Small Procurement for Construction

Fairbanks Pioneer Home Kitchen Flooring & Tub Room Modernizations

Project No. AJF 19-02C

You are invited to submit a quote to: Provide all labor, supervision, permits, equipment and materials to modernize the tub rooms and replace the kitchen flooring in the dish room area as per the plans and specifications. As a Bid Alternate, please provide a quote to replace the commercial dishwasher.

Bids must be received before 2:00 PM local time February 13, 2019 at the address listed in the bid documents.

Bidders are encouraged to attend a pre-bid walkthrough which will be held at 2:00pm January 31, 2019. The Fairbanks Pioneer Home is located at 2221 Eagan Avenue Fairbanks, AK 99701

The project completion date is June 30, 2019

Engineer's Estimate: Less than \$154,000

Please direct all project or site related inquiries to Mark Moon, Project Manager at (907) 269-7812.

Issued: January 23, 2019

Small Procurement for Construction

Fairbanks Pioneer Home Kitchen Flooring & Tub Room Modernizations

Project No. AJF 19-02C

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Issued: January 23, 2019



STATE OF ALASKA DEPARTMENT OF HEALTH & SOCIAL SERVICES FMS FACILITIES

INVITATION FOR QUOTES FOR A SMALL PROCUREMENT (CONSTRUCTION RELATED)

[per AS 36.30.320(a)]

Project Name & No.:	Procurement Agency and Address:				
Fairbanks Pioneer Home	Dept. of Health & Social Services				
Kitchen Flooring & Tub Room Modernizations	FMS Facilities				
# AJF 19-02C	3601 C St., Suite 578 Anchorage, AK 99503				
Location: 2221 Eagan Ave. Fairbanks, AK 99701	(907) 269-7812				
Location. 2221 Lagaii Avc. Panoanks, AR 99701	Mark.Moon@alaska.gov				
Contracting Officer: Amy Burke, FMS Facilities Chief	Date of Issuance: January 23, 2019				
DESCRIPTION OF WORK, REQUIRED COMPLETION DATE, LISTING OF A	TTACHMENTS:				
Provide all labor, supervision, permits and materials per Dish Room, Two Tub Rooms and Repair Piping at the Fai					
Quotes that exceed \$25,000 must file mandatory bi-weekly certified pay DOLWD requirements. Work shall be completed by <u>June 30, 2019</u> .	rolls - See SPECIAL NOTICE TO BIDDERS for other pertinent				
To be considered responsive, Contractor <u>must</u> provide a current copy of the Submittal.	ir Business license and <u>any required</u> registrations with their Quote				
The Project cost estimate is: ☐ under \$ 10,000 ☐ \$ 10,001 - \$ 50,000 ☐ *Base Bid Quotes in excess of \$200,000					
Davis-Bacon Wages (Title 36.05) will be required if the project cost is \$25,000 certified payrolls will also be required by the contractor.	0 or more. At that amount, online filing with Dept. of Labor and				
The following insurance is required: X Workers Comp X General Liability X Automobile					
Quotes for furnishing all labor, equipment and materials and performing all work before 2:00 pm local time on the 13th day of February, 2019. Late quotes campa submit quotes and will not be discriminated against on the grounds of race which results from this invitation. Any errors, omissions, or questions pertaining for additional documents, or inquiries pertaining to site conditions or scheduled Specialist at: 3601 C St Suite 578 Anchorage, AK 99503; Email: mark.m Fax: (907) 465-2607. Applicable provisions of AS 36.30 and 2 AAC 12	nnot be accepted. Disadvantaged Business Enterprises (DBE's) e, color, national origin or sex in consideration for an award ng to solicitation procedures or project requirements, requests d visits must be made to: Mark Moon, Building Management noon@alaska.gov; Telephone: (907) 269-7812;				
SUBMITTAL OF QUOTES: Quotes for this project must be submitte themselves with the <i>Instructions to Bidders</i> , page 2 of this form, prior to submit					
- VERBAL QUOTES SHALL BE GIVEN TO					
AT THE ABOVE NOTED TELEPHONE NUMBER, PRIOR TO THE	E STATED DEADLINE.				
- WRITTEN QUOTES, INCLUDING AMENDMENTS OR WITHDRAWALS, MUST BE RECEIVED PRIOR TO THE ABOVE NOTED DEADLINE. QUOTES MUST BE SUBMITTED ON FORM SPC-002, QUOTE SUBMITTAL, ATTACHED.					
Written quotes may be submitted by Fax, hand delivered, mailed in a sealed en is only assured for sealed quotes. Mailed quotes must allow time for delivery a					
Quote for Project:	Procurement Agency Address:				
Name: <u>Kitchen Flooring & Tub Room Modernizations</u>	Dept. of Health & Social Services				
Number: <u>AJF 19-02C</u> Attn: Mark Moon, Project Administrator	FMS Facilities 3601 C St, Suite 578, Anchorage, AK 99503				
•					
Quote amendments or withdrawals must be made in writing to the individual received prior to the time for quote submittal	of the Procurement Agency receiving the quotes, and must be				



STATE OF ALASKA DEPARTMENT OF Health & Social Services, Facilities

INVITATION FOR QUOTES FOR A SMALL PROCUREMENT (CONSTRUCTION RELATED)

INSTRUCTIONS TO BIDDERS

The State of Alaska desires that all contractors submitting quotes on construction contracts are given a fair and equal opportunity to compete. Contractors are required to follow these instructions:

REVIEW THE PROJECT DOCUMENTS: Most construction projects in excess of \$1,000 will have some type of written documentation prepared expressly for the work. If you are asked to submit a quote and no written information has been provided, you should ask the procurement agency for written documentation. If the scope of services has been described to you verbally, and you are selected for contract award, you must ensure that the information of the services to be performed (scope of work) is put in writing prior to accepting the contract. When providing a quote, carefully review and consider all materials related to the solicitation and work of the contract. By submitting a quote the contractor warrants that they are familiar with the project requirements, have visited or otherwise examined the site, and are aware of the conditions to be encountered. Contractors can verify the contents and completeness of their documents by contacting the procurement agency individual named on the front of this form.

SUBMITTING THE QUOTE: The quote must be submitted in one of the following formats as called for in the invitation:

- 1. **VERBAL** in addition to the quote, the contractor must provide the following information: (1) their valid Alaska Business License number, (2) if applicable, proof that they are an Alaskan Veteran Bidder, (3) if applicable, valid Contractor's Registration number, (4) their intended use of Alaskan products, (5) the carrier's name and policy number for their Workers' Comp Insurance (or a statement of sole proprietorship, if applicable), (6) mailing address, and (7) the Employer (Tax) Identification Number or Social Security Number. The Procurement Agency will enter this information on the quote schedule.
- 2. **WRITTEN** if a written quote is solicited, the contractor must complete, in ink or typewritten, the *Small Procurement Quote Submittal Form* SPC-002. Failure to acknowledge receipt of addenda or to execute the form correctly and completely may disqualify the quote.

NOTE: The Department of Labor requires a contractor to be licensed and registered for the required type of work prior to submitting a quote. If the procurement agency determines that the contractor is improperly registered or licensed, their quote may be deemed nonresponsive.

<u>SUBCONTRACTOR LISTING:</u> Subcontractors intended to be utilized on this contract must be listed in the response to the solicitation. Work shall not be awarded to any subcontractor without prior approval from the procurement agency. Subcontractors may be added or removed only as approved by the procurement agency.

DETERMINATION OF THE LOWEST RESPONSIBLE QUOTE AND CONTRACT AWARD: Following receipt and determination of all **responsive** oral, written or sealed quotes, the procurement agency will compare the quotes and determine the lowest quote. If the procurement agency discovers a discrepancy between the unit price and the extended amount; the unit price will prevail. Conditioned quotes, unless expressly requested, will not be considered. When the quote schedule is composed of a basic amount with alternates, the procurement agency will base its determination of the low quote and the amount of the contract award solely upon those quotes, basic and alternates that are priced within the extent of available construction funds. Alternates will be considered for award in the order listed, except that if the order of award is not affected, the award may include any combination of funded alternates, or none, as may be in the best interest of the procurement agency.

When determining the lowest quote, the procurement agency will also give a 5% Alaska Bidder, 5% Alaska Veteran preference, and an appropriate Alaska Products preference to quotes designating the applicability of any of these preferences. To qualify for the Alaska Bidder preference (per AS 36.30.170) the person must (1) hold a current Alaska business license, (2) submit the quote for goods or services under the name appearing on the business license, (3) has maintained a place of business within the state staffed by the bidder, or an employee of the bidder, for a period of six months immediately preceding the date of the quote; (4) is incorporated or qualified to do business under the laws of the state, is a sole proprietorship and the proprietor is a resident of the state, is a limited liability company organized under AS 10.50 and all members are residents of the state, or is a partnership under AS 32.05 or AS 32.11 and all partners are residents of the state; and, (5) if a joint venture, is composed entirely of venturers that qualify under (1) - (4) of this subsection. AS 36.30.170(b). If a bidder qualifies for the Alaska Bidder preference, under AS 36.30.170(b), and is a qualifying entity as defined in AS 36.30.175, they will be awarded an Alaska Veteran preference of five percent (5%). The preference will be given to a (1) sole proprietorship owned by an Alaska Veteran; (2) partnership under AS 32.06 or AS 32.11 if a majority of the partners are Alaska Veterans; (3) limited liability company organized under AS 10.50 if a majority of the members are Alaska Veterans; or (4) corporation that is wholly owned by individuals and a majority of the individuals are Alaska Veterans.

Upon request, a booklet fully describing the Alaska Products preference program is available from the procurement agency.

The procurement agency will make a determination of **responsibility** as required by 2 AAC 12.500. If the lowest contractor is declared responsible, the procurement agency will execute the *Notice of Award / Notice to Proceed*. Form SPC-003, and send it to the contractor for acknowledgement. If the lowest contractor is found to be nonresponsible, this process will be repeated with the second lowest contractor -- and so on until the lowest responsive and responsible contractor is determined.

NOTICE OF AWARD AND PROTEST: A written notice will be provided on all awards exceeding \$25,000 (2 AAC 12.400(h)). All protests must be filed with the Commissioner of the procurement agency (or designee) and copied to the Procurement Officer. Protest procedures are described in AS 36.30.560 and 2 AAC 12.695. The extent of the protest remedy is limited to quote preparation costs (AS 36.30.585).

NOTICE TO BIDDERS

In order for bids to be considered responsive, the following items must be completed on the Small Procurement Quote Submittal (Construction Related) form (Form SPC-002):

- 1. Complete all prices and figures as indicated on the Quote Submittal (Form SPC-002) portion of the form, unless indicated otherwise;
- 2. Complete the Contractor's firm name and authorized signature lines;
- 3. Enter a valid Alaska Business License number and, if applicable, a valid Contractor's Registration number.
- 4. Include a current copy of your Contractors license and any required registrations with the Small Procurement Quote Submittal (Construction Related) form (Form SPC-002)

ALASKAN PREFERENCES

Alaska Bidders Preference

To qualify for the Bidder's Preference (per AS 36.30.170), the bidder must:

- 1. Hold a current Alaska Business License;
- 2. Submit the bid under the name appearing on the license;
- 3. Has staffed and maintained a place of business in Alaska for the previous six (6) months;
- 4. Is incorporated or qualified to do business under the laws of the State.

Alaska Veterans Preference

To qualify for the Veterans Preference (per AS 36.30.175), the bidder must:

- 1. Qualify for the Alaska Bidder's Preference
- 2. Add value by actually performing the services or have prior experience in selling the supplies
- 3. Qualify as an Alaska Veteran
- 4. The value of the preference cannot exceed \$5,000.

Alaska Products Preference

If applicable, the use of Alaska Products can be claimed on the Alaska Products Preference Worksheet (Form SPB –007). Eligible products can be obtained by contacting the local Department of Commerce & Economic Development office. **WARNING:** If the use of Alaska Products is claimed, the contractor will be mandated to use the specified products in the performance of the contract.

The Adjusted Basic Bid amount will be used for the determination of the low responsive bidder. Once determined, the contract will be awarded for the Total Basic Bid Amount.

CONTRACT AWARD

The apparent low responsive bidder will be required to submit the following documents prior to Contract Award:

- 1. Project specific requirements, if any, as noted on the Invitation for Quotes;
- 2. A Certificate of Insurance indicating the insurance coverage outlined on the Invitation for Quotes;
- 3. Current copies of both the valid Alaska Business License and, if applicable, a copy of the valid Contractor's Registration; and
- 4. List all subcontractors to be used on the project (form included in bid packet).
- 5. Copy of a completed Notice of Work form filed with the Dept. of Labor **if required** (see Special Notice to Bidders in packet).



STATE OF ALASKA DEPARTMENT OF HEALTH & SOCIAL SERVICES FMS FACILITIES

SMALL PROCUREMENT QUOTE SUBMITTAL (CONSTRUCTION RELATED)

[per AS 36.30.320(a)]

Project Name & No.: Fairbanks Pioneer Home Kitchen	Procurement Agency and Address: State of Alaska, DHSS/FMS Facilities			
Flooring and Tub Room Modernizations # AJF 19-02C	3601 C Street, Suite 578			
Treesing with the recommendation with the re-	Anchorage, AK 99503			
	(907) 269-7812 / Fax: (907) 334-2689			
Location: 2221 Eagan Ave. Fairbanks, AK 99701	Mark.Moon@alaska.gov			
	Date of Issuance: January 23, 2019			
Contracting Officer: Amy Burke, FMS/FAC Chief	Bid is Due: February 13, 2019 @ 2:00 pm			
QUOTE: Provide all labor, supervision, permits and materials	ner the Plans & Specifications to repoyate the			
Dish Room, Two Tub Rooms and Repair Piping at the Fairbanks				
a. Lump Sum Total Basic Bid	\$			
b. Additive Alternate #1 Bid	\$			
c. Alaska Bidder's Preference - (5% of Basic Bid)	\$			
d. Alaska Bidder's Preference for 5% of Additive Alter	nate #1 \$			
e. Alaska Veterans Preference - 5% of Basic Bid (not to exceed \$5,000) \$				
f. Alaska Veterans Preference – 5% of Basic Bid + Add (not to exceed \$5,000)	\$			
g. Alaska Products Preference - (Attach worksheet(s))	\$			
h. Adjusted Basic Bid: (a - c - e - g)	\$			
i. Adjusted Basic Bid + Adjusted Add. Alt #1 (a + b -	c - d - f - g)			
	\$			
I have reviewed the bid documents, with addenda, and required for Project number <u>AJF 19-02C</u> . I agree to furnish all n above amount(s). The Work shall be accomplished in a professional state.	ecessary labor, materials, and equipment for the			
Contractor	Contractor Reg. No.			
Authorized Signature	Title			
Address				
Business License #				
Alaska Vataran Drafaranga	■ Alaska Products Pref. (worksheet)			
Procurement Officer:				
Date of Receipt of Bid:				

Offernr to Complete this Dartinn ---



STATE OF ALASKA DEPARTMENT OF HEALTH & SOCIAL SERVICES

NOTICE OF AWARD (NOA) SMALL PROCUREMENT CONTRACT (CONSTRUCTION RELATED)

[per AS 36.30.320]

Project Nar	ne & No.:		Procurement Ag	gency and Address:	
Fairbanks Pioneer Home Kitchen Flooring & Tub Room Moderr # AJF 19-02C Location: 2221 Eagan Ave, Fairbanks, AK 99701		izations	Dept. of Health & Social Services FMS Facilities 3601 C St., Suite 578 Anchorage, AK 99503 (907) 269-7812 Mark.Moon@alaska.gov		
Contracting			Date of Issuance	e:	
Officer's Sig	gnature: Amy Burke, FMS/Facilities Chief				
	***	*****	*		
TO:		AJF 19-020 including th	d to Basic Bid of: te basic quote e quote item(s):	The Contractor Must Submit: Insurance Bonding* Certified Wages** Subcontractor List***	
** <u>Certified</u>) *** <u>Subcontral</u> Your quote the Work d	- If contract bid amount exceeds \$80,000, Performa Wages – Contracts over \$25,000 require bi-weekly of Instructions to Bidders form) actor List – Contractor will be required to submit a ein the amount of \$submit described in the attached Invitation for Il Procurement Quote Submittal (Form	Certified Paya Subcontracto tted on Quotes (F	or list if they are utilized, is a corm SPC-001),	the Dept. of Labor (see Special seed secepted for performance of and the quote as submitted	
email to: 1	actor must sign, date, and return this downton the Award will be deemed made.				
The Work	of this contract may not commence un	ntil the No	tice to Proceed	(NTP) is issued.	
Contractor'	s Signature of Contract Award Accepta	ance:		Date :	
	NOTICE TO UNSELECTED OFFI	ERORS O	N PROJECTS	OVER \$ 25,000	
	e with the protest rights afforded under 2 AAC nose individuals and businesses who submitted				



STATE OF ALASKA DEPARTMENT OF HEALTH & SOCIAL SERVICES

NOTICE OF AWARD (NOA) SMALL PROCUREMENT CONTRACT (CONSTRUCTION RELATED)

GENERAL CONDITIONS

[Construction Procurement under AS 36.30.320]

These terms, conditions and requirements apply to the Contract Documents describing the Work for the Project. If any provision of these Contract Documents is declared by a court to be illegal or in conflict with any law, the validity of the remaining provisions and the ensuing rights and obligations of the Parties to the contract shall not be affected.

Whenever used in these Contract Documents, the following terms shall have the indicated meaning. Any term not so defined shall have its ordinary meaning.

- Approved or Approval means written approval by the Procurement Officer or authorized representative.
- Award means the written acceptance of the lowest responsive and responsible quote by the Procurement Agency.
- Contract Documents includes the *Invitation for Quotes for a Small Procurement*, Form SPC-001 (with Instructions if issued), the *Notice of Award / Notice to Proceed*, Form SPC-003, any addenda, written changes, or attachments as noted in the description of the Work.
- Procurement Officer the person authorized to enter into and administer the contract on behalf of the Procurement Agency.
- Parties to the Contract includes the Procurement Agency, the owner Agency representing the State of Alaska, and the Contractor, being the entity contracting with the owner Agency for performance of the Work.
- Project The total construction, of which the Work performed under the Contract, is the whole or part.
- Project Manager the Procurement Officer's authorized representative, responsible for Contract administration.
- Work is the act of, and the result from, performing services, furnishing labor, furnishing and incorporating materials and equipment into the Project and performing other duties and obligations, all as required by the Contract Documents.
- 1. The Procurement Officer (or authorized representative) has the authority to make findings, determinations and decisions with respect to the contract; to Approve materials, Work and payment therefore; and to modify or terminate the contract on behalf of the Procurement Agency.
- 2. The Contractor shall have sole responsibility for the means, methods, sequences, or procedures of construction and safety precautions related to the Project. The Contractor shall conduct all Work in such a manner that protects the public and State resources.
- 3. The Contractor must comply with all applicable laws, regulations, codes, ordinances and written directives issued by the Procurement Officer. In addition, the Contractor must obtain applicable licenses and permits; provide supervision, labor, tools, and new materials (except as may otherwise be provided by the Procurement Agency); and utilize Alaska Products and Wood Products when applicable (see AS 36.05.010 & AS 36.30.322).

 Hazardous Materials: The CONTRACTOR is to be aware under 29 CFR 1926.1101(k)(2)(ii) Construction Industry Standards, any building or facility constructed prior to 1980 may contain suspected Hazardous Materials. All known or perceived known Hazardous Materials information will be provided by the DEPARTMENT's facility staff to the CONTRACTOR upon request. Any new suspected Hazardous Materials encountered by the CONTRACTOR shall be made known to the DEPARTMENT within 3 business days of discovery. Once notified the DEPARTMENT will have an Environmental Assessment completed to verify if hazardous materials exist.
- 4. The Contractor shall not award Work to any subcontractor without prior Approval from the Procurement Officer.
- 5. The Procurement Agency reserves the right to make written changes to the Contract Documents for modifications within the general scope of the Work.
- 6. Any act or occurrence be it a result of an emergency, differing site condition or change order, which may form the basis of a claim for a price or time adjustment must be reported immediately to the Procurement Officer.
- 7. The Department of Labor and Workforce Development, Wage and Hour Administration, must be notified in accordance with AS 36.05.010 and AS 36.05.030 if the resulting contract for repairs or construction exceeds \$25,000. The Contractor must comply with the requirements noted within the Department of Labor packet entitled, "Laborers' & Mechanics' Minimum Rates of Pay." To obtain a copy of the referenced packet, contact the Procurement Agency or the Department of Labor.
- 8. The primary contractor working on public construction projects with an amount of \$25,000 or more must file a Notice of Work and pay a one percent fee based on the estimated value of work performed by the prime contractor and one percent of the value of each subcontractor's price, to the Department of Labor and Workforce Development, Wage and Hour Administration (DOLWD) The maximum fee is \$5,000.00. The notice and fees must be filed with the DOLWD before work commences on the project.
 - Upon completing the construction project, the primary contractor must file a Notice of Completion (NOC) and make payment of any additional fees due to increases in the contract amounts due the primary contractor. Contractor must file the Notice of Work and Notice of Completion online. Please call the Dept. of Labor for instructions and/or assistance in filing (http://labor.alaska.gov/lss/whhome.htm).
- 9. The Contractor shall indemnify, save harmless, and defend the Procurement Agency, its agents and its employees in accordance with Appendix B1. Furthermore, the Contractor shall, prior to the Award of the contract, provide proof of Workmen's Compensation, General Liability, and Automobile Insurance in amounts as applicable under Appendix B1. These coverages shall remain in force for the duration of the Contract.
- 10. The Contractor shall remedy all defects in materials or workmanship that develop within a period of one year from the date of final payment.
- 11. The Procurement Agency will make final payment to the Contractor following approval of completion of all Work and the Contractor's submittal of all releases, warranties, record documents, permits and invoices. Liens or other claims relating to the Project may be withheld from final payment if written notice is first given to the Contractor. Acceptance of the final payment will constitute the Contractor's waiver to future claims.
- Any dispute arising out of this Contract, which cannot be satisfactorily remedied by the Parties to the Contract, shall be resolved under AS 36.30.620 - 699.

Form SPC-003 Page 2 of 4 Revised 08/03

APPENDIX B¹ BONDS, INDEMNITY AND INSURANCE

Article 1. Bonds

If Required and Noted on Page one of the Notice of Award Form SPC-003, the CONTRACTOR shall furnish Performance and Payment Bonds, each in an amount as shown on the Contract as security for the faithful performance and payment of all CONTRACTOR'S obligations under the Contract Documents. These bonds shall remain in effect for one year after the date of Final Acceptance and until all obligations under this Contract, except special guarantees as per 12.7, have been met. All bonds shall be furnished on forms provided by the DEPARTMENT (or copies thereof) and shall be executed by such Sureties as are authorized to do business in the State of Alaska. The Contracting Officer may at his option copy the Surety with notice of any potential default or liability.

At the option of the CONTRACTOR, bonds may be provided by individual Surety the adequacy of which shall be determined by the Contracting Officer. Any costs incurred by the CONTRACTOR or individual Surety shall be borne by the CONTRACTOR. Where individual Sureties are used, two individual Sureties must each provide the State of Alaska with security equal to the amount of each bond by one, or a combination of, the following methods:

- a. Escrow account in the name of the DEPARTMENT for the duration of the Contract. Acceptable securities would include, but not necessarily be limited to: Cash; treasury notes; bearer instruments having a specific value, or; money market certificates.
- b. First *Deed of Trust* with the DEPARTMENT designated as beneficiary, against the unencumbered value of the real property located within the State of Alaska or an agreement by any second party, including deeds of trust, mortgage, lien or judgment interests to subrogate their interests to that of the State of Alaska in the real property which has been offered by the individual Surety.

A title insurance policy with the State of Alaska as a named beneficiary and a current (within 3 months) professional appraisal or assessed valuation will be required to ascertain the true value of the property offered as collateral. If buildings or other valued improvements are involved then fire and casualty insurance with the State of Alaska as a named insured and in limits and coverages acceptable to the Contracting Officer shall be required. The appraiser shall acknowledge in writing that the appraisal is prepared for the benefit of the DEPARTMENT and the DEPARTMENT has the right to rely on its contents. This *Deed* must be recorded in the recording office where the property is located.

With respect to clauses "a" and "b" above, the *Deed of Trust* or other accepted security shall not be released until 12 months after Final Acceptance of the Project and settlement of all outstanding claims.

Replacement of Bond and Surety:

If the Surety on any bond furnished in connection with this Contract is declared bankrupt or becomes insolvent or its right to do business is terminated in any state where any part of the Project is located or it ceases to meet the requirements of paragraph 5.2, or otherwise becomes unacceptable to the DEPARTMENT, or if any such Surety fails to furnish reports as to his financial condition as requested by the DEPARTMENT, the CONTRACTOR shall within five days thereafter substitute another bond and Surety, both of which must be acceptable to DEPARTMENT.

An individual Surety may be replaced by a corporate Surety during the course of the Contract period. If the Surety desires to dispose of the collateral posted, the DEPARTMENT may, at its option, accept substitute collateral.

Form SPC-003 Page 3 of 4 Revised 08/03

Article 2. Indemnification

The Contractor shall indemnify, hold harmless, and defend the contracting agency from and against any claim of, or liability for error, omission or negligent act of the Contractor under this agreement. The Contractor shall not be required to indemnify the contracting agency for a claim of, or liability for, the independent negligence of the contracting agency. If there is a claim of, or liability for, the joint negligent error or omission of the Contractor and the independent negligence of the Contracting agency, the indemnification and hold harmless obligation shall be apportioned on a comparative fault basis. "Contractor" and "Contracting agency", as used within this and the following article, include the employees, agents and other contractors who are directly responsible, respectively, to each. The term "independent negligence" is negligence other than in the Contracting agency's selection, administration, monitoring, or controlling of the Contractor and in approving or accepting the Contractor's work.

Article 3. Insurance

Without limiting Contractor's indemnification, it is agreed that Contractor shall purchase at its own expense and maintain in force at all times during the performance of services under this agreement the following policies of insurance. Where specific limits are shown, it is understood that they shall be the minimum acceptable limits. If the Contractor's policy contains higher limits, the state shall be entitled to coverage to the extent of such higher limits. Certificates of Insurance must be furnished to the Contracting Officer prior to beginning work and must provide for a 30-day prior notice of cancellation, non-renewal or material change of conditions. Failure to furnish satisfactory evidence of insurance or lapse of the policy is a material breach of this contract and shall be grounds for termination of the Contractor's services. All insurance policies shall comply with, and be issued by insurers licensed to transact the business of insurance under AS 21.

- <u>3.1 Workers' Compensation Insurance</u>: The Contractor shall provide and maintain, for all employees engaged in work under this contract, coverage as required by AS 23.30.045, and; where applicable, any other statutory obligations including but not limited to Federal U.S.L. & H. and Jones Act requirements.
 - > The policy must waive subrogation against the State.
- <u>3.2 Commercial General Liability Insurance</u>: covering all business premises and operations used by the Contractor in the performance of services under this agreement with minimum coverage limits of \$300,000, combined single limit per occurrence.
 - > The State of Alaska must be named as additional insured.
- 3.3 Commercial Automobile Liability Insurance: covering all vehicles used by the Contractor in the performance of services under this agreement with minimum coverage limits of \$300,000, combined single limit per occurrence.

Form SPC-003 Page 4 of 4 Revised 08/03



STATE OF ALASKA DEPARTMENT OF HEALTH & SOCIAL SERVICES

NOTICE TO PROCEED (NTP) SMALL PROCUREMENT CONTRACT (CONSTRUCTION RELATED)

[per AS 36.30.320]

		Due comment A compressed Addresses
Project Name & No.:		Procurement Agency and Address:
<u>Fairbanks Pioneer Home</u>		Dept. of Health & Social Services
Kitchen Flooring & Tub Room Moderniza	<u>tions</u>	FMS Facilities 3601 C St., Suite 578
# AJF 19-02C		Anchorage, AK 99503
Location: 2221 Eagan Ave, Fairbanks, AK 99701		(907) 269-7812 Mark.Moon@alaska.gov
		<u>wark.woon@ataska.gov</u>
		Date of Issuance:
Project		
Manager: Mark Moon, Building Management Special	ist	

		The Contractor Must Submit:
TO:	FOR:	d to Basic Bid of: Insurance
	AJF 19-02C	
		e basic quote e quote item(s): Certified Wages**
		Subcontractor List***
You have successfully met the requirements Procurement Agency and Dept. of Labor and Word Upon receipt of this document, the Contractor method with the terms of the contract. The Work of this days following the date of signature by the Procuping the Contract) and all Work of the Contract must Send all invoices to the address above or email the	rkforce De nay begin varies contract rurement Office st be complete.	work on the subject project, in accordance must commence within 10 calendar efficer, shown above (i.e., the effective date lete on or before June 30, 2019
** * * * * * * * * * * * * * * * * * *	ance & Payme Certified Payro	nt Bonds will be required for 50% of bid amount. oll be submitted to the Dept. of Labor (see Special



STATE OF ALASKA DEPARTMENT OF HEALTH & SOCIAL SERVICES

ALASKA PRODUCTS PREFERENCE WORKSHEET SMALL PROCUREMENT CONTRACT (CONSTRUCTION RELATED)

(See Instructions on back)

Project Name: <u>I</u>	Fairbanks Pioneer Hom	<u>ne -Kitchen Flooring</u>	g & Tub Room Mo	<u>odernizations</u>
Project Number	: <u>AJF 19-02C</u>			
Procurement Ag	gency: <u>FMS Facilities</u>	Contracto	r:	
PRODUCT	MANUFACTURER	CLASS & PREFERENCE PERCENTAGE	TOTAL DECLARED VALUE	REDUCTION AMOUNT

TOTAL

of ALASTE

STATE OF ALASKA DEPARTMENT OF HEALTH & SOCIAL SERVICES

ALASKA VETERAN'S PREFERENCE AFFIDAVIT

In response to the Invitation to Bid for:

<u>Fairbanks Pioneer Home Kitchen Flooring & Tu</u>	ub Room Modernizations #AJF 19-02C,					
I certify under penalty of perjury that(Name) qualifies for the Alaska Veteran's Preferer	nce under the following conditions:					
(a) If a bidder qualifies under AS 36.30.170(b) a five percent bid preference shall be applie \$5,000). In this subsection, "qualifying entity	d to the bid price (preference may not exceed					
 (1) Sole proprietorship owned by an Alaska Veteran; (2) Partnership under AS 32.06 or AS 32.11 if a majority of the members are Alaska Veteran's; (3) Limited liability company organized under AS 10.50 if a majority of the individuals are Alaska Veterans. (4) Corporation that is wholly owned by individuals and a majority of the individuals are Alaska veterans. 						
(b) To qualify for a preference under this section, a bidder must add value by the bidder itself actually performing, controlling, managing and supervising a significant part of the services provided, or the bidder must have sold supplies of the general nature solicited to other state agencies, governments, or the general public.						
(c) In this section, "Alaska Veteran" means an i	ndividual who is a:					
(1) Resident of this state; and(2) Veteran; means an individual who:						
(A) Served in the:						
States armed forces; or						
Authorized Signature						
Printed Name	Date					

Form 06D-17 (June 2012) Page 1 of 1

INSTRUCTIONS FOR ALASKA PRODUCTS PREFERENCE WORKSHEET

Special Notice: All procurements, except those funded from Federal sources, shall contain Contract provisions for the preference of Alaska products. To be considered for the Alaska Product Preference, each product listed by the Bidder on this worksheet must have current certification from the Alaska Products Preference Program at the time of Bid Opening. A product with expired certification at the bid opening date will not be considered eligible. Products that are not specified for use on the project will not be considered eligible. The Alaska Product Preference Program List of certified products is available online at: <a href="http://www.commerce.state.ak.us/ded/dev/prodpref/p

BIDDERS INSTRUCTIONS:

- A. General. The contracting Agency may request documentation to support entries made on this form. False presentations may be subject to AS 36.30.687. All Bidder's entries must conform to the requirements covering bid preparations in general. Discrepancies in price extensions shall be resolved by multiplying the declared total value times the preference percentage and adjusting any resulting computation(s) accordingly.
- B. Form Completion BASIC BIDS.
 - (1) Enter project number and name, the words "Basic Bid" and the CONTRACTOR'S name in the heading of each page as provided.
 - (2) The Bidder shall compare those candidate products appearing on the preference listing (see Special Notice comments above) against the requirements of the technical specifications appearing in the contract documents. If the Bidder determines that a candidate product can suitably meet the contract requirements, then that product may be included in the worksheet as follows.
 - (3) For each suitable product submitted under the "Basic Bid" enter:
 - The product name, generic description and its corresponding technical specification section number under the heading "PRODUCT",
 - The company name of the Alaska producer under the heading "Manufacturer", and
 - The product class (I, II, or III) and preference percentage (3, 5, or 7% respectively) under the "CLASS/% heading.
 - (4) For each product appearing on the list and to be utilized by the CONTRACTOR enter:
 - Under the heading "TOTAL DECLARED VALUE" the manufacturer's quoted price of the product, (caution: this value is to be the manufacturer's quoted price at the
 place of origin and shall not include costs for freight, handling or miscellaneous charges of incorporating the product into the Work,) and
 - The resulting preference i.e. the preference percentage times the total declared value amount under the heading "REDUCTION AMOUNT".
 - (5) Continue for all "suitable" basic bid products. If the listing exceeds one page enter the words "Page # __ SUB" in front of the word "TOTAL" and on the first line of the following pages enter "SUBTOTAL OF REDUCTION AMOUNT FROM PREVIOUS PAGE".
 - (6) On the final page of the listing enter "BASIC BID PREFERENCE GRAND" immediately before the word "TOTAL".
 - (7) Total the entries in the "REDUCTION AMOUNT" column for each page by commencing at the first entry for that page. If a continuation page exists, ensure that the subtotal from the previous page is computed into the running total. Number pages as appropriate.
 - (8) Compute a Grand Total for the Basic Bid Preference. Enter the amount on the final page of the worksheet. (Note: When solicitations require written bids this amount should also be entered on line "C" of the Basic Bid Schedule.) Submit worksheet(s) with the Bid Schedule.

C. Form Completion – ALTERNATE BIDS.

- (1) Enter project number and name, the words "ALTERNATE BID #__", and CONTRACTOR'S name in the heading of each page as provided.
- (2) On the first entry line enter "ADDITIONAL ALASKA PRODUCTS FOR ALTERNATE BID #__", and repeat procedures 2 through 5 under part B these Bidder's instructions except that references to "Basic Bid" shall be replaced with the words "Alternate Bid #__."
- (3) Following the listing of all additional Alaska products enter the words "ADDITIONAL PRODUCTS PREFERENCE FOR ALTERNATE BID #__ SUBTOTAL" and enter a subtotal amount for all additional products as listed. Subtotal amount to be determined by adding all additional product entries in the "REDUCTION AMOUNT" column.
- (4) Skip three lines and enter "LESS THE FOLLOWING NON-APPLICABLE ALASKA PRODUCTS:
- (5) Beginning on the next line, enter the product name and manufacturer of each Alaska Product appearing on the "Basic Bid" listing which would be deleted or reduced from the Project should the "Alternate Bid" be selected. Details of entry need only be sufficient to clearly reference the subject product. (i.e. "Pre-hung doors by Alaska Door Co., Anchorage.") Products being reduced shall specify the amount of the reduction. Should no products require deletion enter "None". When a product is listed as a "NON-APPLICABLE ALASKA PRODUCT" for this alternate bid and if under the basic bid the Bidder received a preference on his basic bid as a result of that product, then the applicable entries under the headings "TOTAL DECLARED VALUE" and "REDUCTION AMOUNT" (for each product and from the basic bid listing) shall also be entered into the corresponding headings of this form. Where only a portion of the products has been deleted, the entry (which will differ from those on the basic bid listing) may be "pro-rated" or as otherwise substantiated.
- (6) Following the listing of all non-applicable Alaska products enter the words "NON-APPLICABLE PRODUCTS PREFERENCE FROM BASIC BID ____ SUBTOTAL" and enter a subtotal amount for all non-applicable products listed. Subtotal amount to be determined by adding all non-applicable entries in the "REDUCTION AMOUNT" column.
- (7) At the bottom of the final page enter the words "ALTERNATE BID # PREFERENCE GRAND" immediately before the word "TOTAL".
- (8) Compute a Grand Total for the Alternate Bid Preference (for Alternate #___) by subtracting the non-applicable product preference subtotal from the additional product preference subtotal. Enter on the final page. (Note: When solicitations require written bids this amount should also be entered on line "C" of the Alternate Bid Schedule.) Submit separate worksheet(s) with each Alternate Bid.



STATE OF ALASKA DEPARTMENT OF HEALTH & SOCIAL SERVICES-FMS FACILITIES

PAYMENT BOND SMALL PROCUREMENT CONTRACT

Fairbanks Pioneer Home - Kitchen Flooring & Tub Room Modernizations # AJF 19-02C

KNOW ALL MEN BY THESE PRESENTS:

That	of	, as Principal,
and	of	, as Surety,
	and and held unto the State of Alaska in the penal sum of	
the navmer	Dollars (\$), good and and the whereof, well and truly to be paid to the State of Alas	ka we hind ourselves our heirs successors
	administrators, and assigns, jointly and severally, firmly	
Í	, , , , , , , , , , , , , , , , , , , ,	
	the said Principal has entered into a written contract w	
A.D., 20	, for the construction of Fairbanks Pioneer Home	- Kitchen Flooring & Tub Room Modernizations
#AJF 19-02	2C said work to be done according to the terms of said	contract.
Now, THER	EFORE, the conditions of the foregoing obligation is su	ch that if the said Principal shall well and truly
	d complete all obligations and work under said contrac	
	rtment of Transportation and Public Facilities any sum	
	to be due upon completion of the project, then these p	resents shall become null and void; otherwise they
shall remai	n in full force and effect.	
IN WITNES	S WHEREOF, we have hereunto set our hands and sea	ls at
	S WHEREOF, we have hereunto set our hands and sea this day of	A.D., 20
Desire	cipal:	
PIII	cipai	
Add	ress:	
Pho	ne:	
Com	to at Nama	
Cor	ntact Name:	
Bv:		
J		
By:		
Sur	ety:	
Add	ress:	
Pho	ne:	
Cor	tact Name:	<u></u>
D		
By:		
By:		
The offere	d bond has been checked for adequacy under the appli	cable statutes and regulations:
Proc	curement Agency Authorized Representative	 Date

INSTRUCTIONS

- 1. This form, for the protection of persons supplying labor and material, shall be used whenever a payment bond is required. There shall be no deviation from this form without approval from the Department of Health & Social Services, FMS Facilities (DHSS/FMS Facilities), Facilities Chief Contracts Officer.
- 2. The full legal name, business address, phone number, and point of contact of the Principal and Surety shall be inserted on the face of the form. Where more than a single surety is involved, a separate form shall be executed for each surety.
- 3. The penal amount of the bond, or in the case of more than one surety, the amount of the obligation shall be entered in words and in figures.
- 4. Where individual sureties are involved, a completed Affidavit of Individual Surety shall accompany the bond. Such forms are available upon request from the procurement Agency Representative.
- 5. The bond shall be signed by authorized persons. Where such person is signing in a representative capacity (e.g., an attorney-in-fact), but is not a member of the firm, partnership, or joint venture, or an officer of the corporation involved, evidence of authority must be furnished.



STATE OF ALASKA DEPARTMENT OF HEALTH & SOCIAL SERVICES-FMS FACILITIES

PERFORMANCE BOND SMALL PROCUREMENT CONTRACT

Fairbanks Pioneer Home - Kitchen Flooring & Tub Room Modernizations #AJF 19-02C

KNOW ALL MEN BY THESE PRESENTS:

and	That	of	<u>,</u> as Principal,
	and	of	<u>,</u> as Surety,
executors, administrators, and assigns, jointly and severally, firmly by these presents. WHEREAS, the said Principal has entered into a written contract with said State of Alaska, on the			
A.D., 20, for the construction of Fairbanks Pioneer Home - Kitchen Flooring & Tub Room Modernizations #AJF 19-02Csaid work to be done according to the terms of said contract. Now, THEREFORE, the conditions of the foregoing obligation is such that if the said Principal shall well and truly perform and complete all obligations and work under said contract and if the Principal shall reimburse upon demand of the Department of Transportation and Public Facilities any sums paid him which exceed the final payment determined to be due upon completion of the project, then these presents shall become null and void; otherwise they shall remain in full force and effect. IN WITNESS WHEREOF, we have hereunto set our hands and seals at, this day of A.D., 20 Principal: Address:			
A.D., 20, for the construction of Fairbanks Pioneer Home - Kitchen Flooring & Tub Room Modernizations #AJF 19-02Csaid work to be done according to the terms of said contract. Now, THEREFORE, the conditions of the foregoing obligation is such that if the said Principal shall well and truly perform and complete all obligations and work under said contract and if the Principal shall reimburse upon demand of the Department of Transportation and Public Facilities any sums paid him which exceed the final payment determined to be due upon completion of the project, then these presents shall become null and void; otherwise they shall remain in full force and effect. IN WITNESS WHEREOF, we have hereunto set our hands and seals at, this day of A.D., 20 Principal: Address:			•
#AJF 19-02Csaid work to be done according to the terms of said contract. Now, THEREFORE, the conditions of the foregoing obligation is such that if the said Principal shall well and truly perform and complete all obligations and work under said contract and if the Principal shall reimburse upon demand of the Department of Transportation and Public Facilities any sums paid him which exceed the final payment determined to be due upon completion of the project, then these presents shall become null and void; otherwise they shall remain in full force and effect. IN WITNESS WHEREOF, we have hereunto set our hands and seals at			
perform and complete all obligations and work under said contract and if the Principal shall reimburse upon demand of the Department of Transportation and Public Facilities any sums paid him which exceed the final payment determined to be due upon completion of the project, then these presents shall become null and void; otherwise they shall remain in full force and effect. IN WITNESS WHEREOF, we have hereunto set our hands and seals at			
Principal:	perform and complete all obligation of the Department of Transportation determined to be due upon complete	as and work under said contract in and Public Facilities any sum tion of the project, then these pr	and if the Principal shall reimburse upon demand spaid him which exceed the final payment
Principal:	IN WITNESS WHEREOF, we have h	ereunto set our hands and seal	s at,
Address: Phone: Contact Name: By: Principal: Address: Phone: Contact Name: By: By: The offered bond has been checked for adequacy under the applicable statutes and regulations:	this	day of	A.D., 20
Address: Phone: Contact Name: By: Principal: Address: Phone: Contact Name: By: By: The offered bond has been checked for adequacy under the applicable statutes and regulations:			
Phone: Contact Name: By: By: Principal: Address: Phone: Contact Name: By: By: The offered bond has been checked for adequacy under the applicable statutes and regulations:	Principal:		
Phone: Contact Name: By: By: Principal: Address: Phone: Contact Name: By: By: The offered bond has been checked for adequacy under the applicable statutes and regulations:	Address:		
Contact Name:			
By:			
By: Principal: Address: Phone: Contact Name: By: By: The offered bond has been checked for adequacy under the applicable statutes and regulations:	Contact Name:		
Principal:	By:		
Principal:	$Bv^.$		
Address: Phone: Contact Name: By: By: The offered bond has been checked for adequacy under the applicable statutes and regulations:	Бу		
Phone:	Principal:		
Phone:	Address:		
Contact Name: By: By: The offered bond has been checked for adequacy under the applicable statutes and regulations:			
By: By: The offered bond has been checked for adequacy under the applicable statutes and regulations:			
By: The offered bond has been checked for adequacy under the applicable statutes and regulations:	Contact Name:		
The offered bond has been checked for adequacy under the applicable statutes and regulations:	By:		
	Ву:		
Procurement Agency Authorized Representative Date	The offered bond has been checked	d for adequacy under the applic	cable statutes and regulations:
Procurement Agency Authorized Representative Date		. 1D	
	Procurement Agency Author	ized Representative	Date

INSTRUCTIONS

- 1. This form shall be used whenever a performance bond is required. There shall be no deviation from this form without approval from the Department of Health & Social Services, FMS Facilities (DHSS/FMS Facilities), Facilities Chief Contracts Officer.
- 2. The full legal name, business address, phone number, and point of contact of the Principal and Surety shall be inserted on the face of the form. Where more than a single surety is involved, a separate form shall be executed for each surety.
- 3. The penal amount of the bond, or in the case of more than one surety the amount of obligation, shall be entered in words and in figures.
- 4. Where individual sureties are involved, a completed Affidavit of Individual Surety shall accompany the bond. Such forms are available upon request from the procurement Agency Representative.
- 5. The bond shall be signed by authorized persons. Where such person is signing in a representative capacity (e.g., an attorney-in-fact), but is not a member of the firm, partnership, or joint venture, or an officer of the corporation involved, evidence of authority must be furnished.



State of Alaska Department of Administration

Substitute Form W-9

Questions? Email DOA.DOF. Vendor. HelpDesk@alaska.gov

RETURN COMPLETED FORM TO:

Department of Administration Division of Finance P.O. Box 110204 Juneau, AK 99811-0204 Or FAX to: (907) 465-2169

DO NOT send to IRS

Taxpayer Identification Number (TIN) Verification

The Internal Revenue Service requires the State of Alaska to issue 1099 forms when payments to individuals, partnerships or limited liability companies for rents, services, prizes, and awards meet or exceed \$600.00 for the year. An IRS Form 1099 is not required when payments are specifically for merchandise or made to some types of corporations.

Print or Type	Please see a	attachment or	reverse for complete instructions	
Legal Name (as shown on your income tax return)		State of Alas	ka Vendor Number (if known)	
Business Name, if different from above (use if doing business as (DBA) or enter business name of Sole Properties of Primary Address (for 1099 form) PO Box or Number and Street, City, State, Zip + 4	oprietorship) *	Entity Designation (check only one type) Individual / Sole Proprietor Partnership General Corporation Medical Corporation Legal Corporation Limited Liability Company – Individual Limited Liability Company – Partnership Limited Liability Company – Corporation		
Remit Address (where payment should be mailed, if different fre PO Box or Number and Street, City, State, Zip + 4	om Primary Address)	Estate / To Organizat (under Se	ent Entity rust ion Exempt from Tax - Nonprofit ction 501 (a)(b)(c)(d)) (See Instructions) Exempt payee code (if any) Exemption from FATCA Reporting Code (if any)	
Taxpayer Identification Number (TIN) Provide Only One	(If sole proprietorsh	ip provide EI	N, if applicable)	
Social Security Number (SSN)	Employer Ident	ification Nu	nber (EIN)	
If Change of Ownership or Entity Designation	Date of Change	:	.4	
Previous Owner / Business Name	Previous Taxpayer Identification Number (TIN)			
Certification The Internal Revenue Service does not require your consent to any protein withholding. Under penalties of perjury, I certify that: 1. The number shown on this form is my correct taxpayer. 2. I am not subject to backup withholding because (a) I a Internal Revenue Service (IRS) that I am subject to back the IRS has notified me that I am no longer subject to be as I am a U.S. person (including a U.S. resident alien), AN 4. The FATCA code(s) entered on this form (if any) indicate Printed Name	identification number, am exempt from backup tup withholding as a res backup withholding, AN	AND p withholding, ult of a failure to ND	or (b) I have not been notified by the o report all interest or dividends, or (c)	
Signature	Date		Email Address	

Instructions for Completing Taxpayer Identification Number (TIN) Verification (Substitute W-9) -- Page 1

Legal Name

As registered with the Internal Revenue Service (IRS)

- Individuals: Enter First Name MI Last Name
- Sole Proprietorships: Enter First Name MI Last Name
- LLC Single Owner: Enter owner's First Name MI Last Name
- All Others: Enter Legal Name of Business

Business Name

- Individuals: Leave blank
- · Sole Proprietorships: Enter Business Name
- LLC Single Owner: Enter LLC Business Name
- All Others: Complete only if doing business as a DBA

Primary Address

Address where 1099 tax form should be mailed.

Remit Address

Address where payment should be mailed. Complete only if different from primary address.

State of Alaska Vendor Number

Your vendor number is an eight character alphanumeric code assigned to your company in the State of Alaska's accounting system. You may contact us at the email address listed on the form if you do not know your vendor number.

Entity Designation

Check ONE box which describes the type of business entity.

Taxpayer Identification Number

LIST ONLY ONE: Social Security Number OR Employer Identification Number. See "What Name and Number to Give the Requester" at right.

If you do not have a TIN, apply for one immediately. Individuals use federal form SS-05 which can be obtained from the Social Security Administration. Businesses and all other entities use federal form SS-04 which can be obtained from the Internal Revenue Service.

Change of Ownership or Entity Designation

This information is requested to allow taxable income to be reported correctly for both the new and old entities.

Certification

You must cross out item 2 if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN.

Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to furnish your correct TIN to persons who must file information

returns with the IRS to report interest, dividends, and certain other income paid to you, mortgage interest you paid, the acquisition or abandonment of secured property, or contributions you made to an IRA. The IRS uses the numbers for identification purposes and to help verify the accuracy of your tax return. You must provide your TIN whether or not you are required to file a tax return. Payers must generally withhold 28% of taxable interest, dividend, and certain other payments to a payee who does not furnish a TIN to a payer. Certain penalties may also apply.

What Name and Number to Give the Requester

What Name and Number to Give the Requester				
For this type of account:	Give name and SSN of:			
Individual	The individual			
Two or more individuals (joint account)	The actual owner of the account or, if combined funds, the first individual on the account ¹			
Custodian account of a minor (Uniform Gift to Minors Act)	The minor ²			
The usual revocable savings trust (grantor is also trustee)	The grantor-trustee ¹			
So-called trust account that is not a legal or valid trust under state law	The actual owner ¹			
Sole proprietorship or Single- Owner LLC	The owner ¹			
For this type of account:	Give name and EIN of:			
Sole Proprietorship or Single- Owner LLC	The owner ³			
A valid trust, estate, or pension trust	Legal entity ⁴			
Corporation or LLC electing corporate status on Form 8832	The corporation			
Association, club, religious, charitable, educational, or other tax-exempt organization	The organization			
Partnership or multi-member LLC	The partnership			
A broker or registered nominee	The broker or nominee			
Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district or prison) that receives agricultural program payments	The public entity			

- ¹ List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.
- ² Circle the minor's name and furnish the minor's SSN.
- ³ You must show your individual name, but you may also enter your business or "DBA" name. You may use either your SSN or EIN (if you have one).
- ⁴ List first and circle the name of the legal trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) **Note:** If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

Revised 09/29/2015

Instructions for Completing Taxpayer Identification Number (TIN) Verification (Substitute W-9) -- Page 2

Exemptions

If you are exempt from backup withholding and/or Foreign Account Tax Compliance Act (FATCA) reporting, enter in the Exemptions box any code(s) that may apply to you. See Exempt payee code and Exemption from FATCA reporting code below.

Exempt payee code

Generally, individuals (including sole proprietors) are not exempt from backup withholding. Corporations are exempt from backup withholding for certain payments, such as interest and dividends. Corporations are not exempt from backup withholding for payments made in settlement of payment card or third party network transactions.

Note. If you are exempt from backup withholding, you should still complete this form to avoid possible erroneous backup withholding.

The following codes identify payees that are exempt from backup withholding:

- 1. An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2)
- 2. The United States or any of its agencies or instrumentalities
- 3. A state, the District of Columbia, a possession of the United States, or any of their political subdivisions or instru-
- 4. A foreign government or any of its political subdivisions, agencies, or instrumentalities
- 5. A corporation
- 6. A dealer in securities or commodities required to register in the United States, the District of Columbia, or a possession of the United States
- 7. A futures commission merchant registered with the Commodity Futures Trading Commission
- 8. A real estate investment trust
- 9. An entity registered at all times during the tax year under the Investment Company Act of 1940
- 10. A common trust fund operated by a bank under section 584(a)
- 11. A financial institution
- 12. A middleman known in the investment community as a nominee or custodian
- 13. A trust exempt from tax under section 664 or described in section 4947

Exemption from FATCA reporting code

The following codes identify payees that are exempt from reporting under FATCA. These codes apply to persons submitting this form for accounts maintained outside of the United States by certain foreign financial institutions. Therefore, if you are only submitting this form for an account you hold in the United States, you may leave this field blank. Consult with the person requesting this form if you are uncertain if the financial institution is subject to these requirements.

- A. An organization exempt from tax under section 501(a) or any individual retirement plan as defined in section 7701(a)(37)
- B. The United States or any of its agencies or instrumentalities
- C. A state, the District of Columbia, a possession of the United States, or any of their political subdivisions or instrumentalities
- D. A corporation the stock of which is regularly traded on one or more established securities markets, as described in Reg. section 1.1472-1(c)(1)(i)
- E. A corporation that is a member of the same expanded affiliated group as a corporation described in Reg. section 1.1472-1(c)(1)(i)
- F. A dealer in securities, commodities, or derivative financial instruments (including notional principal contracts, futures, forwards, and options) that is registered as such under the laws of the United States or any state
- G. A real estate investment trust
- H. A regulated investment company as defined in section 851 or an entity registered at all times during the tax year under the Investment Company Act of 1940
- I. A common trust fund as defined in section 584(a)
- J. A bank as defined in section 581K. A broker
- L. A trust exempt from tax under section 664 or described in section 4947(a)(1)
- M. A tax exempt trust under a section 403(b) plan or section 457(g) plan



Title 36. Public Contracts AS 36.05 & AS 36.10 Wage & Hour Administration Pamphlet No. 600

ALASKA DEPARTMENT OF LABOR & WORKFORCE DEVELOPMENT





Department of Labor and Workforce Development

Office of the Commissioner

Post Office Box 111149 Juneau, Alaska 99811 Main: 907.465.2700 fax: 907.465-2784

September 1, 2018

TO ALL CONTRACTING AGENCIES:

At the Alaska Department of Labor and Workforce Development, our goal is putting Alaskans to work. This pamphlet is designed to help contractors awarded public construction contracts understand the most significant laws of the State of Alaska pertaining to prevailing wage and resident hire requirements.

This pamphlet identifies current prevailing wage rates and resident hire classifications for public construction contracts (any construction projects awarded for the State of Alaska or its political subdivisions, such as local governments and certain non-profit organizations). Because these rates may change, this publication is printed in the spring and fall of every year, so please be sure you are using the appropriate rates. The rates published in this edition become effective September 1, 2018.

All projects with a final bid date of September 11, 2018, or later, must pay the prevailing wage rates contained in this pamphlet. As the law now provides, these rates will remain stable during the life of a contract or for 24 calendar months, whichever is shorter. **The 24-month period begins on the date the prime contract is awarded.** Upon expiration of the initial 24-month period, the <u>latest</u> wage rates issued by the department shall become effective for a subsequent 24-month period or until the original contract is completed, whichever occurs first. This process shall be repeated until the original contract is completed.

The term "original contract" means the signed contract that resulted from the original bid and any amendments, including changes of work scope, additions, extensions, change orders, and other instruments agreed to by the parties that have not been subject to subsequent open bid procedures.

If a higher federal rate is required due to partial federal funding or other federal participation, the higher rate must be paid.

For additional copies of this pamphlet, contact the nearest office of the Division of Labor Standards and Safety, Wage and Hour office or the Web address at: http://labor.state.ak.us/lss/pamp600.htm

For questions regarding prevailing wage or employment preference requirements, please contact the nearest Wage and Hour office. These offices are listed on Page xi.

Sincerely,

Commissioner

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Note to Readers: The statutes and administrative regulations listed in this publication were taken from the official codes, as of the effective date of the publication. However, there may be errors or omissions that have not been identified and changes that occurred after the publication was printed. This publication is intended as an informational guide only and is not intended to serve as a precise statement of the statutes and regulations of the State of Alaska. To be certain of the current laws and regulations, please refer to the official codes.

EXCERPTS FROM ALASKA LAW

(The following statute (36.05.005) applies to projects bid on or after October 20, 2011)

Sec. 36.05.005. Applicability.

This chapter applies only to a public construction contract that exceeds \$25,000.

Sec. 36.05.010. Wage rates on public construction.

A contractor or subcontractor who performs work on a public construction contract in the state shall pay not less than the current prevailing rate of wages for work of a similar nature in the region in which the work is done. The current prevailing rate of wages is that contained in the latest determination of prevailing rate of wages issued by the Department of Labor and Workforce Development at least 10 days before the final date for submission of bids for the contract. The rate shall remain in effect for the life of the contract or for 24 calendar months, whichever is shorter. At the end of the initial 24-month period, if new wage determinations have been issued by the department, the latest wage determination shall become effective for the next 24-month period or until the contract is completed, whichever occurs first. This process shall be repeated until the contract is completed.

Sec. 36.05.040. Filing schedule of employees, wages paid, and other information.

All contractors or subcontractors who perform work on a public construction contract for the state or for a political subdivision of the state shall, before the Friday of every second week, file with the Department of Labor and Workforce Development a sworn affidavit for the previous reporting period, setting out in detail the number of persons employed, wages paid, job classification of each employee, hours worked each day and week, and other information on a form provided by the Department of Labor and Workforce Development.

Sec. 36.05.045. Notice of work and completion; withholding of payment.

- (a) Before commencing work on a public construction contract, the person entering into the contract with a contracting agency shall designate a primary contractor for purposes of this section. Before work commences, the primary contractor shall file a notice of work with the Department of Labor and Workforce Development. The notice of work must list work to be performed under the public construction contract by each contractor who will perform any portion of work on the contract and the contract price being paid to each contractor. The primary contractor shall pay all filing fees for each contractor performing work on the contract, including a filing fee based on the contract price being paid for work performed by the primary contractor's employees. The filing fee payable shall be the sum of all fees calculated for each contractor. The filing fee shall be one percent of each contractor's contract price. The total filing fee payable by the primary contractor under this subsection may not exceed \$5,000. In this subsection, "contractor" means an employer who is using employees to perform work on the public construction contract under the contract or a subcontract.
- (b) Upon completion of all work on the public construction contract, the primary contractor shall file with the Department of Labor and Workforce Development a notice of completion together with payment of any additional filing fees owed due to increased contract amounts. Within 30 days after the department's receipt of the primary contractor's notice of completion, the department shall inform the contracting agency of the amount, if any, to be withheld from the final payment.
- (c) A contracting agency
 - (1) may release final payment of a public construction contract to the extent that the agency has received verification from the Department of Labor and Workforce Development that
 - (A) the primary contractor has complied with (a) and (b) of this section;
 - (B) the Department of Labor and Workforce Development is not conducting an investigation under this title; and
 - (C) the Department of Labor and Workforce Development has not issued a notice of a violation of this chapter to the primary contractor or any other contractors working on the public construction contract; and

- (2) shall withhold from the final payment an amount sufficient to pay the department's estimate of what may be needed to compensate the employees of any contractors under investigation on this construction contract, and any unpaid filing fees.
- (d) The notice and filing fee required under (a) of this section may be filed after work has begun if
 - (1) The public construction contract is for work undertaken in immediate response to an emergency; and
 - (2) The notice and fees are filed not later than 14 days after the work has begun.
- (e) A false statement made on a notice required by this section is punishable under AS 11.56.210.

Sec. 36.05.060. Penalty for violation of this chapter.

A contractor who violates this chapter is guilty of a misdemeanor and upon conviction is punishable by a fine of not less than \$100 nor more than \$1,000, or by imprisonment for not less than 10 days nor more than 90 days, or by both. Each day a violation exists constitutes a separate offense.

Sec. 36.05.070. Wage rates in specifications and contracts for public works.

- (a) The advertised specifications for a public construction contract that requires or involves the employment of mechanics, laborers, or field surveyors must contain a provision stating the minimum wages to be paid various classes of laborers, mechanics, or field surveyors and that the rate of wages shall be adjusted to the wage rate under <u>AS 36.05.010</u>.
- (b) Repealed by §17 ch 142 SLA 1972.
- (c) A public construction contract under (a) of this section must contain provisions that
 - (1) the contractor or subcontractors of the contractor shall pay all employees unconditionally and not less than once a week;
 - (2) wages may not be less than those stated in the advertised specifications, regardless of the contractual relationship between the contractor or subcontractors and laborers, mechanics, or field surveyors;
 - (3) the scale of wages to be paid shall be posted by the contractor in a prominent and easily accessible place at the site of the work;
 - (4) the state or a political subdivision shall withhold so much of the accrued payments as is necessary to pay to laborers, mechanics, or field surveyors employed by the contractor or subcontractors the difference between
 - (A) the rates of wages required by the contract to be paid laborers, mechanics, or field surveyors on the work; and
 - (B) the rates of wages in fact received by laborers, mechanics, or field surveyors.

Sec. 36.05.080. Failure to pay agreed wages.

Every contract within the scope of AS 36.05.070 shall contain a provision that if it is found that a laborer, mechanic, or field surveyor employed by the contractor or subcontractor has been or is being paid a rate of wages less than the rate of wages required by the contract to be paid, the state or its political subdivision may, by written notice to the contractor, terminate the contractor's right to proceed with the work or the part of the work for which there is a failure to pay the required wages and to prosecute the work to completion by contract or otherwise, and the contractor's sureties are liable to the state or its political subdivision for excess costs for completing the work.

Sec. 36.05.090. Payment of wages from withheld payments and listing contractors who violate contracts.

- (a) The state disbursing officer in the case of a state public construction contract and the local fiscal officer in the case of a political subdivision public construction contract shall pay directly to laborers, mechanics, or field surveyors from accrued payments withheld under the terms of the contract the wages due laborers, mechanics, or field surveyors under <u>AS 36.05.070</u>.
- (b) The state disbursing officer or the local fiscal officer shall distribute to all departments of the state government and to all political subdivisions of the state a list giving the names of persons who have disregarded their obligations to employees. A person appearing on this list and a firm, corporation,

partnership, or association in which the person has an interest may not work as a contractor or subcontractor on a public construction contract for the state or a political subdivision of the state until three years after the date of publication of the list. If the accrued payments withheld under the contract are insufficient to reimburse all the laborers, mechanics, or field surveyors with respect to whom there has been a failure to pay the wages required under AS 36.05.070, the laborers, mechanics, or field surveyors have the right of action or intervention or both against the contractor and the contractor's sureties conferred by law upon persons furnishing labor or materials, and in the proceedings it is not a defense that the laborers, mechanics, or field surveyors accepted or agreed to accept less than the required rate of wages or voluntarily made refunds.

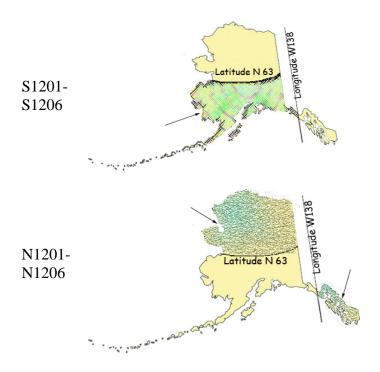
Sec. 36.05.900. Definition.

In this chapter, "contracting agency" means the state or a political subdivision of the state that has entered into a public construction contract with a contractor.

ADDITIONAL INFORMATION

LABORER CLASSIFICATION CLARIFICATION

The laborer rates categorized in class code S1201-S1206 apply in one area of Alaska; the area that is south of N63 latitude and west of W138 Longitude. The laborer rates categorized in class code N1201-N1206 apply in two areas of Alaska; the Alaska areas north of N63 latitude and east of W138 longitude. The following graphic representations should assist with clarifying the applicable wage rate categories:



ACCOMMODATIONS AND PER DIEM

The Alaska Department of Labor and Workforce Development has adopted a per diem requirement for blocklayers, bricklayers, carpenters, dredgemen, heat & frost insulators/asbestos workers, ironworkers, laborers, operative plasterers & cement masons, painters, piledrivers, power equipment operators, roofers, surveyors, truck drivers/surveyors, and tunnel workers. This per diem rate creates an allowable alternative to providing board and lodging under the following conditions:

Employer-Provided Camp or Suitable Accommodations

Unless otherwise approved by the Commissioner, the employer shall ensure that a worker who is employed on a project that is 65 road miles or more from the international airport in either Fairbanks, Juneau or Anchorage or is inaccessible by road in a 2-wheel drive vehicle and who is not a domiciled resident of the locality of the project shall receive meals and lodging. Lodging shall be in accordance with all applicable state and federal laws. In cases where the project site is not road accessible, but the employee can reasonably get to the project worksite from their permanent residence within one hour, the Commissioner may waive these requirements for that employee upon a written request from the employer.

The term "domiciled resident" means a person living within 65 road miles of the project, or in the case of a highway project, the mid-point of the project, for at least 12 consecutive months prior to the award of the project. However, if the employer or person provides sufficient evidence to convince the department that a person has established a permanent residence and an intent to remain indefinitely within the distance to be considered a "domiciled resident," the employer shall not be required to provide meals and lodging or pay per diem.

Where the employer provides or furnishes board, lodging or any other facility, the cost or amount thereof shall not be considered or included as part of the required prevailing wage basic hourly rate and cannot be applied to meet other fringe benefit requirements. The taxability of employer provided board and lodging shall be determined by the appropriate taxation enforcement authority.

Per Diem

Employers are encouraged to use commercial facilities and lodges; however, when such facilities are not available, per diem in lieu of meals and lodging must be paid at the basic rate of \$75.00 per day, or part thereof, the worker is employed on the project. Per diem shall not be allowed on highway projects west of Livengood on the Elliott Highway, at Mile 0 of the Dalton Highway to the North Slope of Alaska, north of Mile 20 on the Taylor Highway, east of Chicken, Alaska, on the Top of the World Highway and south of Tetlin Junction to the Alaska-Canada border.

The above-listed standards for room and board and per diem only apply to the crafts as identified in Pamphlet 600, *Laborers' and Mechanics' Minimum Rates of Pay*. Other crafts working on public construction projects shall be provided room and board at remote sites based on the department's existing policy guidelines. In the event that a contractor provides lodging facilities, but no meals, the department will accept payment of \$36 per day for meals to meet the per diem requirements.

APPRENTICE HIRING REQUIREMENTS

On November 5, 2015, Governor Walker signed Administrative Order No. 278 to help ensure that there is an adequate pool of well-trained Alaskan construction workers to satisfy the industry needs. AO 278 replaced AO 226 and established a 15 percent goal for hiring federally registered apprentices in certain job categories on all public construction projects awarded by the Alaska Department of Transportation and Public Facilities and the Alaska Department of Administration that exceed \$2.5 million. The Order requires the commissioners of DOTPF and DOA to strive to require not less than 15 percent labor hours on a qualified project are performed by federally registered apprentices in the following classifications:

Boilermakers Elevator Constructors & Mechanics Plumbers and Pipefitters

Bricklayers Insulation Workers Roofers

Carpenters Ironworkers Sheetmetal Workers

Cement MasonsLaborersSurveyorsCulinary WorkersMechanicsSprinkler FittersElectriciansMillwrightsTruck DriversEquipment OperatorsPaintersTug Boat Workers

Piledriving Occupations Welders

A federally registered apprentice is enrolled in an apprentice training program under 29 U.S.C. 50 and 29 C.F.R. 29.1 – 29.13. Contractors will be expected to file apprentice utilization forms throughout the project or utilize the online certified payroll filing system available on the My Alaska website. A copy of AO 278 may be viewed in its entirety at http://gov.state.ak.us/admin-orders/278.html or call any Wage and Hour office to receive a copy.

APPRENTICE RATES

Apprentice rates at less than the minimum prevailing rates may be paid to apprentices according to an apprentice program which has been registered and approved by the Commissioner of the Alaska Department of Labor and Workforce Development in writing or according to a bona fide apprenticeship program registered with the U.S. Department of Labor, Office of Apprenticeship Training. **Any employee listed on a payroll at an apprentice wage rate who is not registered as above shall be paid the journeyman prevailing minimum wage in that work classification.** Wage rates are based on prevailing crew makeup practices in Alaska and apply to work performed regardless of either the quality of the work performed by the employee or the titles or classifications which may be assigned to individual employees.

FRINGE BENEFIT PLANS

Contractors/subcontractors may compensate fringe benefits to their employees in any one of three methods. The fringe benefits may be paid into a union trust fund, into an approved benefit plan, or paid directly on the paycheck as gross wages.

Where fringe benefits are paid into approved plans, funds, or programs including union trust funds, the payments must be contributed at least monthly. If contractors submit their own payroll forms and are paying fringe benefits into approved plans, funds, or programs, the employer's certification must include, in addition to those requirements of 8 AAC 30.020(c), a statement that fringe benefit payments have been or will be paid at least monthly. Contractors who pay fringe benefits to a plan must ensure the plan is one approved by the Internal Revenue Service and that the plan meets the requirements of 8 AAC 30.025 (eff. 3/2/08) in order for payments to be credited toward the prevailing wage obligation.

SPECIAL PREVAILING WAGE RATE DETERMINATION

Special prevailing wage rate determinations may be requested for special projects or a special worker classification if the work to be performed does not conform to traditional public construction for which a prevailing wage rate has been established under <u>8 AAC 30.050(a)</u> of this section. Requests for special wage rate determinations must be in writing and filed with the Commissioner <u>at least 30 days before the award of the contract</u>. An applicant for a special wage rate determination shall have the responsibility to support the necessity for the special rate. An application for a special wage rate determination filed under this section must contain:

- (1) a specification of the contract or project on which the special rates will apply and a description of the work to be performed;
- (2) a brief narrative explaining why special wage rates are necessary;
- (3) the job class or classes involved;
- (4) the special wage rates the applicant is requesting, including survey or other relevant wage data to support the requested rates;
- (5) the approximate number of employees who would be affected; and
- (6) any other information which might be helpful in determining if special wage rates are appropriate.

Requests made pursuant to the above should be addressed to:

Director
Alaska Department of Labor and Workforce Development
Labor Standards & Safety Division
Wage and Hour Administration
P.O. Box 111149
Juneau, AK 99811-1149

Email: statewide.wagehour@alaska.gov

DEPARTMENT OF LABOR & WORKFORCE DEVELOPMENT ALASKA EMPLOYMENT PREFERENCE INFORMATION

By authority of AS 36.10.150 and 8 AAC 30.064, the Commissioner of Labor and Workforce Development has determined the State of Alaska to be a Zone of Underemployment. A Zone of Underemployment requires that Alaska residents who are eligible under AS 36.10.140 be given a minimum of 90 percent employment preference on public works contracts throughout the state in certain job classifications. This 90 percent Alaska resident hiring preference applies on a project-by-project, craft-by-craft or occupational basis and must be met each workweek by each contractor/subcontractor in each of the following classifications:

Boilermakers Electricians Laborers Roofers

Bricklayers Engineers & Architects Mechanics Sheet Metal Workers

CarpentersEquipment OperatorsMillwrightsSurveyorsCement MasonsForemen & SupervisorsPaintersTruck DriversCulinary WorkersInsulation WorkersPiledriving OccupationsTug Boat Workers

Ironworkers Plumbers & Pipefitters Welders

This determination became effective July 1, 2017, and remains in effect through June 30, 2019. This determination will be applied to projects with a bid submission deadline on or after July 1, 2017 and to projects previously covered by the 2015 Alaska employment preference determination. This will afford contractors an opportunity to consider the impacts of Alaska resident hire in their bids.

The first person on a certified payroll in any classification is called the "first worker" and is not required to be an Alaskan resident. However, once the contractor adds any more workers in the classification, then all workers in the classification are counted, and the 90 percent calculation is applied to compute the number of required Alaskans to be in compliance. To compute the number of Alaskan residents required in a workweek in a particular classification, multiply the total number of workers in the classification by 90 percent. The result is then rounded down to the nearest whole number to determine the number of Alaskans that must be employed in that classification.

If a worker works in more than one classification during a week, the classification in which they spent the most time would be counted for employment preference purposes. If the time is split evenly between two classifications, the worker is counted in both classifications.

If you have difficulty meeting the 90 percent requirement, an approved waiver must be obtained <u>before</u> a non-Alaska resident is hired who would put the contractor/subcontractor out of compliance (<u>8 AAC 30.081 (e) (f)</u>). The waiver process requires proof of an adequate search for qualified Alaskan workers. Qualified Alaska residents identified through the search must be hired before waivers for non-resident workers may be granted. To apply for a waiver, contact the nearest Wage and Hour Office for instructions.

Here is an example to apply the 90 percent requirement to four boilermaker workers. Multiply four workers by 90% and drop the fraction (.90 X 4 = 3.6 - .6 = 3). The remaining number is the number of Alaskan resident boilermakers required to be in compliance in that particular classification for that week.

The penalties for being out of compliance are serious. <u>AS 36.10.100</u> (a) states "A contractor who violates a provision of this chapter shall have deducted from amounts due to the contractor under the contract the prevailing wages which should have been paid to a displaced resident and these amounts shall be retained by the contracting agency." If a contractor/subcontractor is found to be out of compliance, penalties accumulate until they come into compliance.

Contractors are responsible for determining residency status. If you have difficulty determining whether a worker is an Alaska resident, you should contact the nearest Wage and Hour Office. Contact Wage and Hour in Anchorage at (907) 269-4900, in Fairbanks at (907) 451-2886, or in Juneau at (907) 465-4842.

Alaska Department of Labor and Workforce Development Labor Standards & Safety Division Wage and Hour Administration

Web site: http://labor.state.ak.us/lss/pamp600.htm

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Fairbanka

Anchorage	Juneau	Fairdanks
1251 Muldoon Road, Suite 113	1111 W. 8 th Street, Suite 302	Regional State Office Building
Anchorage, Alaska 99504-2098	Juneau, Alaska 99801	675 7 th Ave., Station J-1
Phone: (907) 269-4900	Phone: (907) 465-4842	Fairbanks, Alaska 99701-4593
		Phone: (907) 451-2886
Email:	Email:	Email:
statewide.wagehour@alaska.gov	statewide.wagehour@alaska.gov	statewide.wagehour@alaska.gov

LABOR STANDARDS NOTICE REQUESTS

If you would like to receive Wage and Hour Administration or Mechanical Inspection **regulation notices** or **publications information**, they are available via electronic mail, by signing up in the GovDelivery System, https://public.govdelivery.com/accounts/AKDOL/subscriber/new and selecting topics LSS – Wage and Hour – Forms and Publications, LSS – Mechanical Inspection Regulations, or LSS – Wage and Hour Regulations.

Publications are also available online at http://labor.alaska.gov/lss/home.htm

Anaharaga

DEBARMENT LIST

AS 36.05.090(b) states that "the state disbursing officer or the local fiscal officer shall distribute to all departments of the state government and to all political subdivisions of the state a list giving the names of persons who have disregarded their obligations to employees."

A person appearing on the following debarment list and a firm, corporation, partnership, or association in which the person has an interest may not work as a contractor or subcontractor on a public construction contract for the state or a political subdivision of the state for three years from the date of debarment.

Company Name	<u>Debarment Expires</u>
Tim Banach, Individual	February 23, 2021
Boulder Creek Electric	February 23, 2021

Laborers' & Mechanics' Minimum Rates of Pay

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other I	Benefits	THR
Boiler	makers							
A0101	Boilermaker (journeyman)	46.17	8.57	15.63	1.65	VAC 3.00	SAF 0.34	75.36
<mark>Brickl</mark>	ayers & Blocklayers							
*	**See note on last page if remote site							
A0201	Blocklayer	40.81	9.83	8.50	0.55	L&M 0.15	0.74	60.58
	Bricklayer Marble or Stone Mason Refractory Worker (Firebrick, Plastic, Castable, and Gunite Refractory Applications) Terrazzo Worker Tile Setter							
A0202	Tuck Pointer Caulker	40.81	9.83	8.50	0.55	L&M 0.15	0.74	60.58
	Cleaner (PCC)					L&M		
A0203	Marble & Tile Finisher	34.79	9.83	8.50	0.55	0.15	0.74	54.56
	Terrazzo Finisher					L&M		
A0204	Torginal Applicator	38.83	9.83	8.50	0.55	0.15	0.74	58.60
_	nters, Statewide **See note on last page if remote site							
A0301	Carpenter (journeyman)	38.34	10.08	14.63	0.95	L&M 0.10	SAF 0.10	64.20
	Lather/Drywall/Acoustical							
Cemer	nt Masons, Region I (North of N63 latitude)							
*	**See note on last page if remote site							
N0401	Group I, including:	37.88	8.21	11.80	1.18	L&M 0.10		59.17
	Application of Sealing Compound Application of Underlayment Building, General							

Building, General

Cement Mason (journeyman)

Concrete

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code Classification of Laborers & Mechanics	BHR H&W PEN TRN Other Benefits THR
Cement Masons, Region I (North of N63 latitude)	
**See note on last page if remote site	
N0401 Group I, including:	L&M 37.88 8.21 11.80 1.18 0.10 59.17
Concrete Paving	
Curb & Gutter, Sidewalk	
Curing of All Concrete	
Grouting & Caulking of Tilt-Up Panels	
Grouting of All Plates	
Patching Concrete	
Screed Pin Setter	
Spackling/Skim Coating	
	L&M
N0402 Group II, including:	37.88 8.21 11.80 1.18 0.10 59.17
Form Setter	
1 of the Botton	L&M
N0403 Group III, including:	37.88 8.21 11.80 1.18 0.10 59.17
•	
Concrete Saw (self-powered)	
Curb & Gutter Machine	
Floor Grinder	
Pneumatic Power Tools	
Power Chipping & Bushing	
Sand Blasting Architectural Finish	
Screed & Rodding Machine Operator	
Troweling Machine Operator	T 0 M
N0404 Group IV, including:	L&M 37.88 8.21 11.80 1.18 0.10 59.17
•	57100 012 11100 1110 0110 07117
Application of All Composition Mastic	
Application of All Epoxy Material	
Application of All Plastic Material	
Finish Colored Concrete	
Gunite Nozzleman	
Hand Powered Grinder	
Tunnel Worker	T 034
N0405 Group V, including:	L&M 38.13 8.21 11.80 1.18 0.10 59.42
Plasterer	
Cement Masons, Region II (South of N63 latitude)	
**See note on last page if remote site	
	L&M
S0401 Group I, including:	37.63 8.21 11.80 1.18 0.10 58.92

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Masons, Region II (South of N63 latitude) See note on last page if remote site Group I, including: Application of Sealing Compound Application of Underlayment	L&M 37.63 8.21 11.80 1.18 0.10	58.92
Group I, including: Application of Sealing Compound Application of Underlayment		58.92
Application of Sealing Compound Application of Underlayment		58.92
Application of Sealing Compound Application of Underlayment	37.63 8.21 11.80 1.18 0.10	58.92
Application of Underlayment		
Building, General		
Cement Mason (journeyman)		
Concrete		
Concrete Paving		
Curb & Gutter, Sidewalk		
_		
•		
Spackling/Skim Coating		
Group II. including:		58.92
oroup ii, including.	37.03 8.21 11.80 1.18 0.10	30.72
Form Setter		
	L&M	
Group III, including:	37.63 8.21 11.80 1.18 0.10	58.92
Concrete Saw (self-powered)		
Curb & Gutter Machine		
Floor Grinder		
Pneumatic Power Tools		
Power Chipping & Bushing		
Sand Blasting Architectural Finish		
Screed & Rodding Machine Operator		
Troweling Machine Operator		
	L&M	
Group IV, including:	37.63 8.21 11.80 1.18 0.10	58.92
Application of All Composition Mastic		
Finish Colored Concrete		
Gunite Nozzleman		
Hand Powered Grinder		
Tunnel Worker		
	L&M	
Group V, including:	37.88 8.21 11.80 1.18 0.10	59.17
CCCCPS G G CCFPPS I G A A F C F I G	Curb & Gutter, Sidewalk Curing of All Concrete Grouting & Caulking of Tilt-Up Panels Grouting & Caulking of Tilt-Up Panels Grouting of All Plates Catching Concrete Greed Pin Setter Grackling/Skim Coating Group II, including: Group III, including: Concrete Saw (self-powered) Curb & Gutter Machine Floor Grinder Cheumatic Power Tools Cower Chipping & Bushing Grand Blasting Architectural Finish Greed & Rodding Machine Operator Groweling Machine Operator Group IV, including: Application of All Composition Mastic Application of All Plastic Material Grinish Colored Concrete Gunite Nozzleman Hand Powered Grinder Funnel Worker Group V, including:	Curb & Gutter, Sidewalk Curing of All Concrete Grouting of All Plates Fatching Concrete Grouting of Setter Grouting of Setter Grouting State Plates Fatching Concrete Fatching Fatch

Plasterer

Class Code	Classification of Laborers & Mechanics	BHR H&W PEN	TRN Other E	Benefits THR
Culina	ry Workers * See note on last page			
			LEG	
A0501	Baker/Cook	28.37 7.40 6.97	0.07	42.81
A0503	General Helper	25.05 7.40 6.97	LEG 0.07	39.49
	Housekeeper Janitor			
	Kitchen Helper			
A0504	Head Cook	28.97 7.40 6.97	LEG 0.07	43.41
A0505	Head Housekeeper	25.45 7.40 6.97	LEG 0.07	39.89
	Head Kitchen Help			
Dredge	emen			
*	*See note on last page if remote site			
A0601	Assistant Engineer	39.51 9.80 12.25	L&M 1.00 0.10	62.66
	Craneman Electrical Generator Operator (primary pump/power barge/dredge) Engineer Welder			
A0602	Assistant Mate (deckhand)	38.35 9.80 12.25	L&M 1.00 0.10	61.50
A0603	Fireman	38.79 9.80 12.25	L&M 1.00 0.10	61.94
A0605	Leverman Clamshell	42.04 9.80 12.25	L&M 1.00 0.10	65.19
A0606	Leverman Hydraulic	40.28 9.80 12.25	L&M 1.00 0.10	63.43
A0607	Mate & Boatman	39.51 9.80 12.25	L&M 1.00 0.10	62.66
<u>A0608</u>	Oiler (dredge)	38.79 9.80 12.25	L&M 1.00 0.10	61.94
Electri	cians			
A0701	Inside Cable Splicer	39.82 13.05 13.63	L&M 0.95 0.20	LEG 0.15 67.80

Class Code	Classification of Laborers & Mechanics	BHR H&W PEN	TRN	Other I	Benefits	THR
Electri	cians					
A0702	Inside Journeyman Wireman, including:	39.49 13.05 13.87	0.95	L&M 0.20	LEG 0.15	67.71
	Technicians (including use of drones in electrical construction)					
A0703	Power Cable Splicer	54.39 13.05 18.82	0.95	L&M 0.20	LEG 0.15	87.56
<u>A0704</u>	Tele Com Cable Splicer	48.70 13.05 15.48	0.95	L&M 0.20	LEG 0.15	78.53
<u>A0705</u>	Power Journeyman Lineman, including:	52.64 13.05 18.77	0.95	L&M 0.20	LEG 0.15	85.76
	Power Equipment Operator Technician (including use of drones in electrical construction)					
<u>A0706</u>	Tele Com Journeyman Lineman, including:	46.95 13.05 15.43	0.95	L&M 0.20	LEG 0.15	76.73
	Technician (including use of drones in telecommunications construction) Tele Com Equipment Operator					
A0707	Straight Line Installer - Repairman	46.95 13.05 15.43	0.95	L&M 0.20	LEG 0.15	76.73
A0708	Powderman	50.64 13.05 18.71	0.95	L&M 0.20	LEG 0.15	83.70
A0710	Material Handler	26.57 12.27 4.80	0.15	L&M 0.15	LEG 0.15	44.09
A0712	Tree Trimmer Groundman	27.54 13.05 11.82	0.15	L&M 0.15	LEG 0.15	52.86
A0713	Journeyman Tree Trimmer	36.21 13.05 12.08	0.15	L&M 0.15	LEG 0.15	61.79
<u>A0714</u>	Vegetation Control Sprayer	39.66 13.05 12.18	0.15	L&M 0.15	LEG 0.15	65.34
<u>A0715</u>	Inside Journeyman Communications CO/PBX	38.07 13.05 13.58	0.95	L&M 0.20	LEG 0.15	66.00
Elevate	or Workers					
				L&M	VAC	
A0802	Elevator Constructor	38.82 15.42 16.61	0.61	0.36	4.04	75.86
A0803	Elevator Constructor Mechanic	55.45 15.42 16.61	0.61	L&M 0.36	VAC 6.16	94.61

Class						
Code Classification of Laborers & Mechanics	BHR H&W	PEN	TRN	Other E	Benefits	THR
Heat & Frost Insulators/Asbestos Workers						
**See note on last page if remote site						
A0902 Asbestos Abatement-Mechanical Systems	38.68 9.24	11.01	1.20	SAF 0.12		60.25
A0903 Asbestos Abatement/General Demolition All Systems	38.68 9.24	11.01	1.20	SAF 0.12		60.25
A0904 Insulator, Group II	38.68 9.24	11.01	1.20	SAF 0.12		60.25
A0905 Fire Stop	38.68 9.24	11.01	1.20	SAF 0.12		60.25
IronWorkers						
**See note on last page if remote site						
A1101 Ironworkers, including:	37.90 8.73	21.18	1.57	L&M 0.20	IAF 0.36	69.94
Bender Operators Bridge & Structural						
Machinery Mover						
Ornamental Reinforcing						
Rigger						
Sheeter						
Signalman Stage Rigger						
Toxic Haz-Mat Work						
Welder						
A1102 Helicopter	38.90 8.73	21.18	1.57	L&M 0.20	IAF 0.36	70.94
Tower (energy producing windmill type towers to include nacelle and blades)						
A1103 Fence/Barrier Installer	34.40 8.73	20.93	1.47	L&M 0.20	IAF 0.36	66.09
Guard Rail Installer						
A1104 Guard Rail Layout Man	35.14 8.73	20.93	1.47	L&M 0.20	IAF 0.36	66.83
Laborers (The Alaska areas north of N63 latitude and east of W138 lo	ngitude)					
**See note on last page if remote site						
N1201 Group I, including:	30.26 8.70	17.06	1.25	L&M 0.20		57.67

Asphalt Worker (shovelman, plant crew)

Classification of Laborers & Mechanics

BHR H&W PEN TRN Other Benefits THR

Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)

**See note on last page if remote site

L&M LEG

N1201 Group I, including:

30.26 8.70 17.06 1.25 0.20 0.20 57.67

Brush Cutter

Camp Maintenance Laborer

Carpenter Tender or Helper

Choke Setter, Hook Tender, Rigger, Signalman

Concrete Labor (curb & gutter, chute handler, curing, grouting, sack &

patch, screeding)

Crusher Plant Laborer

Demolition Laborer

Ditch Digger

Dumpman

Environmental Laborer (hazard/toxic waste, oil spill)

Fence Installer

Fire Watch Laborer

Flagman

Form Stripper

General Laborer

Guardrail Laborer, Bridge Rail Installer

Hydro-seeder Nozzleman

Laborer, Building

Landscaper or Planter

Laying of Mortarless Decorative Block (retaining walls, flowered

decorative block 4 feet or less - highway or landscape work)

Material Handler

Pneumatic or Power Tools

Portable or Chemical Toilet Serviceman

Pump Man or Mixer Man

Railroad Track Laborer

Sandblast, Pot Tender

Saw Tender

Slurry Work

Steam Cleaner Operator

Steam Point or Water Jet Operator

Storm Water Pollution Protection Plan Worker (SWPPP Worker -

erosion and sediment control Laborer)

Tank Cleaning

Utiliwalk & Utilidor Laborer

Watchman (construction projects)

Window Cleaner

L&M LEG

N1202 Group II, including: 31.26 8.70 17.06 1.25 0.20 0.20

Burning & Cutting Torch

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

58.67

Classification of Laborers & Mechanics

BHR H&W PEN TRN Other Benefits THR

Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)

**See note on last page if remote site

L&M LEG

N1202 Group II, including:

31.26 8.70 17.06 1.25 0.20 0.20 58.67

Cement or Lime Dumper or Handler (sack or bulk)

Certified Erosion Sediment Control Lead (CESCL Laborer)

Choker Splicer

Chucktender (wagon, air-track & hydraulic drills)

Concrete Laborer (power buggy, concrete saws, pumpcrete nozzleman,

vibratorman)

Culvert Pipe Laborer

Cured Inplace Pipelayer

Environmental Laborer (asbestos, marine work)

Floor Preparation, Core Drilling

Foam Gun or Foam Machine Operator

Green Cutter (dam work)

Gunite Operator

Hod Carrier

Jackhammer/Chipping Gun or Pavement Breaker

Laser Instrument Operator

Laying of Mortarless Decorative Block (retaining walls, flowered

decorative block over 4 feet - highway or landscape work)

Mason Tender & Mud Mixer (sewer work)

Pilot Car

Pipelayer Helper

Plasterer, Bricklayer & Cement Finisher Tender

Powderman Helper

Power Saw Operator

Railroad Switch Layout Laborer

Sandblaster

Scaffold Building & Erecting

Sewer Caulker

Sewer Plant Maintenance Man

Thermal Plastic Applicator

Timber Faller, Chainsaw Operator, Filer

Timberman

L&M LEG

32.16 8.70 17.06 1.25 0.20 0.20 59.57

N1203 Group III, including:

Bit Grinder

Camera/Tool/Video Operator

Guardrail Machine Operator

High Rigger & Tree Topper

High Scaler

Multiplate

Plastic Welding

Class	
Code	

Classification of Laborers & Mechanics

BHR H&W PEN TRN Other Benefits THR

Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)

**See note on last page if remote site

L&M LEG

L&M LEG

N1203 Group III, including: 32.16 8.70 17.06 1.25 0.20 0.20 59.57

Slurry Seal Squeegee Man

Traffic Control Supervisor

Welding Certified (in connection with laborer's work)

L&M LEG N1204 Group IIIA 35.44 8.70 17.06 1.25 0.20 0.20 62.85

Asphalt Raker, Asphalt Belly Dump Lay Down

Drill Doctor (in the field)

Driller (including, but not limited to, wagon drills, air-track drills,

hydraulic drills)

Pioneer Drilling & Drilling Off Tugger (all type drills)

Pipelayers

Powderman (Employee Possessor)

Storm Water Pollution Protection Plan Specialist (SWPPP Specialist)

Traffic Control Supervisor, DOT Qualified

L&M LEG N1205 Group IV

19.83 8.70 17.06 1.25 0.20 0.20 47.24

Final Building Cleanup

Permanent Yard Worker

N1206 Group IIIB 38.98 5.99 17.06 1.25 0.20 0.20 63.68

Federal Powderman (Responsible Person in Charge)

Grade Checking (setting or transferring of grade marks, line and grade,

GPS, drones)

Stake Hopper

Laborers (The area that is south of N63 latitude and west of W138 longitude)

**See note on last page if remote site

L&M LEG 30.26 8.70 17.06 1.25 0.20 0.20 57.67

Asphalt Worker (shovelman, plant crew)

Brush Cutter

S1201 Group I, including:

Camp Maintenance Laborer

Carpenter Tender or Helper

Choke Setter, Hook Tender, Rigger, Signalman

Concrete Labor (curb & gutter, chute handler, curing, grouting, sack &

patch, screeding)

Crusher Plant Laborer

Demolition Laborer

Ditch Digger

Classification of Laborers & Mechanics

BHR H&W PEN TRN Other Benefits THR

Laborers (The area that is south of N63 latitude and west of W138 longitude)

**See note on last page if remote site

L&M LEG

S1201 Group I, including:

30.26 8.70 17.06 1.25 0.20 0.20 57.67

Dumpman

Environmental Laborer (hazard/toxic waste, oil spill)

Fence Installer

Fire Watch Laborer

Flagman

Form Stripper

General Laborer

Guardrail Laborer, Bridge Rail Installer

Hydro-seeder Nozzleman

Laborer, Building

Landscaper or Planter

Laying of Mortarless Decorative Block (retaining walls, flowered

decorative block 4 feet or less - highway or landscape work)

Material Handler

Pneumatic or Power Tools

Portable or Chemical Toilet Serviceman

Pump Man or Mixer Man

Railroad Track Laborer

Sandblast, Pot Tender

Saw Tender

Slurry Work

Steam Cleaner Operator

Steam Point or Water Jet Operator

Storm Water Pollution Protection Plan Worker (SWPPP Worker -

erosion and sediment control Laborer)

Tank Cleaning

Utiliwalk & Utilidor Laborer

Watchman (construction projects)

Window Cleaner

S1202 Group II, including:

L&M LEG

0.20

58.67

31.26 8.70 17.06 1.25 0.20

Burning & Cutting Torch

Cement or Lime Dumper or Handler (sack or bulk)

Certified Erosion Sediment Control Lead (CESCL Laborer)

Choker Splicer

Chucktender (wagon, air-track & hydraulic drills)

Concrete Laborer (power buggy, concrete saws, pumpcrete nozzleman,

vibratorman)

Culvert Pipe Laborer

Cured Inplace Pipelayer

Environmental Laborer (asbestos, marine work)

Classification of Laborers & Mechanics

BHR H&W PEN TRN Other Benefits THR

Laborers (The area that is south of N63 latitude and west of W138 longitude)

**See note on last page if remote site

L&M LEG

S1202 Group II, including:

31.26 8.70 17.06 1.25 0.20 0.20 58.67

Floor Preparation, Core Drilling

Foam Gun or Foam Machine Operator

Green Cutter (dam work)

Gunite Operator

Hod Carrier

Jackhammer/Chipping Gun or Pavement Breaker

Laser Instrument Operator

Laying of Mortarless Decorative Block (retaining walls, flowered

decorative block over 4 feet - highway or landscape work)

Mason Tender & Mud Mixer (sewer work)

Pilot Car

Pipelayer Helper

Plasterer, Bricklayer & Cement Finisher Tender

Powderman Helper

Power Saw Operator

Railroad Switch Layout Laborer

Sandblaster

Scaffold Building & Erecting

Sewer Caulker

Sewer Plant Maintenance Man

Thermal Plastic Applicator

Timber Faller, Chainsaw Operator, Filer

Timberman

L&M LEG

L&M LEG

S1203 Group III, including: 32.16 8.70 17.06 1.25 0.20 0.20 59.57

Bit Grinder

Camera/Tool/Video Operator

Guardrail Machine Operator

High Rigger & Tree Topper

High Scaler

Multiplate

Plastic Welding

Slurry Seal Squeegee Man

Traffic Control Supervisor

Welding Certified (in connection with laborer's work)

Asphalt Raker, Asphalt Belly Dump Lay Down

Drill Doctor (in the field)

 S1204
 Group IIIA
 35.44
 8.70
 17.06
 1.25
 0.20
 0.20
 62.85

Class Code	Classification of Laborers & Mechanics	BHR H&W PEN	TRN	Other I	Benefits	THR
	ers (The area that is south of N63 latitude and west of W138 lon	citudo)				
	**See note on last page if remote site	gitude)				
	See note on last page if remote site			T 03.5	LEG	
S1204	Group IIIA	35.44 8.70 17.06	1.25	L&M 0.20	0.20	62.85
	Driller (including, but not limited to, wagon drills, air-track drills,					
	hydraulic drills)					
	Pioneer Drilling & Drilling Off Tugger (all type drills)					
	Pipelayers					
	Powderman (Employee Possessor) Storm Woton Pollution Protection Plan Specialist (SWPPR Specialist)					
	Storm Water Pollution Protection Plan Specialist (SWPPP Specialist) Traffic Control Supervisor, DOT Qualified					
	Traine Condoi Supervisor, DOT Quanticu			L&M	LEG	
S1205	Group IV	19.83 8.70 17.06	1.25	0.20	0.20	47.24
	Final Building Cleanup					
	Permanent Yard Worker					
				L&M	LEG	
S1206	Group IIIB	38.98 5.99 17.06	1.25	0.20	0.20	63.68
	Federal Powderman (Responsible Person in Charge)					
	Grade Checking (setting or transferring of grade marks, line and grade,					
	GPS, drones)					
	Stake Hopper					
Millw	rights					
				L&M		
A1251	Millwright (journeyman)	36.99 10.08 12.28	1.00	0.40	0.05	60.80
A 1252	Millwright Welder	37.99 10.08 12.28	1.00	L&M 0.40	0.05	61.80
H1232	Willwright Welder	37.99 10.08 12.28	1.00	0.40	0.03	01.80
Painte	rs, Region I (North of N63 latitude)					
	**See note on last page if remote site					
	See note on last page if remote site					
N1301	Group I, including:	32.09 8.21 11.90	1.08	L&M 0.07		53.35
111301	•	32.07 0.21 11.70	1.00	0.07		33.33
	Brush					
	General Painter					
	Hand Taping Hazardous Material Handler					
	Lead-Based Paint Abatement					
	Roll					
				L&M		
N1302	Group II, including:	32.61 8.21 11.90	1.08	0.07		53.87
	Bridge Painter					

Class	Classification of Laborers & Mechanics	BHR H&W PEN TRN Other Benefits THE
Code		BIR IR WIEN IN Outer Benefits III
	ers, Region I (North of N63 latitude)	
	**See note on last page if remote site	
	a	L&M
N1302	Group II, including:	32.61 8.21 11.90 1.08 0.07 53.8
	Epoxy Applicator	
	General Drywall Finisher	
	Hand/Spray Texturing	
	Industrial Coatings Specialist	
	Machine/Automatic Taping	
	Pot Tender	
	Sandblasting	
	Specialty Painter	
	Spray	
	Structural Steel Painter	
	Wallpaper/Vinyl Hanger	
N1304	Group IV, including:	39.28 8.21 14.23 1.05 0.05 62.83
	Claire	
	Glazier	
	Storefront/Automatic Door Mechanic	
N1305	Group V, including:	29.13 8.21 5.02 0.83 0.07 43.20
	Carpet Installer	
	Floor Coverer	
	Heat Weld/Cove Base	
	Linoleum/Soft Tile Installer	
Painte	ers, Region II (South of N63 latitude)	
:	**See note on last page if remote site	
		L&M
<u>S1301</u>	Group I, including:	30.13 8.21 11.85 1.08 0.07 51.34
	Brush	
	General Painter	
	Hand Taping	
	Hazardous Material Handler	
	Lead-Based Paint Abatement	
	Roll	
	Spray	
G4202		L&M
<u>S1302</u>	Group II, including:	31.38 8.21 11.85 1.08 0.07 52.59
	General Drywall Finisher	
	Hand/Spray Texturing	
	Machine/Automatic Taping	
	Wallpaper/Vinyl Hanger	

Class						
Code	Classification of Laborers & Mechanics	BHR H&W PEN	TRN	Other E	Benefits	THR
Painte	rs, Region II (South of N63 latitude)					
>	**See note on last page if remote site					
				L&M		
<u>S1303</u>	Group III, including:	31.48 8.21 11.85	1.08	0.07		52.69
	Bridge Painter					
	Epoxy Applicator					
	Industrial Coatings Specialist					
	Pot Tender Sandblasting					
	Specialty Painter					
	Structural Steel Painter					
				L&M		
S1304	Group IV, including:	39.53 8.21 13.23	1.08	0.07		62.12
	Glazier					
	Storefront/Automatic Door Mechanic					
				L&M		
S1305	Group V, including:	29.13 8.21 5.02	0.83	0.07		43.26
	Carpet Installer					
	Floor Coverer					
	Heat Weld/Cove Base					
	Linoleum/Soft Tile Installer					
<mark>Piledr</mark> i	ivers					
>	**See note on last page if remote site					
				L&M	IAF	
A1401	Piledriver	38.34 10.08 14.63	0.95	0.10	0.10	64.20
•	Assistant Dive Tender					
	Carpenter/Piledriver					
	Rigger					
	Sheet Stabber					
	Skiff Operator					
4 1 400	D'. 1' W. 11 /T ' W. 1	20 24 10 00 14 62	0.05	L&M	IAF	<i>c</i> 5 2 0
A1402	Piledriver-Welder/Toxic Worker	39.34 10.08 14.63	0.95	0.10	0.10	65.20
				L&M	IAF	
<u>A1403</u>	Remotely Operated Vehicle Pilot/Technician	42.65 10.08 14.63	0.95	0.10	0.10	68.51
	Single Atmosphere Suit, Bell or Submersible Pilot					
	The state of the s	00 45 40 00 44 50	0.05	L&M	IAF	100.24
A1404	Diver (working) ***See note on last page	82.45 10.08 14.63	0.95	0.10	0.10	108.31
				L&M	IAF	
A1405	Diver (standby) ***See note on last page	42.65 10.08 14.63	0.95	0.10	0.10	68.51

Class						
Code	Classification of Laborers & Mechanics	BHR H&W PEN	TRN	Other E	Senefits	THR
Piledri						
*	**See note on last page if remote site					
<u>A1406</u>	Dive Tender ***See note on last page	41.65 10.08 14.63	0.95	L&M 0.10	IAF 0.10	67.51
<u>A1407</u>	Welder (American Welding Society, Certified Welding Inspector)	43.90 10.08 14.63	0.95	L&M 0.10	IAF 0.10	69.76
Plumb	pers, Region I (North of N63 latitude)					
N1501	Journeyman Pipefitter	41.46 8.25 16.90	1.25	L&M 0.65	S&L	68.51
	Plumber Welder					
Plumb	ers, Region II (South of N63 latitude)					
\$1501	Journeyman Pipefitter	39.00 9.58 13.87	1 25	L&M 0.20		63.90
51501	Plumber Welder	37.00 7.50 13.07	1.23	0.20		03.70
Plumb	pers, Region IIA (1st Judicial District)					
X1501	Journeyman Pipefitter	38.02 13.37 11.25	2.50	L&M 0.24		65.38
	Plumber Welder					
Power	Equipment Operators					
*	**See note on last page if remote site					
A1601	Group I, including:	40.28 9.80 12.25	1.00	L&M 0.10		63.43
	Asphalt Roller: Breakdown, Intermediate, and Finish Back Filler Barrier Machine (Zipper) Beltcrete with Power Pack & similar conveyors Bending Machine Boat Coxswain Bulldozer Cableways, Highlines & Cablecars Cleaning Machine Coating Machine					

Power Equipment Operators

**See note on last page if remote site

L&M

A1601 Group I, including:

40.28 9.80 12.25 1.00 0.10

63.43

Concrete Hydro Blaster

Cranes (45 tons & under or 150 feet of boom & under (including jib & attachments))

- (a) Hydralifts or Transporters, (all track or truck type)
- (b) Derricks
- (c) Overhead

Crushers

Deck Winches, Double Drum

Ditching or Trenching Machine (16 inch or over)

Drag Scraper, Yarder, and similar types

Drilling Machines, Core, Cable, Rotary and Exploration

Finishing Machine Operator, Concrete Paving, Laser Screed, Sidewalk,

Curb & Gutter Machine

Helicopters

Hover Craft, Flex Craft, Loadmaster, Air Cushion, All-Terrain Vehicle,

Rollagon, Bargecable, Nodwell, & Snow Cat

Hydro Ax, Feller Buncher & similar

Hydro Excavation (Vac-Truck and Similar)

Licensed Line & Grade

Loaders (2 1/2 yards through 5 yards, including all attachments):

- (a) Forklifts (with telescopic boom & swing attachment)
- (b) Front End & Overhead, (2-1/2 yards through 5 yards)
- (c) Loaders, (with forks or pipe clamp)
- (d) Loaders, (elevating belt type, Euclid & similar types)

Material Transfer Vehicle (Elevating Grader, Pickup Machine, and similar types)

Mechanic, Welder, Bodyman, Electrical, Camp & Maintenance Engineer

Micro Tunneling Machine

Mixers: Mobile type with hoist combination

Motor Patrol Grader

Mucking Machine: Mole, Tunnel Drill, Horizontal/Directional Drill

Operator and/or Shield

Off-Road Hauler (including Articulating and Haul Trucks)

Operator on Dredges

Piledriver Engineer, L.B. Foster, Puller or similar paving breaker

Plant Operator (Asphalt & Concrete)

Power Plant, Turbine Operator 200 k.w & over (power plants or

combination of power units over 300 k.w.)

Remote Controlled Equipment

Scraper (through 40 yards)

Service Oiler/Service Engineer

Shot Blast Machine

Classification of Laborers & Mechanics

BHR H&W PEN TRN Other Benefits THR

Power Equipment Operators

**See note on last page if remote site

L&M

A1601 Group I, including:

40.28 9.80 12.25 1.00 0.10

63.43

65.19

Shovels, Backhoes, Excavators with all attachments, and Gradealls (3

yards & under)

Sideboom (under 45 tons)

Spreaders Topside (Asphalt Paver, Slurry machine, and similar types)

Sub Grader (Gurries, Reclaimer & similar types)

Tack Tractor

Truck Mounted Concrete Pump, Conveyor/Tele-belt, & Creter

Wate Kote Machine

L&M

A1602 Group IA, including:

42.04 9.80 12.25 1.00 0.10

Camera/Tool/Video Operator (Slipline)

Certified Welder, Electrical Mechanic, Camp Maintenance Engineer,

Mechanic (over 10,000 hours)

Cranes (over 45 tons or 150 feet including jib & attachments)

- (a) Clamshells & Draglines (over 3 yards)
- (b) Tower Cranes

Licensed Water/Waste Water Treatment Operator

Loaders (over 5 yards)

Motor Patrol Grader, Dozer, Grade Tractor, Roto-Mill/Profiler (finish:

when finishing to final grade and/or to hubs, or for asphalt)

Power Plants (1000 k.w. & over)

Quad

Scrapers (over 40 yards)

Screed

Shovels, Backhoes, Excavators with all attachments (over 3 yards)

Sidebooms (over 45 tons)

Slip Form Paver, C.M.I. & similar types

L&M 0.10

39.51 9.80 12.25 1.00

A1603 Group II, including:

Cement Hogs & Concrete Pump Operator

Conveyors (except those listed in Group I)

Grade Checker

Boiler - Fireman

Hoists on Steel Erection, Towermobiles & Air Tuggers

Horizontal/Directional Drill Locator

Licensed Grade Technician

Locomotives, Rod & Geared Engines

Mixers

Screening, Washing Plant

Sideboom (cradling rock drill, regardless of size)

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

62.66

Class Code	Classification of Laborers & Mechanics	BHR H&W PEN TRN Other Benefits	s THR
Power	Equipment Operators		
*	*See note on last page if remote site		
		L&M	
A1603	Group II, including:	39.51 9.80 12.25 1.00 0.10	62.66
	Skidder		
	Trenching Machines (under 16 inches)		
	Water/Waste Water Treatment Operator		
		L&M	
A1604	Group III, including:	38.79 9.80 12.25 1.00 0.10	61.94

Bombardier (tack or tow rig)

Boring Machine

Brooms, Power (sweeper, elevator, vacuum, or similar)

Bump Cutter

Compressor

Farm Tractor

Forklift, Industrial Type

Gin Truck or Winch Truck (with poles when used for hoisting)

Hoists, Air Tuggers, Elevators

Loaders:

- (a) Elevating-Athey, Barber Greene & similar types
- (b) Forklifts or Lumber Carrier (on construction job sites)
- (c) Forklifts, (with tower)
- (d) Overhead & Front End, (under 2-1/2 yards)

Locomotives: Dinkey (air, steam, gas & electric) Speeders

Mechanics, Light Duty

Oil, Blower Distribution

Posthole Digger, Mechanical

Pot Fireman (power agitated)

Power Plant, Turbine Operator, (under 200 k.w.)

Pumps, Water

Roller (other than Asphalt)

Saws, Concrete

Skid Hustler

Skid Steer (with all attachments)

Stake Hopper

Straightening Machine

Tow Tractor

L&M

A1605 Group IV, including: 32.58 9.80 12.25 1.00 0.10 55.73

Crane Assistant Engineer/Rig Oiler

Drill Helper

Parts & Equipment Coordinator

Spotter

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
Power	Equipment Operators							
>	**See note on last page if remote site							
A1605	Group IV, including:	32.58	9.80	12.25	1.00	L&M 0.10		55.73
	Steam Cleaner Swamper (on trenching machines or shovel type equipment)							
Roofe	**See note on last page if remote site							
A1701	Roofer & Waterproofer	44.62	11.75	2.91	0.81	L&M 0.10	0.03	60.22
<u>A1702</u>	Roofer Material Handler	31.23	11.75	2.91	0.81	L&M 0.10	0.03	46.83
Sheet 1	Metal Workers, Region I (North of N63 latitude)							
N1801	Sheet Metal Journeyman	47.74	10.80	13.11	1.45	L&M 0.12		73.22
	Air Balancing and duct cleaning of HVAC systems Brazing, soldering or welding of metals Demolition of sheet metal HVAC systems							
	Fabrication and installation of exterior wall sheathing, siding, metal roofing, flashing, decking and architectural sheet metal work							
	Fabrication and installation of heating, ventilation and air conditioning ducts and equipment							
	Fabrication and installation of louvers and hoods							
	Fabrication and installation of sheet metal lagging Fabrication and installation of stainless steel commercial or industrial food service equipment							
	Manufacture, fabrication assembly, installation and alteration of all ferrous and nonferrous metal work							
	Metal lavatory partitions Preparation of drawings taken from architectural and engineering plans required for fabrication and erection of sheet metal work Sheet Metal shelving							

Sheet Metal Workers, Region II (South of N63 latitude)

Sheet Metal venting, chimneys and breaching

Skylight installation

L&M S1801 Sheet Metal Journeyman 42.70 10.80 13.49 1.68 0.43 69.10

Air Balancing and duct cleaning of HVAC systems

Class	
Code	Classification of Laborers & Mechanics

BHR H&W PEN TRN Other Benefits THR

Sheet Metal Workers, Region II (South of N63 latitude)

S1801 Sheet Metal Journeyman 42.70 10.80 13.49 1.68 0.43 69.10

Brazing, soldering or welding of metals

Demolition of sheet metal HVAC systems

Fabrication and installation of exterior wall sheathing, siding, metal roofing, flashing, decking and architectural sheet metal work

Fabrication and installation of heating, ventilation and air conditioning ducts and equipment

Fabrication and installation of louvers and hoods

Fabrication and installation of sheet metal lagging

Fabrication and installation of stainless steel commercial or industrial

food service equipment

Manufacture, fabrication assembly, installation and alteration of all

ferrous and nonferrous metal work

Metal lavatory partitions

Preparation of drawings taken from architectural and engineering plans

required for fabrication and erection of sheet metal work

Sheet Metal shelving

Sheet Metal venting, chimneys and breaching

Skylight installation

Sprinkler Fitters		
	7.025	
A1901 Sprinkler Fitter	L&M 47.25 9.67 14.10 0.52 0.25	71.79
Sunyoyong		
**See note on last page if remote site		
A2001 Chief of Parties	L&M 42.81 10.58 11.89 1.15 0.10	66.53
A2002 Party Chief	L&M 41.22 10.58 11.89 1.15 0.10	64.94
A2003 Line & Grade Technician/Office Technician/GPS, Drones	L&M 40.62 10.58 11.89 1.15 0.10	64.34
A2004 Associate Party Chief (including Instrument Person & Head Chain	L&M 38.50 10.58 11.89 1.15 0.10	62.22
Person)/Stake Hop/Grademan		
A2006 Chain Person (for crews with more than 2 people)	L&M 34.16 10.58 11.89 1.15 0.10	57.88

Classification of Laborers & Mechanics

BHR H&W PEN TRN Other Benefits THR

Truck Drivers

**See note on last page if remote site

L&M

A2101 Group I, including:

39.59 10.58 11.89 1.15 0.10

63.31

Air/Sea Traffic Controllers

Ambulance/Fire Truck Driver (EMT certified)

Boat Coxswain

Captains & Pilots (air & water)

Deltas, Commanders, Rollagons, & similar equipment (when pulling sleds, trailers or similar equipment)

Dump Trucks (including rockbuggy, side dump, belly dump, & trucks with pups) over 40 yards up to & including 60 yards

Helicopter Transporter

Liquid Vac Truck/Super Vac Truck

Lowboys (including attached trailers & jeeps up to & including 8 axles)

Material Coordinator or Purchasing Agent

Ready-mix (over 12 yards up to & including 15 yards) (over 15 yards to

be negotiated)

Semi with Double Box Mixer

Tireman, Heavy Duty/Fueler

Water Wagon (250 Bbls and above)

L&M

A2102 Group 1A including:

40.86 10.58 11.89 1.15 0.10

64.58

62.05

Dump Trucks (including rockbuggy, side dump, belly dump & trucks with pups) over 60 yards up to & including 100 yards (over 100 yards to be negotiated)

Jeeps (driver under load)

Lowboys, including tractor attached trailers & jeeps, 9 axles, up to & including 12 axles (over 12 axles or 150 tons to be negotiated)

L&M

A2103 Group II, including:

38.33 10.58 11.89 1.15 0.10

All Deltas, Commanders, Rollagons, & similar equipment

Batch Trucks (8 yards & up)

Batch Trucks (up to & including 7 yards)

Boom Truck/Knuckle Truck (over 5 tons)

Cacasco Truck/Heat Stress Truck

Construction and Material Safety Technician

Dump Trucks (including rockbuggy, side dump, belly dump, & trucks with mure) over 20 yeards up to % including 40 yeards

with pups) over 20 yards up to & including 40 yards

Gin Pole Truck, Winch Truck, Wrecker (truck mounted "A" frame manufactured rating over 5 tons)

Mechanics

Oil Distributor Driver

Partsman

Ready-mix (up to & including 12 yards)

Class	
Code	

Classification of Laborers & Mechanics

BHR H&W PEN TRN Other Benefits THR

Truck Drivers

**See note on last page if remote site

L&M

A2103 Group II, including:

38.33 10.58 11.89 1.15 0.10

62.05

Stringing Truck

Turn-O-Wagon or DW-10 (not self loading)

L&M

A2104 Group III, including:

37.51 10.58 11.89 1.15 0.10 61.23

Boom Truck/Knuckle Truck (up to & including 5 tons)

Dump Trucks (including rockbuggy, side dump, belly dump, & trucks

with pups) over 10 yards up to & including 20 yards

Expeditor (electrical & pipefitting materials)

Gin Pole Truck, Winch Truck, Wrecker (truck mounted "A" frame

manufactured rating 5 tons & under)

Greaser - Shop

Thermal Plastic Layout Technician

Traffic Control Technician

Trucks/Jeeps (push or pull)

L&M

A2105 Group IV, including:

36.93 10.58 11.89 1.15 0.10 60.65

Air Cushion or similar type vehicle

All Terrain Vehicle

Buggymobile

Bull Lift & Fork Lift, Fork Lift with Power Boom & Swing Attachment

(over 5 tons)

Bus Operator (over 30 passengers)

Cement Spreader, Dry

Combination Truck-Fuel & Grease

Compactor (when pulled by rubber tired equipment)

Dump Trucks (including rockbuggy, side dump, belly dump, & trucks

with pups) up to & including 10 yards

Dumpster

Expeditor (general)

Fire Truck/Ambulance Driver

Flat Beds, Dual Rear Axle

Foam Distributor Truck Dual Axle

Front End Loader with Fork

Grease Truck

Hydro Seeder, Dual Axle

Hyster Operators (handling bulk aggregate)

Loadmaster (air & water operations)

Lumber Carrier

Ready-mix, (up to & including 7 yards)

Rigger (air/water/oilfield)

Semi or Truck & Trailer

Classification of Laborers & Mechanics

BHR H&W PEN TRN Other Benefits THR

Truck Drivers

**See note on last page if remote site

L&M

A2105 Group IV, including:

36.93 10.58 11.89 1.15 0.10

60.65

Tireman, Light Duty

Track Truck Equipment

Truck Vacuum Sweeper

Warehouseperson

Water Truck (Below 250 Bbls)

Water Truck (straight)

Water Wagon, Semi

L&M

A2106 Group V, including:

36.17 10.58 11.89 1.15 0.10 59.89

Buffer Truck

Bull Lifts & Fork Lifts, Fork Lifts with Power Boom & Swing

Attachments (up to & including 5 tons)

Bus Operator (up to 30 passengers)

Farm Type Rubber Tired Tractor (when material handling or pulling

wagons on a construction project)

Flat Beds, Single Rear Axle

Foam Distributor Truck Single Axle

Fuel Handler (station/bulk attendant)

Gear/Supply Truck

Gravel Spreader Box Operator on Truck

Hydro Seeders, Single axle

Pickups (pilot cars & all light-duty vehicles)

Rigger/Swamper

Tack Truck

Team Drivers (horses, mules, & similar equipment)

Tunnel Workers, Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)

**See note on last page if remote site

L&M LEG

0.20 60.70

0.20

Brakeman

Mucker

N2201 Group I, including:

Nipper

Storm Water Pollution Protection Plan Worker (SWPPP Worker -

erosion and sediment control Laborer)

Topman & Bull Gang

Tunnel Track Laborer

L&M LEG

N2202 Group II, including:

34.39 8.70 17.06 1.25 0.20 0.20 61.80

33.29 8.70 17.06 1.25

Burning & Cutting Torch

Classification of Laborers & Mechanics

BHR H&W PEN TRN Other Benefits THR

Tunnel Workers, Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)

**See note on last page if remote site

L&M LEG

N2202 Group II, including:

34.39 8.70 17.06 1.25 0.20 0.20 61.80

Certified Erosion Sediment Control Lead (CESCL Laborer)

Concrete Laborer

Floor Preparation, Core Drilling

Jackhammer/Chipping Gun or Pavement Breaker

Laser Instrument Operator

Nozzlemen, Pumpcrete or Shotcrete

Pipelayer Helper

L&M LEG

N2203 Group III, including:

35.38 8.70 17.06 1.25 0.20 0.20 62.79

Miner

Retimberman

L&M LEG

N2204 Group IIIA, including:

38.98 8.70 17.06 1.25 0.20 0.20 66.39

Asphalt Raker, Asphalt Belly Dump Lay Down

Drill Doctor (in the field)

Driller (including, but not limited to wagon drills, air-track drills,

hydraulic drills)

Pioneer Drilling & Drilling Off Tugger (all type drills)

Pipelayer

Powderman (Employee Possessor)

Storm Water Pollution Protection Plan Specialist (SWPPP Specialist)

L&M LEG

N2206 Group IIIB, including:

42.88 5.99 17.06 1.25 0.20 0.20 67.58

Federal Powderman (Responsible Person in Charge)

Grade Checking (setting or transferring of grade marks, line and grade,

GPS, drones)

Stake Hopper

...

Tunnel Workers, Laborers (The area that is south of N63 latitude and west of W138 longitude)

**See note on last page if remote site

L&M LEG

S2201 Group I, including:

33.29 8.70 17.06 1.25 0.20 0.20 60.70

Brakeman

Mucker

Nipper

Storm Water Pollution Protection Plan Worker (SWPPP Worker -

erosion and sediment control Laborer)

Topman & Bull Gang

Tunnel Track Laborer

Class	
Code	

Classification of Laborers & Mechanics

BHR H&W PEN TRN Other Benefits THR

Tunnel Workers, Laborers (The area that is south of N63 latitude and west of W138 longitude)

**See note on last page if remote site

L&M LEG

S2202 Group II, including:

34.39 8.70 17.06 1.25 0.20 0.20 61.80

Burning & Cutting Torch

Certified Erosion Sediment Control Lead (CESCL Laborer)

Concrete Laborer

Floor Preparation, Core Drilling

Jackhammer/Chipping Gun or Pavement Breaker

Laser Instrument Operator

Nozzlemen, Pumpcrete or Shotcrete

Pipelayer Helper

L&M LEG

L&M LEG

S2203 Group III, including: 35.38 8.70 17.06 1.25 0.20 0.20 62.79

Miner

Retimberman

S2204 Group IIIA, including: 38.98 8.70 17.06 1.25 0.20 0.20 66.39

Asphalt Raker, Asphalt Belly Dump Lay Down

Drill Doctor (in the field)

Driller (including, but not limited to wagon drills, air-track drills,

hydraulic drills)

Pioneer Drilling & Drilling Off Tugger (all type drills)

Pipelayer

Powderman (Employee Possessor)

Storm Water Pollution Protection Plan Specialist (SWPPP Specialist)

L&M LEG S2206 Group IIIB, including: 42.88 5.99 17.06 1.25 0.20 0.20 67.58

Federal Powderman (Responsible Person in Charge)

Grade Checking (setting or transferring of grade marks, line and grade,

GPS, drones)

Stake Hopper

Tunnel Workers, Power Equipment Operators

**See note on last page if remote site

						L&M	
A2207	Gro	up I 44.31 9	08.9	12.25	1.00	0.10	67.46
						L&M	
A2208	Gro	up IA 46.24 9	0.80	12.25	1.00	0.10	69.39
						L&M	
A2209	Gro	up II 43.46 9	08.9	12.25	1.00	0.10	66.61

Class Code Classification of Laborers & Mechanics	BHR H&W PEN TRN Other Benefits THR
Tunnel Workers, Power Equipment Operators	
**See note on last page if remote site	
	L&M
A2210 Group III	42.67 9.80 12.25 1.00 0.10 65.82

L&M

0.10

58.99

35.84 9.80 12.25 1.00

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

A2211 Group IV

^{*} A remote site is isolated and relatively distant from the amenities of civilization, and usually far from the employee's home. As a condition of employment, the workers must eat, sleep, and socialize at the worksite and remain there for extended periods.

^{**} This classification must receive board and lodging under certain conditions. A per diem option of \$75 is an alternative to providing meals and lodging. See Page v for an explanation.

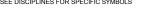
^{***} Work in combination of classifications: Employees working in any combination of classifications within the diving crew (working diver, standby diver, and tender) in a shift are paid in the classification with the highest rate for a minimum of 8 hours per shift.

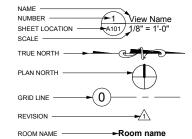
DEPARTMENT OF HEALTH AND SOCIAL SERVICES

FAIRBANKS PIONEER HOME KITCHEN FLOOR AND **TUB ROOM MODERNIZATIONS**

Project No: AJF 18-14P FAIRBANKS, AK

GENERAL SYMBOLS





PROJECT TEAM

ANCHORAGE, AK 99503

DESIGN LEAD

SHEET INDEX

GENERAL

ARCHITECTURAL

DISHWASHER ROOM - DEMO AND RENO A201 MOOSEWOOD TUB ROOM - DEMO AND RENO A203 AURORA TUB ROOM - DEMO AND RENO INTERIOR PLAN - ENLARGED MOOSEWOOD TUB ROOM A600

GENERAL INFORMATION

STRUCTURAL GENERAL NOTES S001

DISHWASHER ROOM - STRUCTURAL DETAILS MOOSEWOOD TUB ROOM - STRUCTURAL DETAILS AURORA TUB ROOM STRUCTURAL DETAILS

MECHANICAL

M001 MECHANICAL ABBREVIATIONS, LEGENDS, AND SCHEDULES M101 DISHWASHER ROOM - MECHANICAL DEMO AND RENO

MOOSEWOOD TUB ROOM -UNDERFLOOR - MECHANICAL DEMO AND RENO M200

MOOSEWOOD TUB ROOM - MECHANICAL DEMO AND RENO M201 M300 AURORA TUB ROOM - UNDERFLOOR - MECHANICAL DEMO AND RENO

AURORA TUB ROOM - MECHANICAL DEMO AND RENO

1. CONTRACTOR TO PROVIDE DUMPSTER FOR PURPOSES OF DISPOSING OF ALL ITEMS REMOVED DURING PROJECT. COORDINATE LOCATION OF DUMPSTER WITH OWNER. 2. ALL DEMOLISHED ITEMS SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR. 3. FACILITY IS OCCUPIED AND IN OPERATION 24/7. FACILITY MUST REMAIN IN OPERATION WITH MINIMAL SHUT DOWN TIME FOR THE TUB ROOMS AND KITCHEN DISHWASHING

ARCA.

OORDINATE ANY ROOM SHUTDOWNS WITH OWNER A MINIMUM OF 3 DAYS PRIOR TO SHUT DOWN. COORDINATE ANY SYSTEM SHUTDOWNS WITH THE OWNER 48 HOURS

BEFORE SHUTDOWN.
5. THE BUILDING CRAWLSPACE IS THE RETURN AIR PATH FOR THE EXISTING AIR HANDLING UNITS. THERE ARE (5) AIR HANDLING UNITS LOCATED IN THE BUILDING THAT. 9. THE BUILDING JARK SPACE IS THE RETURN AIR PAIR FOR THE EAST TIME AIR FAULTION OWN IS. THE BUILDING THE PULL RETURN AIR FROM THE CRAWLSPACE. MINIMIZE AIRBORNE PARTICULATES TO MAXIMUM EXTENT POSSIBLE. REPLACE ALL AIR HANDLER FILTERS WITH FILTERS WITH

LIST OF AIR HANDLER FILTERS ARE AS FOLLOWS: AHU-1,2,3 REQUIRE 8 EACH 20X24X2 FILTERS PER CHANGE AHU-5 REQUIRES 3 EACH 16X20X2 AND 3 EACH 20X20X2 FILTERS PER CHANGE AHU-6 REQUIRES 4 EACH 25X25X2 FILTERS PER CHANGE

6.CAP WASTE PIPING OF ACTIVE PIPES AS REQUIRED TO PREVENT SEWER GASES FROM ENTERING CRAWLSPACE 7. LAYDOWN AREA IS AVAILIBLE NORTH OF THE BUILDING IN THE PARKING LOT.

TUB ROOM MODERNIZATION

- 1 PERFORM WORK ON ONE TUR ROOM AT A TIME AND MAINTAIN ONE TUR ROOM OPERATIONAL AT ALL TIMES. HAVE ALL FOLLIPMENT AND MATERIALS ON SITE REFORE SHUTTING DOWN ROOMS AND STARTING WOR
- 3. PROTECT SURROUNDING AREA FROM CONSTRUCTION DUST AND DEBRIS BY ISOLATING THE TUB ROOMS AND PROVIDING A CLEAN WORKING ENVIRONMENT

- 1. KITCHEN WORK CAN OCCUR SIMULTANEOUSLY WITH BATHROOM WORK.
 2. OTHER THAN THE DISHWASHING AREA, THE KITCHEN IS TO REMAIN OPERATIONAL. PROVIDE PROTECTION TO PREVENT DUST AND DEBRIS FROM ENTERING THE
- KITCHEN.
 3. KITCHEN CONSTRUCTION TO BE COMPLETE WITHIN 3 WEEKS OF ROOM SHUT DOWN

A200 OVERALL FIRST FLOOR - AREA OF WORK PLAN

A202

A700 ACCESSORY/ FIXTURE TYPES AND INTERIOR ELEVATIONS

A900 SCHEDULES AND TYPES - ROOM

STRUCTURAL

S201 S202 S203

CODE SUMMARY

AUTHORITY HAVING JURISDICTION

GOVERNING CODES INTERNATIONAL BUILDING CODE (IBC) 2015 NATIONAL ELECTRIC CODE (NEC) 2014 INTERNATIONAL MECHANICAL CODE (IMC) 2015 UNIFORM PLUMBING CODE (UPC) 2015 INTERNATIONAL FIRE CODE (IFC) 2015

VICINITY MAP

ALASKA MAP

ARCTIC OCEAN

CIRCLE

FAIRBANKS CEAGLE

PACIFIC OCEAN

O DAWSON YT

WHITEHORSE YT

PROJECT



FAIRBANKS PIONEER HOME -KITCHEN FLOOR AND TUB ROOM **MODERNIZATIONS**

COMM. NUMBER DESIGNED BY ENS SCALE

GENERAL INFORMATION

G001

KEYNOTES

- 1) DISHWASHER ROOM WORK AREA
- (2) MOOSEWOOD TUB ROOM WORK AREA
- 3 AURORA TUB ROOM WORK AREA
- 4 PIPE REPAIR AT CRAWLSPACE WORK AREA

TYPICAL DEMOLITION NOTES

- A. PROVIDE DEMOLITION REQUIRED TO ACCOMMODATE NEW

TYPICAL RENOVATION NOTES

ARCHITECTURAL SYMBOL LEGEND

SEE G001 AND OTHER DISCIPLINES FOR ADDITIONAL SYMBOLS NOT SHOWN BELOW.

SPOT ELEVATION 1/4" / 1'-0" SPOT SLOPE KEYED NOTE -

-(101A) DOOR TAG -DETAIL NUMBER INTERIOR ELEVATION -SHEET LOCATION

BUILDING SECTION DETAIL NUMBER SHEET LOCATION

SIMILAR -WALL SECTION -DETAIL NUMBER SHEET LOCATION

Architects • Engineers • Surveyors 601 College Road Fairbanks AK 99701

907.452.1241 AECC511 designalaska.com

FAIRBANKS PIONEER HOME -KITCHEN FLOOR AND TUB ROOM MODERNIZATIONS

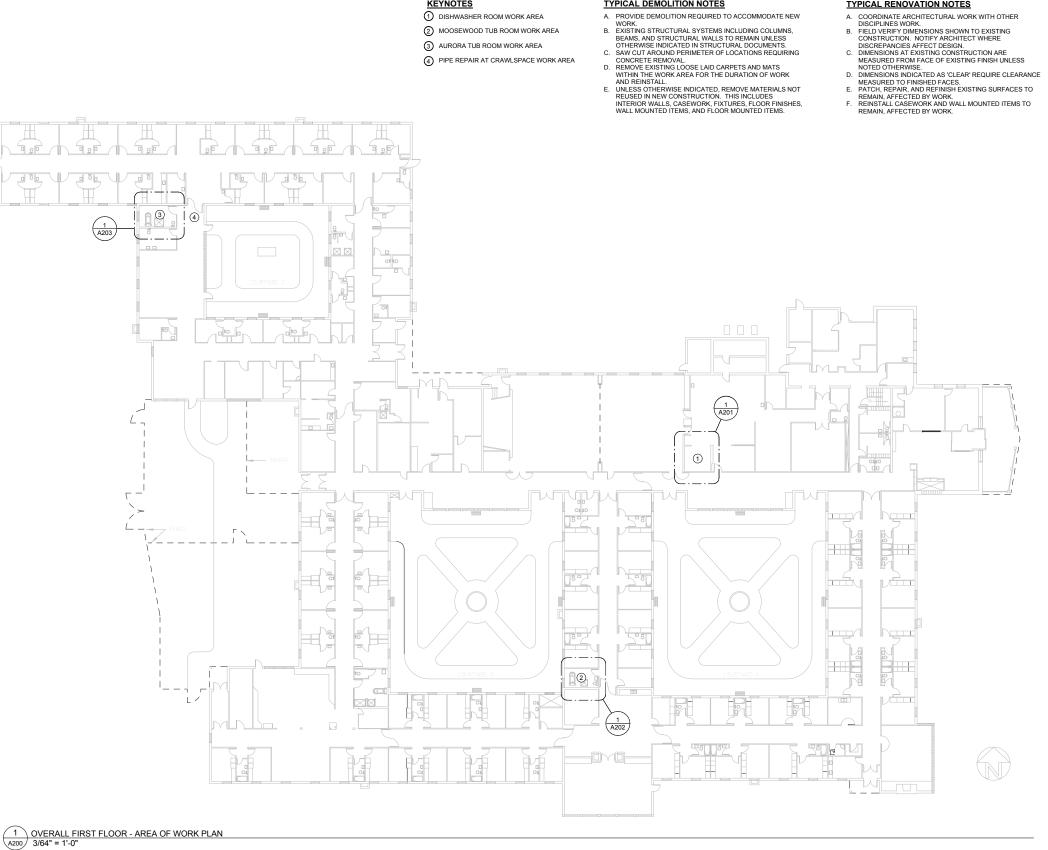
COMM. NUMBER 381701 DESIGNED BY ENS ENS DRAWN BY

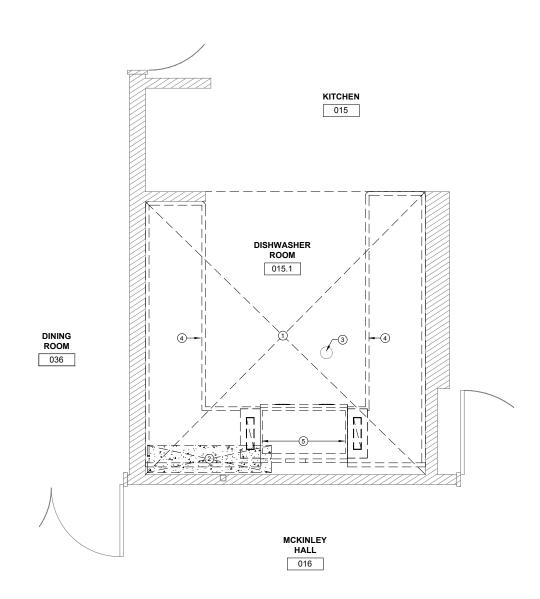
OVERALL FIRST FLOOR - AREA OF **WORK PLAN**

SCALE

KEYPLAN

A200





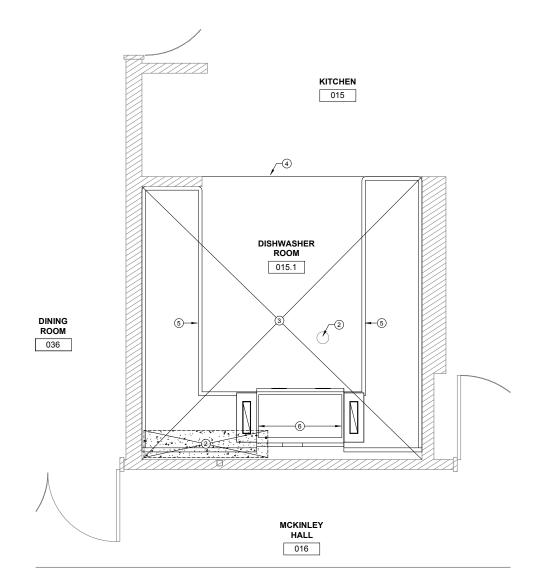
1 DISHWASHER ROOM - DEMO PLAN A201 1/2" = 1'-0" REFERENCE: 1/ A200

DEMOLITION NOTES

A. SEE A200 FOR TYPICAL DEMOLITION NOTES.

DEMOLITION KEYNOTES

- REMOVE EXISTING QUARRY TILE WALL BASE AND QUARRY TILE FLOORING DOWN TO FACE OF EXISTING CONCRETE ON METAL DECK
- 2 REMOVE FAILING CONCRETE SLAB AT CORNER OF ROOM PER \$201
- 3 REMOVE FLOOR DRAIN PER M101
- (4) REMOVE EXISTING STAINLESS STEEL COUNTERS, SHELVING, AND BACKSPLASH AS REQUIRED TO REPAIR FLOOR. SALVAGE FOR REINSTALLATION.
- ALTERNATE WORK: REMOVE EXISTING DISHWASER AND COMPONENTS. SEE M101 FOR ADDITIONAL INFORMATION.



2 DISHWASHER ROOM - RENO PLAN A201 1/2" = 1'-0" REFERENCE: 1/ A200

RENOVATION NOTES

A. SEE A200 FOR TYPICAL RENOVATION NOTES.
B. SEE A600 FOR ENLARGED PLAN AND ASSEMBLY TYPES.

RENOVATION KEYNOTES

- 1 PROVIDE CONCRETE SLAB PER S201
- ② FLOOR DRAIN PER M101
- PROVIDE RESILIENT SHEET FLOORING AND FLASH COVING TO 5" A.F. P. PREP EXISTING CONCRETE FLOOR AND PROVIDE LEVELING COMPOUND SLOPED TO DRAIN PRIOR TO INSTALLATION OF FLOORING.
- 4 PROVIDE TRANSITION STRIP
- REINSTALL SALVAGED STAINLESS STEEL COUNTERS,
 SHELVING, AND BACKSPLASH TO ENSURE A WATERTIGHT
 INSTALLATION. COORDINATE INSTALLATION WITH
 AWARDED ALTERNATE WORK.
- 6 ALTERNATE WORK: PROVIDE DISHWASHER PER M101





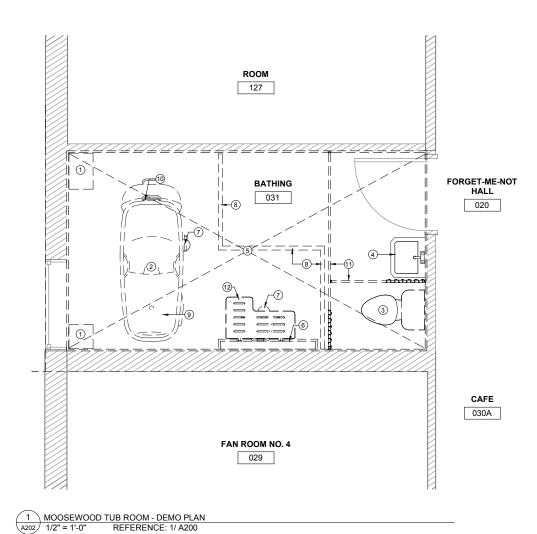
FAIRBANKS PIONEER HOME -KITCHEN FLOOR AND TUB ROOM MODERNIZATIONS

ISSUE DATE 05 APR 2018
COMM. NUMBER 381701
DESIGNED BY ENS
DRAWN BY ENS
SCALE 0" 1"

DISHWASHER ROOM - DEMO AND RENO

KEYPLAN

A201

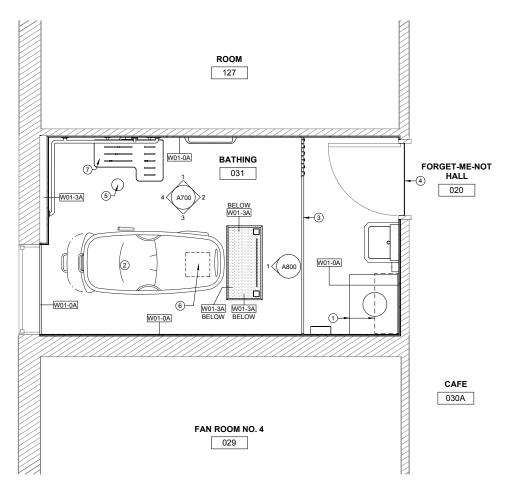


DEMOLITION NOTES

A. SEE A200 FOR TYPICAL DEMOLITION NOTES.

DEMOLITION KEYNOTES

- $\ensuremath{\textcircled{\sc 1}}$ REMOVE EXISTING CABINETS AND TURN OVER TO OWNER
- ② REMOVE EXISTING TUB AND SALVAGE FOR REINSTALLATION
- 3 REMOVE EXISTING TOILET PER M200 AND M201
- 4 REMOVE WALL MOUNTED LAVATORY PER M200 AND M201
- (5) REMOVE FRP WALL FINISH DOWN TO FACE OF STUDS AND REMOVE SHEET FLOORING DOWN TO FACE OF CONCRETE ON METAL DECK. CEILING FINISH TO REMAIN
- 6 REMOVE SHOWER CHASE WALL, SHOWER HEAD, AND VALVES. SEE M200 FOR ADDITIONAL INFORMATION.
- 7 SAW CUT CONCRETE AND METAL DECK AT DEMOLISHED OR NEW ITEM, APPROXIMATELY 1 SF PER LOCATION
- 8 REMOVE EXISTING TRENCH DRAIN PER M200 AND M201
- REMOVE EXISTING FLOOR SINK PER M200 AND M201
- 10 REMOVE FLOOR DRAIN PER M200 AND M201
- (1) REMOVE EXISTING CEILING MOUNTED PARTITION TRACKS AND CURTAINS
- REMOVE SHOWER SEAT AND SALVAGE FOR REINSTALLATION



2 MOOSEWOOD TUB ROOM - RENO PLAN 1/2" = 1'-0" REFERENCE: 1/ A200

RENOVATION NOTES

SEE A200 FOR TYPICAL RENOVATION NOTES.
 SEE A600 FOR ENLARGED PLAN AND ASSEMBLY TYPES.

RENOVATION KEYNOTES

- PROVIDE SOILED LINEN BASE CABINET AND UPPER WALL CABINET, PROVIDE BLOCKING AND SECURE TO WALL
- ② REINSTALL SALVAGED TUB
- 3 PROVIDE CEILING MOUNTED PARTITION TRACK AND CURTAIN
- 4 PROVIDE FLOORING TRANSITION
- 5 FLOOR DRAIN PER M200 AND M201
- 6 FLOOR SINK PER M200 AND M201
- 7 REINSTALL SALVAGED FOLDING SHOWER SEAT, PROVIDE BLOCKING AND SECURE TO WALL

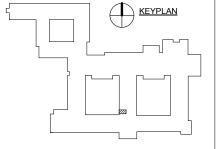
FAIRBANKS
PIONEER HOME KITCHEN FLOOR
AND TUB ROOM
MODERNIZATIONS

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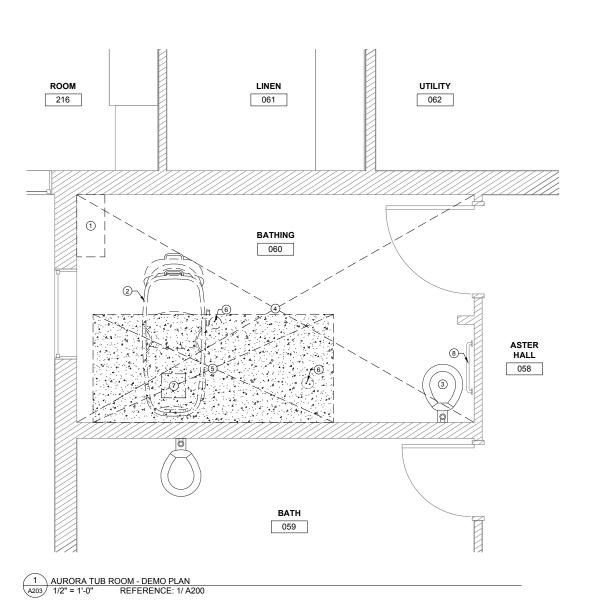
ISSUE DATE 05 APR 2018
COMM. NUMBER 381701
DESIGNED BY ENS
DRAWN BY ENS
SCALE 0° 11"

MOOSEWOOD TUB ROOM - DEMO AND RENO

A202



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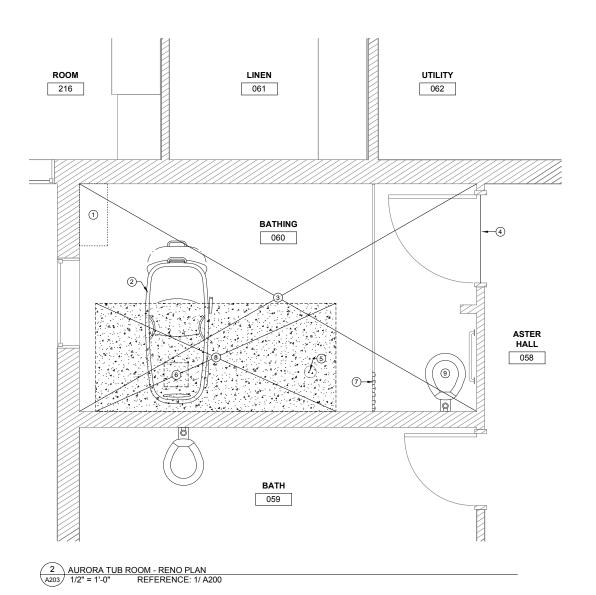


DEMOLITION NOTES

A. SEE A200 FOR TYPICAL DEMOLITION NOTES.

DEMOLITION KEYNOTES

- REMOVE EXISTING SHELVING AND SALVAGE FOR REINSTALLATION
- 2 REMOVE EXISTING TUB AND SALVAGE FOR REINSTALLATION
- 3 REMOVE EXISTING TOILET PER M300 AND M301
- REMOVE EXISTING CERAMIC WALL BASE AND TILE FLOOR DOWN TO EXISTING CONCRETE ON METAL DECK: EXISTING CERAMIC TILE AND SOLID SURFACE WALL FINISHES TO REMAIN.
- REMOVE SLAB AND METAL DECK PER S203
- 6 DEMOLISHED FLOOR DRAIN LOCATION, SEE M300 AND M301
- 7 DEMOLISHED FLOOR SINK LOCATION, SEE M300 AND M301
- 8 EXISTING GRAB BAR TO REMAIN



RENOVATION NOTES

SEE A200 FOR TYPICAL RENOVATION NOTES.
 SEE A600 FOR ENLARGED PLAN AND ASSEMBLY TYPES.

RENOVATION KEYNOTES

- ① REINSTALL SALVAGED SHELVING, SECURE TO WALL
- ② REINSTALL SALVAGED TUB
- 3 PROVIDE RESILIENT SHEET FLOORING AND FLASH COVING 5" A.F.F. PREP EXISTING CONCRETE FLOOR AND PROVIDE LEVELING COMPOUND SLOPED TO DRAIN PRIOR TO INSTALLATION OF FLOORING.
- 4 PROVIDE FLOORING TRANSITION
- 5 FLOOR DRAIN PER M300 AND M301
- 6 FLOOR SINK PER M300 AND M301
- EXISTING CURTAIN AND OVERHEAD CEILING MOUNTED TRACK TO REMAIN
- PROVIDE CONCRETE SLAB PER S203
- WATER CLOSET PER M300 AND M301





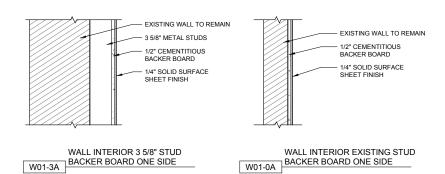
FAIRBANKS
PIONEER HOME KITCHEN FLOOR
AND TUB ROOM
MODERNIZATIONS

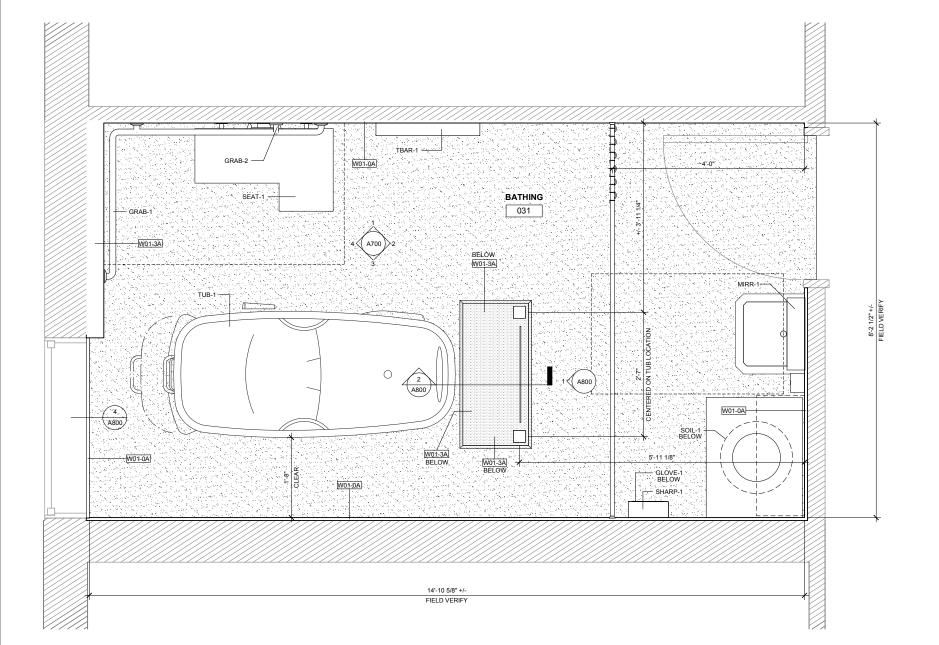
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COMM. NUMBER 381701
DESIGNED BY ENS
DRAWN BY ENS
SCALE 0" | 1"

AURORA TUB ROOM - DEMO AND RENO

KEYPLAN

A203





INTERIOR ASSEMBLY NOTES

1-TYPICAL
A. SEE A8 SHEETS FOR INTERIOR DETAILS.
B. COORDINATE ABOVE CEILING WORK.

INTERIOR FINISHES
 SEE ROOM SCHEDULE FOR WALL BASE AND APPLIED FINISHES NOT SHOWN ON ASSEMBLY TYPES.
 SEE MATERIAL SCHEDULE AND SPECIFICATIONS FOR SUBSTRATES REQUIRED BY APPLIED FINISHES.

3 - WATER RESISTANT ASSEMBLIES
A. PROVIDE CEMENTITIOUS BACKER BOARD FOR SOLID SURFACE WALL FINISH AT ENTIRE PERIMETER OF MOOSEWOOD TUB ROOM.

FINISH PLAN NOTES

- A. FURNITURE, EQUIPMENT, SOME CASEWORK, AND OTHER ELEMENTS MAY NOT BE SHOWN FOR CLARITY OF FLOOR FINISHES.

 B. CHANGE IN FLOOR MATERIAL TO OCCUR AT CENTERLINE OF DOOR IN CLOSED POSITION.

FINISH PLAN LEGEND



RESILIENT SHEET FLOORING, RSL-1 PER A900

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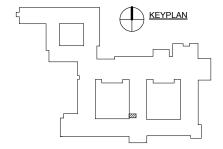


FAIRBANKS PIONEER HOME -KITCHEN FLOOR AND TUB ROOM **MODERNIZATIONS**

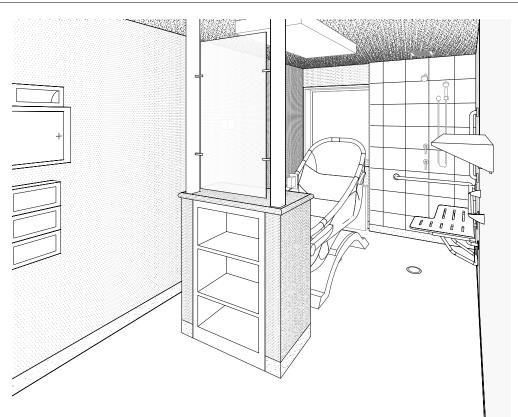
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INTERIOR PLAN -**ENLARGED** MOOSEWOOD TUB ROOM

A600



1 INTERIOR PLAN - FINISHES AND SIGNAGE - 1ST FLOOR 1" = 1'-0"



ITEM NAME	DESCRIPTION	COMMENTS
GLOVE-1	(E) MEDICAL GLOVE DISPENSER	
GRAB-1	GRAB BAR, HORIZONTAL ELBOW	
GRAB-2	(E) GRAB BAR, VERTICAL 24 INCHES	
HOOK-1	ROBE HOOK, SINGLE	
MIRR-1	(E) MIRROR	
SEAT-1	(E) SHOWER SEAT	
SHARP-1	(E) SHARPS DISPOSAL	
SHLF-1	SHELF, 8 INCHES X 24 INCHES	
SOAP-1	(E) SOAP DISPENSER	
SOIL-1	SOILED LINEN CART, 18" ROUND	
TBAR-1	TOWEL BAR, 24 INCHES LONG	

INTERIOR ELEVATION NOTES

A. SEE INTERIOR ACCESSORY AND FIXTURE NOTES ON A700.

B. PAINT INTERIOR LOUVERS, REGISTERS, DIFFUSERS, AND OTHER EXPOSED MATERIALS TO MATCH ADJACENT FINISHES. NOTIFY ARCHITECT, PRIOR TO INSTALLATION, IF DIMENSIONS SHOWN CREATE CONFLICT WITH CODES AND STANDARDS, MANUFACTURER RECOMMENDATIONS, OR FIELD CONDITIONS.

INTERIOR ACCESSORY AND FIXTURE NOTES

- A. ACCESSORY AND FIXTURE MOUNTING LOCATIONS ARE A. ACCESSORY AND FIXTURE MOUNTING LOCATIONS ARE INTENDED AS A GUIDELINE BASED ON ACCESSIBILITY, SAFETY, AND CONFORMANCE WITH CODES AND STANDARDS. ANY CONFLICTS IN INFORMATION SHOWN HERE SHALL BE SUPERSEDED BY APPLICABLE CODES, STANDARDS, OR AUTHORITIES HAVING JURISDICTION. B. NOTIFY ARCHITECT, PRIOR TO INSTALLATION, IF DIMENSIONS SHOWN CREATE CONFLICT WITH CODES AND STANDARDS, MANUFACTURER RECOMMENDATIONS, OR FIELD CONDITIONS.

 C. DIMENSIONS SHOWN ARE INTENDED TO BE APPLIED AS TYPICAL THROUGHOUT THE PROJECT UNLESS NOTED OTHERWISE.

- C. DIMENSIONS SHOWN ARE INTENDED TO BE APPLIED AS TYPICAL THROUGHOUT THE PROJECT UNLERS NOTED OTHERWISE.

 D. LOCATE OPERABLE PARTS NO MORE THAN 48" ABOVE FINISHED FLOOR.

 E. WHERE ACCESSORIES ARE MOUNTED OVER OBSTRUCTIONS, SUCH AS COUNTERS, LOCATE OPERABLE PARTS PER OBSTRUCTED REACH TABLE BELOW.

 F. PROVIDE CLEAR FLOOR AREA FOR SIDE AND FORWARD APPROACHES AT ACCESSORIES, FIXTURES, AND EQUIPMENT PRODUCT / INSTALLATION REQUIREMENTS. COORDINATE LAYOUT AND CLEARANCES TO ACCOMODATE SIZE VARIATIONS BETWEEN MANUFACTURES.

 H. PROVIDE CONCEALED WALL BACKING PER MANUFACTURES AT ACCESSORIES, FIXTURES, AND EQUIPMENT.

 EQUIPMENT.

 WHERE MORE THAN ONE ACCESSORY OR FIXTURE IS LOCATED ADJACENT TO ONE ANOTHER, ALIGN ITEMS HORIZONTALLY ONE PER WIND THAN ONE ACCESSORY OR FIXTURE IS LOCATED ADJACENT TO ONE ANOTHER, ALIGN ITEMS HORIZONTALLY ON VETTICALLY UNLESS NOTED OTHERWISE.

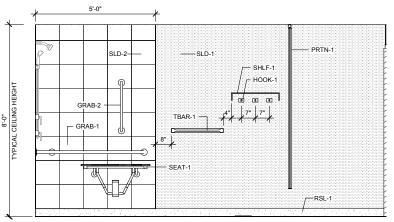
 J. SEE MECHANICAL FOR PLUMBING FIXTURES.

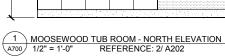
- J. SEE MECHANICAL FOR PLUMBING FIXTURES.

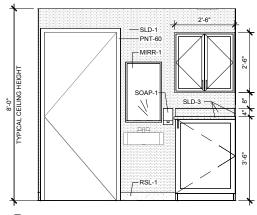
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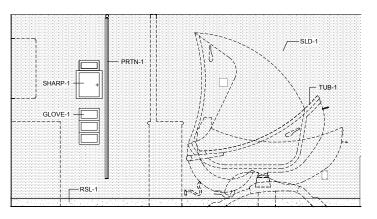
5 MOOSEWOOD TUB ROOM PERSPECTIVE



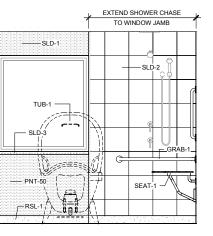








3 MOOSEWOOD TUB ROOM - SOUTH ELEVATION REFERENCE: 2/ A202



4 MOOSEWOOD TUB ROOM - WEST ELEVATION
1/2" = 1'-0" REFERENCE: 2/ A202

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FAIRBANKS PIONEER HOME -

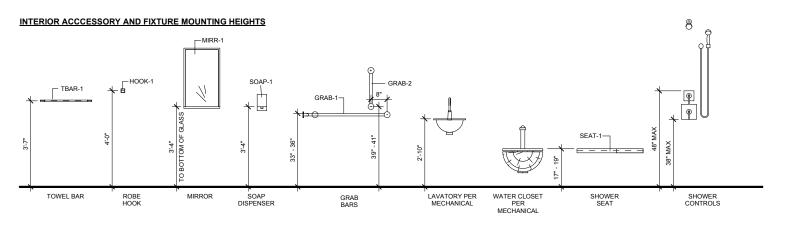
KITCHEN FLOOR

AND TUB ROOM

MODERNIZATIONS

ACCESSORY/ FIXTURE TYPES AND INTERIOR **ELEVATIONS**

A700



INTERIOR ELEVATION NOTES

A. SEE INTERIOR ACCESSORY AND FIXTURE NOTES ON A700.

B. PAINT INTERIOR LOUVERS, REGISTERS, DIFFUSERS, AND OTHER EXPOSED MATERIALS TO MATCH ADJACENT FINISHES. NOTIFY ARCHITECT, PRIOR TO INSTALLATION, IF DIMENSIONS SHOWN CREATE CONFLICT WITH CODES AND STANDARDS, MANUFACTURER RECOMMENDATIONS, OR FIELD CONDITIONS.



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FAIRBANKS

COMM. NUMBER DESIGNED BY

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PIONEER HOME -

KITCHEN FLOOR

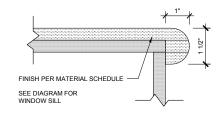
AND TUB ROOM

MODERNIZATIONS

INTERIOR DETAILS

381701

ENS ENS



S202

S202

- EXISTING HARD LID CEILING, PAINTED PNT-80

EXISTING STRUCTURE

COLUMNS (2) TIED TO STRUCTURAL STEEL - EXISTING HARD LID CEILING

- EXISTING RELOCATED BATH TUB GLASS PANEL ATTACHED BETWEEN COLUMNS

- SOLID SURFACE WORK SURFACE

- PONY WALL HOUSING WATER AND ELECTRICAL CONNECTIONS

- SHELVES

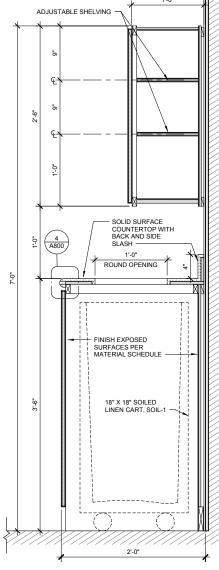
4 A800

W01-3A

— FLOOR SINK

2 INTERIOR SECTION AT PONY WALL
A800 1 1/2" = 1'-0"

INTERIOR CASEWORK DETAIL - SOLID SURFACE COUNTER 6" = 1'-0"



3 INTERIOR CASEWORK DETAIL - TALL CABINET 1/2" = 1'-0"

A800

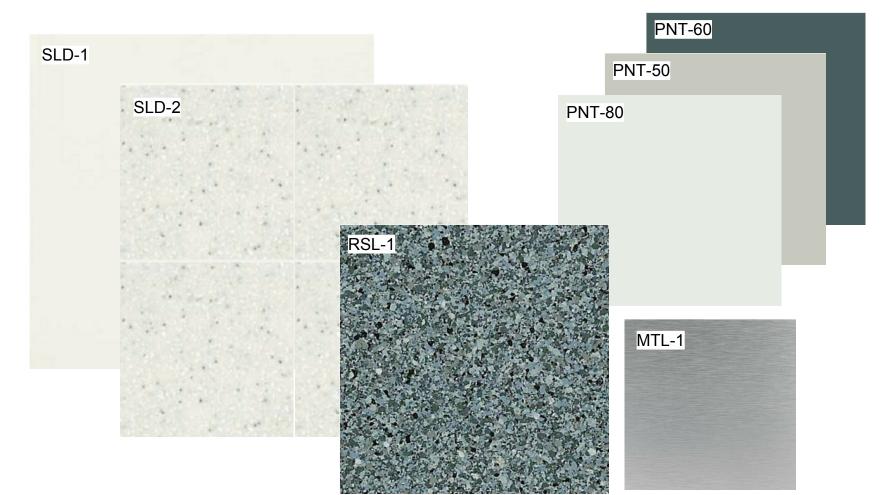
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1 INTERIOR ELEVATION AT PONY WALL
A800 1 1/2" = 1'-0"

35 1/2"

	ROOM SCHEDULE											
	ROOM	FL	OOR		WALL		D	OOR	CE	ILING	RO	ОМ
					AC	CENT						
NUMBER	NAME	FINISH	BASE	FINISH	FINISH	LOCATION	FINISH	FRAME FINISH	FINISH	HEIGHT	REMARKS	NUMBER
015	KITCHEN	EXISTING	EXISTING	EXISTING		015						
015.1	DISHWASHER ROOM	RSL-1	RSL-1	EXISTING	EXISTING	EXISTING			EXISTING	EXISTING		015.1
016	MCKINLEY HALL	EXISTING	EXISTING	EXISTING		016						
020	FORGET-ME-NOT HALL	EXISTING	EXISTING	EXISTING		020						
029	FAN ROOM NO. 4	EXISTING	EXISTING	EXISTING		029						
030A	CAFE	EXISTING	EXISTING	EXISTING		030A						
031	BATHING	RSL-1	RSL-1	SLD-1	SLD-2	SEE A700	EXISTING	PNT-60	PNT-80	EXISTING	1.	031
036	DINING ROOM	EXISTING	EXISTING	EXISTING		036						
058	ASTER HALL	EXISTING	EXISTING	EXISTING		058						
059	BATH	EXISTING	EXISTING	EXISTING		059						
060	BATHING	RSL-1	RSL-1	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING		060
061	LINEN	EXISTING	EXISTING	EXISTING		061						
062	UTILITY	EXISTING	EXISTING	EXISTING		062						
127	ROOM	EXISTING	EXISTING	EXISTING		127						
216	ROOM	EXISTING	EXISTING	EXISTING		216						

	MATERIAL COLOR BOARD				
	BASIS OF DESIGN				
TYPE	DESCRIPTION	MANUFACTURER	MODEL	COLOR	
MTL-1	METAL FINISH - BATH ACCESSORIES	TBD	TBD	STAINLESS STEEL SATIN FINISH	
PL-1	PLASTIC LAMINATE - CASEWORK	FORMICA	LAMINATE WOOD GRAINS	PLANKED DELUXE PEAR 6206-43	
PNT-50	INTERIOR PAINT - WALL HEATER	SHERWIN WILLIAMS	PROMAR 200 INTERIOR LATEX	SW 6197 ALOOF GRAY	
PNT-60	INTERIOR PAINT - DOOR FRAME AND COLUMNS	SHERWIN WILLIAMS	PROMAR 200 INTERIOR LATEX	SW 6223 STILL WATER	
PNT-80	INTERIOR PAINT - CEILING	SHERWIN WILLIAMS	PROMAR 200 INTERIOR LATEX	SW 7007 CEILING BRIGHT WHITE	
PRTN-1	PARTITION TRACK AND CURTAIN	INPRO	CLICKEZE WITH ANTIMICROBIAL FABRIC	CURTAIN: ARRAY, EUCALYPTUS; TRACK: WHITE	
RSL-1	RESILIENT SHEET FLOORING	MANNINGTON COMMERCIAL	BIOSPEC MD	GRAY FLANNEL	
SLD-1	SOLID SURFACE - TYPICAL WALL COVERING	INPRO	BIOPRISM	POLAR ICE	
SLD-2	SOLID SURFACE - SHOWER WALL COVERING	INPRO	BIOPRISM - 12" SQUARE	LUNAR	
SLD-3	SOLID SURFACE - COUNTERTOP	LG HAUSY	HI-MACS	COCONUT G170	
WF-1	WINDOW FILM - TRANSLUCENT	TROVE	WINDOW FILM - TRANSLUCENT	DRIFT	



ROOM SCHEDULE NOTES

- A. PROVIDE FINISHES TO FULL HEIGHT OF WALL UNLESS NOTED OTHERWISE.

 B. SEE MATERIAL SCHEDULE FOR FINISH INFORMATION.
 C. SEE ASSEMBLY TYPES FOR FINISH SUBSTRATES.
 D. SEE FLOOR FINISH PLAN WHERE FLOOR FINISH VARIES.
 E. SEE INTERIOR ELEVATIONS WHERE FLOOR BASE VARIES.
 F. SEE INTERIOR ELEVATIONS WHERE WALL ACCENT
- VARIES.

 G. SEE INTERIOR ELEVATIONS WHERE WALL ACCENT VARIES.

 G. SEE INTERIOR ELEVATIONS FOR LOCATION AND EXTENT OF WALL ACCENT FINISH.

ROOM SCHEDULE REMARKS

1. PATCH, PREP, AND PAINT ENTIRE CEILING.

ROOM SCHEDULE ABBREVIATIONS

SEE A001 FOR STANDARD ARCHITECTURAL ABBREVIATIONS SEE MATERIAL SCHEDULE FOR MATERIAL TYPES

ABOVE FINISHED FLOOR
CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CONTRACTOR FURNISHED OWNER INSTALLED
MANUFACTURER'S STANDARD
NOT IN CONTRACT
OWNER FURNISHED OWNER INSTALLED
OWNER FURNISHED CONTRACTOR INSTALLED
SPECIFICATION

MATERIAL SCHEDULE NOTES

- A. FINISH PLANS, INTERIOR ELEVATIONS, AND ROOM SCHEDULE FOR LOCATION OF FINISHES.

 B. THE MATERIAL SCHEDULE IS ORGANIZED BY SPEC NUMBERS MATERIALS WITH SPEC NUMBERS INCLUDING 'NA' ARE INTENDED AS A BASIS OF DESIGN WITH NO CORRELATING SPEC SECTION. SEE MATERIAL SCHEDULE INDEX BELOW TO QUICKLY FIND THE SPEC NUMBER FOR MATERIALS ORGANIZED BY TYPE.

MATERIAL SCHEDULE REMARKS

MISCELLANEOUS 1. NOT USED

SEE A001 FOR STANDARD ARCHITECTURAL ABBREVIATIONS MATERIAL TYPES DEFINED IN MATERIAL SCHEDULE

MATERIAL SCHEDULE ABBREVIATIONS

MANUFACTURER'S STANDARD SPECIFICATION TYPICAL SLD-3 PRTN-1 PL-1

FAIRBANKS PIONEER HOME -KITCHEN FLOOR AND TUB ROOM **MODERNIZATIONS**

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SCHEDULES AND TYPES - ROOM

A900

CENTEDAL CEDITOTUDAL NOTES

GĿ	=INt	ERAL STRUCTURAL I	NOTES
1. DI	ESIGN CI BUILD GOVE	RITERIA ING CODERNING JURISDICTION	2015 IBC (INTERNATIONAL BUILDING CODE) CITY OF FAIRBANKS
2.	LIVE L	OADS (PAGE)	50 DO5
		FLOOR LIVE LOAD (BASIC)	50 PSF 100 PSF
B CO	NCRETE		
1.	GENE		
	A.	ALL CAST-IN-PLACE CONCRETE SHALL HAVE A MINIMUM 28- PSI.	DAY COMPRESSIVE STRENGTH (fc) OF 4000
	В.	CONCRETE SHALL MEET ALL REQUIREMENTS OF ACI 301 SF BUILDINGS.	
	C.	DIMENSIONS SHOWN ON DRAWING SHALL SUPERCEDE THO	SE SHOWN ON GENERAL NOTES.
2.		ORCING:	- 00 LINE -00 OTHERWISE NOTED 1/0-FRT //0
	A.	REINFORCING BARS SHALL CONFORM TO ASTM A615 GRAD BARS WHICH MAY BE GRADE 40. WELDED WIRE FABRIC SHA	
	B.	DETAIL REINFORCING BARS IN ACCORDANCE WITH THE ACI	
	Ь.	CODE REQUIREMENTS FOR REINFORCED CONCRETE, LATES	
	C.	PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REIN	
		DRAWINGS, PROVIDE SUFFICIENT TIE BARS TO SUPPORT AL	
	D.	DO NOT CUT ANY REINFORCEMENT AT OPENINGS.	
	E.	UNLESS A REINFORCING SPLICE, CLEAR DISTANCE BETWEE BAR DIAMETERS NOR LESS THAN 1 1/2"	EN REINFORCING SHALL NOT BE LESS THAN 1.5
	F.	MINIMUM LAP SPLICE LENGTHS FOR REINFORCING BARS SH	
		 a. SPLICES WITH 12" OR MORE OF FRESH CONCRETE F 	PLACED BENEATH: 80 BAR DIAMETERS
		 ALL OTHER SPLICES: 62 BAR DIAMETERS 	
	G.	PROVIDE REINFORCEMENT COVER AS FOLLOWS (ACI 7.7), U	
		a. CONCRETE POURED AGAINST EARTH 3"	±3/8"
		b. CONCRETE EXPOSED TO EARTH OR WEATHER: NO 6 OR LARGER 2"	. 2 /0"
		 NO. 6 OR LARGER	±3/8" +3/8"
		c. CONCRETE NOT EXPOSED TO EARTH OR WEATHER:	
		NO. 14 OR LARGER 1 1/2"	
		NO. 11 OR SMALLER	+3/8"
		d. CONCRETE SLABS ON GRADEPLACE	
C 0TI	DUCTUR	AL STEEL	
1.		RUCTURAL STEEL WIDE FLANGE MEMBERS AND CHANNELS :	SHALL BE ASTM A572 - GRADE 50

- ALL STRUCTURAL STEEL WIDE FLANGE MEMBERS AND CHANNELS SHALL BE ASTM A572 GRADE 50 (Fy = 50 KSI) OR A992.
 SOUARE! RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A500 GRADE B (Fy = 46 KSI).
 ROUND HSS SHALL CONFORM TO ASTM A500 GRADE B (Fy = 42 KSI).
 PIPE SHALL CONFORM TO ASTM A53 GRADE B (Fy = 35 KSI).
 ANGLES AND PLATES SHALL BE ASTM A36 (Fy = 36 KSI).
 ALL STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC STEEL CONSTRUCTION MANUAL.
 NON-SHRINK GROUT SHALL BE 5,000 PSI DAYTON SUPERIOR 1107 ADVANTAGE GROUT OR FOLIUMALENT

- FOUIVALENT.
- BOLTED CONNECTIONS SHALL BE ACCOMPLISHED WITH HIGH-STRENGTH BOLTS CONFORMING TO

- BOLTED CONNECTIONS SHALL BE ACCOMPLISHED WITH HIGH-STRENGTH BOLTS CONFORMING TO ASTM A325 IN STANDARD HOLES UNLESS NOTED OTHERWISE.

 ALL BOLTED CONNECTIONS SHALL BE PRE-TENSIONED UNLESS NOTED OTHERWISE.

 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF ALL ERECTION PROCEDURES AND SEQUENCES WITH REGARD TO TEMPERATURE DIFFERENTIALS.

 WELDING SHALL BE PERFORMED WITH ETOXX ELECTRODES. WELDING SHALL BE DONE BY QUALIFIED WELDERS AND SHALL CONFORM TO THE AWS DLI 1S TRUCTURAL WELDING CODE-STEEL, LATEST EDITION. ALL WELDS ARE INTENDED TO BE CONTINUOUS UNLESS NOTED OTHERWISE. FIELD WELD NOTED THROUGHOUT THE CONTRACT DOCUMENTS ARE ACCEPTABLE LOCATIONS FOR FIELD WELDING AT THE CONTRACT DOCUMENTS ARE ACCEPTABLE LOCATIONS FOR FIELD WELDING AT THE CONTRACTOR'S OPTION. FIELD WELDS MAY BE PERFORMED IN THE SHOP.

- D. GENERAL

 CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS TO MATCH NEW CONSTRUCTION TO EXISTING CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OR SEQUENCE OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT. ETC. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES FOR PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO (NOR SHALL OSSERVATION VISITS TO THE SITE INCLUDE INSPECTION OF THESE ITEMS.)

 STRUCTURAL DRAWINGS ARE A PORTION OF THE CONTRACT DOCUMENTS AND ARE INTENDED TO BE USED WITH ARCHITECTURAL, CIVIL, MECHANICAL, AND ELECTRICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REQUIREMENTS FROM THESE DISCIPLINES INTO THEIR SHOP DRAWINGS AND WORK.

 4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL SCAFFOLDING,
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL SCAFFOLDING, BRACING AND SHORING.
- BRACING AND SHORING.
 CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION. LOADS
 SHALL NOT EXCEED THE DESIGN LIVE LOAD.
 ESTABLISH AND VERIEY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING
 AND ELECTRICAL WITH THE APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO
- CONSTRUCTION.
 NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES
 AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR DO NOT USE SCALED DIMENSIONS TAKEN FROM STRUCTURAL DRAWINGS. CONTACT STRUCTURAL
- ENGINEER IF DIMENSIONAL INFORMATION IS MISSING.
 WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND
- SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.
 ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL
 OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ALASKA.

- E. SHOP DRAWINGS

 1. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY SPECIFICATIONS. CONSTRUCTION DOCUMENTS SHALL NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS. NO MORE THAN THREE SETS OF PRINTS AND ONE SET OF REPRODUCIBLES WILL BE REVIEWED FOR ANY SUBMITTAL.

 THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS SHALL BE FLAGGED UPON HIS REVIEW. VERIFY ALL DIMENSIONS WITH CONTRACT DOCUMENTS.

 3. ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DOCUMENTS SHALL BE CLOUDED BY MANUFACTURER OR FABRICATOR. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES SHALL NOT BE CONSIDERED ALLOWED AFTER ENGINEER'S REVIEW UNLESS PREVIOUSLY NOTED AS ACCEPTABLE BY ENGINEER OR RECORD.

 4. THE ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO CONTRACT DOCUMENTS AT ANY TIME BEFORE OR AFTER SHOP DRAWING REVIEW.

 S. SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. ITEMS OMITTED OR SHOWN
- SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. ITEMS OMITTED OR SHOWN
 INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER OR ARCHITECT ARE NOT TO BE INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCT URAL ENGINEER OR ARCHITECT ARE NOT TOT CONSIDERED CHANGES TO CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE SURE ITEMS ARE CONSTRUCTED TO CONTRACT DOCUMENTS.

 THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY.

 REVIEWING IS ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. RESPONSIBILITY FOR CORRECT MESS AND COMPLETENESS SHALL REST WITH THE CONTRACTOR. SHOP DRAWINGS WILL BE RETURNED FOR RESUBMITTAL IF MAJOR ERRORS ARE FOUND DURING REVIEW.

SPECIAL INSPECTIONS

THE FOLLOWING STRUCTURAL ITEMS REQUIRE SPECIAL INSPECTION PER IBC SECTIONS 1704-1707. THESE INSPECTIONS SHALL BE PERFORMED BY A SPECIAL INSPECTOR APPROVED BY THE CONTRACTING OFFICER TO PERFORM THE TYPES OF INSPECTIONS SPECIFIED. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR INSPECTION AND TESTING THAT ARE NOT PART OF SPECIAL INSPECTIONS.

HIGH STRENGTH BOLTING	100% INSPECTION OF FIELD BOLTED CONNECTIONS USING HIGH STRENGTH BOLTS
WELDING	WEEKLY VISUAL INSPECTION OF FIELD WELDS AND ASSOCIATED NON- DESTRUCTIVE TESTING



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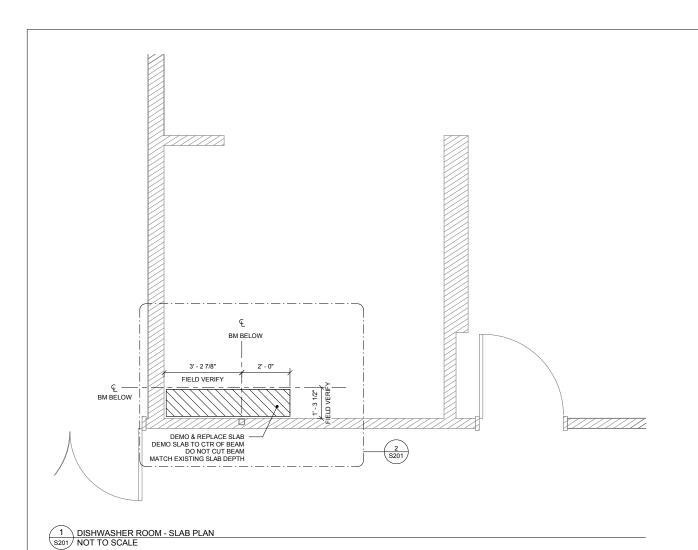


FAIRBANKS PIONEER HOME -KITCHEN FLOOR AND TUB ROOM MODERNIZATIONS

ISSUE DATE 05 APR 2018 COMM. NUMBER 381701 DESIGNED BY I.IA LJA SCALE

 \pm

STRUCTURAL **GENERAL NOTES**





- REMOVE SURFACE CORROSION FROM ACCESSIBLE PORTIONS OF STEEL FRAMING BELOW THIS ROOM.
 APPLY ANTI-CORROSION COATING ON SURFACE OF (E) SLAB, ENTIRE ROOM.
 SIKA ARMATEC 110 EPO CEM, OR APPROVED EQUAL.
 PROVIDE OWNER WITH MINIMUM 5-DAY NOTICE PRIOR TO EXPOSING EXISTING SLAB.
 ENGINEER TO PERFORM A SLAB CONDITION ASSESSMENT IMMEDIATELY AFTER DEMO OF (E) FLOORING AND LEVELING COMPOUND. ADDITIONAL SLAB REPAIR OR REPLACEMENT MAY BE RECOMMENDED AT THAT TIME.



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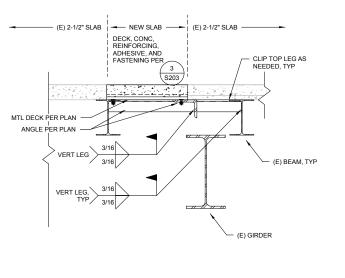


FAIRBANKS PIONEER HOME -KITCHEN FLOOR AND TUB ROOM **MODERNIZATIONS**

ISSUE DATE 05 APR 2018 COMM. NUMBER 381701 DESIGNED BY LJA LJA SCALE

DISHWASHER ROOM -STRUCTURAL **DETAILS**

S201

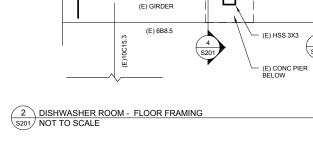


4 DISHWASHER SLAB SUPPORT AT COLUMN S201 NOT TO SCALE

OTHER ANNOTATIONS SIM TO S201

•—— (E) 10WF21 ——●

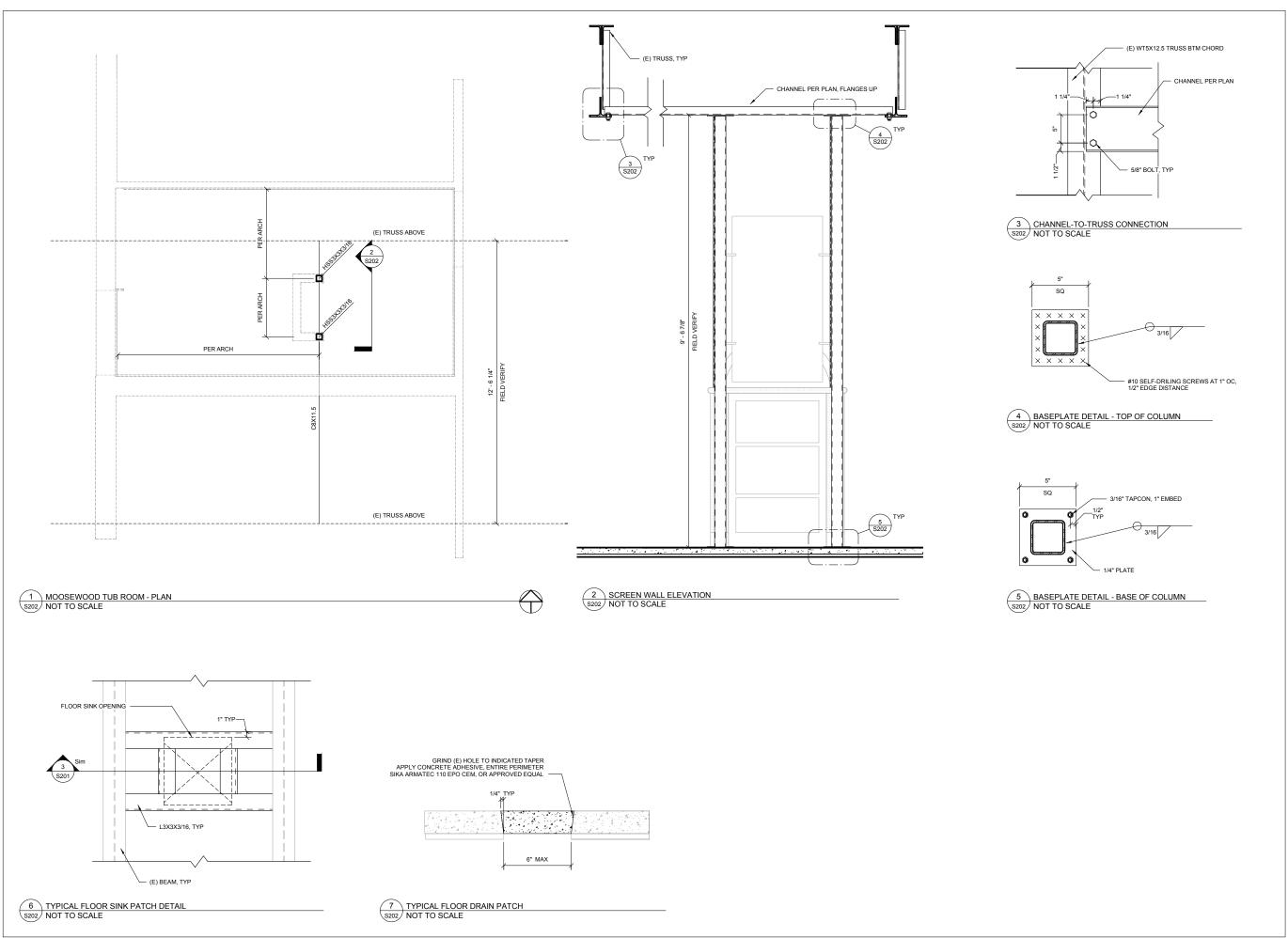
(E) CONC PIER



VULCRAFT 0.6C26, CSV CONFORM MTL DECK, OR EQUAL

EXTENTS OF SLAB DEMO & REPLACE

3 DISHWASHER SLAB SUPPORT SECTION NOT TO SCALE



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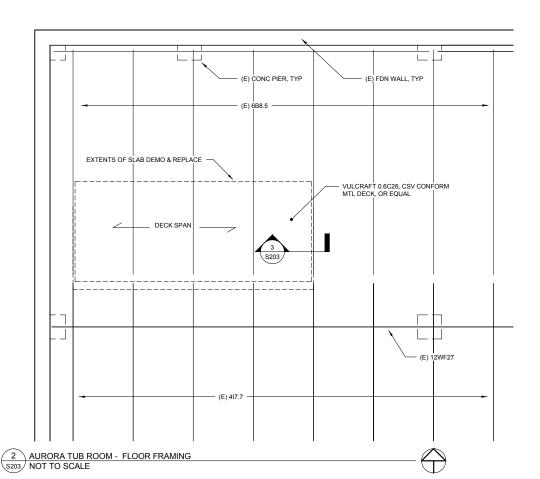
FAIRBANKS PIONEER HOME -KITCHEN FLOOR AND TUB ROOM MODERNIZATIONS

ISSUE DATE 05 APR 2018
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MOOSEWOOD TUB ROOM -STRUCTURAL DETAILS

S202

BM BELOW BM BELOW 1 AURORA TUB ROOM - SLAB PLAN NOT TO SCALE



NEW SLAB (E) 2-1/2" SLAB - CONCRETE ADHESIVE, TYP ENTIRE PERIMETER OF INFILL SLAB SIKA ARMATEC 110 EPO CEM, OR APPROVED EQUAL WWF 6X6 - W2.1XW2.1 MTL DECK PER PLAN - #10 SELF-DRILLING SCREWS @ 6" OC — (E) 6B8.5

3 TYP EDGE OF SLAB REPLACEMENT NOT TO SCALE

SLAB REHABLITATION NOTES

- REMOVE SURFACE CORROSION FROM ACCESSIBLE PORTIONS OF STEEL FRAMING BELOW THIS ROOM.
 APPLY ANTI-CORROSION COATING ON SURFACE OF (E) SLAB, ENTIRE ROOM.
 SIKA ARMATEC 110 EPO CEM, OR APPROVED EQUAL.
 PROVIDE OWNER WITH MINIMUM 5-DAY NOTICE PRIOR TO EXPOSING EXISTING SLAB.
 ENGINEER TO PERFORM A SLAB CONDITION ASSESSMENT IMMEDIATELY AFTER DEMO OF (E) FLOORING AND LEVELING COMPOUND. ADDITIONAL SLAB REPAIR OR REPLACEMENT MAY BE RECOMMENDED AT THAT TIME.



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FAIRBANKS PIONEER HOME -KITCHEN FLOOR AND TUB ROOM **MODERNIZATIONS**

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AURORA TUB ROOM STRUCTURAL **DETAILS**

S203

KEY NAME # & @ A AFF AGT AHU APPR APPROX ARCH ASSOC AUTO BAL BIFF BIFP C C CHWR C CHWR C CHWS C C C C C C C C C C C C C C C C C C C	MECHANICAL ABBREVIATIONS NUMBER AND AT AIR ABOVE FINISHED FLOOR AVERAGE GLYCOL TEMPERATURE AIR HANDLING UNIT AIR PRESSURE DROP APPROXIMATE APPROXIMATE ARCHITECTURAL ASSOCIATED AUTOMATIC BALANCING BELOW FINISHED FLOOR BACKFLOW PREVENTOR COMMON CHILLED WATER RETURN CHILLED WATER RETURN	KEY NAME LGT MAX MECH MIN MTR NC NC NG NIC NO NPSH NTS OAT OBVD OC OD	MECHANICAL ABBREVIATIONS LEAVING GLYCOL TEMPERATURE MAXIMUM MECHANICAL MINIMUM MOTOR NORMALLY CLOSED NOISE CRITERIA NATURAL GAS NOT IN CONTRACT NORMALLY OPEN NET PUMP SUCTION HEAD NOT TO SCALE OVPOSED BLADE VOLUME DAMPER
A AFF AGT AHU APD APPR APPROX ARCH ASSOC AUTO BAL BEF BEP C CHWR CHWS CHC CCC CCC CCC CCC CCC CCC CCC CCC CC	AND AT AIR ABOVE FINISHED FLOOR AVERAGE GLYCOL TEMPERATURE AIR HANDLING UNIT AIR PRESSURE DROP APPROVED APPROVED APPROVED APPROXIMATE ARCHITECTURAL ASSOCIATED AUTOMATIC BALANCING BELOW FINISHED FLOOR BACKFLOW PREVENTOR COMMON CHILLED WATER RETURN	MAX MECH MIN MTR NC NC NG NIC NO NPSH NTS OAT OBVD	MAXIMUM MECHANICAL MINIMUM MOTOR NORMALLY CLOSED NOISE CRITERIA NATURAL GAS NOT IN CONTRACT NORMALLY OPEN NET PUMP SUCTION HEAD NOT TO SCALE OUTSIDE AIR TEMPERATURE
© A AFF AGT AGT AHU APD APPR APPROX ARCH ASSOC AUTO BAL BEF BEP CHWR CHWR CHWS CH CCC CCC CCC CCC CCC CCC CCC CCC CCC	AT AIR ABOVE FINISHED FLOOR AVERAGE GLYCOL TEMPERATURE AIR HANDLING UNIT AIR PRESSURE DROP APPROVED APPROXIMATE ARCHITECTURAL ASSOCIATED AUTOMATIC BALANCING BELOW FINISHED FLOOR BACKFLOW PREVENTOR COMMON CHILLED WATER RETURN	MECH MIN MTR NC NC NG NIC NO NPSH NTS OAT OBVD OC	MECHANICAL MINIMUM MOTOR NORMALLY CLOSED NOISE CRITERIA NATURAL GAS NOT IN CONTRACT NORMALLY OPEN NET PUMP SUCTION HEAD NOT TO SCALE OUTSIDE AIR TEMPERATURE
A AFF AGT AHU APPR APPR APPROX ARCH ASSOC AUTO BBF BF CC CHWR CHWR CHUS CO	AIR ABOVE FINISHED FLOOR AVERAGE GLYCOL TEMPERATURE AIR HANDLING UNIT AIR PRESSURE DROP APPROVED APPROXIMATE ARCHITECTURAL ASSOCIATED AUTOMATIC BALANCING BELOW FINISHED FLOOR BACKFLOW PREVENTOR COMMON CHILLED WATER RETURN	MIN MTR NC NC NC NG NIC NO NPSH NTS OAT OBVD OC	MINIMUM MOTOR NORMALLY CLOSED NOISE CRITERIA NATURAL GAS NOT IN CONTRACT NORMALLY OPEN NET PUMP SUCTION HEAD NOT TO SCALE OUTSIDE AIR TEMPERATURE
AFF AGT AHU APD APPR APPROX ARCH ASSOC AUTO BAL BFF BFP C C CHWR CHWS CI	ABOVE FINISHED FLOOR AVERAGE GLYCOL TEMPERATURE AIR HANDLING UNIT AIR PRESSURE DROP APPROVED APPROVIMATE ARCHITECTURAL ASSOCIATED AUTOMATIC BALANCING BELOW FINISHED FLOOR BACKFLOW PREVENTOR COMMON CHILLED WATER RETURN	MTR NC NC NG NIC NO NPSH NTS OAT OBVD OC	MOTOR NORMALLY CLOSED NOISE CRITERIA NATURAL GAS NOT IN CONTRACT NORMALLY OPEN NET PUMP SUCTION HEAD NOT TO SCALE OUTSIDE AIR TEMPERATURE
AFT AHU APP APPR APPR ASSOC AUTO BEFF BEF BC CHWR CHWS CI GC CO	AVERAGE GLYCOL TEMPERATURE AIR HANDLING UNIT AIR PRESSURE DROP APPROVED APPROXIMATE ARCHITECTURAL ASSOCIATED AUTOMATIC BALANCING BELOW FINISHED FLOOR BACKFLOW PREVENTOR COMMON CHILLED WATER RETURN	NC NG NG NIC NO NPSH NTS OAT OBVD OC	NORMALLY CLOSED NOISE CRITERIA NATURAL GAS NOT IN CONTRACT NORMALLY OPEN NET PUMP SUCTION HEAD NOT TO SCALE OUTSIDE AIR TEMPERATURE
AHU APP APPR APPROX ARCH ASSOC AUTO BAL BEF BEP C C CHWR CHWS CI C C C C C C C C C C C C C C C C C C	AIR HANDLING UNIT AIR PRESSURE DROP APPROVED APPROXIMATE ARCHITECTURAL ASSOCIATED AUTOMATIC BALANCING BELOW FINISHED FLOOR BACKFLOW PREVENTOR COMMON CHILLED WATER RETURN	NC NG NIC NO NPSH NTS OAT OBVD OC	NOISE CRITERIA NATURAL GAS NOT IN CONTRACT NORMALLY OPEN NET PUMP SUCTION HEAD NOT TO SCALE OUTSIDE AIR TEMPERATURE
APD APPR APPROX ARCH ASSOC AUTO BAL BEF BEP C CHWR CHWR CHWS CI C C C C C C C C C C C C C C C C C C	AIR PRESSURE DROP APPROVED APPROVIMATE ARCHITECTURAL ASSOCIATED AUTOMATIC BALANCING BELOW FINISHED FLOOR BACKFLOW PREVENTOR COMMON CHILLED WATER RETURN	NG NIC NO NPSH NTS OAT OBVD OC	NATURAL GAS NOT IN CONTRACT NORMALLY OPEN NET PUMP SUCTION HEAD NOT TO SCALE OUTSIDE AIR TEMPERATURE
APPR APPROX ARCH ASSOC AUTO BAL BEF BEF BC C CHWR CHWS CI GC CO	APPROVED APPROXIMATE ARCHITECTURAL ASSOCIATED AUTOMATIC BALANCING BELOW FINISHED FLOOR BACKFLOW PREVENTOR COMMON CHILLED WATER RETURN	NIC NO NPSH NTS OAT OBVD OC	NOT IN CONTRACT NORMALLY OPEN NET PUMP SUCTION HEAD NOT TO SCALE OUTSIDE AIR TEMPERATURE
APPROX ARCH SSSOC AUTO BAL BEF BEP C C CHWR CHWS CI	APPROXIMATE ARCHITECTURAL ASSOCIATED AUTOMATIC BALANCING BELOW FINISHED FLOOR BACKFLOW PREVENTOR COMMON CHILLED WATER RETURN	NO NPSH NTS OAT OBVD OC	NORMALLY OPEN NET PUMP SUCTION HEAD NOT TO SCALE OUTSIDE AIR TEMPERATURE
ARCH ASSOC AUTO BAL BEF BEF BEF BEHWR BHWS BLG BLG BC	ARCHITECTURAL ASSOCIATED AUTOMATIC BALANCING BELOW FINISHED FLOOR BACKFLOW PREVENTOR COMMON CHILLED WATER RETURN	NPSH NTS OAT OBVD OC	NET PUMP SUCTION HEAD NOT TO SCALE OUTSIDE AIR TEMPERATURE
ASSOC AUTO ASAL BFF BFP C CHWR CHWS CI CI CI CO CO CR CV CW	ASSOCIATED AUTOMATIC BALANCING BELOW FINISHED FLOOR BACKFLOW PREVENTOR COMMON CHILLED WATER RETURN	NTS OAT OBVD OC	NOT TO SCALE OUTSIDE AIR TEMPERATURE
AUTO HALL HEF HEF CHWR CHWS CI	AUTOMATIC BALANCING BELOW FINISHED FLOOR BACKFLOW PREVENTOR COMMON CHILLED WATER RETURN	OAT OBVD OC	OUTSIDE AIR TEMPERATURE
BALL BIFF BIFF C CHWR CHWR CI	BALANCING BELOW FINISHED FLOOR BACKFLOW PREVENTOR COMMON CHILLED WATER RETURN	OBVD OC	
BFF BFP C C C CHWR CHWS C C C C C C C C C C C C C C C C C C C	BELOW FINISHED FLOOR BACKFLOW PREVENTOR COMMON CHILLED WATER RETURN	OC	OPPOSED BLADE VOLUME DAMPER
BFP C CHWR CHWS Cl CLG CO CR CV CW DW	BACKFLOW PREVENTOR COMMON CHILLED WATER RETURN		
CHWR CHWS Cl Cl Cl CO CO CR CV CW CW	COMMON CHILLED WATER RETURN	OD	ON CENTER
CHWR CHWS CLG CO CR CV CW CDB	CHILLED WATER RETURN		OUTSIDE DIAMETER
CHWS CI CI CO CO CR CV CW CO CO		OFCI	OWNER FURNISHED, CONTRACTOR INSTALLI
CI CLG CO CR CV CW OB	CHILLED WATER SUPPLY	OFOI	OWNER FURNISHED, OWNER INSTALLED
CLG CO CR CV CW DB	OFFICE OF THE COURT ET	ORD	OVERFLOW ROOF DRAIN
CO CR CV CW DB	CAST IRON	ORL	OVERFLOW RAIN LEADER
CR CV CW OB	COOLING	OSA	OUTSIDE AIR
CV CW DB	CLEAN OUT	P&T	PRESSURE AND TEMPERATURE
CW DB	CONDENSATE RETURN	PD	PRESSURE DROP
DB .	VALVE COEFFICIENT	PH	PHASE
-	COLD WATER	PRDV	PRESSURE REDUCING VALVE
OB .	DECIBEL	PRV	PRESSURE RELIEF VALVE
	DRYBULB	RA	RETURN AIR
)I	DUCTILE IRON	RD	ROOD DRAIN
OIA	DIAMETER	RHW	RECIRCULATING HOT WATER
N	DOWN	RL	RAIN LEADER
WDI	DOUBLE WIDTH, DOUBLE INLET	RP	RADIANT PANEL
A	EXHAUST AIR	RPM	REVOLUTIONS PER MINUTE
AT	ENTERING AIR TEMPERATURE	S/M	SHEET METAL
F	EXHAUST FAN	S/S	START/STOP
:GT	ENTERING GLYCOL TEMPERATURE	SA	SUPPLY AIR
LEC	ELECTRICAL	SH	SHOWER
SP	EXTERNAL STATIC PRESSURE	SIM	SIMILAR
WT	ENTERING WATER TEMPERATURE	SP	STATIC PRESSURE
XIST	EXISTING	SPEC	SPECIFICATIONS
C	FORWARD CURVED	SS	STAINLESS STEEL
D	FLOOR DRAIN	ST	STEAM
LA	FULL LOAD AMPERAGE	SWSI	SINGLE WIDTH, SINGLE INLET
LEX	FLEXIBLE	TDH	TOTAL DYNAMIC HEAD
P	FIRE PROTECTION	THW	TEMPERED HOT WATER
SA.	GAUGE	TP	TRAP PRIMER
SALV	GALVANIZED	TYP	TYPICAL
SHR	GLYCOL HEATING RETURN	V	VENT
SHS	GLYCOL HEATING SUPPLY	VAV	VARIABLE AIR VOLUME
GI .	GALVANIZED IRON	VERT	VERTICAL
lB	HOSE BIBB	VFD	VARIABLE FREQUENCY DRIVE
łW	HOT WATER	VOL	VOLUME
D	INSIDE DIAMETER	VTR	VENT THROUGH ROOF
E	INVERT ELEVATION	W	WASTE
NSUL	INSULATION	W/	WITH
PS	IRON PIPE SIZE	W/O	WITHOUT
_AT	LEAVING AIR TEMPERATURE	WB	WETBULB
		WCO WHA	WALL CLEAN OUT

	CW	COLD WA
	HW	HOT WATI
	RHW	RECIRCUI
	NG	NATURAL
		EXISTING
INSTALLED		EXISTING
LED		
	PLUMBIN	NG SCHEDULE
	FIXTURE NUMBER	FIXTURE DESCRIPTION
	WC-1	FLUSH VALVE WATER CLOSET
	L-1 {1}	WALL-HUNG
		LAVATORY (ADA)
	SH-1	LAVATORY
		LAVATORY (ADA)

ABBREVIATION

YPES		
LINETYPE	* = 12 = 12	PR
	<u> </u>	DF
	ಶ∠	PR
	=	UN
	-\$	НС
	HQHI	2-V
	NC O C HEATH ENO	3-\
	X	ST
	₽.	TH
	0	

-- CONNECTION SIZE --

WASTE COLD HOT
(IN) WATER WATER
(IN) (IN)

1/2

3/4

3/4

1/2 1. 1.5 GPM

Χ̈́	PRESSURE REDUCING VALVE	+	PIPE CONNECTION
Ż	DRAIN VALVE		PIPE ELBOW TURNED DOWN
₹.	PRESSURE RELIEF VALVE	\multimap	PIPE ELBOW TURNED UP
=	UNION	-	PIPE TEE DOWN
-\$,	HOSE BIBB	\blacksquare	PIPE FLOW ARROW
0.	2-WAY CONTROL VALVE	\bowtie	BALANCING COCK
₩ X	2-WAT CONTROL VALVE		GLOBE VALVE
NC Q C		7	CHECK VALVE
T 至 NO	3-WAY CONTROL VALVE	NS	NON-SLAM CHECK VALVE
Y.	STRAINER WITH BI OWDOWN	\bowtie	ISOLATION VALVE
₹	STRAINER WITH BLOWDOWN		FLOW CONTROL VALVE
	THERMOMETER	\$	AIR VENT
7		Θ	CONNECTION TO EXISTING
Ø	PRESSURE GAUGE	Ť	PRESSURE & TEMPERATURE T
春	PRESSURE GAUGE	=	PIPE GUIDE
•		×	PIPE ANCHOR

MECHANICAL SYMBOLS		
JCING VALVE	—	PIPE CONNECTION
		PIPE ELBOW TURNED DOWN
EF VALVE	— o	PIPE ELBOW TURNED UP
	-	PIPE TEE DOWN
	\blacksquare	PIPE FLOW ARROW
VAI VE	\bowtie	BALANCING COCK
VALVE		GLOBE VALVE
	∇	CHECK VALVE
VALVE	NS.	NON-SLAM CHECK VALVE
BLOWDOWN	\bowtie	ISOLATION VALVE
BLOWDOWN		FLOW CONTROL VALVE
	ø	AIR VENT
	Θ	CONNECTION TO EXISTING
	Ť	PRESSURE & TEMPERATURE TEST P

ALTERNATE #1 ONLY 2080/60/3 NATURAL GAS HEAT, WITHOUT INTERNAL BOOSTER HOBART CL44eN-BAS, OR EQUAL

+	PIPE CONNECTION
	PIPE ELBOW TURNED DOWN
— o	PIPE ELBOW TURNED UP
-	PIPE TEE DOWN
_	PIPE FLOW ARROW
\bowtie	BALANCING COCK
	GLOBE VALVE
Z	CHECK VALVE
NS.	NON-SLAM CHECK VALVE
\bowtie	ISOLATION VALVE
	FLOW CONTROL VALVE
\$	AIR VENT
Θ	CONNECTION TO EXISTING
Ť	PRESSURE & TEMPERATURE TEST PORT
=	PIPE GUIDE

THERMOSTAT - LOCAL BYPASS TIMER	Architects • Engineers • Surveyors 601 College Road Fairbanks AK 99701 907.452.1241 AECC511 designalaska.com
PIPE FLOW ARROW	
DUCT FLOW ARROW	GF. Al. As 49 TH Jennifer M. Holmes 04-Apr-2018 No. ME13114 Attraction

ANNOTATION LEGEND

SENSOR

SPECIFIC NOTE

1

 \bigcirc

T

FAIRBANKS PIONEER HOME -KITCHEN FLOOR AND TUB ROOM **MODERNIZATIONS**

+		
ISSUE DATE		05 APR 2018
COMM. NUMBER	₹	381701
DESIGNED BY		MJN
DRAWN BY		MJN
SCALE	0" -	1"

MECHANICAL ABBREVIATIONS, LEGENDS, AND SCHEDULES

DUCT LEGEND

X/Y (+2) 	INSULATED DUCTWORK DIMENSION SHOWN IS INTERIOR FACE OF SHEET METAL NUMBER INSIDE PARENTHESIS IS THICKNESS OF INSULATION IN INCHES LINED DUCTWORK DIMENSION SHOWN IS INTERIOR FACE OF SHEET METAL NUMBER INSIDE PARENTHESIS IS THICKNESS OF LINING IN INCHES
SUPPLY RETURN EXHAUST X/Y X/Y X/Y	RECTANGULAR DUCTWORK - X/Y X = DIMENSION ON THE PAGE Y = DIMENSION INTO THE PAGE
$\bigotimes_{X \cap \emptyset} \bigotimes_{X \cap \emptyset} \bigotimes_{X \cap \emptyset}$	ROUND DUCTWORK - X"Ø X = DUCT DIAMETER
	RECTANGULAR MITERED ELBOW WITH TURNING VANES RECTANGULAR ELBOW DOWN (INTO THE PAGE) RECTANGULAR ELBOW UP (OUT OF THE PAGE)
-	— FLEXIBLE DUCTWORK

£13	1/2 INCH ROUGH IN FOR SINGLE FIXTURE ONLY	FOR ALL	FLSE LISE 3/4 INCH

MECHANICAL - LINETYPES

FULL NAME

HOT WATER

NATURAL GAS EXISTING

SINGLE SHOWER

FLOOR DRAIN

FLOOR SINK

FLOOR SINK

HOSE BIBB

HOSE BIBB

DISHWASHER

FD-2

FS-1

FS-2

HB-1

HB-2

DW-1

EXISTING TO BE REMOVED

----ROUGH IN SIZE----

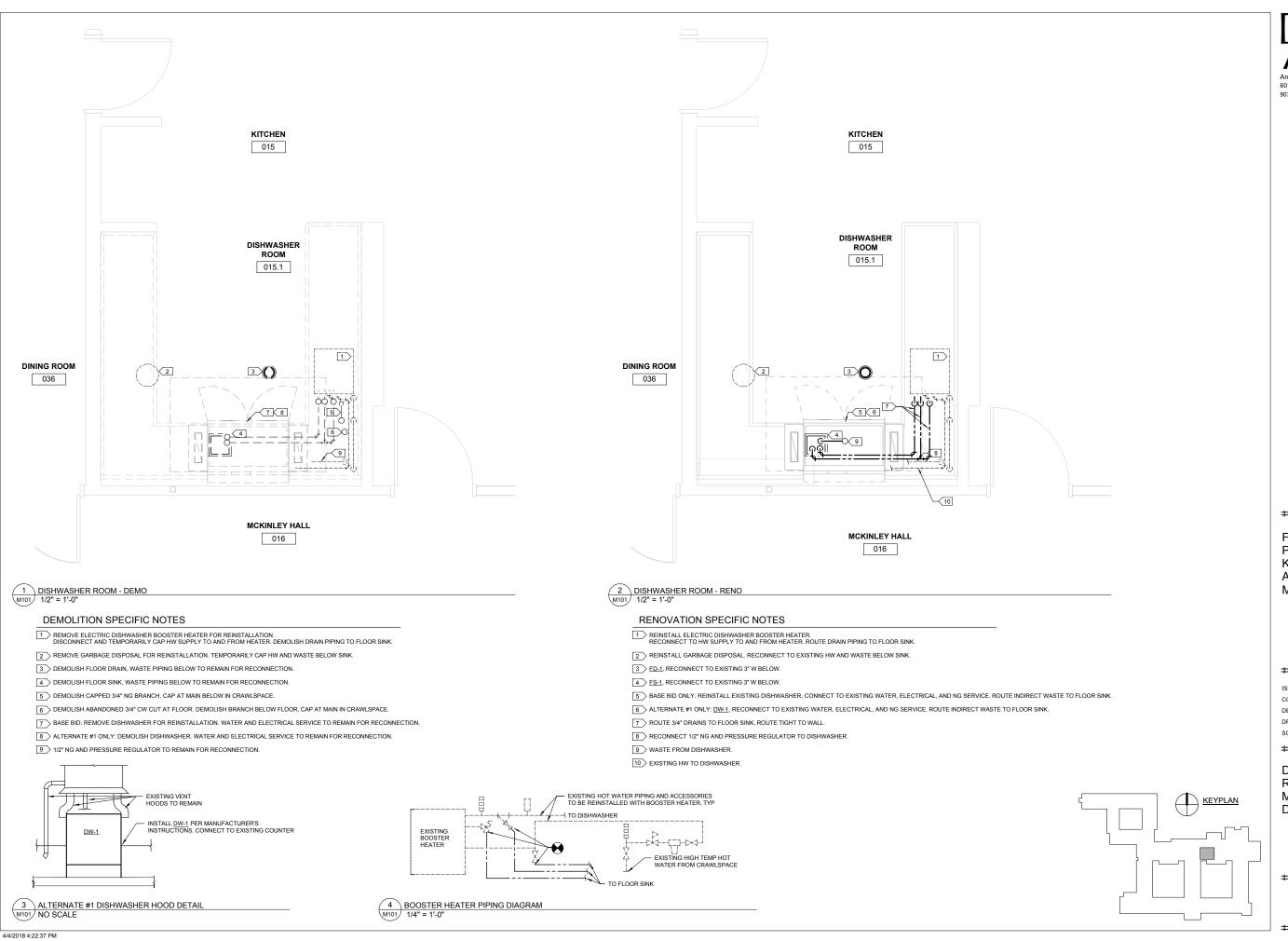
1-1/2

1-1/2

3/4

3/4

VENT COLD WATER



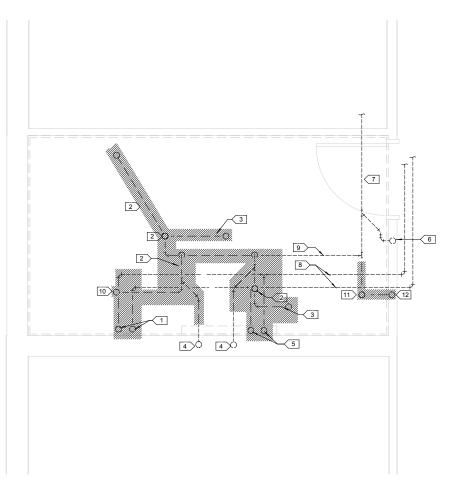
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FAIRBANKS PIONEER HOME -KITCHEN FLOOR AND TUB ROOM **MODERNIZATIONS**

COMM. NUMBER DESIGNED BY

DISHWASHER ROOM -**MECHANICAL DEMO AND RENO**



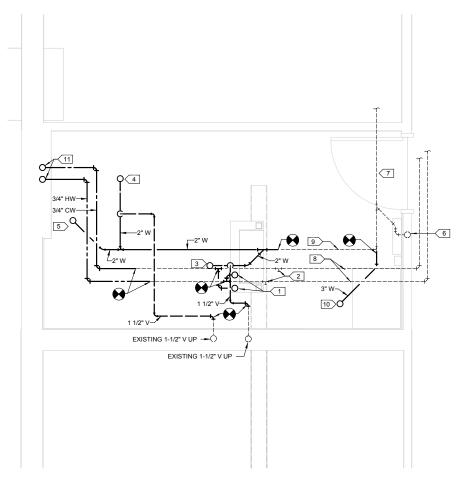
1 MOOSEWOOD TUB ROOM UNDERFLOOR - DEMO 1/2" = 1'-0"

DEMOLITION SPECIFIC NOTES

- 1 DEMOLISH 3/4" HW, 3/4" CW UP TO BATHTUB.
- 2 DEMOLISH 2" W, 1-1/2" V FROM FLOOR DRAIN.
- 3 DEMOLISH 1-1/2" W FROM TRENCH DRAIN.
- 4 EXISTING 1-12" V UP TO REMAIN.
- 5 DEMOLISH 3/4" HW, 3/4" CW UP TO SHOWER.
- 6 EXISTING 2" W UP TO LAVATORY TO REMAIN.
- 7 EXISTING 3" W TO REMAIN.
- 8 EXISTING 3/4" HW, 3/4" CW TO REMAIN.
- 9 EXISTING 2" W TO REMAIN.
- 10 DEMOLISH 2" W FROM FLOOR SINK.
- 11 DEMOLISH 3" W FROM WATER CLOSET, AND 2" V.
- 12 DEMOLISH 2" V UP.

GENERAL NOTES

- 1. ABOVE FLOOR WALLS SHOWN FOR REFERENCE ONLY.
- WASTE AND VENT PIPING SERVING THE MOOSEWOOD TUB ROOM IS COMPRISED OF COPPER DWV PIPE AND FITTINGS.



2 MOOSEWOOD TUB ROOM UNDERFLOOR - RENO 1/2" = 1'-0"

RENOVATION SPECIFIC NOTES

- 1 3/4" HW, 3/4" CW UP TO <u>HB-1</u>, <u>HB-2</u>.
- 2 CAP AT MAIN.
- 3 2" W UP TO <u>FS-2</u>.
- 4 2" W UP TO <u>FD-2</u>.
- 5 UP TO 2" CO.
- 6 EXISTING 2" W UP TO LAVATORY.
- 7 EXISTING 3" W.
- 8 EXISTING 3/4" HW, 3/4" CW.
- 9 EXISTING 2" W.
- 10 UP TO 3" CO.
- 11 UP TO SH-1, LOCATE IN FURRED OUT WALL.



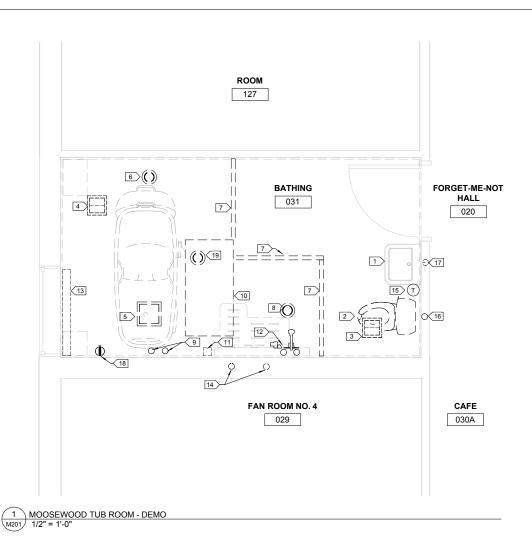
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MOOSEWOOD TUB ROOM -UNDERFLOOR -MECHANICAL DEMO AND RENO

KEYPLAN

M200



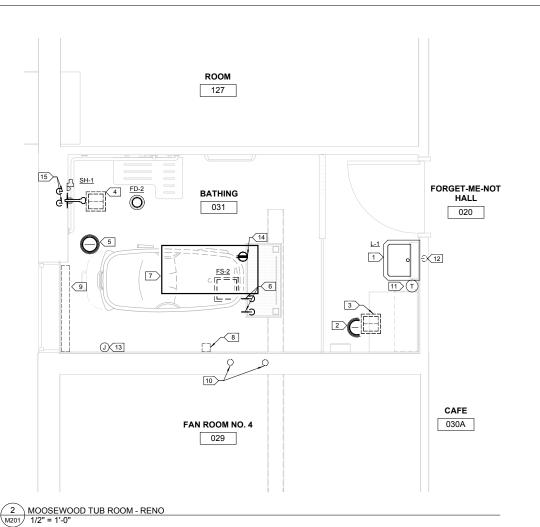
DEMOLITION SPECIFIC NOTES

- 1 DEMOLISH LAVATORY. W, HW, CW, AND V TO REMAIN FOR RECONNECTION.
- 2 DEMOLISH FLOOR MOUNTED WATER CLOSET.
- 3 EXISTING 8/8 EA CEILING GRILLE TO REMAIN.
- 4 EXISTING 8/8 SA CEILING GRILLE TO REMAIN.
- 5 DEMOLISH FLOOR SINK.
- 6 DEMOLISH FLOOR DRAIN.
- $\fbox{7}$ DEMOLISH TRENCH DRAIN TO TOP OF SLAB ELEVATION WITHOUT DAMAGING EXISTING SLAB.
- 8 DEMOLISH FLOOR DRAIN
- $\fbox{9}$ DEMOLISH 3/4" HW, 3/4" CW TUB CONNECTION DOWN THROUGH FLOOR.
- 10 REMOVE RADIANT PANEL FOR REINSTALLATION.
- 11 EXISTING RADIANT PANEL TIMER SWITCH TO REMAIN.
- $\fbox{12$ DEMOLISH SHOWER FIXTURES, CONTROLS, AND 3/4" HW, 3/4" CW SUPPLY.}$
- 13 EXISTING CABINET UNIT HEATER TO REMAIN.
- 14 EXISTING 1-1/2 V TO REMAIN.
- 15 EXISTING THERMOSTAT TO REMAIN.
- 16 DEMOLISH 2" V, CAP AT MAIN IN CEILING.

 17 EXISTING LAVATORY WASTE AND VENT TO REMAIN.
- 18 DEMOLISH GFCI RECEPTACLE AND WEATHERPROOF COVER. CIRCUIT TO REMAIN FOR RECONNECTION.
- 19 DEMOLISH FLOOR DRAIN.

GENERAL NOTES

COORDINATE FIXTURE LOCATIONS WITH ARCHITECTURAL PLANS.
 PATCH FLOOR TO MATCH SURROUNDING AT ALL DEMOLSHED FLOOR DRAINS, FLOOR SINKS, AND TRENCH DRAINS, SEE STRUCTURAL \$202.



RENOVATION SPECIFIC NOTES

- 1) CONNECT TO EXISTING W, HW, CW, AND V. REPLACE HW, AND CW ANGLE STOPS. INSTALL WITH POINT OF USE TEMPERING VALVE.
- 2 3" CO.
- 3 EXISTING 8/8 EA CEILING GRILLE.
- 4 EXISTING 8/8 SA CEILING GRILLE.
- 5 2" CO.
- 6 3/4" HW, 3/4" CW TO <u>HB-1</u>, <u>HB-2</u>.
- $\boxed{7}$ REINSTALL CEILING RADIANT HEATING PANEL, PATCH AND FINISH CEILING TO MATCH SURROUNDING.
- 8 EXISTING RADIANT PANEL TIMER SWITCH TO REMAIN.
- 9 EXISTING CABINET UNIT HEATER TO REMAIN.
- 10 EXISTING 1-1/2 V TO REMAIN.
- 11 EXISTING THERMOSTAT TO REMAIN.
- 12 EXISTING LAVATORY WASTE AND VENT TO REMAIN
- 13 REPLACE COVER WITH JUNCTION BOX COVER PLATE, SPLICE AND EXTEND CIRCUIT TO TUB RECEPTACLE.
- 14 DUPLEX GFCI RECEPTACLE WITH STAINLESS STEEL WEATHERPROOF WHILE IN USE COVER, SERVING TUB.
- 15 3/4" HW, 3/4" CW, TO SH-1.

FAIRBANKS
PIONEER HOME KITCHEN FLOOR
AND TUB ROOM
MODERNIZATIONS

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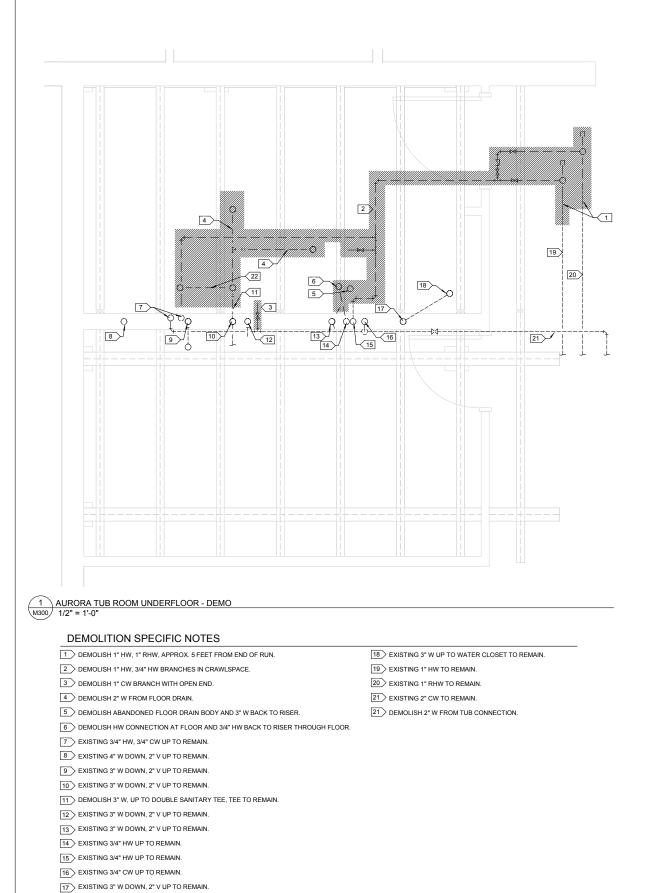
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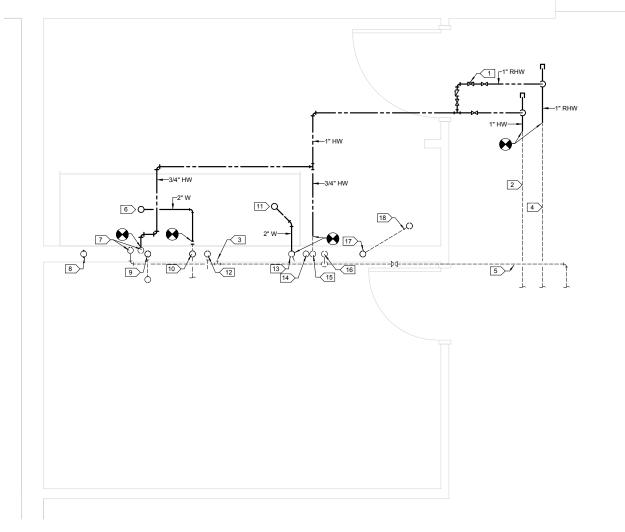
MOOSEWOOD TUB ROOM -MECHANICAL DEMO AND RENO

KEYPLAN

M201







FAIRBANKS PIONEER HOME KITCHEN FLOOR AND TUB ROOM MODERNIZATIONS

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SCALE 0" 1"

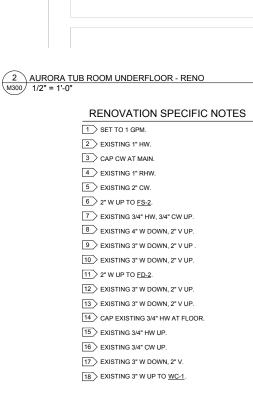
AURORA TUB ROOM -UNDERFLOOR -MECHANICAL DEMO AND RENO

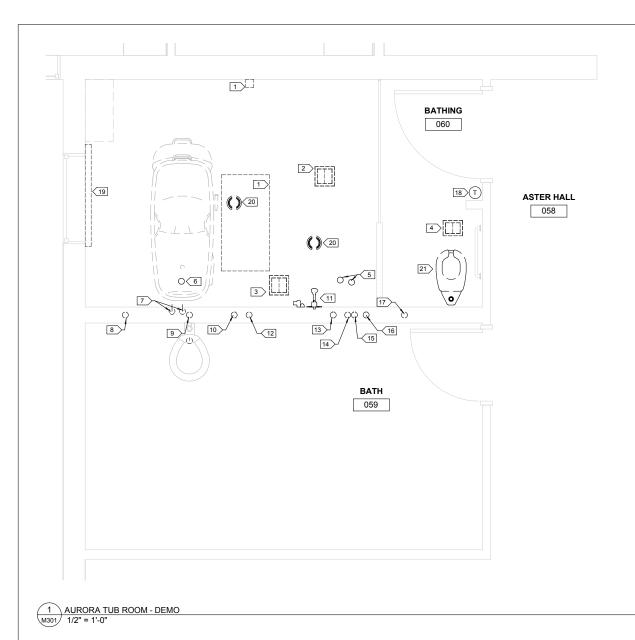
KEYPLAN

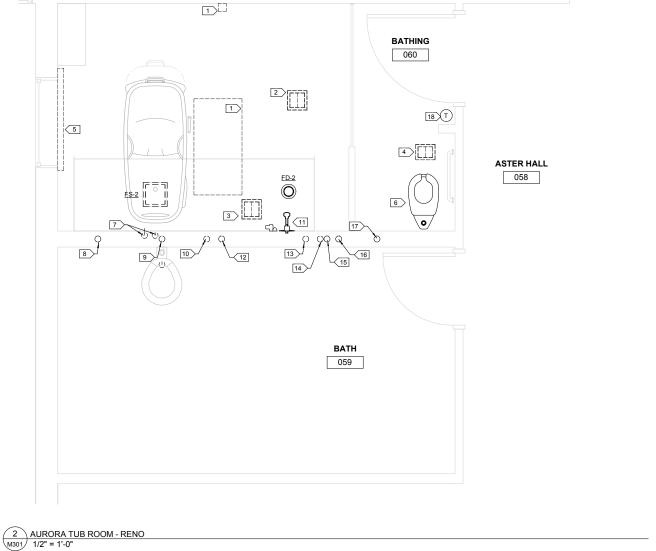
M300

GENERAL NOTES

ABOVE FLOOR WALLS SHOWN FOR REFERENCE ONLY.







18 EXISTING THERMOSTAT.

DEMOLITION SPECIFIC NOTES

1 EXISTING CEILING RADIANT PANEL AND WALL MOUNTED TIMER SWITCH TO REMAIN.

2 EXISTING 8/8 SA CELING GRILLE TO REMAIN.

3 EXISTING 8/8 EA CELING GRILLE TO REMAIN.

4 EXISTING 4/8 EA CELING GRILLE TO REMAIN.

5 DEMOLISH ABANDONED FLOOR DRAIN BODY AND HW CONNECTION.

6 DEMOLISH 2" W TUB CONNECTION.

7 EXISTING 3/4" HW, 3/4" CW UP TO REMAIN. DEMOLISH ISOLATION VALVES IN ROOM.

8 EXISTING 2" V UP TO REMAIN.

9 EXISTING 2" V UP TO REMAIN.

10 EXISTING 2" V UP TO REMAIN.

11 DEMOLISH SHOWER FIXTURES AND CONTROLS. 3/4" HW, 3/4" CW TO REMAIN.

12 EXISTING 2" V UP TO REMAIN.

13 EXISTING 2" V UP TO REMAIN.

14 EXISTING 3/4" HW TO REMAIN.

15 EXISTING 3/4" HW TO REMAIN.

16 EXISTING 3/4" CW TO REMAIN.

17 EXISTING 2" V UP TO REMAIN.

GENERAL NOTES

COORDINATE FIXTURE LOCATIONS WITH ARCHITECTURAL PLANS. PATCH FLOOR TO MATCH SURROUNDING AT ALL DEMOLISHED FLOOR DRAINS, SEE STRUCTURAL \$202.

18 EXISTING THERMOSTAT TO REMAIN.

19 EXISTING CABINET UNIT HEATER TO REMAIN.

20 DEMOLISH FLOOR DRAIN, PATCH FLOOR TO MATCH SURROUNDING.

 $\fbox{21}$ DEMOLISH WATER CLOSET, W AND CW TO REMAIN FOR RECONNECTION.

RENOVATION SPECIFIC NOTES

1 EXISTING CEILING RADIANT PANEL, AND WALL MOUNTED TIMER SWITCH.

2 EXISTING 8/8 SA CELING GRILLE.

3 EXISTING 8/8 EA CELING GRILLE.

4 EXISTING 4/8 EA CELING GRILLE.

5 EXISTING CABINET UNIT HEATER.

6 WC-1, CONNECT TO EXISTING WASTE AND CW.

7 EXISTING 3/4" HW AND 3/4" CW, TO CONNECT TO HB-1 AND HB-2.

8 EXISTING 2" V UP.

9 EXISTING 2" V UP.

10 EXISTING 2" V UP.

11 CONNECT SH-1 TO EXISTING 3/4" HW, 3/4" CW.

12 EXISTING 2" V UP.

13 EXISTING 2" V UP.

14 EXISTING 3/4" HW.

15 EXISTING 3/4" HW.

16 EXISTING 3/4" CW.

17 EXISTING 2" V UP.

PIONEER HOME -KITCHEN FLOOR AND TUB ROOM **MODERNIZATIONS**

KEYPLAN

ISSUE DATE 05 APR 2018 COMM. NUMBER DESIGNED BY SCALE

FAIRBANKS

907.452.1241 AECC511 designalaska.com

AURORA TUB ROOM -**MECHANICAL DEMO AND RENO**

FAIRBANKS PIONEER HOME KITCHEN FLOOR AND TUB ROOM MODERNIZATIONS FAIRBANKS, ALASKA

PROJECT NO.: AJF 19-02C

DIVISION 02	EXISTING CONDITIONS
02 41 00	Demolition
DIVISION 03	CONCRETE
03 30 00	Cast-in-Place Concrete
DIVISION 05	METALS
05 12 00	Structural Steel Framing
DIVISION 06	WOOD, PLASTICS, AND COMPOSITES
06 10 00 06 41 00	Rough Carpentry Architectural Wood Casework
DIVISION 09	FINISHES
09 05 61 09 21 16 09 65 00	Common Work Results For Flooring Preparation Gypsum Board Assemblies Resilient Flooring
DIVISION 10	SPECIALTIES
10 26 01	Solid Surface Sheet Wall Finish
DIVISION 12	FURNISHINGS
12 36 00	Countertops
DIVISION 20	GENERAL MECHANICAL
20 01 00 20 05 00 20 05 11 20 05 29 20 05 53 20 07 00	Operation and Maintenance for Mechanical Common Work Results Common Submittal Requirements for Mechanical Hangers and Supports for Mechanical Identification for Mechanical Insulation for Mechanical
DIVISION 22	PLUMBING
22 05 00 22 05 23 22 11 16	Common Work Results for Plumbing General Duty Valves Domestic Water Piping

Design Alaska, Inc. Index - 1

FAIRBANKS PIONEER HOME KITCHEN FLOOR AND TUB ROOM MODERNIZATIONS FAIRBANKS, ALASKA

PROJECT NO.: AJF 19-02C

22 11 19	Domestic Water Specialties
22 13 16	Sanitary Waste and Vent Piping
22 13 19	Sanitary Waste Piping Specialties
22 42 13	Commercial Water Closets and Urinals
22 42 16	Commercial Lavatories and Sinks
22 42 23	Commercial Showers
22 42 39	Commercial Faucets, Supplies, and Trim

Design Alaska, Inc.

PART 1 GENERAL

PROJECT NO.: AJF 19-02C

1.1 SCOPE: SECTION 02 41 00 - DEMOLITION

- A. Building demolition excluding removal of hazardous materials and toxic substances.
- B. Selective demolition of building elements for alteration purposes.

1.2 RELATED REQUIREMENTS

- A. Section 01 10 00 Summary: Limitations on Contractor's use of site and premises.
- B. Section 01 50 00 Temporary Facilities and Controls: Site fences, security, protective barriers, and waste removal.
- C. Section 01 70 00 Execution and Closeout Requirements: Project conditions; protection of bench marks, survey control points, and existing construction to remain; reinstallation of removed products; temporary bracing and shoring.

1.3 REFERENCE STANDARDS

- A. 29 CFR 1926 U.S. Occupational Safety and Health Standards; current edition.
- B. NFPA 241 Standard for Safeguarding Construction, Alteration, and Demolition Operations; 2013.

PART 2 PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
- B. Standards: Comply with ASSE A10.6 and NFPA 241.

PART 3 EXECUTION

PROJECT NO.: AJF 19-02C

3.1 GENERAL PROCEDURES AND PROJECT CONDITIONS

- A. Comply with other requirements specified in Section.
- B. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.
 - 1. Obtain required permits.
 - 2. Comply with applicable requirements of NFPA 241.
 - 3. Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed; do not allow worker or public access within range of potential collapse of unstable structures.
 - 4. Provide, erect, and maintain temporary barriers and security devices.
 - 5. Use physical barriers to prevent access to areas that could be hazardous to workers or the public.
 - 6. Conduct operations to minimize effects on and interference with adjacent structures and occupants.
 - 7. Do not close or obstruct roadways or sidewalks without permit.
 - 8. Conduct operations to minimize obstruction of public and private entrances and exits; do not obstruct required exits at any time; protect persons using entrances and exits from removal operations.
- C. Do not begin removal until receipt of notification to proceed from.
- D. Do not begin removal until built elements to be salvaged or relocated have been removed.
- E. Protect existing structures and other elements that are not to be removed.
 - 1. Provide bracing and shoring.
 - 2. Prevent movement or settlement of adjacent structures.
 - 3. Stop work immediately if adjacent structures appear to be in danger.

- F. Minimize production of dust due to demolition operations; do not use water if that will result in ice, flooding, sedimentation of public waterways or storm sewers, or other pollution.
- G. If hazardous materials are discovered during removal operations, stop work and notify and; hazardous materials include regulated asbestos containing materials, lead, PCB's, and mercury.
- H. Perform demolition in a manner that maximizes salvage and recycling of materials.
 - 1. Dismantle existing construction and separate materials.
 - 2. Set aside reusable, recyclable, and salvageable materials; store and deliver to collection point or point of reuse.

3.2 SELECTIVE DEMOLITION FOR ALTERATIONS

- A. Drawings showing existing construction and utilities are based on casual field observation and existing record documents only.
 - 1. Verify that construction and utility arrangements are as indicated.
 - 2. Report discrepancies to before disturbing existing installation.
 - 3. Beginning of demolition work constitutes acceptance of existing conditions that would be apparent upon examination prior to starting demolition.
- B. Separate areas in which demolition is being conducted from other areas that are still occupied.
 - 1. Provide, erect, and maintain temporary dustproof partitions of construction specified in Section 01 50 00 in locations indicated on drawings.
- C. Remove existing work as indicated and as required to accomplish new work.
 - 1. Remove rotted wood, corroded metals, and deteriorated masonry and concrete; replace with new construction specified.
 - 2. Remove items indicated on drawings.
- D. Services (Including but not limited to HVAC, Plumbing, Fire Protection, Electrical, and Telecommunications): Remove existing systems and equipment as indicated.
 - 1. Maintain existing active systems that are to remain in operation; maintain access to equipment and operational components.

- 2. Where existing active systems serve occupied facilities but are to be replaced with new services, maintain existing systems in service until new systems are complete and ready for service.
- 3. See Section 01 10 00 for other limitations on outages and required notifications.
- 4. Verify that abandoned services serve only abandoned facilities before removal.
- 5. Remove abandoned pipe, ducts, conduits, and equipment, including those above accessible ceilings; remove back to source of supply where possible, otherwise cap stub and tag with identification.
- E. Protect existing work to remain.
 - 1. Prevent movement of structure; provide shoring and bracing if necessary.
 - 2. Perform cutting to accomplish removals neatly and as specified for cutting new work.
 - 3. Repair adjacent construction and finishes damaged during removal work.
 - 4. Patch as specified for patching new work.

3.3 DEBRIS AND WASTE REMOVAL

- A. Remove debris, junk, and trash from site.
- B. Leave site in clean condition, ready for subsequent work.
- C. Clean up spillage and wind-blown debris from public and private lands.

END OF SECTION

PART 1 GENERAL

1.1 SCOPE: SECTION 03 30 00 - CAST-IN-PLACE CONCRETE

- A. Section includes cast-in-place concrete, including formwork, reinforcement, concrete materials, mixture design, placement procedures, and finishes, for the following:
 - 1. Suspended slabs.

1.2 DEFINITIONS

A. Cementitious Materials: Portland cement alone or in combination with one or more of the following: blended hydraulic cement, fly ash and other pozzolans, ground granulated blast-furnace slag, and silica fume; subject to compliance with requirements.

1.3 ACTION SUBMITTALS

- A. Product Data: For the following, as applicable:
 - 1. Steel reinforcing.
 - 2. Admixtures.
- B. Design Mixtures: For each concrete mixture. Submit alternate design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.

1.4 INFORMATIONAL SUBMITTALS

A. Field quality-control reports.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C 94/C 94M requirements for production facilities and equipment.
- B. Testing Agency Qualifications: An independent agency, acceptable to authorities having jurisdiction, qualified according to ASTM C 1077 and ASTM E 329 for testing indicated. Agency shall be qualified and shall meet all requirements to operate in the state of Alaska.

- C. ACI Publications: Comply with the following unless modified by requirements in the Contract Documents:
 - 1. ACI 301, "Specifications for Structural Concrete," Sections 1 through 5.
 - 2. ACI 117, "Specifications for Tolerances for Concrete Construction and Materials."
- D. Concrete Testing Service: Engage a qualified independent testing agency to perform material evaluation tests and to design concrete mixtures.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Steel Reinforcement: Deliver, store, and handle steel reinforcement to prevent bending and damage.

PART 2 PRODUCTS

2.1 FORM-FACING MATERIALS

A. Form surfaces may be of any material which provides the required structural strength and surface properties to produce specified finish.

2.2 STEEL REINFORCEMENT

A. Plain-Steel Welded Wire Reinforcement: ASTM A 185/A 185M, plain, fabricated from asdrawn steel wire into flat sheets.

2.3 CONCRETE MIXTURES

- A. Plant Mix:
 - 1. Strength:
 - a. Interior structural application (elevated floor slabs, housekeeping pads, etc.): 4000 psi concrete with zero air entrainment additives.
 - 2. Proportions: ACI 211:1.
 - 3. Cement:
 - a. Use Portland Cement, ASTM C 150, of the same type, brand, and source, throughout Project:
 - b. Quantity as needed for concrete strength.

4. Aggregates:

- a. ASTM C 33, coarse aggregate or better, graded. Provide aggregates from a single source
- b. Maximum aggregate size to be 3/8-inch minus for finished slabs and curbs, 75 percent of minimum clear space between steel or between steel and forms in formed concrete and 3/8-inch for grouting concrete masonry.
- c. Fine Aggregate to be free of materials with deleterious reactivity to alkali in cement.

5. Water:

- a. ASTM C 94/C 94M and potable.
- b. Maximum Water/Cement ratio: 0.45.
- 6. Slump of concrete: Slump of concrete shall not be changed by addition of water at the jobsite unless indicated on batch ticket, added water shall not exceed that indicated on batch ticket. Super-plasticizers shall be used to change the slump as indicated on the concrete plant batch ticket.
 - a. Structural applications: 6 inches maximum at truck chute discharge point.

2.4 ADMIXTURES

- A. Chemical Admixtures: Provide admixtures certified by manufacturer to be compatible with other admixtures and that will not contribute water-soluble chloride ions exceeding those permitted in hardened concrete. Do not use calcium chloride or admixtures containing calcium chloride.
 - 1. Water-Reducing Admixture: ASTM C 494/C 494M, Type A.

2.5 CURING MATERIALS

A. Water: Potable.

2.6 FABRICATING REINFORCEMENT

A. Fabricate steel reinforcement according to CRSI's "Manual of Standard Practice."

2.7 CONCRETE MIXING

- A. Ready-Mixed Concrete: Measure, batch, mix, and deliver concrete according to ASTM C 94/C 94M, and furnish batch ticket information.
 - 1. When air temperature is between 85 and 90 degrees Fahrenheit, reduce mixing and delivery time from 1-1/2 hours to 75 minutes; when air temperature is above 90 degrees Fahrenheit, reduce mixing and delivery time to 60 minutes.

PART 3 EXECUTION

3.1 FORMWORK

- A. Design, erect, shore, brace, and maintain formwork, according to ACI 301, to support vertical, lateral, static, and dynamic loads, and construction loads that might be applied, until structure can support such loads.
- B. The sole responsibility for form design and for any resulting structural damage due to form failure rests with the Contractor.

3.2 STEEL REINFORCEMENT

- A. General: Comply with CRSI's "Manual of Standard Practice" for placing reinforcement.
- B. Clean reinforcement of loose rust and mill scale, earth, ice, and other foreign materials that would reduce bond to concrete.
- C. Accurately position, support, and secure reinforcement against displacement. Locate and support reinforcement with bar supports to maintain minimum concrete cover. Do not tack weld crossing reinforcing bars.
- D. Set wire ties with ends directed into concrete, not toward exposed concrete surfaces.
- E. Install welded wire reinforcement in longest practicable lengths on bar supports spaced to minimize sagging. Lap edges and ends of adjoining sheets at least one mesh spacing. Offset laps of adjoining sheet widths to prevent continuous laps in either direction. Lace overlaps with wire.

3.3 JOINTS

A. General: Construct joints true to line with faces perpendicular to surface plane of concrete.

B. Construction Joints:

1. Use a bonding agent at locations where fresh concrete is placed against hardened or partially hardened concrete surfaces.

3.4 CONCRETE PLACEMENT

- A. Before placing concrete, verify that installation of formwork, reinforcement, and embedded items is complete and that required inspections have been performed.
- B. Water is to be added per instructions as written on the batch ticket.
- C. Before test sampling and placing concrete, water may be added at Project site, subject to limitations of ACI 301.
- D. Deposit concrete continuously in one layer or in horizontal layers of such thickness that no new concrete will be placed on concrete that has hardened enough to cause seams or planes of weakness. Place sections continuously. Deposit concrete to avoid segregation.
 - 1. Deposit concrete in horizontal layers of depth to not exceed formwork design pressures and in a manner to avoid inclined construction joints.
 - Consolidate placed concrete with mechanical vibrating equipment according to ACI 301.
 - 3. Do not use vibrators to transport concrete inside forms. Insert and withdraw vibrators vertically at uniformly spaced locations to rapidly penetrate placed layer and at least 6 inches into preceding layer. Do not insert vibrators into lower layers of concrete that have begun to lose plasticity. At each insertion, limit duration of vibration to time necessary to consolidate concrete and complete embedment of reinforcement and other embedded items without causing mixture constituents to segregate.
- E. Deposit and consolidate concrete for floors and slabs in a continuous operation, within limits of construction joints, until placement of a panel or section is complete.
 - 1. Consolidate concrete during placement operations so concrete is thoroughly worked around reinforcement and other embedded items and into corners.
 - 2. Maintain reinforcement in position on chairs during concrete placement.
 - 3. Screed slab surfaces with a straightedge and strike off to correct elevations.
 - 4. Slope surfaces uniformly to drains where required.

5. Begin initial floating using bull floats or darbies to form a uniform and opentextured surface plane, before excess bleedwater appears on the surface. Do not further disturb slab surfaces before starting finishing operations.

3.5 FINISHING FLOORS AND SLABS

- A. General: Comply with ACI 302.1R recommendations for screeding, re-straightening, and finishing operations for concrete surfaces. Do not wet concrete surfaces.
- B. Float Finish: Consolidate surface with power-driven floats or by hand floating if area is small or inaccessible to power driven floats. Re-straighten, cut down high spots, and fill low spots. Repeat float passes and re-straightening until surface is left with a uniform, smooth, granular texture.
- C. Trowel Finish: After applying float finish, apply first troweling and consolidate concrete by hand or power-driven trowel. Continue troweling passes and re-straighten until surface is free of trowel marks and uniform in texture and appearance. Grind smooth any surface defects that would telegraph through applied coatings or floor coverings.
 - 1. Apply a trowel finish to all surfaces.
 - 2. Finish and measure surface so gap at any point between concrete surface and an unleveled, freestanding, 10 feet long straightedge resting on two high spots and placed anywhere on the surface does not exceed 3/16-inch.

3.6 CONCRETE PROTECTING AND CURING

- A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection and ACI 301 for hot-weather protection during curing.
- B. Formed Surfaces: Cure formed concrete surfaces, including underside of beams, supported slabs, and other similar surfaces. If forms remain during curing period, moist cure after loosening forms. If removing forms before end of curing period, continue curing for the remainder of the curing period.
- C. Unformed Surfaces: Begin curing immediately after finishing concrete. Cure unformed surfaces, including floors and slabs, concrete floor toppings, and other surfaces.
- D. Cure concrete according to ACI 308.1, by one or a combination of the following methods:
 - 1. Moisture Curing: Keep surfaces continuously moist for not less than seven days with the following materials:

a. Water.

- b. Continuous water-fog spray.
- Absorptive cover, water saturated, and kept continuously wet. Cover concrete surfaces and edges with 12-inch lap over adjacent absorptive covers.
- 2. Moisture-Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover for curing concrete, placed in widest practicable width, with sides and ends lapped at least 12 inches, and sealed by waterproof tape or adhesive. Cure for not less than 7 days. Immediately repair any holes or tears during curing period using cover material and waterproof tape.
 - a. Moisture cure or use moisture-retaining covers to cure concrete surfaces to receive floor coverings.
 - b. Moisture cure or use moisture-retaining covers to cure concrete surfaces to receive penetrating liquid floor treatments.
 - c. Cure concrete surfaces to receive floor coverings with either a moistureretaining cover or a curing compound that the manufacturer certifies will not interfere with bonding of floor covering used on Project.
- 3. Curing Compound: Apply uniformly in continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Maintain continuity of coating and repair damage during curing period.
 - a. Removal: After curing period has elapsed, remove curing compound without damaging concrete surfaces by method recommended by curing compound manufacturer.

3.7 CONCRETE SURFACE REPAIRS

- A. Defective Concrete: Repair and patch defective areas when approved by Engineer. Remove and replace concrete that cannot be repaired and patched to Engineer's approval.
- B. Repair materials and installation may be used, subject to Engineer's approval.

3.8 FIELD QUALITY CONTROL

A. Testing and Inspecting: Engage a qualified testing and inspecting agency to perform tests and inspections and to submit reports.

B. Inspections:

- 1. Verification of use of required design mixture.
- 2. Verification of concrete strength before removal of shores and forms from beams and slabs.
- C. Concrete Tests: Testing of composite samples of fresh concrete obtained according to ASTM C 172 shall be performed according to the following requirements:
 - 1. Testing Frequency: Obtain one composite sample.
 - 2. Slump: ASTM C 143/C 143M; one test at point of placement for each composite sample.
 - 3. Air Content: ASTM C 231, pressure method, for normal-weight concrete; one test for each composite sample.
 - 4. Concrete Temperature: ASTM C 1064/C 1064M; one test for each composite sample.
 - 5. Compression Test Specimens: ASTM C 31/C 31M.
 - a. Cast and laboratory cure two sets of two standard cylinder specimens for each composite sample.
 - 6. Compressive-Strength Tests: ASTM C 39/C 39M; test one set of two laboratory-cured specimens at 7 days and one set of two specimens at 28 days.
 - a. A compressive-strength test shall be the average compressive strength from a set of two specimens obtained from same composite sample and tested at age indicated.
 - 7. Strength of each concrete mixture will be satisfactory if every average of any three consecutive compressive-strength tests equals or exceeds specified compressive strength and no compressive-strength test value falls below specified compressive strength by more than 500 psi.
 - 8. Test results shall be reported in writing to Engineer, concrete manufacturer, and Contractor within 48 hours of testing. Reports of compressive-strength tests shall contain Project identification name and number, date of concrete placement, name of concrete testing and inspecting agency, location of concrete batch in Work, design compressive strength at 28 days, concrete mixture proportions and materials, compressive breaking strength, and type of break for both 7 and 28-day tests.

- 9. Nondestructive Testing: Impact hammer, sonoscope, or other nondestructive device may be permitted by Engineer but will not be used as sole basis for approval or rejection of concrete.
- 10. Additional Tests: Testing and inspecting agency shall make additional tests of concrete when test results indicate that slump, air entrainment, compressive strengths, or other requirements have not been met, as directed by Engineer. Testing and inspecting agency may conduct tests to determine adequacy of concrete by cored cylinders complying with ASTM C 42/C 42M or by other methods as directed by Engineer.
- 11. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.
- 12. Correct deficiencies in the Work that test reports and inspections indicate do not comply with the Contract Documents.
- D. Measure floor and slab flatness and levelness according to ASTM E 1155 within 24 hours of finishing.

END OF SECTION

PART 1 GENERAL

PROJECT NO.: AJF 19-02C

- 1.1 SCOPE: SECTION 05 12 00 STRUCTURAL STEEL FRAMING
 - A. Section Includes:
 - 1. Structural steel.
 - 2. Steel Decking.

1.2 ACTION SUBMITTALS

- A. Product Data: For the following, as applicable:
 - 1. Primer.
- B. Shop Drawings: Show fabrication of structural-steel components.
 - 1. Include details of cuts, connections, splices, camber, holes, and other pertinent data.
 - 2. Include embedment drawings.
 - 3. Indicate welds by standard AWS symbols, distinguishing between shop and field welds, and show size, length, and type of each weld. Show backing bars that are to be removed and supplemental fillet welds where backing bars are to remain.
 - 4. Indicate type, size, and length of bolts, distinguishing between shop and field bolts. Identify pretensioned and slip-critical high-strength bolted connections.

1.3 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For qualified installer, fabricator, and testing agency.
- B. Welding certificates.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: Engage an experienced Installer who has completed structural steel work similar in material, design, and extent to that indicated for this Project and with a record of successful in-service performance.

- B. Fabricator Qualifications: Engage a firm experienced in fabricating structural steel similar to that indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to fabricate structural steel without delaying the Work.
- C. Comply with applicable provisions of the following specifications and documents:
 - 1. AISC's "Specification for Structural Steel Buildings--Allowable Stress Design and Plastic Design."
 - 2. AISC's "Load and Resistance Factor Design (LFRD) Specification for Structural Steel Buildings."
 - 3. AISC's "Seismic Provisions for Structural Steel Buildings."
 - 4. ASTM A 6 "Specification for General Requirements for Rolled Steel Plates, Shapes, Sheet Piling, and Bars for Structural Use."
 - 5. Research Council on Structural Connections' (RCSC) "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."
 - 6. Research Council on Structural Connections' (RCSC) "Load and Resistance Factor Design Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."
- D. Welding Standards: Comply with applicable provisions of AWS D1.1 "Structural Welding Code--Steel."
 - Present evidence that each welder has satisfactorily passed AWS qualification tests for welding processes involved and, if pertinent, has undergone rectification.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver structural steel to Project site in such quantities and at such times to ensure continuity of installation.
- B. Store materials to permit easy access for inspection and identification. Keep steel members off ground and spaced by using pallets, dunnage, or other supports and spacers. Protect steel members and packaged materials from corrosion and deterioration.
 - Do not store materials on structure in a manner that might cause distortion, damage, or overload to members or supporting structures. Repair or replace damaged materials or structures as directed.

- C. Store fasteners in a protected place in sealed containers with manufacturer's labels intact.
 - 1. Fasteners may be repackaged provided Owner's testing and inspecting agency observes repackaging and seals containers.

PART 2 PRODUCTS

2.1 STRUCTURAL-STEEL MATERIALS

- A. W-Shapes and Channels: ASTM A 992/A 992M or ASTM A 572/A 572M, Grade 50.
- B. Angles, Plates, and Bar: ASTM A 36/A 36M.
- C. Square/Rectangular HSS: ASTM A500 Grade B.
- D. Welding Electrodes: Comply with AWS requirements.

2.2 BOLTS, CONNECTORS, AND ANCHORS

- A. High-Strength Bolts, Nuts, and Washers: ASTM A 325, Type 1, heavy-hex steel structural bolts; ASTM A 563, Grade C, heavy-hex carbon-steel nuts; and ASTM F 436, Type 1, hardened carbon-steel washers; all with plain finish.
- B. Threaded Bolts: ASTM A 449.
 - 1. Nuts: ASTM A 563 heavy-hex carbon steel.
 - 2. Washers: ASTM F 436, Type 1, hardened carbon steel.
 - 3. Finish: Plain.

2.3 NONCOMPOSITE FORM DECK

- A. Non-composite Form Deck: Fabricate ribbed-steel sheet non-composite form-deck panels to comply with "SDI Specifications and Commentary for Non-composite Steel Form Deck," in SDI Publication No. 31, with the minimum section properties indicated, and with the following:
 - 1. Galvanized-Steel Sheet: ASTM A 653/A 653M, Structural Steel (SS), Grade 33, G30 zinc coating.
 - 2. Profile Depth: 9/16-inch.
 - 3. Design Uncoated-Steel Thickness: 0.0179-inch.

4. Span Condition: As indicated.

5. Side Laps: Overlapped.

2.4 PRIMER

A. Primer: Steel shall be delivered shop primed, except for surfaces to be galvanized, fireproofed, field welded, or bolted in slip critical connection.

2.5 FABRICATION

- A. Column Splices are not permitted without prior approval by Engineer, except at locations noted in drawings.
- B. Structural Steel: Fabricate and assemble in shop to greatest extent possible. Fabricate according to AISC's "Code of Standard Practice for Steel Buildings and Bridges" and AISC 360.
 - 1. Identify high-strength structural steel according to ASTM A 6/A 6M and maintain markings until structural steel has been erected.
 - 2. Mark and match-mark materials for field assembly.
 - 3. Complete structural-steel assemblies, including welding of units, before starting shop-priming operations.
- C. Thermal Cutting: Perform thermal cutting by machine to greatest extent possible.
 - 1. Plane thermally cut edges to be welded to comply with requirements in AWS D1.1/D1.1M.
- D. Bolt Holes: Cut, drill, or punch standard bolt holes perpendicular to metal surfaces.
- E. Finishing: Accurately finish ends of columns and other members transmitting bearing loads.

2.6 SHOP CONNECTIONS

- A. High-Strength Bolts: Shop install high-strength bolts according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts" for type of bolt and type of joint specified.
 - 1. Joint Type: Snug tightened unless indicated as pre-tensioned or slip-critical in drawings.

B. Weld Connections: Comply with AWS D1.1/D1.1M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting welding work.

2.7 SHOP PRIMING

- A. Surface Preparation: Clean surfaces to be painted. Remove loose rust and mill scale and spatter, slag, or flux deposits. Prepare surfaces according to the coating manufacturer's requirements but not less than following specifications and standards:
 - 1. SSPC-SP 3, "Power Tool Cleaning."
- B. Priming: Immediately after surface preparation, apply primer according to manufacturer's written instructions and at rate recommended by SSPC to provide a minimum dry film thickness of 1.5 mils. Use priming methods that result in full coverage of joints, corners, edges, and exposed surfaces.
 - 1. Apply two coats of shop paint to surfaces that are inaccessible after assembly or erection. Change color of second coat to distinguish it from first.

2.8 SOURCE QUALITY CONTROL

- A. Correct deficiencies in Work that test reports and inspections indicate does not comply with the Contract Documents.
 - 1. Additional testing, at Contractor's expense, will be performed to determine compliance of corrected Work with specified requirements.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Before erection proceeds, and with steel Erector present, verify elevations of concreteand masonry-bearing surfaces and locations of anchor rods, bearing plates, and other embedments for compliance with requirements.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Provide temporary shores, guys, braces, and other supports during erection to keep structural steel secure, plumb, and in alignment against temporary construction loads and loads equal in intensity to design loads. Remove temporary supports when permanent structural steel, connections, and bracing are in place unless otherwise indicated.

3.3 ERECTION

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- A. Set structural steel accurately in locations and to elevations indicated and according to AISC 303 and AISC 360.
- B. Base and Bearing Plates: Clean concrete- and masonry-bearing surfaces of bond-reducing materials, and roughen surfaces prior to setting plates. Clean bottom surface of plates.
- C. Maintain erection tolerances of structural steel within AISC's "Code of Standard Practice for Steel Buildings and Bridges."
- D. Align and adjust various members that form part of complete frame or structure before permanently fastening. Before assembly, clean bearing surfaces and other surfaces that will be in permanent contact with members. Perform necessary adjustments to compensate for discrepancies in elevations and alignment.
 - 1. Level and plumb individual members of structure.
- E. Splice members only where indicated.
- F. Do not use thermal cutting during erection.
- G. Do not enlarge unfair holes in members by burning or using drift pins. Ream holes that must be enlarged to admit bolts.

3.4 FIELD CONNECTIONS

- A. No column splices will be permitted unless prior approval is obtained from Engineer.
- B. High-Strength Bolts: Install high-strength bolts according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts" for type of bolt and type of joint specified.
 - 1. Joint Type: Snug tightened unless indicated on drawings as pre-tensioned or slip-critical.
- C. Weld Connections: Comply with AWS D1.1/D1.1M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting welding work.
 - 1. Comply with AISC 303 and AISC 360 for bearing, alignment, adequacy of temporary connections, and removal of paint on surfaces adjacent to field welds.

3.5 FIELD QUALITY CONTROL

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- A. Testing Agency: Owner will engage a qualified independent testing and inspecting agency to inspect field welds and high-strength bolted connections.
- B. Bolted Connections: Bolted connections will be inspected according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."
- C. Welded Connections: Field welds will be visually inspected according to AWS D1.1/D1.1M.
- D. Correct deficiencies in Work that test reports and inspections indicate does not comply with the Contract Documents.

3.6 REPAIRS AND PROTECTION

- A. Touchup Painting: Immediately after rust removal of existing steel and erection of new steel, clean exposed areas where primer is damaged or missing and paint with the same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.
 - 1. Clean and prepare surfaces by SSPC-SP 2 hand-tool cleaning or SSPC-SP 3 power-tool cleaning.

END OF SECTION

PART 1 GENERAL

PROJECT NO.: AJF 19-02C

1.1 SCOPE: SECTION 06 10 00 - ROUGH CARPENTRY

- A. This section includes the following:
 - 1. Non-structural dimension lumber framing.
 - 2. Concealed wood blocking, nailers, and supports.
 - 3. Miscellaneous wood nailers, furring, and grounds.

1.2 REFERENCE STANDARDS

- A. AWC (WFCM) Wood Frame Construction Manual for One- and Two-Family Dwellings; 2015
- B. ASTM A153/A153M Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2009.
- C. PS 20 American Softwood Lumber Standard; 2010.

1.3 SUBMITTALS

A. Product Data: Provide technical data on wood preservative materials and application instructions.

1.4 DELIVERY, STORAGE, AND HANDLING

A. General: Cover wood products to protect against moisture. Support stacked products to prevent deformation and to allow air circulation.

PART 2 PRODUCTS

2.1 GENERAL REQUIREMENTS

A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies.

- 1. If no species is specified, provide any species graded by the agency specified; if no grading agency is specified, provide lumber graded by any grading agency meeting the specified requirements.
- 2. Grading Agency: Any grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee (www.alsc.org) and who provides grading service for the species and grade specified; provide lumber stamped with grade mark unless otherwise indicated.
- B. Lumber fabricated from old growth timber is not permitted.

2.2 DIMENSION LUMBER FOR CONCEALED APPLICATIONS

- A. Sizes: Nominal sizes as indicated on drawings, S4S.
- B. Moisture Content: S-dry or MC19.
- C. Stud Framing (2 by 2 through 2 by 6):
 - 1. Grade: No. 2.
- D. Miscellaneous Framing, Blocking, Nailers, Grounds, and Furring:
 - 1. Lumber: S4S, No. 2 or Standard Grade.
 - 2. Boards: Standard or No. 3.

2.3 ACCESSORIES

- A. Fasteners and Anchors:
 - 1. Metal and Finish: Hot-dipped galvanized steel complying with ASTM A153/A153M for high humidity and preservative-treated wood locations, unfinished steel elsewhere.

PART 3 EXECUTION

3.1 PREPARATION

A. Coordinate installation of rough carpentry members specified in other sections.

3.2 INSTALLATION - GENERAL

- A. Select material sizes to minimize waste.
- B. Reuse scrap to the greatest extent possible; clearly separate scrap for use on site as accessory components, including: shims, bracing, and blocking.

3.3 FRAMING INSTALLATION

- A. Set structural members level, plumb, and true to line. Discard pieces with defects that would lower required strength.
- B. Make provisions for temporary construction loads, and provide temporary bracing sufficient to maintain structure in true alignment and safe condition until completion of erection and installation of permanent bracing.
- C. Install structural members full length without splices unless otherwise specifically detailed.
- D. Comply with member sizes, spacing, and configurations indicated, and fastener size and spacing indicated, but not less than required by applicable codes and AWC (WFCM) Wood Frame Construction Manual.

3.4 BLOCKING, NAILERS, AND SUPPORTS

- A. Provide framing and blocking members as indicated or as required to support finishes, fixtures, specialty items, and trim.
- B. In framed assemblies that have concealed spaces, provide solid wood fireblocking as required by applicable local code, to close concealed draft openings between floors and between top story and roof/attic space; other material acceptable to code authorities may be used in lieu of solid wood blocking.
- C. In walls, provide blocking attached to studs as backing and support for wall-mounted items, unless item can be securely fastened to two or more studs or other method of support is explicitly indicated.
- D. Where ceiling-mounting is indicated, provide blocking and supplementary supports above ceiling, unless other method of support is explicitly indicated.
- E. Provide the following specific non-structural framing and blocking:
 - 1. Cabinets and shelf supports.
 - 2. Grab bars.

- 3. Towel and bath accessories.
- 4. Wall-mounted door stops.
- 5. Joints of rigid wall coverings that occur between studs.

3.5 TOLERANCES

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- A. Framing Members: 1/4-inch from true position, maximum.
- B. Variation from Plane (Other than Floors): 1/4-inch in 10 feet maximum, and 1/4-inch in 30 feet maximum.

3.6 FIELD QUALITY CONTROL

A. See Section 01 40 00 - Quality Requirements, for additional requirements.

3.7 CLEANING

- A. Do not leave any wood, shavings, sawdust, etc. on the ground or buried in fill.
- B. Prevent sawdust and wood shavings from entering the storm drainage system.

END OF SECTION

PART 1 GENERAL

PROJECT NO.: AJF 19-02C

1.1 SCOPE: SECTION 06 41 00 - ARCHITECTURAL WOOD CASEWORK

- A. This section includes the following:
 - 1. Specially fabricated cabinet units.
 - 2. Cabinet hardware.
 - 3. Preparation for installing utilities.

1.2 RELATED REQUIREMENTS

- A. Section 01 61 16 Volatile Organic Compound (VOC) Content Restrictions.
- B. Section 06 10 00 Rough Carpentry: Support framing, grounds, and concealed blocking.
- C. Section 12 36 00 Countertops.

1.3 REFERENCE STANDARDS

- A. AWI/AWMAC/WI (AWS) Architectural Woodwork Standards; 2014.
- B. AWI (QCP) Quality Certification Program; current edition at www.awiqcp.org.
- C. BHMA A156.9 American National Standard for Cabinet Hardware; 2010.
- D. NEMA LD 3 High-Pressure Decorative Laminates; 2005.

1.4 SUBMITTALS

- A. See Section 01 33 00 Submittal Procedures, for submittal procedures.
- B. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories.
- C. Product Data: Provide data for hardware accessories.
- D. Samples: Submit actual sample items of proposed pulls, hinges, shelf standards, and locksets, demonstrating hardware design, quality, and finish.

1.5 QUALITY ASSURANCE

- A. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of documented experience.
 - 1. Company with at least one project in the past 5 years with value of woodwork within 20 percent of cost of woodwork for this Project.
 - 2. Accredited participant in the specified certification program prior to the commencement of fabrication and throughout the duration of the project.

B. Quality Certification:

- Provide labels or certificates indicating that the installed work complies with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade or grades specified.
- 2. Provide designated labels on shop drawings as required by certification program.
- 3. Provide designated labels on installed products as required by certification program.
- 4. Submit certifications upon completion of installation that verifies this work is in compliance with specified requirements.
- 5. Replace, repair, or rework all work for which certification is refused.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Protect units from moisture damage.

1.7 FIELD CONDITIONS

A. During and after installation of custom cabinets, maintain temperature and humidity conditions in building spaces at same levels planned for occupancy.

PART 2 PRODUCTS

2.1 CABINETS

A. Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.

- B. Plastic Laminate Faced Cabinets: Custom grade.
- C. Cabinets at Moosewood Tub Room:
 - 1. Finish Exposed Exterior Surfaces: Decorative laminate.
 - 2. Finish Exposed Interior Surfaces: Solid phenolic.
 - 3. Finish Semi-Exposed Surfaces: Solid phenolic
 - 4. Finish Concealed Surfaces: Manufacturer's option.
 - 5. Door and Drawer Front Edge Profiles: Square edge with thin applied band.
 - 6. Casework Construction Type: Type B Face-frame.
 - 7. Grained Face Layout for Cabinet and Door Fronts: Flush panel.
 - a. Custom Grade: Doors, drawer fronts and false fronts wood grain to run and match vertically within each cabinet unit.
 - 8. Adjustable Shelf Loading: 50 pounds per square foot.

2.2 WOOD-BASED COMPONENTS

- A. Wood fabricated from old growth timber is not permitted.
- B. Wood fabricated from timber recovered from riverbeds or otherwise abandoned is permitted, unless otherwise noted, provided it is clean and free of contamination; identify source; provide lumber re-graded by an inspection service accredited by the American Lumber Standard Committee, Inc.

2.3 LAMINATE MATERIALS

- A. Manufacturers:
 - 1. Formica Corporation; Laminate: www.formica.com.
 - 2. Panolam Industries International, Inc; Nevamar; Laminate: www.nevamar.com.
 - 3. Wilsonart; Laminate: www.wilsonart.com/#sle.
- B. High Pressure Decorative Laminate (HPDL): NEMA LD 3, types as recommended for specific applications.

- C. Provide specific types as indicated.
 - 1. Horizontal Surfaces: HGL, 0.039-inch nominal thickness, through color, color as selected, finish as indicated.
 - 2. Vertical Surfaces: VGL, 0.020-inch nominal thickness, through color, color as selected, finish as indicated.

2.4 ACCESSORIES

A. Adhesive: Type recommended by fabricator to suit application.

2.5 HARDWARE

- A. Hardware: BHMA A156.9, types as recommended by fabricator for quality grade specified.
- B. Adjustable Shelf Supports: Standard side-mounted system using recessed metal shelf standards or multiple holes for pin supports and coordinated self rests, satin chrome finish, for nominal 1-inch spacing adjustments.
- C. Drawer and Door Pulls: "U" shaped wire pull, steel with satin finish, 4-inch centers.
- D. Hinges: European style concealed self-closing type, steel with satin finish.
 - 1. Manufacturers:
 - a. Grass America Inc; Institutional Hinges: www.grassusa.com/#sle.
 - b. Grass America Inc; Tiomos Hinge System: www.grassusa.com/#sle.
 - c. Hardware Resources; www.hardwareresources.com.
 - d. Hettich America, LP; www.hettich.com/#sle.
 - e. Blum, Inc; www.blum.com.

2.6 SITE FINISHING MATERIALS

A. Stain, Shellac, Varnish, and Finishing Materials: In compliance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.

2.7 FABRICATION

- A. Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.
- B. Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single length.
- C. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arises.
 - 1. Apply laminate backing sheet to reverse side of plastic laminate finished surfaces.
 - 2. Cap exposed plastic laminate finish edges with material of same finish and pattern.

2.8 SHOP FINISHING

- A. Finish work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), Section 5 Finishing for grade specified and as follows:
 - 1. Opaque:
 - a. System 2, Lacquer, Precatalyzed.
 - b. Color: As selected by Architect.
 - c. Sheen: Semigloss.
 - d. Products:
 - 1) Sherwin-Williams Sher-Wood F3 Kemvar Plus Conversion Varnish, AWI Finishing System 2.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify adequacy of backing and support framing.

3.2 INSTALLATION

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- A. Install work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade indicated.
- B. Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level.
- C. Use fixture attachments in concealed locations for wall mounted components.
- D. Carefully scribe casework abutting other components, with maximum gaps of 1/32-inch. Do not use additional overlay trim for this purpose.
- E. Secure cabinets to floor using appropriate angles and anchorages.
- F. Countersink anchorage devices at exposed locations. Conceal with solid wood plugs of species to match surrounding wood; finish flush with surrounding surfaces.

3.3 ADJUSTING

- A. Adjust installed work.
- B. Adjust moving or operating parts to function smoothly and correctly.

3.4 CLEANING

A. Clean casework, counters, shelves, hardware, fittings, and fixtures.

END OF SECTION

PART 1 GENERAL

1.1 SCOPE: SECTION 09 05 61 - COMMON WORK RESULTS FOR FLOORING PREPARATION

- A. This section includes the following:
 - 1. This section applies to all floors identified in the contract documents as to receive the following types of floor coverings:
 - a. Resilient sheet flooring.
 - 2. Removal of existing floor coverings.
 - 3. Preparation of new and existing concrete floor slabs for installation of floor coverings.
 - 4. Testing of concrete floor slabs for moisture and alkalinity (pH).
 - 5. Remediation of concrete floor slabs due to unsatisfactory moisture or alkalinity (pH) conditions.
 - a. Contractor shall perform all specified remediation of concrete floor slabs. If such remediation is indicated by testing agency's report and is due to a condition not under Contractor's control or could not have been predicted by examination prior to entering into the contract, a contract modification will be issued.
 - 6. Remedial floor coatings.

1.2 REFERENCE STANDARDS

- A. ASTM C109/C109M Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or (50-mm) Cube Specimens); 2013.
- B. ASTM C472 Standard Test Methods for Physical Testing of Gypsum, Gypsum Plasters and Gypsum Concrete; 1999 (Reapproved 2014).
- C. ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring; 2011.
- D. ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride; 2011.

- E. ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes; 2011.
- F. RFCI (RWP) Recommended Work Practices for Removal of Resilient Floor Coverings; Resilient Floor Covering Institute; October 2011.

1.3 ADMINISTRATIVE REQUIREMENTS

A. Coordinate scheduling of cleaning and testing, so that preliminary cleaning has been completed for at least 24 hours prior to testing.

1.4 SUBMITTALS

- A. Visual Observation Report: For existing floor coverings to be removed.
- B. Floor Covering and Adhesive Manufacturers' Product Literature: For each specific combination of substrate, floor covering, and adhesive to be used; showing:
 - 1. Moisture and alkalinity (pH) limits and test methods.
 - 2. Manufacturer's required bond/compatibility test procedure.

C. Testing Agency's Report:

- 1. Description of areas tested; include floor plans and photographs if helpful.
- 2. Summary of conditions encountered.
- 3. Moisture and alkalinity (pH) test reports.
- 4. Copies of specified test methods.
- 5. Recommendations for remediation of unsatisfactory surfaces.
- 6. Product data for recommended remedial coating.
- 7. Submit report to Architect.
- 8. Submit report not more than two business days after conclusion of testing.
- D. Adhesive Bond and Compatibility Test Report.
- E. Copy of <u>RFCI (RWP)</u>, Recommended Work Practices for Removal of Resilient Floor Coverings.

1.5 QUALITY ASSURANCE

- A. Moisture and alkalinity (pH) testing shall be performed by an independent testing agency employed and paid by Contractor.
- B. Contractor may perform adhesive and bond test with his own personnel or hire a testing agency.
- C. Testing Agency Qualifications: Independent testing agency experienced in the types of testing specified.
 - 1. Submit evidence of experience consisting of at least three test reports of the type required, with project Owner's project contact information.
- D. Contractor's Responsibility Relating to Independent Agency Testing:
 - 1. Provide access for and cooperate with testing agency.
 - 2. Confirm date of start of testing at least 10 days prior to actual start.
 - 3. Allow at least 4 business days on site for testing agency activities.
 - 4. Achieve and maintain specified ambient conditions.
 - 5. Notify Architect when specified ambient conditions have been achieved and when testing will start.

1.6 FIELD CONDITIONS

- A. Maintain ambient temperature in spaces where concrete testing is being performed, and for at least 48 hours prior to testing, at not less than 65 degrees F or more than 85 degrees F.
- B. Maintain relative humidity in spaces where concrete testing is being performed, and for at least 48 hours prior to testing, at not less than 40 percent and not more than 60 percent.

PART 2 PRODUCTS

2.1 MATERIALS

A. Patching Compound: Floor covering manufacturer's recommended product, suitable for conditions, and compatible with adhesive and floor covering. In the absence of any recommendation from flooring manufacturer, provide a product with the following characteristics:

- 1. Cementitious moisture-, mildew-, and alkali-resistant compound, compatible with floor, floor covering, and floor covering adhesive, and capable of being feathered to nothing at edges.
- 2. Compressive Strength: 3000 psi, minimum, after 28 days, when tested in accordance with ASTM C109/C109M or ASTM C472, whichever is appropriate.
- B. Alternate Flooring Adhesive: Floor covering manufacturer's recommended product, suitable for the moisture and pH conditions present; low-VOC. In the absence of any recommendation from flooring manufacturer, provide a product recommended by adhesive manufacturer as suitable for substrate and floor covering and for conditions present.
- C. Remedial Floor Coating: Single- or multi-layer coating or coating/overlay combination intended by its manufacturer to resist water vapor transmission to degree sufficient to meet flooring manufacturer's emission limits, resistant to the level of alkalinity (pH) found, and suitable for adhesion of flooring without further treatment.
 - 1. Thickness: As required for application and in accordance with manufacturer's installation instructions.
 - 2. Use product recommended by testing agency.

PART 3 EXECUTION

3.1 CONCRETE SLAB PREPARATION

- A. Perform following operations in the order indicated:
 - 1. Existing concrete slabs (on-grade and elevated) with existing floor coverings:
 - a. Visual observation of existing floor covering, for adhesion, water damage, alkaline deposits, and other defects.
 - b. Removal of existing floor covering.
 - 2. Existing concrete slabs with coatings or penetrating sealers/hardeners/dust-proofers:
 - a. Do not attempt to remove coating or penetrating material.
 - b. Do not abrade surface.
 - 3. Preliminary cleaning.

- 4. Moisture vapor emission tests; 3 tests in the first 1000 square feet and one test in each additional 1000 square feet, unless otherwise indicated or required by flooring manufacturer.
- 5. Internal relative humidity tests; in same locations as moisture vapor emission tests, unless otherwise indicated.
- 6. Alkalinity (pH) tests; in same locations as moisture vapor emission tests, unless otherwise indicated.
- 7. Specified remediation, if required.
- 8. Patching, smoothing, and leveling, as required.
- 9. Other preparation specified.
- 10. Adhesive bond and compatibility test.
- 11. Protection.

B. Remediations:

- Active Water Leaks or Continuing Moisture Migration to Surface of Slab: Correct this condition before doing any other remediation; re-test after correction.
- 2. Excessive Moisture Emission or Relative Humidity: If an adhesive that is resistant to the level of moisture present is available and acceptable to flooring manufacturer, use that adhesive for installation of the flooring; if not, apply remedial floor coating or remedial sheet membrane over entire suspect floor area.
- 3. Excessive Alkalinity (pH): If remedial floor coating is necessary to address excessive moisture, no additional remediation is required; if not, if an adhesive that is resistant to the level present is available and acceptable to the flooring manufacturer, use that adhesive for installation of the flooring; otherwise, apply a skim coat of specified patching compound over entire suspect floor area.

3.2 REMOVAL OF EXISTING FLOOR COVERINGS

- A. Comply with local, State, and federal regulations and recommendations of RFCI Recommended Work Practices for Removal of Resilient Floor Coverings, as applicable to floor covering being removed.
- B. Dispose of removed materials in accordance with local, State, and federal regulations and as specified.

3.3 PRELIMINARY CLEANING

- A. Clean floors of dust, solvents, paint, wax, oil, grease, asphalt, residual adhesive, adhesive removers, film-forming curing compounds, sealing compounds, alkaline salts, excessive laitance, mold, mildew, and other materials that might prevent adhesive bond.
- B. Do not use solvents or other chemicals for cleaning.

3.4 MOISTURE VAPOR EMISSION TESTING

- A. Where the floor covering manufacturer's requirements conflict with either the referenced test method or this specification, comply with the manufacturer's requirements.
- B. Where this specification conflicts with the referenced test method, comply with the requirements of this section.
- C. Test in accordance with ASTM F1869 and as follows.
- D. Plastic sheet test and mat bond test may not be substituted for the specified ASTM test method, as those methods do not quantify the moisture content sufficiently.
- E. In the event that test values exceed floor covering manufacturer's limits, perform remediation as indicated. In the absence of manufacturer limits, perform remediation if test values exceed 3 pounds per 1000 square feet per 24 hours.
- F. Report: Report the information required by the test method.

3.5 ALKALINITY TESTING

- A. Where the floor covering manufacturer's requirements conflict with either the referenced test method or this specification, comply with the manufacturer's requirements.
- B. The following procedure is the equivalent of that described in ASTM F710, repeated here for the Contractor's convenience.
- C. Use a wide range alkalinity (pH) test paper, its associated chart, and distilled or deionized water.
- D. Place several drops of water on a clean surface of concrete, forming a puddle approximately 1-inch in diameter. Allow the puddle to set for approximately 60 seconds, then dip the alkalinity (pH) test paper into the water, remove it, and compare immediately to chart to determine alkalinity (pH) reading.

E. In the event that test values exceed floor covering manufacturer's limits, perform remediation as indicated. In the absence of manufacturer limits, perform remediation if alkalinity (pH) test value is over 10.

3.6 PREPARATION

- A. See individual floor covering section(s) for additional requirements.
- B. Comply with requirements and recommendations of floor covering manufacturer.
- C. Fill and smooth surface cracks, grooves, depressions, control joints and other non-moving joints, and other irregularities with patching compound.
- D. Do not fill expansion joints, isolation joints, or other moving joints.

3.7 ADHESIVE BOND AND COMPATIBILITY TESTING

A. Comply with requirements and recommendations of floor covering manufacturer.

3.8 APPLICATION OF REMEDIAL FLOOR COATING

A. Comply with requirements and recommendations of coating manufacturer.

3.9 PROTECTION

A. Cover prepared floors with building paper or other durable covering.

END OF SECTION

PART 1 GENERAL

1.1 SCOPE: SECTION 09 21 16 - GYPSUM BOARD ASSEMBLIES

- A. This section includes the following:
 - 1. Metal stud wall framing.
 - 2. Acoustic insulation.
 - 3. Cementitious backing board.
 - 4. Joint treatment and accessories.

1.2 RELATED REQUIREMENTS

A. Section 06 10 00 - Rough Carpentry: Wood blocking product and execution requirements.

1.3 REFERENCE STANDARDS

- A. ANSI A108.11 American National Standard Specifications for Interior Installation of Cementitious Backer Units; 2010 (Reaffirmed 2016).
- B. ANSI A118.9 American National Standard Specifications for Test Methods and Specifications for Cementitious Backer Units; 1999 (Reaffirmed 2016).
- C. ASTM C475/C475M Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board; 2015.
- D. ASTM C645 Standard Specification for Nonstructural Steel Framing Members; 2014.
- E. ASTM C665 Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing; 2012.
- F. ASTM C754 Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products; 2015.
- G. ASTM C840 Standard Specification for Application and Finishing of Gypsum Board; 2013.

- H. ASTM C954 Standard Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Steel Studs From 0.033 in. (0.84 mm) to 0.112 in. (2.84 mm) in Thickness; 2015.
- I. ASTM C1002 Standard Specification for Steel Self-Piercing Tapping Screws for Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs; 2014.
- J. ASTM C1047 Standard Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base; 2014a.
- K. ASTM C1325 Specification for Non-Asbestos Fiber-Mat Reinforced Cementitious Backer Units; 2014.
- L. ASTM D3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber; 2012.
- M. GA-216 Application and Finishing of Gypsum Board; 2013.

1.4 SUBMITTALS

- A. See Section 01 33 00 Submittal Procedures, for submittal procedures.
- B. Product Data: Provide data on metal framing, gypsum board, accessories, and joint finishing system.

PART 2 PRODUCTS

2.1 METAL FRAMING MATERIALS

- A. Non-Loadbearing Framing System Components: ASTM C645; galvanized sheet steel, of size and properties necessary to comply with ASTM C754 for the spacing indicated, with maximum deflection of wall framing of L/120 at 5 psf.
 - 1. Studs: "C" shaped with flat or formed webs with knurled faces.
 - 2. Runners: U shaped, sized to match studs.

2.2 BOARD MATERIALS

- A. Manufacturers Gypsum-Based Board:
 - 1. CertainTeed Corporation; www.certainteed.com.

- 2. Georgia-Pacific Gypsum; www.gpgypsum.com.
- 3. National Gypsum Company; www.nationalgypsum.com/#sle.
- 4. USG Corporation; www.usg.com.
- B. Backing Board for Moosewood Tub Room:
 - 1. Application: Surfaces behind solid surface wall finish in Tub Room.
 - 2. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.
 - ANSI Cement-Based Board: Non-gypsum-based; aggregated Portland cement panels with glass fiber mesh embedded in front and back surfaces complying with ANSI A118.9 or ASTM C1325.
 - a. Thickness: 1/2-inch.

2.3 ACCESSORIES

- A. Acoustic Insulation: ASTM C665; preformed glass fiber, friction fit type, unfaced. Thickness: Existing to remain; match existing thickness as required to provide insulation at entire perimeter of room.
- B. Acoustic Sealant: Acrylic emulsion latex or water-based elastomeric sealant; do not use solvent-based non-curing butyl sealant.
- C. Beads, Joint Accessories, and Other Trim: ASTM C1047, rigid plastic, galvanized steel, or rolled zinc, unless noted otherwise.
 - 1. Expansion Joints:
 - a. Type: V-shaped PVC with tear away fins.
- D. Joint Materials: ASTM C475/C475M and as recommended by gypsum board manufacturer for project conditions.
- E. Screws for Fastening of Gypsum Panel Products to Cold-Formed Steel Studs Less than 0.033-inch in Thickness and Wood Members: ASTM C1002; self-piercing tapping screws, corrosion resistant.
- F. Screws for Fastening of Gypsum Panel Products to Steel Members from 0.033 to 0.112 inch in Thickness: ASTM C954; steel drill screws, corrosion resistant.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that project conditions are appropriate for work of this section to commence.

3.2 FRAMING INSTALLATION

- A. Metal Framing: Install in accordance with ASTM C754 and manufacturer's instructions.
- B. Studs: Space studs at 16 inches on center.
 - 1. Extend partition framing to ceiling in all locations unless otherwise noted.
 - 2. Partitions Terminating at Ceiling: Attach ceiling runner securely to ceiling track in accordance with manufacturer's instructions.
- C. Blocking: Install wood blocking for support of:
 - 1. Wall mounted cabinets.
 - 2. Plumbing fixtures.
 - Toilet/bath accessories.

3.3 ACOUSTIC ACCESSORIES INSTALLATION

- A. Acoustic Insulation: Place tightly within spaces, around cut openings, behind and around electrical and mechanical items within partitions, and tight to items passing through partitions.
- B. Acoustic Sealant: Install in accordance with manufacturer's instructions.
 - 1. Seal around all penetrations by conduit, pipe, ducts, and rough-in boxes, except where firestopping is provided.

3.4 BOARD INSTALLATION

- A. Comply with ASTM C840, GA-216, and manufacturer's instructions. Install to minimize butt end joints, especially in highly visible locations.
- B. Single-Layer Non-Rated: Install gypsum board in most economical direction, with ends and edges occurring over firm bearing.

C. Cementitious Backing Board: Install over steel framing members where indicated, in accordance with ANSI A108.11 and manufacturer's instructions.

3.5 INSTALLATION OF TRIM AND ACCESSORIES

- A. Control Joints: Place control joints consistent with lines of building spaces and as directed.
- B. Corner Beads: Install at external corners, using longest practical lengths.

3.6 JOINT TREATMENT

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- A. Tape, fill, and sand exposed joints, edges, and corners to produce smooth surface ready to receive finishes.
 - 1. Feather coats of joint compound so that camber is maximum 1/32-inch.

3.7 TOLERANCES

A. Maximum Variation of Finished Gypsum Board Surface from True Flatness: 1/8-inch in 10 feet in any direction.

END OF SECTION

PART 1 GENERAL

PROJECT NO.: AJF 19-02C

1.1 SCOPE: SECTION 09 65 00 - RESILIENT FLOORING

- A. This section includes the following:
 - 1. Resilient sheet flooring.
 - 2. Installation accessories.

1.2 RELATED REQUIREMENTS

A. Section 09 05 61 - Common Work Results for Flooring Preparation: Independent agency testing of concrete slabs, removal of existing floor coverings, cleaning, and preparation.

1.3 REFERENCE STANDARDS

- A. ASTM E648 Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source; 2014c.
- B. ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring; 2011.
- C. ASTM F970 Standard Test Method for Static Load Limit; 2007 (Reapproved 2011).
- D. ASTM F1303 Standard Specification for Sheet Vinyl Floor Covering with Backing; 2004 (Reapproved 2014).
- E. ASTM F1913 Standard Specification for Vinyl Sheet Floor Covering Without Backing; 2004 (Reapproved 2014).
- F. NFPA 253 Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source; 2015.
- G. RFCI (RWP) Recommended Work Practices for Removal of Resilient Floor Coverings; Resilient Floor Covering Institute; October 2011.

1.4 SUBMITTALS

A. See Section 01 33 00 - Submittal Procedures, for submittal procedures.

- B. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.
- C. Shop Drawings: Indicate seaming plans and floor patterns.
- D. Selection Samples: Submit manufacturer's complete set of color samples for Architect's initial selection.
- E. Verification Samples: Submit two samples, 2 by 2-inch in size illustrating color and pattern for each resilient flooring product specified.
- F. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning, stripping, and re-waxing.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Upon receipt, immediately remove any shrink-wrap and check materials for damage and the correct style, color, quantity and run numbers.
- B. Store all materials off of the floor in an acclimatized, weather-tight space.
- C. Maintain temperature in storage area between 55 degrees F and 90 degrees F.
- D. Protect roll materials from damage by storing on end.
- E. Do not double stack pallets.

1.6 FIELD CONDITIONS

A. Store materials for not less than 48 hours prior to installation in area of installation at a temperature of 70 degrees F to achieve temperature stability. Thereafter, maintain conditions above 55 degrees F.

PART 2 PRODUCTS

2.1 SHEET FLOORING

A. Resilient Sheet Flooring with flash coving: Homogeneous without backing, with color and pattern throughout full thickness.

1. Manufacturers:

a. Mannington Commercial; BioSpec: www.mannington.com.

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 - b. Armstrong Flooring; Medintech Plus: www.armstrongflooring.com.
 - c. Johnsonite; iQ Optima: www.johnsonite.com.
 - 2. Minimum Requirements: Comply with ASTM F1913.
 - 3. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E 648 or NFPA 253.
 - 4. Thickness: 0.080-inch nominal.
 - 5. Sheet Width: 49 inches minimum.
 - 6. Static Load Resistance: 250 psi minimum, when tested as specified in ASTM F970.
 - 7. Seams: Heat welded.
 - 8. Integral coved base with cap strip, height as indicated in drawings.
 - 9. Color: As indicated on drawings.
 - B. Welding Rod: Solid bead in material compatible with flooring, produced by flooring manufacturer for heat welding seams, and in color matching field color.

2.2 ACCESSORIES

- A. Subfloor Filler: White premix latex; type recommended by adhesive material manufacturer.
- B. Primers, Adhesives, and Seam Sealer: Waterproof; types recommended by flooring manufacturer.
- C. Filler for Coved Base: Plastic.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that surfaces are flat to tolerances acceptable to flooring manufacturer, free of cracks that might telegraph through flooring, clean, dry, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of flooring to substrate.

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 - B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive resilient base.
 - C. Cementitious Sub-floor Surfaces: Verify that substrates are dry enough and ready for resilient flooring installation by testing for moisture and pH.
 - 1. Test in accordance with Section 09 05 61.
 - 2. Obtain instructions if test results are not within limits recommended by resilient flooring manufacturer and adhesive materials manufacturer.
 - D. Verify that required floor-mounted utilities are in correct location.

3.2 PREPARATION

A. Prepare floor substrates for installation of flooring in accordance with Section 09 05 61.

3.3 INSTALLATION - GENERAL

- A. Starting installation constitutes acceptance of sub-floor conditions.
- B. Install in accordance with manufacturer's written instructions.
- C. Spread only enough adhesive to permit installation of materials before initial set.
- D. Fit joints and butt seams tightly.
- E. Set flooring in place, press with heavy roller to attain full adhesion.
- F. Where type of floor finish, pattern, or color are different on opposite sides of door, terminate flooring under centerline of door.
- G. Install edge strips at unprotected or exposed edges, where flooring terminates, and where indicated.
- H. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.

3.4 INSTALLATION - SHEET FLOORING

- A. Lay flooring with joints and seams parallel to longer room dimensions, to produce minimum number of seams. Lay out seams to avoid widths less than 1/3 of roll width; match patterns at seams.
- B. Cut sheet at seams in accordance with manufacturer's instructions.

- C. Seal seams by heat welding where indicated.
- D. Coved Base: Install as detailed on drawings, using coved base filler as backing at floor to wall junction. Extend sheet flooring vertically to height indicated, and cover top edge with metal cap strip.

3.5 CLEANING

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- A. Remove excess adhesive from floor, base, and wall surfaces without damage.
- B. Clean in accordance with manufacturer's written instructions.

3.6 PROTECTION

A. Prohibit traffic on resilient flooring for 48 hours after installation.

END OF SECTION

SECTION 10 26 01

PART 1 GENERAL

1.1 SCOPE: SECTION 10 26 01 - SOLID SURFACE SHEET WALL FINISH

A. Solid surface sheet wall finish.

1.2 REFERENCE STANDARDS

- A. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials; 2015a.
- B. NFPA 70 National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- C. UL (DIR) Online Certifications Directory; current listings at database.ul.com.

1.3 1SUBMITTALS

- A. See Section 01 33 00 Submittal Procedures, for submittal procedures.
- B. Product Data: Provide Manufacturer's printed product data for each type of sheet specified.
- C. Shop Drawings: Indicate dimensioned panel layout with required trim locations.
- D. Samples: Submit two color samples, 2 by 2-inch minimum in size, illustrating color and pattern.
- E. Manufacturer's Instructions: Indicate printed installation instructions for each type of sheet specified.

1.4 DELIVERY STORAGE AND HANDLING

- A. Deliver materials in unopened factory packaging to the jobsite.
- B. Inspect materials at delivery to assure that specified products have been received.
- C. Store in original packaging in an interior climate controlled location away from direct sunlight.

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1.5 PROJECT CONDITIONS

A. Environmental Requirements: Products must be installed in an interior climate controlled environment.

1.6 WARRANTY

A. Standard Limited 10 year Warranty against materials and manufacturing defects.

PART 2 PRODUCTS

2.1 BASE BID MANUFACTURER

- A. Inpro Corporation; BioPrism: www.inprocorp.com.
- B. Other Acceptable Manufacturers:
 - 1. Corian; Interior Wall Surfaces: www.corian.com.
 - 2. Wilsonart; Solid Surface Designs: www.wilsonart.com.

2.2 MANUFACTURED UNITS

- A. Description:
 - 1. Composition: polyester/acrylic blended resins with natural filler material.
 - 2. Size: Sheets in 48 inches by 96 inches or greater to avoid joints to the greatest extent possible.
 - 3. Edge: Eased with interlocking edges where panels join.

2.3 MATERIALS

- A. Typical Walls: BioPrism, Sheet.
 - 1. Surface Burning Characteristics: Flame spread index of 25 or less, smoke developed index of 450 or less, when tested in accordance with ASTM E84.
 - 2. Thickness: 1/4-inch.
 - 3. Color: As indicated on drawings.

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- B. Shower Walls: BioPrism, 12-inch Square Look, Sheet.
 - 1. Surface Burning Characteristics: Flame spread index of 25 or less, smoke developed index of 450 or less, when tested in accordance with ASTM E84.
 - 2. Thickness: 1/4-inch.
 - 3. Color: As indicated on drawings.

2.4 ACCESSORIES

- A. Adhesive: Solid surface bonding adhesive as recommended by manufacturer.
- B. Sealant: Silicone sealant as recommended by manufacturer.
- C. Trim: Provide required trim for inside. outside, and butt joints as recommended by manufacturer.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verification of Conditions: Examine areas and conditions in which sheet will be installed.

3.2 PREPARATION

A. General: Prior to installation, clean area to remove dust, debris and loose particles.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. General: Install components plumb and level, scribe adjacent finishes, in accordance with approved shop drawings and recommended installation instructions.

3.4 CLEANING

A. At completion of the installation, clean surfaces in accordance with maintenance instructions.

END OF SECTION

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PART 1 GENERAL

1.1 SCOPE: SECTION 12 36 00 - COUNTERTOPS

- A. This section includes the following:
 - 1. Countertops for architectural cabinet work.
 - 2. Window sills.

1.2 RELATED REQUIREMENTS

A. Section 06 41 00 - Architectural Wood Casework.

1.3 REFERENCE STANDARDS

- A. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials; 2015a.
- B. BISFA 2-01 Classification and Standards for Solid Surfacing Material; 2013.
- C. ISFA 3-01 Classification and Standards for Quartz Surfacing Material; 2013.
- D. MIA (DSDM) Dimensional Stone Design Manual; VII, 2007.
- E. NEMA LD 3 High-Pressure Decorative Laminates; 2005.
- F. PS 1 Structural Plywood; 2009.

1.4 SUBMITTALS

- A. See Section 01 33 00 Submittal Procedures, for submittal procedures.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Specimen warranty.

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 - C. Shop Drawings: Complete details of materials and installation; combine with shop drawings of cabinets and casework specified in other sections.
 - D. Selection Samples: For each finish product specified, color chips representing manufacturer's full range of available colors and patterns.
 - E. Verification Samples: For each finish product specified, minimum size 2 inches square, representing actual product, color, and patterns.
 - F. Test Reports: Chemical resistance testing, showing compliance with specified requirements.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.6 FIELD CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

PART 2 PRODUCTS

2.1 COUNTERTOPS AND WINDOW SILLS

- A. Solid Surfacing Countertops and window sills: Solid surfacing sheet or plastic resin casting over continuous substrate.
 - 1. Flat Sheet Thickness: 1/2-inch, minimum.
 - Solid Surfacing Sheet and Plastic Resin Castings: Complying with ISFA 2-01 and NEMA LD 3; acrylic or polyester resin, mineral filler, and pigments; homogenous, non-porous and capable of being worked and repaired using standard woodworking tools; no surface coating; color and pattern consistent throughout thickness.

a. Manufacturers:

1) Avonite Surfaces; www.avonitesurfaces.com.

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- 2) Dupont; www.corian.com.
- 3) Formica Corporation; www.formica.com.
- 4) Wilsonart; www.wilsonart.com.
- 5) LG Hausys; www.lghausys.com.
- b. Surface Burning Characteristics: Flame spread index of 25, maximum; smoke developed index of 450, maximum; when tested in accordance with ASTM E84.
- c. Finish on Exposed Surfaces: Matte, gloss rating of 5 to 20.

2.2 MATERIALS

- A. Wood-Based Components:
 - 1. Wood fabricated from old growth timber is not permitted.
- B. Plywood for Supporting Substrate: PS 1 Exterior Grade, A-C veneer grade, minimum 5-ply; minimum 3/4-inch thick; join lengths using metal splines.
- C. Adhesives: Chemical resistant waterproof adhesive as recommended by manufacturer of materials being joined.
- D. Joint Sealant: Mildew-resistant silicone sealant, clear.

2.3 FABRICATION

- A. Fabricate tops and splashes in the largest sections practicable, with top surface of joints flush.
 - 1. Join lengths of tops using best method recommended by manufacturer.
 - 2. Fabricate to overhang fronts and ends of cabinets 1-inch except where top butts against cabinet or wall.
 - 3. Prepare all cutouts accurately to size; replace tops having improperly dimensioned or unnecessary cutouts or fixture holes.
- B. Solid Surfacing: Fabricate tops up to 144 inches long in one piece; join pieces with adhesive sealant in accordance with manufacturer's recommendations and instructions.

PART 3 EXECUTION

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3.1 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.2 INSTALLATION

A. Securely attach countertops to casework as indicated on drawings using concealed fasteners. Make flat surfaces level; shim where required.

3.3 TOLERANCES

- A. Variation From Horizontal: 1/8-inch in 10 feet, maximum.
- B. Offset From Wall, Countertops: 1/8-inch maximum; 1/16-inch minimum.
- C. Field Joints: 1/8-inch wide, maximum.

3.4 CLEANING

A. Clean countertops surfaces thoroughly.

3.5 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Date of Substantial Completion.

END OF SECTION

PART 1 GENERAL

1.1 SCOPE: SECTION 20 01 00 - OPERATION AND MAINTENANCE FOR MECHANICAL

A. This Section covers form, content, and submittal of mechanical system Operation and Maintenance Manuals.

PART 2 PRODUCTS

2.1 FORM

- A. Arrange operation and maintenance data sequentially by Specification Section.
- B. Provide two indexes at the front of the binder that locates individual items by tab number. The first by Specification Section. The second, an alphabetical index of all items without regard to Specification Section.
- C. Separate each item with consecutively numbered heavy stock divider sheets with plastic index tab. Type item number on both sides of paper inserts.
- D. Precede each item with a completed Item Data Sheet. See required format attached to the end of this Specification Section.
- E. Material included shall indicate the specific item(s) utilized for this Project. Delete or cross out all other items.
- F. Provide complete operation and maintenance manual submittals. Partial or incomplete submittals required under this Section will be returned without review.

2.2 DATA

- A. Provide data for all items, equipment, and equipment components specified or indicated under this Division, so that the Owner's maintenance personnel will have complete service and replacement information required for routine maintenance and repair and to provide maximum usable life. Include data not only for maintainable and repairable items, but also for replaceable but not repairable items. Typical items for which information is required include:
 - 1. Valves and other piping accessories.
 - 2. Plumbing fixtures including fixtures, faucets, flush valves, floor drains, cleanouts, roof drains, and other components.

- B. Include the following data for each item as applicable. Some of these data can be extracted from equipment review submittals and included with the Operation and Maintenance Manuals.
 - 1. Manufacturer's catalog literature and illustrations.
 - 2. Operating characteristics including capacity data, performance curves, flow rates, pressure drops, etc.
 - 3. Dimensions and connection sizes.
 - 4. Installation and adjustment instructions, requirements, and recommendations.
 - 5. Parts lists and assembly Drawings.
 - 6. Maintenance, operational, and troubleshooting instructions.
 - 7. Warranty data.
- C. Data shall be as provided by the equipment manufacturer or supplier.
- D. Data are required for all component items of equipment whether or not the components are products of the equipment manufacturer.
- E. All material must be clearly readable. "Faxed" then photocopied information is not acceptable.
- F. Include a chart, neatly typed and arranged by system, summarizing periodic inspections and maintenance recommended by equipment manufacturers and/or required to properly maintain the facility's new mechanical systems. The periodic maintenance summary chart shall include equipment name, identification symbol, location, type of maintenance or inspection required, and recommended time interval.
- G. Include an equipment schedule, neatly typed and arranged by system, listing new equipment with equipment symbol, nomenclature, function and area served, location, manufacturer, nameplate data including model and serial number and motor data including full load amps, horsepower, volts and phase.
- H. Include a valve schedule, neatly typed and arranged by system, listing new valve tags with information required on valve tag plus location and normal position, open or closed.

2.3 BINDING

A. Bind the Operation and Maintenance Manuals in three ring, D-ring style binders with page lifters and vinyl covers. Expandable catalog type two-hole binders with soft board covers and metal prong fasteners will not be accepted.

B. Label the front cover and end panel. Label to include Project title, Project number, date, and facility name.

PART 3 EXECUTION

3.1 REQUIRED COPIES AND TIMING

A. Review Submittals:

- 1. Submit one electronic copy (PDF format) of the Operation and Maintenance Manual for review and acceptance by the Contracting Officer. Electronically Index (Bookmark) each section and item, by item data number and name within the electronic submittal.
- 2. Submit for review not less than thirty days prior to Substantial Completion Inspection.
- B. Final Operation and Maintenance Manuals:
 - 1. Provide five complete, reviewed, corrected and accepted Operation and Maintenance Manuals to the Contracting Officer a minimum of five working days prior to Project Substantial Completion Inspection and 5 working days prior to any scheduled training on equipment covered by the Operations and Maintenance Manual.
 - 2. Provide three complete digital copy's (PDF format) of the accepted Operation and Maintenance Manuals to the Contracting Officer as part of the Final Operation and Maintenance Manual submittal. Provide digital copies on Compact Disc (CD) or USB compatible memory card (Flash).

END OF SECTION

ATTACHMENT: ITEM DATA SHEET

ITEM DATA SHEET

1.	Item name/Drawing equipment number:
2.	Specification section/Drawing number:
3.	Manufacturer/model number:
4.	Size/capacity:
5.	Use and location: (1)
6.	Spare parts source:
7.	Providers of warranty service:
8.	Other Contractor comments:
	(1) This information must be provided for all items. Be specific as possible.

PART 1 GENERAL

1.1 SCOPE: SECTION 20 05 00 - COMMON WORK RESULTS

- A. This Section covers general mechanical requirements for Work covered under Divisions 20 and 22.
- B. All Work and services specifically covered under this Division is supplementary to that covered under other Divisions of these Contract Documents. The requirements of this Division which are more stringent than that covered under other parts of these Contract Documents apply to Work covered under this Division.
- C. All incidental Work required but not specified under this Division shall comply with the Division in which it is specified.
- D. Review the Drawings and Specifications of all other Divisions for additional Work under Division 20.

1.2 GENERAL REQUIREMENTS

- A. Provide the Owner with complete, coordinated, operating, balanced, tested, and adjusted mechanical systems.
- B. Place all equipment in operation and instruct the Owner's maintenance personnel as to the proper operation, periodic maintenance, and lubrication of new mechanical equipment and systems.
- C. The Drawings are somewhat diagrammatic and do not attempt to show all offsets or fittings required for installation of the mechanical system. Furnish and install pipes and ducts with fittings required for complete and proper installation of mechanical systems specified or required under this Division.
- D. Provide piping, equipment, and accessories indicated on the Drawings unless it is specifically indicated that the piping, ductwork, equipment, or accessory is existing.
- E. Install piping and equipment in accordance with manufacturer's recommendations, with accessories recommended by the manufacturer for service intended, and with accessories indicated. Should recommendations conflict with Contract Documents, contact Contracting Officer for clarification before proceeding.
- F. Coordinate the installation of the mechanical systems with the Work of other trades and existing conditions. Route mechanical systems as required to avoid interference with the Work of other trades and existing conditions.

- G. Provide access to concealed piping accessories, duct accessories, and equipment requiring access for periodic maintenance, inspection, replacement, or adjustment. Furnish access panels/doors of the proper type and size for the application.
- H. Do not scale the Mechanical Drawings. Verify dimensions as construction progresses.
- I. Refer to the Architectural and Structural Drawings in regards to partition thicknesses, dimensions and other details of the building construction.
- J. Report any errors, discrepancies, or ambiguities to the Contracting Officer, who will answer all questions and interpret intended meaning of these Contract Documents. Accept Contracting Officer's interpretation as final.
- K. Perform Work in a neat and workmanlike manner with skilled craftsmen specializing in said Work.
- L. Provide new equipment and materials direct from the manufacturer unless specifically indicated otherwise. Remanufactured equipment and materials are specifically not acceptable.
- M. Provide the product of only one manufacturer for each item or type of item provided in quantity.
- N. Where the selection of materials or methods is left to the discretion of the Contractor, faithfully pursue the use of the best available materials or methods suitable for the purpose intended.
- O. Install Owner furnished fixtures, appliances, and equipment indicated to be Contractor installed, and furnish and install all piping and/or ductwork required to connect Owner furnished fixtures, appliances, and equipment to the Mechanical systems, in accordance with the fixture, appliance, or equipment manufacturer's recommendations and as indicated.

1.3 LOCAL CONDITIONS

- A. Bidders shall familiarize themselves with the Contract Documents and existing conditions which affect Work required by the Contract Documents. It will be assumed that bidders have made a personal examination of the jobsite and existing conditions.
- B. Failure to visit the jobsite will in no way relieve the successful bidder from the necessity of furnishing any materials or performing any Work that may be required to complete the Work in accordance with the Contract Documents with no additional cost to the Owner.

1.4 PERMITS, TESTING, AND INSPECTIONS

- A. Obtain, pay for, and comply with the requirements of all permits, fees and inspections by public authorities required for the Work covered under this Division of the Specifications.
- B. Transmit copies of permit applications, permits received, and public authority inspection reports to the Contracting Officer.
- C. Test mechanical systems in accordance with the most restrictive procedures as defined under applicable codes or as specified elsewhere under this Division.
 - 1. Provide a minimum of three working days' notice to Contracting Officer and public authorities prior to performance of test.
 - 2. If less than required notice is given, the Contracting Officer may require the Contractor to repeat the test at no additional cost to the Owner.
 - 3. Test Work prior to insulating or concealing. If less than required notice is given prior to insulating or concealing, the Contracting Officer may require the Contractor to uncover such Work for inspection and recover same at no additional cost to the Owner.
 - 4. Submit certificate of compliance for all tests indicating system tested, results of tests, witnesses and dates prior to calling for Substantial Completion and final inspections.
 - 5. During testing, isolate piping system equipment and accessories that are not rated to withstand test pressures or perform test prior to connection of such equipment and accessories to the piping system.

D. Substantial Completion and Final Inspections:

1. Provide minimum of 14 calendar days' notice to Contracting Officer and public authorities of intent to have Work ready for inspection. Confirm that Work will be ready for inspection a minimum of 3 working days' notice prior to requested inspection.

2. Prior to inspection:

- a. Deliver to the Contracting Officer required equipment, Drawings, and records.
- b. Clean fixtures and equipment. Remove manufacturer's stickers and leave free of dust and dirt.
- c. Remove boxes, scrap, and other debris.

- d. Touch up holidays or damaged painted surfaces.
- e. Contractor's Mechanical Administrator, licensed by the State of Alaska, shall review mechanical systems installation for conformance with Contract Documents. With request for inspection, Contractor's Mechanical Administrator shall verify in writing that this review has been performed and note anything not conforming to Contract Documents.
- f. With request for re-inspection of Work previously inspected, provide the Owner's previous inspection's deficiency list accompanied by an item by item statement of measures taken to correct the previously listed deficiencies.
- g. Deliver to Owner personnel all special tools and devices furnished by the manufacturer with items, specialties or equipment to allow installation, disassembly, adjustment, repair or maintenance. Identify special tools or devices as to item to which it is applicable.
- h. Provide mechanical receivables that the Owner is to receive upon completion of the Project. Turn over an inventory list of materials provided for the Owner's use to the Contracting Officer prior to scheduling substantial completion and final inspections.
- Deliver to the Contracting Officer a Certificate of Instruction signed by all Owner personnel receiving instruction, all Contractor personnel providing instruction, and indicating dates of instruction.

3. During inspection:

- a. Provide complete set of current record drawings for use during inspection.
- b. Provide complete and operating systems suitable for the season.
- c. Demonstrate that the mechanical system performs in accordance with the Contract Documents. Provide material and personnel required to perform the demonstration.
- d. Provide assistance to inspection personnel required for a complete and thorough inspection.

1.5 CODES, ORDINANCES, AND STANDARDS

A. Federal, State and local Codes and Ordinances take precedence over these Specifications and Drawings where conflicts occur unless the Drawings or Specifications call for more stringent requirements. Notify the Contracting Officer in writing of conflicts.

- B. Follow latest adopted editions of Code of Federal Regulations, Alaska Administrative Code, International Building Code, International Mechanical Code, International Fuel Gas Code, Uniform Plumbing Code, International Fire Code, National Electrical Code, ADA Accessibility Guidelines, NFPA, ASME, NEMA, ASHRAE, SMACNA, etc. as applicable.
- C. Comply with all applicable laws, building and construction codes, OSHA Safety and Health Regulations and applicable requirements of any governmental agency under whose jurisdiction this Work is being performed.

1.6 TEMPORARY HEAT & VENTILATION

- A. During construction and until the Work is accepted as substantially complete by the Owner, provide such temporary heating and ventilating equipment, piping, wiring, power, fuel, vents, stacks and related items as necessary to carry on the Work and to protect personnel, Work and materials from such damage or injury as can be caused by dampness, cold, and fumes.
- B. The system or parts of the system shall be complete in all respects prior to consideration of use.
- C. The Contractor retains responsibility for all damage or harm to material, equipment, Work, personnel, etc. that might result from use of temporary heating and ventilating equipment.
- D. Provide temporary equipment of sufficient number and size to maintain the temperature and ventilation requirements for Work, or a minimum temperature of 50 degrees F, whichever is higher.
- E. Provide temporary ventilation of enclosed areas to cure materials, to disperse humidity, and to prevent accumulation of dust, fumes, vapors, and gases.
- F. Non-vented or open flame heating/ventilating equipment is not permitted.
- G. Electric heaters are not permitted.

1.7 TEMPORARY OPERATION OF FACILITY'S NEW AND EXISTING MECHANICAL SYSTEMS

- A. The facility's existing mechanical systems may be utilized for temporary heat and ventilation. The system or parts of the system utilized shall be complete in all respects prior to consideration of use.
- B. Install indicated filters in all air-handling equipment, including cabinet unit heaters, placed in operation during construction. Install new filters during air balancing and again before acceptance of substantial completion by the Owner. The filters installed at the time of acceptance of substantial completion by the Owner may be those that were used during the air balancing process if these filters are removed once the balancing has been completed and the construction filters are reinstalled.

- C. Install temporary one (1)-inch thick roll filter media over all return and exhaust air intake grills and openings and over all fan intakes. Change filters as required and leave in place until the rooms or areas receive final cleaning for inspection.
- D. When each piece of equipment is initially placed in service, measure the motor current draw. If it exceeds the nameplate amperage (not service factor amperage), adjust fan and/or motor sheaves or pump balancing cocks to bring motor current draw below the full load current rating. If this is not possible, stop operation and notify the Contracting Officer.
- E. Test, clean, and flush liquid systems prior to utilization.
- F. Clean, repair, and lubricate new piping, ductwork, equipment and accessories as required to return the systems to like new condition prior to substantial completion and final inspections.
- G. Clean, repair, and lubricate existing piping, ductwork, equipment and accessories as required to return the systems to condition before start of construction prior to substantial completion and final inspections.
- H. The Contractor retains all responsibility for providing required maintenance until acceptance of substantial completion by the Owner. Fuel and power consumed during temporary use of the facility's new mechanical systems will be paid for by the Owner. Take steps to conserve energy.

1.8 MECHANICAL COMPLIANCE RECORD

- A. Record the performance of all tests, sterilization, cleaning, flushing and refilling of mechanical systems required under this Division.
- B. Include date, time and time interval, test results, brief description of method of tests, and witnesses.
- C. Submit this record to the Contracting Officer prior to scheduling Substantial Completion and final inspections.

1.9 INSTRUCTION OF OWNER'S PERSONNEL

- A. Instruct designated Owner personnel in the proper operation, periodic maintenance and lubrication of the project's mechanical systems, equipment and accessories utilizing an accepted Operations and Maintenance Manual.
- B. As instructors, include journeymen plumbers, electricians, and control men, each fully knowledgeable of the project's mechanical systems and equipment.

- C. Instruct only those Owner personnel specifically designated by the Contracting Officer. Instruction of other Owner personnel will not meet the requirements of this Section.
- D. Include system operations; periodic maintenance including locations and techniques; periodic lubrication including materials, methods and locations; location of concealed valves, instruments, dampers, etc.; location of electrical breakers and disconnects associated with mechanical equipment; and location of control items.
- E. Instruct Owner personnel for a minimum of two hours plus that required by other sections of this Division of the Specifications.
- F. Schedule the instruction period in the same manner as for system tests. The Contractor is obligated to only one instruction period. The instruction period may be divided into more than one period with the concurrence of the Contracting Officer.

1.10 RECORD DOCUMENTS

- A. Maintain one record copy of:
 - 1. Contract Drawings.
 - 2. Specifications.
 - 3. Change Orders and other modifications to the Contract.
 - 4. Reviewed Shop Drawings, product data, and samples.
 - 5. Field test records.
 - 6. Inspection certificates.
 - 7. Manufacturer's certificates.
- B. Store Record Documents and samples in clean, dry, and legible condition in Field Office apart from documents used for construction.
- C. Keep Record Documents and samples available for inspection by Contracting Officer.
- D. Record information concurrently with construction progress. Do not conceal any Work until required information is recorded.
- E. Legibly mark Contract Drawings and Shop Drawings to record actual construction, including:
 - 1. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of construction.

- 2. Field changes of dimension and detail.
- 3. Changes made by Change Orders.
- 4. Details not on original Contract Drawings.
- 5. References to related Shop Drawings and Change Orders.
- 6. Actually installed manufacturer, trade name, and catalog number of each product listed.
- 7. Changes made to equipment identification assignments, replacing Contract Document assigned equipment designations, at each location that designation occurs.
- 8. Valve numbering for each valve assigned a number at each location shown on the Drawings.
- F. Legibly mark contract Specifications to record actual construction, including:
 - 1. Manufacturer, trade name, and catalog number of each product actually installed, particularly optional items and substitute items.
 - 2. Changes made by Change orders.
- G. Upon request by the Contracting Officer submit complete collection of Record Documents to the Contracting Officer for review and duplication as desired.
- H. Two weeks prior to request for final inspection submit project Record Documents, including Shop Drawings of Contractor designed systems such as fire protection systems and control systems, to the Contracting Officer for review. Documents shall bear a statement signed and dated by a legal representative of the Contractor indicating that the Record Documents reflect "As-built" conditions.
- I. At Contract closeout, deliver corrected Record Documents to the Contracting Officer. Contract Drawings will be provided to the Contractor by the Contracting Officer in AutoCAD format. CAD files shall be modified as necessary to correctly show all features of the project as it has been constructed by bringing the contract set into agreement with the approved preliminary As-built prints. Upon completion, the As-built drawing set shall be delivered to the Contracting Officer in AutoCAD format, on full-size Mylar sheets, and on full-size paper prints, together with the preliminary As-built marked prints.

1.11 WARRANTY

A. All manufacturer and supplier standard equipment, item or accessory warranties covered under this Division shall be the Contractor's responsibility under Project warranty period.

- B. Equipment, item, or accessory warranties shall commence upon the date of Final Acceptance by the Owner.
- C. Transfer all manufacturer and supplier standard equipment, item or accessory warranties to the Owner upon expiration of Project warranty period.
- D. Any warranties, more stringent than manufacturer's standard, specified or indicated under this Division remain the responsibility of the Contractor before and after expiration of Project warranty period.
- E. Minimum manufacturer or supplier warranty is that of the manufacturer or supplier used as the basis of design.

1.12 MECHANICAL WORK IN EXISTING FACILITIES

- A. Carefully lay out Work in advance.
- B. Verify existing conditions affecting Work, including existing sizes and materials indicated, prior to beginning Work or ordering materials that are affected by existing conditions. Beginning of Work means acceptance of existing conditions. Match existing products and Work unless otherwise noted. Notify Contracting Officer of conflicts in writing.
- C. Verify locations and elevations of utilities that are crossed or connected to prior to installation of new Work.
- D. When portions of existing mechanical, electrical, structural, etc. conditions are shown, it is not meant to indicate that all of such systems are shown.
- E. Where cutting, channeling, chasing, or drilling of floors, walls, partitions, ceilings or other surfaces is necessary for the proper installation, support or anchorage of the mechanical equipment, piping, or ductwork, carefully perform this Work and patch to match existing conditions.
- F. Repair any damage to building, piping, or equipment with skilled mechanics of the appropriate trade.
- G. Coordinate connection of new services to existing building systems, including required systems shut downs, with the Contracting Officer. Limit required shut down periods to a minimum. Isolate, drain, and refill existing systems as required to accommodate Work. Restore existing systems to full operational condition.
- H. Cut, move, or remove existing items as necessary for installation of new Work and restore and replace at completion.
- I. Remove from site removed materials unless otherwise indicated that the material is to be salvaged for the Owner.

- J. Remove, cut, and patch in a manner to minimize damage and to provide means of restoring items to original conditions.
- K. Replace existing mechanical insulation that is removed to accomplish Work with new insulation matching existing.
- L. Remove piping connected to or serving fixtures or equipment being removed and other piping being removed, back to its main or connection to a still active branch and cap. Remove associated hangers and supports. Patch, to match existing, pipe insulation on mains at removed branch lines. If such piping is connected to mains or still active branches in areas that are not accessible or that are not being made accessible, then remove piping into area of non-accessibility and cap. Patch, to match existing, openings in walls, ceilings, or floors left or created as a result of piping or ductwork removal.
- M. Remove waste and vent piping that is being removed and that extends below slab-ongrade to top of slab, plug with concrete, and grind flush with top of slab or to below top of slab, plug pipe with concrete, and patch slab to match existing.
- N. Remove piping, other than waste and vent piping, that is being removed and that extends below slab-on-grade to below top of slab, cap pipe, and patch slab to match existing.
- O. Remove slab-on-grade floor drains that are being removed to below slab, plug pipe with concrete, and patch slab to match existing.

1.13 ASBESTOS FREE MECHANICAL SYSTEMS

A. Provide mechanical systems that do not contain asbestos or asbestos-containing materials.

1.14 PROJECT COMPLETION DOCUMENTATION AND MATERIAL TURN OVER

- A. See individual specification sections for required project completion documentation, and required maintenance or spare parts to be turned over to the Contracting Officer, including the following:
 - Record documents and reports:
 - a. Record documents Section 20 05 00 "Common Work Results."
 - Sterilization testing certificate Section 22 11 16 "Domestic Water Piping."
 - c. Conformed O&M manuals Section 20 01 00 "Operation and Maintenance for Mechanical."

- d. Test performance records for sterilization, cleaning, flushing and refilling of mechanical systems Section 20 05 00 "Common Work Results."
- 2. Training completion record:
 - a. Mechanical instructions training completion record Section 20 05 00 "Common Work Results."
 - b. Mechanical access panels and marker familiarization training completion record Section 20 05 00 "Common Work Results."

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

PART 1 GENERAL

1.1 SCOPE: SECTION 20 05 11 - COMMON SUBMITTAL REQUIREMENTS FOR MECHANICAL

A. This Section covers required mechanical equipment review submittals of material, equipment, items and accessories covered under this Division for review by the Contracting Officer to determine conformance with the Project design concepts and Contract documents prior to commencement of Work under this Division.

PART 2 PRODUCTS

2.1 FORM

- A. Each equipment review submittal or resubmittal shall be indexed, tabbed, and bound copies of data, Drawings, and materials lists. Alphabetize the index by item name and list the Specification Section and item number under which each item is submitted.
- B. Submittal information is required for all material and equipment specified or indicated on the Drawings.
- C. Organize submittals by Specification Section. Separate each Section by a heavy stock divider sheet with plastic index tab. Type Specification Section numbers on both sides of paper inserts.
- D. Identify each item of the submittal with an item number. Number the first item within a Specification Section "#1", the second item within a Specification Section "#2", and so forth. Restart numbering sequence with each Specification Section. Type item numbers on both sides of paper inserts.
- E. Include equipment indicated on the Drawings, but not covered by a Specification Section, with the appropriate volume under a tab marked "Drawings." Rules for item numbering and item data sheets apply.
- F. Precede each item with a completed Item Data Sheet. See required format attached to the end of this Specification Section.
- G. Material submitted shall indicate the specific item(s) proposed for this Project. Delete or cross out all other items.
- H. Long lead mechanical equipment may be submitted for review in a separate volume. Include all long lead items in a single volume that is indexed, tabbed and bound as required for regular mechanical equipment review submittals. Maintain the long lead

item submittal as a separate volume throughout the submittal review process; do not incorporate into the regular mechanical equipment review volumes.

- I. Each submittal or resubmittal of each volume shall be complete and shall contain all previously submitted material except that being replaced by new or revised material which shall be removed. Partial or improperly indexed or tabbed submittals or resubmittals shall be rejected without review or comment.
- J. With each resubmittal include a complete summary of all changes and additions made to the equipment review submittal since the previous submittal. Only those items included in the summary will be reviewed with the resubmitted package.
- K. Do not submit "updates" for previous submittal packages with resubmittals. Previous submittals will not be updated.

2.2 DATA

- A. Include the following data for each item as applicable:
 - 1. Manufacturer and model number.
 - 2. Drawing equipment number.
 - 3. Catalog literature.
 - 4. Operating characteristics including capacity data, performance curves, flow rates, pressure drops, etc.
 - 5. Electrical characteristics and wiring diagrams.
 - 6. Dimensions and connection sizes.
 - 7. Installation and adjustment instructions, requirements and recommendations.
 - 8. Color samples.
 - 9. Warranty data.
- B. A list of minimum submittals required is provided in each Section. These lists are not necessarily complete or all-inclusive and the Contractor is responsible for complete submittal.

FAIRBANKS PIONEER HOME KITCHEN FLOOR AND TUB ROOM MODERNIZATIONS FAIRBANKS, ALASKA PROJECT NO.: AJF 19-02C SECTION 20 05 11 COMMON SUBMITTAL REQUIREMENTS FOR MECHANICAL

PART 3 EXECUTION

3.1 REQUIRED COPIES AND TIMING

- A. Submit one electronic copy (PDF format) of the Mechanical Equipment Review Submittal or resubmittal for review and acceptance by the Contracting Officer. Electronically Index (Bookmark) each section and item within the electronic submittal.
- B. Materials submitted shall be reviewed and accepted by the Contracting Officer before Contractor releases material for fabrication or shipment.

END OF SECTION

ATTACHMENT: ITEM DATA SHEET

ITEM DATA SHEET

- 1. Item number:
- 2. Item name/Drawing equipment number:
- 3. Specification section/Drawing number:
- 4. Manufacturer/model number:
- 5. Use and location: (1)
- 6. Spare parts source:
- 7. Providers of warranty service:
- 8. Proposed deviations from the Contract Documents: (2)
- 9. Other Contractor comments:
- 10. Contractor Certification: (3)

The undersigned Contractor Representative certifies that he has reviewed the attached information and has determined that the proposed material complies with the requirements of the Contract Documents; he has coordinated installation of the material with the work of other trades and existing conditions; he has determined and verified field measurements, field construction criteria, manufacturer's installation requirements affecting the proposed material; and has notified the Contracting Officer of conflicts.

Contractor Representative's Signature

- (1) Unless otherwise indicated, provide this information only when the product's use and location is not obvious. Provide this information for all items provided under Specification Sections 21 13 00 "Fire Suppression Sprinkler System" and 23 09 23 "Direct Digital Control Systems for HVAC."
- If this section is left blank it will be assumed that proposed equipment is exactly as specified and (2) indicated on the Drawings.
- (3) The Contractor referenced here is the General Contractor for the project. The signature of a subcontractor representative is not acceptable.

20 05 11-4 Design Alaska, Inc.

PART 1 GENERAL

- 1.1 SCOPE: SECTION 20 05 29 HANGERS AND SUPPORTS FOR MECHANICAL
 - A. This Section covers selection, installation, and adjustment of equipment and material used to hang and/or support mechanical systems and equipment.

1.2 SUBMITTALS

- A. Manufacturer's Data:
 - 1. Catalog Cuts and Selections for equipment and accessory items.
 - 2. Submit concrete anchors used in each application with installation instructions and ICC evaluation report or other third party test report showing seismic rating (where applicable).
- B. Application Schedule: Hanger and supports schedule indicating the type of product and materials proposed for each size or application.
- C. Test Reports:
 - 1. Third party reports or certifications where indicated.
 - 2. Copy of the standard form used for Special Inspection of concrete anchors.
- D. Shop Drawings for fabricated pipe or equipment hangers or supports including:
 - 1. Dimensions.
 - 2. Construction details.
 - 3. Materials.
 - 4. Deflection for spring hangers.
 - 5. Rated or design load, actual load and safety factors.
 - 6. Applications.

PART 2 PRODUCTS

2.1 GENERAL

A. Provide factory standard hangers and supports complete with necessary inserts, bolts, nuts, rods, washers, and other accessories. B-Line, Anvil, or equal.

2.2 PIPE HANGERS

- A. Pipe hangers placed in direct contact with pipe:
 - 1. Pipe hangers for 8 inches and smaller cast iron and steel pipe: Swivel loop style, galvanized carbon steel. B-Line Figure 2 or equal.
 - 2. Pipe hangers for 6 inches and smaller copper pipe: Swivel loop style, carbon steel, epoxy coated or felt lined, copper colored. B-Line Figure 200F or equal.
- B. Pipe hanger placed around insulation:
 - 1. Clevis ring style, electro-galvanized carbon steel. B-Line B3100 or equal.
 - 2. J-Hanger, electro-plated steel, used with B-Line B3151 shield. B-Line B3690.
 - 3. Adjustable band hanger, pre-galvanized steel, used with B-Line B3151 shield. B-Line 3170.

2.3 RISER CLAMPS

- A. Riser clamps for cast iron and steel pipe: Electro-galvanized carbon steel. B-Line B3373 or equal.
- B. Riser clamps for copper pipe: Copper-electro plated carbon steel. B-Line B33373CT or equal.
- C. Riser clamps for DWV pipe: Carbon steel. B-Line B3373 or equal.

2.4 HANGER RODS

- A. Electro-galvanized carbon steel. B-Line ATR or equal.
- B. Select equipment hanger rods as required to properly support the equipment in-service load. Select tank, coil, etc. supports assuming that they are full of water when in service.

SECTION 20 05 29 HANGERS AND SUPPORTS FOR MECHANICAL

C. Size equipment hangar rods as follows:

<u>Load/rod</u>	Hanger Rod
0 - 300 pounds	3/8-inch
301 - 600 pounds	1/2-inch

D. Size pipe hanger rods as follows:

<u>Pipe Size</u>	<u>Hanger Rod</u>
1/2 to 2 inches	3/8-inch
2-1/2 to 4 inches	1/2-inch

2.5 CHANNEL STRUTS

A. Fabricated from 0.105 inch thick rolled mild steel. Unistrut, Erico Caddy, Power Strut, or equal. Select as follows for spans up to seven feet. For longer spans or greater loads submit Shop Drawing for review.

Total Load	<u>Unistrut</u>	Power Strut
0 - 245 pounds	P1000	PS 200
246 - 680 pounds	P1001	PS 200 2T3
681 - 1360 pounds	P1001C41	

B. Finish: Zinc plated electrostatically for interior applications and hot dipped galvanized after fabrication for exterior applications.

2.6 ARTICULATING HANGER SYSTEMS

- A. Malleable iron eye socket fitting. B-Line B3222 or equal.
- B. Carbon steel linked welded eye rod. B-Line B3211X or equal.

2.7 STEEL STRUCTURE ATTACHMENTS

- A. Beam clamps: Malleable/ductile iron with set screw and lock nut and with retainer strap. B-Line Figure 65 and B-Line Figure 66 or equal. Provide retainer strap listed with clamp or provide a steel strap of not less than 16-gauge thickness and not less than 1.0-inch wide for pipe diameters up to 8-inch.
- B. Welded beam attachments: Carbon steel. B-Line 50, B3083 or B3083WO or equal.
- C. Channel strut beam or truss clamps: Carbon steel with retainer rod and hook. B-Line Figure 40 or equal.
- D. Steel truss attachments: Carbon steel fittings compatible with truss.

PART 3 EXECUTION

3.1 GENERAL

- A. Examine the Architectural and Structural Drawings and existing conditions and provide additional structural members or framing required to support the mechanical systems.
- B. Hanger spacing:

Metallic Pipe Size (Inches)	Maximum Spacing Between Supports	
	<u>(Feet)</u>	
1/2	5	
3/4	6	
1	7	
1-1/4	8	
1-1/2	9	
2	10	
2-1/2	11	
3	12	
4	14	

- C. Provide articulating hangers so that systems can swing freely.
- D. Provide additional support at valves, elbows, bends, and other locations where concentrated loads occur.
- E. Where groups of three or more pipes occur, they may be supported with trapeze hangers constructed from channel strut and hanger rods. Space trapeze hangers for smallest pipe supported.
- F. Do not support piping four inches size and larger from a single joist or structural member.
- G. Support hub and no-hub cast iron piping at each joint, in accordance with above hanger spacing table, or in accordance with coupling manufacturer's recommendations, whichever is more stringent.
- H. Support piping with sleeved couplings and grooved end piping at each length of pipe and at each fitting, in accordance with above hanger spacing table, or in accordance with coupling manufacturer's recommendations, whichever is more stringent.

- I. Provide floor mounted channel strut racks to support piping, ductwork, and equipment that cannot be otherwise supported from structure overhead or from walls.
- J. When copper piping is placed in direct contact with channel strut supports, wrap piping at point of contact with two wraps of dielectric pipe wrap.
- K. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges. Remove sharp or rough areas on exposed surfaces.

3.2 HANGERS ON INSULATED PIPING

- A. Place hanger or support in direct contact with the pipe unless specifically indicated that piping is to have continuous insulation. When placed in direct contact install fiberglass insulation around the hangers.
- B. For suspended piping required to have continuous insulation, provide calcium silicate insulation segments between supported piping and hangers / supports. In addition, provide galvanized iron shields between the insulation segments and hangers / supports. Fabricate shields for four inches and larger pipes of 16-gauge iron, 18 inches long. Shields for three inches and smaller pipes of 18-gauge material, 12 inches long. Match the radius of curvature of the shields with the outside radius of the insulation.

3.3 WALL MOUNTED PIPING

- A. Unless otherwise indicated, support piping that is installed exposed on walls with channel strut and compatible pipe clamps. Space supports in accordance with "Hanger Spacing" table.
- B. Support vertical piping drops within one foot of top of drop and within one-foot of bottom of drop and in accordance with "Hanger Spacing" table.
- C. Where groups of two or more pipes occur support piping from common channel strut.
- D. Secure channel strut to poured concrete walls with expansion anchors, to CMU walls with expansion anchors in grouted cells, and to stud walls with screws into studs or blocking.
- E. Cut multiple channel strut supports for a piping run or drop to consistent lengths.

3.4 STEEL STRUCTURES

- A. Secure to steel structures through use of beam clamps with retainer strap, channel strut with retainer rod and hook or with welded beam attachments.
- B. Bolts and nuts shall conform to ASTM A307 and flat washers are required under all nuts.

- C. Weld in accordance with American Welding Society Code AWS D1.1, latest edition, using E70xx electrodes.
- D. Verify with steel truss and deck manufacturer's maximum allowable loads on single point support; provide additional steel supports as required to comply with maximum recommended values.

END OF SECTION

PART 1 GENERAL

PROJECT NO.: AJF 19-02C

- 1.1 SCOPE: SECTION 20 05 53 IDENTIFICATION FOR MECHANICAL
 - A. This Section covers the identification of mechanical systems and components.

1.2 SUBMITTALS

- A. Manufacturer's Data:
 - 1. Catalog Cuts and selections for identification products and accessory items.
- B. Application Schedule: Prior to ordering, submit valve tag schedule indicating the type of service and size proposed for each application.

PART 2 PRODUCTS

2.1 PIPE MARKERS

- A. Pressure-sensitive identification markers banded in place with color-coded tape incorporating direction of flow arrows. "Opti-Code" markers and "Arrows On a Roll", Seton Name Plate Corp., Brady, Brimar, or equal. Painted stencil markers are not acceptable.
- B. Provide markers of length and with letter size indicated below. Diameter listed is outer diameter of insulation if piping is insulated.

Nominal	Marker	Letter
<u>Diameter</u>	<u>Length</u>	<u>Height</u>
3/4 to 1-1/4 inch	8 inches	1/2-inch
1-1/2 to 2 inches	8 inches	3/4-inch
2-1/2 to 7 inches	12 inches	1-1/4 inch

C. Provide marker with appropriately color-coded background and with a clearly printed legend to identify the contents of the pipe in conformance with the "Scheme for the Identification of Piping Systems" (ANSI A13.1).

2.2 VALVE TAGS AND COLD PIPING ACCESSORY TAGS

- A. Laminated plastic with subsurface printing, heavy duty, brass bead chain, and appropriately colored border. Craftmark, Seton, Brimar, or equal.
- B. Minimum of 2-inch diameter round tag or 2-inch square tag with maximum three text lines, 0.2-inch high characters, 8 characters per line.
- C. On each tag, print valve number and message describing system, function, and equipment and/or area/room served. Message shall be as complete as possible within space available.
- D. Number valves sequentially.

2.3 EQUIPMENT LABELS

- A. Minimum 1-inch high by 1/16-inch thick, black, laminated plastic with white core. "Setonply" by Seton Nameplate Corp., Craftmark, Brimar, or equal.
- B. Engraved with 3/8-inch high characters identifying the item or equipment by symbol and description indicated on the Drawings.

2.4 ACCESS PANEL AND CEILING IDENTIFICATION MARKERS

- A. Color coded dots. Avery or equal.
- B. Color coded tacks. Craftmark or equal.
- C. Color code markers as follows:
 - 1. Plumbing valves and devices: Green.

PART 3 EXECUTION

3.1 GENERAL INSTALLATION

- A. Identify new piping, valves, balancing cocks, and equipment in the facility whether concealed within accessible spaces or exposed.
- B. Do not label piping exposed to view in offices or in public access areas.
- C. Identify insulated and uninsulated piping.

D. Locate identification so that it is readable by a person standing on the floor for exposed items or at point of access for concealed items.

3.2 PIPING AND DUCTS

- A. Provide identification at both sides of partitions and floors, at all branch takeoffs, at connections to equipment and at intermediate intervals not in excess of 50 feet.
- B. Secure pipe pressure-sensitive vinyl markers in place with pressure-sensitive tape incorporating direction of flow arrows on both ends of label. At each end make two complete wraps around the pipe with tape so that tape is wrapped back on itself to assure attachment.

3.3 VALVES

- A. Identify normally open valves and balancing cocks with valve identification tags. Unless otherwise noted, equipment isolation valves and balancing cocks that are located adjacent to equipment isolated are exempted from this requirement.
- B. Identify normally closed valves with valve identification tags and with a second valve tag reading "NORMALLY CLOSED" in 1/2-inch high letters.

3.4 ACCESS PANEL AND CEILING IDENTIFICATION MARKERS

- A. Provide identification markers for accessible tile ceiling areas and on access panels to indicate the location of balancing cocks, valves, volume dampers, fire dampers and other concealed mechanical items that may require service or adjustment.
- B. Apply markers to the exposed face of panel or the ceiling tee bar nearest the concealed item.
- C. Familiarize the Owner's maintenance personnel with the location and function of the markers during the instruction period.

3.5 COLD PIPING ACCESSORIES

A. Identify all chilled water and cold water accessories located underneath insulation with identification tags connected to accessory with number 6 bead chain or equivalent strength connection. Unless otherwise noted, all chilled water piping accessory tags are to be visible without removal of insulation.

3.6 IDENTIFICATION COLOR CODING

A. Provide identification markers that match the existing piping and equipment color scheme.

END OF SECTION

PART 1 GENERAL

PROJECT NO.: AJF 19-02C

1.1 SCOPE: SECTION 20 07 00 - INSULATION FOR MECHANICAL

A. This Section covers selection and installation of insulation used in the mechanical systems.

1.2 SUBMITTALS

- A. Manufacturer's Data:
 - 1. Catalog cuts and selections of insulation products and accessory items.
- B. Application Schedule: Insulation and thickness schedule indicating the type of product, materials, and thickness proposed for each size or application.

PART 2 PRODUCTS

2.1 GENERAL

- A. Provide interior insulation having UL listed composite fire and smoke hazard rating not exceeding:
 - 1. Flame Spread: 25.
 - 2. Smoke Developed: 50.
- B. Provide accessories such as adhesives, mastics, cement, tapes, and jackets having the same component rating as listed above.
- C. Lagging fabric: 100 percent textured silica yarn or 100 percent cotton fabric, 8-ounce per square yard, with or without pre-applied rewettable adhesive finish. Fattal's Thermocanvas, Zetex 300, or equal.
- D. Thermal Insulation Coatings: Washable, abrasion resistant coating for thermal insulation. Minimum continuous service rating of 180 degrees F. Maximum dry basis VOC level of 80 grams per liter. Used to adhere lagging fabric without pre-applied rewettable adhesive finish to pipe and duct insulation. Foster #30-36 Sealfas, MEI, or equal.
- E. Insulating cements: Mineral fiber base with maximum 0.90 (BTU-inch)/(square foot-hour-fahrenheit) conductivity at 200 degrees F mean temperature.

- F. Vapor barrier coatings: Water based, fire resistive, flexible, maximum 0.08 perm water vapor permeability. Foster #30-80, MEI, or equal.
- G. Preformed plastic insulation covers and inserts: PVC with fiberglass inserts provided by cover manufacturer. Johns-Manville Zest2.2on, Fuller Speedline, Proto, or equal.
- H. Metal Jackets: 0.024-inch thick embossed aluminum jacket meeting ASTM B209 with 1/2-inch wide, 0.015 inch-thick, annealed stainless steel bands.

2.2 INTERIOR, ABOVE GRADE, PIPING SYSTEM INSULATION

- A. Fiberglass preformed by the manufacturer specifically for the size pipe or tubing on which it is to be installed unless otherwise indicated. Owens/Corning Fiberglass 25 ASJ, Johns-Manville Micro-Lok 650 with AP-T self-sealing jacket, Knauf ASJ, or equal.
- B. Continuous service rating: 500 degrees F minimum.
- C. Provide with vapor barrier jacket with maximum water vapor permeability of 0.02 perm and minimum beach puncture resistance rating of 50 units and a white kraft paper facing.
- D. Conductivity: 0.28 (BTU-inch)/(square foot-hour-Fahrenheit) maximum at 100 degrees F mean temperature.

PART 3 EXECUTION

3.1 GENERAL

- A. Provide insulation for new piping for the systems indicated below unless otherwise indicated.
- B. Replace existing insulation that is removed to accomplish Work with new insulation as specified in Part 2 of this Section or to match existing if not specified. Match existing thickness unless otherwise indicated.
- C. Surface Preparation: Prior to insulation installation, clean and dry exterior surfaces of pipe and ductwork.
- D. Patch insulation on existing pipe mains at removed branches. Match existing insulation and finish.
- E. Do not cover or obscure manufacturer or field applied identification tags, nameplates, information labels, etc.
- F. Seal exposed ends and face of cuts in fiberglass insulation with thermal insulation coating.

3.2 INTERIOR, ABOVE GRADE PIPING SYSTEMS INSULATION, GENERAL

- A. Unless otherwise indicated insulate the following piping systems with insulation thickness, additional insulation covering and insulation with a continuous vapor barrier in accordance with ASHRAE 90.1. Details used by this standard are included in the following schedule:
 - 1. Interior domestic cold water, plumbing vent and rain water leader cold piping:

Pipe	Insulation	Lagging Fabric	Continuous Vapor
<u>Size</u>	<u>Thickness</u>	<u>Required</u>	Barrier Required
<1-1/2 inches	1/2-inch	{1}	No
1-1/2 inches	1-inch	{1}	Yes
and larger			

2. Interior domestic hot water, recirculated domestic hot water, and hot water heating systems with design operating temperatures from 105 degrees F to 140 degrees F hot piping:

Pipe	Insulation	Lagging Fabric	Continuous Vapor
<u>Size</u>	<u>Thickness</u>	Required	Barrier Required
<1-1/2 inches 1-1/2 inches and larger	1/2-inch 1-inch	{1} {1}	No No

- {1} Lagging required at exposed installations, including mechanical spaces
- {2} Provide continuous insulation.
- B. Where pipes are insulated with two layers, stagger the insulation joints.
- C. Where insulation terminates, continue insulation jacketing to cover exposed insulating material and seal to adjoining pipe with vapor barrier coating for cold piping and thermal insulation coating for hot piping.
- D. Insulate equipment and accessories with the same thickness as is called for on adjoining piping unless otherwise indicated.
- E. Insulate pipe fittings to the same thickness as adjoining pipe insulation. Insulate fittings with preformed plastic insulation covers packed full with fitting manufacturer provided fiberglass insulation or with segmented sections of pipe insulation and 1/4-inch coat of insulating cement.
- F. Insulate solder and threaded end gate, globe, and ball valve bodies with pipe insulation. Do not insulate valve bonnets or bonnet rings. Fill voids between cutouts and valve body with insulating cement.

- G. Insulate flanged end gate and globe valve bodies with insulating cement. Do not insulate valve bonnets.
- H. Place hanger or support in direct contact with the pipe and install fiberglass insulation around the hangers when continuous insulation is not required.
- I. To provide a continuous insulation on piping systems, provide calcium silicate insulation segments between the pipes supported and the support. In addition, provide galvanized iron shields between the insulation segments and the supports.

3.3 INTERIOR, ABOVE GRADE PIPING SYSTEMS INSULATION, HOT PIPING

- A. Insulate domestic hot water piping in which hot water is being recirculated. Insulation is not required on branch piping to fixtures through which hot water is not being recirculated.
- B. Terminate insulation at wall and floor penetrations. Maintain minimum one-inch clearance to combustible construction. At exposed locations, size penetration so that butting insulation to wall trims out penetration.
- C. Seal and secure seams and joints to provide a neat and evenly rounded finished surface. It is not necessary to seal penetrations if holes are neatly cut in the insulation and there is a tight fit between the insulation and the penetrating equipment. A complete vapor barrier envelope is not required.
- D. Secure self-sealing lap on concealed piping insulation with outward clinching staples at a maximum spacing of one foot on center.
- E. Insulation is not required on flexible connectors, check valves, pipe guides, anchors, strainers, traps, meters, and pump bodies and any section of pipe between them less than 6 inches in length.
- F. When pipe insulation is installed around ring, clamp, and clevis type hangers place the seam at the hanger rod and slit the sealing lap to pass around the rod.
- G. Notch pipe insulation at trapeze hangers and at angle iron floor and wall supports. Seal insulation exposed to atmosphere with a thermal insulation coating.

3.4 INTERIOR, ABOVE GRADE PIPING SYSTEMS INSULATION, COLD PIPING

A. Domestic cold water: Only that piping serving more than one plumbing fixture. Insulation is not required on cold water branch line piping serving a single fixture, except that piping serving hose bibbs and drinking fountains. Insulate cold water piping serving hose bibbs and drinking fountains full length. Insulation is not required on piping serving only trap primers or on piping from trap primers to floor drains.

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- B. Continuous through walls, floors, and ceilings unless otherwise indicated.
- C. Seal and secure seams, joints, and penetrations in order to provide a neat and evenly rounded finished surface and complete vapor barrier envelope. Fill gaps between insulation and penetrating equipment with insulating cement and coat with vapor barrier coating.
- D. Cover piping insulation and ends with lagging fabric, which has been dipped in a thermal insulation coating. Lap lagging fabric over ends of preformed plastic insulation covers. In areas exposed to public view, install lagging fabric neatly, with cut rather than torn edges, to give a clean architectural appearance.
- E. When pipe insulation is installed around ring, clamp, and clevis type hangers place the seam at the hanger rod and slit the sealing lap to pass around the rod. After installation, seal these slits with a vapor barrier coating. If notching of the insulation is required to accommodate the hanger, fill the notches with insulating cement and vapor barrier coating.
- F. When trapeze hangers and angle iron wall or floor supports are used on piping systems place the pipes supported in direct contact with the hanger. Notch fiberglass insulation at these hangers and supports. Fill the notches with insulating cement and vapor barrier coating.
- G. Insulate check valves with insulating cement or with an oversized section of pipe insulation. If pipe insulation is used, the inside diameter shall equal the outside diameter of the adjoining pipe insulation. If insulating cement is used, do not insulate the cap, flanges, and the side plug provided for access to the hinge pin.
- H. Insulate balancing cock and flow control valve bodies with pipe insulation. Insulation shall not interfere with use of the pressure sensing taps or the volume regulating mechanism. Fill voids between cutouts and valve body with insulating cement and vapor barrier coating.
- I. Insulate isolation valves with an oversized section of insulation. The inside diameter shall equal the outside diameter of the adjoining pipe insulation. Fill any voids between insulation sections with insulating cement and vapor barrier coating to provide a continuous vapor barrier.
- J. Where inline piping equipment are covered by insulation and cannot be identified by an exposed item such as a valve handle or pressure taps, install a chain as indicated in Section 20 05 53 "Identification for Mechanical" for a connection of a tag outside the insulation. Seal chain where it penetrates the vapor barrier.

3.5 INTERIOR, BURIED, PIPING SYSTEM INSULATION

- A. Insulate with closed cell insulation either slipped over the piping or split longitudinally and applied on the piping. Match insulation thickness indicated for similar above ground systems.
- B. Seal and secure seams, joints, and penetrations in order to provide a complete vapor barrier envelope. Fill gaps between insulation and penetrating equipment with insulating cement.
- C. Fabricate insulation fittings from properly miter cut pieces.
- D. Bond seams and joints together with adhesive in accordance with manufacturer's recommendations.
- E. Continuous through floors.

END OF SECTION

PART 1 GENERAL

1.1 SCOPE: SECTION 22 05 00 - COMMON WORK RESULTS FOR PLUMBING

A. This Section covers selection and installation of basic pipe materials and specialties.

1.2 SUBMITTALS

- A. Manufacturer's Data:
 - 1. Catalog Cuts and selections for equipment and accessory items.
- B. Application Schedule: Provide a schedule indicating the balancing cock size and GPM for each application.
- C. Substantial deviations:
 - Submit to the Contracting Officer Shop Drawings of any proposed substantial deviations in the piping systems for this facility from these documents for review and acceptance. Include four, plus the number required by the Contractor, copies of each Shop Drawing submitted.
 - 2. Any substantial deviations from these documents installed prior to Contracting Officer review and acceptance of submittal may be required by the Contracting Officer to be removed and the indicated system be installed at no additional cost to the Owner.
 - 3. The Contracting Officer is the sole judge of what constitutes a substantial deviation and what is an acceptable alternate technique or method.

PART 2 PRODUCTS

2.1 GENERAL

- A. Provide all pipes, fittings, and accessories required for complete functioning installation of all piping systems specified and required under this Division.
- B. Miscellaneous items specified and required under this Division are not necessarily indicated on the Drawings.

2.2 DRAIN VALVES

A. Unless otherwise indicated, provide 3/4-inch ball valve or 1/2-inch ball valve if line size is less than 3/4-inch. Provide with brass hose end fitting and cap.

2.3 BALANCING COCKS

- A. Combination balancing cock and positive shutoff valve with check valved pressure sensing taps, drain tap, and memory stop. B & G Circuit Setter Plus, Armstrong CBV, Taco Accu-Flow, TA Hydronics or equal.
- B. Teflon seats, EPT checks, EPDM stem "O" ring.
- C. 200 psig, 250 degrees F rated.
- D. At time of instruction, provide differential pressure meter by the same manufacturer as balancing cock and with sensing connections to suit balancing cocks. Complete with calibrated curves and carrying case, capable of plus or minus 3 percent accuracy, and with reading range of 0 to 25 feet B & G Model R0-5, Taco or equal.

2.4 FLEXIBLE CONNECTORS

- A. Corrugated hose and single braid fabricated from carbon steel for iron or steel systems. Flexonics Series 100, Metraflex, Twin City Hose, or equal.
- B. Corrugated hose and single braid fabricated from bronze for copper systems. Flexonics Series 300, Metraflex, Twin City, or equal.
- C. Rated for 200 psig at 200 degrees F.
- D. End fittings to suit installation.
- E. Minimum live length is manufacturer's recommended length to allow 3/4-inch offset distance from centerline.

2.5 DIELECTRIC PIPE PROTECTION

- A. Polyvinyl, 20-mil, self-adhesive. Westape, Calpico, 3M, or equal.
- B. Dielectric nipples and flanges only. Dielectric unions are specifically not allowed.

2.6 ESCUTCHEONS

A. Chrome plated brass or stainless steel, spring clip. Dearborne Brass Series 5300, Brasscraft, or equal.

PART 3 EXECUTION

3.1 GENERAL INSTALLATION AND APPEARANCE

- A. Conceal piping above ceilings or in walls unless otherwise noted. Expose piping in spaces without ceiling or furred-in enclosures.
- B. Install piping in truss space in areas with exposed trusses unless otherwise noted.
- C. Route piping within the facility vapor retarder and insulation boundary.
- D. Ream pipes thoroughly and clean before installation.
- E. Flush lines clear of debris, scale and discoloration prior to startup. Clean out all strainers and drip pockets after flushing.
- F. Run pipes with proper grade to provide for easy drainage and venting.
- G. Support piping to provide an installation that is without sag or droops.
- H. Provide pipe supports and offsets, loops or accessories at equipment connections to minimize connection stress caused by normal system warm-up, cool-down and equipment operation.
- I. Install parallel runs of non-insulated piping as required to provide a minimum of 6-inch clearance between piping.
- J. Install parallel runs of insulated piping as required to provide a minimum of 4-inch clearance between insulation surfaces.
- K. Install piping and equipment as required to provide minimum 6 feet 8 inches of headroom in mechanical rooms, piping within 12 inches of the ceiling in other spaces with exposed piping, and as required to not interfere with other items or access to equipment.
- L. At piping penetrating wood or metal framing, cut hole with hole saw and center piping in hole so that piping does not contact wood framing. Provide plastic isolation bushings as required to adequately support piping.
- M. Provide escutcheons around pipes at finished floor, ceiling or wall penetrations. Slip steel escutcheons onto piping prior to joining pipe. Set steel escutcheons with bead of paintable silicon sealant at perimeter, press tight to wall or floor, and remove excess sealant.

3.2 FITTINGS, VALVES, AND ACCESSORIES

- A. Make changes of direction, branches, and reductions in pipe size with fittings. Bushings are allowed only in non-pressurized tanks and similar equipment.
- B. Provide isolation valves at pressure gauges.
- C. At pressure reducing valves, control valves, and other devices whose size is less than adjoining pipe size, provide reducers immediately adjacent to the device.
- D. Provide isolation valves in piping adjacent to equipment, including terminal units, and where indicated. Locate valves on system side of unions or flanges.
- E. Provide unions or flanges at connections to equipment and control valves to allow maintenance. Locate unions or flanges to allow maintenance without removal of any additional piping other than that between the union or flange and the equipment. Use of dielectric unions is prohibited.
- F. Provide drains valves at all low points in piping systems for drainage unless otherwise indicated.
 - 1. Drains are not required at plumbing fixtures if stop valve forms the low point of the branch.
 - 2. Provide threaded plug where space is not available to install a drain valve.
- G. Install balancing cocks with test ports at or above the horizontal position. Permanently mark, etched or stamped, balancing cock setpoint scale readings and balanced flow in GPM on 1-1/2 inches diameter brass valve tags attached to balancing cock with No. 6 bead chain. This tag is in addition to valve identification tag called for elsewhere.
- H. Install flow control valves with test ports at or above the horizontal position.
- I. Provide flexible connectors where indicated and on all connections to vibration isolated equipment.

END OF SECTION

PART 1 GENERAL

1.1 SCOPE: SECTION 22 05 23 - GENERAL DUTY VALVES FOR PLUMBING

A. This Section covers the selection and installation of manual valves.

1.2 SUBMITTALS

- A. Manufacturer's Data:
 - 1. Catalog Cuts and selections for valves and accessory items.
 - 2. Data showing parts in contact with domestic water are ANSI/NSF 61 certified to current lead free requirements.
- B. Application Schedule: Submit valve schedule indicating the type of service and size proposed for each application.

PART 2 PRODUCTS

2.1 GENERAL

- A. Standardize on one make as much as possible but not to the extent of sacrificing quality listed. Apollo, Grinnell, Milwaukee, Nibco, Stockham, Vogt, or equal.
- B. Provide ball valves where indicated, in lieu of gate valves for domestic water systems in piping two inch and less in size. All valves, two inches and smaller, shall be of same type. Provide ball valves installed in insulated piping systems with extended stems to bring the handle clear of the insulation.
- C. ASME Class 125 unless otherwise indicated.
- D. Gate and globe valves: Repackable under pressure with valve fully open.

2.2 DOMESTIC WATER SYSTEM VALVES

- A. Valves two inches and smaller:
 - 1. Isolation valves: ANSI/NSF-61 certified, full port ball valve, two-piece, bronze body with brass internals, chrome plated or stainless steel ball, reinforced Teflon seats and seals, non-blowout stem. Nibco S-585-66-LF/T585-66-LF or equal.

2. Check valves installed in horizontal lines and vertical lines with upward flow: Bronze body and cap, renewable seat and disc, teflon disc. ANSI/NSF -61 certified, swing check, Y-Pattern, with threaded cap that allows for removal of entire disc assembly through top of valve body. Nibco S-413-Y-LF/T-413-Y-LF or equal.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Provide isolation valves in piping adjacent to equipment and where indicated. Locate valves on system side of unions or flanges.
- B. Do not install valve stems below horizontal.
- C. Install globe valves in domestic water systems such that valve closes in direction of normal flow.

END OF SECTION

PART 1

PROJECT NO.: AJF 19-02C

GENERAL

1.1 SCOPE: SECTION 22 11 16 - DOMESTIC WATER PIPING

A. This Section covers selection, installation, testing, and sterilization of domestic water systems and storage tanks.

1.2 SUBMITTALS

- A. Manufacturer's Data, catalog cuts and selections of pipe and fittings are not required unless otherwise indicated.
- B. Application Schedule: Piping schedule indicating the type of product and materials proposed for each size or application.
- C. Submit certification documentation showing that pipe and fittings in contact with domestic water are ANSI/NSF 61 rated to current lead free requirements.

PART 2 PRODUCTS

2.1 PIPE, FITTINGS, AND JOINTS

- A. At minor modifications to existing piping: Match existing.
- B. Interior, above ground, three inches and smaller:
 - 1. ANSI/NSF-61 certified type L hard copper tubing with wrought copper solder fittings with lead free solder.
 - 2. 1/2-inch, 3/4-inch, and 1-inch branch piping may be connected to copper run piping using mechanically formed tee connections when run piping is minimum 1-inch, 1-1/2 inches, and 2 inches respectively. 1/2-inch branch piping may only be used to connect a single lavatory or drinking fountain.

PART 3 EXECUTION

3.1 INSTALLATION

A. Prior to performing Work on the existing domestic water system, isolate that portion of system requiring renovation from the rest of the facility's domestic water system. Do not reconnect the isolated portion of the domestic water system to the existing system until sterilization and testing are complete.

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TESTING

3.2

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- A. Hydrostatically test new and existing system at 100 psig for one hour with no noticeable pressure drop or water leaks.
- В. Report any leaks in the existing system to the Contract Officer. At the option of the Contract Officer, he will issue a Contract Amendment to repair leaks or he will have other maintenance personnel repair the leaks.
- C. Test minor modifications to existing system by returning system to normal operating conditions and visually inspect new joints for leaks.
- D. Firmly tap soldered fittings with a leather or rubber mallet during the pressure test to demonstrate soundness of soldered joints.

3.3 **STERILIZATION**

- A. Flush piping clear of debris or discoloration prior to sterilization.
- В. Prior to connection of the isolated portion of the domestic water system to the existing system thoroughly sterilize new and isolated existing portions of the domestic water system with sodium hypochlorite mixed in solution with water as required to achieve not less than 50 parts per million of available chlorine for a minimum of 24 hours. Take all precautions required to avoid introduction of foreign material into the non-isolated portion of the existing domestic water system. If foreign materials are introduced, sterilize the entire existing domestic water system.
- C. Introduce the sterilizing solution into the system in a manner that will cause all parts of the system to come into contact with the solution. Operate all valves at least twice during the contact period.
- D. After sterilization, flush the solution from the system with clean water until the residual chlorine content is less than 0.2 PPM throughout the system. During the flushing period, open and close all valves several times.
- E. 24 hours after flushing the system, sample the water at each domestic water storage tank, at one lavatory in each bathroom, at each drinking fountain, at each breakroom or coffee sink, and at the kitchen pot sink and submit samples to an independent testing laboratory for bacteriological testing. Submit certificate of conformance with bacteriological quantity standards, by State of Alaska, Department of Environmental Conservation Drinking Water Regulations (18AAC80), to the Contracting Officer.

END OF SECTION

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PART 1 GENERAL

PROJECT NO.: AJF 19-02C

1.1 SCOPE: SECTION 22 11 19 - DOMESTIC WATER SPECIALTIES

A. This Section covers selection and installation of domestic water specialties.

1.2 SUBMITTALS

- A. Manufacturer's Data:
 - 1. Catalog Cuts and selections for equipment and accessory items.
- B. Submit data showing that specialties and accessories in contact with domestic water are ANSI/NSF 61 certified to current lead free requirements.

PART 2 PRODUCTS

2.1 TEMPERING VALVES

A. TV-1: ANSI/NSF-61 certified bronze body construction with minimum adjustment range 80F to 120F with +/-3F temperature control range at min flow rate of 0.5gpm. Provide with integral inlet filter washers and hot and cold water check valves, ASSE rated for application, Watts LFUSG-B, or equal.

2.2 DIELECTRIC NIPPLES

A. Nipples specifically designed to dielectrically isolate dissimilar metal piping systems. Epco, Capitol, or equal.

2.3 HOSE BIBBS

A. HB-1, HB-2: J.R. Smith, Figure 5670 or equal. Vacuum breaker hose valve, polished chrome finish. Wall flange, removable wheel handle.

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PART 3 EXECUTION

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3.1 SPECIALTIES

- A. Provide fixture supply tubes, fixture stops, and fixture traps, tailpieces, and trap arms at all fixtures requiring same including items specified under this Division.
- B. Install traps with no more than one slip or compression fitting between trap and roughin.
- C. Provide escutcheons over all fixture supply and trap tailpiece wall penetrations. Inside cabinet escutcheons may be primed and painted steel instead of chrome plated.
- D. Provide dielectric nipples or flanges with dielectric gaskets at flange faces, bolt heads, and nut faces at connections of dissimilar piping materials in the domestic water system including connections.

END OF SECTION

Design Alaska, Inc. 22 11 19- 2

PROJECT NO.: AJF 19-02C

1.1 SCOPE: SECTION 22 13 16 - SANITARY WASTE AND VENT PIPING

A. This Section covers the selection, installation, and testing of waste piping systems.

1.2 SUBMITTALS

- A. Manufacturer's Data, catalog cuts and selections of pipe and fittings are not required.
- B. Application Schedule: Pipe and fittings schedule indicating the type of product and materials, proposed for each size or application.

PART 2 PRODUCTS

2.1 WASTE AND VENT PIPING

- A. At minor modifications to existing piping: Match existing.
- B. Above ground:
 - 1. Service weight cast iron soil pipe and fittings. "No hub" pipe and fittings with compression type couplings.
 - 2. Where seismic restraint of piping is required join piping with heavy-duty compression type fittings, Mission C HW or equal.
 - 3. Copper DWV pipe and fittings with lead free solder.
- C. Underground within the building: Service weight cast iron soil pipe and fittings. Bell and spigot pipe and fittings with double seal compression joints or "no-hub" pipe and fittings with heavy duty compression type couplings. Provide continuous machine applied corrosion protective coating. Galvanizing is not acceptable.

PART 3 EXECUTION

3.1 INSTALLATION

A. Pitch drainage piping down 1/4-inch per foot in direction of flow unless otherwise indicated.

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- B. Provide cleanouts where indicated, at the base of every stack, every 75 feet along buried interior runs, at every 200 feet along exterior runs, for each aggregate change of direction greater than 135 degrees, and where otherwise required by code. Provide access panels or grade cover boxes where required and as indicated.
- C. Piping passing through concrete or cinder walls and floors shall be protected against external corrosion by a protective sheathing or wrapping or other means that will withstand any reaction from the lime and acid of concrete. Minimum wall thickness of material shall be 0.025-inch and shall allow for movement including expansion and contraction of piping.

3.2 TESTING

- A. Test new and existing waste and vent system by plugging all openings and filling system with water. Test with a minimum of ten feet of water head on all joints with no level drop in one half hour period.
- B. Report any leaks in the existing system to the Contracting Officer. At the option of the Contracting Officer, he will issue a Contract Amendment to repair leaks or he will have Government maintenance personnel repair the leaks.
- C. Testing minor modifications to existing system by returning system to normal operating conditions and visually inspect new joints for leaks.

END OF SECTION

Design Alaska, Inc. 22 13 16-2

PROJECT NO.: AJF 19-02C

1.1 SCOPE: SECTION 22 13 19 - SANITARY WASTE PIPING SPECIALTIES

A. This Section covers the selection and installation of sanitary waste piping equipment, drains, cleanouts and their connection to the domestic waste and vent piping system.

1.2 SUBMITTALS

- A. Manufacturer's Data:
 - 1. Catalog cuts and selections for equipment and accessory items. Provide a separate complete submittal for each equipment package even though some accessory items may be repeated in several packages.
 - a. Rough-in data.
- B. Shop Drawings:
 - 1. Contractor fabricated items.

PART 2 PRODUCTS

2.1 FLOOR DRAINS

A. Vinyl tile floors: Cast iron body and flashing with round nickel bronze adjustable strainer head w/secured square hole grate and tile flange. Trap primer connection. J. R. Smith 2005/2010-A-P-F or equal.

2.2 FLOOR SINKS

A. Floor Sinks: 14-gauge, Type 304 stainless steel, 10 inches deep, flanged receptor body with flashing clamp and seepage control holes. Perforated stainless steel dome strainer and sediment bucket. Body interior, dome bottom strainer, and sediment bucket polished to #4 finish. 12 inches square, 14-gauge, Type 304 stainless steel ribbed non-tilt loose set 1/2 grate with 1/2-inch square holes where indicated. J.R. Smith 3009-C (-12) or equal.

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2.3 CLEANOUTS

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- A. Vinyl tile floors: Cast iron body and frame with round adjustable scoriated secured cast iron top. Spigot outlet with taper thread, bronze closure plug. J. R. Smith 4223 or equal.
- B. Walls: Extra heavy cast iron cleanout tee. Stainless steel shallow cover. Countersunk, taper thread, bronze plug. Vandal proof screws. J. R. Smith 4532-U or equal.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Connect waste to all items requiring same including items specified under this Division.
- B. Coordinate kitchen equipment rough-in locations, heights, and sizes with kitchen equipment supplier.
- C. Refer to the Architectural Drawings for fixture locations and mounting heights.

END OF SECTION

Design Alaska, Inc. 22 13 19- 2

1.1 SCOPE: SECTION 22 42 13 - COMMERCIAL WATER CLOSETS AND URINALS

A. This Section covers the selection and installation of water closet fixtures, urinal fixtures, bidet fixture, accessories, and their connection to the domestic water and waste piping system.

1.2 SUBMITTALS

A. Manufacturer's Data:

- 1. Catalog cuts and selections for fixtures and accessory items.
 - a. Provide a separate complete submittal for each fixture type even though some trim items may be repeated in several fixtures.
 - b. Rough-in data for each fixture.

PART 2 PRODUCTS

2.1 GENERAL

- A. Provide IAPMO and ADA complying products and installations.
- B. Fixtures: Vitreous china and enameled cast iron fixtures shall be white and stainless steel fixtures natural polished satin finish without discoloration unless otherwise indicated.

2.2 FLUSH VALVES

A. Manual flush valves: Diaphragm type, chrome plated brass construction, quiet operating, exposed installation unless otherwise indicated, oscillating non-hold-open handle, check angle stop with protective cap, vacuum breaker flush connection. Provide ADA complying flush valve handles and handle locations at handicapped water closets and urinals. Sloan Royal, Zurn Aquaflush, or equal.

2.3 FLOOR MOUNTED WATER CLOSETS

- A. WC-1: ADA-complying, low flow.
 - 1. Configure and install as required to conform to ADA.

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2. Elongated bowl, siphon jet action, vitreous china, water saver (1.6 gallons per flush cycle) with 1-1/2 inch top spud. American Standard Madera, Kohler Highcliff, or Mansfield equal.

2.4 ACCESSORIES

A. Seat: White plastic, injection molded, open, less cover, stainless steel self-sustaining check hinge, for elongated bowl. Church 9400C, Bemis, or equal to suit.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Connect water and waste to all items requiring same.
- B. Refer to the Architectural Drawings for fixture locations and mounting heights.
- C. Install fixtures tight to adjacent walls and/or floors. Wall hung fixtures shall not exhibit noticeable deflection when supporting 175 pounds weight on furthermost projection.
- D. Provide tight fitting sleeves over all exposed water rough-in nipples.
- E. Caulk joints between fixtures and walls with non-hardening silicon caulking. Provide caulking with color matching fixture or wall finish.
- F. Securely anchor fixture supports to adjacent floors and/or walls, and install in accordance with manufacturer's instructions. Secure floor mounted fixture supports to floor with 1/2-inch diameter bolts.
- G. Provide wall hung water closet fixture supports with anchor foot when supporting a single fixture. Secure fixture-supporting studs with double nuts at the fixture support.

END OF SECTION

Design Alaska, Inc. 22 42 13-2

1.1 SCOPE: SECTION 22 42 16 - COMMERCIAL LAVATORIES AND SINKS

A. This Section covers the selection and installation of lavatory and sink fixtures, accessories, and their connection to the domestic water and waste piping system.

1.2 SUBMITTALS

- A. Manufacturer's Data:
 - 1. Catalog cuts and selections for fixtures and accessory items.
 - a. Provide a separate complete submittal for each fixture type even though some trim items may be repeated in several fixtures.
 - b. Rough-in data for each fixture.

PART 2 PRODUCTS

2.1 GENERAL

- A. Provide IAPMO and ADA complying products and installations.
- B. Fixtures: Vitreous china and enameled cast iron fixtures shall be white and stainless steel fixtures natural polished satin finish without discoloration unless otherwise indicated.
- C. Rough-in sleeves: Polished chromium plated drawn brass tubing.
- D. Wall mounted lavatory fixture supports: Floor mounted, concealed arms with positive mechanical locking device, four-by-four inch base supports with welded high strength steel uprights, adjustable sleeve. Arms fully adjustable after installation of wall finish. J.R. Smith, Josam, or equal.

2.2 WALL MOUNTED LAVATORIES

- A. L-1: Concealed arm lavatory with concealed floor mounted support (ADA complying).
 - 1. Vitreous china, 20 by 18-inch lavatory with front overflow and integral back. American Standard Lucerne, Kohler Greenwich, or Mansfield equal.

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PART 3 EXECUTION

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3.1 INSTALLATION

- A. Connect water and waste to all items requiring same.
- B. Coordinate kitchen equipment rough-in locations, heights, and sizes with kitchen equipment supplier.
- C. Refer to the Architectural Drawings for fixture locations and mounting heights.
- D. Install fixtures tight to adjacent walls and/or floors. Wall hung fixtures shall not exhibit noticeable deflection when supporting 175 pounds weight on furthermost projection.
- E. Provide tight fitting sleeves over all exposed water rough-in nipples.
- F. Caulk joints between fixtures and walls with non-hardening silicon caulking. Provide caulking with color matching fixture or wall finish.
- G. Securely anchor fixture supports to adjacent floors and/or walls, and install in accordance with manufacturer's instructions. Secure floor mounted fixture supports to floor with 1/2-inch diameter bolts.
- H. In addition to floor connections, brace wall mounted lavatory fixture supports with channel strut or other framing member so that support is rigidly connected to adjacent wall framing studs.
- I. Reinforce plywood flooring with additional 1-1/8 inches plywood glued to underside of floor at all floor mounted fixture supports.

END OF SECTION

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PROJECT NO.: AJF 19-02C

1.1 SCOPE: SECTION 22 42 23 - COMMERCIAL SHOWERS

A. This Section covers the selection and installation of commercial shower fixtures, drains, accessories, and their connection to the domestic water and waste piping system.

1.2 SUBMITTALS

- A. Manufacturer's Data:
 - 1. Catalog cuts and selections for fixtures and accessory items.
 - a. Provide a separate complete submittal for each fixture type even though some trim items may be repeated in several fixtures.
 - b. Rough-in data for each fixture.

PART 2 PRODUCTS

2.1 GENERAL

A. Provide IAPMO and ADA complying products and installations.

2.2 WALL SHOWER

- A. SH-1: Handicap wall shower:
 - 1. Fixture: 14-gauge, type 304 stainless steel construction. Plumbing access panel. Diverter valve with lever handle. Wall mounted showerhead. Hand held shower spray with 59-inch stainless steel flexible hose and post style mounting bracket. In line backflow preventer with quick disconnect for flexible hose. Stops in supplies. All exposed parts either No. 4 finish stainless steel or chrome plated brass. Symmons Visu-Temp, without seat and grab bars, or equal.

2.3 SHOWER VALVE

A. Diaphragm operated, pressure balanced mixing valve with user visible thermometer and adjustable temperature limit stop. All exposed parts stainless steel or chrome plated. Integral stops. Symmons Visu-Temp 4-5000VT, or equal.

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2.4 SHOWER HEAD

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- A. Heads: Chrome plated brass, single spray pattern, universal ball joint, 1.5 GPM flow regulator, secure to stainless steel wall flange, Symmons 4-241 or equal.
- B. ADA Head: Hand held shower spray with 59-inch flexible stainless steel hose, vacuum breaker, and post style mounting bracket. Symmons H401-V or equal.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Connect water and waste to all items requiring same.
- B. Refer to the Architectural Drawings for fixture locations and mounting heights.
- C. Install fixtures tight to adjacent walls and/or floors. Wall hung fixtures shall not exhibit noticeable deflection when supporting 175 pounds weight on furthermost projection.
- D. Provide tight fitting sleeves over all exposed water rough-in nipples.
- E. Caulk joints between fixtures and walls with non-hardening silicon caulking. Provide caulking with color matching fixture or wall finish.

END OF SECTION

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1.1 SCOPE: SECTION 22 42 39 - COMMERCIAL FAUCETS, SUPPLIES, AND TRIM

A. This Section covers the selection and installation of commercial faucets, supplies, trim, accessories, and their connection to the domestic water piping system.

1.2 SUBMITTALS

A. Manufacturer's Data:

- 1. Catalog cuts and selections for fixtures and accessory items.
 - a. Provide a separate complete submittal for each fixture type even though some trim items may be repeated in several fixtures.
 - b. Rough-in data for each fixture.
 - c. Data showing parts in contact with domestic water are ANSI/NSF 61 rated to current lead free requirements.
- B. Application Schedule: Faucet, Supplies and Trim schedule indicating the type of product and materials, proposed for each size or application.

PART 2 PRODUCTS

2.1 SUPPLIES AND TRIM

- A. Fixture supply tubes concealed applications: Braided stainless steel outer sheath, inner PVC tubing, ANSI/NSF-61 certified, rated to 125 psi from 40 to 140 degrees F. Brasscraft, Speedway, Eastman, or equal.
- B. Fixture stops: Polished chromium plated, brass, compression disc, quarter turn, ANSI/NSF-61 certified, angle stop valves with inlet end connections to suit piping system. Fixed handle operated unless indicated otherwise. Brasscraft, Speedway, Eastman, or equal.
- C. Fixture traps, tailpieces, and trap arms: Unless otherwise indicated provide polished, chromium plated, drawn brass tubing not less than 17-gauge. Dearborne Brass 701/704, Brasscraft, Eastman, or equal.

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D. Tailpiece, trap, trap arm, stop valves, and supplies covers: ADA complying, molded closed cell vinyl, white, paintable, hidden fasteners. Truebro or equal.

2.2 ACCESSORIES

A. Strainer: Stainless steel strainer basket, neoprene stopper, chrome plated brass, 1-1/2 inch outlet with elbow for offset tailpiece. Elkay LK-35L or equal.

2.3 LAVATORY FAUCETS

- A. F-1: Lavatory faucets:
 - ADA, 4-inch single lever faucet handle, aerator, chrome plated brass construction, ANSI/NSF-61 certified, renewable seats. Chicago No. 420 and No. E12 Softflo aerator, Moen Chateau series, or equal.
 - 2. Drain: Stainless steel grid drain with 1-1/2 inch tailpiece. Elkay LK-18-B or equal.

PART 3 EXECUTION

3.1 SPECIALTIES

- A. Provide fixture supply tubes, fixture stops, and fixture traps, tailpieces, and trap arms at all fixtures requiring same.
- B. For fixtures with exposed supply tubes, provide polished brass. For concealed applications, braided stainless steel supply tubes may be used at Contractor's option.
- C. Install traps with no more than one slip or compression fitting between trap and roughin.
- D. Provide escutcheons over all fixture supply and trap tailpiece wall penetrations. Inside cabinet escutcheons may be primed and painted steel instead of chrome plated.

END OF SECTION

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