# ADDENDUM #2

## Utqiagvik Courthouse Upgrades
## Bid Package
## PROJECT #UTQ-C-25-0015

Date: **August 6, 2025**

To All Plan Holders:

The following changes, additions, clarifications, and/or deletions are hereby made a part of the Contract Documents for the above noted project, fully and completely as if the same were fully contained therein. All other terms, conditions, and specifications of the original Invitation to Bid remain unchanged.

**This amendment must be acknowledged in the space provided on the Bid Schedule.**

The required date and time for Bid Submittal has not changed and remains September 23, 2025 at 12:00 PM.

The changes/clarifications directed by this Addendum #2 are described on this 1 (one) page.

**Questions/Answers:**

1. Question: Please provide basis of design for carpet specifications. What is the existing carpet manufacture and product line that is supposed to be matched? Answer: Please refer to the finish legend on page 5 of the drawings, CPT-1: Tile Carpeting

2. Question: No height is provided for ballistic glazing windows on the drawings. Please confirm that the ADA counter window is to be 4'-2" overall height and 4'-10" overall width while the regular counter window is to be 3'-7" overall height and 3'-3.5" overall width. Answer: The finished ceiling height is 9’2” and the top of the wall panel will match to the existing door frame. The measurement for the glass itself will need to be field verified.

3. Question: Please confirm what the 6" below and above the ballistic glazing is. Is this a part of the frame? Do manufactures need to have exactly 6" frames or can it be manufactures standard frame width in the opening? Answer: The 6” gap above and below the glass is our design standard, please bid based on those measurements.

4. Question: What level of ballistic glazing is specified? Answer: Please refer to the Project Specifications on page 7 of the drawings, section 064023 Interior Architectural Millwork

5. Question: Sheet A-101 notes that there is no change to the sprinkler system. But pages A-102 & A-103 not D5 and N5 indicate changes to the sprinkler system. Please clarify. Answer: Please see revised sheet A-101 on the updated drawings attached.

END OF ADDENDUM #2

# BARROW COURTHOUSE - *CLERK COUNTER REMODEL & SERVER ROOM UPGRADES*

## 1250 AGVIK ST, UTQIAGVIK, AK 99723

## 100% PERMIT DOCUMENTS

## APRIL 24, 2025

## PROJECT TEAM


**PROJECT MANAGER:**

STANTEC
3900 C STREET,
SUITE 902
ANCHORAGE AK 99503
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EMAIL: GIOVANNA.GAMBARDELLA@STANTEC.COM

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**ARCHITECTURAL DESIGNER:**

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EMAIL: SEREEN.ATARI@STANTEC.COM

**MECHANICAL:**

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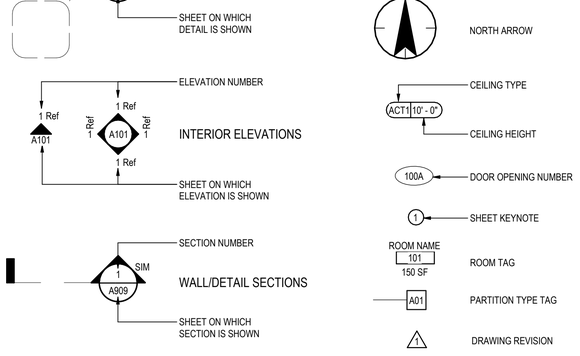
ANCHORAGE AK 99503
CONTACT:
NAZIM GANTIWALA
TEL: 872.336.1488
EMAIL: NAZIM.GANTIWALA@STANTEC.COM

**ELECTRICAL:**

STANTEC
475 RIVERSTONE WAY,
UNIT 3
FAIRBANKS AK 99709
CONTACT:
COREY ROGERS
TEL: 907.343.5266
EMAIL: COREY.ROGERS@STANTEC.COM

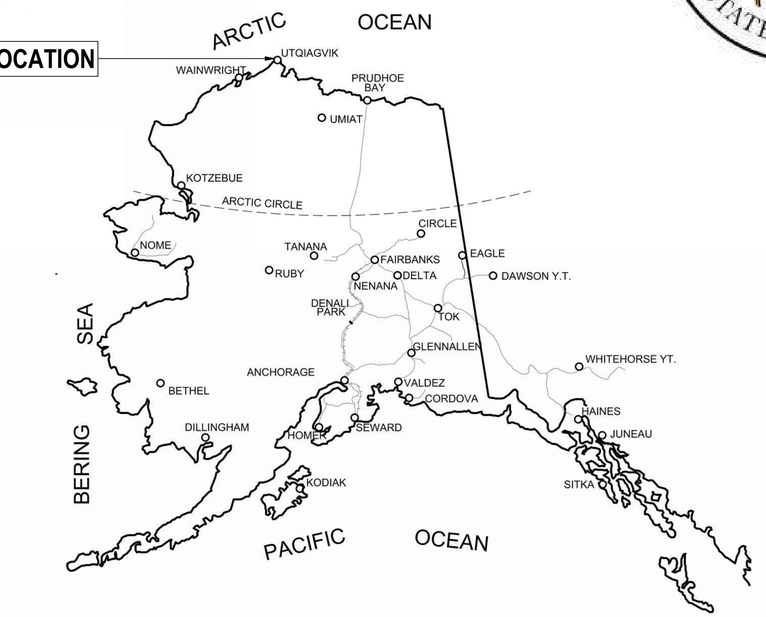

## SYMBOLS




## DRAWING LIST

| NO. | DRAWING NAME |
|---|---|
| GENERAL | |
| G-001 | COVERSHEET |
| ARCHITECTURAL | |
| A-101 | OVERALL FLOOR PLAN |
| A-102 | DEMOLITION AND NEW FLOOR PLANS |
| A-103 | DEMOLITION AND NEW REFLECTED CEILING PLANS |
| A-104 | ELEVATIONS, DETAILS, AND FINISH SCHEDULE |
| A-105 | COURT BENCHES ENLARGED PLANS AND DETAILS |
| A-106 | SPECIFICATIONS |
| MECHANICAL | |
| M-001 | MECHANICAL COVER SHEET |
| M-002 | MECHANICAL SPECIFICATIONS |
| M-101 | MECHANICAL DEMOLITION PLAN |
| M-201 | MECHANICAL FLOOR PLAN |
| M-501 | MECHANICAL DETAILS AND SCHEDULES |
| ELECTRICAL | |
| E-101 | ELECTRICAL LIGHTING AND POWER PLAN |
| E-102 | ELECTRICAL SPECIFICATIONS |

**PROJECT LOCATION**




**PROJECT LOCATION**



TRUE NORTH


Stantec
Stantec Architecture Inc.
3900 C Street
Suite 902
Anchorage, AK 99503-5938
Tel: (907) 276-4245 • www.stantec.com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Consultant

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|---|---|---|---|---|
| 1 | 100% PERMIT DOCUMENTS | SA | EJD | 04/24/2025 |

Permit/Seal

STATE OF ALASKA
49 TH
Erik J. Dukes
No. 107233
REGISTERED PROFESSIONAL ARCHITECT

ALASKA COURT SYSTEM

BARROW COURTHOUSE
CLERK COUNTER
REMODEL PERMIT
DOCUMENTS
1250 AGVIK STREET
UTQIAGVIK AK 99723

Project No.:2014341790

Title
COVERSHEET

Scale: As indicated
Revision: 1
Drawing No. **G-001**


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4/24/2025 2:07:37 PM
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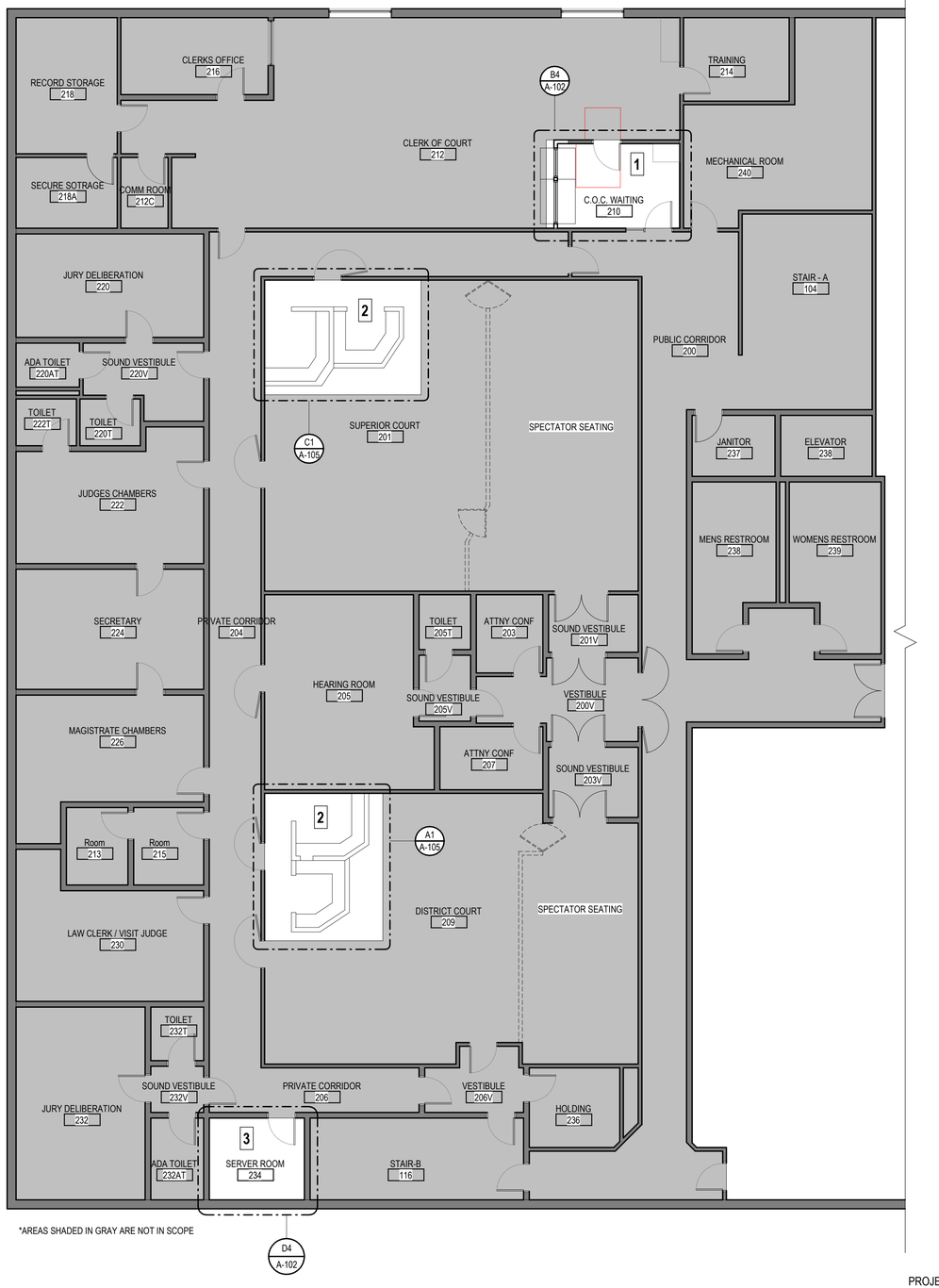


*AREAS SHADED IN GRAY ARE NOT IN SCOPE

PROJECT NORTH

A1 A-101 **OVERALL SECOND FLOOR PLAN**

1/8" = 1'-0"

# PROJECT INFORMATION & CODE SUMMARY

AUTHORITY HAVING JURISDICTION (AHJ):
STATE OF ALASKA

PROJECT SUMMARY:
THIS PROJECT COMPRISES OF MINOR INTERIOR ALTERATIONS AT THE BARROW COURTHOUSE. ALTERATIONS INCLUDE REPLACEMENT OF SELECTED INTERIOR FINISHES AND CASEWORK, MINOR SPACE RECONFIGURATION. THE PROJECT DOES INCLUDE MINOR ELECTRICAL AND MECHANICAL ALTERATIONS, IT DOES NOT INCLUDE ANY STRUCTURAL ALTERATIONS. THE PROJECT DOES NOT INCLUDE OR REQUIRE ANY CHANGES TO THE EXISTING EGRESS PATH NOR DOES IT ALTER EXISTING OCCUPANCY TYPES AND LOADS.

TENANT ADDRESS:
BARROW COURTHOUSE - ALASKA COURT SYSTEM (ACS)
1250 AGVIK ST
UTQIAGVIK, AK 99723

APPLICABLE CODES:
2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL EXISTING BUILDING CODE
2009 ICC ANSI A117.1
2017 NATIONAL ELECTRICAL CODE (NEC) (NFPA 70)
2018 INTERNATIONAL MECHANICAL CODE (IMC)

EXISTING BUILDING AND CODE INFORMATION PROVIDED BY OWNER:
SCOPE OF WORK (SOW) AREA:
CONSTRUCTION TYPE:
V-ONE HOUR (ORIGINAL CONSTRUCTION)
SPRINKLERS:
SPRINKLERED, SEE SHEETS A-102 AND A-103 FOR MORE INFORMATION ON ADDITION OF SPRINKLERS. 2

# SCOPE OF WORK

1. CLERK COUNTER UPGRADE
2. BALLISTIC SHIELDING FOR JUDGE'S BENCHES
3. MECHANICAL COOLING FOR SERVER ROOM

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Suite 902
Anchorage, AK 99503-5938
Tel: (907) 274-4245 • www.stantec.com

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|---|---|---|---|---|
| 1 | 100% PERMIT DOCUMENTS | SA | EJD | 04/24/2025 |
| 2 | ADDENDUM #1 | SA | EJD | 08/05/2025 |

Permit/Seal

STATE OF ALASKA 49 TH
Erik J. Dukes
No. 107233
REGISTERED PROFESSIONAL ARCHITECT

ALASKA COURT SYSTEM

BARROW COURTHOUSE
CLERK COUNTER
REMODEL PERMIT
DOCUMENTS
1250 AGVIK STREET
UTQIAGVIK AK 99723

Project No.:2014341790

Title
OVERALL FLOOR PLAN

Scale: As indicated
Revision: **2**
Drawing No. **A-101**

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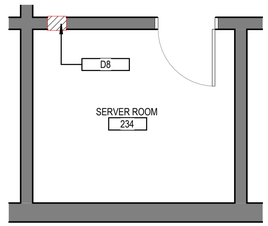
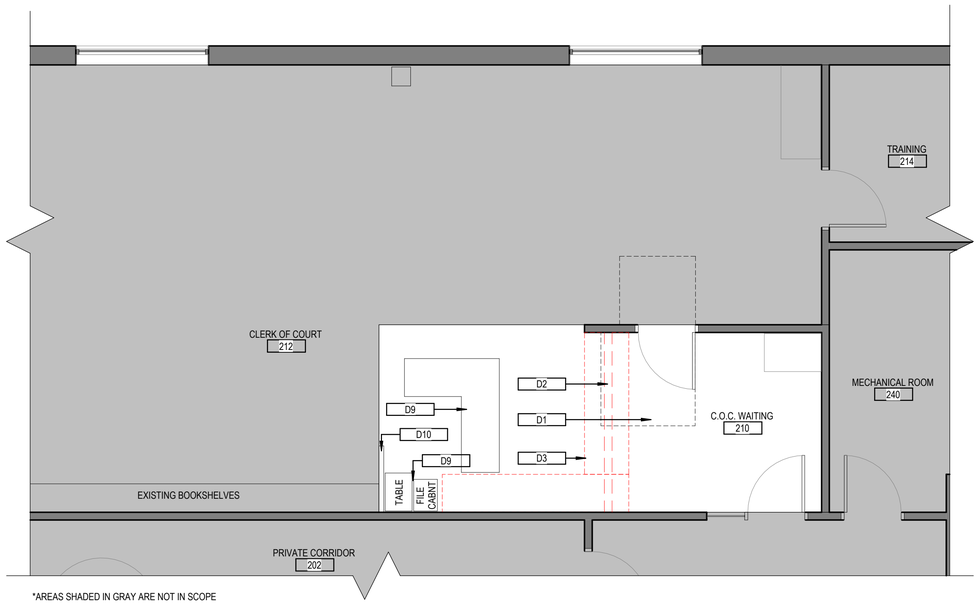



PROJECT NORTH

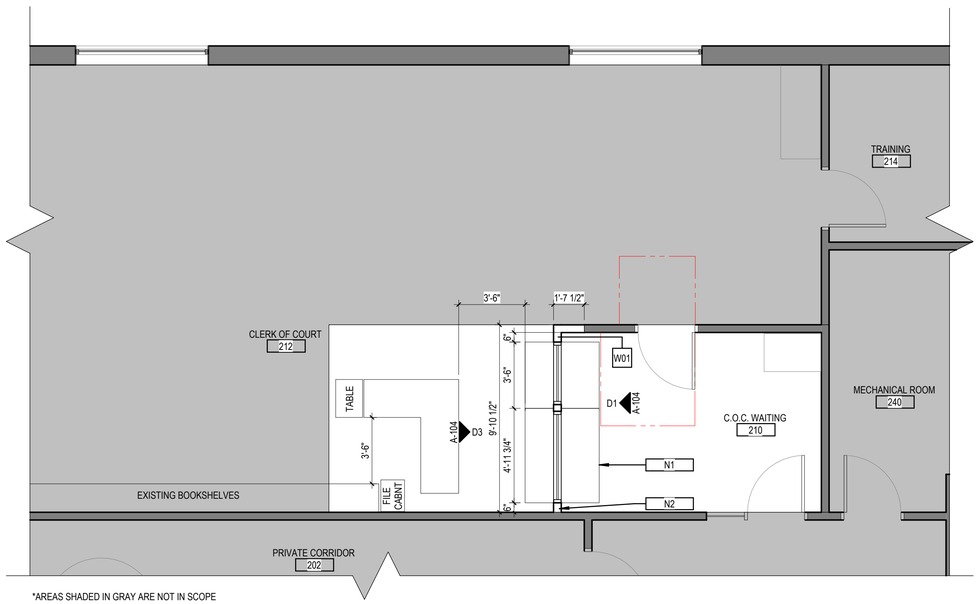
**D4** A-102 — **SERVER ROOM FLOOR PLAN - LEVEL 2**
1/4" = 1'-0"




*AREAS SHADED IN GRAY ARE NOT IN SCOPE

PROJECT NORTH

**B1** A-102 — **PARTIAL DEMOLITION FLOOR PLAN - LEVEL 2**
1/4" = 1'-0"




*AREAS SHADED IN GRAY ARE NOT IN SCOPE

PROJECT NORTH

**B4** A-102 — **PARTIAL NEW FLOOR PLAN - LEVEL 2**
1/4" = 1'-0"

## PLANS LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE DEMOLISHED
- NEW PARTITION
- EXISTING CEILING TO BE REMOVED, SEE KEYNOTES
- PATCHED AND REPAIRED CEILING TO RECIEVE NEW LIGHT FIXTURE, SEE KEYNOTES AND ELECTRICAL
- EXISTING FIRE ALARM
- EXISTING SECURITY CAMERA
- EXISTING FIRE SPRINKLER
- EXISTING LIGHT FIXTURE
- NEW LIGHT FIXTURE, SEE ELECTRICAL

## GENERAL NOTES - DEMOLITION

1. FIELD VERIFY ALL DIMENSIONS AND EQUIPMENT LOCATIONS. NOTIFY ARCHITECT OF DISCREPANCIES BETWEEN THE DOCUMENTS AND FIELD CONDITIONS.
2. COORDINATE DEMOLITION WORK WITH NEW CONSTRUCTION.
3. REPAIR DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED. REPAIR SURFACES, WHICH ARE TO REMAIN BUT HAVE BECOME SOILED OR DAMAGED BY DEMOLITION WORK, TO NEW CONDITION, AT NO ADDITIONAL COST TO THE OWNER.
4. DEMOLISH EXISTING FLOOR FINISH MATERIALS WHERE NEW FINISHES ARE INDICATED IN FINISH SCHEDULE.
5. ALL EXISTING SURFACES AND EQUIPMENT TO REMAIN IN THE SCOPE OF WORK AREA SHALL BE PROTECTED DURING CONSTRUCTION.
6. MAINTAIN POWER & UTILITIES AT ALL TIMES DURING WORK.
7. AT WALLS NOTED FOR REMOVAL; REMOVE ALL WALL MOUNTED EQUIPMENT, PIPING, AND WIRING. PIPING AND WIRING TO BE REMOVED BACK TO SOURCE.

## GENERAL NOTES - CONSTRUCTION

1. DIMENSIONS TO NEW PARTITIONS ARE FACE OF STUD AND FACE OF FINISH TO EXISTING PARTITIONS. "CLR" REFERS TO FACE OF FINISH EACH SIDE, UNLESS NOTED OTHERWISE.
2. SEE A-102 FOR PARTITION ASSEMBLIY AND HEIGHT DESIGNATIONS.
3. SEE A-103 FOR DOOR SCHEDULE AND TYPE LEGEND.
   PATCH FLOOR SUBSTRATE WITH LEVELING COMPOUND WHEREVER DEMOLITION RENDERS SUBSTRATE UNEVEN.
4. PATCH AND REPAIR AREAS AFFECTED BY DEMOLITION WORK TO BE INTEGRATED IN CONSTRUCTION, APPEARANCE, AND FINISH TO ADJACENT SURFACES.
5. SEE ELECTRICAL DRAWINGS FOR FIXTURE TYPE AND OTHER ELECTRICAL INFORMATION.

## KEYNOTES - DEMOLITION D#

| KEY VALUE | KEYNOTE TEXT |
|---|---|
| D1 | DEMOLISH EXISTING CARPET FLOORING IN C.O.C. WAITING AS REQUIRED TO INSTALL NEW WALL AND NEW CARPET. PATCH AND REPAIR SURROUNDING AREAS AS REQUIRED. SEE FINISH PLAN ON SHEET A-102 FOR NEW CARPET LOCATION AND DETAILS. |
| D2 | DEMOLISH EXISTING HALF-WALL, PATCH AND REPAIR SURROUNDING AREAS AS REQUIRED TO INSTALL NEW WALL. SEE NEW WORK PLANS FOR NEW WORK. DEMOLISH EXISTING 24x48 ACT CEILING AS REQUIRED TO INSTALL NEW WALL AND NEW 2x2 ACT CEILING. PATCH AND REPAIR SURROUNDING AREAS AS REQUIRED. |
| D3 | DEMOLISH EXISTING CASEWORK. |
| D4 | EXISTING SECURITY CAMERA TO BE RELOCATED PER CLIENT DIRECTION. |
| D5 | DEMOLISH EXISTING SPRINKLER HEAD AND ASSOCIATED BRANCH PIPING TO MAIN. CAP AND SEAL AS REQUIRED. |
| D6 | EXISTING LIGHT FIXTURES TO REMAIN. |
| D7 | DEMOLISH EXISTING CEILING AS NECESSARY TO PERFORM NEW WORK. |
| D8 | DEMOLISH EXISTING TRANSFER AIR VENT, PATCH AND REPAIR WALL AS REQUIRED TO MATCH WALL ASSEMBLY. ENSURE SEAMLESS INTEGRATION WITH EXISTING CONSTRUCTION. VERIFY ALL CONDITIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION. |
| D9 | EXISTING DESK, FILE CABINET AND SIDE TABLE TO BE RELOCATED PER NEW FLOOR PLAN. |
| D10 | REMOVE EXISTING PARTITION, COORDINATE WITH OWNER FOR STORAGE OR REUSE. |
| D11 | REMOVE EXISTING LIGHT FIXTURES AND CEILING AS REQUIRED FOR MECHANICAL UPGRADES. STORE FIXTURES AND CEILING SYSTEM SAFELY FOR REINSTALLATION. REINSTALL CEILING AND LIGHT FIXTURES TO MATCH EXISTING CONDITIONS UPON COMPLETION OF MECHANICAL WORK. |
| D12 | DEMOLISH EXTERIOR WALL AS REQUIRED FOR INSTALLATION OF DUCTWORK AND ARCTIC HOODS. SEE DETAIL A4/A-104. |

## KEYNOTES - NEW CONSTRUCTION N#

| KEY VALUE | KEYNOTE TEXT |
|---|---|
| N1 | NEW CARPET TILE FLOOR FINISH AND RUBBER WALL BASE IN AREAS DISTURBED - SEE FINISH DETAILS SHEET A-102. |
| N2 | PAINT WALLS TO MATCH EXISTING ADJACENT. |
| N3 | PATCH AND REPAIR EXISTING ACT CEILING TILE AS REQUIRED FOR NEW WALL INSTALLATION - SEE ELECTRICAL FOR ADDITIONAL INFORMATION. |
| N4 | COORDINATE NEW LOCATION OF SECURITY CAMERA WITH SECURITY TEAM FOR COVEREAGE OF NEW COUNTER AREA. |
| N5 | PROVIDE AND INSTALL NEW SPRINKLER HEAD TO MATCH EXISTING. SPRINKLER SHALL BE INSTALLED PER NFPA 13 LIGHT HAZARD AND LOCAL JURISDICTION REQUIREMENTS. EXTEND AND CONNECT TO EXISTING BRANCH MAIN PIPING. |

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|---|---|---|---|
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Permit/Seal

STATE OF ALASKA 49 TH
Erik J. Dukes
No. 107233
REGISTERED PROFESSIONAL ARCHITECT

ALASKA COURT SYSTEM

BARROW COURTHOUSE
CLERK COUNTER
REMODEL PERMIT
DOCUMENTS
1250 AGVIK STREET
UTQIAGVIK AK 99723

Project No.:2014341790

Title
DEMOLITION AND NEW FLOOR PLANS

Scale: As indicated
Revision: 1
Drawing No. **A-102**

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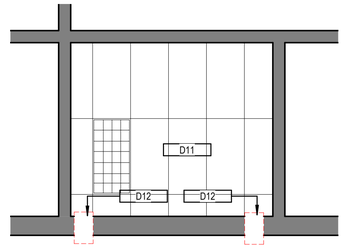
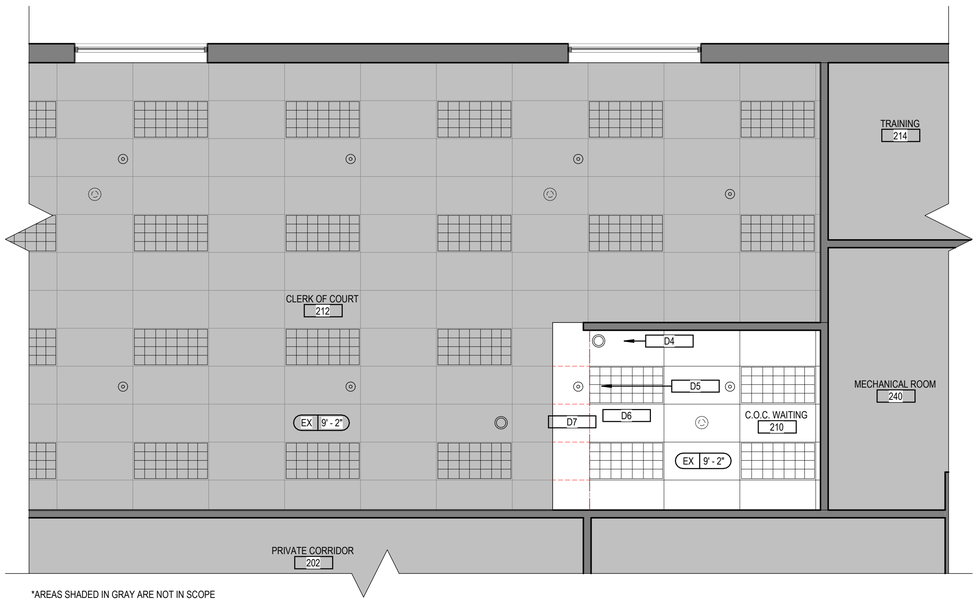



D4
A-103

## SERVER ROOM REFLECTED CEILING PLAN - LEVEL 2

1/4" = 1'-0"

PROJECT NORTH



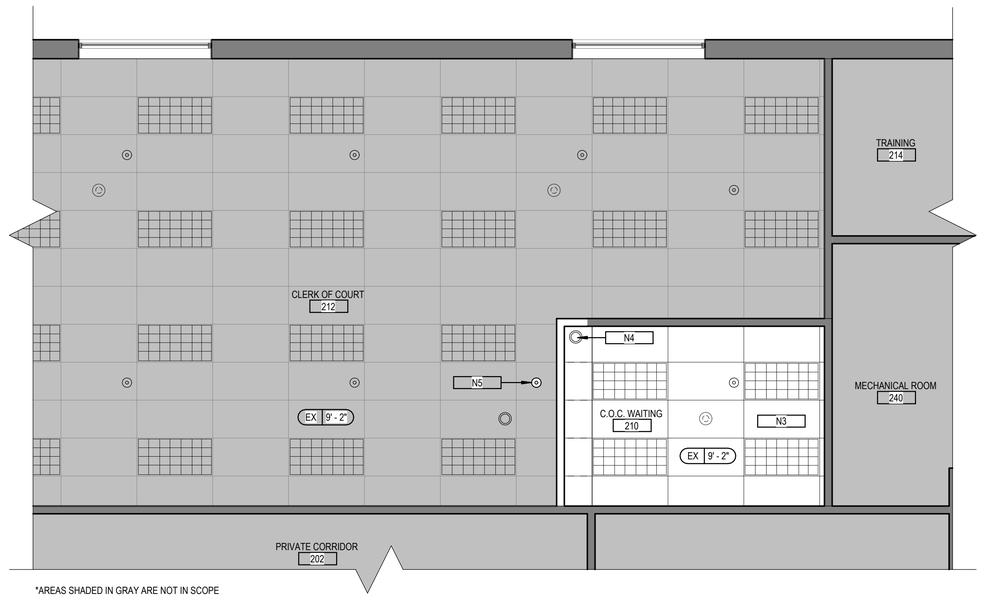

*AREAS SHADED IN GRAY ARE NOT IN SCOPE

B1
A-103

## PARTIAL DEMOLITION CEILING PLAN - LEVEL 2

1/4" = 1'-0"

PROJECT NORTH




*AREAS SHADED IN GRAY ARE NOT IN SCOPE

B4
A-103

## PARTIAL NEW CEILING PLAN - LEVEL 2

1/4" = 1'-0"

PROJECT NORTH

## PLANS LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE DEMOLISHED
- NEW PARTITION
- EXISTING CEILING TO BE REMOVED, SEE KEYNOTES
- PATCHED AND REPAIRED CEILING TO RECIEVE NEW LIGHT FIXTURE, SEE KEYNOTES AND ELECTRICAL
- EXISTING FIRE ALARM
- EXISTING SECURITY CAMERA
- EXISTING FIRE SPRINKLER
- EXISTING LIGHT FIXTURE
- NEW LIGHT FIXTURE, SEE ELECTRICAL

## GENERAL NOTES - DEMOLITION

1. FIELD VERIFY ALL DIMENSIONS AND EQUIPMENT LOCATIONS. NOTIFY ARCHITECT OF DISCREPANCIES BETWEEN THE DOCUMENTS AND FIELD CONDITIONS.
2. COORDINATE DEMOLITION WORK WITH NEW CONSTRUCTION.
3. REPAIR DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED. REPAIR SURFACES, WHICH ARE TO REMAIN BUT HAVE BECOME SOILED OR DAMAGED BY DEMOLITION WORK, TO NEW CONDITION, AT NO ADDITIONAL COST TO THE OWNER.
4. DEMOLISH EXISTING FLOOR FINISH MATERIALS WHERE NEW FINISHES ARE INDICATED IN FINISH SCHEDULE.
5. ALL EXISTING SURFACES AND EQUIPMENT TO REMAIN IN THE SCOPE OF WORK AREA SHALL BE PROTECTED DURING CONSTRUCTION.
6. MAINTAIN POWER & UTILITIES AT ALL TIMES DURING WORK.
7. AT WALLS NOTED FOR REMOVAL; REMOVE ALL WALL MOUNTED EQUIPMENT, PIPING, AND WIRING. PIPING AND WIRING TO BE REMOVED BACK TO SOURCE.

## GENERAL NOTES - CONSTRUCTION

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2. SEE A-102 FOR PARTITION ASSEMBLIY AND HEIGHT DESIGNATIONS.
3. SEE A-103 FOR DOOR SCHEDULE AND TYPE LEGEND.
   PATCH FLOOR SUBSTRATE WITH LEVELING COMPOUND WHEREVER DEMOLITION RENDERS SUBSTRATE UNEVEN.
4. PATCH AND REPAIR AREAS AFFECTED BY DEMOLITION WORK TO BE INTEGRATED IN CONSTRUCTION, APPEARANCE, AND FINISH TO ADJACENT SURFACES.
5. SEE ELECTRICAL DRAWINGS FOR FIXTURE TYPE AND OTHER ELECTRICAL INFORMATION.

## KEYNOTES - DEMOLITION

D#

| KEY VALUE | KEYNOTE TEXT |
|---|---|
| D1 | DEMOLISH EXISTING CARPET FLOORING IN C.O.C. WAITING AS REQUIRED TO INSTALL NEW WALL AND NEW CARPET. PATCH AND REPAIR SURROUNDING AREAS AS REQUIRED. SEE FINISH PLAN ON SHEET A-102 FOR NEW CARPET LOCATION AND DETAILS. |
| D2 | DEMOLISH EXISTING HALF-WALL. PATCH AND REPAIR SURROUNDING AREAS AS REQUIRED TO INSTALL NEW WALL. SEE NEW WORK PLANS FOR NEW WORK. DEMOLISH EXISTING 24x48 ACT CEILING AS REQUIRED TO INSTALL NEW WALL AND NEW 2x2 ACT CEILING. PATCH AND REPAIR SURROUNDING AREAS AS REQUIRED. |
| D3 | DEMOLISH EXISTING CASEWORK. |
| D4 | EXISTING SECURITY CAMERA TO BE RELOCATED PER CLIENT DIRECTION. |
| D5 | DEMOLISH EXISTING SPRINKLER HEAD AND ASSOCIATED BRANCH PIPING TO MAIN. CAP AND SEAL AS REQUIRED. |
| D6 | EXISTING LIGHT FIXTURES TO REMAIN. |
| D7 | DEMOLISH EXISTING CEILING AS NECESSARY TO PERFORM NEW WORK. |
| D8 | DEMOLISH EXISTING TRANSFER AIR VENT, PATCH AND REPAIR WALL AS REQUIRED TO MATCH WALL ASSEMBLY. ENSURE SEAMLESS INTEGRATION WITH EXISTING CONSTRUCTION. VERIFY ALL CONDITIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION. |
| D9 | EXISTING DESK, FILE CABINET AND SIDE TABLE TO BE RELOCATED PER NEW FLOOR PLAN. |
| D10 | REMOVE EXISTING PARTITION, COORDINATE WITH OWNER FOR STORAGE OR REUSE. |
| D11 | REMOVE EXISTING LIGHT FIXTURES AND CEILING AS REQUIRED FOR MECHANICAL UPGRADES. STORE FIXTURES AND CEILING SYSTEM SAFELY FOR REINSTALLATION. REINSTALL CEILING AND LIGHT FIXTURES TO MATCH EXISTING CONDITIONS UPON COMPLETION OF MECHANICAL WORK. |
| D12 | DEMOLISH EXTERIOR WALL AS REQUIRED FOR INSTALLATION OF DUCTWORK AND ARCTIC HOODS. SEE DETAIL A4/A-104. |

## KEYNOTES - NEW CONSTRUCTION

N#

| KEY VALUE | KEYNOTE TEXT |
|---|---|
| N1 | NEW CARPET TILE FLOOR FINISH AND RUBBER WALL BASE IN AREAS DISTURBED - SEE FINISH DETAILS SHEET A-102. |
| N2 | PAINT WALLS TO MATCH EXISTING ADJACENT. |
| N3 | PATCH AND REPAIR EXISTING ACT CEILING TILE AS REQUIRED FOR NEW WALL INSTALLATION - SEE ELECTRICAL FOR ADDITIONAL INFORMATION. |
| N4 | COORDINATE NEW LOCATION OF SECURITY CAMERA WITH SECURITY TEAM FOR COVEREAGE OF NEW COUNTER AREA. |
| N5 | PROVIDE AND INSTALL NEW SPRINKLER HEAD TO MATCH EXISTING. SPRINKLER SHALL BE INSTALLED PER NFPA 13 LIGHT HAZARD AND LOCAL JURISDICTION REQUIREMENTS. EXTEND AND CONNECT TO EXISTING BRANCH MAIN PIPING. |

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Erik J. Dukes
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ALASKA COURT SYSTEM

BARROW COURTHOUSE
CLERK COUNTER
REMODEL PERMIT
DOCUMENTS
1250 AGVIK STREET
UTQIAGVIK AK 99723

Project No.:2014341790

Title
DEMOLITION AND NEW REFLECTED CEILING PLANS

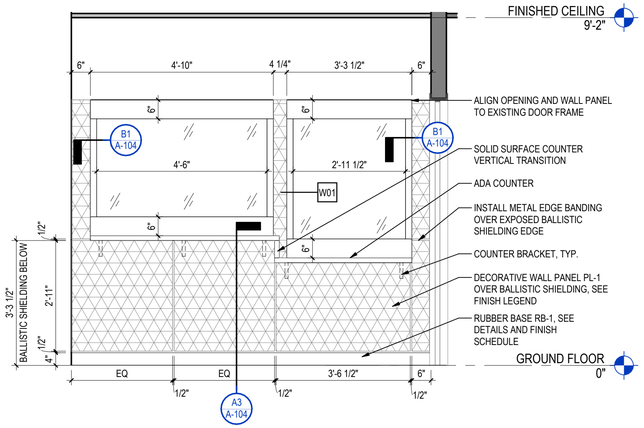
Scale: As indicated

Revision: 1

Drawing No. A-103

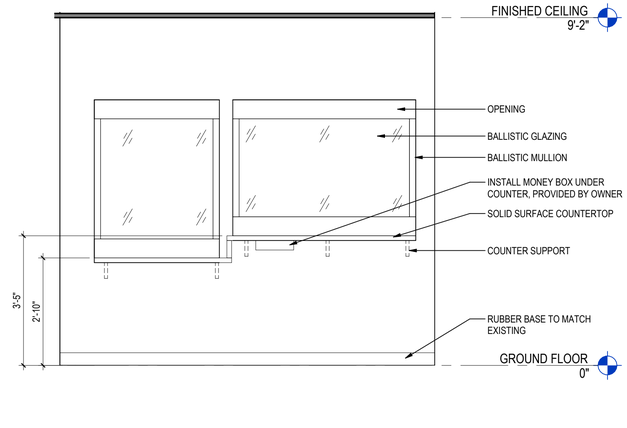
<Pick location in Project Information>
4/24/2025 2:07:49 PM

ORIGINAL SHEET - ANSI D



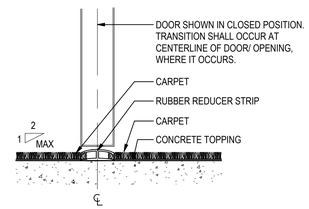

## D1 CLERK COUNTER ELEVATION

D1 / A-104 — 1/2" = 1'-0"



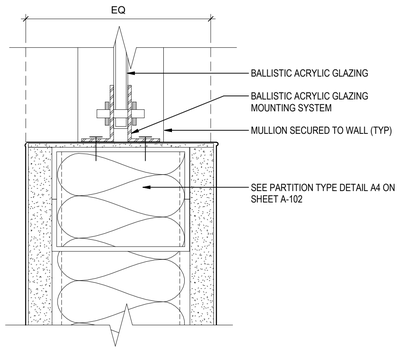

## D3 CLERK OF COURT COUNTER ELEVATION

D3 / A-104 — 1/2" = 1'-0"



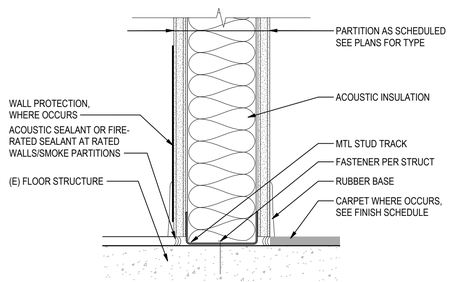

## D4 FLOOR TRANSITION

D4 / A-104 — 3" = 1'-0"



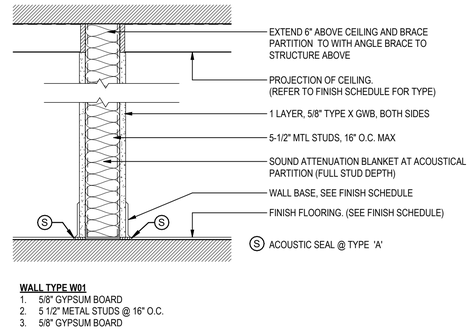

## B1 INT. SERVICE WINDOW JAMB

B1 / A-104 — 6" = 1'-0"




## B3 TYP. WALL BASE

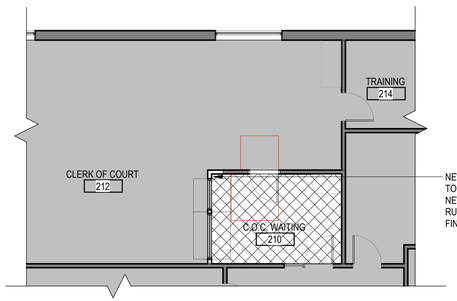
B3 / A-104 — 3" = 1'-0"




**WALL TYPE W01**
1. 5/8" GYPSUM BOARD
2. 5 1/2" METAL STUDS @ 16" O.C.
3. 5/8" GYPSUM BOARD

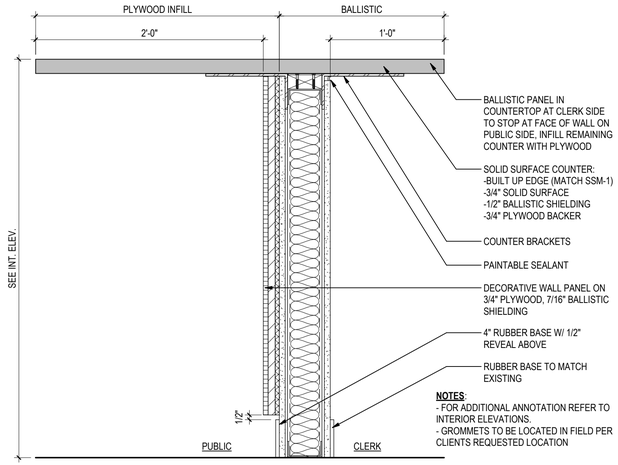
## B4 PARTITION TYPE

B4 / A-104 — 1 1/2" = 1'-0"



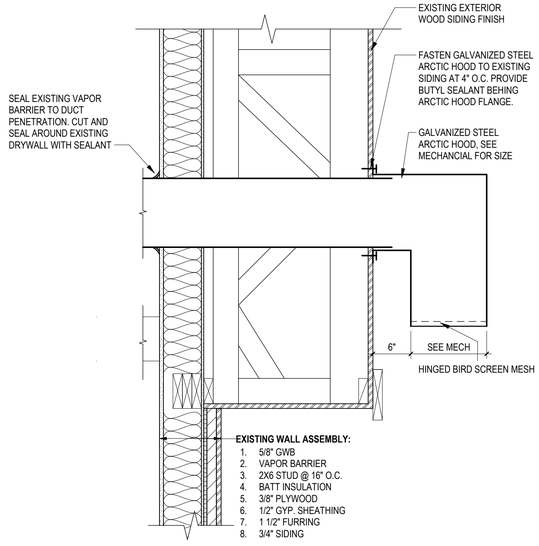

## A1 PARTIAL NEW FLINISH PLAN - LEVEL 2

A1 / A-104 — 1/8" = 1'-0"




## A3 CLERK COUNTER SECTION

A3 / A-104 — 1 1/2" = 1'-0"




**EXISTING WALL ASSEMBLY:**
1. 5/8" GWB
2. VAPOR BARRIER
3. 2X6 STUD @ 16" O.C.
4. BATT INSULATION
5. 3/8" PLYWOOD
6. 1/2" GYP. SHEATHING
7. 1 1/2" FURRING
8. 3/4" SIDING

## A4 EXTERIOR ARCTIC HOOD/LOUVER

A4 / A-104 — 1" = 1'-0"

| FINISH SCHEDULE | | | | | |
|---|---|---|---|---|---|
| ROOM # | ROOM NAME | FLOOR FINISH | BASE FINISH | CEILING FINISH | COMMENTS |
| 210 | C.O.C. WAITING | CPT-1 | RB-1 | EXISTING | SEE RCP NOTES ON SHEET A-103 |
| 212 | CLERK OF COURT | MATCH EXISTING | MATCH EXISTING | MATCH EXISTING | PATCH AND REPAIR EXISTING FINISHES AS NECESSARY FOR INSTALLATION OF NEW WALL, FLOOR, AND CEILING. |

# GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING.
2. ALL FINISHES TO BE INSTALLED PER MANUFACTURERS' SPECIFICATIONS.
3. SEE SHEET SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. SEE FLOOR PLANS AND INT. ELEVATIONS FOR FINISH LOCATIONS AND EXTENTS, AND ADDITIONAL INFORMATION NOT INCLUDED IN SCHEDULE, INCLUDING BUT NOT LIMITED TO DIMENSIONS AND FINISH INFORMATION.
5. SEE INTERIOR DETAIL SHEETS FOR MISC. DETAILS.
6. CAMERAS ARE NOT IN A/E SCOPE OF WORK. CONTRACTOR TO COORDINATE CAMERA LOCATIONS AND INSTALLATION WITH OWNER PRIOR TO INSTALLATION.

# FINISH NOTES

GENERAL
1. SEE FLOOR PLANS, AND INTERIOR ELEVATIONS FOR ADDITIONAL FINISH LOCATIONS NOT NOTED IN ROOM FINISH SCHEDULE.
2. ALL INTERIOR FINISHES TO MEET REQUIREMENTS OF IBC CHAPTER 8.

CEILINGS AND CEILING FINISHES
1. REFER TO SHEET A-103 FOR CEILING INFORMATION.

PARTITIONS
1. REFER TO PLANS AND PARTITION TYPES FOR FIRE-RATED AND SMOKE- RATED BARRIERS AND PARTITIONS.

WALL FINISH
1. FINISH LEVELS OF GYPSUM BOARD PANELS:
   A. LEVEL 4: PANEL SURFACES EXPOSED TO VIEW UNO.
2. ALL INTERIOR PARTITIONS AND WALLS IN SCOPE OF WORK AREA ARE TO BE PAINTED UNO.
3. FINAL COAT OF PAINT TO BE EXECUTED UNDER FINAL LIGHTING CONDITIONS.
4. SCHEDULED WALL FINISHES TO BE APPLIED ON ALL SURFACES, INCLUDING WALL RETURNS AT WINDOW AND DOOR LOCATIONS UNO.
5. WALL ACCENT DESIGNATIONS INDICATED ON PLAN ARE IN ADDITION TO GENERAL WALL FINISHES INDICATED IN FINISH SCHEDULE.
6. CAULK AROUND ALL DOOR FRAMES, WHERE FRAME ABUTS TO FACE OF GWB. CAULK FRAMES PRIOR TO LAST COAT OF PAINT APPLIED TO PARTITIONS AND FRAMES.
7. ALL ACCESS DOORS AND WALL PANELS TO BE PAINTED TO MATCH SCHEDULED WALL FINISH. UNO.

FLOORING & WALL BASE
1. CAULK ALL GAPS BETWEEN WALL BASE AND DOOR FRAMES. SEALANT TO MATCH FRAME FINISH.
2. DO NOT TERMINATE WALL BASE AT OUTSIDE CORNER, UNO.
3. PATCH AND REPAIR (E) CARPET AT AREAS AFFECTED BY SCOPE OF WORK. COORDINATE WITH OWNER FOR CARPET TILE ATTIC STOCK AVAILABILITY.
4. PRIOR TO FLOORING INSTALLATION, VERIFY THAT SLAB MEETS FLATNESS AND LEVELNESS REQUIREMENTS. PROVIDE SELF-LEVELING UNDERLAYMENT COMPOUND AS REQUIRED TO MEET FLOOR FINISH REQUIREMENTS.
5. FLOOR TRANSITION TO ABUT AT CENTER OF DOOR IN CLOSED POSITION.

# FINISH LEGEND

CPT-1: TILE CARPETING
MFR: SHAW CONTRACT
NAME: DIFFUSE STRATAWORX
STYLE NUMBER: 57419
COLLECTION: DIFFUSE + DISPERSE
COLOR: PASSPORT 75597
INSTALL: QUARTER TURN

PT-1: PAINT - MAIN
MFR: MATCH EXISTING
COLOR: MATCH EXISTING

PL-1: PLASTIC LAMINATE
MFR: INPRO
TYPE: WALL PANEL
NAME: ASPEX PATTERNS
PATTERN: LINEA
COLORWAY: 2401
LOCATION: CLERK COUNTER WALL

RB-1: RUBBER BASE
MFR: JOHNSONITE WALL BASE
TYPE: TRADITIONAL VINYL 1/8"
COLOR: 121 CEMENT
SIZE: 4"

SSM-1: SOLID SURFACE
MFR: WILSONART
COLOR: ARCTIC DUNE 9253CM
FINISH: SATIN
LOCATION: CLERK COUNTERS

# WINDOW & FRAME NOTES

1. NEW UNRATED GLAZING TO BE 1/4" TEMPERED SAFETY GLAZING, UNO.
2. GLAZING AND FRAMES IN RATED PARTITIONS ARE TO BE RATED.
3. COORDINATE WITH CLIENT FOR FINAL LOCATIONS OF WINDOW SHADE / WINDOW BLINDS TO TEMPORARILY OBSTRUCT VIEWS.
4. CLERK SERVICE WINDOWS TO BE 3/4" ACRYLIUC, UNO.

# ABBREVIATIONS

| | | | |
|---|---|---|---|
| ACT | ACOUSTICAL CEILING TILE | MTL | METAL |
| AL | ALUMINUM | NO | NUMBER |
| CFCI | COORDINATE WITH OWNER CONTRACTOR FURNISHED CONTRACTOR INSTALLED | OFCI | OWNER FURNISHED CONTRACTOR INSTALLED |
| CFOI | CONTRACTOR FURNISHED OWNER INSTALLED | OFOI | OWNER FURNISHED OWNER INSTALLED |
| CG | CORNER GUARD | PL | PLASTIC LAMINATE |
| CLR | CLEAR | PT | PAINT |
| CPT | CARPET | RB | RESILIENT OR RUBBER WALL BASE |
| CR | CARD READER | RF | RESILIENT FLOORING |
| DBL | DOUBLE | RWS | ROLLER WINDOW SHADES |
| ELEC | ELECTRIC | S | SMOKE |
| EX | EXISTING | S+FR | SMOKE + FIRE RATED |
| EXP | EXPOSED | SS | STAINLESS STEEL |
| FAC | FACTORY FINISH | SSM | SOLID SURFACE MATERIAL |
| FBR | FABRIC | ST | STOREFRONT (ALUMINUM) |
| FF | FINISH FLOOR | TG | TEMPERED GLAZING |
| FOF | FACE OF FINISH | UNO | UNLESS NOTED OTHERWISE |
| FR | FIRE RATED | VIF | VERIFY IN FIELD |
| GL | GLAZING | WB | WINDOW BLINDS |
| GWB | GYPSUM WALL BOARD | WC | WALL COVERING |
| HM | HOLLOW METAL | WD | WOOD |
| INT | INTERIOR | WM | WALK OFF MAT |
| KD | KNOCK DOWN | WP | WALL PANEL / PROTECTION |
| | | WS | WINDOW SHADES |
| | | WT | WINDOW TREATMENT |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| Issued/Revision | By | Appd | YYYY.MM.DD |
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| 1 10% PERMIT DOCUMENTS | SA | EJD | 04/24/2025 |

Permit/Seal

STATE OF ALASKA 49 TH
Erik J. Dukes
No. 107233
REGISTERED PROFESSIONAL ARCHITECT

ALASKA COURT SYSTEM

BARROW COURTHOUSE
CLERK COUNTER
REMODEL PERMIT
DOCUMENTS
1250 AGVIK STREET
UTQIAGVIK AK 99723

Project No.:2014341790

Title
ELEVATIONS, DETAILS, AND FINISH SCHEDULE

Scale: As indicated
Revision: 1
Drawing No. **A-104**


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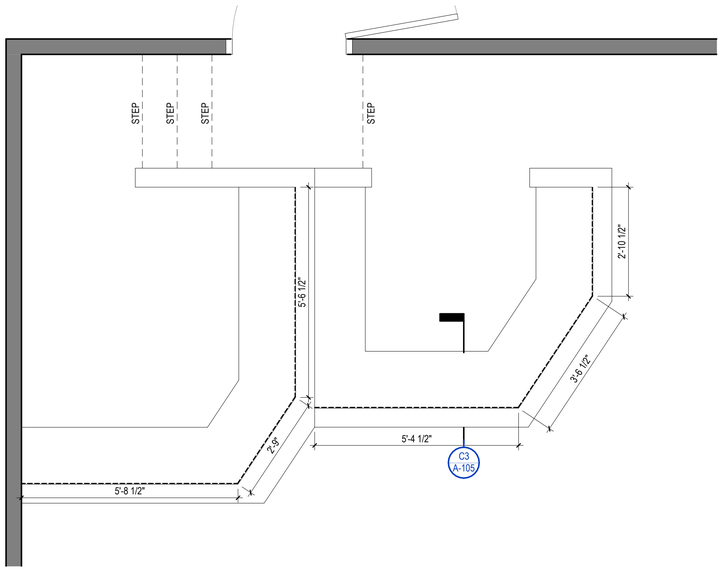
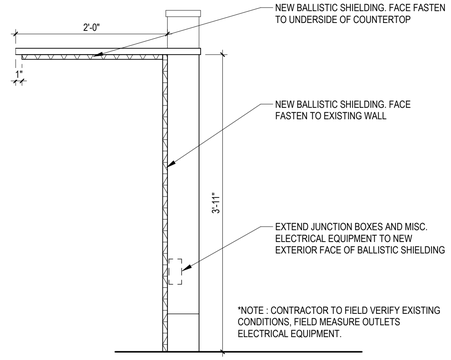
ORIGINAL SHEET - ANSI D



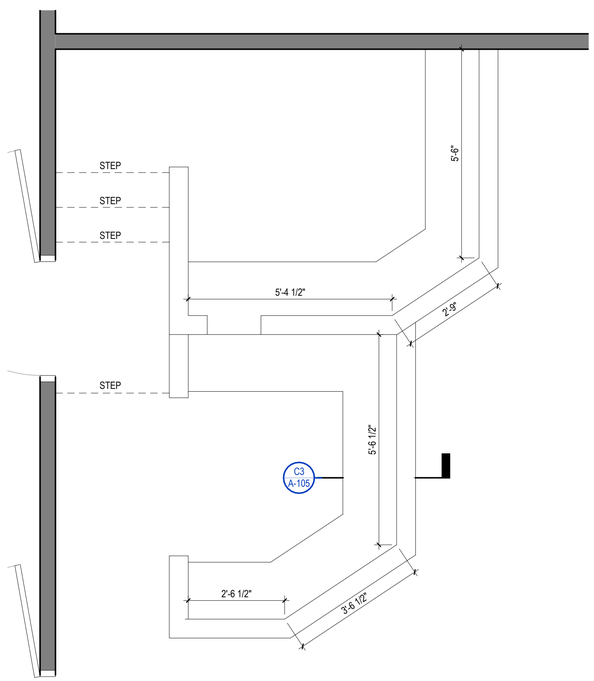

## C1 A-105 ENLARGED PLAN - SUPERIOR COURT 201 JUDGE/CLERK BENCH

1/2" = 1'-0"




## C3 A-105 JUDGE BENCH SECTION

1" = 1'-0"

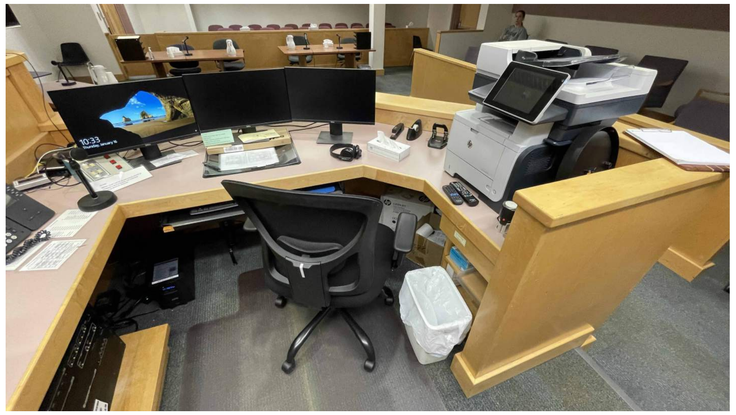


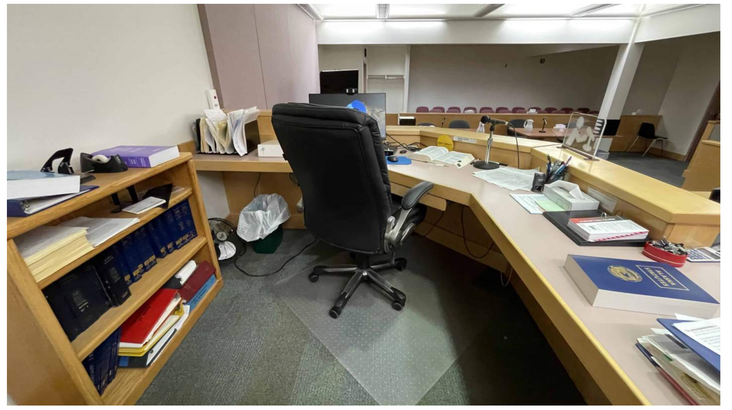

## A1 A-105 ENLARGED PLAN - DISTRICT COURT 209 JUDGE/CLERK BENCH

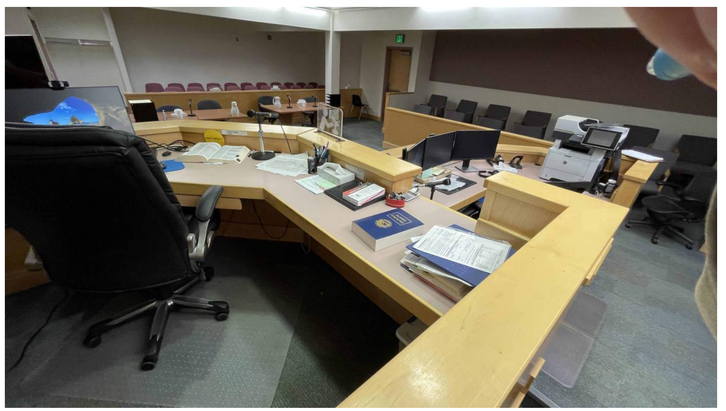
1/2" = 1'-0"

## GENERAL NOTES

THE PROVIDED IMAGES ILLUSTRATE THE EXISTING JUDGES ' BENCHES AND THE EQUIPMENT STORED THERE; NO BALLISTIC SHIELDING IS CURRENTLY INSTALLED. BALLISTIC PROTECTION PANELS ARE TO BE ADDED BEHIND THE JUDGES ' BENCHES IN BOTH COURTROOMS. PANELS SHALL BE DESIGNED AND FABRICATED TO MEET [XXX] AND INSTALLED WITH SECURE ANCHORAGE TO THE EXISTING BENCH STRUCTURE AND SUPPORTING FRAMEWORK. ENLARGED PLANS ARE FOR REFERENCE, CONTRACTOR MUST VERIFY IN FIELD DIMENSIONS AND COORDINATE WITH BENCH MANUFACTURERS WHAT IS REQUIRED TO ENSURE SEAMLESS INTEGRATION, PROPER ALIGNMENT, AND COMPLIANCE WITH LOCAL CODES.







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| 1 | 100% PERMIT DOCUMENTS | SA | EJD | 04/24/2025 |

Permit/Seal

STATE OF ALASKA 49 TH
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1250 AGVIK STREET
UTQIAGVIK AK 99723

Project No.:20143417790

Title
COURT BENCHES
ENLARGED PLANS
AND DETAILS

Scale: As indicated

Revision: 1

Drawing No. A-105

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ORIGINAL SHEET - ANSI D

# PROJECT SPECIFICATIONS

**DIVISION 02 - EXISTING CONDITIONS**
024100 Selective Demolition

**DIVISION 06 – WOOD AND PLASTICS**
061000 Rough Carpentry
064023 Interior Architectural Woodwork

**DIVISION 07 - THERMAL PROTECTION**
078100 Applied Fireproofing
078410 Penetration Firestopping
079200 Joint Sealants

**DIVISION 08 - OPENINGS**
088100 Interior Glazing

**DIVISION 09 - FINISHES**
092110 Gypsum Board Assemblies
095100 Acoustical Ceilings
095220 Acoustical Wall Panel Systems
096005 Requirements for Sub-Floor
096510 Resilient Flooring
096513 Resilient Base
096800 Carpeting Broadloom & Tile
099000 Painting and Coating

## 024100 SELECTIVE DEMOLITION

**Summary:**
1. Provide selective demolition of interior partitions, systems, ceilings and components designated to be removed.
2. Protect portions of building, site and adjacent structures affected by demolition operations.
3. Remove and properly terminate abandoned utilities, conduits and wiring systems, including those above ceilings.
4. Provide temporary protection for the public from demolition operations.
5. Provide pollution control during demolition operations.
6. Provide removal and legal disposal of materials.
7. Notify Building Owner in writing of schedule of shut off of utilities which serve occupied spaces.
8. Notify Building Owner in writing if hazardous materials are encountered or suspected and stop work in that area until determination is made.
9. Coordinate items to be salvaged for Reinstallation or Packaged and Delivered to Owner's Storage Area.
10. Remove items of salvageable value to the contractor from the project area as work progresses. Transport salvaged items from the site as they are removed. Do not store salvaged items on site.
11. Patch and repair items affected by scope of work to match existing conditions.

**Submittals:**
1. Submit demolition schedule. Include methods for protecting adjacent work and location of temporary partitions if applicable. Provide in-situ samples for coordination with new work (flooring demolition and prep).
2. Submit proposed location for legal disposal of materials, and permit if applicable.

**Demolition:**
1. Survey existing conditions and coordinate with Architectural Drawings and specifications to verify extent of demolition required. Provide videotape of existing conditions if clarification of existing damage may be construed as damage done by construction operations.
2. Verify conditions at site to determine whether demolition methods proposed for use will not endanger existing structures by overloading, failure, or unplanned collapse.
3. Perform demolition operations by methods which do not endanger adjacent spaces, structures, or the public.
4. Perform demolition operations to prevent dust and pollutant hazards. Provide chutes as required to control dust and debris.

## 061000 ROUGH CARPENTRY

**Summary:**
1. Rough carpentry for grounds, nailers and blocking.
2. Framing dimensional lumber

**Submittals:**
1. Material Certificates: For dimension lumber specified to comply with minimum allowable unit stresses. Indicate species and grade selected for each use and design values approved by the ALSC Board of Review.

**Products:**
1. Fire Retardant Treatment for All Interior Concealed Carpentry: AWPA C20 for lumber and AWPA C27 for plywood; noncorrosive type.
2. Moisture Content: 15 percent for 2-inch nominal thickness or less; 19 percent for more than 2-inch nominal thickness 5.
3. Anchors and Fasteners: Non corrosive, suitable for load and exposure.

**Installation:**
1. Framing Standard: Comply with AF&PA's WCD 1, "Details for Conventional Wood Frame Construction".
2. Framing and fastening to comply with ICC, IBC Section 23 Wood.

## 064023 INTERIOR ARCHITECTURAL MILLWORK

**Summary:**
1. Provide Interior Architectural Woodwork: Refer to Drawings for all items; provide miscellaneous metal supports for framing.
2. Manufacturing, storage, and install shall comply with AWI Standards.

**Submittals:**
**1.** Submit product data, shop drawings, and samples, each type.

**Products:** Refer to Drawings for applicable items.
1. AWI Standards: Architectural Woodwork Standards.
2. Interior Plastic Laminate Clad Casework:
   A. Laminate/Finish: High pressure decorative laminate NEMA LD 3. Refer to Finish Plans and Legend.
   B. Grade: Premium.
3. Interior Plastic Laminate Clad Countertops:
   A. Laminate/Finish: High pressure decorative laminate NEMA LD 3. Refer to Finish Plans and Legend.
   B. Grade: Premium.
   C. Core: As allowed by grade.
   D. Edge: Refer to drawings.
4. Solid Surfacing Material Countertops and Trim:
   A. Type/Finish: Synthetic countertops. Refer to Finish Plans and Legend.
   B. Grade: Premium.
   C. Edge: Refer to drawings.
5. Counter brackets
   A. Hidden in-wall flush mount heavy duty aluminum brackets for floating counters
   B. Finish: Clear anodized
   C. Load capacity 300 lbs per bracket
   D. T profile 2"x2"
6. Ballistic Resistant Panel
   A. UL752 Level 3

## 079200 JOINT SEALANTS

**Summary**:
1. Nonsag gunnable sealant
2. Joint backings and accessories

**Submittals:**
1. Provide product data, standard finish chart for color selection, joint sealant schedule inclusive of joint sealant application, location, and designation.

**Products:**
1. Latex Joint Sealants:
   A. Acrylic Type: Acrylic emulsion, ASTM C 834.
   B. Application: Interior joints in vertical and overhead surfaces with limited movement.
2. Sanitary Silicone Elastomeric Joint Sealants:
   A. Type: One part mildew resistant silicone sealant, ASTM C 920.
   B. Application: Sanitary applications, interior use.
3. Fire Resistive Joint Sealers:
   A. Type: One part fire stopping sealant.
   B. Application: Penetrations in fire rated floor and wall assemblies.
4. Auxiliary Materials:
   A. Plastic foam joint fillers.
   B. Elastomeric tubing backer rods.
   C. Bond breaker tape.
5. Acoustical Sealants:
   A. Type: Latex-based sealing compounds, ASTM C834
   B. Application: For Exposed, color as selected by Architect from manufacturer's complete range of colors. For Concealed, color per manufacturer's standard.

**Installation:**
1. Comply with requirements of Section 011000.
2. Test sealant adhesion for each substrate required.
3. Install in proper relation with adjacent work.
4. Clean adjacent surfaces soiled with sealant immediately.

## 088100 INTERIOR GLAZING

**Summary:**
1. Provide glass and glazing for units not factory glazed.
   A. Interior Sidelites and windows: Safety glass, tempered or laminated, sized per code or GANA for thickness.

**Submittals:**
1. Glazing: Submit product data, shop drawings, warranty, maintenance data.
2. Privacy Film: Submit product data, samples, warranty, maintenance data.

**Products:**
1. Products: Refer to Drawings and comply with the following.
2. Glass:
   A. Primary Glass Products: Float, ASTM C 1036, clear in color UON in the drawings.
   B. Heat Treated Glass Products: Tempered glass, ASTM C 1048.
   C. Laminated Glass Units at counter: Polyvinyl butyral interlayer, tint clear, UL Level 3
3. Elastomeric glazing sealant:
   a. Provide clear sealant/caulking UON on the drawings.
   b. Accessories: Provide setting blocks, spacers, and compressible gaskets.
   c. Preformed glazing tape. Provide consistent even application with consistent good adhesion.

**Installation:**
1. Comply with requirements of Section 011000.
2. Comply with GANA Glazing Manual and manufacturer's recommendations.
3. Confirm tolerance of glazing installation at joints.
4. Apply glazing film applications per manufacturer's recommendations. Review seam locations with Architect before installation. Eliminate air bubbles and provide even application.

## 092110 GYPSUM BOARD ASSEMBLIES

**Summary:**
1. Provide Gypsum Board Assemblies as indicated on drawings:
   A. Interior walls, partitions, and ceilings for tape and joint compound finish.
   B. Remodeling gypsum drywall systems at areas of new construction.
   C. Gypsum board finishes.
   D. Sound attenuation insulation.
   E. Concealed acoustical and fire rated sealants.

**Submittals:**
1. Submit product data to include limiting height chart for each type and gage of metal framing.

**Products:**
1. Products: Refer to drawings and comply with the following.
2. Gypsum Wallboard: ASTM C 36, regular and fire rated types. Refer to drawings for thickness.
3. Trim Accessories:
   A. Material: Metal and plastic (plastic for J-Bead only).
   B. Types: Cornerbead, edge trim, edge reveals, and control joints.

1. Auxiliary Materials:
   A. Gypsum board screws, ASTM C 1002.
   B. Fastening adhesive.
   C. Concealed acoustical sealant, refer to Section 079200.
   D. Mineral fiber sound attenuation blankets, meet assembly requirements on drawings, coordinate size with framing spacing for tight friction fit.

**Installation:**
1. Comply with requirements of Section 01000.
2. Comply with standards referenced above and ASTM C 840, GA 216 and GA 214.
3. Install joints only over framing members. Do not allow butt to butt joints.
4. Provide blocking for items such as, but not limited to casework, furniture, elec equipment, artwork, signage, and similar items.
5. Provide acoustical sealant at runner tracks, wall perimeters, openings, expansion, and control joints per ASTM C919.
6. Install gypsum board assemblies true, plumb, level and in proper relation to adjacent surfaces.
7. Where new partitions meet existing construction, remove existing cornerbeads to provide smooth transition.
8. Provide Level 4 finish treatment, minimum, vertical surfaces, UON on Drawings.
   A. Sand and leave ready for finish painting and wall treatment.

## 096005 REQUIREMENTS FOR SUBFLOOR

**Summary:**
1. Provide flat & level subfloor at floor elevations indicated on the Drawings for new flooring, glazing, and doors. Meet subfloor flat & level tolerances per manufacturer's recommendations.
2. Perform testing: for relative humidity (RH) and alkalinity per manufacturer's recommendations at slab-on-grade and for direct glue-down applications.
3. Prepare subfloor to receive finish flooring per Manufacturer's instructions, recommendations, and restrictions for subfloor treatment materials based on RH and alkalinity test findings. Preparation of subfloor to include: grinding or scarifying slab, applying leveling compound to meet finish elevations, applying concrete slab primer.

**Submittals:**
1. Submit product data per manufacturer to include instructions, recommendations, and restrictions for subfloor treatment materials.

**Products:**
1. Subfloor Treatment: Materials manufactured, supplied, or approved by each finish floor manufacturer for trowel-able underlayments and patching compounds and which are allowable under finish flooring system warranty. Latex modified, moisture resistant, non-shrinking, Portland cement based material certified by manufacturer for "on grade" and "below grade" applications.
2. Concrete Slab Primer: Non-staining type.

**Installation:**
1. Clean subfloors to remove paint, GWB joint compound, grime, dust, debris and all foreign materials and to satisfy manufacturer's recommendations.
2. Perform testing for relative humidity per ASTM F 2170 with one test per every 2000 sf of finished flooring area and for each change in subfloor condition.
3. Perform testing for relative humidity per ASTM-1869-04 (Calcium Chloride) with one test per every 1000 sf of finished flooring area and for each change in subfloor condition.
4. Protect concrete slab from re-wetting from all sources.
5. Record subfloor joint and crack locations, sizes & conditions. Determine if joints and cracks are moving or stable. Seal moving joints & cracks per manufacturer's recommendations; fill non-moving stable joints and cracks with subfloor treatment material.

## 096513 RESILIENT BASE

**Summary:**
2. Rubber base, refer to Finish Schedule.

**Submittals:**
1. Submit product data, samples, and maintenance data.

**Products:**
1. Products: Refer to Finish Schedule for applicable items:
2. Rubber Wall Base: FS SS W 40, Type I, 0.125 inches thick, UON.
   A. Cove type with topset toe.
3. Auxiliary Materials:
   A. Adhesives: Water resistant type.

**Installation:**
1. Comply with requirements of Section 011000 - Project Requirements.
2. Apply wall base to walls, columns, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required.
3. Install wall base in lengths as long as practicable without gaps at seams and with tops of adjacent pieces aligned.
4. Tightly adhere wall base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.
5. Do not stretch wall base during installation.
6. Premolded Corners: Install premolded corners before installing straight pieces.

## 096800 CARPET TILE

**Summary:**
1. Provide tile carpet to match existing.
2. Provide floor preparation. Refer to SECTION 096005

**Standards**
1. ASRM D2859 Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials
2. CRI 104 Standard for Installation of Commercial Carpet
3. NFPA 253 Standard Method of Test for Critial Radian Flux of Floor Covering Systems Using a Radiant Heat Energy Source

**Submittals:**
1. Submit product data, samples, pattern diagrams, warranty, maintenance data, including auxiliary materials.

**Products:**
1. Carpet Material: Refer to Finish Schedule.
2. Carpet Installation Method to match existing.
3. Adhesives: Carpet manufacturer's pressure-sensitive odor free.

**Installation:**
1. Comply with requirements of Section 011000.
2. Tile: Install with tight seams.
3. Provide cutouts for floor outlets and similar penetrations.
4. Provide edge guards / thresholds at change of flooring materials.
5. Remove subfloor ridges and bumps. Fill inor or local low spots, cracks, joints, holes or other defects with subfloor filler.

## 099000 PAINTING AND COATING

**Summary:**
1. Provide painting and surface preparation for interior unfinished surfaces as scheduled.
2. Provide repainting and surface preparation at areas of remodeling.
3. Provide painting of entire surface where patch painting is required.
4. Factory finished items, except as noted.
--

**Submittals:**
1. Submit product data, samples consisting of two strike-downs of each color and each finish.
2. Extra stock consisting of 1 unopened gallon of each type of paint used at completion.

**Products:**
1. Products: Refer to Finish Schedule.
2. Requirements: No VOCs; 100% Acrylic.
3. First line commercial quality products for all coating systems.
4. Schedule:
   A. Gypsum board and plaster walls, eggshell finish, 1 coat primer and 2 coats finish.

**Installation:**
1. Comply with requirements of Section 011000 .
2. Test sample area for adhesion for each type of paint and surface.
3. Remove cover plates, T-stats, horn, strobes and pull-stations. Protect hardware and adjacent surfaces.
4. Apply paint to achieve manufacturer's recommended dry film thicknesses.
5. Paint entire surface where patch painting is required.
6. Recoat areas which show bleed through, ghosting, defects or flashing.
7. Clean paint spatter from adjacent surfaces and glass.
8. Touch up damaged surfaces at completion of construction.


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| No. | Issued/Revision | By | Appd | YYYY.MM.DD |
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| 1 | 100% PERMIT DOCUMENTS | SA | EJD | 04/24/2025 |

Permit/Seal

STATE OF ALASKA 49 TH
Erik J. Dukes
No. 107233
REGISTERED PROFESSIONAL ARCHITECT

ALASKA COURT SYSTEM

BARROW COURTHOUSE
CLERK COUNTER
REMODEL PERMIT
DOCUMENTS
1250 AGVIK STREET
UTQIAGVIK AK 99723

Project No.:2014341790

Title
SPECIFICATIONS

Scale: 1/4" = 1'-0"
Revision: **1**
Drawing No. **A-106**


<Plot location in Project Information>
4/24/2025 2:07:46 PM
ORIGINAL SHEET - ANSI D

# LEGEND OF SYMBOLS

(SOME SYMBOLS MAY NOT BE USED ON THIS PROJECT)

- EQUIPMENT MARK TYPE A, NUMBER 1 REFER TO SCHEDULES FOR EXPLANATION.
- SECTION INDICATOR (SECTION 1 ON DWG. A909)
- KEY NOTE INDICATOR (REFERS TO NOTES ON SAME SHEET)
- REVISION INDICATOR
- DIFFUSER/REGISTER/GRILLE MARK (SEE SCHEDULE SHEET)
- DENOTES CONNECT TO EXISTING
- DENOTES LIMIT OF DEMOLITION
- INSIDE DUCT DIMENSION (IN INCHES, ROUND DUCTWORK)
- INSIDE DUCT DIMENSION (IN INCHES, FIRST DIM. IS AS VIEWED)
- SUPPLY AIR (SA) DUCTWORK TURNED UP
- SUPPLY AIR (SA) DUCTWORK TURNED DOWN
- RETURN AIR (RA) DUCTWORK TURNED UP
- RETURN AIR (RA) DUCTWORK TURNED DOWN
- EXHAUST AIR (EA) DUCTWORK TURNED UP
- EXHAUST AIR (EA) DUCTWORK TURNED DOWN
- SQUARE ELBOW WITH TURNING VANES
- ROUND ELBOW
- BELL MOUTH BRANCH
- SHOE TAP BRANCH
- SHOE TAP BRANCH W/ SQUARE TO ROUND TRANSITION
- FLEXIBLE DUCTWORK
- SUPPLY AIR DIFFUSER (BLACK TRIANGLE INDICATES BLANK-OFF)
- EXHAUST/RETURN REGISTER OR GRILLE
- SLOT DIFFUSER (SHADED AREA INDICATES BLANK-OFF)
- VV/CV [AIR TERMINAL WITHOUT REHEAT]
- VVR/CVR [AIR TERMINAL WITH REHEAT]
- BACKDRAFT DAMPER
- FUSIBLE LINK FIRE DAMPER
- COMBINATION FIRE/SMOKE DAMPER
- SMOKE DAMPER
- VOLUME DAMPER (MANUAL)
- MOTORIZED DAMPER
- AIR FLOW STATION
- THERMOSTAT
- EX EXISTING
- RX REMOVE

- BALL VALVE
- HIGH PERFORMANCE BUTTERFLY VALVE
- GLOBE VALVE
- GATE VALVE
- BLOW DOWN STRAINER
- PRESSURE/TEMPERATURE PORT
- 3/4" HOSE CONNECTION WITH FULL PORT BALL VALVE
- PRESSURE GAUGE
- DIGITAL THERMOMETER
- PRESSURE REGULATOR
- BACKFLOW PREVENTER
- F & T TRAP
- MANUAL AIR VENT
- AUTOMATIC AIR VENT
- PRESSURE RELIEF
- INVERTED BUCKET TRAP
- FLOW METER
- CALIBRATED BALANCING VALVE
- 2-WAY CONTROL VALVE
- 3-WAY CONTROL VALVE
- AUTOMATIC FLOW CONTROL VALVE
- SWING CHECK VALVE
- COMBINATION CHECK/BALANCE/SHUTOFF VALVE (TRIPLE DUTY VALVE)
- STRAINER
- UNION
- CAP
- PIPE TEE TURNED UP
- PIPE TEE TURNED DOWN
- PIPE ELBOW TURNED UP
- PIPE ELBOW TURNED DOWN
- HWS HOT WATER SUPPLY PIPE
- HWR HOT WATER RETURN PIPE
- D CONDENSATE DRAIN PIPE
- CHWS CHILLED WATER SUPPLY PIPE
- CHWR CHILLED WATER RETURN PIPE
- PCHWS CHILLED WATER SUPPLY PIPE
- PCHWR CHILLED WATER RETURN PIPE
- CWS CONDENSER WATER SUPPLY PIPE
- CWR CONDENSER WATER RETURN PIPE
- LPS LOW-PRESSURE STEAM PIPE
- LPC LOW-PRESSURE CONDENSATE PIPE
- MPS MEDIUM-PRESSURE STEAM PIPE
- MPC MEDIUM-PRESSURE CONDENSATE PIPE
- HPS HIGH-PRESSURE STEAM PIPE
- HPC HIGH-PRESSURE CONDENSATE PIPE
- BFW BOILER FEED WATER PIPE
- CW COLD WATER PIPE
- SW SOFT WATER PIPE
- SBD SURFACE BLOW DOWN PIPE
- BBD BOTTOM BLOW DOWN PIPE
- DAFW DEAERATOR FEED WATER PIPE
- ESW EMERGENCY SOFT WATER PIPE
- VC VACUUM CONDENSATE PIPE

# PROJECT GENERAL NOTES

1. THE MECHANICAL PLANS ARE DIAGRAMMATIC IN NATURE AND ARE BASED ON ONE MANUFACTURER'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL OF THE DETAILS FOR THE EQUIPMENT. THE MECHANICAL CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT AND ENSURE THAT IT WILL FIT IN THE AVAILABLE SPACE.
2. MECHANICAL CONTRACTOR RESPONSIBLE FOR INSTALLATION OF COMPLETED AND OPERATIONAL SYSTEMS WITH DUE RESPECT TO ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION.
3. IT IS THE CONTRACTOR RESPONSIBILITY TO FIELD VERIFY ALL CONNECTION POINTS PRIOR TO INSTALL. NOT ALL CONNECTION SIZES ARE SHOWN, BUT THOSE THAT ARE APPROXIMATE AND TAKEN FROM EXISTING AS-BUILTS AND FIELD OBSERVATIONS.
4. COORDINATE PIPE ROUTING WITH DUCTWORK, SPRINKLER PIPING AND ELECTRICAL POWER/LIGHTING CIRCUITING AND STRUCTURAL MEMBERS PRIOR TO INSTALLATION.
5. CONTRACTORS TO VERIFY ALL GRADES, DIMENSIONS AND EXISTING CONDITIONS AT THE SITE BEFORE PROCEEDING WITH WORK. NOTIFY PRIME CONSULTANT OF ANY DISCREPANCIES BETWEEN DRAWINGS AND ACTUAL CONDITIONS BEFORE INSTALLATION.
6. COORDINATE INSTALLATION OF PIPING AND DUCTWORK WITH ELECTRICAL CONTRACTOR AND OTHER TRADES.
7. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS NEEDED TO CONSTRUCT WORK SHOULD IN THE CONSTRUCTION DOCUMENTS AND ACCOMPANYING SPECIFICATIONS.
8. IF THERE IS A CONFLICT BETWEEN THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, THE MOST STRINGENT WILL APPLY.
9. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURERS. CONTRACTOR TO PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
10. PENETRATIONS OF DUCTS, PIPES, CONDUITS,ETC IN WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED, FIRE STOP MATERIAL, SHALL BE A UL/ULC-LISTED ASSEMBLY APPROPRIATE FOR FIRE OR SMOKE PENETRATIONS AS APPLICABLE AND AS APPROVED BY THE FIRE MARSHAL.
11. THE MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL FIRE, SMOKE, OR COMBINATION SMOKE/FIRE DAMPERS AND ACCESS PANELS COMMENSURATE WITH THE RATING OF THE WALL IN ALL DUCTWORK THAT PENETRATES FIRE WALLS, FIRE BARRIERS, FIRE PARTITIIONS, SMOKE BARRIERS AND SMOKE PARTITION IN ALL DUCTWORK THAT PENETRATES A HORIZONTAL OR VERTICAL FIRE PARTITION, OR AS OTHERWISE SHOWN ON THE DRAWINGS.
12. ALL BRANCH DUCTS SHALL HAVE VOLUME DAMPERS.
13. WHERE FLOW EXCEEDS 150 CFM, THE CONTRACTOR SHALL USE SMOOTH RADIUS ELBOWS OR TURNING VANES.
14. ALL DUCT JOINTS SHALL BE SEALED IN ACCORDANCE WITH SMACNA STANDARDS.
15. ALL DUCT DIMENSIONS ARE NET INSIDE VALUES. DIMENSIONS MAY BE CHANGED PROVIDED THAT THE NET FREE AREA IS MAINTAINED.
16. ALL CONCEALED DUCTWORK SHALL BE INSULATED WITH 1" FIBERGLASS INSULATING BLANKET WITH ALUMINUM FOIL FACING.
17. ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED AND TESTED IN ACCORDANCE WITH THE LOCAL REGULATIONS AND PROCEDURES DETAILED IN THE APPLICABLE STANDARDS ADOPTED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION. (SMACNA).
18. ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. THE USE OF WIRE OR METAL STRAPS TO SUPPORT PIPES WILL NOT BE PERMITTED. REFER TO SPECIFICATIONS FOR MINUMUM SPACING OF PIPE SUPPORTS.
19. THE HVAC SYSTEMS SHALL BE TESTED AND BALANCED BY AN INDEPENDENT AGENCY, UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER. A SEALED TYPE WRITTEN REPORT SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER.
20. A BUILDING COMMISSIONING PROCESS AND FUNCTIONAL TESTING OF MECHANICAL SYSTEMS SHALL CARRIED OUT BY A CERTIFIED COMMISSIONING PROFESSIONAL.
21. ALL EQUIPMENT TO BE INSTALLED ON MIN 6" THICK CONCRETE HOUSEKEEPING PADS.
22. ALL EQUIPMENT, DUCTS PIPING, AND OTHER DEVICES AND MATERIALS INSTALLED OUTSIDE OF THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHERPROOFED.
23. MECHANICAL EQUIPMENT, DUCTS AND PIPING ARE TO BE COORDINATED WITH STRUCTURAL JOISTS AND CROSS BRACING.
24. ALL EXPOSED PIPING IN OCCUPIED SPACES SUBJECT TO ARCHITECTURAL APPROVAL PRIOR TO INSTALLATION.



# MECHANICAL KEY NOTE LEGEND

| Key Value | Keynote Text |
|---|---|
| 23.1 | PROVIDE NEW SUPPLY DIFFUSER AS INDICATED ON SCHEDULE. |
| 23.2 | PROVIDE NEW RETURN GRILLE AS INDICATED ON SCHEDULE. |
| 23.3 | PROVIDE AND INSTALL AIR CONDITIONING UNIT (AC-1) AS SPECIFIED IN THE SCHEDULE. ALL INSTALLATION SHALL BE AS PER MANUFACTURER RECOMMENDATION. REFER TO SHEET M-501#1 FOR FURTHER INFORMATION. |
| 23.4 | PROVIDE NEW THERMOSTAT AND CONTROL WIRING TO LOCATION SHOWN. THERMOSTAT SHALL BE COMPATIBLE WITH EXISTING BMS SYSTEM(IF AVAILABLE). |
| 23.5 | INSTALL EXTERNAL CONDENSATE PUMP (CDP-1). COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE 120V AC PLUG NEXT TO AC-1 FOR EXTERNAL PUMP. RECONNECT CONDENSATE DRAIN PIPING WITH EXISTING AVAILABLE IN THE ROOM.VERIFY EXACT LOCATION IN FIELD. |
| 23.6 | PROVIDE 14"x20" MERV 8 FILTER,SLOPED RACK IN DUCT WITH ACCESS DOOR. |
| 23.7 | PROVIDE MIXING BOX WITH MOTORIZED DAMPERS. |
| 23.8 | SERVICE CLEARANCE AS PER MANUFACTURER RECOMMENDATION. |
| 23.9 | PROVIDE ARCTIC TEE. REFER TO SHEET M-501#3 FOR DETAILS. |
| 23.10 | PROVIDE HOOD TO EXTERIOR WALL WITH 1" WIREMASH BIRDSCREEN. HOOD ELBOW DOWN TO 36". |
| 23.11 | PROVIDE SLEEVE AND WEATHERTIGHT SEAL AT EXTERIOR WALL PENETRATION(TYPICAL). |
| 23D.1 | DEMOLISH EXISTING VAV BOX, ASSOCIATED CONTROL AND PIPING. CAP AND SEAL DUCT AND PIPING AT EXTENT OF DEMOLITION. |
| 23D.2 | DEMOLISH EXISTING MECHANICAL EQUIPMENT LOCATED ABOVE CEILING ALONG WITH ASSOCIATED CONTROL, ELECTRICAL WIRING AND ALL ASSOCIATED COMPONENTS. RETAIN THE EXISTING CONDENSATE DRAIN PIPING FOR REUSE. PREPARE THE PIPING FOR CONNECTION WITH THE NEW MECHANICAL UNIT. |
| 23D.3 | DEMOLISH EXISTING TRANSFER DUCT. |
| 23D.4 | EXISTING MAIN DUCT, HWS, HWR PIPING AND OTHER MECHANICAL EQUIPMENTS LOCATED ABOVE CEILING TO REMAIN IN PLACE UNLESS OTHERWISE NOTED. |
| 23D.5 | EXISTING BASEBOARD HEATERS, ASSOCIATED CONTROL AND PIPING TO REMAIN IN PLACE. |

# ABBREVIATIONS

(SOME ABBREVIATIONS MAY NOT BE USED ON THIS PROJECT)

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ABOVE | ABV. | CONVECTOR | CONV. | FAHRENHEIT | F | HEAT EXCHANGER | HX | NOT APPLICABLE | N/A | SOUND ATTENUATOR | SA |
| AIR CONDITIONING | A/C | COOLING TOWER | CT | FLANGE AND SPIGOT | F&S | HYDRAULIC | HYD. | NORMALLY CLOSED | N.C. | SUPPLY AIR | SA |
| ACCESS DOOR | AD | CONDENSING UNIT | CU | FRESH AIR INLET | FAI | | | NOT IN CONTRACT | NIC | SUPPLY AIR TEMPERATURE | SAT |
| ABOVE FINISHED FLOOR | AFF | CITY WATER | CW | FAN COIL | FC | INSIDE DIAMETER | ID | NORMALLY OPEN | N.O. | SCHEDULE | SCHED. |
| AIR HANDLING UNIT | AHU | | | FLOOR DRAIN | FD | INCHES OF WATER GAUGE | IN. W.G. | NOMINAL | NOM. | SECTION | SECT. |
| ALTERNATE | ALT. | DRYBULB TEMPERATURE (DEG. F) | DB | FINAL FILTER | FF | INSULATION | INSUL. | NOT TO SCALE | NTS | SQUARE FOOT | SF |
| ALUMINUM | ALUM. | DECIBEL | dB | FINISH | FIN. | INVERT | INV. | | | SIMILAR | SIM. |
| ARCHITECTURAL | ARCH. | DIRECT DIGITAL CONTROL | DDC | FIXTURE | FIXT. | INSPECTOR'S TEST CONNECTION | ITC | OUTDOOR AIR | OA | SHEET METAL | SM |
| AUTOMATIC TEMPERATURE CONTROL | ATC | DETAIL | DET. | FLASHING | FLASH. | | | OUTDOOR AIR INTAKE | OAI | STAIRWELL PRESSURIZATION AIR | SPA |
| | | DIAMETER | DIA. | FLEXIBLE | FLEX. | JANITOR CLOSET | JC | OUTDOOR AIR TEMPERATURE | OAT | SPECIFICATION | SPEC. |
| BALL DRIP | BD | DIMENSION | DIM. | FLOOR | FLR. | JANITOR SINK | JS | ON CENTER | OC | STEEL | STL. |
| BRAKE HORSEPOWER | BHP | DISCHARGE | DISCH. | FOUNDATION | FND. | JOINT | JT. | OUTSIDE DIAMETER | OD | STORAGE | STOR. |
| BRANCH LINE | BL | DOWN | DN. | FIRE PROTECTION | FP | | | OVERHEAD | OH | STRAINER | STR. |
| BUILDING | BLDG. | DITTO | DO | FEET PER MINUTE | FPM | KILOWATT | KW | OPENING | OPNG. | STRUCTURAL | STRUCT. |
| BOTTOM | BTM. | DAMPER | DPR. | FEET PER SECOND | FPS | KILOWATT HOUR | KWh | OPEN END RETURN | OER | SUSPENDED | SUSP. |
| BRITISH THERMAL UNITS/HOUR | BTUH | DRAWING | DWG. | FINNED TUBE | FT | | | | | SWITCH | SW. |
| | | DOMESTIC WATER HEATER | DWH | FEET OF WATER GAUGE | FT. W.G. | LEAVING AIR TEMPERATURE | LAT | PRESSURE DIFFERENTIAL | PD | | |
| CAPACITY | CAP. | | | FOOT (FEET) | FT. | LINEAL FOOT | LF | PREFILTER | PF | TEMPERATURE DIFFERENTIAL | TD |
| CONSTANT AIR VOLUME | CAV | ENTERING AIR TEMPERATURE (DEG. F) | EAT | FOOTING | FTG. | LIGHTING | LTG. | PENTHOUSE | PH. | TEMPERATURE | TEMP. |
| COOLING COIL | CC | EXHAUST FAN | EF | | | LOW VOLTAGE | LV | PREHEAT COIL | PHC | THICK | THK. |
| CUBIC FEET/MINUTE | CFM | ELECTRICAL | ELEC. | GAUGE | GA. | LOUVER | LVR. | PLUMBING | PLBG. | TAMPERPROOF SWITCH | TS |
| CABINET HEATER | CH | ELECTRICAL CONTRACTOR | E.C. | GALLONS | GAL. | LEAVING WATER TEMPERATURE | LWT | PRESSURE | PRESS. | TOILET EXHAUST | TE |
| CEILING | CLG. | ELEVATOR | ELEV. | GALVANIZED | GALV. | | | POUNDS PER SQUARE INCH | PSI | TOTAL STATIC PRESSURE | TSP |
| COOLER | CLR. | EMERGENCY GENERATOR | EM. GEN. | GALLONS PER HOUR | GPH | MIXED AIR | MA | POUNDS PER SQUARE INCH ABSOLUTE | PSIA | THERMOSTAT | T-STAT |
| CROSS MAIN | CM | ENCLOSURE | ENCL. | GALLONS PER MINUTE | GPM | THOUSANDS OF BTUs/HOUR | MBH | POUNDS PER SQUARE INCH GAUGE | PSIG | TRANSFER AIR | TA |
| CLEANOUT | CO. | EQUIPMENT | EQUIP. | | | MECHANICAL CONTRACTOR | M.C. | | | | |
| COLUMN | COL. | EXTERNAL STATIC PRESSURE | ESP | HEIGHT | HGT. | MECHANICAL | MECH. | RETURN AIR | RA | UNIT HEATER | UH |
| COMBINATION | COMB. | EVAPORATOR | EVAP. | HAND-OFF-AUTOMATIC | HOA | MECHANICAL EQUIPMENT ROOM | MER | RETURN AIR TEMPERATURE | RAT | UNIT VENTILATOR | UV |
| CONCRETE | CONC. | ENTERING WATER TEMPERATURE (DEG. F) | EWT | HORIZONTAL | HORIZ. | MANUFACTURER | MFR. | REVISION | REV. | | |
| CONDENSATE | COND. | EXHAUST | EXH. | HORSEPOWER | HP | MANHOLE | MH. | RELATIVE HUMIDITY | RH | VARIABLE AIR VOLUME | VAV |
| CONDENSER | CONDR. | EXHAUST AIR | EA | HIGH POINT | HP | MILLIONS OF BTUs/HOUR | MMBH | REHEAT COIL | RHC | VERTICAL | VERT. |
| CONNECTION | CONN. | EXISTING | EXIST. | HUMIDISTAT | H-STAT | MOUNTED | MTD. | RADIO ISOTOPE HOOD | RIH | VIBRATION ISOLATOR | VI |
| CONSTRUCTION | CONST. | EXPANSION | EXP. | HEATING | HTG. | MOUNTING | MTG. | ROOM | RM. | VOLUME | VOL. |
| CONTINUOUS | CONT. | EXPANSION LOOP | EXP. LP. | HIGH VOLTAGE | HV | METAL | MTL. | REVOLUTIONS PER MINUTE | RPM | VENT THROUGH ROOF | VTR |


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Permit/Seal

STATE OF ALASKA 49 TH
MICHAEL S. MACEDO
ME-11897
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM

BARROW COURTHOUSE
CLERK COUNTER
REMODEL PERMIT
DOCUMENTS
1250 AGVIK STREET
UTQIAGVIK AK 99723

Project No.:2014341790

Title
MECHANICAL COVER SHEET

Scale: 1/8" = 1'-0"
Revision: 1
Drawing No. **M-001**

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ORIGINAL SHEET - ANSI D

**COMMON WORK RESULTS FOR MECHANICAL**

1. ALL WORK SHALL BE IN COMPLIANCE WITH THE DRAWINGS AND THE GENERAL PROVISIONS OF THE CONTRACT INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS.
2. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL LOCATION AND ARRANGEMENT OF THE EQUIPMENT AND PIPING. THE CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY CONDITIONS FOR INSTALLATION PRIOR TO BID SUBMISSION. IF A DISCREPANCY EXISTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL SYSTEM BASED ON THE DESIGN INTENT OF THE DRAWINGS AND SPECIFICATIONS.
3. PROVIDE SUBMITTALS ON ALL MATERIALS AND EQUIPMENT TO BE INSTALLED FOR REVIEW BY THE ARCHITECT AND ENGINEER. ALL MATERIALS AND EQUIPMENT SHALL BE PER THE SPECIFICATIONS AND DRAWINGS AND SHALL BE PROVIDED IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS.
   A. SHOP DRAWINGS
   B. PRODUCT DATA SHEETS
   C. SAMPLES
   D. MANUFACTURER'S INSTRUCTIONS
   E. MAINTENANCE DATA
   F. WARRANTY
4. SUBMITTAL DATA SHALL BE SUBMITTED AFTER CONTRACTS HAVE BEEN AWARDED AND PRIOR TO FABRICATION. INSTALLATION OF MATERIAL REQUIRING REVIEW AND APPROVAL BY THE ARCHITECT/ENGINEER PRIOR TO SUBMITTALS SHALL BE AT CONTRACTOR'S RISK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL QUANTITIES AND CONFIGURATIONS OF DEVICES AND EQUIPMENT FOR A COMPLETE AND OPERATIONAL EQUIPMENT REGARDLESS OF INCOMPLETE OR INACCURATE SUBMITTALS.
5. PROVIDE AND SUBMIT AS-BUILT DOCUMENTS THAT INCLUDE ACCURATE ROUTINGS OF ALL ABOVE GROUND DUCTWORK.
6. PROVIDE BOUND OPERATIONAL AND MAINTENANCE MANUALS CONTAINING THE EQUIPMENT DATA, MANUFACTURER'S INSTALLATION, OPERATING, MAINTENANCE, REPAIR PARTS MANUAL FOR EACH SYSTEM COMPONENT, TEST REPORTS, AND AS-BUILT TEMPERATURE CONTROL DIAGRAMS.
7. VOLUNTARY ALTERNATES MAY BE SUBMITTED FOR CONSIDERATION ON THE PROPOSAL, WITH LISTED ADDITION OR DEDUCTIONS TO THE BASE BID, BUT WILL NOT AFFECT THE AWARDING OF THE CONTRACT. THE BASE BID MUST BE IN ACCORDANCE WITH THE MATERIALS AND PRODUCTS SPECIFIED.
8. OBTAIN AND PAY FOR ALL PERMITS (TEMPORARY AND PERMANENT), FEES, AND INSPECTIONS AS REQUIRED BY ANY APPLICABLE LAWS AND ORDINANCES. POST SUCH PERMITS AND INSPECTION CERTIFICATES IN A PROMINENT PLACE ADJACENT TO THE WORK. DELIVER ALL CERTIFICATES OF FINAL INSPECTION OR APPROVAL TO THE ARCHITECT/ENGINEER. DO NOT COVER ANY CONCEALED WORK UNTIL FINAL INSPECTION HAS BEEN MADE AND APPROVAL CERTIFICATES OBTAINED. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES AS WELL AS ASHRAE, ANSI, ASTM,UL, AMCA, SMACNA, AND NEC.
9. PROVIDE CONDENSATE OR INDIRECT DRAIN PIPING FROM EQUIPMENT. PROVIDE NEUTRALIZATION SYSTEM FOR ANY CORROSIVE DRAINAGE PRIOR TO DISCHARGE TO FLOOR DRAIN.
10. PROVIDE TESTING, ADJUSTMENT, AND CLEANING OF ALL SYSTEMS AND EQUIPMENT.
11. DELIVER DUCTWORK AND TUBES WITH FACTORY-APPLIED END CAPS. MAINTAIN END CAPS THROUGH SHIPPING, STORAGE, AND HANDLING TO PREVENT DUCTWORK END DAMAGE AND TO PREVENT ENTRANCE OF DIRT, DEBRIS, AND MOISTURE. SUPPORT DUCTWORK TO PREVENT SAGGING AND BENDING.
12. ALL MECHANICAL SYSTEMS ARE TO BE CONCEALED UNLESS OTHERWISE NOTED.
13. PROVIDE ALL CUTTING, PATCHING, AND RESTORATION OF WALLS, FLOORS, AND PARTITIONS AS REQUIRED TO COMPLETE THE MECHANICAL SCOPE OF WORK. ALL ROOF WORK SHALL BE COORDINATED AND PAID FOR BY THE CONTRACTOR TO MAINTAIN EXISTING WARRANTIES.
14. PROVIDE A UL CLASSIFIED FIRE STOPPING SYSTEM FOR MECHANICAL PENETRATIONS THROUGH RATED WALL AND FLOORS TO MAINTAIN THE FIRE RATING.
15. IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO STUDY THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS, CONFERRING WITH THE VARIOUS TRADES INVOLVED AND CHECKING WITH THE SUPPLIER OF EQUIPMENT IN ORDER TO PROPERLY ROUGH-IN ALL EQUIPMENT.
16. ALL MATERIAL AND EQUIPMENT SHALL BE NEW AND OF THE BEST QUALITY USED FOR THE PURPOSE IN GOOD COMMERCIAL PRACTICE. THE MATERIAL AND EQUIPMENT MUST MEET THE APPROVAL OF STATE AND LOCAL CODES IN THE AREA IT IS BEING USED. ROOF DECKS SHALL NOT BE USED TO SUPPORT PIPING, CONDUIT, EQUIPMENT, DEVICES, ETC.
17. CONTRACTOR SHALL GUARANTEE ALL WORK INSTALLED BY HIM OR HIS SUBCONTRACTORS TO BE FREE FROM DEFECT IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF THE WORK, UNLESS A LONGER PERIOD IS STIPULATED UNDER A SPECIFIC SECTION. CONTRACTOR SHALL REPAIR OR REPLACE AT NO ADDITIONAL COST TO THE OWNER, ANY MATERIAL OR EQUIPMENT DEVELOPING DEFECTS AND SHALL ALSO MAKE GOOD ANY DAMAGE CAUSED BY SUCH DEFECTS OR THE CORRECTION OF DEFECTS. REPAIRS OR REPLACEMENTS SHALL BEAR ADDITIONAL GUARANTEE, AS ORIGINALLY CALLED FOR, AND DATED FROM THE FINAL ACCEPTANCE OF THE REPAIR OR REPLACEMENT. THIS REQUIREMENT SHALL BE BINDING EVEN THOUGH IT WILL EXCEED PRODUCT GUARANTEES NORMALLY FURNISHED BY SOME MANUFACTURERS. CONTRACTOR SHALL SUBMIT HIS OWN AND EACH EQUIPMENT MANUFACTURERS WRITTEN CERTIFICATES, WARRANTING THAT EACH ITEM OF THE EQUIPMENT FURNISHED COMPLIES WITH ALL REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. NOTE THAT GUARANTEE SHALL RUN FROM DATE OF FINAL ACCEPTANCE OF THE WORK, NOT FROM THE DATE OF INSTALLATION OF A DEVICE OR PIECE OF EQUIPMENT.
18. CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING PROPOSAL AND EXAMINE AND VERIFY EXISTING CONDITIONS. ADDITIONAL CHARGES WILL NOT BE ALLOWED DUE TO FAILURE TO COMPLETE SITE VISIT OR TO INCLUDE NECESSARY MATERIALS AND LABOR TO COMPLETE THE WORK. PROPOSAL BEING SUBMITTED IMPLIES SITE VISIT HAS OCCURRED AND CONTRACTOR UNDERSTANDS THE CONDITIONS WHICH THE WORK WILL BE CONDUCTED.
19. ANY CONFLICT WITHIN THE DOCUMENTS SHALL BE INCLUDED WITH THE HIGHEST COST.
20. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL VERIFY THAT SYSTEMS CAN BE INSTALLED AS DESIGNED WITHOUT TRAPPING OR INTERFERING WITH COLUMNS, BEAMS, PIPING, FIXTURES, ETC. NOTIFY THE ENGINEER OF ANY NECESSARY MAJOR DEVIATION FOR ADJUSTMENT, AT NO INCREASE IN CONTRACT PRICE. UPON DETERMINATION OF EQUIPMENT TO BE PROVIDED FOR THE JOB, THE CONTRACTOR SHALL VERIFY AND COORDINATE THE DIMENSIONS WITH ALL OTHER TRADES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHANGE AS NECESSARY (THROUGH THE ENGINEER) ALL REQUIRED OPENINGS SUCH THAT CURBS, ELECTRICAL, SUPPORT STEEL, ETC. WILL FIT THE EQUIPMENT. ANY ADDITIONAL COSTS WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. IF ADDITIONAL WIRING, PIPING, CONTROLS, ETC. ARE REQUIRED FOR EQUIPMENT, THIS CONTRACTOR SHALL INCLUDE THE COST IN THEIR PRICE. DIMENSIONS, ELEVATIONS, AND RELATIVE LOCATIONS OF EXISTING EQUIPMENT, PIPES, DUCTS, FIXTURES, ETC.AS SHOWN ON DRAWINGS ARE TAKEN FROM AS-BUILT AND RECORD DRAWINGS AND ARE DEEMED RELIABLE AS GENERAL LAYOUT IS CONCERNED. THESE DIMENSIONS SHALL NOT BE USED FOR LAYOUT DRAWINGS FOR DETAILING OF COMPONENTS. THE CONTRACTOR SHALL PROVIDE ALL MEASUREMENTS, DETERMINATION OF EXACT ELEVATIONS OR LOCATIONS, ASCERTAINING ACCURACY OF ALL GIVEN ELEVATIONS AND DIMENSIONS TO INSURE PROPER COORDINATION OF ALL EQUIPMENT, DUCTWORK, PIPING, ETC.
21. CONTRACTOR SHALL PROVIDE FIELD TESTING, CHECK-OUT AND SYSTEM DEMONSTRATION TO OWNER TO ASSURE PROPER PERFORMANCE AND ADJUSTMENT OF ITEMS PROVIDED UNDER THE CONTRACT. REMOVE ALL DEBRIS CREATED BY THE CONSTRUCTION WORK AND CLEAN ALL EQUIPMENT, AIR DEVICES, ETC. INSIDE AND OUTSIDE. PROVIDE HARDBOUND BINDER WHICH INCLUDES COPIES OF EACH SHOP DRAWING, PREVENTATIVE MAINTENANCE PROCEDURES, OPERATION AND INSTRUCTION MANUALS, LITERATURE SUPPLIED WITH EQUIPMENT, AND A LIST OF ALL CONTRACTOR'S PURCHASE ORDERS WITH SUPPLIERS, NAMES, ADDRESSES AND PHONE NUMBERS, FOR ALL MATERIALS. PROVIDE AT LEAST 2 HOURS OF INSTRUCTION TO PERSONNEL SELECTED BY THE OWNER, TO FAMILIARIZE THEM WITH THE LOCATION OF SIGNIFICANT EQUIPMENT, TRAIN THEM ON EQUIPMENT FUNCTIONS, REVIEW MAINTENANCE PROCEDURES AND COORDINATE INFORMATION AVAILABLE IN THE CLOSE-OUT BINDER.

**COMMON MOTOR REQUIREMENTS**

1. COMPLY WITH NEMA MG 1 UNLESS OTHERWISE NOTED.
2. MOTOR SHALL BE CAPABLE OF CONTINUOUS DUTY AT AN AMBIENT TEMPERATURE OF 104 DEGREE F.
3. MOTOR SHALL HAVE SUFFICIENT CAPACITY AND TORQUE TO START, ACCELERATE, AND OPERATE CONNECTED LOADS AT DESIGNATED SPEEDS, AT INSTALLED ALTITUDE AND ENVIRONMENT, WITH INDICATED OPERATING SEQUENCE, AND WITHOUT EXCEEDING NAMEPLATE RATINGS OR CONSIDERING SERVICE FACTOR.
4. POLYPHASE MOTORS SHALL BE A PREMIUM EFFICIENT NEMA MG 1, DESIGN B, INDUCTION MOTOR WITH A 1.15 SERVICE FACTOR.
5. SINGLE PHASE MOTORS SHALL BE THERMALLY PROTECTED TO OPEN POWER WHEN WINDING TEMPERATURES EXCEED SAFE VALUES.
6. PROVIDE INVERTOR RATED, THERMALLY PROTECTED, PREMIUM EFFICIENCY MOTORS WITH WINDINGS TESTED TO RESIST TRANSIENT SPIKES, HIGH FREQUENCIES, AND SHORT TIME RISE PULSES PRODUCED BY PULSE-WIDTH MODULATED INVERTERS.
7. MOTORS SHALL BE PROVIDED TO MEET THE REQUIREMENTS OF THEIR APPLICATION.

**HANGERS AND SUPPORTS**

1. HANGER AND SUPPORT INSTALLATION SHALL COMPLY WITH MSS SP-69 AND MSS SP-89 (MANUFACTURERS STANDARDIZATION SOCIETY FOR THE VALVE AND FITTINGS INDUSTRY INC).
2. THE USE OF "C" CLAMPS AND BEAM CLAMPS OF A "C" PATTERN AND ANY MODIFICATION THEREOF IS PROHIBITED.
3. METAL FRAMING SYSTEMS SHALL BE SUBJECT TO COMPLIANCE WITH REQUIREMENTS AND SHALL BE ONE OF THE FOLLOWING MANUFACTURERS: B-LINE SYSTEMS, ERICO/MICHIGAN HANGER COMPANY, OR UNISTRUT CORPORATION.
4. FASTENER SYSTEMS SHALL BE SUBJECT TO COMPLIANCE WITH REQUIREMENTS AND SHALL BE ONE OF THE FOLLOWING MANUFACTURERS: HILTI, B-LINE SYSTEMS, OR POWERS FASTENERS.
5. POWER-ACTUATED FASTENERS SHALL BE THREADED-STEEL STUD, FOR USE IN HARDENED PORTLAND CEMENT CONCRETE WITH PULL-OUT, TENSION, AND SHEAR CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS WHERE USED.
6. MECHANICAL-EXPANSION ANCHORS SHALL BE INSERT-WEDGE-TYPE STAINLESS STEEL, FOR USE IN HARDENED PORTLAND CEMENT CONCRETE WITH PULL-OUT, TENSION, AND SHEAR CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS WHERE USED.

**VIBRATION ISOLATION PRODUCTS**

A. FURNISH AND INSTALL ALL NECESSARY VIBRATION ISOLATORS, VIBRATION HANGERS, MOUNTING PADS, RAILS, ETC., TO ISOLATE VIBRATION AND SOUND FROM BEING TRANSMITTED TO THE BUILDING CONSTRUCTION. ALL VIBRATION ISOLATION PRODUCTS SHALL BE SPECIFICALLY DESIGNED FOR THEIR INTENDED USE.

B. MANUFACTURER OF VIBRATION ISOLATION EQUIPMENT SHALL HAVE THE FOLLOWING RESPONSIBILITIES:

1. DETERMINE VIBRATION ISOLATOR SIZES AND LOCATIONS.
2. PROVIDE SUITABLE PIPING AND EQUIPMENT VIBRATION ISOLATION SYSTEMS.
3. GUARANTEE SPECIFIED ISOLATION SYSTEM ATTENUATION AND DEFLECTION.
4. PROVIDE INSTALLATION INSTRUCTIONS, DRAWINGS AND FIELD SUPERVISION TO ASSURE PROPER INSTALLATION AND PERFORMANCE.

C. ISOLATION SYSTEMS SHALL BE MANUFACTURED BY MASON INDUSTRIES OR APPROVED EQUAL BY THE ENGINEER.

**IDENTIFICATION FOR MECHANICAL**

1. NEW OR RENOVATED DUCTWORK SYSTEMS AND EQUIPMENT SHALL HAVE IDENTIFICATION MARKERS.
   A. ALL SYSTEM IDENTIFICATION MARKERS SHALL HAVE 1/16 INCH THICK MARKERS WITH 1/4 INCH LETTERING. MARKERS SHALL BE CAPABLE OF WITHSTANDING 50 DEGREES ABOVE THE MAXIMUM OPERATING TEMPERATURE OF THE ASSOCIATED SYSTEM.
2. DUCTWORK SYSTEMS SHALL HAVE PLASTIC LAMINATED DUCT LABELS IDENTIFYING AIR FLOW TYPE AND SYSTEM NUMBER WITH PERMANENT ADHESIVE ON AIR DUCTS WITH THE FOLLOWING CODES:
   A. BLUE: FOR SUPPLY DUCTS.
   B. GREEN: FOR EXHAUST-, OUTSIDE-, RETURN-, AND MIXED-AIR DUCTS.
3. EQUIPMENT SHALL HAVE PLASTIC LAMINATED MARKERS IDENTIFYING SYSTEM DESIGNATION AND NUMBER.
4. WARNING TAGS AND LABELS SHALL HAVE PLASTIC LAMINATED MARKERS SECURED BY PERMANENT SCREWS OR FASTENERS WITH BLACK LETTERING AND A YELLOW BLACK BACKGROUND.

**MECHANICAL INSULATION**

1. GENERAL

   A) INSULATION SHALL BE APPLIED WITH MASTICS, ADHESIVES, AND COATINGS, WITH COVERS, WEATHER-PROTECTION AND OTHER WORK AS REQUIRED BY MANUFACTURER'S RECOMMENDATIONS. MATERIALS SHALL MEET REQUIREMENTS OF ADHESIVE AND SEALANT COUNCIL STANDARDS AND SMACNA.

2. INDOOR DUCTWORK

   A) ALL SUPPLY AIR, RETURN AIR, OUTSIDE AIR INTAKE, AND EXHAUST/SPILL/RELIEF AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHEN LOCATED WITHIN THE BUILDING ENVELOPE ASSEMBLY, UNLESS OTHERWISE INDICATED. WHEN LOCATED WITHIN THE BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM MUST BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES BY A MINIMUM OF R-8 INSULATION.
   B) CONCEALED DUCTWORK: INSULATE SUPPLY AND FRESH AIR DUCTS AND PLENUMS IN CONCEALED SPACES AND RETURN DUCT NOT IN CEILING PLENUM WITH AT LEAST 1-1/2" THICK FIBROUS GLASS DUCT WRAP, WITH A MINIMUM R-VALUE OF R-6 AND FOIL-KRAFT FLAME RESISTANT VAPOR BARRIER.
   C) EXPOSED DUCTWORK: INSULATE EXPOSED SUPPLY, RETURN AND FRESH AIR DUCTS AND EXPOSED PLENUMS WITH AT LEAST 2" THICK, SEMI-RIGID FIBROUS GLASS BOARDS WITH A MINIMUM R-VALUE OF R-6 AND A FACTORY APPLIED FIRE RETARDANT FOIL REINFORCED KRAFT VAPOR BARRIER FACING. PROVIDE WELD PINS AND VAPOR SEAL ALL JOINTS WITH TAPE. (THIS REQUIREMENT DOES NOT APPLY TO INTERNALLY LINED DUCTWORK LOCATED IN FINISHED SPACES.)
   D) EXHAUST/SPILL/RELIEF AIR DUCTS AND PLENUMS LOCATED UPSTREAM OF MOTORIZED OR BAROMETRIC ISOLATION DAMPERS SHALL NOT REQUIRE INSULATION. PORTIONS AFTER ISOLATION DAMPERS MUST BE INSULATED FROM THE DAMPER TO THE WALL/ROOF PENETRATION.

3. OUTDOOR DUCTWORK

   A) ALL SUPPLY AIR, RETURN AIR, OUTSIDE AIR INTAKE, AND EXHAUST/SPILL/RELIEF AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-8 INSULATION WHEN LOCATED OUTDOORS OR OUTSIDE THE BUILDING ENVELOPE ASSEMBLY.
   B) INSULATE OUTDOOR DUCTWORK AND PLENUMS WITH AT LEAST 2" THICK, SEMI-RIGID FIBROUS GLASS BOARDS WITH A MINIMUM R VALUE OF R-8 AND A FACTORY APPLIED FIRE RETARDANT FOIL REINFORCED KRAFT VAPOR BARRIER FACING. PROVIDE WELD PINS AND VAPOR SEAL ALL JOINTS WITH TAPE.
   C) IN ADDITION, APPLY TWO (2) COATS OF WEATHERPROOF MASTIC AND EMBED INTO WET COAT TWO (2) LAYERS OF GLASS CLOTH OVER INSULATION JACKET. SMOOTH MEMBRANE TO AVOID WRINKLES AND OVERLAP ALL SEAMS AT LEAST 3". APPLY A SECOND COAT OF THE SAME COATING TO THE ENTIRE SURFACE. TOP CENTER OF RECTANGULAR DUCT SHALL PITCH TO EACH SIDE TO AVOID TRAPPING OF WATER IN THE CENTER.

**METAL DUCTS**

1. DUCTWORK SHALL COMPLY WITH NFPA 90A, "INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS," NFPA 90B, "INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS.", AND SMACNA "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE."
2. FABRICATE IN ACCORDANCE WITH SMACNA, LOW PRESSURE DUCTWORK, SEAL CLASS A.
3. GALVANIZED STEEL SHALL BE HOT-DIPPED GALVANIZED SHEET STEEL COMPLYING WITH ASTM A 653/A 653M FS TYPE B, WITH G60/Z180 COATING.
4. FLEXIBLE DUCTS MANUFACTURER SHALL BE FLEXMASTER USA, MCGILL AIRFLOW, OR WARD INDUSTRIES. INSULATED FLEXIBLE DUCTS SHALL COMPLY WITH UL 181, CLASS I. IT SHALL BE A FLEXIBLE DUCT WRAPPED WITH FLEXIBLE GLASS FIBER INSULATION, ENCLOSED BY A FIRE-RETARDANT POLYETHYLENE VAPOR BARRIER JACKET; MAXIMUM 0.25 K VALUE AT 75 DEG F. FLEXIBLE DUCTS SHALL BE SUPPORTED BY ELBOW SUPPORTS AND THE SUPPORTS SHALL BE UL LISTED FOR USE IN RETURN AIR PLENUMS. PRESSURE RATING: 6-IN W.G. POSITIVE AND 0.5- IN W.G. NEGATIVE. FLEXIBLE DUCTWORK SHALL NOT EXCEED 5 FEET IN LENGTH.

**DUCT ACCESSORIES**

1. COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE" FOR ACCEPTABLE MATERIALS, MATERIAL THICKNESSES, AND DUCT CONSTRUCTION METHODS UNLESS OTHERWISE INDICATED
2. DUCT ACCESSORIES SHALL BE SUBJECT TO COMPLIANCE WITH REQUIREMENTS AND SHALL BE ONE OF THE FOLLOWING MANUFACTURERS: RUSKIN COMPANY OR GREENHECK CORPORATION UNLESS OTHERWISE NOTED.
   A. MANUAL VOLUME DAMPERS: FACTORY FABRICATED WITH REQUIRED HARDWARE AND ACCESSORIES. INCLUDE LOCKING DEVICE TO HOLD SINGLE BLADE DAMPERS IN A FIXED POSITION WITHOUT VIBRATION. CLOSE DUCT PENETRATIONS FOR DAMPER COMPONENTS TO SEAL DUCT CONSISTENT WITH PRESSURE CLASS. MULTIPLE OR SINGLE BLADE, PARALLEL OR OPPOSED BLADE DESIGN, STANDARD LEAKAGE RATING WITH LINKAGE OUTSIDE OF AIRSTREAM, STIFFEN DAMPER BLADES FOR STABILITY. SUITABLE FOR HORIZONTAL OR VERTICAL APPLICATIONS, WITH MITERED AND WELDED CORNERS, PROVIDE GALVANIZED STEEL HARDWARE. INCLUDE ELEVATED PLATFORM FOR INSULATED DUCT MOUNTING.
   INSTALL VOLUME DAMPERS AT POINTS ON SUPPLY, RETURN, AND EXHAUST SYSTEMS WHERE BRANCHES EXTEND FROM LARGER DUCTS. WHERE DAMPERS ARE INSTALLED IN DUCTS HAVING DUCT LINER, INSTALL DAMPERS WITH HAT CHANNELS OF SAME DEPTH AS LINER, AND TERMINATE LINER WITH NOSING AT HAT CHANNEL.
   B. FIRE DAMPERS SHALL BE DYNAMICALLY RATED AND LABELED ACCORDING TO UL 555. FIRE DAMPERS SHALL HAVE A 1 ½ OR 3 HOUR RATING, CURTAIN TYPE FRAME WITH BLADES OUTSIDE THE AIRSTREAM OR MULTI-BLADE TYPE MOUNTED IN A VERTICAL OR HORIZONTAL ARRANGEMENT AS INDICATED. HORIZONTAL DAMPERS SHALL INCLUDE BLADE LOCK AND STAINLESS STEEL NEGATOR CLOSURE SPRING. DAMPER SHALL HAVE A REPLACEABLE FUSIBLE LINK RATED FOR 212 DEGREE ACTUATION.
   C. TURNING VANES SHALL BE AIRFOIL-SHAPED ALUMINUM EXTRUSIONS WITH PERFORMED FACES AND FIBROUS-GLASS FILL AND SHALL COMPLY WITH COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE"; FIGURES 2-3, "VANES AND VANE RUNNERS," AND 2-4, "VANE SUPPORT IN ELBOWS." TURNING VANES SHALL BE DUCTMATE INDUSTRIES, METALAIRE INCORPORATED, OR SEMCO INCORPORATED.
   D. DUCT ACCESS DOORS SHALL COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE"; FIGURES 2-10, "DUCT ACCESS DOORS AND PANELS," AND 2-11, "ACCESS PANELS - ROUND DUCT." DUCT ACCESS DOORS SHALL BE AMERICAN WARMING AND VENTILATING, DUCTMATE INDUSTRIES INCORPORATED, FLEXMASTER USA INCORPORATED, OR GREENHECK FAN CORPORATION

**FIRE PROOFING**

1. MECHANICAL CONTRACTOR SHALL SEAL ALL PIPE PENETRATIONS THROUGH ALL FIRE RATED WALLS TO PREVENT SPREAD OF FIRE AND SMOKE.
2. FIRE STOP SHALL BE INSTALLED AND DESIGNED TO PROVIDE A MINIMUM 1 HOUR RATING. PROPERLY CLOSE ALL FIRE PENETRATION SEALS USING UL LISTED PRODUCTS TO MATCH THE PENETRATION FIRESTOP SYSTEM DESIGNATION. ALL FIRE STOP MATERIALS SHALL BE FREE OF DANGEROUS SOLVENTS, ASBESTOS, NON-HALOGENATED AND NOT PRODUCE TOXIC SMOKE OR FUMES DURING A FIRE.
3. FILL ALL AREAS AROUND PIPES OR SLEEVES WITH A DIELECTRIC, NON-HARDENING PUTTY SUCH AS INTERNATIONAL PROTECTIVE COATING FSP 1000 OR EXPANDING CAULK SUCH AS SILICONE R.T.V. FOAM OR INTERNATIONAL PROTECTIVE COATING FS900 OR EQUAL BY HILTI.
4. LARGE OPENINGS IN MASONRY WALLS MAY BE SEALED USING LIGHT WEIGHT, LOW DENSITY EXPANDING MORTAR SIMILAR AND EQUAL TO INTERNATIONAL PROTECTIVE COATING TYPE KBS MORTAR-SEAL.

**TEMPERATURE CONTROL**

1. EXPOSED 24V AND ALL 120 V TEMPERATURE CONTROL WIRING SHALL BE ROUTED IN ITS OWN SEPARATE CONDUIT FOR THE ENTIRE ROUTING, ALL WIRING SHALL BE PLENUM RATED; REFER TO ELECTRICAL SPECIFICATIONS FOR CONDUIT MATERIAL AND INSTALLATION REQUIREMENTS. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPERATURE CONTROL AND INTERLOCK WIRING REQUIRED FOR THE PROJECT.
2. THERMOSTATS INSTALLED FOR USE BY BUILDING OCCUPANTS SHALL BE MOUNTED PER ADA REQUIREMENTS.
3. MOUNT SENSORS AT 42 INCHES ABOVE FINISHED FLOOR.

**AIR DIFFUSION DEVICES**

1. AIR DIFFUSION DEVICES SHALL BE SUBJECT TO COMPLIANCE WITH REQUIREMENTS AND SHALL BE ONE OF THE FOLLOWING MANUFACTURERS: PRICE, TITUS OR TUTTLE & BAILEY.
   A. FLEXIBLE CONNECTORS SHALL CONFORM TO NFPA 90A WITH COATINGS COMPLYING WITH UL 181, CLASS 1. PROVIDE ON INLET AND DISCHARGE OF ALL FAN POWERED EQUIPMENT UNLESS OTHERWISE NOTED. METAL SHALL BE COMPATIBLE WITH CONNECTED DUCT SYSTEM.
   B. AIR DIFFUSION DEVICES SHALL BE SPECIFICALLY DESIGNED FOR VARIABLE AND CONSTANT VOLUME AIR FLOWS.
   C. PHYSICAL CHARACTERISTICS AND PERFORMANCE OF DEVICES SHALL BE AS SCHEDULED.
   D. COORDINATE FRAME TYPE AND LOCATIONS WITH ARCHITECTURAL CEILING AND ELECTRICAL LIGHTING PLANS.

**TESTING, ADJUSTING, AND BALANCING**

1. ALL AIR HANDLING DISTRIBUTION SYSTEMS AND EQUIPMENT SHALL BE ADJUSTED AS NECESSARY TO PROVIDE THE REQUIRED SUPPLY, RETURN, AND EXHAUST AIR QUANTITIES FOR EACH COMPONENT AS DESIGNED PRIOR TO THE FINAL INSPECTION OF THE BUILDING. ALL SYSTEM BALANCING SHALL BE CONDUCTED UNDER CONDITIONS APPROXIMATING ACTUAL OPERATION.
2. PERFORM TESTING AND BALANCING OF EXISTING SYSTEMS TO THE EXTENT THAT EXISTING SYSTEMS ARE AFFECTED BY THE RENOVATION WORK.
   A. COMPARE THE INDICATED AIRFLOW OF THE RENOVATED WORK TO THE MEASURED FAN AIRFLOWS AND DETERMINE THE NEW FAN, SPEED, FILTER, AND COIL FACE VELOCITY.
   B. VERIFY THAT THE INDICATED AIRFLOWS OF THE RENOVATED WORK RESULT IN FILTER AND COIL FACE VELOCITIES AND FAN SPEEDS THAT ARE WITHIN THE ACCEPTABLE LIMITS DEFINED BY EQUIPMENT MANUFACTURER.
   C. IF CALCULATIONS INCREASE OR DECREASE THE AIRFLOW BY MORE THAN 5 PERCENT, MAKE EQUIPMENT ADJUSTMENTS TO ACHIEVE THE CALCULATED AIRFLOW RATES. IF 5 PERCENT OR LESS, EQUIPMENT ADJUSTMENTS ARE NOT NEEDED.
   D. AIR BALANCE EACH AIR OUTLET.
   E. OBTAIN APPROVAL FROM ARCHITECT FOR ADJUSTMENT OF FAN SPEED HIGHER OR LOWER THAN INDICATED SPEED. MAKE REQUIRED ADJUSTMENTS TO PULLEY SIZES, MOTOR SIZES, AND ELECTRICAL CONNECTIONS TO ACCOMMODATE FAN-SPEED CHANGES.
   F. DO NOT MAKE FAN-SPEED ADJUSTMENTS THAT RESULT IN MOTOR OVERLOAD. CONSULT EQUIPMENT MANUFACTURERS ABOUT FAN-SPEED SAFETY FACTORS. MODULATE DAMPERS AND MEASURE FAN-MOTOR AMPERAGE TO ENSURE THAT NO OVERLOAD WILL OCCUR. MEASURE AMPERAGE IN FULL COOLING, FULL HEATING, ECONOMIZER, AND ANY OTHER OPERATING MODES TO DETERMINE THE MAXIMUM REQUIRED BRAKE HORSEPOWER.
3. ADJUST VOLUME DAMPERS FOR MAIN DUCT, SUBMAIN DUCTS, AND MAJOR BRANCH DUCTS TO INDICATED AIRFLOWS WITHIN SPECIFIED TOLERANCES.
   A. MEASURE STATIC PRESSURE AT A POINT DOWNSTREAM FROM THE BALANCING DAMPER AND ADJUST VOLUME DAMPERS UNTIL THE PROPER STATIC PRESSURE IS ACHIEVED.
      a. WHERE SUFFICIENT SPACE IN SUBMAIN AND BRANCH DUCTS IS UNAVAILABLE FOR PITOT-TUBE TRAVERSE MEASUREMENTS, MEASURE AIRFLOW AT TERMINAL OUTLETS AND INLETS AND CALCULATE THE TOTAL AIRFLOW FOR THAT ZONE.
   B. REMEASURE EACH SUBMAIN AND BRANCH DUCT AFTER ALL HAVE BEEN ADJUSTED. CONTINUE TO ADJUST SUBMAIN AND BRANCH DUCTS TO INDICATED AIRFLOWS WITHIN SPECIFIED TOLERANCES.
4. MEASURE TERMINAL OUTLETS AND INLETS WITHOUT MAKING ADJUSTMENTS.
   A. MEASURE TERMINAL OUTLETS USING A DIRECT-READING HOOD OR OUTLET MANUFACTURER'S WRITTEN INSTRUCTIONS AND CALCULATING FACTORS.
5. ADJUST TERMINAL OUTLETS AND INLETS FOR EACH SPACE TO INDICATED AIRFLOWS WITHIN SPECIFIED TOLERANCES OF INDICATED VALUES. MAKE ADJUSTMENTS USING VOLUME DAMPERS RATHER THAN EXTRACTORS AND THE DAMPERS AT AIR TERMINALS.
   A. ADJUST EACH OUTLET IN SAME ROOM OR SPACE TO WITHIN SPECIFIED TOLERANCES OF INDICATED QUANTITIES WITHOUT GENERATING NOISE LEVELS ABOVE THE LIMITATIONS PRESCRIBED BY THE CONTRACT DOCUMENTS.
   B. ADJUST PATTERNS OF ADJUSTABLE OUTLETS FOR PROPER DISTRIBUTION WITHOUT DRAFTS.
6. INSPECTION:
   A. AFTER TESTING AND BALANCING ARE COMPLETE, OPERATE EACH SYSTEM AND RANDOMLY CHECK MEASUREMENTS TO VERIFY THAT THE SYSTEM IS OPERATING ACCORDING TO THE FINAL TEST AND BALANCE READINGS DOCUMENTED IN THE FINAL REPORT.
   B. RANDOMLY CHECK THE FOLLOWING FOR EACH SYSTEM:
      a. MEASURE AIRFLOW OF AT LEAST 10 PERCENT OF AIR OUTLETS.
      b. MEASURE ROOM TEMPERATURE AT EACH THERMOSTAT/TEMPERATURE SENSOR. COMPARE THE READING TO THE SET POINT.
      d. VERIFY THAT BALANCING DEVICES ARE MARKED WITH FINAL BALANCE POSITION.
   C. FURNISH CERTIFIED REPORTS.

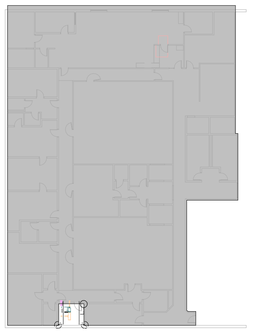
**SEQUENCE OF OPERATIONS AIR CONDITIONING UNIT(AC-1) ,RELIEF DAMPER(MD-1),OUTSIDE DAMPER (MD-2), RETURN DAMPER(MD-3)**

**A. INPUT**

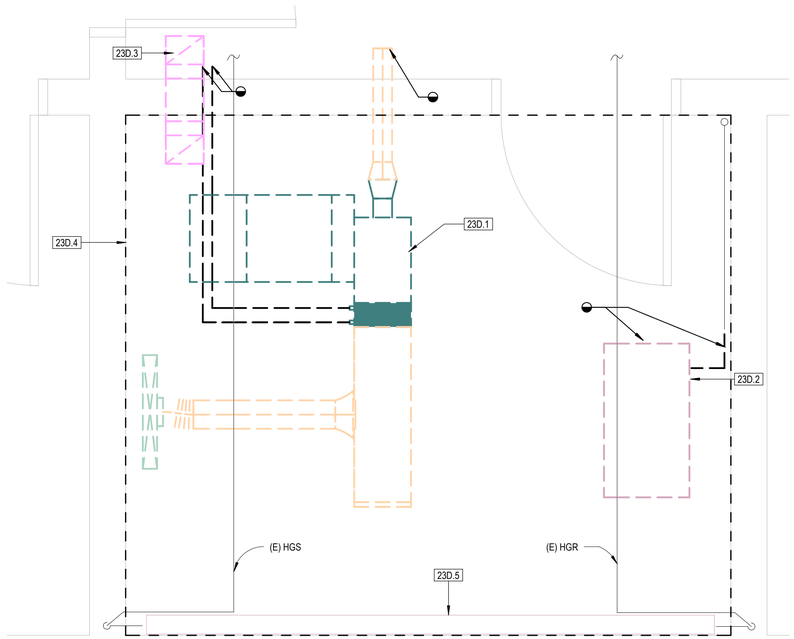
1. ROOM T 'STAT (FACTORY WALL CONTROL)
2. MIXED AIR SENSOR (DDC)
3. RETURN/RELIEF AIR SENSOR (DDC)
4. OUTSIDE AIR SENSOR. (DDC)
5. OUTDOOR FILTER DIFFERENTIAL PRESSURE (DDC)

**B, SEQUENCE**

1. ON CALL FOR COOLING (ROOM 75 DEG F) AC-1 STARTS. OUTSIDE DAMPER(



1 M-101 **KEY PLAN.**
1/32" = 1'-0"




2 M-101 **PARTIAL MECHANICAL DEMOLITION PLAN - SERVER ROOM**
3/4" = 1'-0"

## GENERAL NOTES

*GENERAL NOTES APPLY TO ALL SHEETS IN THE SERIES THAT THEY ARE ON. EACH SERIES OF SHEETS WILL START OVER AT NOTE 1.*

1. REFER TO SHEET M-001 FOR GENERAL NOTES.

## KEY NOTES

*KEY NOTES ARE NUMBERED SEQUENTIALLY FROM M1 TO THE LAST KEY NOTE. THEY ARE PROJECT SPECIFIC. REFER TO M001 FOR THE ENTIRE LIST OF ALL KEY NOTES. ONLY THE KEY NOTES USED ON A SPECIFIC SHEET WILL BE LISTED ON THAT SHEET.*

| | |
|---|---|
| 23D.1 | DEMOLISH EXISTING VAV BOX, ASSOCIATED CONTROL AND PIPING. CAP AND SEAL DUCT AND PIPING AT EXTENT OF DEMOLITION. |
| 23D.2 | DEMOLISH EXISTING MECHANICAL EQUIPMENT LOCATED ABOVE CEILING ALONG WITH ASSOCIATED CONTROL, ELECTRICAL WIRING AND ALL ASSOCIATED COMPONENTS. RETAIN THE EXISTING CONDENSATE DRAIN PIPING FOR REUSE. PREPARE THE PIPING FOR CONNECTION WITH THE NEW MECHANICAL UNIT. |
| 23D.3 | DEMOLISH EXISTING TRANSFER DUCT. |
| 23D.4 | EXISTING MAIN DUCT, HWS, HWR PIPING AND OTHER MECHANICAL EQUIPMENTS LOCATED ABOVE CEILING TO REMAIN IN PLACE UNLESS OTHERWISE NOTED. |
| 23D.5 | EXISTING BASEBOARD HEATERS, ASSOCIATED CONTROL AND PIPING TO REMAIN IN PLACE. |

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ORIGINAL SHEET - ANSI D

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Permit/Seal

STATE OF ALASKA
49 TH
MICHAEL S. MACEDO
ME-11897
REGISTERED PROFESSIONAL ENGINEER

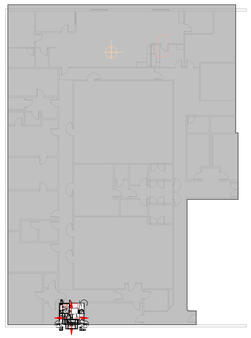
ALASKA COURT SYSTEM

BARROW COURTHOUSE
CLERK COUNTER
REMODEL PERMIT
DOCUMENTS
1250 AGVIK STREET
UTQIAGVIK AK 99723

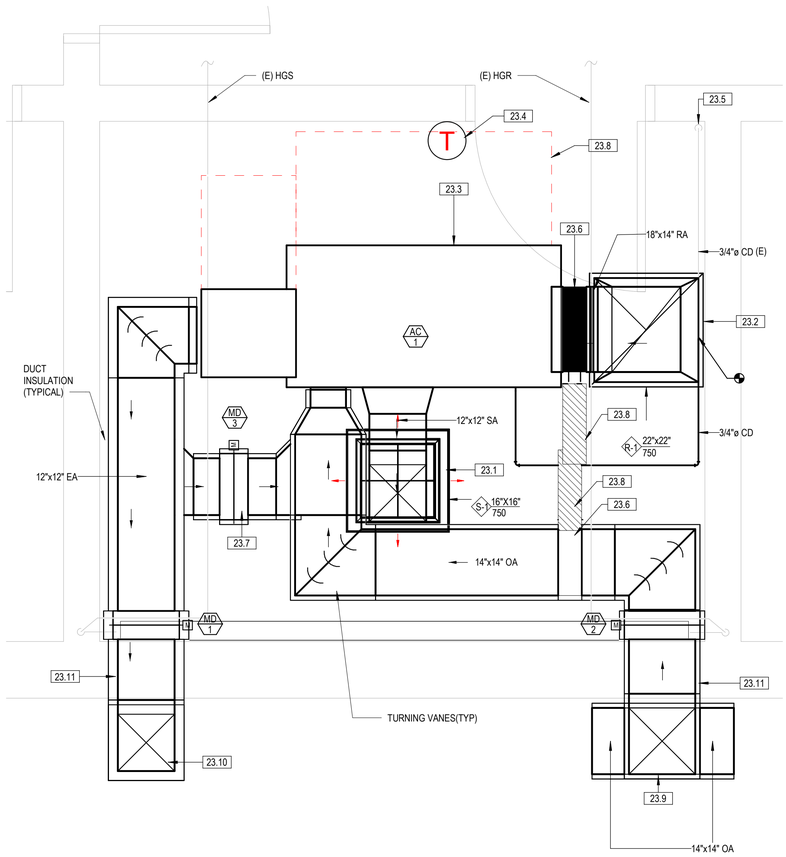
Project No.:2014341790

Title
MECHANICAL
DEMOLITION PLAN

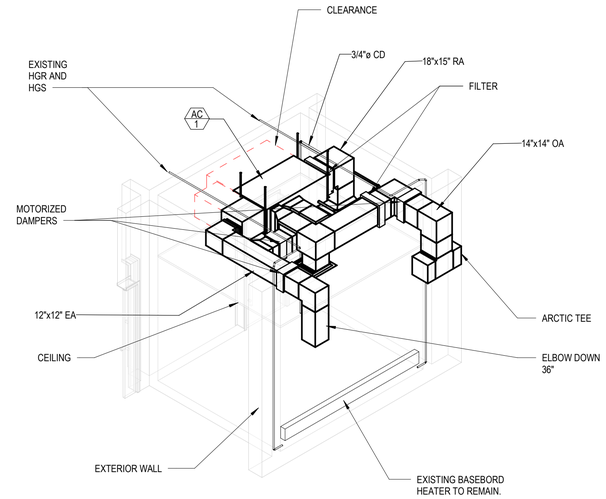
Scale: As indicated
Revision: 1
Drawing No. **M-101**



1 M-201 **KEY PLAN**
1/32" = 1'-0"




2 M-201 **PARTIAL MECHANICAL FLOOR PLAN - SERVER ROOM**
3/4" = 1'-0"




3 M-201 **PARTIAL MECHANICAL ISOMETRIC PLAN-SERVER ROOM**

## GENERAL NOTES

*GENERAL NOTES APPLY TO ALL SHEETS IN THE SERIES THAT THEY ARE ON. EACH SERIES OF SHEETS WILL START OVER AT NOTE 1.*

1. REFER TO SHEET M-001 FOR GENERAL NOTES.

## KEY NOTES

*KEY NOTES ARE NUMBERED SEQUENTIALLY FROM M1 TO THE LAST KEY NOTE. THEY ARE PROJECT SPECIFIC. REFER TO M001 FOR THE ENTIRE LIST OF ALL KEY NOTES. ONLY THE KEY NOTES USED ON A SPECIFIC SHEET WILL BE LISTED ON THAT SHEET.*

| | |
|---|---|
| 23.1 | PROVIDE NEW SUPPLY DIFFUSER AS INDICATED ON SCHEDULE. |
| 23.2 | PROVIDE NEW RETURN GRILLE AS INDICATED ON SCHEDULE. |
| 23.3 | PROVIDE AND INSTALL AIR CONDITIONING UNIT (AC-1) AS SPECIFIED IN THE SCHEDULE. ALL INSTALLATION SHALL BE AS PER MANUFACTURER RECOMMENDATION. REFER TO SHEET M-501#1 FOR FURTHER INFORMATION. |
| 23.4 | PROVIDE NEW THERMOSTAT AND CONTROL WIRING TO LOCATION SHOWN. THERMOSTAT SHALL BE COMPATIBLE WITH EXISTING BMS SYSTEM(IF AVAILABLE). |
| 23.5 | INSTALL EXTERNAL CONDENSATE PUMP (CDP-1). COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE 120V AC PLUG NEXT TO AC-1 FOR EXTERNAL PUMP. RECONNECT CONDENSATE DRAIN PIPING WITH EXISTING AVAILABLE IN THE ROOM.VERIFY EXACT LOCATION IN FIELD. |
| 23.6 | PROVIDE 14"x20" MERV 8 FILTER,SLOPED RACK IN DUCT WITH ACCESS DOOR. |
| 23.7 | PROVIDE MIXING BOX WITH MOTORIZED DAMPERS. |
| 23.8 | SERVICE CLEARANCE AS PER MANUFACTURER RECOMMENDATION. |
| 23.9 | PROVIDE ARCTIC TEE. REFER TO SHEET M-501#3 FOR DETAILS. |
| 23.10 | PROVIDE HOOD TO EXTERIOR WALL WITH 1" WIREMASH BIRDSCREEN. HOOD ELBOW DOWN TO 36". |
| 23.11 | PROVIDE SLEEVE AND WEATHERTIGHT SEAL AT EXTERIOR WALL PENETRATION(TYPICAL). |

5/29/2025 1:54:05 PM

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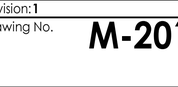


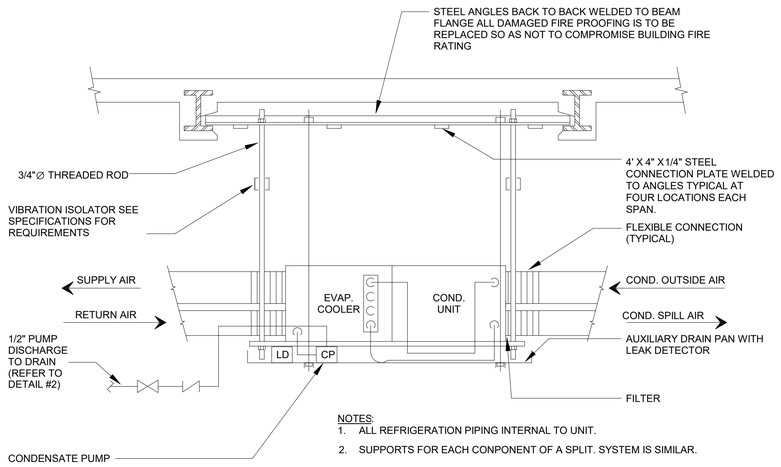

ALASKA COURT SYSTEM

BARROW COURTHOUSE
CLERK COUNTER
REMODEL PERMIT
DOCUMENTS
1250 AGVIK STREET
UTQIAGVIK AK 99723

Project No.:2014341790

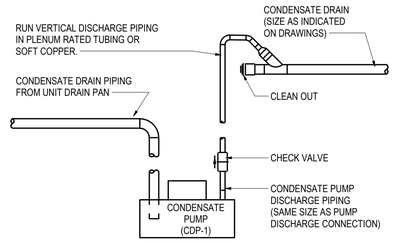
Title
MECHANICAL FLOOR PLAN

Scale: As indicated
Revision: 1
Drawing No. **M-201**



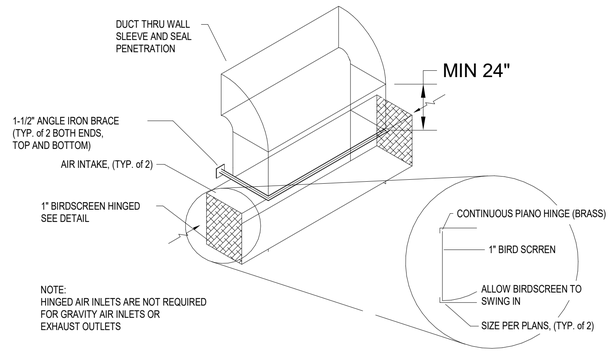

NOTES:
1. ALL REFRIGERATION PIPING INTERNAL TO UNIT.
2. SUPPORTS FOR EACH CONPONENT OF A SPLIT. SYSTEM IS SIMILAR.

## 1 M-501 CEILING HUNG PACKAGED AIR COOLED A.C. UNIT DETAIL
Not to Scale




NOTES:
1. PROVIDE MOUNTING BRACKET FOR ABOVE CEILING APPLICATIONS.
2. PUMP SHALL BE PLENUM RATED WHEN INSTALLED IN A RETURN PLENUM.
3. PROVIDE PUMPS WHERE GRAVITY CONDENSATE PIPING CAN NOT BE USED.

## 2 M-501 CONDENSATE PUMP PIPING DETAIL
Not to Scale




## 3 M-501 ARCTIC TEE
Not to Scale

### AIR CONDITIONING UNIT SCHEDULE

| UNIT IDENTIFICATION | | | AIRFLOW | | | | COOLING COIL | | | | | | PHYSICAL CHARACTERISTICS | | | | ELECTRICAL | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MARK | NUMBER | ROOM(S) SERVED | SUPPLY AIR FLOW (CFM) | SUPPLYFAN ESP (IN-WG) | CONDENSER AIRFLOW CFM | CONDENSER SP (IN-WG) | CAPACITY (BTUH) | EDB (F) | EWB (F) | LDB (F) | LWB (F) | REFRIGERANT TYPE | WEIGHT (LBS) | HEIGHT (IN) | WIDTH (IN) | LENGTH (IN) | OPD | FLA | VOLTS | PHASE | MANUFACTURER | MODEL NUMBER | NOTES |
| AC | 1 | SERVER ROOM | 750 | 0.1 | 950 | 0.5 | 18,000 | 70.0 | 55.8 | 51.4 | 47.6 | R407C | 295 | 20 | 30 | 54 | 25 | 14.2 | 208 | 1 | VERIV | MMD18A-MM2CF1.5: AIR COOLED | 1,2,3. |

NOTES:
1. PROVIDE WITH FILTER RACK.
2. PROVIDE WITH CONDENSER FAN.
3. FACTORY INSTALLED DISCONNEC SWITCH.PROVIDED BY DIVISION 23 AND INSTALLED BY DIV 26.

### GRILLE, REGISTER, DIFFUSER SCHEDULE

| UNIT IDENTIFICATION | | DIFFUSER FACE SIZE (IN) | FLOW RANGE (CFM) | DIFFUSER NECK SIZE (IN) | FLOW PATTERN | MOUNTING TYPE | COLOR | MATERIAL | ACCESSORY | MANUFACTURER | MODEL NUMBER | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MARK | NUMBER | | | | | | | | | | | |
| RA | 1 | 24" x 24" | 750 | SEE PLAN | EGGCRATE | DUCT | --- | ALUMINUM | --- | PRICE | 80 | 3,4,5 |
| SA | 1 | 24" x 24" | 750 | 14"x14" | 4-WAY | LAY-IN | --- | ALUMINUM | --- | PRICE | AMCD | 1,2 |

NOTES:
1. 4 WAY CORE STYLE.
2. COORDINATE WITH ARCHITECTURAL SUBMTTAL, GRILLE AND ACCESSORIES SHALL BE COMPATIBLE WITH SUBMITTED RAISED FLOOR SYSTEM.
3. PROVIDE ALL FRAMES AND ACCESSORIES AS REQUIRED FOR PROPER INSTALLATION.
4. FLEXIBLE DUCTWORK SHALL BE THE SAME SIZE AS THE DIFFUSER NECK OR AN EQUIVALENT ROUND DUCT. FLEXIBLE DUCTWORK SHALL BE SUPPORTED TO PREVENT KINKS OR BENDS.
5. FIELD PAINT PLENUM MATTE BLACK.

### MOTORIZED DAMPERS SCHEDULE

| UNIT IDENTIFICATION | | | LEAKAGE CLASS | BLADE | | SIZE (") | FAIL POSITION | V/PH | MANUFACTURER | MODEL NUMBER | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MARK | NUMBER | SYSTEM SERVED | | CONFIG | TYPE | | | | | | |
| MD | 1 | AC-1 RETURN/EXHUAST AIR | I | OPPOSED | AIRFOIL | 12"x12" | CLOSED | 120/1 | RUSKIN | TED50DC | 1,2,3 |
| MD | 2 | AC-1 OUTSIDE/INTAKE AIR | I | OPPOSED | AIRFOIL | 14"x14" | CLOSED | 120/1 | RUSKIN | TED50DC | 1,2,3 |
| MD | 3 | AC-1 MIXING BOX | I | OPPOSED | AIRFOIL | 12"x12" | CLOSED | 120/1 | RUSKIN | CDED | 1,2,4 |

NOTES:
1. CONTROL CONTRACTOR TO PROVIDE CONTROL. REFER TO SHEET M-002 FOR CONTROL SEQUANCE.
2. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
3. ALUMINUM INSULATED AIRFOIL DAMPER.
4. ALUMINUM AIRFOIL DAMPER.

### CONDENSATE PUMP SCHEDULE

| DESIGNATION | DISCHRAGE FLOWRATE (GPH) | HEAD AT DESIGN FLOWRATE (FT-WC) | SHUT-OFF HEAD (FT-WC) | RESERVOIR CAPACITY (QT) | PHYSICAL SIZE (LxWxH) (IN) | WEIGHT (LBS) | MAX. FLUID TEMP. (°F) | MOTOR HP | ELECTRICAL DATA | | | | | | | MANUFACTURER | MODEL | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | VOLTS | PH | Hz | AMPS | DISCONNECT | | EMER. PWR. (Y/N) | | | |
| | | | | | | | | | | | | | BY E.C. OR MANUF. | ENCL. TYPE | | | | |
| CDP-1 | 175 | 13 | 20 | 1.1 | 13x6x10.4 | 8 | 120 | 1/18 | 115 | 1 | 60 | 2.5 | E.C. | NEMA 1 | N | LITTLE GIANT | VCL-24ULS | SEE NOTES BELOW |

NOTES:
1. PROVIDE THE FOLLOWING FACTORY FEATURES AND OPTIONS:
   1.1. UL 2043 PLENUM RATED, NON-COMBUSTIBLE CONSTRUCTION.
   1.2 STAINLESS STEEL SHAFT.
   1.3. AUXILARY SWITCH.
   1.4. THERMAL OVERLOAD PROTECTOR.
   1.5. HARD-WIRED, NO CORD OR PLUG.
   1.6. FILTER SCREEN.
2. PROVIDE THE FOLLOWING FIELD ACCESSORIES:
   2.1. CHECK VALVE.
   2.2. BALL VALVE.
3. REFER TO PLANS FOR QUANTITIES AND LOCATIONS.

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STATE OF ALASKA
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ALASKA COURT SYSTEM

BARROW COURTHOUSE
CLERK COUNTER
REMODEL PERMIT
DOCUMENTS
1250 AGVIK STREET
UTQIAGVIK AK 99723

Project No.:2014341790

Title
MECHANICAL DETAILS AND SCHEDULES

Scale: 12" = 1'-0"
Revision: 1
Drawing No. **M-501**

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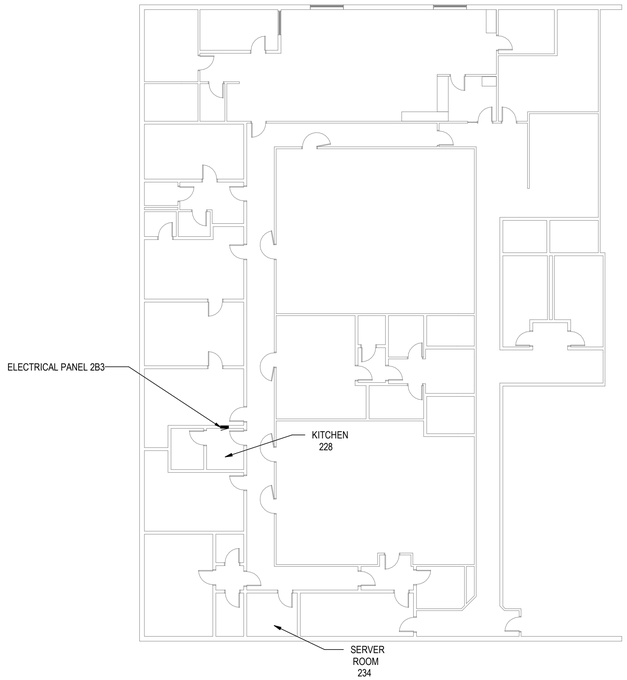
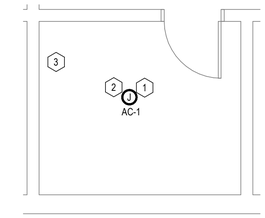
ORIGINAL SHEET - ANSI D



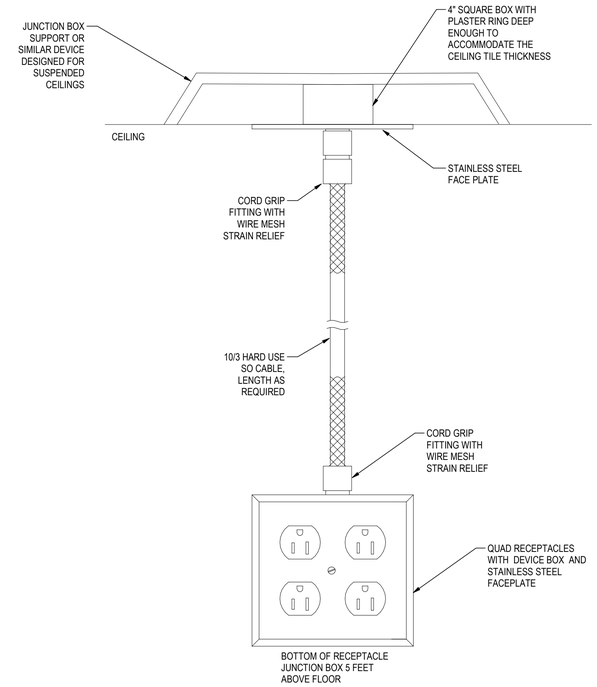

## 1 KEYPLAN
E-101 — 1/16" = 1'-0"

PROJECT NORTH




## 4 SERVER ROOM 234 NEW WORK
E-101 — 1/4" = 1'-0"

PROJECT NORTH




## 2 FLOATING QUAD RECEPTACLE
E-101 — N/A

## GENERAL NOTES

1. FIELD VERIFY ALL EQUIPMENT LOCATIONS. NOTIFY ENGINEER OF DISCREPANCIES BETWEEN THE DOCUMENTS AND FIELD CONDITIONS.
2. COORDINATE DEMOLITION WORK WITH NEW CONSTRUCTION.
3. MEASURE EXISTING LOAD ON EACH PHASE OF PANEL 2B3 DURING NORMAL BUILDING OPERATION PRIOR TO STARTING WORK. PROVIDE THE RESULTS TO THE ENGINEER AND RECORD ON RECORD DRAWINGS.

## (X) SHEET NOTES

1. EQUIPMENT CONNECTION FOR NEW AIR CONDITIONING UNIT (AC-1) SEE MECHANICAL. PROVIDE 2#10,#10G. 1/2"C. FROM AC-1 TO ELECTRICAL PANEL 2B3. EXISTING CONDUIT MAY BE REUSED. PROVIDE NEW 25A/2 CIRCUIT BREAKER IN ELECTRICAL PANEL 2B3 ( SEE PANEL SCHEDULE) AND CONNECT AC-1 TO NEW CIRCUIT BREAKER. AC-1 INCLUDES INTEGRAL DISCONNECT.

2. DISCONNECT EXISTING FAN UNIT FOR REMOVAL. REMOVE CONDUCTORS AND ACCESSIBLE CONDUIT BACK TO UNLESS CONDUIT IS BEING REUSED.

3. LOCATED IN THE CEILING TILE ABOVE AND BEHIND THE EXISTING COMMUNICATION RACK (COORIDNATE EXACT LOCATION WITH COMM RACK), ENSURE THE CEILING TILE CHOSEN DOES NOT INTERFERE WITH ANY LIGHT FIXTURES. USE CADDY 512HD JUNCTION BOX SUPPORT OR SIMILAR DEVICE DESIGNED FOR SUSPENDED CEILINGS. INSTALL THE MOUNTING SUPPORT, CLIP THE CADDY 512HDOR EQUIVALENT SUPPORT ONTO THE T-BAR GRID. SEE DETAIL 2/E-101
FROM THE EXISTING ELECTRICAL PANEL 2B3 LOCATED IN THE KITCHEN, ROUTE A NEW 2#12,12G. IN ½" CONDUIT TO THE CEILING TILE IN ROOM 234. CONNECT THIS CIRCUIT TO THE SO CABLE, ENSURING ALL CONNECTIONS ARE MADE ACCORDING TO THE NATIONAL ELECTRICAL CODE (NEC) STANDARDS.
ENSURE THAT ALL COMPONENTS, INCLUDING THE MOUNTING PLATE, SO CABLE, WIRE MESH GRIPS, AND RECEPTACLE, ARE UL-LISTED AND SUITABLE FOR THE INTENDED APPLICATION.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DOCUMENTS
1250 AGVIK STREET
UTQIAGVIK AK 99723

Project No.:2014341790

Title
ELECTRICAL POWER PLAN

Scale: As indicated

Revision: 1

Drawing No. **E-101**

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## SPECIFICATIONS

**1. GENERAL**

1.1. All work shall conform to the latest edition of the National Electrical Code (NEC) and all state and local codes and code amendments.
1.2. Obtain all permits and pay all fees required by this work.
1.3. Maintain responsibility for the condition of all materials used. If lost, stolen, or damaged, materials shall be replaced at no extra cost to the Owner.
1.4. All work shall be performed by workmen skilled in and regularly employed in the trade. Install all products in a neat and workmanlike manner, per manufacturer's instructions, and in compliance with NECA 1 "Standard Practice for Good Workmanship in Electrical Contracting" as a minimum. Comply with NFPA 70E safety rules as a minimum.
1.5. Perform all cutting, drilling, and patching of walls and floors necessary for a complete installation in coordination with other trades.
1.6. Coordination installation and arrangement of components and equipment with other trades and install to facilitate access for future maintenance, repair, and replacement without interference to adjacent work.
1.7. Remove all debris and surplus material for the premises as progress of the work dictates.
1.8. All electrical equipment shall be listed by a Nationally Recognized Testing Laboratory (NRTL).

**2. PRODUCTS AND SUBMITTALS**

2.1. Submit product data, certificates, and shop drawings to the Engineer. Provide submittals for panelboards, wiring devices, light fixtures, conductors, equipment, motor starters, alarm panels and devices, and telecommunications equipment.
2.2. All products shall be new and listed or labeled by a Nationally Recognized Testing Laboratory (NRTL) for the intended use.
2.3. Match existing where a uniform installation exists unless otherwise indicated or approved.
2.4. Provide similar items from the same manufacturer throughout the project.
2.5. Substitutes for specified items shall not be furnished without written approval unless or equal is indicated.

**3. DEMOLITION**

3.1. Remove all exposed electrical work in demolition areas. Accessible circuits and raceways shall be removed back to the source or terminal equipment unless otherwise indicated or where circuits serve areas to remain.
3.2. Remove conductors from inaccessible conduits. Inaccessible conduits may be abandoned in place. Terminate conduits 2 inches below grade or surface of adjacent construction.
3.3. Owner reserves right of first refusal for salvageable materials and equipment scheduled for demolition. Items selected by Owner shall be moved to a storage area on site designated by the Owner. Unwanted materials and debris shall be removed from the project site.

**4. ELECTRICAL DISTRIBUTION**

4.1. Overcurrent protective devices shall be circuit breaker type, bolt–in design. Circuit breakers shall be molded case, thermal–magnetic design. Install ground–fault circuit interrupter (GFCI) circuit breakers where indicated on the drawings and required by code.

**5. RACEWAYS AND BOXES**

5.1. Conduit types shall be:
5.1.1. Interior exposed below 5'AFF: RMC or IMC.
5.1.2. Interior exposed above 5'AFF: EMT.
5.1.3. Interior concealed: EMT.
5.2. Connections to equipment requiring flexibility or subject to vibration shall be:
5.2.1. Interior, dry locations: FMC or LFMC.
5.2.2. Interior, damp or wet locations: LFMC
5.2.3. Exterior: LFMC.
5.3. Minimum conduit size shall be 1/2" for power and 1/2" for low–voltage and controls.
5.4. Conduit fittings shall be galvanized steel and have nylon insulated throats.
5.5. Conduit fittings for RMC and IMC shall be threaded type.
5.6. Conduit fittings for EMT shall be steel set screw or compression type.
5.7. Penetrations through fire–rated assemblies shall be sealed to maintain the fire rating.
5.8. Conduits passing from heated to cold spaces shall be thermally sealed to prevent air and moisture transfer. Conduit shall be sealed with removable duct sealant at an accessible location.
5.9. Conduits shall be cut square and ends reamed to remove burrs.
5.10. Maximum conduit bend shall be 90 degrees, with not more than three 90 degree bends or equivalent between pull points.
5.11. Junction and device boxes shall be suitable for use at the installed location and arranged to accept the intended device or equipment. Junction and device boxes shall be:
5.11.1. Exterior: Galvanized cast iron or cast aluminum with threaded conduit hubs and gasketed weatherproof covers.
5.11.2. Interior exposed below 5'AFF: Galvanized cast iron or cast aluminum with threaded conduit hubs.
5.11.3. Interior exposed above 5'AFF: Galvanized sheet steel.
5.11.4. Interior concealed: Galvanized sheet steel.
5.12. The entire conduit system shall be mechanically and electrically continous from the source to all devices and grounded in accordance with the NEC.
5.13. Install conduit and devices concealed and flush in finished areas. Conduit and devices may be installed exposed in unfinished areas, utility and mechanical rooms, and as indicated on the drawings.

**6. CONDUCTORS AND CABLES**

6.1. Conductors shall be copper, solid for 10awg and smaller, stranded for 8awg and larger. Insulation shall be:
6.1.1. Exterior: XHHW.
6.1.2. Interior, heated: THHN–THWN or XHHW.
6.1.3. Interior, unheated: XHHW.
6.2. Minimum conductor sizes shall be 12awg for power and 18awg for low–voltage and controls. Circuit conductors shall be increased in size for voltage drop based on the circuit length, 12awg up to 100', 10awg up to 200', 8awg over 200'. Increase size of conduit as required for larger conductor sizes.
6.3. Type MC cable may be used for branch circuit wiring between devices or where fishing into existing walls. Homeruns shall be individual conductors in conduit. MC cable shall have a galvanized steel sheath and include an equipment grounding conductor.
6.4. Connectors and splices shall be factory–fabricated twist–on, compression, or bolted, with the ampacity, rating, type, and material appropriate for the application. Push–in spring–type connectors are not acceptable.
6.5. Provide a separate green insulated equipment grounding conductor in all power and control circuits. Increase size of grounding conductor proportionally as required where power conductors are oversized for voltage drop.

**7. IDENTIFICATION**

7.1. Color code secondary phase conductors for feeders and branch circuits. Coloring shall be factory applied for small conductors. Phase conductors 8awg and larger and neutral and ground conductors 4awg and larger may be field applied using colored pressure–sensitive plastic tape. Conductors shall be colored:

208/120–volt

| | |
|---|---|
| Phase A: | Black |
| Phase B: | Red |
| Phase C: | Blue |
| Neutral: | White |
| Ground: | Green |

7.2. Power circuits shall be identified in junction and device boxes, and panelboards with the panel and circuit number. Identification shall be by:
7.2.1. Exterior: Pre–printed wraparound heat–shrink labels or plastic tags with permanent printing or marker, secured to cables.
7.2.2. Interior: Pre–printed wraparound adhesive labels.
7.3. Device covers shall be labeled with the panel and circuit number. Labels shall be machine–printed, pressure–sensitive adhesive labels, black lettering on a white background.

**8. PROJECT COMPLETION / TESTING AND ACCEPTANCE**

8.1. Upon project completion, clean all electrical equipment and fixtures and replace or repair any items scratched, dented, or otherwise disfigured.
8.2. Test all systems to assure proper operation. Test modified portions of existing systems unless otherwise directed.
8.3. Notify Owner of test schedule and provide written test reports. Include deficiencies identified and actions taken to obtain acceptable results.
8.4. Maintain red–lined as–built record drawings as project progresses and deliver to Owner after final inspection and acceptance.

## (E) PANEL 2B3

| CKT | LOAD | BRANCH BKR | BRANCH VA | CONNECTED KVA A | CONNECTED KVA B | CONNECTED KVA C | BRANCH VA | BRANCH BKR | LOAD | CKT |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | *LIGHTS RM. 234,232V,232AT* | *20/1* | | 0.0 | | | | *20/1* | *RECEPTS RM 224* | 2 |
| 3 | *LIGHTS RM. 206* | *20/1* | | | 0.0 | | | *20/1* | *RECEPTS RM 224* | 4 |
| 5 | *LIGHTS RM. 232* | *20/1* | | | | 0.0 | | *20/1* | *RECEPTS RM 226* | 6 |
| 7 | *LIGHTS RM. 228, 228T, 230* | *20/1* | | 0.0 | | | | *20/1* | *RECEPTS RM 226* | 8 |
| 9 | *LIGHTS RM. 226* | *20/1* | | | 0.0 | | | *20/1* | *RECEPTS RM 228 COUNTER* | 10 |
| 11 | *LIGHTS RM. 236* | *20/1* | | | | 0.0 | | *20/1* | *RECEPTS RM 230, 2287* | 12 |
| 13 | *LIGHTS RM. 209* | *20/1* | | 0.0 | | | | *20/1* | *RECEPTS RM 230* | 14 |
| 15 | *LIGHTS RM. 209* | *20/1* | | | 0.0 | | | *20/1* | *RECEPTS RM 232V, 232 AT* | 16 |
| 17 | *LIGHTS RM. 209* | *20/1* | | | | 0.0 | | *20/1* | *RECEPTS RM 232 COUNTER* | 18 |
| 19 | *LIGHTS RM. 209* | *20/1* | | 0.0 | | | | *20/1* | *RECEPTS RM 232* | 20 |
| 21 | *SPARE* | *20/1* | | | 0.0 | | | *20/1* | *RECEPTS RM 232, 232 AT* | 22 |
| 23 | *HOT WATER DISPENSER* | *20/1* | | | | 0.0 | | *20/1* | *RECEPTS RM 234* | 24 |
| 25 | ** **NEW AC-1** | **25/2** | 1200 | 1.2 | | | | *20/1* | *RECEPTS RM 206V, 236, 209* | 26 |
| 27 | | | 1200 | | 1.2 | | | *20/1* | *RECEPTS RM 209* | 28 |
| 29 | *SPARE* | *20/1* | | | | 0.0 | | *20/1* | *RECEPTS RM 209* | 30 |
| 31 | *RECEPT COM 234* | *20/1* | | 0.0 | | | | *20/1* | *RECEPTS RM 209* | 32 |
| 33 | *RECEPT COM 234* | *20/1* | | | 0.0 | | | *20/1* | *RECEPTS RM 209* | 34 |
| 35 | **RECEPT (HANGING) COM 234** | *20/1* | 360 | | | 0.4 | | *20/1* | *RECEPTS RM 209* | 36 |
| 37 | *SPARE* | *20/1* | | 0.0 | | | | *20/1* | *RECEPTS RM 209* | 38 |
| 39 | *SPARE* | *20/1* | | | 0.0 | | | *20/1* | *RECEPTS RM 209* | 40 |
| 41 | *SPARE* | *20/1* | | | | 0.0 | | *20/1* | *RECEPTS RM 209* | 42 |
| | CONNECTED LOAD | 2.8 KVA | | 1.2 | 1.2 | 0.4 | | | PANEL SPECIFICATIONS | |
| | | 8 AMPS | | 10 | 10 | 3 | | | MAINS RATING AMPS - 225 | |
| | NEC DEMAND | 3.4 KVA | | | | | | | MAIN CIRCUIT BREAKER AMPERES - MLO | |
| | | 9 AMPS | | | | | | | CAPACITY ONE-POLE CIRCUITS - 42 | |
| | | | | | | | | | SYSTEM VOLTAGE - 208Y/120 | |
| | | | | | | | | | PHASE, NO. OF WIRES - 3 PH, 4 W | |
| | | | | | | | | | AIC RATING - 22,000 | |
| | | | | | | | | | MOUNTING - RECESSED | |
| | | | | | | | | | LOCATION - RM. 228 | |

PANEL NOTES
** - DEMO EXISTING 20A/1 CIRCUIT BREAKERS IN SPACE 25 AND 27. PROVIDE NEW 25A/2 CIRCUIT BREAKER IN SPACES 25 AND 27. CIRCUIT 25 CURRENTLY SERVES FAN UNIT BEING REMOVED.

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Consultant

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05/28/2025
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM

BARROW COURTHOUSE
CLERK COUNTER
REMODEL PERMIT
DOCUMENTS
1250 AGVIK STREET
UTQIAGVIK AK 99723

Project No.:2014341790

Title
ELECTRICAL SPECIFICATIONS AND PANEL SCHEDULE

Scale: 12" = 1'-0"
Revision: 1
Drawing No. **E-102**

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5/27/2025 3:11:10 PM
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