

ADDENDUM TO THE CONTRACT

for the

GLACIER FIRE STATION M/E UPGRADES & JUNEAU FIRE STATION GENERATOR REPLACEMENT

Contract No. BE22-108

ADDENDUM NO.: FIVE <u>CURRENT DEADLINE FOR BIDS</u>:

September 15, 2022

PREVIOUS ADDENDA: FOUR

ISSUED BY: City and Borough of Juneau

ENGINEERING DEPARTMENT 155 South Seward Street Juneau, Alaska 99801

DATE ADDENDUM ISSUED: September 2, 2022

The following items of the contract are modified as herein indicated. All other items remain the same. This addendum has been issued and is posted online. Please refer to the CBJ Engineering Public Purchase webpage at: https://www.publicpurchase.com/gems/juneau,ak/buyer/public/home

CLARIFICATIONS:

Question: "Can you please confirm if all the pipe to be demolished shown on sheet MD121 is in

utilidor or above ground?"

Response: All piping shown on MD111 and MD121 is above ground.

Question: "Can you please provide structural drawings for existing facility to confirm the floor

framing type for areas where patching may be required?"

Response: See attached original structural drawings.

Question: "Please confirm if the existing first floor is slab on grade?"

Response: See attached original structural drawings.

Question: "Can you please confirm if the floor finish (Concrete) in room 108 is required to be

patched after the equipment is removed?"

Response: Yes, concrete floor shall be patched where needed due to identified demolition work.

Question: "Please confirm if the wall penetration at location where ductwork is demolished above

ceiling finish required patch and repair."

Response: Yes, the opening will require patch and repair above ceiling. If the finish is not visible,

no painting shall be required.

Question: "Please confirm if patch and repair scope is restricted to scope shown on Architectural

drawings."

Response: The Architectural sheets call out major cut and patch work. Provide cut/patch work as

needed to support other electrical and mechanical work. Coordinate with Mechanical

and Electrical for further patching locations.

Question: "Please provide specification for existing metal siding and roofing membrane."

Response: See attached Manufacturer's cutsheets for metal siding and PVC roofing as installed

on the Glacier Fire Station in 2018 and 2020 respectively.

Question: "Sections 026100 – Contaminated Soil, paragraph 1.2 Summary, line E specifies

contractors to include in Bid a unit price for 200 tons. The bid package does not show

a separate break down for this unit price. Please clarify."

Response: See project Manual Items 2-4 in this Addendum.

Question: "Section 026500 – Aboveground and Underground Fuel Tanks, paragraph 1.3, line B

specifies that for bidding purposes, the removal and legal disposal of up to 10 cubic yards of contaminated soil will be included in Bid Item 026500. Can you please clarify if we must provide bid item breakdown as specified? If yes, where can we find the bid

breakdown proposal?"

Response: No breakdown is necessary for 026500, the cost for the first 10 CY of contaminated

soil removal is included in the bid, there will not be separate payment for the first 10 CY of soil encountered. On many projects, we encounter less than 10 CY, and including the first 10 CY in the bid keeps everything simpler. See project Manual Items

2-4 in this Addendum.

Question: "Please confirm if the scope of work shown on sheet C101 is only restricted to the

work shown in dashed square. The contractor is not responsible for stairs, temporary fence, landscaping and parking lot or any other work related to the areas outside the

dashed square."

Response: The intent of the dashed square illustrated on Sheet C101 was to identify the enlarged

plan view area limits only. It was not presented to identify specific work limits or work

that was responsible to be performed by the contractor.

Question: "Please confirm all the painted traffic markings are existing or clarify."

Response: All painted traffic markings shown are existing at the time that the field survey was

performed.

Question: "At the site walkthrough I noticed that there are line voltage conductors within the

existing mechanical control panel. I do not see demolition of this piece of equipment

specifically noted in the electrical documents. Is the demolition of the wiring associated with the mechanical control cabinet to be performed by the controls contractor under division 23 or by the electricians under division 26? Are the conductors to be demolished to the source or to be retained for use by new

equipment?"

Response: Demolish circuit associated with mechanical control panel. Demolition of line voltage

conductors is typically performed by the electrical contractor, unless otherwise

negotiated with other trades bidding the project. Coordination the full scope of

September 2, 2022

demolition with the mechanical drawings.

Question: "Per sheet note 2 on E203, we are directed to install 2ea. addressable fire alarm

relays for fan shutdown. Upon inspection, the Silent Knight SK-5208 FACP is a conventional panel and not capable of adding addressable relays. It appears that there are 2 programmable relays available on the existing panel, is it desired to use a single relay to shut down both fans or a relay per fan? Is there a different method that

is preferred for fan shutdown?"

Response: A single programmable relay is acceptable to shut down both fans.

Question: "Per sheet Detail 2 on Sheet E301, we are to demolish the existing ATS inside the

MSB and route around it with conductors from the new ATS. The MSB is shown as a 1600A rated piece of gear with a 700A and 900A breaker. The MSB is a 1600 amp

but the ATS only supplies power to the 1000A piece of the switchgear per its

nameplate. My question is, will it be acceptable for the 1200A generator feed from the generator to terminate onto the 1000A rated bus of the switchgear section that provides power to the breaker spaces or will routing these conductors differently be necessary? It looks like the trip unit on the breaker is to be electronic and potentially adjustable. Can it be confirmed that the trip setting can be adjusted within tolerance of the MSB? Also, can the desired setting be provided if we are to adjust the trip rating

below the 1200A shown?"

Response: The trip rating of the generator circuit breaker will be coordinated with the MSB bus

rating. This issue will be handled by the Owner.

Question: "Specification 260000 1.15(E), (F), & (G) call for temporary power connections to the

Apparatus Bay Doors, Station Alerting System, & Radio Communication System. Can

the power requirements for these systems be further clarified? Also, can it be

confirmed that only these systems will require temporary power connections when the

main switchboard is being replaced?"

Response: Glacier Station

Structural Apparatus 129: (8) overhead doors, 120V, 3/4 HP.

EMS Bay 132: (1) overhead door, 120V, 3/4 HP.

Apparatus 143: (3) bi-fold doors, 208V, 3-phase, 1 HP.

Telephone 117: (2) 120V, 20A circuits for analog telephone system.

Day Room 119: (2) 120V, 20A circuits for station alerting system UPS's.

Dispatch 138: (1) 120V, 20A circuit for data equipment rack UPS.

Dispatch 138: (1) 120V, 20A circuit for radio equipment rack UPS.

Juneau Station

Apparatus 136: (9) overhead doors, 120V, 1/2 HP.

Storage 114: (1) 120V, 20A circuit for data equipment rack UPS.

Storage 114: (1) 120V, 20A circuit for analog telephone system.

Ambulance Storage 112: (2) 120V, 30A circuits for data rack UPS's.

Ambulance Storage 112: (1) 120V, 20A circuit for data system auxiliary equipment.

Watch 109: (2) 120V, 20A circuit for station alerting system UPS's. Watch 109: (1) 120V, 20A circuit for intercom equipment rack UPS.

In addition to the specific loads listed above, comply with Specification Sections

11000, 1.9, C and 015000, 3.1.

Question: "Sheet MD301 shows demolition of boiler housekeeping pads. Will the Generator and

pumps housekeeping pad needs to be demolished as well?"

Response: Sheet MD301 shows demolition of boiler housekeeping pads. Will the Generator and

pumps housekeeping pad needs to be demolished as well?

Question: "Please confirm if we will required to demolish the housekeeping pad located at

Juneau Fire Station Generator Room as well?"

Response: Generator sits on rail structure with vibration isolators anchored to concrete slab.

Demolish support system for generator. Patch floor.

Question: "Can you please provide additional information or drawings for the new housekeeping

pad shown in Mechanical room 108 on sheet M301."

Response: Concrete housekeeping pad shall be 3-1/2 inches tall, extending 6-inches each side

of equipment. Provide #3 rebar @ 10"oc each way with bent #4 bars @12"oc each way embedded 2-1/2" into the existing slab below (minimum of 4 embeds per pad). Use bonding compound between concrete surfaces. Provide 3/4" chamfer at edges. Coordinate with mechanical and electrical drawings and equipment supplier for size

and location of pads.

Question: "When was the existing roof membrane installed? Note G on A001 states 'MATCH

EXISTING MEMBRANE AND PATCH SO AS TO NOT VOID THE WARRANTY OF THE MEMBRANE.' If the roofing is still under warranty, can you please confirm who

was the installer?"

Response: The roofing installer at the Glacier Fire Station was: Alaska Commercial Contractors,

Juneau, Alaska. It was installed in 2018 and is under Manufacturer's warranty.

Question: "Detail 4 on A801 says that the membrane is 80mil PVC, can you please provide the

brand to match the existing?"

Response: The existing roofing at Glacier Fire Station is CARLISLE "Sure Flex", 80mil PVC.

Color: Gray.

PROJECT MANUAL:

Item No. 1. SECTION 00030 – NOTICE INVITING BIDS, Completion of Work.

Replace the Completion of Work table **with** the following:

Work Description

Completion Date

Downtown Fire Station – Substantial Completion	September 1, 2023
Downtown Fire Station – Final Completion	September 20, 2023
Glacier Fire Station – Substantial Completion	February 16, 2024
Glacier Fire Station – Final Completion	March 1, 2024

Item No. 2. SECTION 00310 – BID SCHEDULE.

Delete Section 00310 in its entirety and **replace** with the attached Section 00310, labeled ADDENDUM 5.

Unit price added for 200CY of contaminated soil removal and replacement.

Item No. 3. SECTION 026100 – CONTAMINATED SOIL, Article 1.2 SUMMARY, Paragraphs D and E.

Replace Paragraphs 1.2 D and 1.2 E with the following:

- D. This Section addresses the removal and replacement of contaminated soil up to a project total of 210 cubic yards (CY), should it be encountered as part of this project. The first 10 CY are included in the bid for Item 026500 ABOVEGROUND AND UNDERGROUND STORAGE TANKS.
- E. Bid Quantity for the Item covered in this Section is 200 CY. Unit price for material shall be included in the Contractor's Bid (total Item price divided by 200 CY). Contractor shall be paid for actual quantity on this Item based on this Unit Price for any quantity between 11 CY and 210 CY.
- Item No. 4. SECTION 026500 ABOVEGROUND AND UNDERGROUND FUEL TANKS, Article 1.3 SCOPE OF WORK, Paragraph B.

Replace Paragraph 1.3 B with the following:

- B. It is assumed for bidding purposes that the removal and legal disposal of up to 10 cubic yards (CY) of contaminated soil will be included in Bid Item 026500 ABOVEGROUND AND UNDERGROUND FUEL TANKS. Up to 10 CY of contaminated soil removed as part of this Bid Item is to be moved from both sites and treated in compliance with applicable regulations.
- Item No. 5. SECTION 211300 FIRE SUPPRESSION SPRINKLERS, Article 1.2 SUMMARY OF WORK, Paragraph B.

Replace Paragraph B with the following:

- B. It is acceptable to retain existing head location and utilize same escutcheon type when replacing the head and escutcheon with new.
- Item No. 6. SECTION 211300 FIRE SUPPRESSION SPRINKLERS, Article 2.2 SPRINKLERS, Paragraph A.

Replace "Recessed pendant type with matching push on escutcheon plate" with "Pendant type with escutcheon matching existing type and length".

Item No. 7. SECTION 230923 – DIRECT DIGITAL CONTROL SYSTEM, Article 1.2 DESCRIPTION OF WORK & SYSTEM DESCRIPTION, Paragraph K.

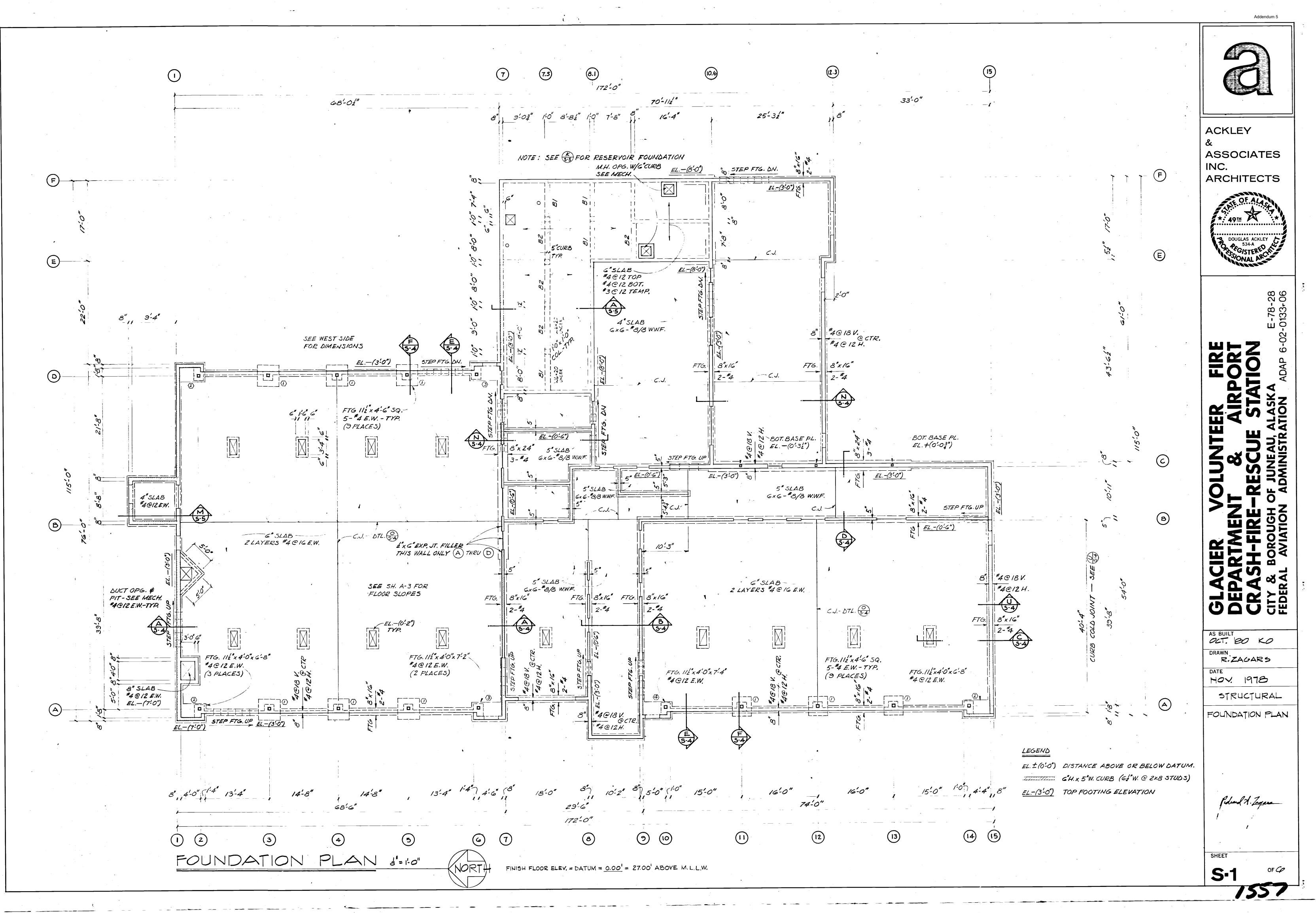
Add the following sentences to the end of Paragraph K:

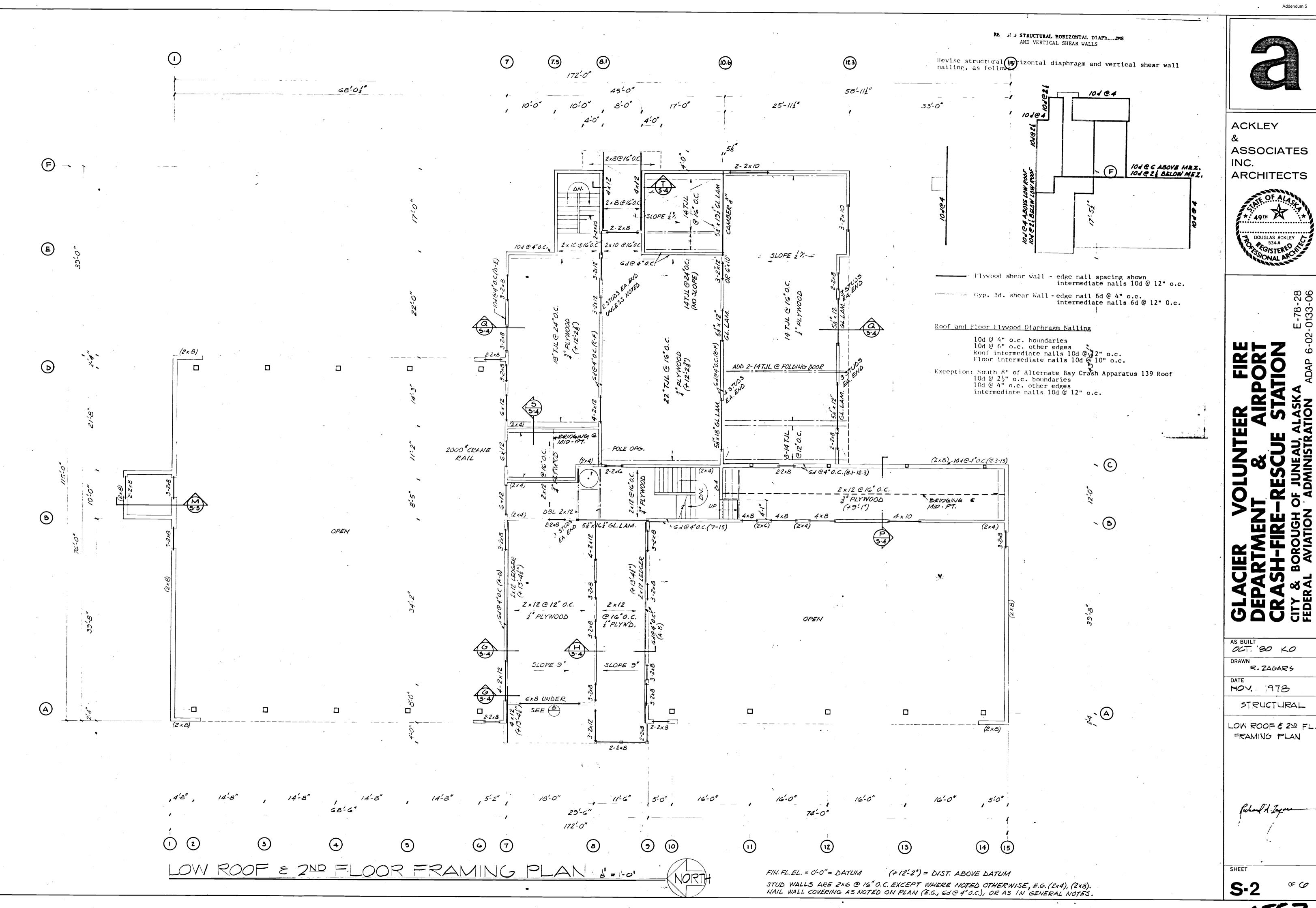
Where tubing is concealed within walls or above gyp ceiling, it is acceptable to abandon and cap the inaccessible tubing where that tubing cannot be removed without additional demolition of building walls/ceilings. All tubing located exposed or where located above accessible ceilings shall be removed.

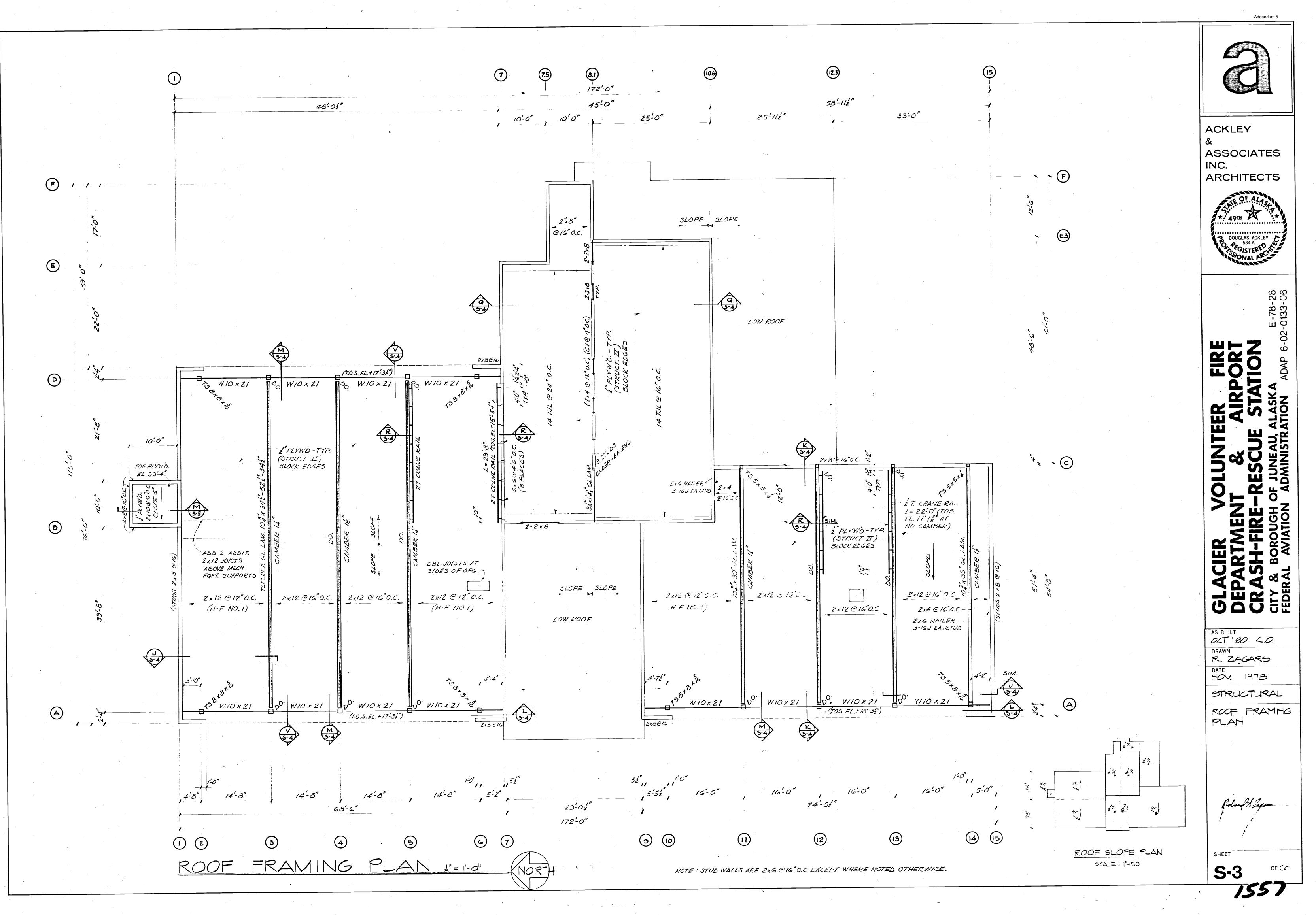
By: for Caleb Comas

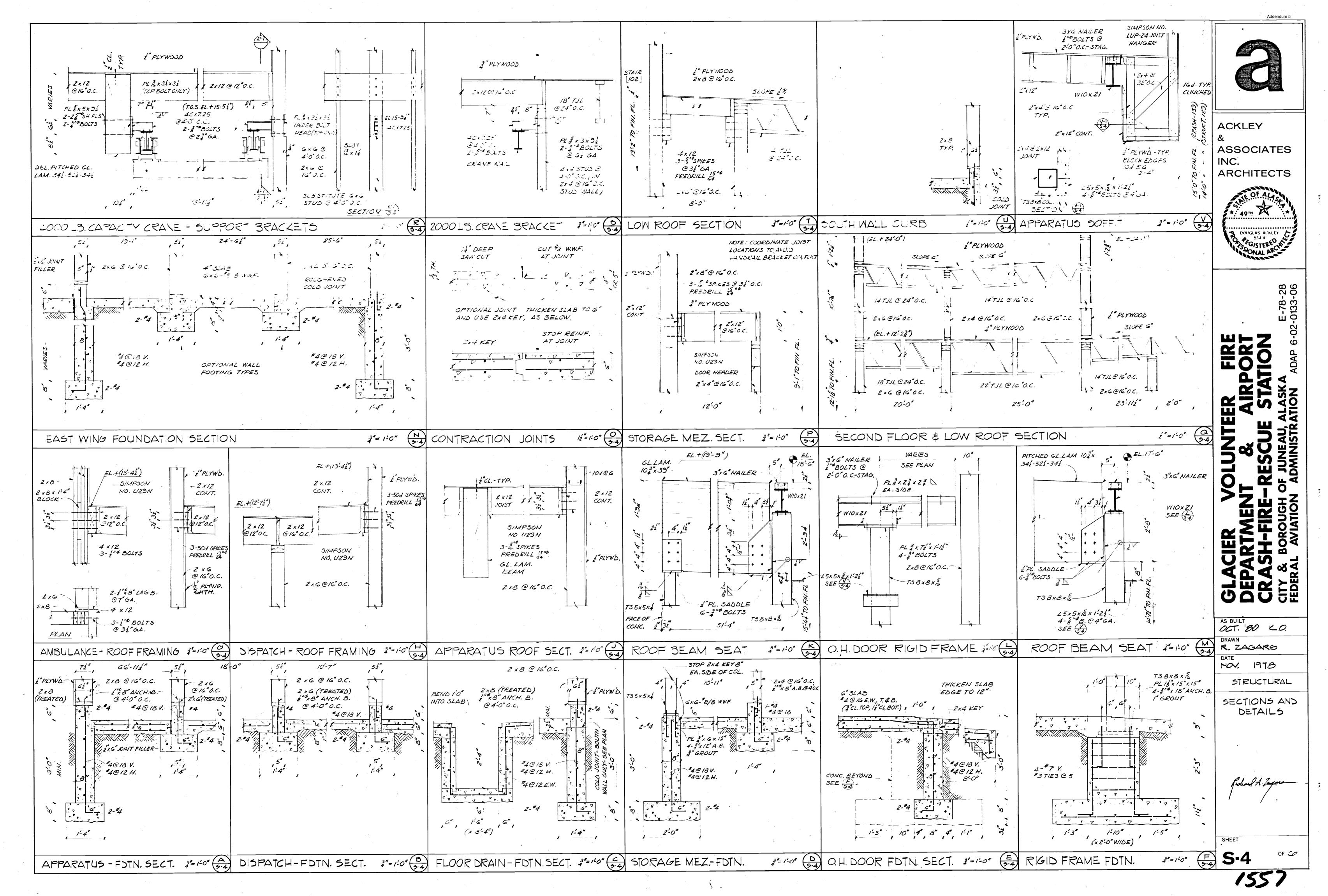
Caleb Comas, Contract Administrator

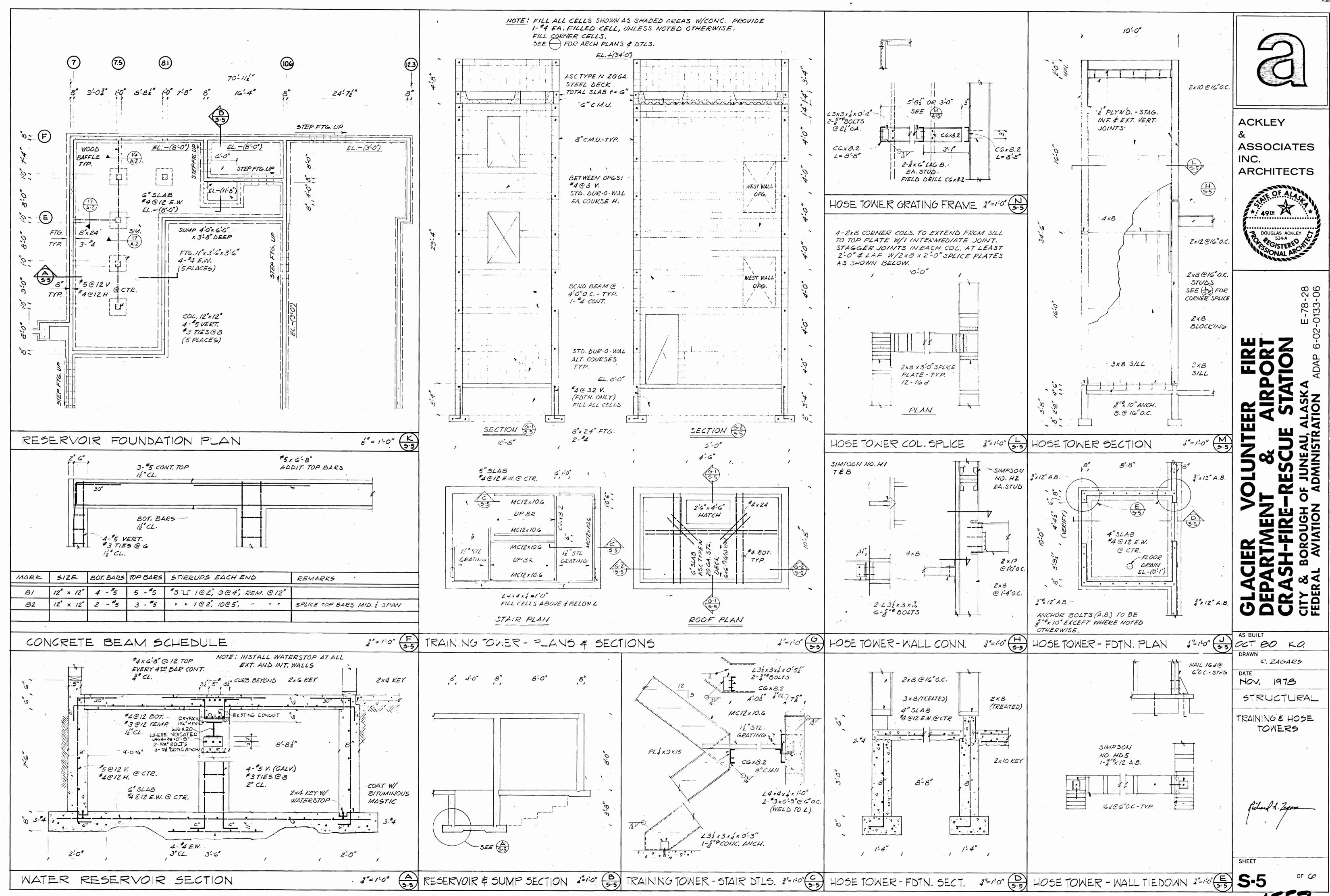
Total number of pages contained within this Addendum: 15











GENERAL NOTES

LIVE LOADS

40 psf Snow 60 psf * Low Roof Second Floor: Stairs & Corridors 125 psf Mezzanine 50 psf Other First Floor: Apparatus 100 psf

Other

Earthquake

UBC Zone 3 (Importance Factor

FOUNDATION

3000 psf Existing Gravelly Sand Excavate as required to the bottom of footings. Compact existing material to 95% of relative dry density prior to formwork.

Compacted Granular Fill 3000 psf Fill with approved non-frost susceptible granular material in 12-inch horizontal lifts, loose measurement, and compact to a minimum of 95% of relative dry density.

CONCRETE

Concrete Stress f' = 3000 psi in 28 days. Reinforcing Steel ASTM A615, Grade 60. Welded Wire Fabric ASTM A185, 6x6-#8/8 and 6x6-#10/10.

Reinforcing steel shall have clear embedment in concrete as follows, unless noted otherwise:

> Footings Wall (against earth) Wall (exposed to weather) Wall (inside face) Structural Slab (top) Structural Slab (bot)

Maximum aggregate size shall be 3/4" for slabs and walls under 8" thick, and $1\frac{1}{2}$ " for footings and walls 8" thick and thicker.

Lap all reinforcing 1'-6" minimum, unless detailed otherwise.

CONCRETE MASONRY UNITS

Grade A Concrete Masonry Units (C.M.U.) Type M Mortar

Fill corner cells and those adjacent to door and window openings with concrete and 1 - #4 rebar. Provide Standard Dur-O-Wal reinforcement at alternate courses. Add additional reinforcing as shown on Sheet S-5.

All structural steel shapes shall be ASTM A36 and tubing ASTM A501. Bolts shall be ASTM A325, friction-type connections. Welding electrodes shall comply with ASTM 233 E70. Paint all steelwork after fabrication with one coat of shop paint (red oxide) unless noted otherwise. After erection, touch-up abraided areas and paint all field welds and bolts with paint similar to shop paint. Match shop color where exposed to view.

WOOD

Glued-laminated members shall be Douglas Fir, Combination Symbol 22F, Wet-Use adhesives.

Manufacture of the structural glued laminated timber shall conform to the manufacturing requirements of the American Institute of Timber Construction Standards AITC 100, and Standard Specifications for Structural Glued Laminated Timber, AITC 117-71.

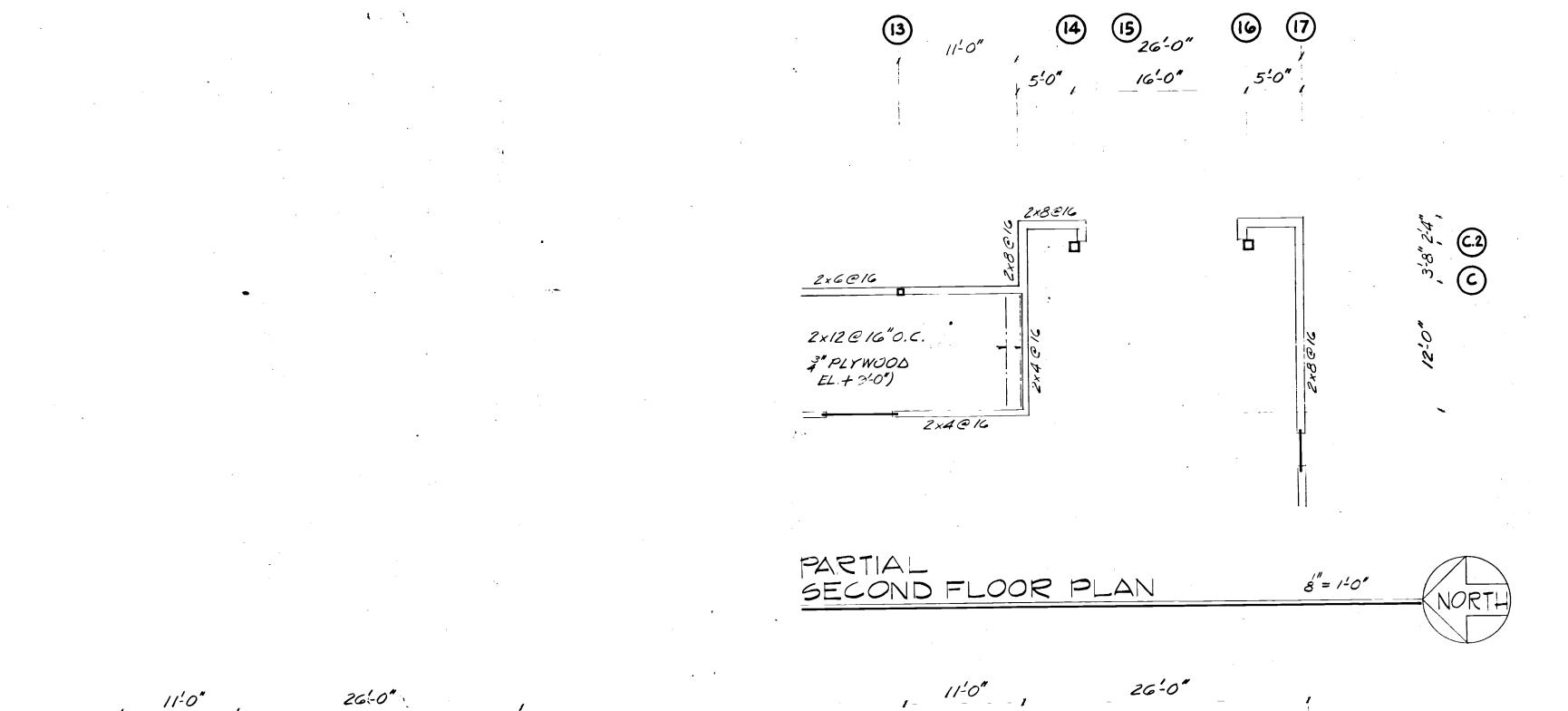
Wood framing shall be Hem-Fir No. 2, except where noted to be Hem-Fir No. 1.

TJL Trus-Joists and accessories shall be the standard product of the Trus-Joist Corporation.

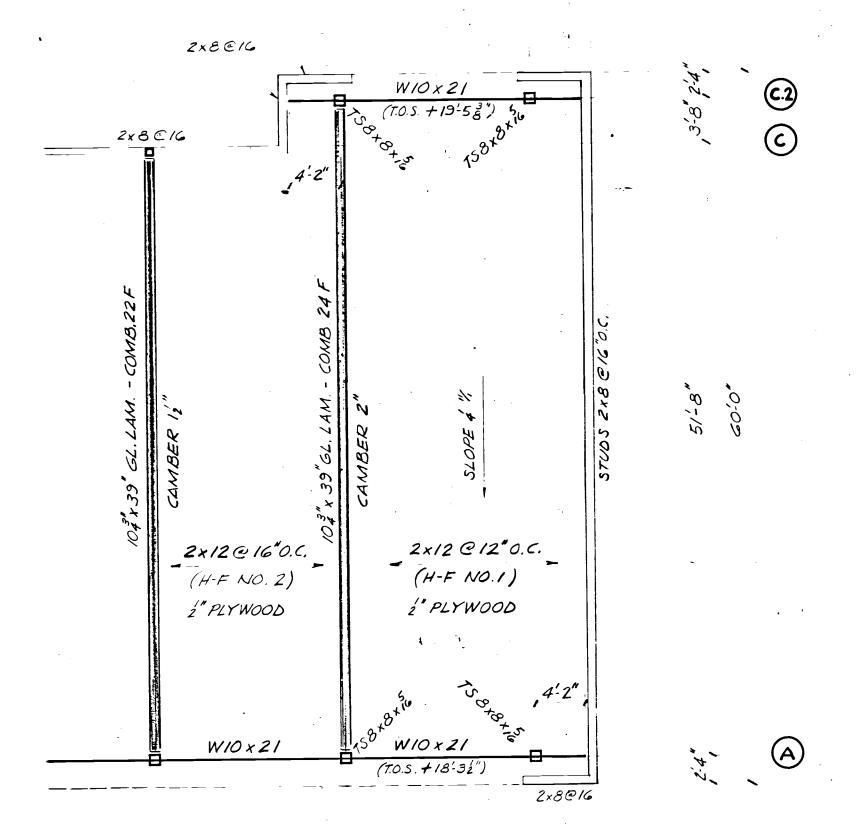
Roof, floor and exterior wall sheathing plywood shall be Structural II C-D Int- APA.

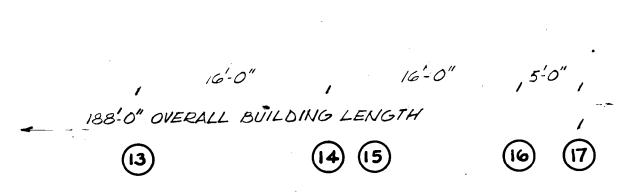
Nail roof and floor sheathing with 8d @ 6" o.c. edges, 12" o.c. intermediate, with ring-shank nails. Install with face grain perpendicular to supports, unblocked edges unless noted otherwise.

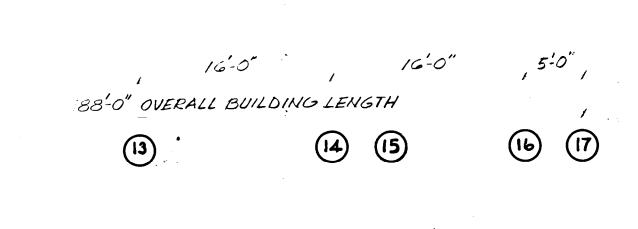
Nail wall sheathing with 10d @ 6" o.c. edges, 12" o.c. intermediate, with ring-shank nails. Install panels vertically or horizontally, all edges blocked.



C.J.







6" SLAB 2LAYERS "4@16 E.W.

(EL. - 0'2")

FTG. 1/2"x 4-0"x 6-8"

#4 @ 12 E.W.

(5 PLACES)

(EL.-0'2")

PARTIAL ROOF FRAMING PLAN

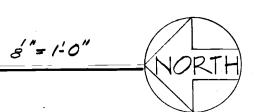


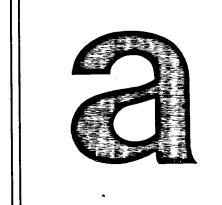
PARTIAL FIRST FLOOR PLAN

FTG. 1/2 x 4.6" SQ.

5-#4 E.W.

(10 PLACES)





ACKLEY ASSOCIATES INC. **ARCHITECTS**



AS BUILT OCT. '80 R. ZAGARS

STRUCTURAL

HOV. 1978

ALTERNATE BAY

Pulsed & Tegers -

OF CF

SHEET

Contractor Project No.: 1050015

Glacier Fire Station Siding Replacement

Owner Contract No.: BE20-182

O & M DATA SHEET

Specification Section / Drawing Number / Detail Number: 074213.13

Name of Item / Drawing Equipment Number: Metal Wall Panels

Manufacturer / Model Number: Metal Sales/ T13, TLC-1 & 7/8" Corrugated

Use and Location: Refer to plans

Size / Capacity: All panels are 24ga. T13: 24" wide, TLC-1: 12" wide, & 7/8"

Corrugated: 34.67" wide

Supplier: Pac-Rim Building Supply 3901 Raymond Ave SW, Renton, WA 98057,

United States

Phone: 425-251-3700

Source of Spare Parts: Pac-Rim Building Supply 3901 Raymond Ave SW,

Renton, WA 98057, United States

Phone: 425-251-3700

Provider(s) of Warranty Service: See Metal Sales warranty Subcontractor:

Other Contractor Comments: For Maintenance - refer to Metal Sales's

Maintenance & Valspar's - Cleaning and Maintenance Guide

CONTRACTOR REVIEW: Carver Construction LLC Reviewed By: James

Malapanis

Signature:

Title: Project Manager

Date: 05-06-2021



Sure-Flex PVC Membrane

Typical Properties and Characteristics ASTM D4434 80-mil Physical Property 60-mil Requirement 0.016 min 0.022 0.027 (0.686) 0.037 Thickness over scrim, in. (mm) ASTM D4434 optical method (0.40)(0.559)(0.940)average of 3 areas Weight, lbs/ft2 (kg/m2) No requirement 0.33 (1.61) 0.40 (1.95) 0.55 (2.68)Breaking strength (MD x CD), lbf/in 275 min 320 x 300 330 x 300 (58 360 x 330 (kN/m) ASTM D751 grab method (48)(56 x 53) x 55) (63 x 58) Elongation break of reinforcement (MD 25 min 30 x 30 30 x 30 30 x 30 x CD), % ASTM D751 grab method Tearing strength (MD x CD), lbf (N) 100 x 120 100 x 130 100 x 132 ASTM D751 proc. B, 8 in. x 8 in. (400) (445 x 534) (445 x 578) (445 x 587) Low temperature bend, ASTM PASS PASS PASS PASS D2135,no cracks 5x at -40°C (-40°C) (-40°C) (-40°C) Linear dimensional change, % ASTM ±0.5 max 0.4 0.4 0.4 D1204, 6 hours at 176°F Ozone resistance, no cracks 7x ASTM PASS PASS PASS D1149, 100pphm, 168 hrs Water absorption resistance, mass % 2.0 2.0 2.0 ±3.0 max ASTM D570, 166 hours at 158°F water Field seam strength, lbf/in. (kN/m) 25 (4.4) min 25 (4.4) min 25 (4.4) min No requirement 60 (10.5) typ. 60 (10.5) ASTM D1876 tested in peel 60 (10.5) typ Water vapor permeance, Perms, 0.10 max 0.10 max 0.10 max No requirement ASTM E96 proc. B 0.05 typ 0.05 typ 0.05 typ 380 Puncture resistance - Federal, lbf (kN) No requirement 280 320 FTM 101C, method 2031 PASS PASS PASS 20 (14.7) Puncture resistance - Dynamic, J (ft-lbf) ASTM D5635 Puncture resistance - Static, lbf (N) 33 (145) PASS PASS PASS **ASTM D5602** PASS PASS Xenon-Arc resistance, no PASS PASS cracks/ crazing 10x, ASTM G155 0.35 W/m2 at 340-nm, 63°C B.P.T. 12,600 kJ/m2 total radiant exposure 10,000 hours 90 min 90 min 90 min 90 min Properties after heat aging ASTM D3045, 56 days at 176°F 90 min 90 min 90 min 90 min Breaking strength, % retained

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

Radiative Properties for ENERGY STAR®*, Cool Roof Rating Council (CRRC), and LEED®

Physical Property	Test Method	White PVC	Tan PVC	Gray PVC
ENERGY STAR - E-903 Initial Solar Reflectance	Solar Spectrum Reflectometer	0.86	0.73	0.59
ENERGY STAR - E-903 Solar Reflectance after 3 years	Solar Spectrum Reflectometer (Uncleaned)	0.63	Pending	Pending
CRRC - Initial Solar Reflectance	ASTM C1549	0.86	0.73	0.59
CRRC - Solar Reflectance after 3 years	ASTM C1549 (uncleaned)	0.63	0.60*	0.48*
CRRC - Initial Thermal Emittance	ASTM C1371	0.89	0.86	0.85
CRRC - Thermal Emittance after 3 years	ASTM C1371 (uncleaned)	0.87	0.82*	0.81*
Solar Reflective Index (SRI)	ASTM E1980	108	89	69
Solar Reflective Index (SRI) SRI after 3 years	ASTM E1980	75	70*	53*

^{*} Rapid Ratings

LEED Information			
Pre-consumer Recycled Content	10%		
Post-consumer Recycled Content	0%		
Manufacturing Location	Greenville, IL		
Solar Reflectance Index (SRI), Initial	White: 108, Tan: 89, Gray: 69		

Supplemental Approvals, Statements and Characteristics

- » Sure-Flex PVC meets or exceeds the requirements of ASTM D4434 Standard Specification for Poly (Vinyl Chloride) Sheet Roofing. Sure-Flex PVC is classified as Type III and/or Type IV as defined by ASTM D4434.
- Sure-Flex reinforced PVC was tested for dynamic puncture resistance per ASTM D5635-04 using the most recently modified impact head. 50-mil thick membrane was watertight after an impact energy of 22.5 J (16.6 ft-lbf), which passes the ASTM D4434 requirement.
- » Sure-Flex reinforced PVC was tested for static puncture resistance per ASTM D5602-98 and exceeded 33 lbf (145 N), which passes the ASTM D4434 requirement.

Elongation reinf., % retained

SECTION 00310 - BID SCHEDULE

Bid Schedule for construction of BE22-108- Glacier Fire Station M/E Upgrades & Juneau Fire Station	on
Generator Replacement, in accordance with the Contract Documents.	

Item 1 – Renovation to the existing Glacier Fire Station to replace existing mechanical and electrical equipment that is past its useful life, and perform all WORK as described in these Contract Documents. Associated Work includes the installation by the Contractor of Owner Furnished generators for both the Glacier Fire Station and the Juneau Fire Station.

\$
 (Price in Figures)

Item 2 – 200 CY of contaminated soil removal and replacement per Section 026100.

Item	Pay Unit	Quantity	Unit Price	Total
Contaminated Soil				
Removal and				
Replacement	CY	200		

TOTAL BID \$			
		(Price in Figures)	
Date:	Bidder:		
		(Company Name)	

END OF SECTION

GLACIER FIRE STATION M/E UPGRADES & JUNEAU FIRE STATION GENERATOR REPLACEMENT CBJ Contract No. BE22-108