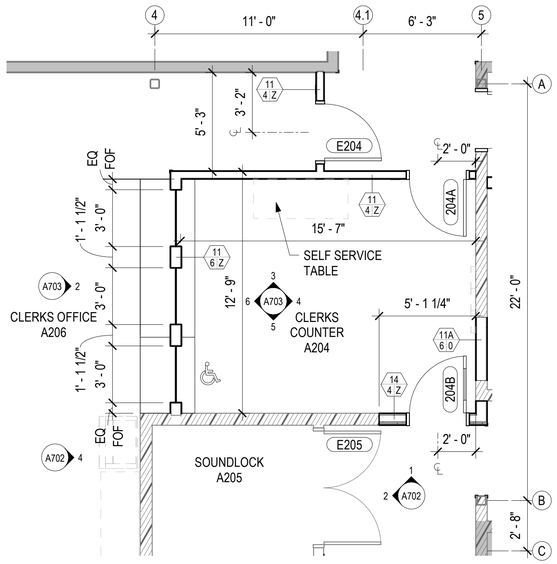
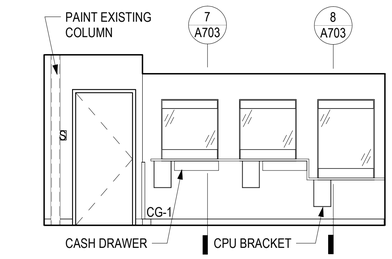
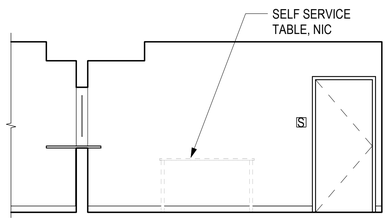


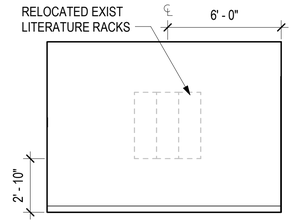
1 A703 CLERKS COUNTER - ENLARGED PLAN
1/4" = 1'-0"



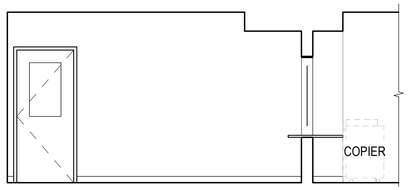
2 A703 A206 CLERKS OFFICE - E
1/4" = 1'-0"



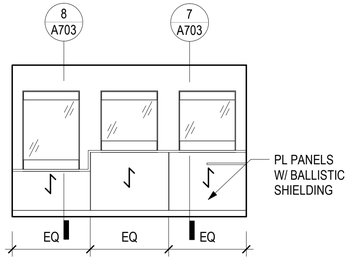
3 A703 CLERKS COUNTER - N
1/4" = 1'-0"



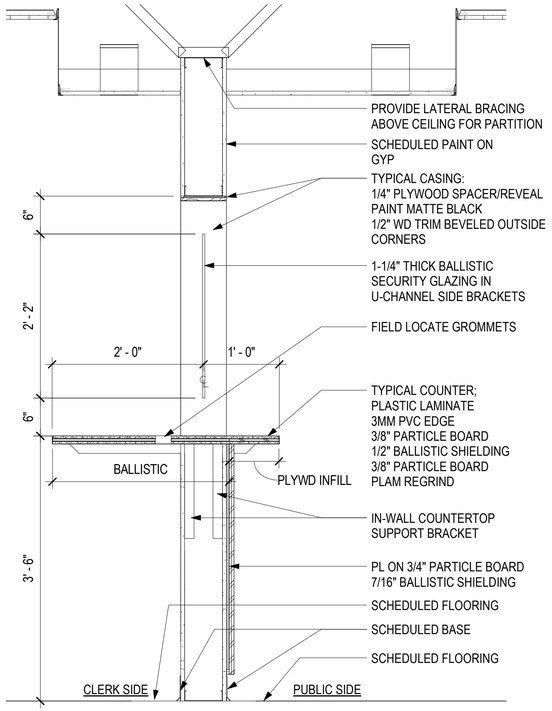
4 A703 CLERKS COUNTER - E
1/4" = 1'-0"



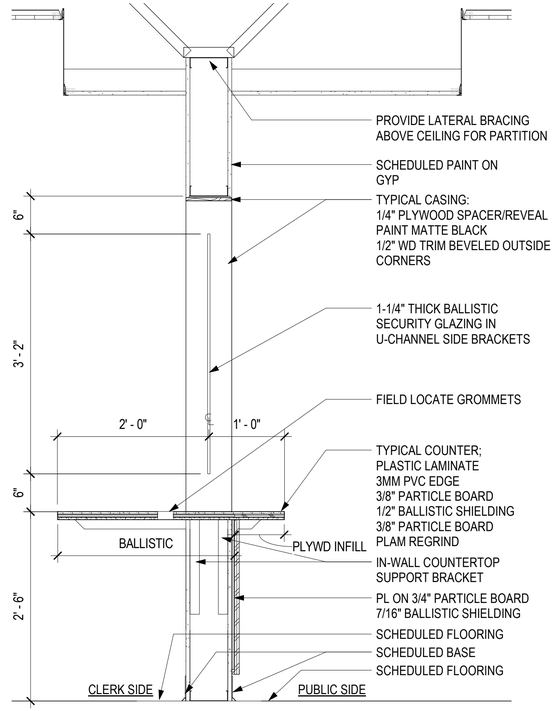
5 A703 CLERKS COUNTER - S
1/4" = 1'-0"



6 A703 CLERKS COUNTER - W
1/4" = 1'-0"

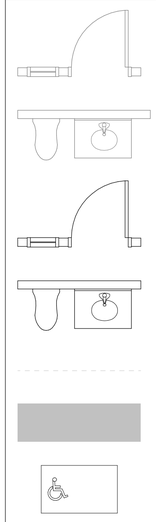


7 A703 CLERK TRANSACTION
1" = 1'-0"



8 A703 CLERK ADA COUNTER
1" = 1'-0"

RENOVATION ENLARGED PLAN LEGEND



GENERAL INTERIOR ELEVATION NOTES

A. REFER TO SHEET A913 FOR FINISH LEGEND.
B. REFER TO SHEET A701 FOR TYPICAL MOUNTING HEIGHTS.
C. REFER TO SHEET A831 FOR CASEWORK LEGEND AND DETAILS.
D. PAINT EXPOSED METAL DECK, STRUCTURE, DUCTS, AND CONDUIT AS SCHEDULED.

TRUE NORTH

PLAN NORTH

BETTISWORTH NORTH
CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA 49TH
Roy L. Rountree
No. A-8259
REGISTERED PROFESSIONAL ARCHITECT
2023-05-01

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

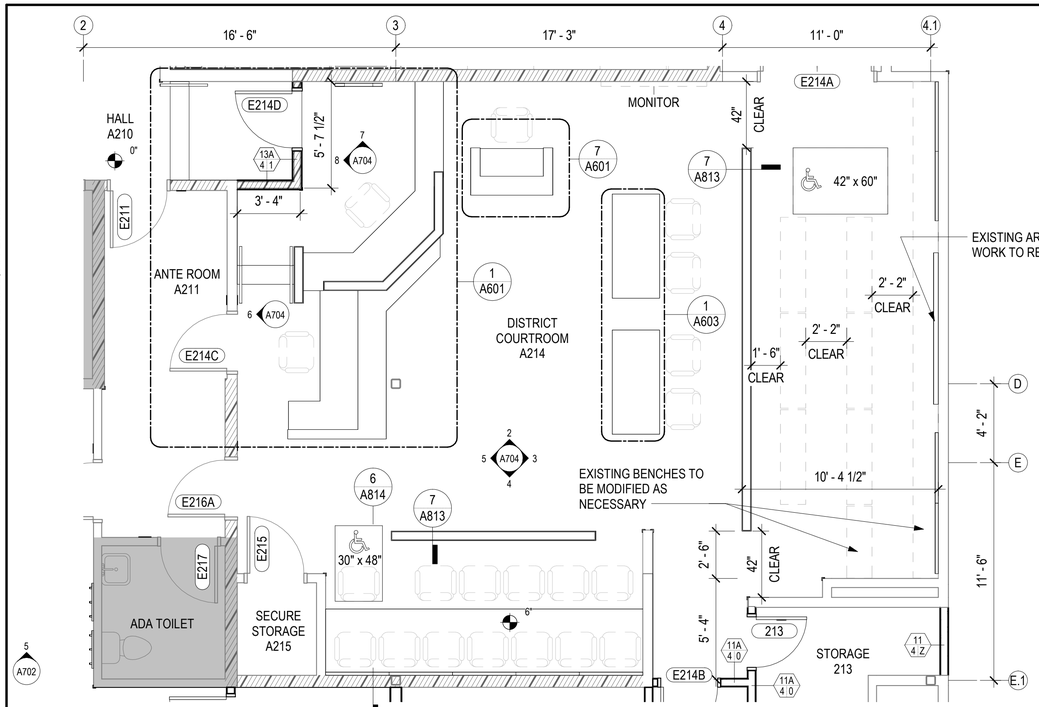
CONSULTANT:

PROJECT NO:	20-102
DATE:	2023-05-01
DRAWN BY:	GB
CHECKED BY:	DN

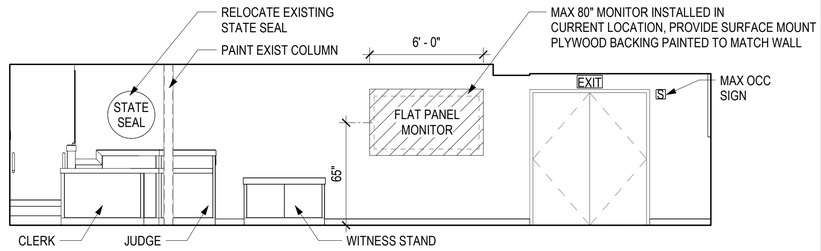
REVISION	DESCRIPTION	DATE

CLERKS COUNTER - ENLARGED PLAN & ELEVATIONS

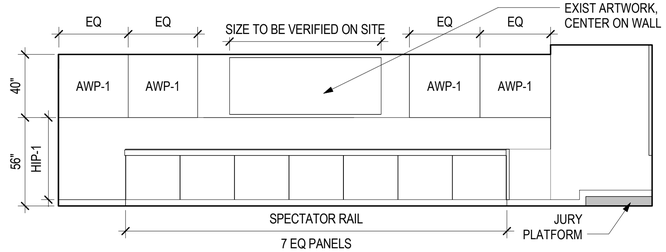
A703



1 A704 DISTRICT COURTROOM - ENLARGED PLAN
1/4" = 1'-0"

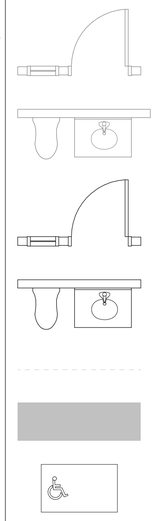


2 A704 DISTRICT COURTROOM - N
1/4" = 1'-0"



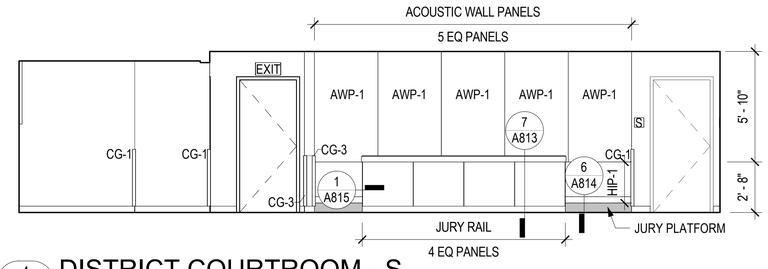
3 A704 DISTRICT COURTROOM - E
1/4" = 1'-0"

RENOVATION ENLARGED PLAN LEGEND

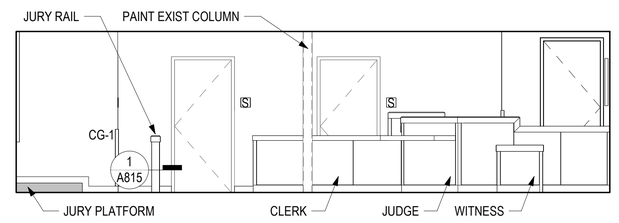


GENERAL INTERIOR ELEVATION NOTES

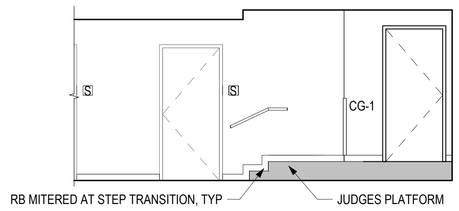
A. REFER TO SHEET A913 FOR FINISH LEGEND.
B. REFER TO SHEET A701 FOR TYPICAL MOUNTING HEIGHTS.
C. REFER TO SHEET A831 FOR CASEWORK LEGEND AND DETAILS.
D. PAINT EXPOSED METAL DECK, STRUCTURE, DUCTS, AND CONDUIT AS SCHEDULED.



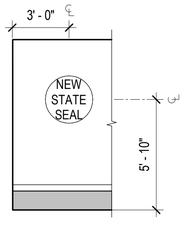
4 A704 DISTRICT COURTROOM - S
1/4" = 1'-0"



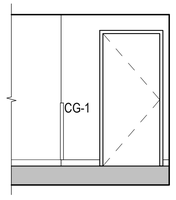
5 A704 DISTRICT COURTROOM - W
1/4" = 1'-0"



6 A704 DISTRICT COURTROOM - W II
1/4" = 1'-0"



7 A704 STATE SEAL - DISTRICT CR
1/4" = 1'-0"



8 A704 DISTRICT COURTROOM - W III
1/4" = 1'-0"

TRUE NORTH

PLAN NORTH

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

PROJECT NO:	20-102
DATE:	2023-05-01
DRAWN BY:	GB
CHECKED BY:	DN

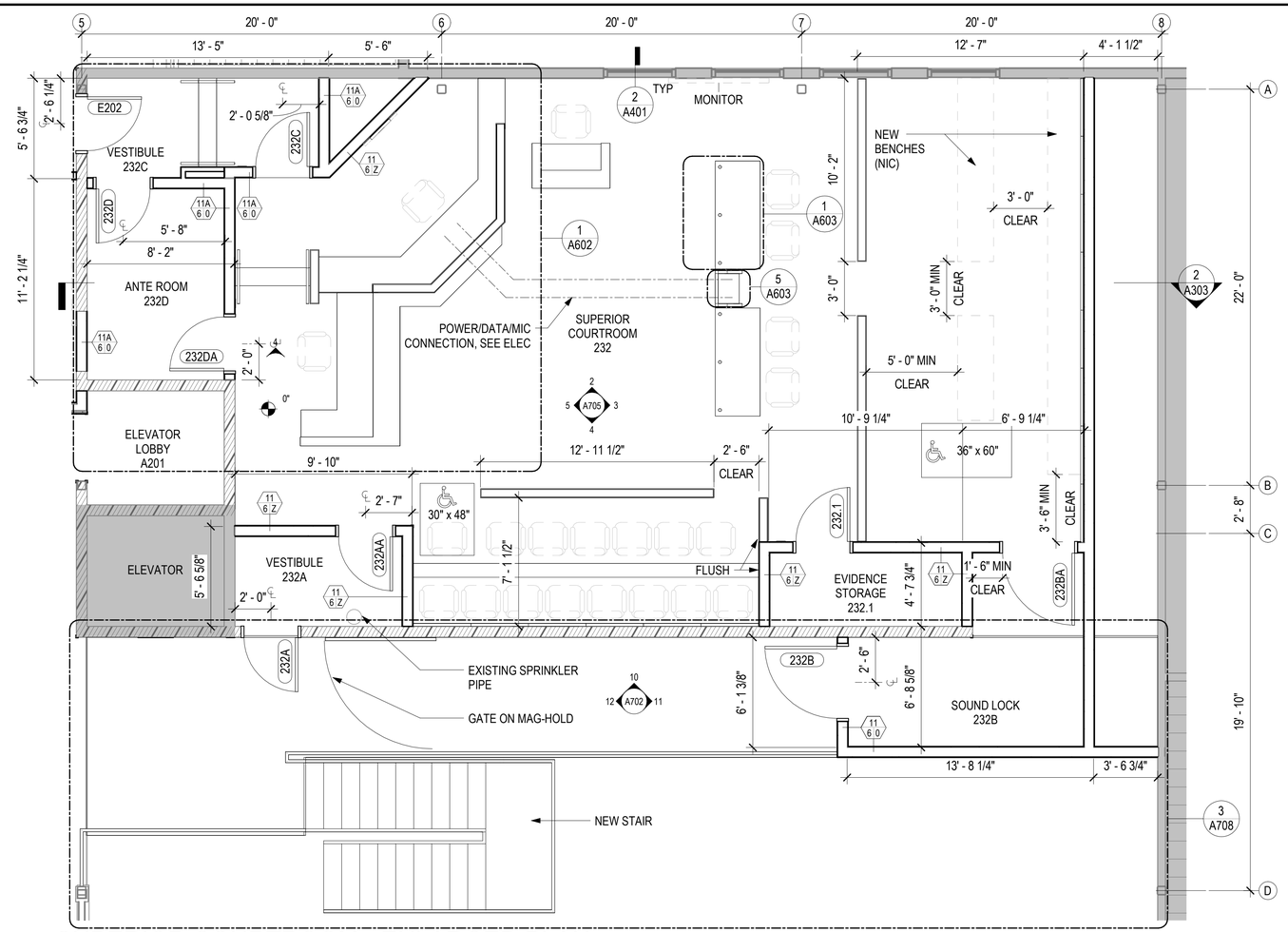
REVISION	DESCRIPTION	DATE

DISTRICT COURTROOM - ENLARGED PLAN & ELEVATIONS

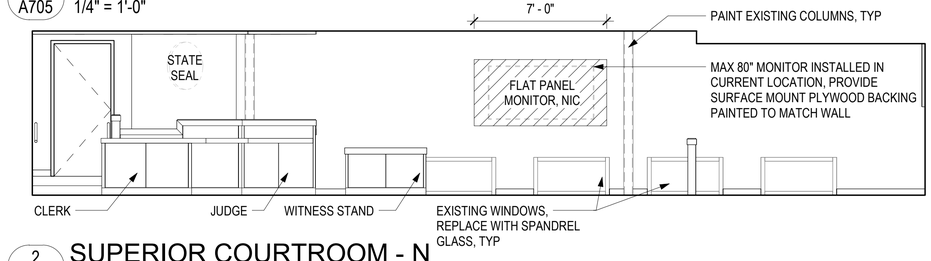
A704

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED. AFFECTING ALL LABELED SCALES

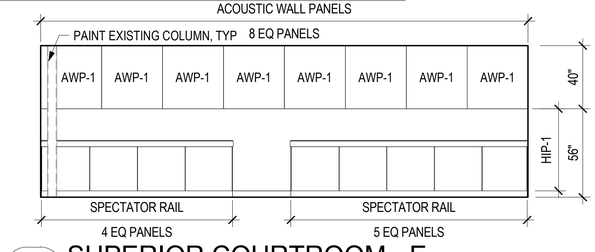
1" ACTUAL



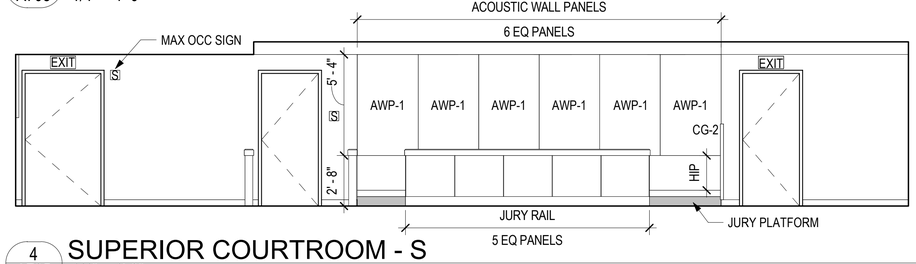
1 A705 SUPERIOR COURTROOM - ENLARGED PLAN
1/4" = 1'-0"



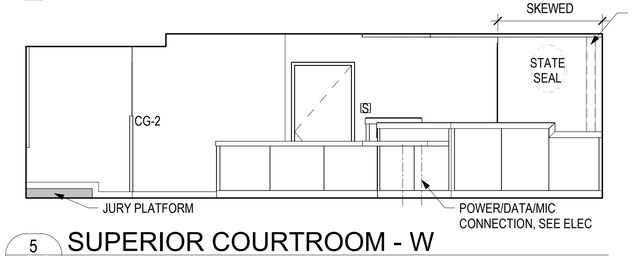
2 A705 SUPERIOR COURTROOM - N
1/4" = 1'-0"



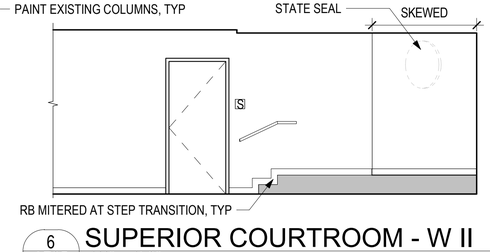
3 A705 SUPERIOR COURTROOM - E
1/4" = 1'-0"



4 A705 SUPERIOR COURTROOM - S
1/4" = 1'-0"



5 A705 SUPERIOR COURTROOM - W
1/4" = 1'-0"



6 A705 SUPERIOR COURTROOM - W II
1/4" = 1'-0"

PLAN NORTH

RENOVATION ENLARGED PLAN LEGEND

- EXISTING ELEMENTS
- NEW CONSTRUCTION ELEMENTS
- NIC
- NOT IN SCOPE
- ADA CLEARANCE

GENERAL INTERIOR ELEVATION NOTES

A. REFER TO SHEET A913 FOR FINISH LEGEND.
B. REFER TO SHEET A701 FOR TYPICAL MOUNTING HEIGHTS.
C. REFER TO SHEET A831 FOR CASEWORK LEGEND AND DETAILS.
D. PAINT EXPOSED METAL DECK, STRUCTURE, DUCTS, AND CONDUIT AS SCHEDULED.

BETTISWORTH NORTH

STATE OF ALASKA 49TH
Roy L. Rountree
No. A-8259
REGISTERED PROFESSIONAL ARCHITECT
2023-05-01

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

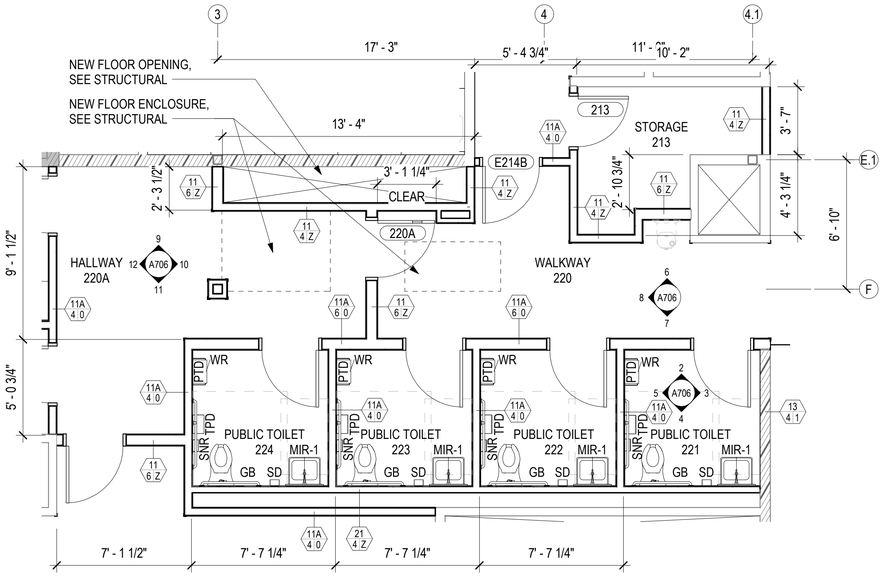
CONSULTANT:

PROJECT NO:	20-102
DATE:	2023-05-01
DRAWN BY:	GB
CHECKED BY:	DN

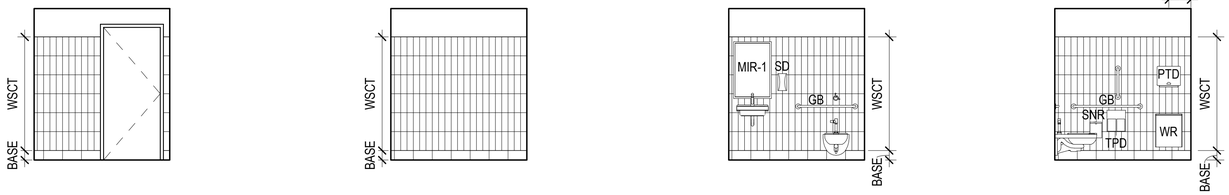
REVISION	DESCRIPTION	DATE

SUPERIOR COURTROOM - ENLARGED PLAN & ELEVATIONS

A705



1 / A706 PUBLIC TOILET, HALLWAY, WALKWAY & STORAGE - ENLARGED PLAN
1/4" = 1'-0"

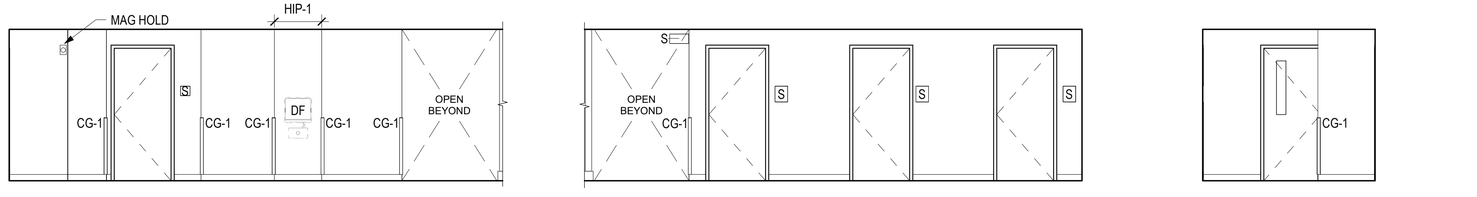


2 / A706 PUBLIC TOILET - N
1/4" = 1'-0"

3 / A706 PUBLIC TOILET - E
1/4" = 1'-0"

4 / A706 PUBLIC TOILET - S
1/4" = 1'-0"

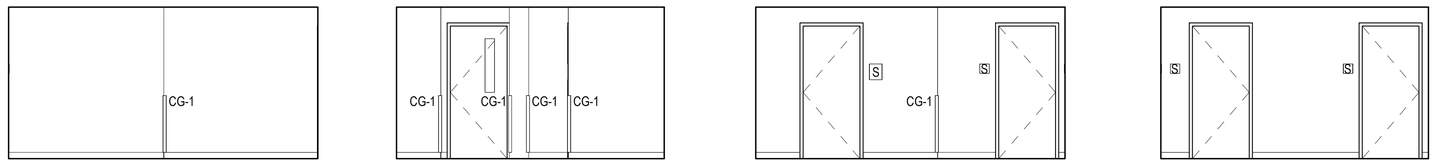
5 / A706 PUBLIC TOILET - W
1/4" = 1'-0"



6 / A706 220 WALKWAY - N
1/4" = 1'-0"

7 / A706 220 WALKWAY - S
1/4" = 1'-0"

8 / A706 220 WALKWAY - W
1/4" = 1'-0"



9 / A706 220A HALLWAY - N
1/4" = 1'-0"

10 / A706 220A HALLWAY - E
1/4" = 1'-0"

11 / A706 220A HALLWAY - S
1/4" = 1'-0"

12 / A706 220A HALLWAY - W
1/4" = 1'-0"

RENOVATION ENLARGED PLAN LEGEND

EXISTING ELEMENTS

NEW CONSTRUCTION ELEMENTS

NIC

NOT IN SCOPE

ADA CLEARANCE

GENERAL INTERIOR ELEVATION NOTES

A. REFER TO SHEET A913 FOR FINISH LEGEND.
B. REFER TO SHEET A701 FOR TYPICAL MOUNTING HEIGHTS.
C. REFER TO SHEET A831 FOR CASEWORK LEGEND AND DETAILS.
D. PAINT EXPOSED METAL DECK, STRUCTURE, DUCTS, AND CONDUIT AS SCHEDULED.

TRUE NORTH

PLAN NORTH

BETTISWORTH NORTH
CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA 49TH
Roy L. Rountree No. A-8259
REGISTERED PROFESSIONAL ARCHITECT
2023-05-01

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

PROJECT NO:	20-102
DATE:	2023-05-01
DRAWN BY:	GB
CHECKED BY:	DN

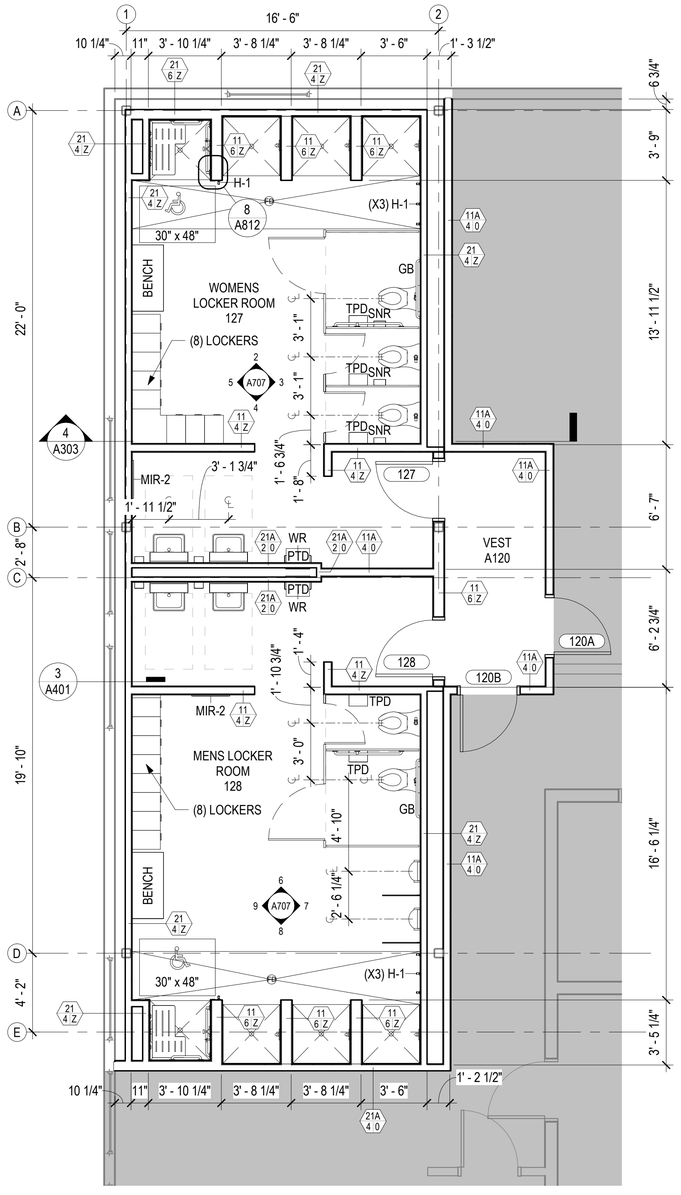
REVISION	DESCRIPTION	DATE

PUBLIC TOILET, HALLWAY & WALKWAY - ENLARGED PLANS & ELEVATIONS

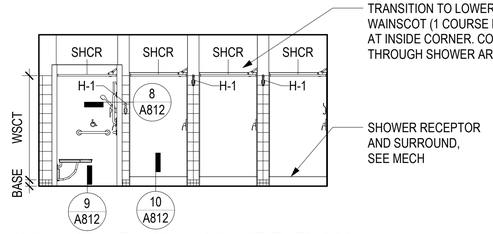
A706

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED. AFFECTING ALL LABELED SCALES

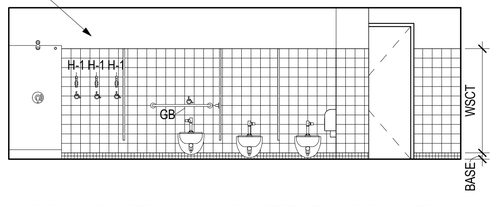
1" ACTUAL



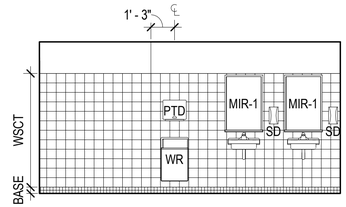
1 A707 WOMENS AND MENS LOCKER ROOMS - ENLARGED PLAN
1/4" = 1'-0"



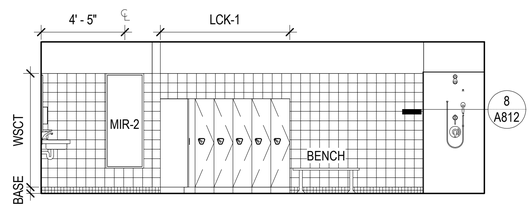
2 A707 127 WOMENS LOCKER ROOM - N
1/4" = 1'-0"



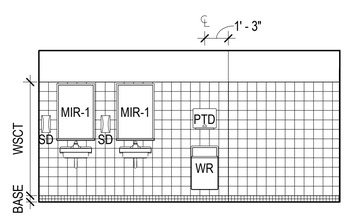
3 A707 127 WOMENS LOCKER ROOM - E
1/4" = 1'-0"



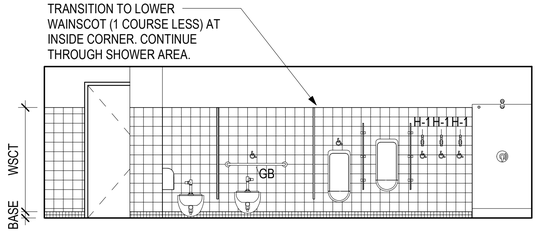
4 A707 127 WOMENS LOCKER ROOM - S
1/4" = 1'-0"



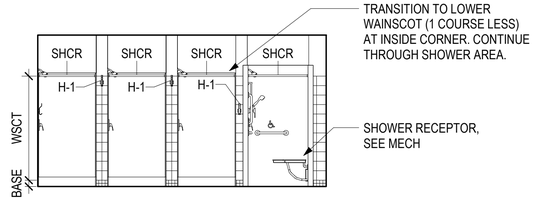
5 A707 127 WOMENS LOCKER ROOM - W
1/4" = 1'-0"



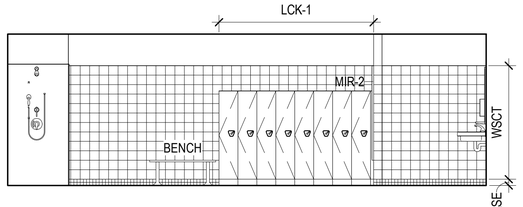
6 A707 128 MENS LOCKER ROOM - N
1/4" = 1'-0"



7 A707 128 MENS LOCKER ROOM - E
1/4" = 1'-0"



8 A707 128 MENS LOCKER ROOM - S
1/4" = 1'-0"



9 A707 128 MENS LOCKER ROOM - W
1/4" = 1'-0"

TRUE NORTH

PLAN NORTH

RENOVATION ENLARGED PLAN LEGEND

- EXISTING ELEMENTS
- NEW CONSTRUCTION ELEMENTS
- NIC
- NOT IN SCOPE
- ADA CLEARANCE

GENERAL INTERIOR ELEVATION NOTES

A. REFER TO SHEET A913 FOR FINISH LEGEND.
B. REFER TO SHEET A701 FOR TYPICAL MOUNTING HEIGHTS.
C. REFER TO SHEET A831 FOR CASEWORK LEGEND AND DETAILS.
D. PAINT EXPOSED METAL DECK, STRUCTURE, DUCTS, AND CONDUIT AS SCHEDULED.

BETTISWORTH NORTH

STATE OF ALASKA 49TH
Roy L. Rountree
No. A-8259
REGISTERED PROFESSIONAL ARCHITECT
2023-05-01

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

PROJECT NO:	20-102
DATE:	2023-05-01
DRAWN BY:	GB
CHECKED BY:	DN

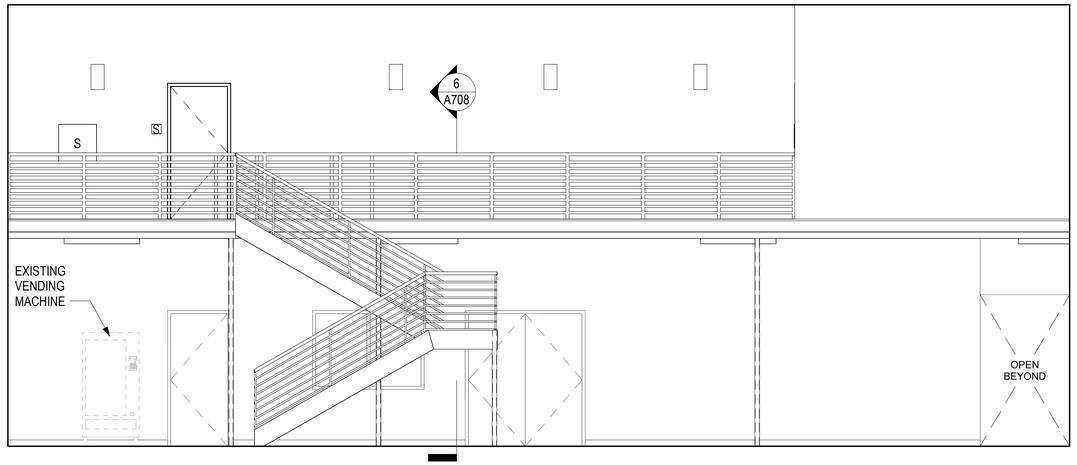
REVISION	DESCRIPTION	DATE

WOMENS & MENS LOCKER ROOMS - ENLARGED PLANS & ELEVATIONS

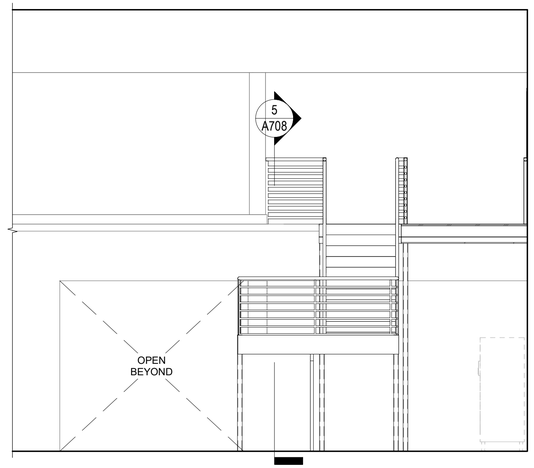
A707

Autodesk Docs://20-102 ACS Kotzebue CH/20-102 ACS KOTZ CH-A-Model.rvt

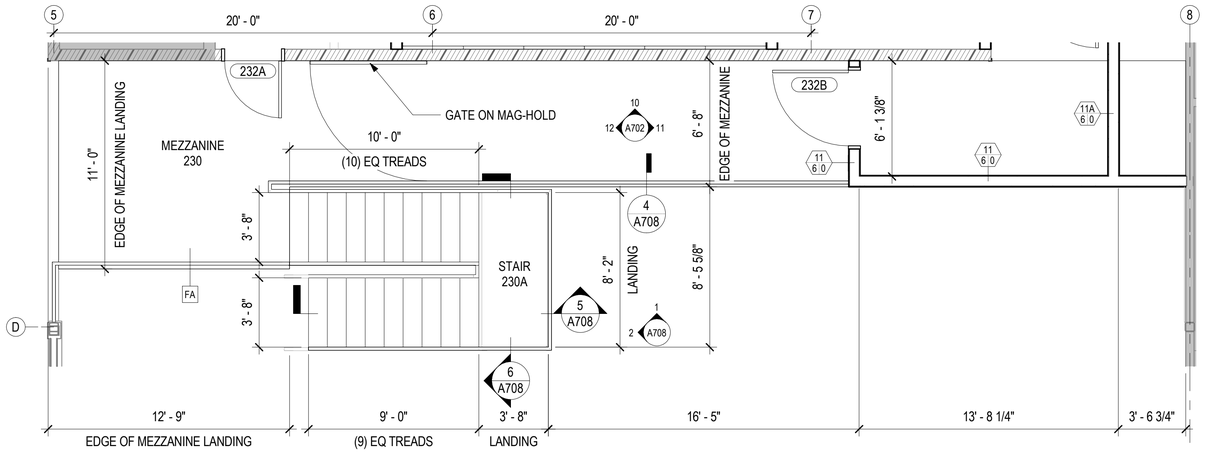
5/2/2023 9:42:23 AM



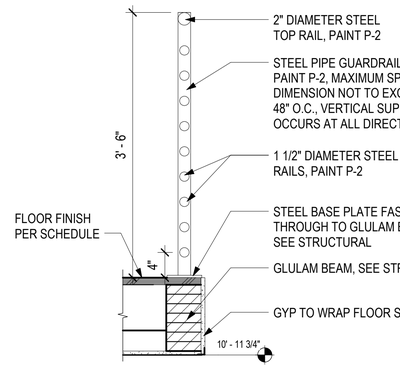
1 A708 NG ASSEMBLY AREA - N
1/4" = 1'-0"



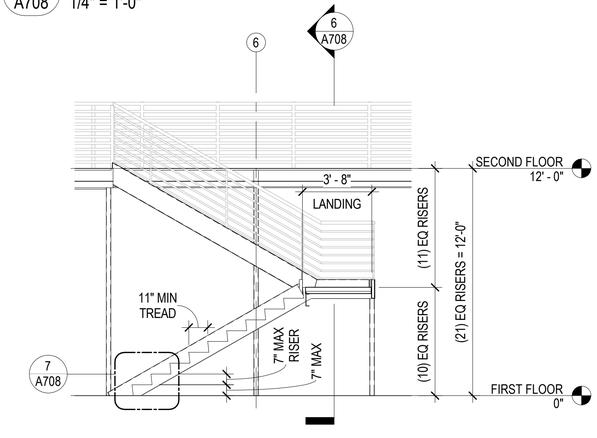
2 A708 NG ASSEMBLY AREA - W
1/4" = 1'-0"



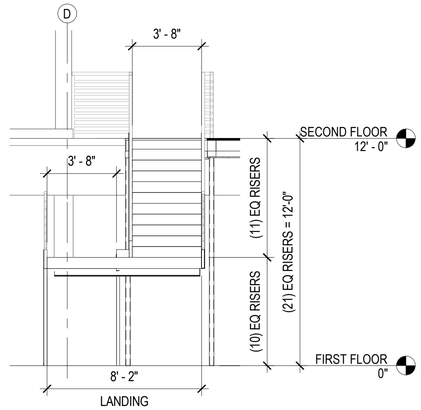
3 A708 MEZZANINE & STAIR @ NG ASSEMBLY AREA
1/4" = 1'-0"



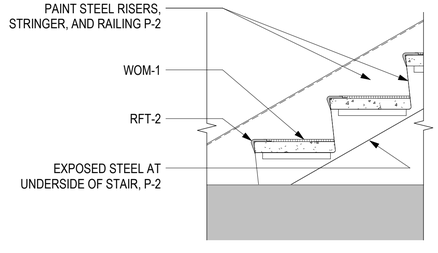
4 A708 MEZZANINE GUARDRAIL
1" = 1'-0"



5 A708 MEZZANINE STAIR - SECTION 1
1/4" = 1'-0"

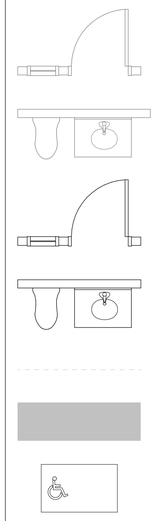


6 A708 MEZZANINE STAIR - SECTION 2
1/4" = 1'-0"



7 A708 MEZZANINE STAIR DETAIL
1" = 1'-0"

RENOVATION ENLARGED PLAN LEGEND



EXISTING ELEMENTS

NEW CONSTRUCTION ELEMENTS

NIC

NOT IN SCOPE

ADA CLEARANCE

GENERAL INTERIOR ELEVATION NOTES

A. REFER TO SHEET A913 FOR FINISH LEGEND.
B. REFER TO SHEET A701 FOR TYPICAL MOUNTING HEIGHTS.
C. REFER TO SHEET A831 FOR CASEWORK LEGEND AND DETAILS.
D. PAINT EXPOSED METAL DECK, STRUCTURE, DUCTS, AND CONDUIT AS SCHEDULED.

TRUE NORTH

PLAN NORTH

BETTISWORTH NORTH
CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

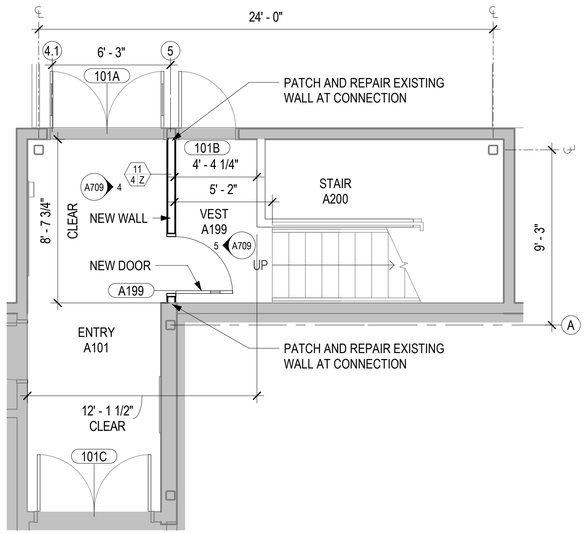
CONSULTANT:

PROJECT NO:	20-102
DATE:	2023-05-01
DRAWN BY:	GB
CHECKED BY:	DN, MG

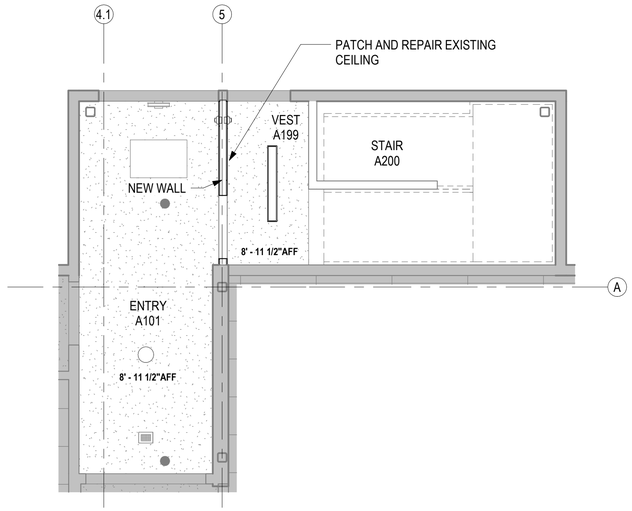
REVISION	DESCRIPTION	DATE

MEZZANINE - ENLARGED STAIR PLAN, SECTIONS & DETAILS

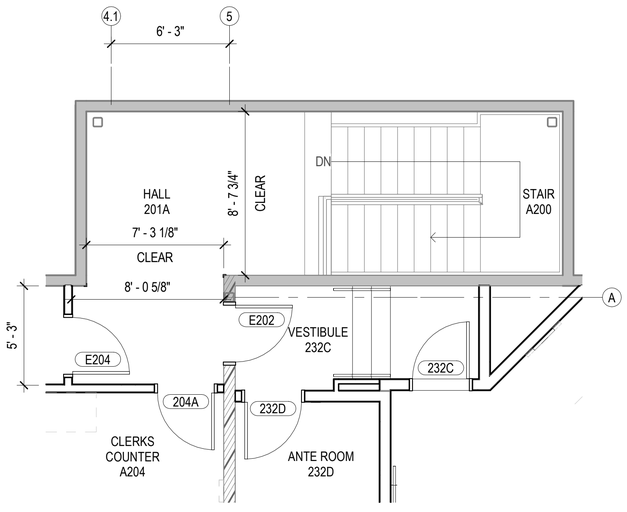
A708



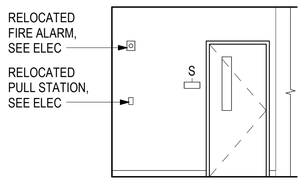
1 A709 ENTRY STAIR FIRST FLOOR - ENLARGED PLAN
1/4" = 1'-0"



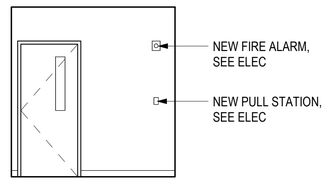
2 A709 ENTRY STAIR FIRST FLOOR - ENLARGED RCP
1/4" = 1'-0"



3 A709 ENTRY STAIR SECOND FLOOR - ENLARGED PLAN
1/4" = 1'-0"

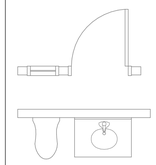


4 A709 A101 ENTRY - E
1/4" = 1'-0"

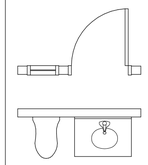


5 A709 A199 VEST - W
1/4" = 1'-0"

RENOVATION ENLARGED PLAN LEGEND



EXISTING ELEMENTS



NEW CONSTRUCTION ELEMENTS

NIC

NOT IN SCOPE

ADA CLEARANCE

GENERAL INTERIOR ELEVATION NOTES

A. REFER TO SHEET A913 FOR FINISH LEGEND.
B. REFER TO SHEET A701 FOR TYPICAL MOUNTING HEIGHTS.
C. REFER TO SHEET A831 FOR CASEWORK LEGEND AND DETAILS.
D. PAINT EXPOSED METAL DECK, STRUCTURE, DUCTS, AND CONDUIT AS SCHEDULED.

TRUE NORTH

PLAN NORTH

BETTISWORTH NORTH
CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

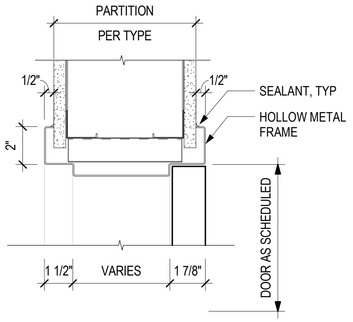
CONSULTANT:

PROJECT NO:	20-102
DATE:	2023-05-01
DRAWN BY:	GB
CHECKED BY:	DN

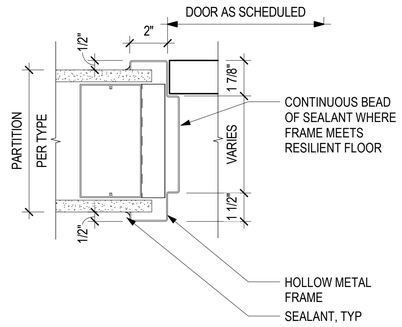
REVISION	DESCRIPTION	DATE

ENTRY STAIR - ENLARGED PLANS, RCP & ELEVATIONS

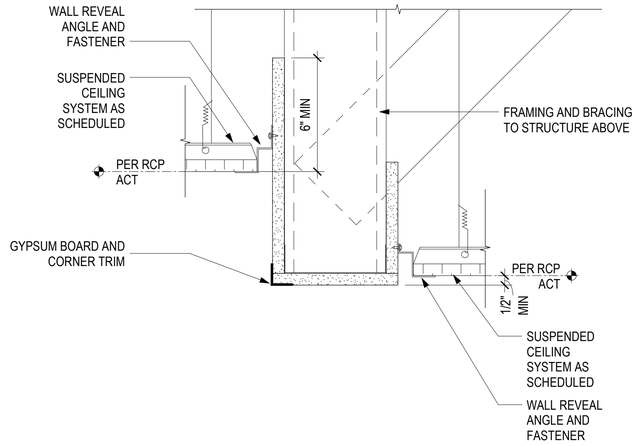
A709



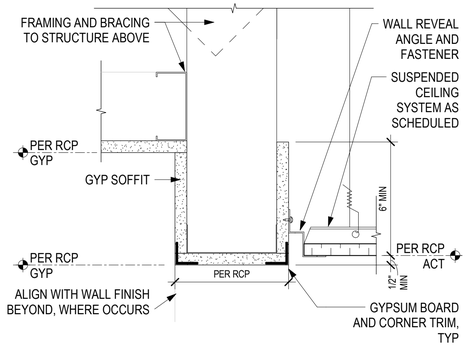
1 A811 HM DOOR - HEAD
3" = 1'-0"



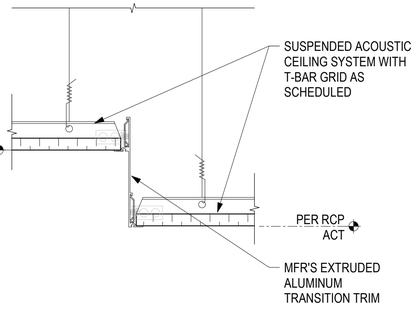
2 A811 HM DOOR - JAMB
3" = 1'-0"



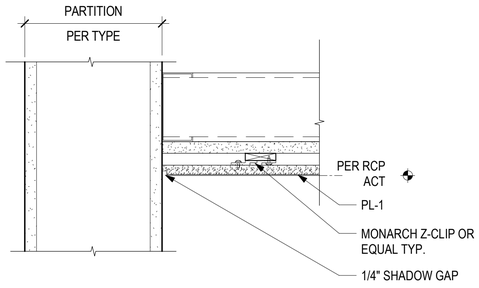
3 A811 CEILING - ACT TO ACT AT HEADER
3" = 1'-0"



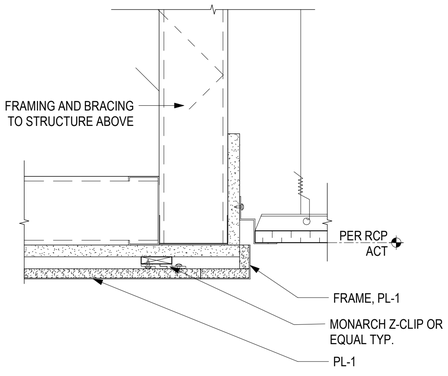
4 A811 CEILING - GYP TO HEADER
3" = 1'-0"



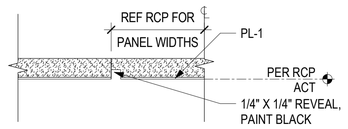
5 A811 TRANSITION - ACT TO ACT
3" = 1'-0"



6 A811 PLAM SOFFIT @ WALL
3" = 1'-0"



7 A811 PLAM SOFFIT
3" = 1'-0"



8 A811 PLAM SOFFIT REVEAL
6" = 1'-0"

BETTISWORTH NORTH
CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA 49TH
Roy L. Rountree
No. A-8259
REGISTERED PROFESSIONAL ARCHITECT
2023-05-01

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

PROJECT NO:	20-102
DATE:	2023-05-01
DRAWN BY:	EG
CHECKED BY:	DN

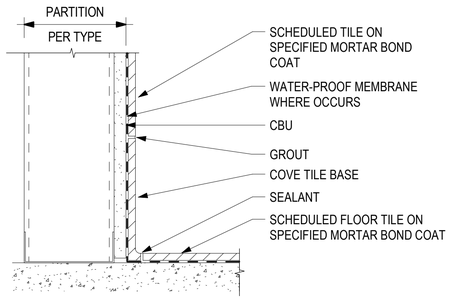
REVISION	DESCRIPTION	DATE

INTERIOR DETAILS - OPENINGS & CEILING TRANSITIONS

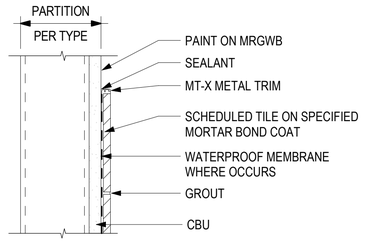
A811

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

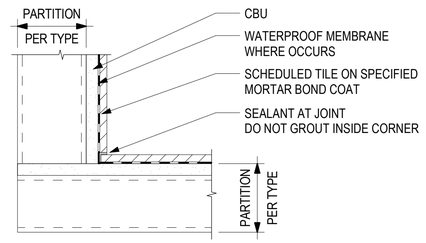
1" ACTUAL



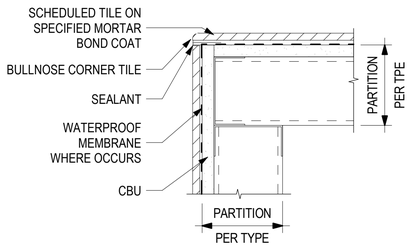
1 A812 TILE @ TILE FLOOR
3" = 1'-0"



2 A812 TILE @ TOP
3" = 1'-0"

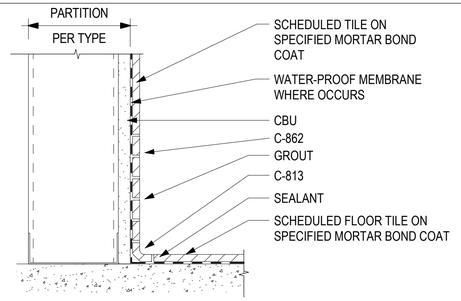


3 A812 TILE @ INSIDE CORNER
3" = 1'-0"

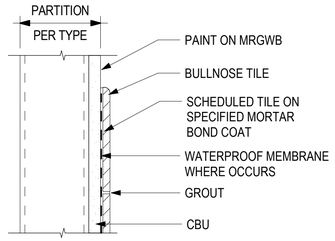


4 A812 BULLNOSE @ OUTSIDE CORNER
3" = 1'-0"

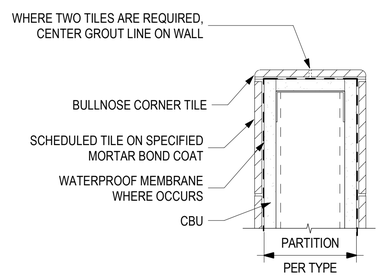
SECOND FLOOR RESTROOM DETAILS



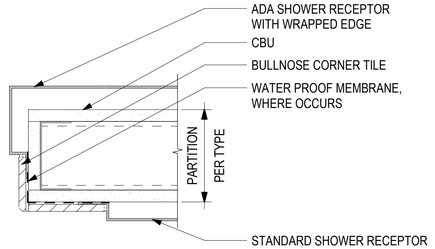
5 A812 KEYSTONES TILE @ BASE
3" = 1'-0"



6 A812 BULLNOSE @ TOP
3" = 1'-0"

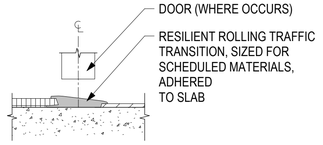


7 A812 BULLNOSE @ END WALL
3" = 1'-0"

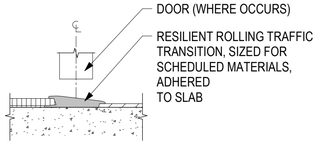


8 A812 SHOWER INSERT @ WALL TILE
3" = 1'-0"

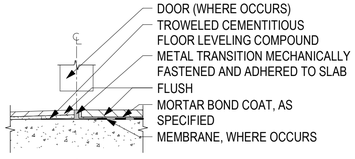
FIRST FLOOR LOCKER ROOM DETAILS



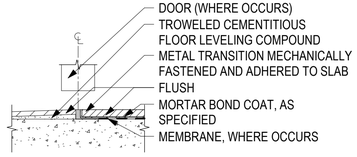
A
WALKOFF TO LVT



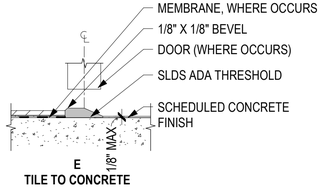
B
CARPET TO LVT



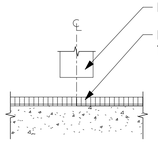
C
LVT TO VCT



D
LVT TO TILE



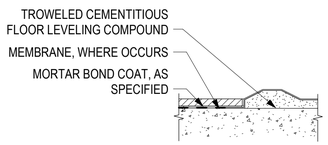
E
TILE TO CONCRETE



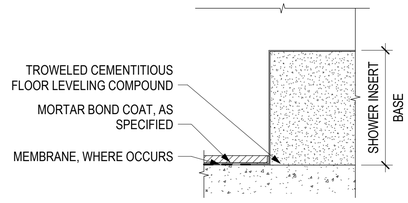
F
CARPET TO WALKOFF

TYPICAL FLOORING TRANSITION NOTES:
1. SEE FINISH LEGEND FOR SPECIFIC PROFILES
2. SEE FINISH SCHEDULE FOR ROOM-SPECIFIC FLOORING FINISH
3. SEE DOOR SCHEDULE FOR THRESHOLDS SPECIFIED IN HARDWARE GROUPS
4. COORDINATE SPECIFIED DOOR UNDERCUT WITH SCHEDULED FLOORING

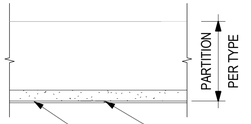
FLOOR TRANS - TYPICAL TRANSITIONS



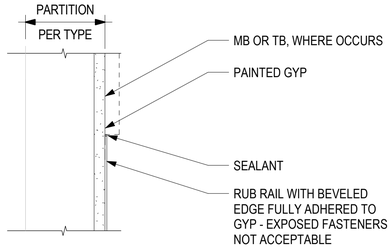
9 A812 ADA SWR RCPT @ TILE FLOOR
3" = 1'-0"



10 A812 SIDE TRSFR SWR RCPT @ TILE FLR
3" = 1'-0"



11 A812 WALL - RUB RAIL @ BUTT JOINTS
3" = 1'-0"



12 A812 WALL - RUB RAIL @ TOP
3" = 1'-0"

BETTISWORTH NORTH

STATE OF ALASKA
49TH
Roy L. Rountree
No. A-8259
REGISTERED PROFESSIONAL ARCHITECT
2023-05-01

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

ALASKA COURT SYSTEM

KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES

KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

PROJECT NO:	20-102
DATE:	2023-05-01
DRAWN BY:	EG
CHECKED BY:	DN

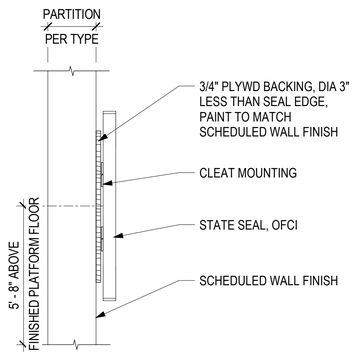
REVISION	DESCRIPTION	DATE

INTERIOR DETAILS - WALL PROTECTION & FLOOR TRANSITIONS

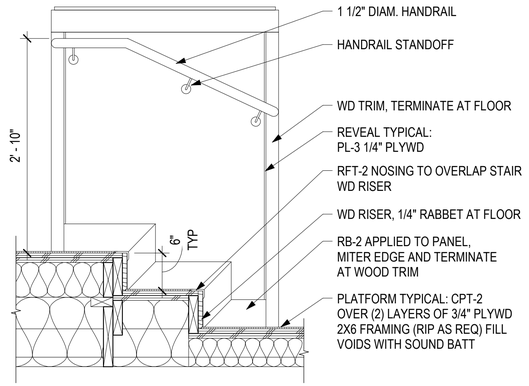
A812

Autodesk Docs://20-102 ACS Kotzebue CH/20-102 ACS KOTZ CH-A-Model.rvt

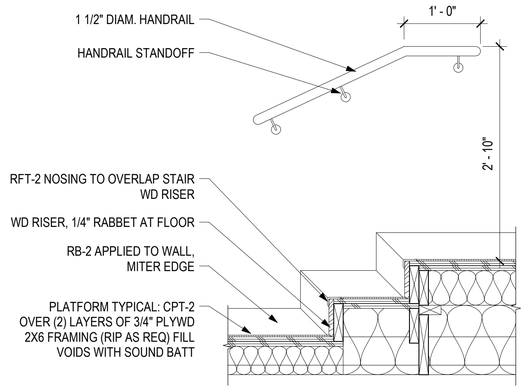
5/2/2023 9:42:29 AM



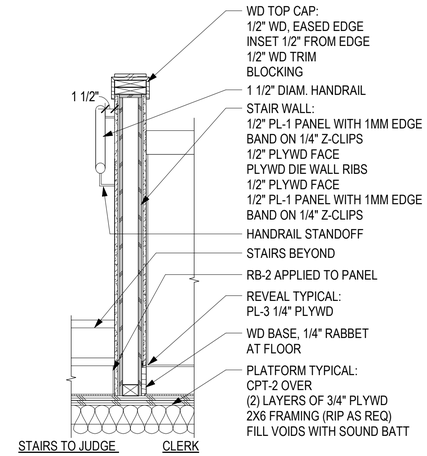
1 A813 BACKING @ STATE SEAL
1" = 1'-0"



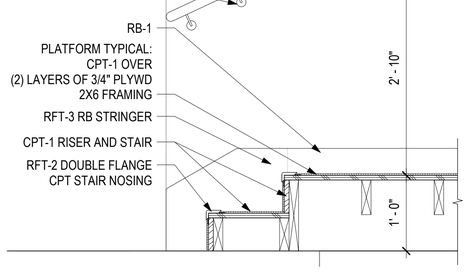
2 A813 PLATFORM STAIR - E
1" = 1'-0"



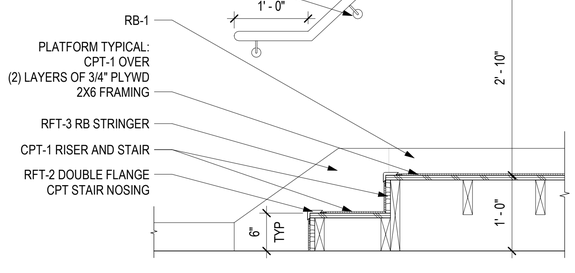
3 A813 PLATFORM STAIR - W
1" = 1'-0"



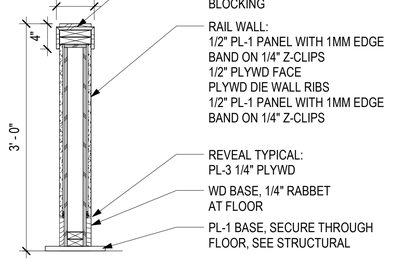
4 A813 PLATFORM RAIL
1" = 1'-0"



STAIR - DISTRICT COURTROOM JUDGE ENTRANCE
5 A813 1" = 1'-0"



STAIR - SUPERIOR COURTROOM JUDGE ENTRANCE - N
6 A813 1" = 1'-0"



7 A813 SPECTATOR/JURY RAIL
1" = 1'-0"

BETTISWORTH NORTH
CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA 49TH
Roy L. Rountree
No. A-8259
REGISTERED PROFESSIONAL ARCHITECT
2023-05-01

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

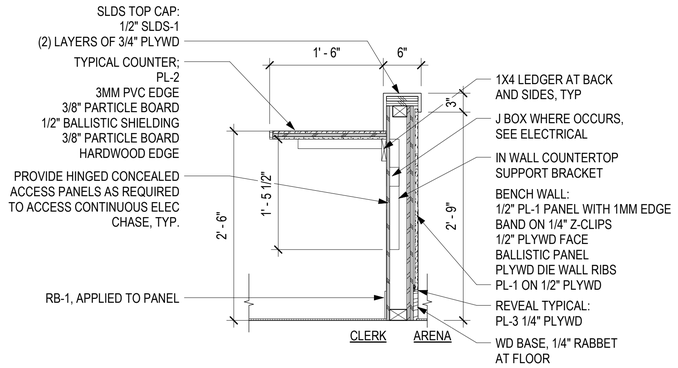
CONSULTANT:

PROJECT NO:	20-102
DATE:	2023-05-01
DRAWN BY:	EG
CHECKED BY:	DN

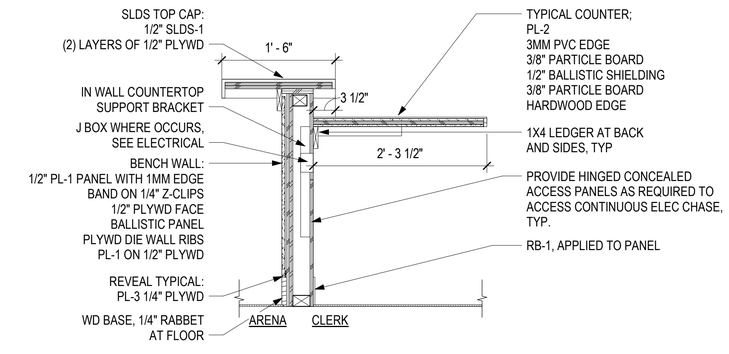
REVISION	DESCRIPTION	DATE

INTERIOR DETAILS - COURTROOM MILLWORK

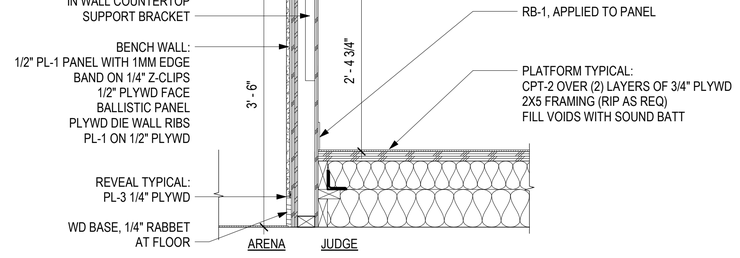
A813



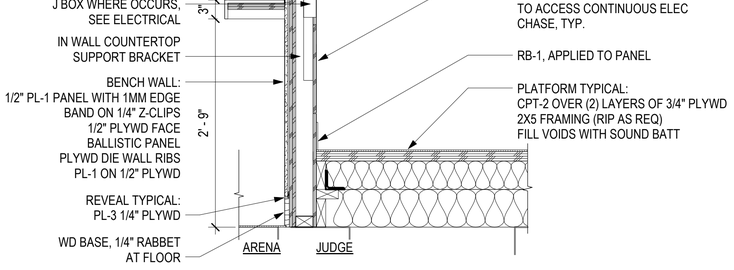
1 A814 CLERK RETURN
1" = 1'-0"



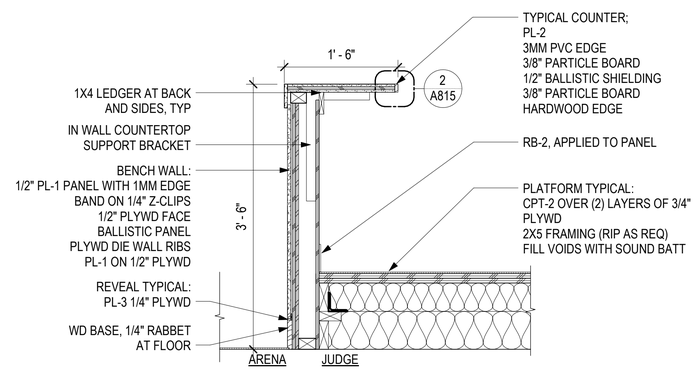
2 A814 CLERK WORKSTATION
1" = 1'-0"



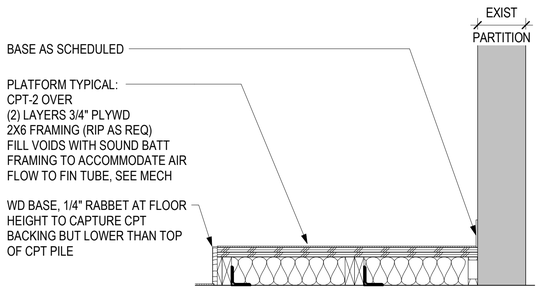
3 A814 JUDGE RETURN @ CLERK
1" = 1'-0"



4 A814 JUDGE BENCH
1" = 1'-0"



5 A814 JUDGE RETURN
1" = 1'-0"



6 A814 JURY PLATFORM
1" = 1'-0"

BETTISWORTH NORTH
CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA 49TH
Roy L. Rountree
No. A-8259
REGISTERED PROFESSIONAL ARCHITECT
2023-05-01

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

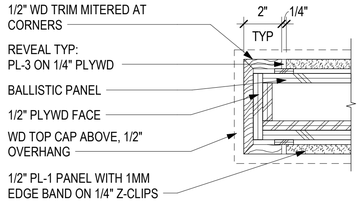
CONSULTANT:

PROJECT NO:	20-102
DATE:	2023-05-01
DRAWN BY:	EG
CHECKED BY:	DN

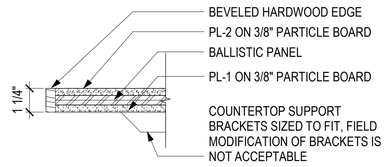
REVISION	DESCRIPTION	DATE

INTERIOR DETAILS - COURTROOM MILLWORK

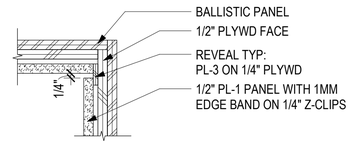
A814



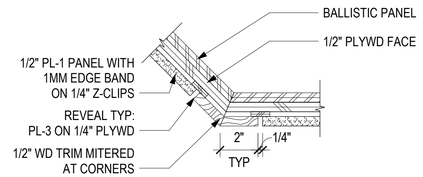
1 A815 END OF JURY/SPECTATOR RAIL
3" = 1'-0"



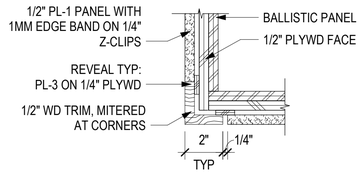
2 A815 COUNTERTOP TYP
3" = 1'-0"



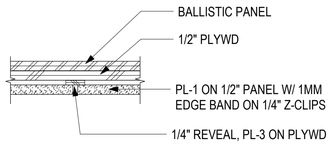
3 A815 TRIM @ INSIDE CORNER
3" = 1'-0"



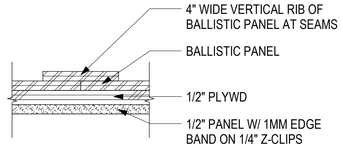
4 A815 TRIM @ OUTSIDE CORNER
3" = 1'-0"



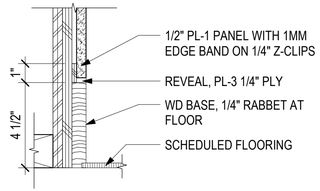
5 A815 TRIM @ OUTSIDE CORNERS 90
3" = 1'-0"



6 A815 TRIM @ PANEL TO PANEL
3" = 1'-0"



7 A815 BALLASTIC SHEILD SEAM
3" = 1'-0"



8 A815 WD BASE @ PANEL
3" = 1'-0"

BETTISWORTH NORTH
CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA 49TH
Roy L. Rountree No. A-8259
2023-05-01
REGISTERED PROFESSIONAL ARCHITECT

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

PROJECT NO:	20-102
DATE:	2023-05-01
DRAWN BY:	EG
CHECKED BY:	DN

REVISION	DESCRIPTION	DATE

INTERIOR DETAILS - COURTROOM MILLWORK

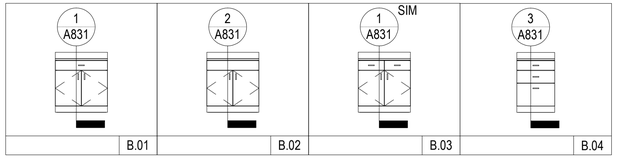
A815

1" ACTUAL

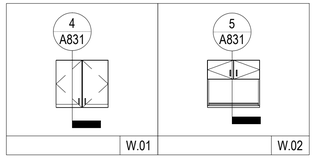
IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED. AFFECTING ALL LABELED SCALES

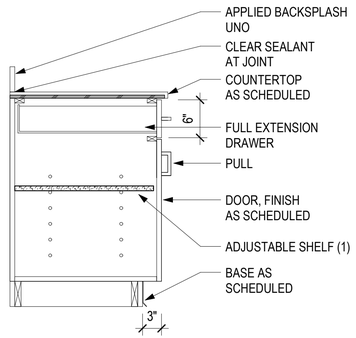
CASEWORK LEGEND

BASE CABINETS (B)

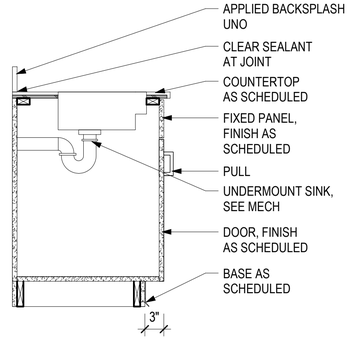


WALL CABINETS (W)

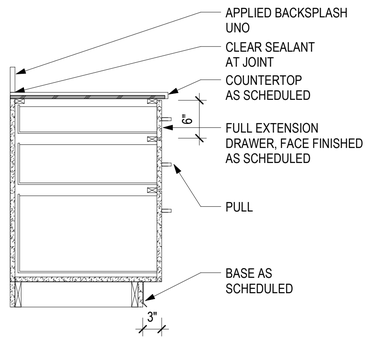




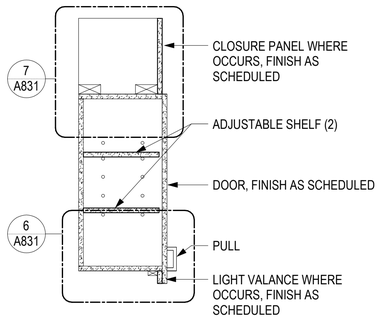
1 A831 BASE - DOOR DWR
1" = 1'-0"



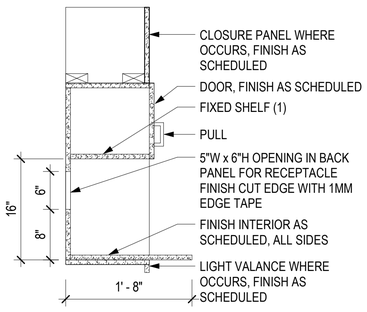
2 A831 BASE - SINK DOOR
1" = 1'-0"



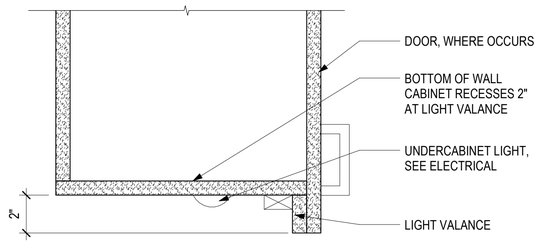
3 A831 BASE - 3 DWR
1" = 1'-0"



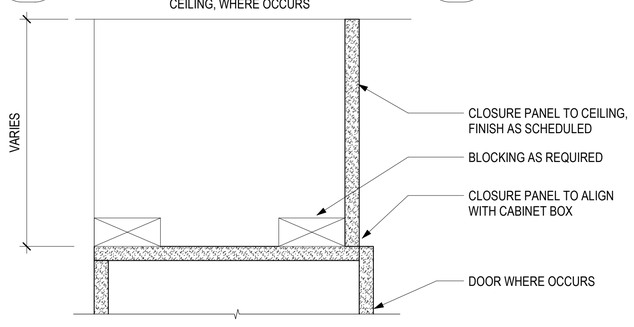
4 A831 WALL - DOOR
1" = 1'-0"



5 A831 WALL - MICRO
1" = 1'-0"



6 A831 LIGHT VALANCE
3" = 1'-0"



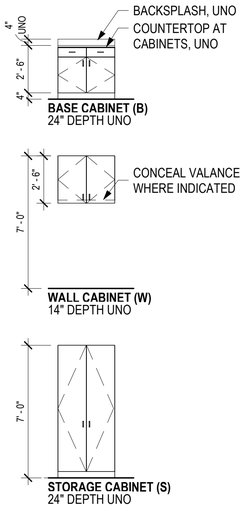
7 A831 CLOSURE PANEL
3" = 1'-0"

CASEWORK LEGEND NOTES

A. THE 'CASEWORK CODE' SYMBOLS SPECIFYING THE PARTICULAR MODULES ARE SHOWN ON INTERIOR ELEVATIONS.
B. PROVIDE CASEWORK IN STANDARD MODULES OF 3" INCREMENTS UNO.
C. SINGLE DOOR 12"- 24" W, DOUBLE DOOR 30"-36" W, UNO.
D. FOR SPECIAL CASEWORK CONFIGURATIONS REFER TO THE INTERIOR ELEVATIONS AS TARGETED ON THE FLOOR PLANS.
E. VERIFY MOUNTING HEIGHTS AND CLEARANCES AT ALL LOCATIONS; NOTIFY THE ARCHITECT OF ANY DISCREPANCIES WITH THE CONTRACT DRAWINGS.
F. INSTALL ALL SINKS CENTER OF CABINET, UNO.
G. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
H. REFER TO SPECIFICATIONS FOR ADDITIONAL CONSTRUCTION, INSTALLATION, HARDWARE, FINISH AND/OR OTHER REQUIREMENTS
I. PROVIDE ALL REQUIRED AND/OR NECESSARY BACKING, BLOCKING AND OTHER STRUCTURAL SUPPORT.
J. PROVIDE FINISHED END PANEL TO MATCH ADJACENT EXPOSED SURFACES AT ALL EXPOSED END UNITS.
K. PROVIDE FINISH FILLER, 1"-2" WIDE & SCRIBED NEATLY TO ADJACENT SURFACE, AT CABINETS ABUTTING OTHER CONSTRUCTION.
L. COLORS AND/OR SPECIFIC FINISHES TO BE FINALIZED BY THE ARCHITECT DURING CONSTRUCTION.
M. MODIFY SIDE PANELS AT WALL CABINETS FOR CONTINUOUS UNINTERRUPTED ROUTING OF UNDER CABINET LIGHTS.
N. PROVIDE 1 LABEL HOLDER FOR EACH DOOR AND DRAWER WHERE INDICATED IN CASEWORK CODE SPECIAL CONDITIONS.
O. PROVIDE SCHEDULED RESILIENT BASE AT TOE KICK UNO.
P. PROVIDE BACK AND SIDE SPLASHES WHERE COUNTERTOPS ABUT ADJACENT WALL CONSTRUCTION. SPLASH FINISH WILL MATCH COUNTERTOP FINISH UNO.

CASEWORK LEGEND NOTES

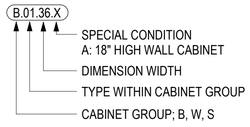
SEE TYPICAL CABINET ELEVATIONS THIS SHEET



CASEWORK CODE

SEE FINISH SCHEDULE FOR CASEWORK FINISHES

MATERIAL DESIGNATION



BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
49TH
Roy L. Rountree
No. A-8259
REGISTERED PROFESSIONAL ARCHITECT
2023-05-01

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

PROJECT NO:	20-102
DATE:	2023-05-01
DRAWN BY:	EG
CHECKED BY:	DN

REVISION	DESCRIPTION	DATE

CASEWORK LEGEND & DETAILS

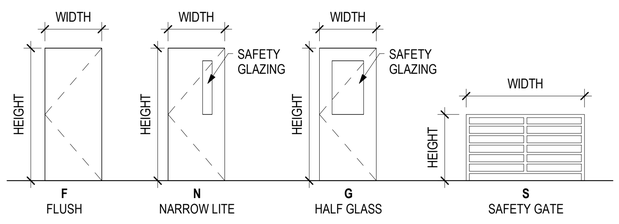
A831

Autodesk Docs://20-102 ACS Kotzebue CH/20-102 ACS KOTZ CH-A-Model.rvt

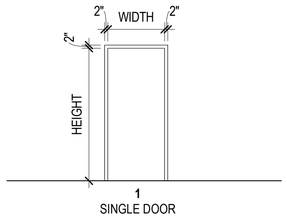
5/2/2023 9:42:32 AM

DOOR SCHEDULE

DOOR NO.	PANEL						FRAME					HARDWARE	STC RATING	COMMENTS	ACCESS CONTROL
	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	JAMB	HEAD				
120A	F	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	1	STC 25		
120B	F	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	1	STC 25		HARD KEY
127	F	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	2			
128	F	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	2			
204A	F	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	3		3	CIPHER LOCK
204B	G	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	1			HARD KEY
213	F	2' - 8"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	4			HARD KEY
218A	F	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	5	STC 25	3	CIPHER LOCK
220A	N	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	6			HARD KEY
221	F	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	7	STC 25		
222	F	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	7	STC 25		
223	F	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	7	STC 25		
224	F	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	7	STC 25		
225	F	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	9			
226	F	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	9		3	CIPHER LOCK
230	S	6' - 2"	3' - 6"	2"	STEEL PIPE	P	--	--	--	--	--	19			
232.1	F	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	4			HARD KEY
232A	F	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	11			HARD KEY
232AA	F	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	12			
232B	F	4' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	11			HARD KEY
232BA	F	4' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	12			
232C	F	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	13	STC 25	3	CIPHER LOCK
232D	F	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	14	STC 25		
232DA	F	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	13	STC 25	3	CIPHER LOCK
A199	N	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	15		3	CIPHER LOCK
A226.1	F	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	10		2,3	CIPHER LOCK
E202	F	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	16		1	
E204	F	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	16		1	
E211	F	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	17		2,3	CIPHER LOCK
E214B	F	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	18		1	HARD KEY
E214C	F	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	13		2,3	CIPHER LOCK
E214D	F	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	13		1,2,3	CIPHER LOCK
E216A	F	3' - 0"	7' - 0"	1 3/4"	SCW	FF	1	HM	P	2/A811	1/A811	13		2,3	CIPHER LOCK



DOOR PANEL TYPES



DOOR FRAME TYPES

GENERAL SCHEDULE COMMENTS

1. RELOCATED EXISTING DOOR
2. EXISTING DOOR TO RECEIVE ACCESS CONTROL
3. SEE G001 FOR BID ALTERNATE 1

BETTISWORTH NORTH

STATE OF ALASKA
49TH
Roy L. Rountree
No. A-8259
2023-05-01
REGISTERED PROFESSIONAL ARCHITECT

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

PROJECT NO:	20-102
DATE:	2023-05-01
DRAWN BY:	GB
CHECKED BY:	DN

REVISION	DESCRIPTION	DATE

DOOR SCHEDULE

A911

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL

FINISH SCHEDULE

NUMBER	ROOM NAME	FLOOR		BASE	NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL		WAINSCOT		CASEWORK		CEILING		ACCESSORY GROUP	REMARKS
		SUBSTRATE	FINISH	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	HEIGHT	CABINETS	COUNTER	MATERIAL	FINISH		
127	WOMENS LOCKER ROOM	(E) CONC	CT-1A	CT-1B	MRGYP/CBU	P-1	MRGYP/CBU	P-1	MRGYP/CBU	P-1	MRGYP/CBU	P-1	CT-2	76"	-	-	MRGYP	P-1	3	15,16,17
128	MENS LOCKER ROOM	(E) CONC	CT-1A	CT-1B	MRGYP/CBU	P-1	MRGYP/CBU	P-1	MRGYP/CBU	P-1	MRGYP/CBU	P-1	CT-2	76"	-	-	MRGYP	P-1	2	15,16,17
A101	ENTRY	(E) CONC	-	-	EXIST	P-1	EXIST/ARGYP	P-1	EXIST	P-1	EXIST	P-1	-	-	-	-	(E) GYP	P-1	-	
A111	NG ASSEMBLY AREA	(E) CONC	EXIST	-	EXIST	P-1	EXIST	P-1	EXIST	P-1	EXIST	P-1	-	-	-	-	(E) OTS | GYP	P-1	-	3,12
A120	VEST	(E) CONC	EXIST	RB-1	ARGYP	P-1	ARGYP	P-1	ARGYP	P-1	ARGYP	P-1	-	-	-	-	GYP	P-1	-	
A199	VEST	(E) CONC	WM-1	RB-1	EXIST	P-1	ARGYP	P-1	EXIST	P-1	ARGYP	P-1	-	-	-	-	(E) GYP	P-1		
A200	STAIR	(E) CONC	EXIST	-	EXIST	P-1	EXIST	P-1	EXIST	P-1	-	-	-	-	-	-	(E) GYP	P-1	-	
103A	STAIR	(E) CONC	-	-	EXIST	-	EXIST	-	EXIST	-	EXIST	-	-	-	-	-	(E) GYP	-	-	
201A	HALL	(E) CONC	WM-1	RB-1	EXIST	P-1	-	-	GYP	P-1	EXIST/GYP	P-1	-	-	-	-	(E) GYP/ GYP	P-1	-	
213	STORAGE	(E) CONC	CPT-1	RB-1	EXIST/GYP	P-1	EXIST/GYP	P-1	EXIST/GYP	P-1	GYP	P-1	-	-	-	-	GYP	FF	-	
220	WALKWAY	(E) CONC	LVT-1	RB-1	EXIST/GYP	P-1	-	-	GYP	P-1	GYP	P-1	-	-	-	-	ACT-2	FF	-	14
220A	HALLWAY	(E) CONC	LVT-1	RB-1	EXIST/GYP	P-1	GYP	P-1	GYP	P-1	GYP	P-1	-	-	-	-	ACT-2	FF	-	
221	PUBLIC TOILET	(E) CONC	CT-3A	CT-3B	MRGYP/CBU	P-1	MRGYP/CBU	P-1	MRGYP/CBU	P-1	MRGYP/CBU	P-1	CT-4	78"	-	-	MRGYP	P-1	1	17
222	PUBLIC TOILET	(E) CONC	CT-3A	CT-3B	MRGYP/CBU	P-1	MRGYP/CBU	P-1	MRGYP/CBU	P-1	MRGYP/CBU	P-1	CT-4	78"	-	-	MRGYP	P-1	1	17
223	PUBLIC TOILET	(E) CONC	CT-3A	CT-3B	MRGYP/CBU	P-1	MRGYP/CBU	P-1	MRGYP/CBU	P-1	MRGYP/CBU	P-1	CT-4	78"	-	-	MRGYP	P-1	1	17
224	PUBLIC TOILET	(E) CONC	CT-3A	CT-3B	MRGYP/CBU	P-1	MRGYP/CBU	P-1	MRGYP/CBU	P-1	MRGYP/CBU	P-1	CT-4	78"	-	-	MRGYP	P-1	1	17
225	ATTORNEY CONF	(E) CONC	CPT-1	RB-1	GYP	P-1	GYP	P-1	EXIST/GYP	P-1	EXIST	P-1	-	-	-	-	ACT-2	FF	-	
226	STORAGE	(E) CONC	VCT-1	RB-1	EXIST/GYP	P-1	EXIST	P-1	EXIST	P-1	EXIST	P-1	-	-	-	-	ACT-3	FF	-	
230	MEZZANINE	PLYWD	LVT-1	RB-1	EXIST	P-1	ARGYP	P-1	-	-	-	-	-	-	-	-	(E) OTS	-	-	
230A	STAIR	CONC	WM-1	-	-	-	-	-	-	-	-	-	-	-	-	-	(E) OTS	-	-	
232	SUPERIOR COURTROOM	(E) PLYWD/PLYWD	CPT-2	RB-1,2	EXIST	P-1 | AWP-1	ARGYP	P-1 | AWP-1	EXIST/ARGYP	P-1 | AWP-1	EXIST/ARGYP	P-1,5	HIP-1	56"	PL-1 | WD-1	PL-2 | SLDS-1	GYP | ACT-1,2 | PL-1	P-1 | FF | FF	-	1,2,5,6,9,11,13
232.1	EVIDENCE STORAGE	(E) PLYWD/PLYWD	CPT-2	RB-1	ARGYP	P-1	ARGYP	P-1	EXIST	P-1	ARGYP	P-1	-	-	-	-	GYP	P-1	-	
232A	VESTIBULE	(E) PLYWD/PLYWD	CPT-2	RB-1	ARGYP	P-1	ARGYP	P-1	EXIST	P-1	EXIST	P-1	-	-	-	-	ACT-2	FF	-	
232B	SOUND LOCK	(E) PLYWD/PLYWD	CPT-2	RB-1	EXIST/ARGYP	P-1	ARGYP	P-1	ARGYP	P-1	ARGYP	P-1	-	-	-	-	ACT-2	FF	-	
232C	VESTIBULE	(E) PLYWD/PLYWD	CPT-1	RB-1 | RFT-3	EXIST	P-1	ARGYP	P-1	ARGYP	P-1	EXIST	P-1	-	-	-	-	ACT-2	FF	-	
232D	ANTE ROOM	(E) PLYWD/PLYWD	CPT-1	RB-1	GYP	P-1	GYP	P-1	EXIST	P-1	EXIST	P-1	-	-	-	-	ACT-2	FF	-	
A201	ELEVATOR LOBBY	(E) PLYWD	CPT-1	RB-1	EXIST	P-1	EXIST	P-1	EXIST	P-1	EXIST/ARGYP	P-1	-	-	-	-	(E) GYP	P-1	-	
A203	WALKWAY	(E) CONC	LVT-1	RB-1	EXIST/ARGYP	P-1	EXIST	P-1	EXIST	P-1	EXIST/ARGYP	P-1	-	-	-	-	(E) GYP	P-1	-	4
A204	CLERKS COUNTER	(E) CONC	LVT-1	RB-1	ARGYP	P-1	EXIST	P-1	EXIST/ARGYP	P-1	ARGYP	P-1	-	-	PL-1	PL-2	GYP | ACT-3	P-1 | FF	-	5
A205	SOUNDLOCK	(E) CONC	CPT-1	RB-1	EXIST	P-1	EXIST	P-1	EXIST	P-1	EXIST	P-1	-	-	-	-	ACT-2	FF	-	
A206	CLERKS OFFICE	(E) CONC	CPT-1	RB-1	EXIST	P-1	EXIST/GYP	P-1	GYP	P-4	EXIST/GYP	P-1,4	-	-	PL-1	PL-2	GYP | ACT-3	P-1 | FF	-	5,6,7
A206A	BREAK ROOM	(E) CONC	LVT-1	RB-1	GYP	P-4	EXIST	P-1	EXIST	P-1	EXIST	P-1	-	-	PL-1	SLDS-1	ACT-3	FF	-	7
A208	COPIER/STORAGE	(E) CONC	CPT-1	RB-1	GYP	P-4	EXIST	P-1	EXIST	P-1	EXIST	P-1	-	-	-	-	ACT-3	FF	-	7
A210	HALL	(E) CONC	CPT-1	RB-1	EXIST	P-1	EXIST/GYP	P-1	EXIST/GYP	P-1	EXIST	P-1	-	-	-	-	ACT-3	FF	-	8
A211	ANTE ROOM	(E) CONC	CPT-1	RB-1	EXIST	P-1	EXIST	P-1	EXIST	P-1	EXIST	P-1	-	-	-	-	ACT-2	FF	-	
A214	DISTRICT COURTROOM	(E) CONC	CPT-2	RB-1,2	EXIST/GYP	P-1	EXIST/GYP	P-1 | AWP-1	EXIST/GYP	P-1 | AWP-1	EXIST/GYP	P-5	HIP-1	56"	PL-1 | WD-1	PL-2 | SLDS-1	GYP | ACT-1,2	P-1 | FF	-	1,2,5,6,9,11,13
A215	SECURE STORAGE	(E) CONC	CPT-1	RB-1	EXIST	P-1	EXIST	P-1	EXIST	P-1	EXIST	P-1	-	-	-	-	(E) GYP	P-1	-	
A218	JURY ROOM	(E) CONC	CPT-1	RB-1	EXIST	P-4	EXIST/GYP	P-1	GYP	P-1	EXIST	P-1	-	-	PL-1	PL-2	ACT-2	FF	-	
A226.1	SERVER	(E) CONC	VCT-1	RB-1	GYP	P-1	EXIST	P-1	EXIST	P-1	EXIST	P-1	-	-	-	-	OTS	-	-	

GENERAL FINISH NOTES

A. PRODUCT MANUFACTURER DESIGNATIONS INDICATE THE BASIS FOR QUALITY, PATTERN AND COLOR SELECTION.
B. SEE INTERIOR ELEVATIONS FOR LOCATIONS OF ACCENT/ FEATURE WALL FINISHES.
C. SEE FINISH PLANS, FOR EXTENT AND INSTALLATION PATTERN OF FLOORING AND/OR EXTENT OF ACCENT/ FEATURE FINISHES.
D. SEE INTERIOR DETAILS FOR FLOOR TRANSITIONS, BASE DETAILS AND CEILING TRANSITIONS.
E. PROVIDE MOISTURE-RESISTANT GYPSUM WALLBOARD (MRGYP) AT WALLS WITHIN 48" OF ALL PLUMBING FIXTURES.
F. PROVIDE CEMENTITIOUS BACKER UNITS (CBU) BEHIND ALL CERAMIC, PORCELAIN AND GLASS TILE AND WALL FINISHES. PROVIDE PAINTED MRGYP ABOVE.
G. WHERE IRGYP AND/OR ARGYP ARE INDICATED, PROVIDE SPECIAL PURPOSE GYPSUM BOARD TO +48" AFF AND TYPE-X GYPSUM BOARD ABOVE UNO.
H. PROVIDE A PRIME COAT AT WALLS IN UNEXPOSED AREAS CONCEALED BY CASEWORK, PANELING, WALL COVERINGS, AND OTHER FIXED ARCHITECTURAL ELEMENTS UNO.
I. EXTEND SCHEDULED WALL FINISHES AT AREAS EXPOSED BEHIND CASEWORK, STORAGE, PANELING, ETC, DUE TO REVEALS, JOINTS, KNEE SPACE, END CONDITIONS, UNO.
J. FINISH REVEALS AND FILLERS TO MATCH ADJACENT LIKE FEATURE (PAINT,PLASTIC LAMINATE, ETC.)
K. PROVIDE CORNER GUARDS AT ALL UNPROTECTED OUTSIDE GYP CORNERS UNO.
L. PROVIDE ALUMINUM J-MOLD TOP CAP AT INTEGRALLY-COVED BASE UNO.
M. PROVIDE RESILIENT TRANSITION ACCESSORIES AT ALL JOINTS BETWEEN DISSIMILAR FLOOR FINISHES, EXCEPT CARPET-TO-WALK-OFF, UNO.
N. REFER TO DOOR SCHEDULE AND HARDWARE GROUPS, AND PROVIDE THRESHOLD HARDWARE IN LIEU OF RESILIENT TRANSITIONS WHERE INDICATED.
O. WHERE CEILING INDICATED OTS, PAINT EXPOSED METAL DECK, STRUCTURE, DUCTS, CONDUIT, AND WIRE OR UNISTRUCT EQUIPMENT SUPPORTS, P-1 UNO.
P. PAINT INTERIOR RAILS, LADDERS AND MISCELLANEOUS METALS, P-2 UNO.
Q. PAINT INTERIOR HM DOORS AND FRAMES P-3 UNO.
R. PROVIDE SEALANT AT ALL EXPOSED JOINTS BETWEEN DISSIMILAR SURFACES AND JOINTS BETWEEN SURFACES IN DIFFERING PLANES, INCLUDING, BUT NOT LIMITED TO, RESILIENT FLOORING AT DOOR FRAMES, BACKSLASHES AT COUNTERS AND WALLS, INTEGRALLY COVED BASE AND WALL PROTECTION.

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA 49TH
Roy L. Rountree
No. A-8259
REGISTERED PROFESSIONAL ARCHITECT
2023-05-01

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

PROJECT NO: 20-102
DATE: 2023-05-01
DRAWN BY: EG
CHECKED BY: DN

REVISION	DESCRIPTION	DATE

FINISH SCHEDULE

A912

BETTISWORTH NORTH ARCHITECTS & PLANNERS©

5/2/2023 9:42:34 AM Autodesk Docs://20-102 ACS Kotzebue CH/20-102 ACS KOTZ CH-A-Model.rvt

FINISH LEGEND

FLOORING
WALK OFF MAT
WM-1 TARKETT | 24" X 24" | ASSERTIVE RIB | 3MM | CHROMIUM 26201
ETHOS MODULAR WITH OMNICOAT TECHNOLOGY | GLUE DOWN | VERTICAL ASHLAR

CARPET TILE
CARPET TILE BACKING | TARKETT
CPT-1 TYPICAL | TARKETT | 24" X 24" | 4.7MM | GABARDINE | PRAIRIE WIND 77209 | STRATATEC PATTERNED LOOP | ETHOS MODULAR WITH OMNICOAT TECHNOLOGY | GLUE DOWN | VERTICAL ASHLAR
CPT-2 COURTROOM ARENA | TARKETT | 24" X 24" | 4MM | SWEATERKNIT | PRAIRIE WIND 77209 | TUFTED PATTERNED LOOP | MODULAR FLEX AIRE CUSHION RS | GLUE DOWN | VERTICAL ASHLAR

LUXURY VINYL TILE
LVT-1 MOHAWK GROUP | PREMIUM WOOD C0194 | 7.72" X 51.97" | 2.5MM | TAN TONE 812 | BRICK ASHLAR 1/3 OFFSET

VINYL COMPOSITION TILE
VCT-1 TARKETT COMMERCIAL FLOORING | VCT II | 12" X 12" | 3MM | COLOR: TRUE BEIGE 533

CERAMIC & PORCELAIN TILE
HIGH-PERFORMANCE POLYMER-MODIFIED GROUT, COLOR 909 STERLING, UNO. EPOXY GROUT AT LOCKER ROOMS.
CT-1A FLOORING | PORCELAIN | DALTILE | KEYSTONES | 2" X 2" | 5/16" | DESERT GRAY SPECKLE D200 | TEC POWER GROUT SILVERADO 949
CT-1B WALL BASE | PORCELAIN | DALTILE | KEYSTONES | MB5A | 2" X 2" | 5/16" | MATCH CT-1A TEC POWER GROUT SILVERADO 949
CT-2 WALL | CERAMIC | DALTILE | CLASSIC COLORWHEEL | 6"X 6" | 5/16" | SEMI-GLOSS BISCUIT K175 | INSTALLATION PATTERN: STACKED, 50/50 RANDOM MIX CT-2 & CT-2A
CT-2A WALL | CERAMIC | DALTILE | CLASSIC COLORWHEEL | 6"X 6" | 5/16" | MATTE BISCUIT K775 INSTALLATION PATTERN: HORIZONTAL STACKED, 50/50 RANDOM MIX CT-2 & CT-2A
CT-2B WALL | CERAMIC | DALTILE | CLASSIC COLORWHEEL | BULLNOSE 6"X 6"/ S4669 | 5/16" | SEMI-GLOSS BISCUIT K175
CT-2C WALL | CERAMIC | DALTILE | CLASSIC COLORWHEEL | CORNER BULLNOSE 6"X 6"/ SCRL4669 | 5/16" | SEMI-GLOSS BISCUIT K175
CT-3A FLOORING | PORCELAIN | DALTILE | VOLUME 1.0 | 12"X12" | DEGREES SILVER VL71 | TEC POWER GROUT 908 DOVE GRAY
CT-3B FLOORING | PORCELAIN | DALTILE | VOLUME 1.0 | COVE BASE 6"X12" | DEGREES SILVER VL71 | TEC POWER GROUT 908 DOVE GRAY
CT-4 WALL | CERAMIC | DALTILE | MYTHOLOGY | 4"X12" | 5/16" | HARMONIA MY92 | TEC POWER GROUT 908 DOVE GRAY INSTALLATION PATTERN: VERTICAL STACKED

BASE & STAIR ACCESSORIES
RESILIENT BASE
RB-1 COVED TOE | 4" | JOHNSONITE | BASEWORKS TYPE TS | 32 PEBBLE
RB-2 MILLWORK | 4 1/2" | JOHNSONITE | MANDALAY | MW-32-H | 32 PEBBLE

RESILIENT FLOORING TRANSITIONS & ACCESSORIES
RFT-1 TRANSITION | JOHNSONITE | CTA-32-X | 32 PEBBLE
RFT-2 NOSING | JOHNSONITE | VLD-32-SQ | 32 PEBBLE
RFT-3 STRINGER | JOHNSONITE | RS-32 | 32 PEBBLE

METAL TRANSITIONS & ACCESSORIES
MT-1 FUTURA | ET-Q-38-EA | 415435
MT-2 FUTURA | LVT-128-MF | 415030
MT-3 FUTURA | ET-U-38-EA | 415416

WALLS
PAINT COLORS
P-1 GENERAL WHITE | SHERWIN WILLIAMS | NEUTRAL GROUND SW7568
P-2 MISC METALS | SHERWIN WILLIAMS | ELEPHANT EAR SW9168
P-3 DOOR FRAMES | SHERWIN WILLIAMS | ELEPHANT EAR SW9168
P-4 ACCENT | SHERWIN WILLIAMS | 1 HALCYON GREEN SW6213
P-5 ACCENT | SHERWIN WILLIAMS | LABRADORITE SW7619

WALL COVERING (RIGID, HIGH-IMPACT PLASTIC PANELS)
DIRECT-GLUE | EXPOSED FASTENERS ARE NOT ACCEPTABLE
HIP-1 RIGID, HIGH-IMPACT PLASTIC PANELS
INPRO RIGID SHEET | 0.060" | MFR STD TEXTURE | 0103 WHITE SAND
OMIT TRIMS; PROVIDE COLOR-MATCHED SEALANT AT TOP EDGE, IN-PLANE JOINTS AND INSIDE CORNERS
PROVIDE CORNER GUARD AT OUTSIDE CORNERS

WALL PROTECTION
CG-1 CORNER GUARD | RESILIENT | INPRO | 48"H | 3" WING | RIGID VINYL | CLAM SHELL 0154 | MFR STD SAND TEXTURE SURFACE-MOUNT ALUMINUM RETAINER WITH RIGID VINYL COVER
CG-2 CORNER GUARD | RESILIENT | INPRO | 96"H | 3" WING | RIGID VINYL | CLAM SHELL 0154 | MFR STD SAND TEXTURE SURFACE-MOUNT ALUMINUM RETAINER WITH RIGID VINYL COVER
CG-3 CORNER GUARD | RESILIENT | INPRO | 32"H | 3" WING | RIGID VINYL | CLAM SHELL 0154 | MFR STD SAND TEXTURE SURFACE-MOUNT ALUMINUM RETAINER WITH RIGID VINYL COVER
WG-1 INPRO | RUBRAIL | 12" H | .060" THICK | MFR STD SAND TEXTURE | CLAM SHELL 0154

ACOUSTICAL TREATMENTS
AWP-1 TACKABLE FABRIC-WRAPPED PANEL | CONWED DESIGNS | RESPOND A | 1" THICK | SQUARE EDGES | SIZE AS NEEDED, REFER TO INTERIOR ELEVATIONS
MOUNTING METHOD | ACOUSTICAL PERFORMANCE
FABRIC: CARNEGIE XOREL | LINEN 6291-10

SEE **MILLWORK & CASEWORK** FOR SOLID SURFACE WALL CLADDING

CEILINGS
SUSPENSION SYSTEMS FOR ACOUSTIC CEILING TILE
PROVIDE GRID-1 UNLESS INDICATED OTHERWISE
GRID-1 TYPICAL | ARMSTRONG | 15/16" PRELUDE XL EXPOSED TEE | WHITE
TRIM -1 SUPERIOR COURTROOM | ARMSTRONG | AXIOM | 2"H | MATCH GRID -2

ACOUSTICAL CEILING TILES
ACT-1 24" X 24" | ARMSTRONG | ULTIMA 1911 | BEVELED TEGULAR | WHITE | GRID-1
ACT-2 24" X 48" | ARMSTRONG | ULTIMA 1914 | BEVELED TEGULAR | WHITE | GRID-1
ACT-3 24" X 48" | ARMSTRONG | DUNE 1851 | SQUARE LAY-IN | WHITE | GRID-1

CASEWORK, MILLWORK & DOORS
SOLID SURFACE
SLDS-1 LEDGE | POLYMER | HI-MACS | VATHI M502

PLASTIC LAMINATE
PL-1 TYPICAL | WILSONART | LANDMARK WOOD 7981K-12 | SOFTGRAIN | 1 MM EDGE BAND COLOR/TEXTURE MATCH TO PL-1
PL-2 COUNTERTOP | POINITE | CAVALCADE SOUTH AT650-SD | TEXTURED/ SUEDE
PL-3 REVEAL | WILSONART | DECORATIVE METALS | SATIN BRUSHED LITE BRONZE ALUMINUM 6261

INTERIOR DOORS
P MATCH P-3
WD MATCH WD-2

WOOD
WD-1 STANDING AND RUNNING TRIM | SOLID HARD WOOD | SPECIES: WHITE OAK | STAIN TO MATCH PL-1 | CLEAR SATIN FINISH
WD-2 DOORS | VENEER | SPECIES: WHITE OAK | STAIN AND FINISH TO MATCH EXISTING DOORS
HRAL-1 WOOD HANDRAIL | ROUND | SOLID HARD WOOD | SPECIES: WHITE OAK | STAIN TO MATCH PL-1 | CLEAR SATIN FINISH

EQUIPMENT & ACCESSORIES
FULLY-FRAMED ALL-WELDED LOCKERS
PROVIDE SLOPED TOPS UNO
DOORS HAVE A SINGLE-POINT THRU-THE-DOOR PROJECTING FINGER PULL HANDLE WITH PADLOCK
HASP FOR USER-PROVIDED COMBINATION PADLOCK
LCK-1 HEAVY-DUTY KNOCK-DOWN VENTILATED LOCKERS | LYON | DOUBLE TIER, 12" X 18" X 72" | MIN 16 GAUGE STEEL | DOVE GRAY
BENCH ADA BENCH | LYON | 20"X42" | 1 1/4" THICK | ADA HARDWOOD TOP | STEEL PEDESTALS | ADA4220

VISUAL DISPLAY SURFACES
TB-1 ALUMINUM-FRAMED TACK BOARD | 36" X 54" | VINYL-IMPREGNATED CORK | FORBO | 2182
MB-1 ALUMINUM-FRAMED MARKER BOARD | 54" X 114" | CERAMIC STEEL SURFACE | LOW-GLOSS WHITE
MB-2 ALUMINUM-FRAMED MARKER BOARD | 54" X 144" | CERAMIC STEEL SURFACE | LOW-GLOSS WHITE

TOILET ACCESSORIES
PTD SURFACE-MOUNT TOWEL DISPENSER | BOBRICK | CONTURA SERIES | B4262
WR SURFACE-MOUNTED WASTE RECEPTACLE | BOBRICK | CONTURA SERIES | B-277
SD SOAP DISPENSER, TOUCH FREE | GOJO LTX-12 | 1980-01 | WHITE | OFCI
MIR-1 MIRROR 24x36 | BOBRICK | WELDED CHANNEL-FRAMED MIRROR | B-166-2436
MIR-2 MIRROR 24x60 | BOBRICK | WELDED ANGLE-FRAME MIRROR | B-290-2460
TPD TOILET PAPER DISPENSER | BOBRICK | CONTURA SERIES | SURFACE MOUNT | B-4288
SNR SANITARY NAPKIN RECEPTACLE | BOBRICK | CONTURA SERIES | SURFACE-MOUNT | B-270
GB GRAB BAR – WHEELCHAIR COMPARTMENT | BOBRICK | B-5806 SERIES
SHCR SHOWER CURTAIN ROD TO BE SELECTED AND PURCHASED BY OWNER
H-1 SINGLE | BOBRICK | B-212 | SSTL
H-3 TRIPLE | SAFCO PRODUCTS | NAIL HEAD HOOK RAIL | DIST IN SETS OF 12 | MODEL 4201 | SATIN ALUMINUM

TOILET PARTITIONS & URINAL SCREENS
TPART-1 PARTITIONS | ASI ACCURATE PARTITIONS | FLOOR-MOUNTED, OVERHEAD BRACED | STANDARD PRIVACY | SSTL SHOES | METAL | ENAMEL FINISH | GRAY 2125
TPART-2 SCREENS | ASI ACCURATE PARTITIONS | WALL-HUNG | SSTL BRACKETS | METAL | ENAMEL FINISH GRAY 2125

ACCESSORY GROUPS
AG-1 TOILET: SD, PTD, WR, TPD, SNR, GB-1, H-1, MIR-1
AG-2 MENS LOCKER: SD, PTD, WR, TPD, GB-1, MIR-1, MIR-2, GB-2, SS, SHCR, H-3 (6)
AG-3 WOMENS LOCKER: SD, PTD, WR, TPD, SNR, GB-1, MIR-1, MIR-2, GB-2, SS, SHCR, H-3 (6)

REMARKS
1. PL-1 JURY, SPECTATOR AND BENCH RAIL PANELS; WD-1 RAIL CAPS AND TRIM | PL-2 AND SLDS-1 COUNTERS; SEE DETAILS.
2. ACT-2 TYPICAL; ACT-1 AT ARENA AND JURY; PL-1 AT CANOPY ABOVE JUDGE'S BENCH; SEE REFLECTED CEILING PLAN FOR MATERIAL LOCATION SPECIFICATIONS.
3. FINISHES APPLIED ON NEW BALCONY STRUCTURE.
4. PROVIDE NEW GUARD RAIL.
5. PROVIDE BALLISTIC SHIELDING IN JUDGE'S BENCH AND CLERK WORKSTATION AS INDICATED. SEE INTERIOR DETIALS.
6. PROVIDE BALLISTIC SHIELDING AND GLAZING AS INDICATED. SEE INTERIOR DETAILS.
7. PROVIDE ACCENT PAINT COLOR AT ALL SURFACES OF PARTITION BETWEEN CLERK'S OFFICE, BREAK ROOM, AND COPIER/STORAGE.
8. MATCH EXISTING ACT AT INFILL AREA.
9. ACT-2 TYPICAL; ACT-1 AT ARENA AND JURY; GYP SOFFIT AT CANOPY ABOVE JUDGE'S BENCH. SEE REFLECTED CEILING PLAN FOR MATERIAL LOCATION SPECIFICATIONS.
10. NOT USED
11. RB-2 TYP, RB-1 AT INTERIOR OF JURY RAIL AND FACE OF JURY PLATFORM, WD-1 AT EXTERIOR OF BENCH, SPECTATOR RAIL, AND JURY PLATFORM. SEE INTERIOR DETAILS FOR EXTENT OF NON-TYPICAL BASE.
12. PATCH AND REPAIR AS NEEDED WHILE ADJACENT SPACES ARE UNDER CONSTRUCTION.
13. PROVIDE HIP-1 BELOW AWP IN THE JURY ALCOVE OF EACH COURTROOM. SEE INTERIOR ELEVATIONS FOR EXTENTS.
14. PROVIDE FULL HIEGHT HIP-1 BEHIND DRINKING FOUNTAIN. REFER TO INTERIOR ELEVATIONS FOR EXTENTS.
15. INSTALL CT-2B AT OUTSIDE EDGES AND CT-2C AT TOP OF WAINSCOT ON OUTSIDE EDGES THROUGHOUT LOCKER ROOMS 127 AND 128.
16. SEE INTERIOR ELEVATIONS FOR ZONES OF LOWER WAINSCOT TO OMIT TILE ABOVE SHOWER ENCLOSURE.
17. SEE G001 FOR BID ALTERNATE.

GENERAL FINISH NOTES
A. PRODUCT MANUFACTURER DESIGNATIONS INDICATE THE BASIS FOR QUALITY, PATTERN AND COLOR SELECTION.
B. SEE INTERIOR ELEVATIONS FOR LOCATIONS OF ACCENT/ FEATURE WALL FINISHES.
C. SEE FINISH PLANS, FOR EXTENT AND INSTALLATION PATTERN OF FLOORING AND/OR EXTENT OF ACCENT/ FEATURE FINISHES.
D. SEE INTERIOR DETAILS FOR FLOOR TRANSITIONS, BASE DETAILS AND CEILING TRANSITIONS.
E. PROVIDE MOISTURE-RESISTANT GYPSUM WALLBOARD (MRGYP) AT WALLS WITHIN 48" OF ALL PLUMBING FIXTURES.
F. PROVIDE CEMENTITIOUS BACKER UNITS (CBU) BEHIND ALL CERAMIC, PORCELAIN AND GLASS TILE AND WALL FINISHES. PROVIDE PAINTED MRGYP ABOVE.
G. WHERE IRGYP AND/OR ARGYP ARE INDICATED, PROVIDE SPECIAL PURPOSE GYPSUM BOARD TO +48" AFF AND TYPE-X GYPSUM BOARD ABOVE UNO.
H. PROVIDE A PRIME COAT AT WALLS IN UNEXPOSED AREAS CONCEALED BY CASEWORK, PANELING, WALL COVERINGS, AND OTHER FIXED ARCHITECTURAL ELEMENTS UNO.
I. EXTEND SCHEDULED WALL FINISHES AT AREAS EXPOSED BEHIND CASEWORK, STORAGE, PANELING, ETC, DUE TO REVEALS, JOINTS, KNEE SPACE, END CONDITIONS, UNO.
J. FINISH REVEALS AND FILLERS TO MATCH ADJACENT LIKE FEATURE (PAINT,PLASTIC LAMINATE, ETC.)
K. PROVIDE CORNER GUARDS AT ALL UNPROTECTED OUTSIDE GYP CORNERS UNO.
L. PROVIDE ALUMINUM J-MOLD TOP CAP AT INTEGRALLY-COVED BASE UNO.
M. PROVIDE RESILIENT TRANSITION ACCESSORIES AT ALL JOINTS BETWEEN DISSIMILAR FLOOR FINISHES, EXCEPT CARPET-TO-WALK-OFF, UNO.
N. REFER TO DOOR SCHEDULE AND HARDWARE GROUPS, AND PROVIDE THRESHOLD HARDWARE IN LIEU OF RESILIENT TRANSITIONS WHERE INDICATED.
O. WHERE CEILING INDICATED OTS, PAINT EXPOSED METAL DECK, STRUCTURE, DUCTS, CONDUIT, AND WIRE OR UNISTRUCT EQUIPMENT SUPPORTS, P-1 UNO.
P. PAINT INTERIOR RAILS, LADDERS AND MISCELLANEOUS METALS, P-2 UNO.
Q. PAINT INTERIOR HM DOORS AND FRAMES P-3 UNO.
R. PROVIDE SEALANT AT ALL EXPOSED JOINTS BETWEEN DISSIMILAR SURFACES AND JOINTS BETWEEN SURFACES IN DIFFERING PLANES, INCLUDING, BUT NOT LIMITED TO, RESILIENT FLOORING AT DOOR FRAMES, BACKSLASHES AT COUNTERS AND WALLS, INTEGRALLY COVED BASE AND WALL PROTECTION.

BETTISWORTH NORTH
CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA 49TH
Roy L. Rountree
No. A-8259
REGISTERED PROFESSIONAL ARCHITECT
2023-05-01

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

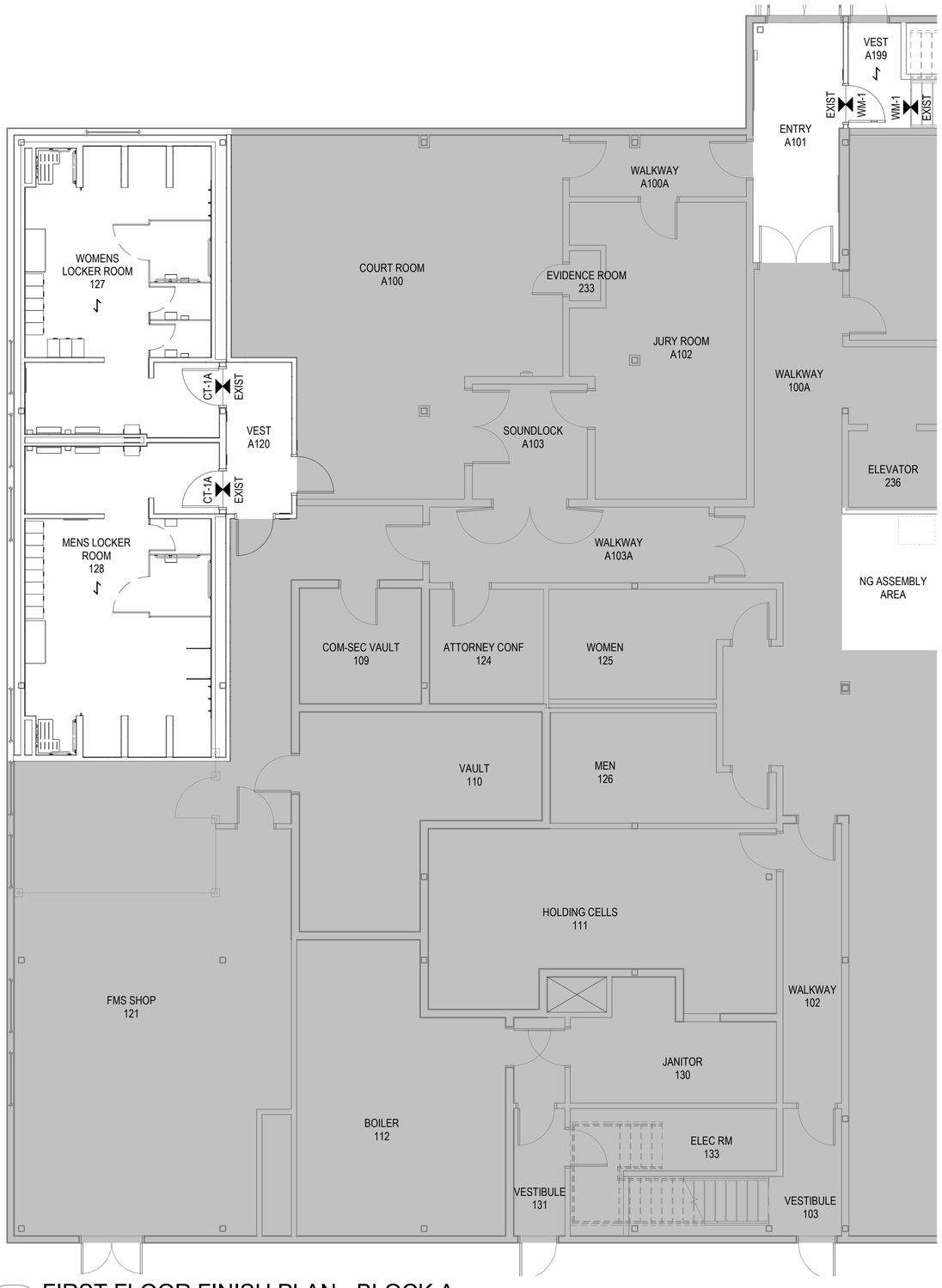
CONSULTANT:

PROJECT NO: 20-102
DATE: 2023-05-01
DRAWN BY: EG
CHECKED BY: DN

REVISION	DESCRIPTION	DATE

FINISH LEGEND

A913



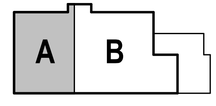
1 A914A FIRST FLOOR FINISH PLAN - BLOCK A
3/16" = 1'-0"

GENERAL FINISH PLAN NOTES

A. SEE INTERIOR ELEVATIONS AND FINISH SCHEDULE FOR ADDITIONAL FINISH INFORMATION.
B. DIMENSIONS, TARGETS, ETC. THAT ARE TYPICAL FOR MANY AREAS ARE NOTED ONLY ONCE.
C. FLOOR MATERIAL HATCHES ARE NOT INDICATIVE OF PATTERN. SEE FINISH LEGEND FOR INSTALLATION METHOD.
D. PROVIDE A PRIME COAT AT WALLS IN UNEXPOSED AREAS CONCEALED BY CASEWORK, PANELING, WALL COVERINGS, AND OTHER FIXED ARCHITECTURAL ELEMENTS UNO.
E. EXTEND SCHEDULED WALL FINISHES AT AREAS EXPOSED BEHIND CASEWORK, STORAGE, PANELING, ETC. DUE TO REVEALS, JOINTS, KNEE SPACE, END CONDITIONS UNO.
F. PROVIDE RESILIENT TRANSITION ACCESSORIES AT ALL JOINTS BETWEEN DISSIMILAR FLOOR FINISHES, EXCEPT CARPET-TO-WALK-OFF UNO.
G. PROVIDE TROWELABLE CEMENTITIOUS UNDERLAYMENT TO TAPER FLOORING SUBSTRATES FOR ZERO THRESHOLD TRANSITIONS BETWEEN DISSIMILAR FLOOR FINISHES.
H. REFER TO DOOR SCHEDULE AND HARDWARE GROUPS, AND PROVIDE THRESHOLD HARDWARE IN LIEU OF RESILIENT TRANSITIONS WHERE INDICATED.
I. SEE INTERIOR DETAILS FOR FLOOR TRANSITIONS, BASE DETAILS AND CEILING TRANSITIONS.
J. PROVIDE CORNER GUARDS AT ALL UNPROTECTED OUTSIDE GYP CORNERS UNO.
K. EXTEND SPECIFIED FLOORING UNDER CASEWORK UNO.
L. FINISHES WITHIN STORAGE CLOSETS SHALL BE CONSISTENT WITH FINISHES IN THE ADJACENT ROOM UNO.
M. PROVIDE WALL BASE ON ALL WALLS AND COLUMNS UNO.
N. TYPICAL WALL FINISH: P-1 UNO.

FINISH PLAN LEGEND

- DIRECTION OF MATERIAL
- XX-X / XX-X — FLOOR TRANSITION
- P-X — EXTENT OF ACCENT PAINT



TRUE NORTH PLAN NORTH

BETTISWORTH NORTH

STATE OF ALASKA 49TH
Roy L. Rountree
No. A-8259
REGISTERED PROFESSIONAL ARCHITECT
2023-05-01

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

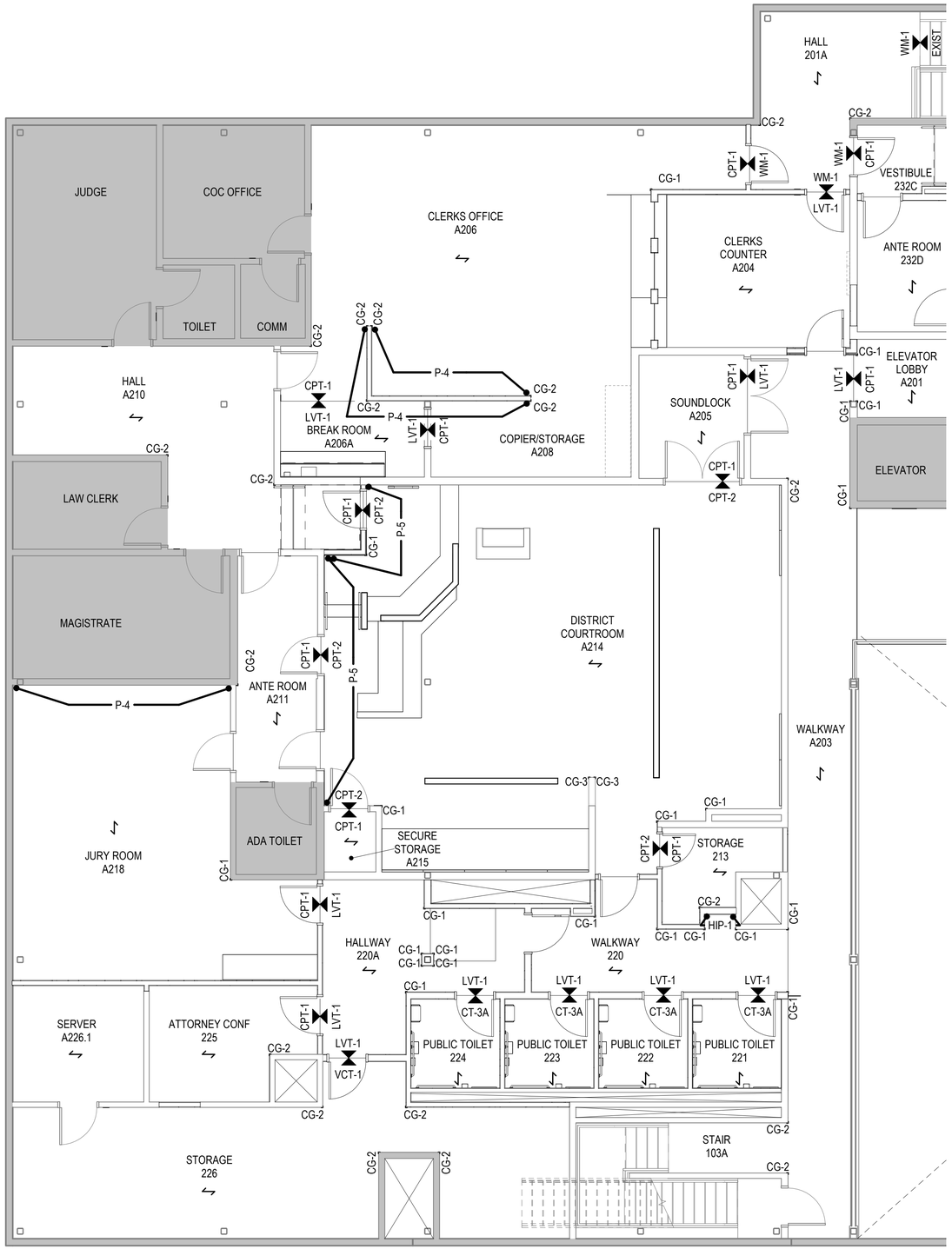
PROJECT NO:	20-102
DATE:	2023-05-01
DRAWN BY:	EG
CHECKED BY:	DN

REVISION	DESCRIPTION	DATE

FIRST FLOOR FINISH PLAN - BLOCK A

A914A

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM



1 A915A SECOND FLOOR FINISH PLAN - BLOCK A
3/16" = 1'-0"

GENERAL FINISH PLAN NOTES

A. SEE INTERIOR ELEVATIONS AND FINISH SCHEDULE FOR ADDITIONAL FINISH INFORMATION.
B. DIMENSIONS, TARGETS, ETC. THAT ARE TYPICAL FOR MANY AREAS ARE NOTED ONLY ONCE.
C. FLOOR MATERIAL HATCHES ARE NOT INDICATIVE OF PATTERN. SEE FINISH LEGEND FOR INSTALLATION METHOD.
D. PROVIDE A PRIME COAT AT WALLS IN UNEXPOSED AREAS CONCEALED BY CASEWORK, PANELING, WALL COVERINGS, AND OTHER FIXED ARCHITECTURAL ELEMENTS UNO.
E. EXTEND SCHEDULED WALL FINISHES AT AREAS EXPOSED BEHIND CASEWORK, STORAGE, PANELING, ETC. DUE TO REVEALS, JOINTS, KNEE SPACE, END CONDITIONS UNO.
F. PROVIDE RESILIENT TRANSITION ACCESSORIES AT ALL JOINTS BETWEEN DISSIMILAR FLOOR FINISHES, EXCEPT CARPET-TO-WALK-OFF UNO.
G. PROVIDE TROWELABLE CEMENTITIOUS UNDERLAYMENT TO TAPER FLOORING SUBSTRATES FOR ZERO THRESHOLD TRANSITIONS BETWEEN DISSIMILAR FLOOR FINISHES.
H. REFER TO DOOR SCHEDULE AND HARDWARE GROUPS, AND PROVIDE THRESHOLD HARDWARE IN LIEU OF RESILIENT TRANSITIONS WHERE INDICATED.
I. SEE INTERIOR DETAILS FOR FLOOR TRANSITIONS, BASE DETAILS AND CEILING TRANSITIONS.
J. PROVIDE CORNER GUARDS AT ALL UNPROTECTED OUTSIDE GYP CORNERS UNO.
K. EXTEND SPECIFIED FLOORING UNDER CASEWORK UNO.
L. FINISHES WITHIN STORAGE CLOSETS SHALL BE CONSISTENT WITH FINISHES IN THE ADJACENT ROOM UNO.
M. PROVIDE WALL BASE ON ALL WALLS AND COLUMNS UNO.
N. TYPICAL WALL FINISH: P-1 UNO.

FINISH PLAN LEGEND

- DIRECTION OF MATERIAL
- XX-X / XX-X — FLOOR TRANSITION
- P-X — EXTENT OF ACCENT PAINT

A B

TRUE NORTH PLAN NORTH

BETTISWORTH NORTH
CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA 49TH
Roy L. Rountree No. A-8259
REGISTERED PROFESSIONAL ARCHITECT
2023-05-01

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

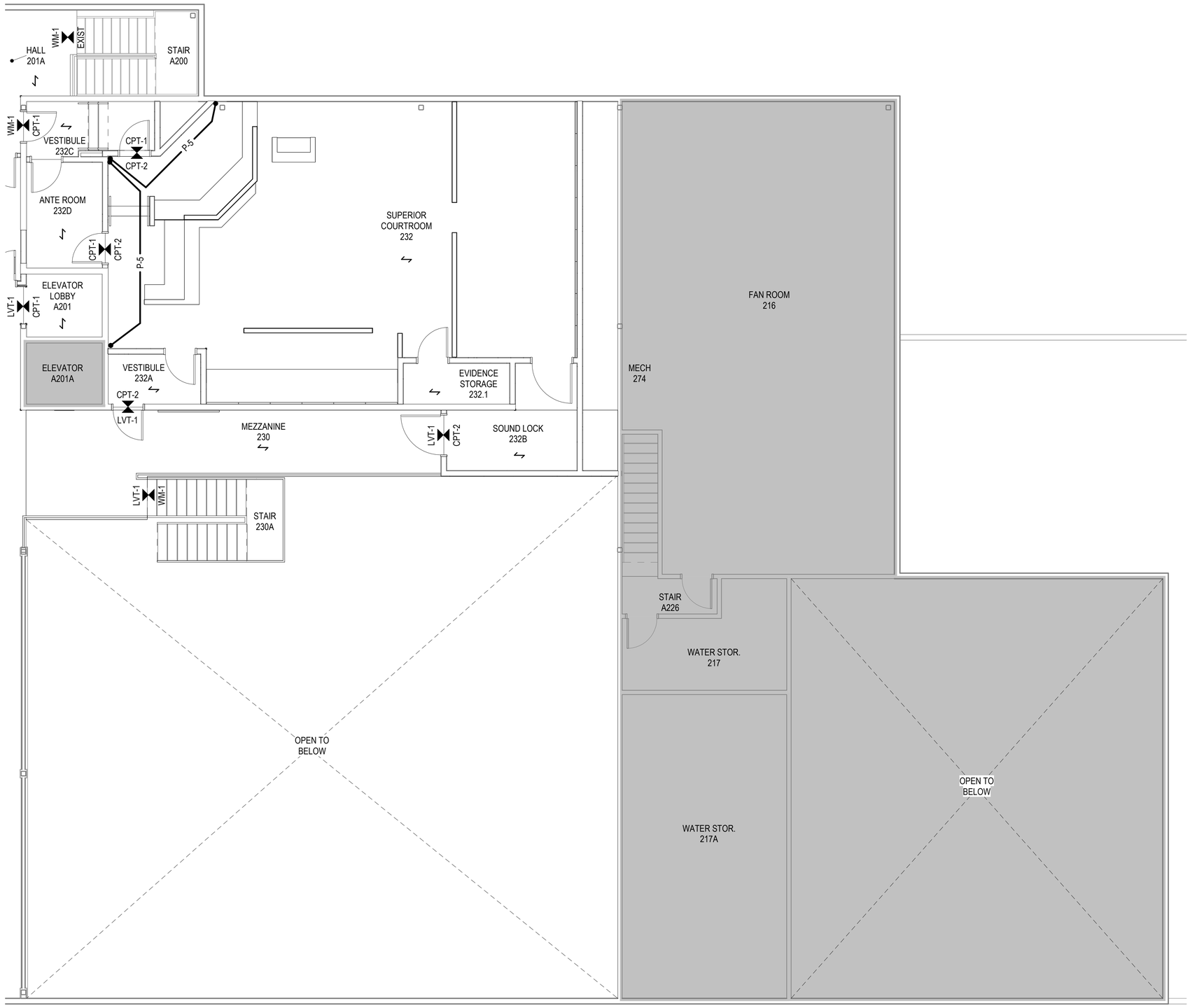
CONSULTANT:

PROJECT NO:	20-102
DATE:	2023-05-01
DRAWN BY:	EG
CHECKED BY:	DN

REVISION	DESCRIPTION	DATE

SECOND FLOOR FINISH PLAN - BLOCK A

A915A



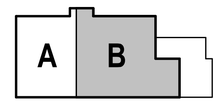
1 A915B SECOND FLOOR FINISH PLAN - BLOCK B
3/16" = 1'-0"

GENERAL FINISH PLAN NOTES

A. SEE INTERIOR ELEVATIONS AND FINISH SCHEDULE FOR ADDITIONAL FINISH INFORMATION.
B. DIMENSIONS, TARGETS, ETC. THAT ARE TYPICAL FOR MANY AREAS ARE NOTED ONLY ONCE.
C. FLOOR MATERIAL HATCHES ARE NOT INDICATIVE OF PATTERN. SEE FINISH LEGEND FOR INSTALLATION METHOD.
D. PROVIDE A PRIME COAT AT WALLS IN UNEXPOSED AREAS CONCEALED BY CASEWORK, PANELING, WALL COVERINGS, AND OTHER FIXED ARCHITECTURAL ELEMENTS UNO.
E. EXTEND SCHEDULED WALL FINISHES AT AREAS EXPOSED BEHIND CASEWORK, STORAGE, PANELING, ETC. DUE TO REVEALS, JOINTS, KNEE SPACE, END CONDITIONS UNO.
F. PROVIDE RESILIENT TRANSITION ACCESSORIES AT ALL JOINTS BETWEEN DISSIMILAR FLOOR FINISHES, EXCEPT CARPET-TO-WALK-OFF UNO.
G. PROVIDE TROWELABLE CEMENTITIOUS UNDERLAYMENT TO TAPER FLOORING SUBSTRATES FOR ZERO THRESHOLD TRANSITIONS BETWEEN DISSIMILAR FLOOR FINISHES.
H. REFER TO DOOR SCHEDULE AND HARDWARE GROUPS, AND PROVIDE THRESHOLD HARDWARE IN LIEU OF RESILIENT TRANSITIONS WHERE INDICATED.
I. SEE INTERIOR DETAILS FOR FLOOR TRANSITIONS, BASE DETAILS AND CEILING TRANSITIONS.
J. PROVIDE CORNER GUARDS AT ALL UNPROTECTED OUTSIDE GYP CORNERS UNO.
K. EXTEND SPECIFIED FLOORING UNDER CASEWORK UNO.
L. FINISHES WITHIN STORAGE CLOSETS SHALL BE CONSISTENT WITH FINISHES IN THE ADJACENT ROOM UNO.
M. PROVIDE WALL BASE ON ALL WALLS AND COLUMNS UNO.
N. TYPICAL WALL FINISH: P-1 UNO.

FINISH PLAN LEGEND

- DIRECTION OF MATERIAL
- XX-X / XX-X — FLOOR TRANSITION
- P-X — EXTENT OF ACCENT PAINT



TRUE NORTH PLAN NORTH

BETTISWORTH NORTH

STATE OF ALASKA 49TH
Roy L. Rountree
No. A-8259
REGISTERED PROFESSIONAL ARCHITECT
2023-05-01

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

PROJECT NO:	20-102
DATE:	2023-05-01
DRAWN BY:	EG
CHECKED BY:	DN

REVISION	DESCRIPTION	DATE

SECOND FLOOR FINISH PLAN - BLOCK B

A915B

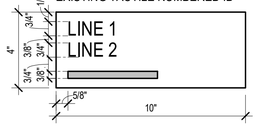
CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED. AFFECTING ALL LABELED SCALES

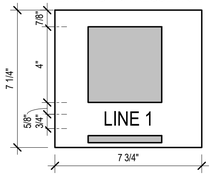
1" ACTUAL

SIGNAGE LEGEND

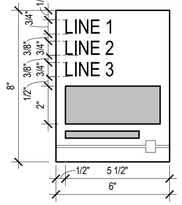
TYPE A.1
EXISTING TACTILE NUMBERED ID



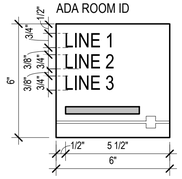
TYPE A.2
EXISTING ADA REGULATORY



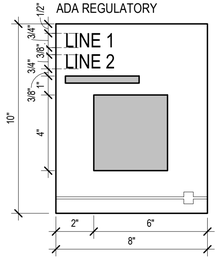
TYPE B.1
ADA ROOM ID W/ INSERT



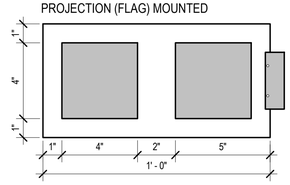
TYPE B.2
ADA ROOM ID



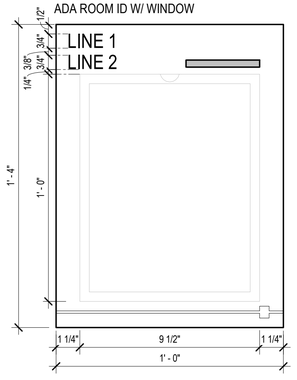
TYPE B.3
ADA REGULATORY



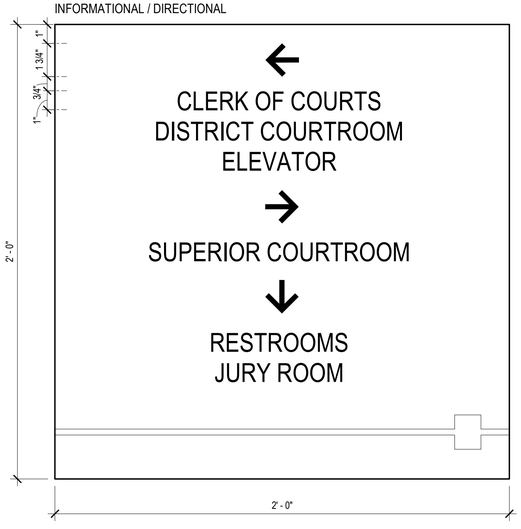
TYPE B.4
PROJECTION (FLAG) MOUNTED



TYPE B.5
ADA ROOM ID W/ WINDOW



TYPE B.6
INFORMATIONAL / DIRECTIONAL



PICTOGRAMS

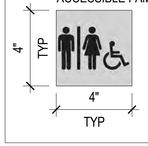
PICTO P6
ACCESSIBLE FAMILY RR

PICTO A4
ARROW

PICTO P43
DRINKING FOUNTAIN

PICTO P88
WOMEN'S SHOWER

PICTO P90
MEN'S SHOWER



SIGNAGE SCHEDULE

MARK	TYPE	SUBTYPE	MESSAGE NUMBER	MESSAGE TEXT	PICTOGRAM	REMARKS
121	A	1	-	AUTHORIZED ACCESS ONLY	-	
127	A	2	127	WOMEN	P88	
128	A	2	128	MEN	P90	
201A.1	B	2	-	AUTHORIZED ACCESS ONLY	-	
201A.2	B	2	-	AUTHORIZED ACCESS ONLY	-	
213	B	2	213	STORAGE	-	
221	B	3	221	RESTROOM	P6	
222	B	3	222	RESTROOM	P6	
223	B	3	223	RESTROOM	P6	
224	B	3	224	RESTROOM	P6	
225	B	2	225	CONFERENCE	-	
226	B	2	226	STORAGE	-	
230	B	6	-	-	A4	
232.1	B	2	232.1	STORAGE	-	
232.2	B	2	-	AUTHORIZED ACCESS ONLY	-	
232.3	B	2	-	AUTHORIZED ACCESS ONLY	-	
232A	B	2	-	AUTHORIZED ACCESS ONLY	-	
232B	B	5	-	SUPERIOR COURTROOM	-	
232C.1	B	2	-	AUTHORIZED ACCESS ONLY	-	
232C.2	B	2	-	AUTHORIZED ACCESS ONLY	-	
232D.1	B	2	-	AUTHORIZED ACCESS ONLY	-	
232D.2	B	2	-	AUTHORIZED ACCESS ONLY	-	
A120.1	A	1	A120	LOCKER ROOM ACCESS	-	
A120.2	A	1	A120	LOCKER ROOM ACCESS	-	
A199	A	1	-	AUTHORIZED ACCESS ONLY	-	
A203	B	4	-	-	P6, P43	
A204.1	B	2	A204	CLERKS OFFICE	-	
A204.2	B	2	A204	CLERKS COUNTER	-	
A205	B	5	A205	DISTRICT COURTROOM	-	
A207	B	1	A207	OFFICE	-	
A207A	B	2	A207A	COMM	-	
A209	B	1	A209	JUDGE	-	
A209A	B	3	A209A	RESTROOM	P6	
A210.1	B	2	-	AUTHORIZED ACCESS ONLY	-	
A210.2	B	2	-	AUTHORIZED ACCESS ONLY	-	
A211.1	B	2	-	AUTHORIZED ACCESS ONLY	-	
A211.2	B	2	-	AUTHORIZED ACCESS ONLY	-	
A211.3	B	2	-	AUTHORIZED ACCESS ONLY	-	
A211.4	B	2	-	AUTHORIZED ACCESS ONLY	-	
A212	B	1	A212	LAW CLERK	-	
A213	B	1	A213	MAGISTRATE	-	
A214.1	B	2	-	AUTHORIZED ACCESS ONLY	-	
A214.2	B	2	-	AUTHORIZED ACCESS ONLY	-	
A214.3	B	2	-	AUTHORIZED ACCESS ONLY	-	
A215	B	2	A215	STORAGE	-	
A217	B	3	A217	RESTROOM	P6	
A218	B	2	A218	JURY ROOM	-	
A226.1	B	2	A226.1	SERVER ROOM	-	

SIGNAGE LEGEND

TYPE A:
1. SIGN PANEL COLOR: MATCH EXISTING, UNO
2. MESSAGE COLOR: MATCH EXISTING, UNO
3. MESSAGE FONT: MATCH EXISTING, UNO
4. ALL SIGNS W/ TACTILE LETTERING SHALL HAVE CORRESPONDING TYPE II BRAILLE

TYPE B:
1. SIGN PANEL TYPE: INPRO, SANTA CRUZ COLLECTION
2. SIGN PANEL MATERIAL: PHOTOPOLYMER
3. SIGN FACE PLATE: FEATHER 0238
4. SIGN BACK PLATE: STORM CLOUD 0372
5. SIGN ACCENT: CASTLE 0256
6. MESSAGE COLOR: BLACK 102
7. MESSAGE FONT: ADA HELVETICA
8. ALL SIGNS W/ TACTILE LETTERING SHALL HAVE CORRESPONDING TYPE II BRAILLE

BETTISWORTH NORTH

STATE OF ALASKA
49TH
Roy L. Rountree
No. A-8259
REGISTERED PROFESSIONAL ARCHITECT
2023-05-01

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

ALASKA COURT SYSTEM

KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES

KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

PROJECT NO:	20-102
DATE:	2023-05-01
DRAWN BY:	EG
CHECKED BY:	DN

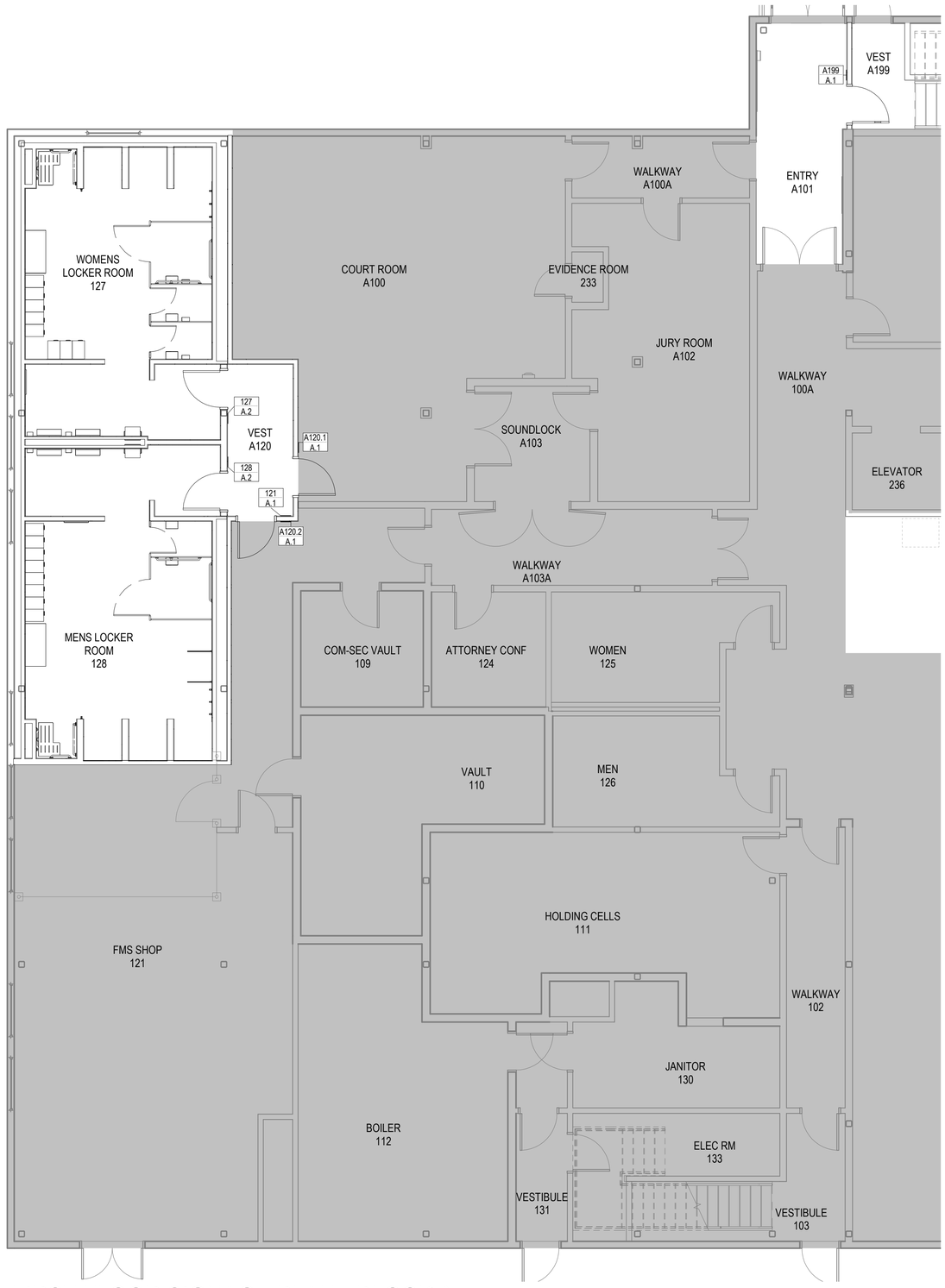
REVISION	DESCRIPTION	DATE

SIGN LEGEND & SCHEDULE

A916

Autodesk Docs://20-102 ACS Kotzebue CH/20-102 ACS KOTZ CH-A-Model.rvt

5/2/2023 9:42:39 AM



1 A917 FIRST FLOOR SIGNAGE PLAN - BLOCK A
3/16" = 1'-0"

SIGNAGE LEGEND

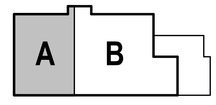
TYPE A:
1. SIGN PANEL COLOR: MATCH EXISTING, UNO
2. MESSAGE COLOR: MATCH EXISTING, UNO
3. MESSAGE FONT: MATCH EXISTING, UNO
4. ALL SIGNS W/ TACTILE LETTERING SHALL HAVE CORRESPONDING TYPE II BRAILLE

TYPE B:
1. SIGN PANEL TYPE: INPRO, SANTA CRUZ COLLECTION
2. SIGN PANEL MATERIAL: PHOTOPOLYMER
3. SIGN FACE PLATE: FEATHER 0238
4. SIGN BACK PLATE: STORM CLOUD 0372
5. SIGN ACCENT: CASTLE 0256
6. MESSAGE COLOR: BLACK 102
7. MESSAGE FONT: ADA HELVETICA
8. ALL SIGNS W/ TACTILE LETTERING SHALL HAVE CORRESPONDING TYPE II BRAILLE

GENERAL SIGNAGE NOTES

A. SEE SHEET A916 FOR SIGN TYPES AND MESSAGE SCHEDULE
B. SEE SHEET A701 FOR TYPICAL MOUNTING HEIGHTS

XXXX — SIGN MARK
X.X — SIGN TYPE



TRUE NORTH PLAN NORTH

BETTISWORTH NORTH

STATE OF ALASKA 49TH
Roy L. Rountree
No. A-8259
REGISTERED PROFESSIONAL ARCHITECT
2023-05-01

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

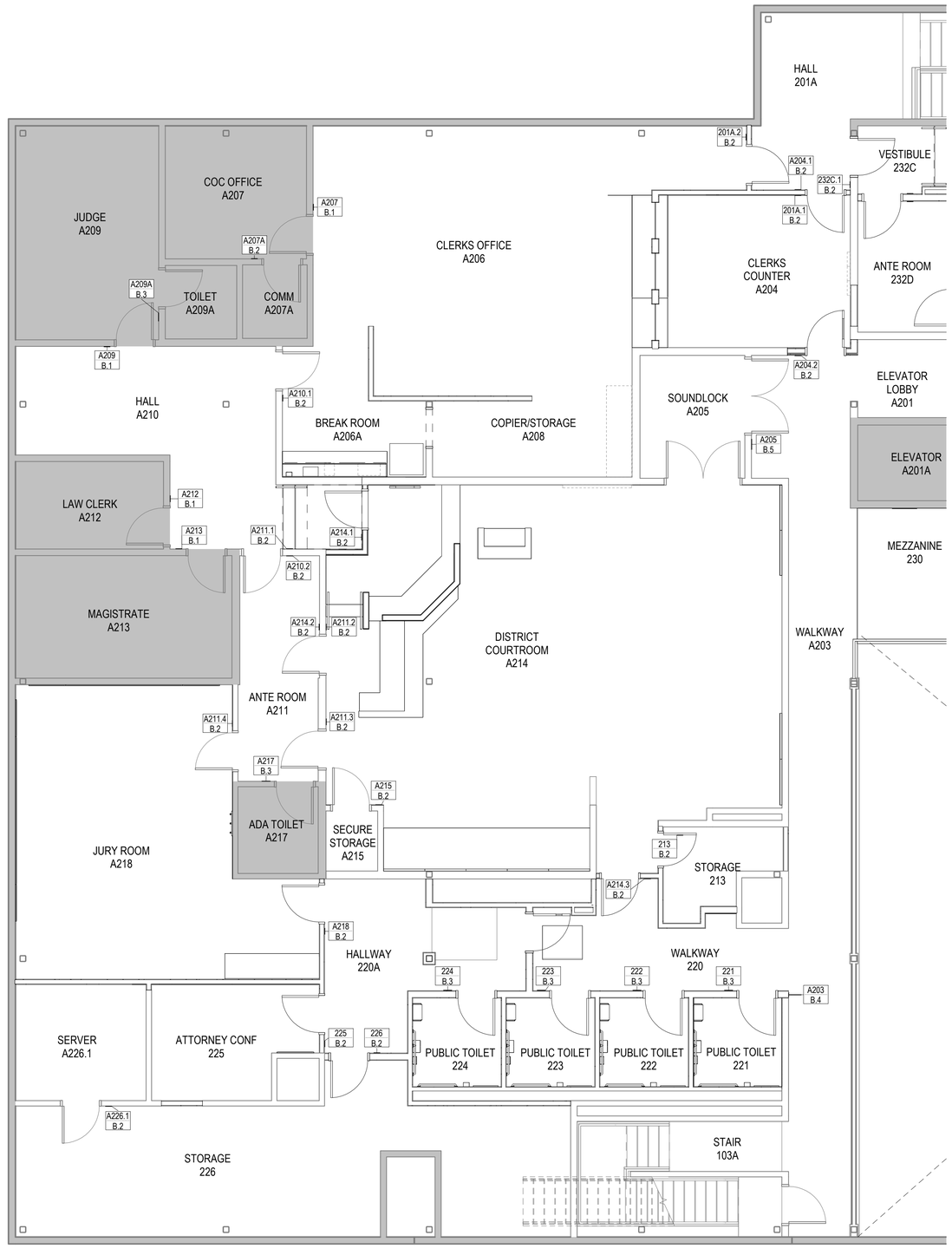
CONSULTANT:

PROJECT NO:	20-102
DATE:	2023-05-01
DRAWN BY:	EG
CHECKED BY:	DN

REVISION	DESCRIPTION	DATE

FIRST FLOOR SIGNAGE PLAN - BLOCK A

A917



1 / A918 SECOND FLOOR SIGNAGE PLAN - BLOCK A
3/16" = 1'-0"

SIGNAGE LEGEND

TYPE A:
1. SIGN PANEL COLOR: MATCH EXISTING, UNO
2. MESSAGE COLOR: MATCH EXISTING, UNO
3. MESSAGE FONT: MATCH EXISTING, UNO
4. ALL SIGNS W/ TACTILE LETTERING SHALL HAVE CORRESPONDING TYPE II BRAILLE

TYPE B:
1. SIGN PANEL TYPE: INPRO, SANTA CRUZ COLLECTION
2. SIGN PANEL MATERIAL: PHOTOPOLYMER
3. SIGN FACE PLATE: FEATHER 0238
4. SIGN BACK PLATE: STORM CLOUD 0372
5. SIGN ACCENT: CASTLE 0256
6. MESSAGE COLOR: BLACK 102
7. MESSAGE FONT: ADA HELVETICA
8. ALL SIGNS W/ TACTILE LETTERING SHALL HAVE CORRESPONDING TYPE II BRAILLE

GENERAL SIGNAGE NOTES

A. SEE SHEET A916 FOR SIGN TYPES AND MESSAGE SCHEDULE
B. SEE SHEET A701 FOR TYPICAL MOUNTING HEIGHTS

XXXX — SIGN MARK
X.X — SIGN TYPE

BETTISWORTH NORTH
CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA 49TH
Roy L. Rountree
No. A-8259
REGISTERED PROFESSIONAL ARCHITECT
2023-05-01

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

PROJECT NO:	20-102
DATE:	2023-05-01
DRAWN BY:	EG
CHECKED BY:	DN

REVISION	DESCRIPTION	DATE

A B

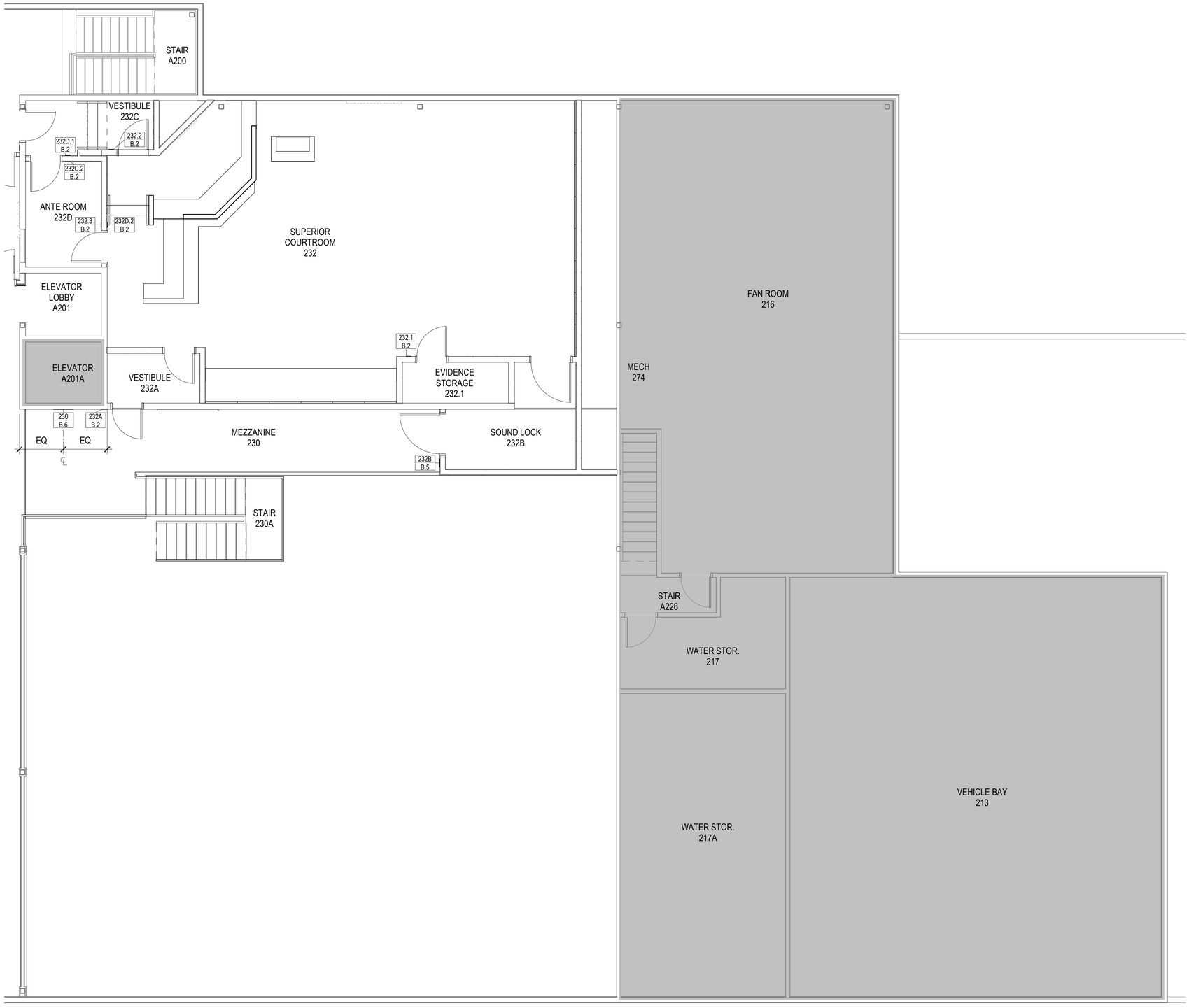
TRUE NORTH PLAN NORTH

SECOND FLOOR SIGNAGE PLAN - BLOCK A

A918

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED. AFFECTING ALL LABELED SCALES

1" ACTUAL



1 A919 SECOND FLOOR SIGNAGE PLAN - BLOCK B

3/16" = 1'-0"

SIGNAGE LEGEND

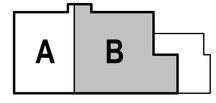
TYPE A:
1. SIGN PANEL COLOR: MATCH EXISTING, UNO
2. MESSAGE COLOR: MATCH EXISTING, UNO
3. MESSAGE FONT: MATCH EXISTING, UNO
4. ALL SIGNS W/ TACTILE LETTERING SHALL HAVE CORRESPONDING TYPE II BRAILLE

TYPE B:
1. SIGN PANEL TYPE: INPRO, SANTA CRUZ COLLECTION
2. SIGN PANEL MATERIAL: PHOTOPOLYMER
3. SIGN FACE PLATE: FEATHER 0238
4. SIGN BACK PLATE: STORM CLOUD 0372
5. SIGN ACCENT: CASTLE 0256
6. MESSAGE COLOR: BLACK 102
7. MESSAGE FONT: ADA HELVETICA
8. ALL SIGNS W/ TACTILE LETTERING SHALL HAVE CORRESPONDING TYPE II BRAILLE

GENERAL SIGNAGE NOTES

A. SEE SHEET A916 FOR SIGN TYPES AND MESSAGE SCHEDULE
B. SEE SHEET A701 FOR TYPICAL MOUNTING HEIGHTS

XXXX — SIGN MARK
X.X — SIGN TYPE



TRUE NORTH PLAN NORTH

BETTISWORTH NORTH

STATE OF ALASKA 49TH
Roy L. Rountree
No. A-8259
REGISTERED PROFESSIONAL ARCHITECT
2023-05-01

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

PROJECT NO:	20-102
DATE:	2023-05-01
DRAWN BY:	EG
CHECKED BY:	DN

REVISION	DESCRIPTION	DATE

SECOND FLOOR SIGNAGE PLAN - BLOCK B

A919

Autodesk Docs://20-102 ACS Kotzebue CH/20-102 ACS KOTZ CH-A-Model.rvt

5/2/2023 9:42:42 AM

TYPICAL ABBREVIATIONS

(A)	ABOVE
AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
ADJ	ADJACENT
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
ALT	ALTERNATE
ALUM	ALUMINUM
ARCH	ARCHITECT, ARCHITECTURAL
@	AT
APPROX	APPROXIMATELY
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING MATERIAL
AWS	AMERICAN WELDING SOCIETY
&	AND
(B)	BELOW
BD	BOARD
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BOD	BOTTOM OF DECK ELEVATION
BM	BEAM
BOT	BOTTOM
BRG	BEARING
BRK	BRICK
BSMT	BASEMENT
BTWN	BETWEEN
C	AMERICAN CHANNELS
CG	CENTER OF GRAVITY
CJ	CONSTRUCTION JOINT
CIP	CAST-IN-PLACE
CL	CENTER LINE
CJP	COMPLETE JOINT PENETRATION
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT, CONCRETE OPENING
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CSA	CONCRETE SCREW ANCHOR
CTJ	CONTROL JOINT, CONTRACTION JOINT
CTR	CENTER
CU	CUBIC
DBL	DOUBLE
DEPT	DEPARTMENT
DET	DETAIL
DIA, Ø	DIAMETER
DIAA	DRILLED-IN ADHESIVE ANCHOR
DIAB	DRILLED-IN ADHESIVE BOLT
DIAG	DIAGONAL
DIAPH	DIAPHRAGM
DIEB	DRILLED-IN EXPANSION BOLT
DIM	DIMENSION
DN	DOWN
do	DITTO
DP	DEEP
DWG	DRAWING
DWL	DOWEL
E	EAST
EA	EACH
EF	EACH FACE
EL	ELEVATION (HEIGHT)
ELEC	ELECTRICAL
ELEV	ELEVATOR
ENGR	ENGINEER
EOD	EDGE OF DECK
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE
EW	EACH WAY
EXIST, (E)	EXISTING
EXP	EXPANSION
EXT	EXTERIOR

FD	FLOOR DRAIN
FDN	FOUNDATION
FIN	FINISH, FINISHED
FF	FINISHED FLOOR
FLG	FLANGE
FLR	FLOOR
FOS	FACE OF STUDS
FRP	FIRE RESISTANT TREATED PLYWOOD
FRT	FIRE RESISTANT TREATED (LUMBER)
FS	FINISH SLAB ELEVATION, FAR SIDE
FT OR '	FOOT, FEET
FTG	FOOTING
FV	FIELD VERIFY
GA	GAUGE, GAGE
GALV	GALVANIZED
GEN	GENERAL
GL	GLUE LAMINATED
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HDG	HOT DIPPED GALVANIZED
HORIZ	HORIZONTAL
HP	HP STEEL SHAPE
HSB	HIGH STRENGTH BOLT
HSS	HOLLOW STRUCTRAL SECTION
HT	HEIGHT
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
IF	INSIDE FACE
IMP	INSULATED METAL PANEL
IN OR "	INCH
INCL	INCLUDE
INSUL	INSULATION, INSULATED, INSULATE
INT	INTERIOR
JT	JOINT
JST	JOIST
K	KIP, KIPS
KSI	KIPS PER SQUARE INCH
LB OR #	POUND
LLBB	LONG LEG BACK TO BACK
LLH	LONG LEGS HORIZONTAL
LLV	LONG LEGS VERTICAL
LONGIT	LONGITUDINAL
LSL	LONG SLOTTED HOLES
LT	LIGHT
LT WT	LIGHT WEIGHT
L	ANGLE
LVF	LOW VELOCITY FASTENERS
LVL	LAMINATED VENEER LUMBER
M	MISCELLANEOUS SHAPE
MATL	MATERIAL
MAX	MAXIMUM
MC	MISCELLANEOUS CHANNEL SECTION
MECH	MECHANICAL
MFR	MANUFACTURER
MFRG	MANUFACTURING
MIN	MINIMUM
MISC	MISCELLANEOUS
MT	STRUCTURAL TEE FROM M SERIES SECTION
MTL	METAL
N	NORTH
NDT	NON-DESTRUCTIVE TESTING
NF	NEAR FACE
NIC	NOT IN CONTRACT
No OR #	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
OVS	OVERSIZED

P/C	PRECAST
PEMB	PRE-ENGINEERED METAL BUILDING
PERP	PERPENDICULAR
PJ	PANEL JOINT
PL	PLATE (STEEL OR WOOD)
PLCS	PLACES
PLWD	PLYWOOD
PP	PARTIAL PENETRATION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
PT	PRESSURE TREATED
P/T	POST TENSION
PVC	POLYVINYL CHLORIDE
R	RADIUS
RD	ROOF DRAIN, ROUND
REF	REFERENCE
REINF	REINFORCING, REINFORCEMENT, REINFORCED
REQD	REQUIRED
RO	ROUGH OPENING
RS	RING SHANK
S	AMERICAN STANDARD STEEL SHAPE, SOUTH
SCHED	SCHEDULE
SEC	SECTION
SHT	SHEET
SHTG	SHEETING
SHTHG	SHEATHING
SIM	SIMILAR
SIP	STRUCTURAL INSULATED PANEL
SLBB	SHORT LEGS BACK TO BACK
SMS	SHEET METAL SCREWS
SOG	CONCRETE SLAB ON GRADE
SPA	SPACE, SPACING, SPACES
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SSL	SHORT SLOTTED HOLES
ST	STRUCTURAL T FROM S SERIES SECTION
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTURAL
SUPT	SUPPORT
SUSP	SUSPENDED
SYMM	SYMMETRICAL
T	TOP
T&G	TONGUE AND GROOVE
TEMP	TEMPERATURE, TEMPORARY
THK	THICK
THRU	THROUGH
TOB	TOP OF BEAM ELEVATION
TOC	TOP OF CONCRETE ELEVATION, TOP OF CMU ELEVATION
TOF	TOP OF FOOTING ELEVATION
TOS	TOP OF STEEL ELEVATION
TOSH	TOP OF SHEATHING ELEVATION
TOW	TOP OF WALL ELEVATION
TP	TOP OF PAVEMENT
TRANS	TRANSVERSE
TS	STRUCTURAL TUBE
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
UT	ULTRASONIC TEST
VERT	VERTICAL
W	WEST, W SERIES SECTION
W/	WITH
W/O	WITHOUT
WD	WOOD
WHS	WELDED HEADED STUD
WP	WORK POINT
WT	WEIGHT, STRUCTURAL TEE FROM W SERIES SECTION
WWF	WELDED WIRE FABRIC
YD	YARD

GENERAL NOTES

THE FOLLOWING NOTES APPLY UNLESS INDICATED OTHERWISE:

CODE:

INTERNATIONAL BUILDING CODE, 2021 EDITION.

DESIGN LOADS:

RISK CATEGORY	=	II, TYPICAL BUILDINGS
FLOORS		
UNIFORM	=	50 PSF
CONCENTRATED	=	2000 LB
PARTITIONS	=	15 PSF
CORRIDORS, STAIRS	=	100 PSF
MECHANICAL FLOORS	=	75 PSF

CONCRETE:

GROUT:

GROUT - 5000 PSI MINIMUM 7-DAY CUBE STRENGTH PER ASTM C1107. GROUT TO BE PREMIXED, NONMETALLIC, SHRINKAGE-RESISTANT GROUT PER ASTM C1107. USE SPECIFIC GROUT MIX RECOMMENDED BY MANUFACTURER FOR EACH GROUT APPLICATION AND FOLLOW MANUFACTURER'S INSTRUCTIONS.

DRILL-IN EXPANSION ANCHORS:

"POWER-STUD+ SD2" BY DEWALT OR APPROVED EQUAL. ICC-ES CERTIFICATION FOR SEISMIC RESISTANCE IN CRACKED CONCRETE REQUIRED. SPECIAL INSPECTION REQUIRED.

DRILL-IN ADHESIVE ANCHORS:

"PURE110+" ADHESIVE BY DEWALT OR APPROVED EQUAL. ICC-ES CERTIFICATION FOR SEISMIC RESISTANCE IN CRACKED CONCRETE REQUIRED. SPECIAL INSPECTION REQUIRED.

CONCRETE SCREW ANCHORS:

"SCREW-BOLT+" BY DEWALT OR APPROVED EQUAL. ICC-ES CERTIFICATION FOR SEISMIC LOAD RESISTANCE IN CRACKED CONCRETE REQUIRED. SPECIAL INSPECTION REQUIRED.

STRUCTURAL STEEL:

ALL STEEL ASTM A36, EXCEPT WIDE FLANGE SECTIONS TO BE ASTM A992, OR A572-50, TUBE SECTIONS TO BE ASTM A500 GRADE C. FABRICATION AND ERECTION PER AISC SPECIFICATIONS. SUBMIT SHOP DRAWINGS.

WELDING PER AWS D1.1. MINIMUM SIZE WELDS 3/16" CONTINUOUS FILLET. WELDERS CERTIFIED PER AMERICAN WELDING SOCIETY FOR ROD AND POSITION. ELECTRODES SHALL BE E70XX MINIMUM, WITH MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LB AT -20 DEG F.

BOLTS ASTM A307 TYPICAL BOLTED CONNECTIONS SNUG TIGHTENED.

APPLY ONE COAT OF SHOP PAINT TO ALL STEEL EXCEPT FOR CONTACT SURFACES IN BOLTED PARTS, SURFACES EMBEDDED IN CONCRETE, AREAS TO BE FIELD WELDED OR SURFACES WITH SPRAY-ON FIREPROOFING.

GLUED-LAMINATED TIMBER:

BEAMS AND GIRDERS - DOUGLAS FIR SPECIES, COMBINATION 24F-V4 FOR SIMPLE SPANS AND COMBINATION 24F-V8 FOR CONTINUOUS AND CANTILEVER SPANS, Fb = 2400PSI. FABRICATE PER ANSI/AITC A190.1. PROVIDE WET-USE ADHESIVES. MOISTURE CONTENT - 16 PERCENT MAXIMUM. USE MILD STEEL PLATE WASHERS AT ALL BOLT HEADS AND NUTS BEARING ON WOOD. TREAT WOOD BEARING ON OR WITHIN 1" OF MASONRY OR CONCRETE WITH PRESERVATIVE.

STRUCTURAL SAWN LUMBER:

LUMBER VISUALLY GRADED AND STAMPED PER WWPA STANDARD GRADING RULES. MOISTURE CONTENT OF LUMBER 2" OR LESS IN THICKNESS - 19 PERCENT MAXIMUM. STRUCTURAL LIGHT FRAMING – DOUGLAS FIR-LARCH SPECIES, #2 GRADE.

MINIMUM NAILING FOR CONNECTION OF VARIOUS COMPONENTS PER TABLE 2304.10.1 OF THE IBC. TREAT WOOD BEARING ON OR WITHIN 1" OF MASONRY OR CONCRETE WITH PRESERVATIVE. USE MILD STEEL PLATE WASHERS AT ALL BOLT HEADS AND NUTS BEARING ON WOOD.

NAIL SIZES UNLESS OTHERWISE NOTED:
8d COMMON – 0.131" DIA X 2 ½"
10d COMMON – 0.148" DIA X 3"
16d COMMON – 0.162" DIA X 3 ½"

SHEATHING:

SHEATHING GRADE - CD EXPOSURE 1 WITH EXTERIOR GLUE LAID FACE GRAIN PERPENDICULAR TO SUPPORT. SHEATHING MAY BE PLYWOOD OR ORIENTED STRAND BOARD.

FLOOR SHEATHING - 1 1/8" THICK, T & G EDGES. 10d NAILING: 6" OC EDGES, 12" OC TYPICAL SUPPORTS.
WALL SHEATHING - 15/16" THICK, SPAN RATING 32/16. 8d NAILING: 6" OC EDGES, 12" OC TYPICAL SUPPORTS.

MISCELLANEOUS:

CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED. IF THE EXISTING CONDITIONS DO NOT CLOSELY MATCH THE CONDITIONS SHOWN ON THE DRAWINGS, OR IF THE EXISTING MATERIALS ARE OF SUBSTANDARD QUALITY, NOTIFY THE ARCHITECT PRIOR TO COMMENCING ANY WORK.

DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER.

REFER TO ARCHITECTURAL DRAWINGS FOR WALL OPENINGS, ARCHITECTURAL TREATMENT AND DIMENSIONS NOT SHOWN.

SHOP DRAWINGS SHALL BE SUBMITTED AND REVIEWED PRIOR TO FABRICATION.

BETTISWORTH NORTH

STATE OF ALASKA 49 TH
GREG LATREILLE
05/01/2023
SE 13870
REGISTERED STRUCTURAL ENGINEER

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:
BBFM Engineers Inc.
845 K Street
Anchorage, AK 99501
Phone: (907) 274-2236 Fax: 274-2520
Corporate Authorization No: C725

PROJECT NO:	20-102
DATE:	2023-05-01
DRAWN BY:	REB
CHECKED BY:	WN

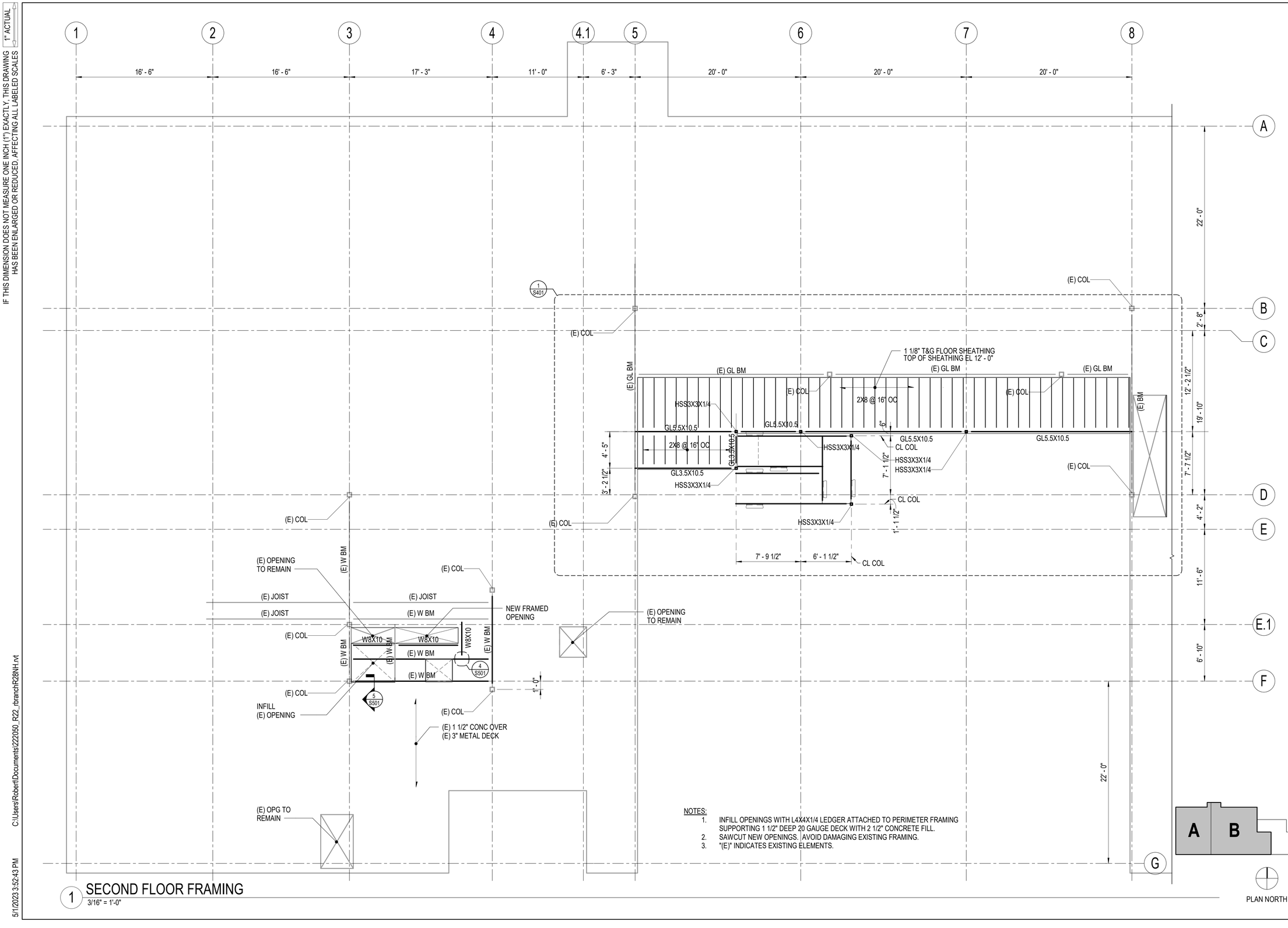
REVISION	DESCRIPTION	DATE

ABBREVIATIONS AND GENERAL NOTES

S001

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED. AFFECTING ALL LABELED SCALES

1" ACTUAL



1 SECOND FLOOR FRAMING
3/16" = 1'-0"

NOTES:
1. INFILL OPENINGS WITH L4X4X1/4 LEDGER ATTACHED TO PERIMETER FRAMING SUPPORTING 1 1/2" DEEP 20 GAUGE DECK WITH 2 1/2" CONCRETE FILL.
2. SAWCUT NEW OPENINGS. AVOID DAMAGING EXISTING FRAMING.
3. "(E)" INDICATES EXISTING ELEMENTS.

BETTISWORTH NORTH

STATE OF ALASKA
49 TH
GREG LATREILLE
05/01/2023
SE 13870
REGISTERED STRUCTURAL ENGINEER

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

ALASKA COURT SYSTEM

KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES

KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

BBFM Engineers Inc.
845 K Street
Anchorage, AK 99501
Phone: (907) 274-2236 Fax: 274-2520
Corporate Authorization No: C725

PROJECT NO:	20-102
DATE:	2023-05-01
DRAWN BY:	REB
CHECKED BY:	WN

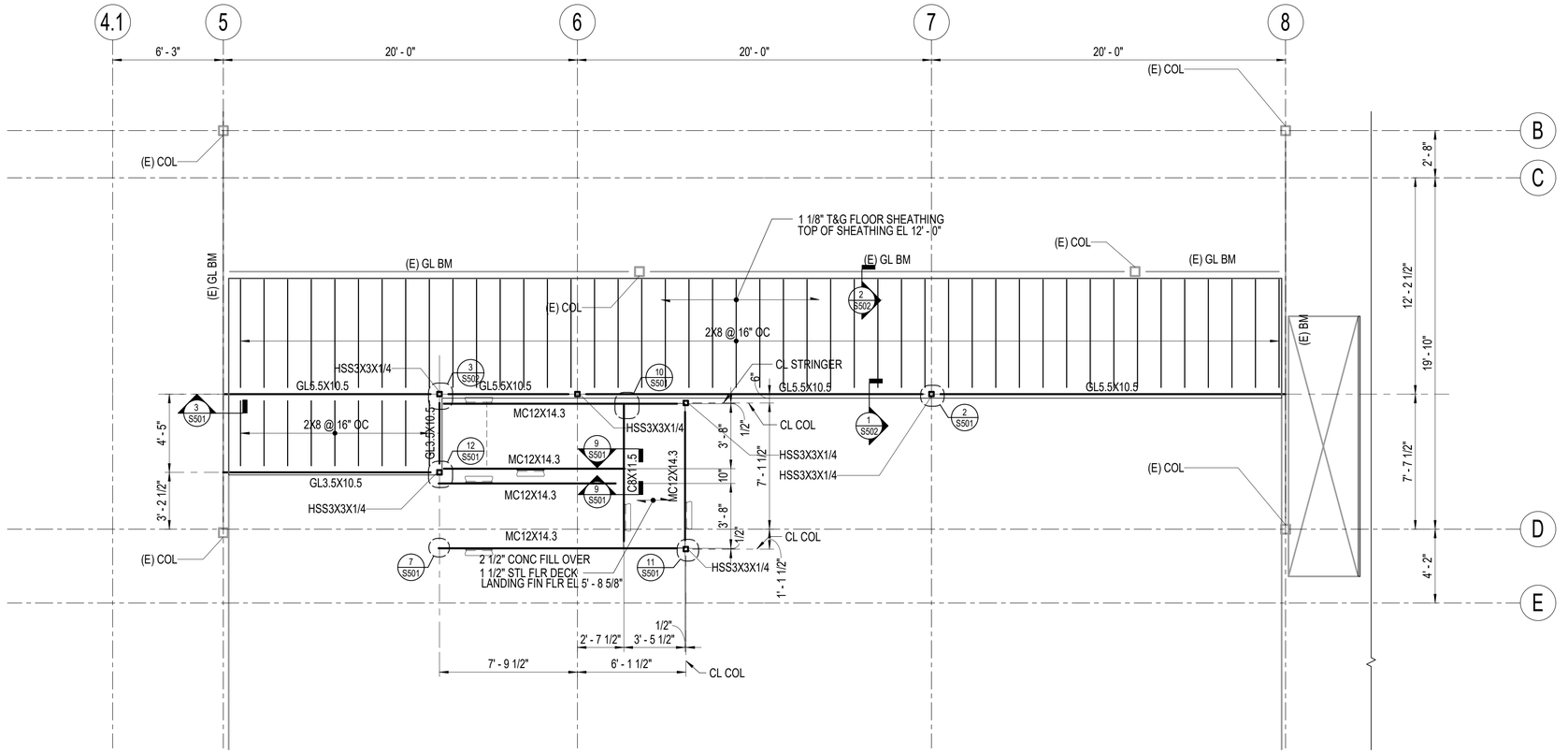
REVISION	DESCRIPTION	DATE

SECOND FLOOR FRAMING - OVERALL

S110

C:\Users\RobertDocuments\222050_R22_rbranchR28NH.rvt

5/1/2023 3:52:43 PM



NOTE:
COLUMN BASE CONNECTION PER DETAIL 1/S501.

1 ENLARGED SECOND FLOOR FRAMING PLAN

1/4" = 1'-0"

PLAN NORTH

BETTISWORTH NORTH
CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
49 TH
GREG LATREILLE
05/01/2023
SE 13870
REGISTERED STRUCTURAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:
BBFM Engineers Inc.
845 K Street
Anchorage, AK 99501
Phone: (907) 274-2236 Fax: 274-2520
Corporate Authorization No: C725

PROJECT NO:	20-102
DATE:	2023-05-01
DRAWN BY:	CMS
CHECKED BY:	WN

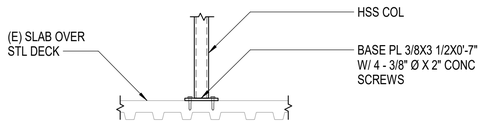
REVISION	DESCRIPTION	DATE

ENLARGED PLANS

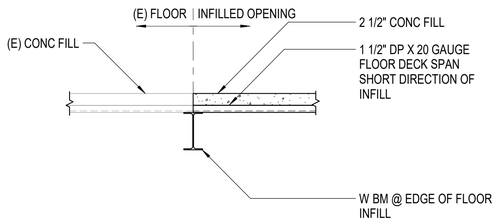
S401

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED. AFFECTING ALL LABELED SCALES

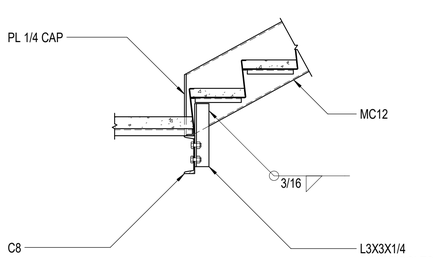
1" ACTUAL



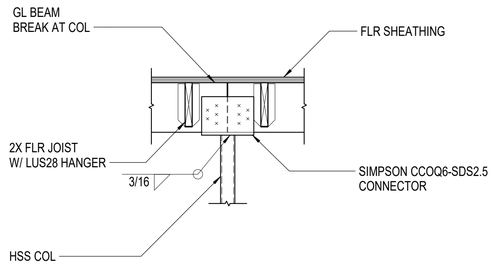
1 HSS COL @ (E) DECK
3/4" = 1'-0"



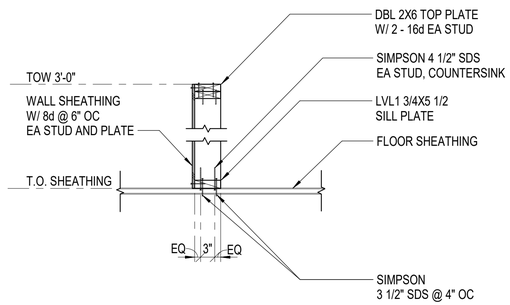
5 (E) OPENING INFILL
3/4" = 1'-0"



9 STRINGER TO C8 LANDING
3/4" = 1'-0"

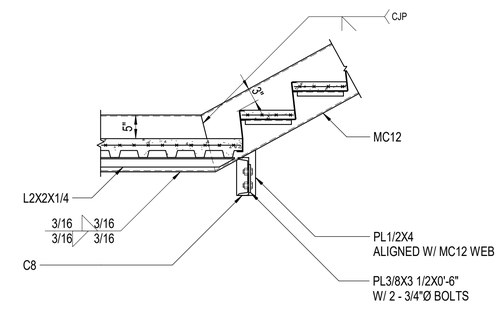


2 GL BMS TO POST
3/4" = 1'-0"

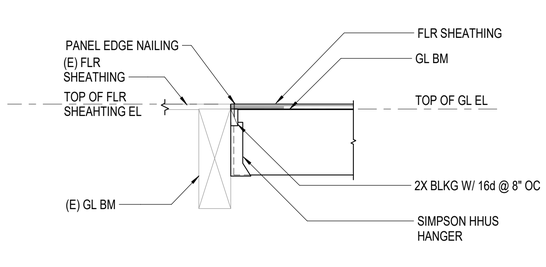


NOTE:
SEE ARCH FOR LOCATIONS.

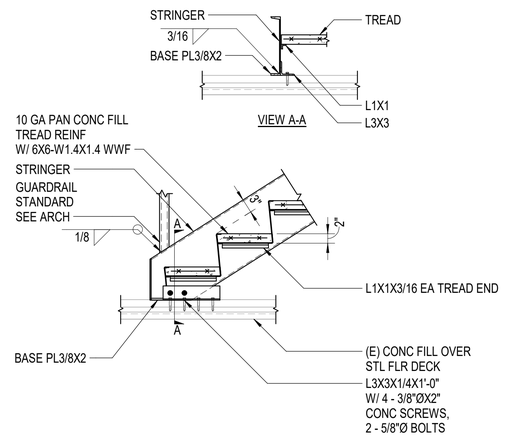
6 COURTROOM DIVIDER WALL
3/4" = 1'-0"



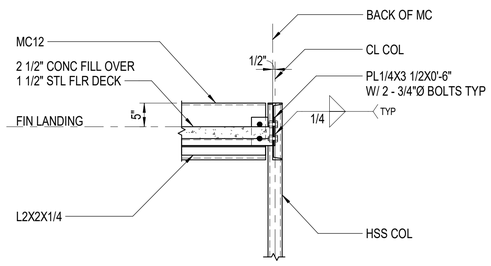
10 BENT STRINGER
3/4" = 1'-0"



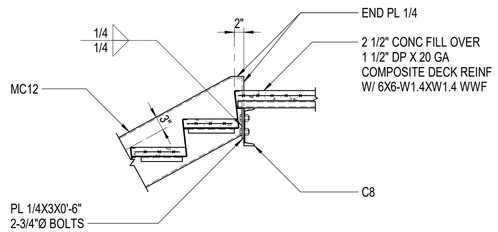
3 GL BM TO (E) GL BM
3/4" = 1'-0"



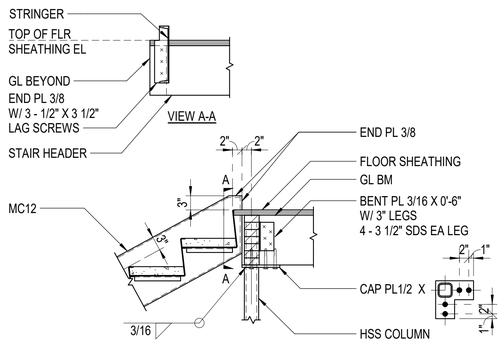
7 STAIR TO FLOOR
3/4" = 1'-0"



11 STRINGER TO COLUMN
3/4" = 1'-0"



8 W BM TO W BM
3/4" = 1'-0"



12 STRINGER TO C8
3/4" = 1'-0"

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
49 TH
GREG LATREILLE
05/01/2023
SE 13870
REGISTERED STRUCTURAL ENGINEER

ALASKA COURT SYSTEM

KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES

KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

BBFM Engineers Inc.
845 K Street
Anchorage, AK 99501
Phone: (907) 274-2236 Fax: 274-2520
Corporate Authorization No: C725

PROJECT NO:	20-102
DATE:	2023-05-01
DRAWN BY:	Author
CHECKED BY:	Checker

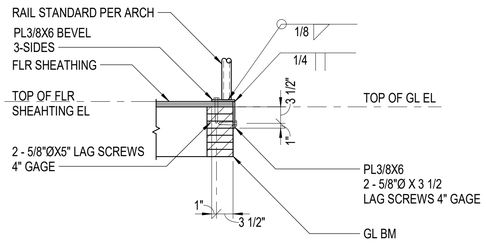
REVISION	DESCRIPTION	DATE

DETAILS

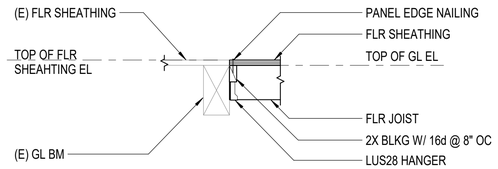
S501

C:\Users\Robert\Documents\222050_R22_rbranchR28NH.rvt

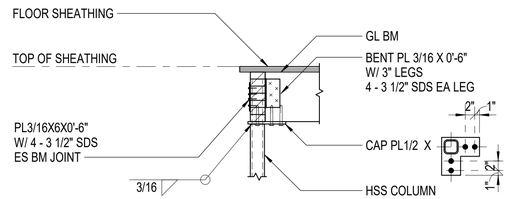
5/1/2023 3:52:45 PM



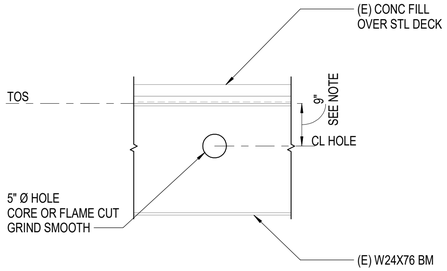
1 GUARD RAIL SUPPORT
3/4" = 1'-0"



2 FLOOR JOIST TO (E) GL BM
3/4" = 1'-0"



3 INTERSECTION BM AT COL
3/4" = 1'-0"



NOTE:
CENTERLINE OF HOLE MINIMUM DISTANCE TO TOP OF BEAM IS 7", MAXIMUM DISTANCE IS 18". SEE SHEET M201 FOR LOCATIONS.

4 4" WASTE PIPE ROUTING BEAM PENETRATION
3/4" = 1'-0"

BETTISWORTH NORTH
CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA 49 TH
GREG LATREILLE
05/01/2023
SE 13870
REGISTERED STRUCTURAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:
BBFM Engineers Inc.
845 K Street
Anchorage, AK 99501
Phone: (907) 274-2236 Fax: 274-2520
Corporate Authorization No: C725

PROJECT NO:	20-102
DATE:	2023-05-01
DRAWN BY:	CMS
CHECKED BY:	WN

REVISION	DESCRIPTION	DATE

DETAILS

S502

1" ACTUAL

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

PIPING LEGEND

- DENOTES DEMOLITION
- WASTE
- VENT PIPING
- COLD WATER
- HOT WATER
- HOT WATER RECIRCULATED
- XXX — SEE ABBREVIATIONS FOR MEDIA
- PIPE UP
- PIPE DOWN
- TEE UP
- TEE DOWN
- CAP
- UNION
- DIRECTION OF FLOW

DUCTWORK LEGEND

- THERMOSTAT OR SENSOR
- THERMOSTAT WITH GUARD
- SUPPLY AIR UP & DOWN
- EXHAUST AIR UP & DOWN
- ROUND DUCT UP & DOWN
- VOLUME DAMPER
- SOUND LINED DUCTWORK
- 12/24 — DUCT SIZE (FIRST FIGURE – SIDE SHOWN) (SECOND FIGURE – SIDE NOT SHOWN)
- FLEXIBLE DUCT

LOGIC

- POINT OF CONNECTION
- 5 / M2 — DETAIL NUMBER, SHEET LOCATED ON
- DIRECTION OF VIEW
- 5 / M2 — SECTION NUMBER, SHEET LOCATED ON
- TAG — SHEET NOTES
- X CONNECTION — NECK SIZE
- CFM — CFM, DIFFUSER OR GRILLE TYPE

ABBREVIATIONS

ADA	AMERICAN WITH DISABILITIES ACT GUIDELINES	HWS	HOT WATER SUPPLY
AMPS	AMPERES	HWR	HOT WATER RETURN
ARCH	ARCHITECTURAL	IN	INCHES
BLDG	BUILDING	IN. WC.	INCHES WATER COLUMN
BTUH	BRITISH THERMAL UNIT/HOUR	LAT	LEAVING AIR TEMPERATURE
CAP	CAPACITY	LWT	LEAVING WATER TEMPERATURE
CFM	CUBIC FEET PER MINUTE	MBH	THOUSAND BTUH
CIRC	CIRCULATING	MFGR	MANUFACTURER
C.O./CO	CLEANOUT	MIN	MINIMUM
CONN	CONNECTION	MTD	MOUNTED
CW	COLD WATER	NC	NOISE CRITERIA
DDC	DIRECT DIGITAL CONTROL	N.C.	NORMALLY CLOSED
DEG	DEGREE	N.O.	NORMALLY OPEN
DIA	DIAMETER	OL	OVERFLOW LEADER
DN	DOWN	P–X	PLUMBING FIXTURE DESIGNATOR
E/A	EXHAUST AIR	PD	PRESSURE DROP
EAT	ENTERING AIR TEMPERATURE	PH	PHASE
EF–X	EXHAUST FAN DESIGNATOR	PSI	POUND PER SQUARE INCH
ESP	EXTERNAL STATIC PRESSURE	R/A	RETURN AIR
EXIST	EXISTING	RL	RAIN LEADER
F	FAHRENHEIT	RPM	REVOLUTIONS PER MINUTE
FT	FEET	S/A	SUPPLY AIR
FT–X	FINNED TUBE RADIATION DESIGNATOR	SP	STATIC PRESSURE
FCO	FLOOR CLEAN OUT	T/A	TRANSFER AIR
FLA	FULL LOAD AMPS	TEMP	TEMPERATURE
FT	FEET	T'STAT	THERMOSTAT
GA	GAUGE	TYP	TYPICAL
GAL	GALLONS	V	VENT
GPH	GALLONS PER HOUR	VTR	VENT THRU ROOF
GPM	GALLONS PER MINUTE	W	WASTE
HD	HEAD	WC	WATER COLUMN
HP	HORSEPOWER	WG	WATER GAUGE
HW	HOT WATER	WHA	WATER HAMMER ARRESTOR
HWC	HOT WATER CIRCULATED	WPD	WATER PRESSURE DROP

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	MANUFACTURER	MODEL	CW	HW/TW	WASTE	VENT	TRAP	COLOR/FINISH	TRIM/REMARKS
P–1	WATER CLOSET	AMERICAN STANDARD	AFWALL – 3351.101	1"	--	4"	2"	--	WHITE	PROVIDE WITH WALL CARRIER, ELONGATED SEAT, AND SLOAN ROYAL MODEL 111 FLUSH VALVE, 1.28 GPF.
P–1A	WATER CLOSET – ADA	AMERICAN STANDARD	AFWALL – 3351.101	1"	--	4"	2"	--	WHITE	PROVIDE WITH WALL CARRIER, ELONGATED SEAT, AND SLOAN ROYAL MODEL 111 FLUSH VALVE, 1.28 GPF. MOUNT AT ADA HEIGHT.
P–2	URINAL	AMERICAN STANDARD	WASHBROOK	1/2"	--	2"	1–1/2"	1–1/2"	WHITE	PROVIDE WITH WALL CARRIER, AND SLOAN ROYAL MODEL 186–1.0 FLUSH VALVE, 1.0 GPF.
P–3	LAVATORY – WALL	AMERICAN STANDARD	LUCERNE – 0355.012	1/2"	1/2"	1–1/2"	1–1/4"	1–1/4"	WHITE	PROVIDE WITH WALL CARRIER, DELTA FAUCET MODEL 516LF–HDF, GRID DRAIN, & TRAP ARM.
P–4	SHOWER STALL	AQUATIC BATH	1363BFSD	1/2"	1/2"	1–1/2"	1–1/4"	1–1/4"	WHITE	PROVIDE WITH DELTA MODEL R10000–UN SHOWER VALVE & DELTA MODEL T13220 SHOWER FAUCET.
P–4A	SHOWER STALL – ADA	AQUATIC BATH	1363BFSD	1/2"	1/2"	1–1/2"	1–1/4"	1–1/4"	WHITE	ADA TRANSFER SHOWER. PROVIDE WITHDELTA MODEL R10000–UN SHOWER VALVE & DELTA MODEL T13220 SHOWER FAUCET.
P–5	BREAK ROOM SINK	JUST	SL–2131–A–GR	1/2"	1/2"	1–1/2"	1–1/4"	1–1/4"	STAINLESS	PROVIDE WITH DELTA FAUCET MODEL 470, SNAP–N–LOC BASKET STRAINER, & TRAP ARM.
P–6	DRINKING FOUNTAIN WITH BOTTLE FILLER	--	--	1/2"	--	1–1/2"	1–1/4"	1–1/4"	--	OWNER FURNISHED, CONTRACTOR INSTALLED.

RADIANT PANEL SCHEDULE

SYMBOL	MANUFACTURER	MODEL	EGT	LGT	GPM	PD (FT HD)	BTU/FT	PANEL SIZE	REMARKS
RP–1,2,3	STERLING	LINEAR	180	160	PER PLANS	--	576	20 FT L x 36" W	6 PASSES

RADIATION SCHEDULE

SYMBOL	MANUFACTURER	MODEL	# ROWS	ELEMENT	FPF	ENCLOSURE	GPM	MEDIUM	EGT DEG F	LGT DEG F	EAT DEG F	BTU/LF	REMARKS
FT–1	MODINE	CP	1	4–1/4"X4–1/4", 3/4" COPPER TUBE	50	NO ENCLOSURE	5.0	50% PG	180	160	65	980	BARE ELEMENT.

HEATING COIL SCHEDULE

					AIR P.D.	FACE VEL.	EAT	LAT			EGT	LGT	WPD	
SYMBOL	MANUFACTURER	MODEL	SIZE	CFM	IN. W.C.	FPM	DEG F	DEG F	GPM	MEDIUM	DEG F	DEG F	FT HD	REMARKS
HC–1	DAIKIN	5WQ0701C	27"H X 28"L	2500	0.12	476	0	40.5	8.1	50% PG	180	150	2.3	PROVIDED WITH AHU–1.

AIR INLET/OUTLET SCHEDULE

SYMBOL	MANUFACTURER	MODEL	TYPE	USE	MATERIAL	FINISH	CFM	FACE SIZE (IN.)	NC	REMARKS
A	TITUS	TDC	CEILING	SUPPLY	STEEL	WHITE	PER PLANS	24"x24"	<25	COORDINATE BORDER TYPE WITH CEILING. PROVIDE WITH EARTHQUAKE TABS. INSTALL FLEX DUCT AND VOLUME DAMPER FOR BALANCING PER PLANS.
B	TITUS	45F	CEILING	RETURN/TRANSFER	ALUMINUM	WHITE	PER PLANS	24"x24"	<25	COORDINATE BORDER TYPE WITH CEILING. PROVIDE WITH EARTHQUAKE TABS.
C	TITUS	45F	CEILING	EXHAUST	ALUMINUM	WHITE	PER PLANS	8"x8"	<25	COORDINATE BORDER TYPE WITH CEILING. PROVIDE WITH EARTHQUAKE TABS.
D	TITUS	TMRA	DUCT	SUPPLY	ALUMINUM	WHITE	PER PLANS	8"ø	<25	---

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA — 10TH — R.R. DIESTEFANO — ME-8973 — 5/1/23 — REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM

KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES

KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

RSA

Mechanical and Electrical Consulting Engineers

670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	CAA
CHECKED BY:	RRD/MRB

REVISION	DESCRIPTION	DATE

MECHANICAL LEGEND AND SCHEDULES

M001

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL

FAN SCHEDULE

SYMBOL	MANUFACTURER	MODEL	TYPE	SERVICE	CFM	TSP IN W.C.	RPM	MOTOR DATA WATTS	MOTOR DATA POWER	DRIVE	SONES	REMARKS
TEF-1	GREENHECK	SP-A510-VG	CEILING	WOMEN'S LOCKER ROOM 127	410	0.25	1047	75	120/60/1	DIRECT	5.5	INTERLOCK WITH LIGHTING CIRCUIT.
TEF-2	GREENHECK	SP-A510-VG	CEILING	MEN'S LOCKER ROOM 128	480	0.25	1142	107	120/60/1	DIRECT	6.5	INTERLOCK WITH LIGHTING CIRCUIT.

AIR HANDLER SCHEDULE

SYMBOL	MANUFACTURER	MODEL	AREA SERVED	COIL TAG	FAN SIZE	FAN TYPE	FAN CFM	TSP / ESP IN. W.C.	FILTERS SQ. FT.	FILTERS MFGR./MODEL	MOTOR DATA HP	MOTOR DATA POWER	REMARKS
AHU-1	DAIKIN	CAH006GHGM	SUPERIOR COURTROOM	HC-1	15.75"	CENTRIFUGAL	2500	2.84/1.5	6.3	DAIKIN	2.0	208/3	R-13 INJECTED FOAM INSULATION, 6" FORMED CHANNEL BASE, MERV 13 FILTER, MIXING BOX, ECM MOTOR WITH ADJUSTABLE SPEED CONTROLS.

SECTION 21 00 00 – FIRE SUPPRESSION

CONTRACTOR IS TO REVISE EXISTING WET AUTOMATIC FIRE SPRINKLER SYSTEM TO PROVIDE COMPLETE COVERAGE OF PROJECT AREA WHERE AFFECTED BY PARTITION CHANGES. FIRE PROTECTION SYSTEM SHALL BE IN COMPLIANCE WITH CONTRACT DOCUMENTS, APPLICABLE CODES AND STANDARDS, AS WELL AS THE AUTHORITY HAVING JURISDICTION ASA DEFINED IN NFPA 13. PROVIDE NEW SPRINKLER HEADS AS REQUIRED, NEW HEADS SHALL MATCH MAKE, MODEL, AND FINISH OF EXISTING SPRINKLERS WHILE COMPLYING WITH NFPA 13 STANDARDS. SUBMIT SHOP DRAWINGS TO ENGINEER, STATE OF ALASKA FIRE MARSHAL, AND OWNER FOR APPROVAL.

A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL, DESIGNERS NICET CERTIFICATION, SHOP DRAWINGS, AND HYDRAULIC CALCULATIONS.
B. MATERIALS:
   1. WET FIRE SPRINKLER PIPING:
      1.1. BLACK STEEL PIPING, ASTM A135 SCHEDULE 10 OR ASTME A795 SCHEDULE 40, UL LISTED OR FM APPROVED FOR FIRE SPRINKLER SERVICE.
      1.2. PIPING MAY BE ROLL-GROOVED, THREADED, FLANGED, OR WELDED FOR CONNECTION. ALL THREADED PIPING SHALL BE SCHEDULE 40. NO PLAIN-END FITTING CONNECTIONS ARE ALLOWED.
   2. FIRE SPRINKLER HEADS:
      2.1. PENDANT IN ALL AREAS WITH RECESSED LIGHTING FLUSH TO THE SUSPENDED CEILING FINISH, PROVIDE RECESSED STANDARD SPRAY PENDANT SPRINKLERS. SPRINKLERS AND ESCUTCHEONS TO BE CHROME FINISH.
B. INSTALLATION:

1. INSTALL PIPING TO CONSERVE BUILDING SPACE AND ROUTE PARALLEL TO BUILDING LINES AND AROUND ACCESS PANELS AND OPENINGS.
2. PROVIDE SEISMIC PROTECTION FOR PIPING IN ACCORDANCE WITH NFPA 13 STANDARDS.
3. HYDROSTATICALLY TEST THE ENTIRE SYSTEM IN ACCORDANCE WITH NFPA 13 STANDARDS.
4. TEST ALL SYSTEM ALARMS.
5. PERFORM MAIN DRAIN TEST.

SECTION 22 05 00; 23 05 00 – COMMON WORK RESULTS FOR MECHANICAL

THE INFORMATION SHOWN ON THESE PLANS FOR EXISTING CONDITIONS IS TAKEN FROM AS-BUILT DRAWINGS AND A NON-DESTRUCTIVE INVESTIGATION OF THE FACILITY. THE INFORMATION SHOWN FOR EXISTING CONDITIONS MAY OR MAY NOT BE ACCURATE OR COMPLETE. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.

PLANS – THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM. THE DRAWINGS ARE PARTLY DIAGRAMMATIC, NOT NECESSARILY SHOWING ALL OFFSETS OR EXACT LOCATIONS OF PIPING AND DUCTS UNLESS SPECIFICALLY DIMENSIONED. CONTRACTOR IS TO COORDINATE PIPING, DUCTWORK, SPRINKLER HEADS, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL PLANS TO AVOID CONFLICTS. REVIEW THE DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT FURNISHED BY OTHER CRAFTS BUT INSTALLED IN ACCORDANCE WITH THIS SECTION. BRING QUESTIONABLE OR OBSCURE ITEMS, APPARENT CONFLICTS BETWEEN PLANS AND SPECIFICATIONS, GOVERNING CODES OR UTILITY REGULATIONS TO THE ATTENTION OF THE OWNER. CODES, ORDINANCES, REGULATIONS, STANDARDS, OR MANUFACTURER'S INSTRUCTIONS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH THE DRAWINGS AND SPECIFICATIONS. MAINTAIN CODE MINIMUM MECHANICAL SERVICE TO ALL AREAS IMPACTED BY WORK WHERE STILL OCCUPIED BY THE OWNER.

STANDARDS, CODES, AND REGULATIONS – ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL MECHANICAL CODE (IMC), INTERNATIONAL FIRE CODE (IFC), UNIFORM PLUMBING CODE (UPC), INTERNATIONAL ENERGY CONSERVATION CODE (IECC), AND NATIONAL ELECTRIC CODE (NEC) AS AMENDED BY THE STATE OF ALASKA. SHEET METAL WORK SHALL BE DONE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS.

ELECTRICAL WORK – ALL ELECTRICAL WORK IS TO BE PERFORMED BY A LICENSED ELECTRICIAN AND IN ACCORDANCE WITH NEC STANDARDS.

PERMITS – THE CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS AND FEES.

SUBMITTALS – SUBMITTALS SHALL BE IN ELECTRONIC FORM. THE DATA SHALL BE ARRANGED AND BOOKMARKED BY SPECIFICATION SECTION. SUBMIT ON ALL SCHEDULED EQUIPMENT AND ALL MATERIALS AND EQUIPMENT AS NOTED IN THE SPECIFICATIONS.

MATERIALS – ALL MATERIALS OTHER THAN OWNER SUPPLIED SHALL BE NEW AND UNUSED, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND IN THE BEST PRACTICE OF THE CRAFT. OBTAIN OWNER APPROVAL OF ALL PRODUCTS PRIOR TO ORDERING OR INSTALLING ANY PART OF ANY SYSTEM.

EQUIPMENT SUBSTITUTIONS – ALL EQUIPMENT LISTED AND SCHEDULED ARE REPRESENTATIVE OF THE STANDARD OF QUALITY AND PERFORMANCE REQUIRED. "OR EQUAL" SUBSTITUTIONS WILL BE CONSIDERED IF SUBSTITUTE DATA SHEETS ARE SUBMITTED AND ARE SHOWN TO BE OF EQUAL OR BETTER QUALITY, INCLUDING EFFICIENCY OF PERFORMANCE, AND SIZE AND WEIGHT. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL SUBSTITUTIONS.

WORKMANSHIP – INSTALLATION OF ALL WORK SHALL BE MADE SO THAT ITS SEVERAL COMPONENT PARTS SHALL FUNCTION AS A WORKABLE SYSTEM COMPLETE WITH ALL ACCESSORIES NECESSARY FOR ITS OPERATION. ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, INSTRUCTIONS AND/OR INSTALLATION DRAWINGS. MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL CONFORM WITH APPLICABLE INDUSTRY STANDARDS, AND THIRD PARTY LISTINGS WHERE APPLICABLE.

WARRANTY – ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM PROJECT COMPLETION AND OWNER ACCEPTANCE. ANY FAULTY MATERIALS OR WORKMANSHIP SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER. DURING THE WARRANTY PERIOD.

EQUIPMENT INSTALLATION AND ACCESS – INSTALL ALL EQUIPMENT WHERE NOTED ON THE DRAWINGS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PROVIDE MISCELLANEOUS APPURTENANCES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS INCLUDING ACCESSORIES, SUPPORTS AND CONTROL CONNECTIONS REQUIRED FOR COMPLETE AND OPERATING SYSTEMS. MAINTAIN MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES AND PROVIDE WORKABLE ACCESS TO ALL SERVICEABLE AND/OR OPERABLE EQUIPMENT.

TEST AND START-UP – TEST ALL PLUMBING AND PIPING SYSTEMS WITH 60 PSIG FOR ONE HOUR BEFORE FILLING AND IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE (UPC). FILL ALL HEATING PIPING WITH TRISODIUM PHOSPHATE SOLUTION AND OPERATE FOR SEVERAL HOURS AT NORMAL OPERATING TEMPERATURE BEFORE FLUSHING AND FILLING WITH HEATING FLUID.

OPERATION AND MAINTENANCE MANUAL – PROVIDE THE OWNER WITH AN OPERATING AND MAINTENANCE MANUAL. TO INCLUDE DATA CUTSHEETS MARKED WITH THE SPECIFIC ITEM USED, MANUFACTURER'S SPECIFICATIONS, OPERATING AND MAINTENANCE INSTRUCTIONS, WARRANTY INFORMATION ON EACH PIECE OF EQUIPMENT, RECORD DRAWINGS WITH INSTALLED LOCATIONS NOTED, SOURCE OF SUPPLY FOR SPARE PARTS AND SERVICE. OPERATION AND MAINTENANCE MANUAL SHALL BE IN ELECTRONIC FORM AND SHALL BE SUBMITTED FOR REVIEW. THE DATA SHALL BE ARRANGED AND BOOKMARKED BY SPECIFICATION SECTION.

RECORD DRAWINGS – PROVIDE ACCURATE PROJECT RECORD DRAWINGS, SHOWN IN RED INK ON A CLEAN SET OF PRINTS. SHOWING ALL CHANGES FROM THE ORIGINAL PLANS MADE DURING INSTALLATION OF THE WORK. SHOW THE DIMENSIONED LOCATION AND ROUTING OF ALL MECHANICAL WORK THAT IS PERMANENTLY CONCEALED. SHOW ROUTING OF WORK IN PERMANENTLY CONCEALED BLIND SPACES WITHIN THE BUILDING. SHOW COMPLETE ROUTING AND SIZING OF ANY SIGNIFICANT REVISIONS TO THE SYSTEMS SHOWN. SUBMIT ORIGINAL COPY TO OWNER. AT THE COMPLETION OF WORK AND PRIOR TO SUBSTANTIAL COMPLETION INSPECTION. PROVIDE ELECTRONIC COPY OF UPDATED CONTROLS SHOP DRAWINGS INCLUDING PLANS, PANEL WIRING DIAGRAMS, AND SEQUENCES OF OPERATIONS TO ACCURATELY REFLECT INSTALLED CONDITIONS.

SEISMIC RESTRAINT – ALL PIPING, DUCTWORK, AND EQUIPMENT INSTALLED UNDER THIS PROJECT SHALL BE SEISMICALLY RATED AND RESTRAINED FOR A SEISMIC EVENT IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE IBC AND ASCE 7 AS AMENDED BY THE STATE OF ALASKA. THE CONTRACTOR SHALL PROVIDE A DEFERRED SUBMITTAL FOR REVIEW TO THE ENGINEER/OWNER. FOR SEISMIC RESTRAINT DESIGN WITH CALCULATIONS AND SHOP DRAWINGS. SEISMIC RESTRAINT CALCULATIONS AND SHOP DRAWINGS SHALL INCLUDE A STRUCTURAL ENGINEERS STAMP AND SIGNATURE PRIOR TO INSTALLATION. SEISMIC CATEGORY D, COMPONENT IMPORTANCE FACTOR IP-1.0.

DEMOLITION DRAWINGS ARE BASED ON AS-BUILT DRAWINGS AND A NON-DESTRUCTIVE WALK-THROUGH OF THE FACILITY. REPORT DISCREPANCIES TO OWNER. BEFORE DISTURBING THE EXISTING INSTALLATION. DISABLE SYSTEMS ONLY TO MAKE SWITCH OVERS AND CONNECTIONS. COORDINATE WITH PHASING PLAN TO PERFORM WORK IN SEQUENCE WITH OTHER TRADES AND MAINTAIN CODE MINIMUM MECHANICAL SERVICE CLEARANCES TO ALL AREAS IMPACTED BY WORK AND STILL OCCUPIED. OBTAIN PERMISSION FROM OWNER. AT LEAST 72 HOURS PRIOR TO PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION AND MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREAS. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS. REMOVE, RELOCATE, AND/OR EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTIONS. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY. REMOVE EXPOSED ABANDONED PIPING, DUCTWORK, INSULATION, HANGERS AND SUPPORTS, CONTROLS AND CONTROL WIRING, AND ANY OTHER ABANDONED MECHANICAL EQUIPMENT. THIS INCLUDES ABANDONED EQUIPMENT ABOVE ACCESSIBLE CEILING FINISHES. WHERE ABANDONED PIPE ENTERS EXISTING SURFACES TO REMAIN, CUT PIPE FLUSH WITH WALLS, AND FLOORS, CAP/PLUG PIPE AND PATCH SURFACES. DEMOLISH ALL DOMESTIC WATER PIPING BACK TO MAINS AND CAP, LEAVE NO DEAD LEGS. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND REMODEL WORK. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS WHICH REMAIN ACTIVE.

SECTION 22 05 29; 23 05 29 – HANGERS & SUPPORTS FOR PIPING & EQUIPMENT

A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.
B. MATERIALS:
   1. PIPE HANGERS AND SUPPORTS
      1.1. HANGERS FOR PIPES 1/2" TO 1-1/2" – MALLEABLE IRON OR CARBON STEEL, ADJUSTABLE SWIVEL, SPLIT RING FOR STEEL PIPE, COPPER SWIVEL FOR COPPER PIPE.
      1.2. HANGERS FOR PIPES 2" TO 4" – CARBON STEEL, ADJUSTABLE CLEVIS.
      1.3. MULTIPLE OR TRAPEZE HANGERS – STEEL CHANNELS WITH WELDED SPACERS AND HANGER RODS.
      1.4. WALL SUPPORTS FOR PIPES 1/2" TO 3" – CAST IRON HOOK.
      1.5. WALL SUPPORTS FOR PIPES 4" AND LARGER – WELDED STEEL BRACKET, WROUGHT STEEL CLAMP W/ ADJUSTABLE STEEL YOKE AND CAST IRON ROLL.
   2. DUCT HANGERS AND SUPPORTS:
      2.1. THREADED ROD: STEEL, THREADED, ASTM A36/A36M.
      2.2. CHANNEL STRUT: 12-GAUGE FORMED STEEL CHANNELS CONFORMING TO ASTM A653 G433. ASTM 675 NUTS, ASTM 307 SCREWS.
      2.3. SHEET METAL STRAPS: ASTM A653/A653M GALVANIZED STEEL WITH ZINC COATING.
   3. INSTALLATION
1. DESIGNED AND INSTALLED IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE (UPC) FOR DOMESTIC WASTE, VENT, AND WATER PIPING. INSTALL HVAC PIPE HANGERS IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE (IMC) AND ANSI/MSS-SP-69 AND 89.
2. INSTALL DUCT HANGERS IN ACCORDANCE WITH SMACNA.
3. INSTALLED AS PER THE MANUFACTURERS INSTRUCTIONS. PROVIDE SEISMIC SUPPORT FOR ALL PIPING AND EQUIPMENT IN ACCORDANCE WITH IBC.

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA – 49TH – R.R. DESTEFANO – ME-8973 – 5/1/23 – REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:
RSA
Mechanical and Electrical Consulting Engineers
670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	CAA
CHECKED BY:	RRD/MRB

REVISION	DESCRIPTION	DATE

MECHANICAL SPECIFICATIONS

M002

1" ACTUAL

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

SECTION 22 05 53; 23 05 53 – IDENTIFICATION FOR PIPING AND EQUIPMENT

A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.

B. MATERIALS:

1. COLORING SCHEME IN ACCORDANCE WITH ANSI A13.1, SETON OPTI–CODE OR EQUAL.

C. INSTALLATION:

1. LABEL ALL EQUIPMENT WITH HEAT RESISTANT LAMINATED PLASTIC LABELS HAVING ENGRAVED LETTERING 1/2" HIGH. LABEL CEILING ADJACENT TO ACCESS LOCATION FOR ALL EQUIPMENT LOCATED ABOVE CEILING.
2. IDENTIFY PIPING AND DUCTWORK TO INDICATE CONTENTS AND FLOW DIRECTION USING PIPE MARKERS OR BY A LABELED SLEEVES IN LETTERS READABLE FROM FLOOR AT LEAST ONCE IN EACH ROOM AND AT INTERVALS OF NOT MORE THAT 20' APART AND ON EACH SIDE OF PARTITION PENETRATIONS.
3. CEILING LABELS: 3/4" X 2" VINYL LABEL, 3.0 MIL SELF–ADHESIVE VINYL SIMILAR TO DURALABEL PRO. LABEL COLOR SHALL BE BLACK TEXT ON A WHITE BACKGROUND.

SECTION 22 07 00; 23 07 00 – INSULATION

A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.

B. MATERIALS

1. PIPING INSULATION – GLASS FIBER, RIGID, MOLDED, NON–COMBUSTIBLE INSULATION; ANSI/ASTM C547; 'K' VALUE OF 0.24 AT 75 DEG F, RATED TO 850 DEG F, VAPOR RETARDER JACKET OF KRAFT PAPER BONDED TO ALUMINUM FOIL; JOHNS MANVILLE "MICRO–LOK" OR EQUAL. COMPLETE WITH VAPOR BARRIER JACKET AND PLASTIC COVERS FOR FITTINGS.
2. ADA PIPING INSULATION – PREFORMED CELLULAR FOAM, PREFORMED FOR P–TRAP AND HOT WATER ANGLE STOP AND SUPPLY TUBE AT HANDICAP SINKS AND LAVATORIES. COMPLIES WITH ADA, ASTM D635. TRUEBRO "LAV GUARD 2" OR APPROVED EQUAL.
3. INTERIOR DUCTWORK INSULATION – FSK DUCT WRAP: FLEXIBLE GLASS FIBER; ANSI/ASTM C553; COMMERCIAL GRADE; 'K' VALUE OF 0.27 AT 75 DEG F. JOHNS MANVILLE "800 SERIES SPIN–GLAS" OR EQUAL.
4. RIGID FIBER BOARD, INSULATION – ANSI/ASTM C612, 'K' VALUE OF 0.24 AT 75 DEG F, 3.0 LB./CU. FT. DENSITY. 0.00035 INCH FOIL SCRIM FACING. CERTAINTEED "CERTAPRO COMMERCIAL BOARD" OR EQUAL.
5. RIGID FIBER BOARD, LINER – ASTM C1071; 'K' VALUE OF 0.23 AT 75'F; COATED AIR SIDE FOR MAXIMUM 6,000 FPM AIR VELOCITY, UL LISTED ADHESIVE GALVANIZED STEEL PINS. JOHNS MANVILLE "LINEACOUSTIC R–300" OR APPROVED EQUAL.
6. PVC JACKETING – ONE PIECE FITTING COVERS AND JACKETING MATERIALS, PRE–MOLDED TYPE. JOHNS MANVILLE "ZESTON 2000" OR APPROVED EQUAL. JOHNS MANVILLE "PERMA–WELD" SOLVENT WELDING ADHESIVE.
7. INSTALLATION

1. PIPING

1.1. INSULATE ALL HEATING AND DOMESTIC WATER PIPING WITH PRE–FORMED FIBERGLASS INSULATION, COMPLETE WITH FACTORY VAPOR BARRIER AND PVC JACKETING FOR FITTINGS. PVC JACKETING TO BE PROVIDED FOR ALL PIPING BELOW 10' AFF IN FINISHED SPACES OR IN MECHANICAL ROOMS.

1.1.1. INSULATE ALL DOMESTIC COLD WATER PIPING SIZE 1–1/4" AND SMALLER WITH 1/2" INSULATION, SIZE 1–1/2" AND LARGER WITH 1" INSULATION.

1.1.2. INSULATE ALL DOMESTIC HOT WATER PIPING SIZE 1–1/4" AND SMALLER WITH 1" INSULATION, SIZE 1–1/2" AND LARGER WITH 1–1/2" INSULATION.

1.1.3. INSULATE ALL HYDRONIC HEATING PIPING SIZE 1–1/4" AND SMALLER WITH 1" INSULATION, SIZE 1–1/2" AND LARGER WITH 1–1/2" INSULATION.

1.2. DUCTWORK

1.1. PROVIDE 1" FIBERGLASS INSULATION ON ALL EXHAUST AND RELIEF DUCTWORK WITHIN 5' OF EXTERIOR OPENINGS.

1.2. PROVIDE 1" DUCT LINER ON ALL TRANSFER AIR DUCTWORK, AND RETURN AND SUPPLY DUCTWORK AS INDICATED ON THE PLANS. DUCTWORK DIMENSIONS INDICATED ARE NET INSIDER DIMENSIONS REQUIRED FOR AIRFLOW. INCREASE DUCTWORK TO ALLOW FOR LINER THICKNESS.

1.3. PROVIDE 2" RIGID EXTERIOR FSK DUCT WRAP AND CANVAS FINISH ON ALL OUTSIDE AIR DUCTWORK.

1.4. INSTALL ALL INSULATION MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND ALL APPLICABLE BUILDING CODES AND INDUSTRY STANDARDS.

SECTION 22 10 00 – PLUMBING PIPING

A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL, PIPING SYSTEM PRESSURE TEST RESULTS.

B. MATERIALS:

1. WASTE PIPING, ABOVE GRADE:

1.1. CAST IRON PIPE – CISPI 301, HUBLESS, SERVICE WEIGHT. FITTINGS: CAST IRON. JOINTS: CISPI 310, NEOPRENE GASKETS AND STAINLESS STEEL CLAMP–AND–SHIELD ASSEMBLIES.

2. DOMESTIC WATER PIPING,

2.1. COPPER TUBING – ASTM B88, TYPE L, HARD DRAWN. FITTINGS: ASME B16.18 CAST BRONZE OR ASME B16.22 WROUGHT COPPER. JOINTS: ASTM B32, LEAD FREE SOLDER, WATER SOLUBLE FLUX OR VIEGA PRO PRESS, OR APPROVED EQUAL.

2.2. PEX TUBING – TUBING SHALL BE CROSS–LINKED HIGH–DENSITY POLYETHYLENE. TUBE SHALL BE PRODUCED USING SILANE METHOD OF CROSS–LINKING AND SHALL MEET THE DIMENSION AND PERFORMANCE SPECIFICATIONS OF ASTM F876/F877 AND CSA B137.5. TUBING SHALL ALSO COMPLY WITH ANSI/NSF 61 AS SUITABLE FOR USE WITH POTABLE WATER. TEMPERATURE AND PRESSURE RATINGS SHALL BE 160 PSI AT 73'F, 100 PSI AT 180'F, AND 80 PSI AT 200'F.

3. STORM WATER PIPING, ABOVE GRADE:

3.1. CAST IRON PIPE: CISPI 301, HUBLESS, SERVICE WEIGHT. FITTINGS: CAST IRON. JOINTS: NEOPRENE GASKETS AND STAINLESS STEEL CLAMP–AND–SHIELD ASSEMBLIES.

4. BALL VALVES:

4.1. SIZES 2" AND SMALLER – LEAD FREE BRONZE TWO–PIECE BODY, FULL PORT, FORGED LEAD FREE BRASS BALL, TEFLON SEATS AND ADJUSTABLE PACKING, LEVER HANDLE. SOLDER, THREADED, OR PRESS–FIT ENDS.

5. DIELECTRIC CONNECTIONS – IAPMO/UPC LISTED, STEEL–TO–PLASTIC DIELECTRIC WATERWAY DESIGN. THERMOPLASTIC–LINED STEEL NIPPLE WITH EXTERNAL ELECTRICAL CONTINUITY. RATED FOR CONTINUOUS USE AT TEMPERATURES UP TO 225'F AND FOR PRESSURES UP TO 300 PSI. DIELECTRIC UNIONS ARE NOT PERMITTED.

6. WATER HAMMER ARRESTORS – BARREL–FABRICATED OF TYPE "L" HARD DRAWN COPPER WITH CAP OF COPPER OR FREE TURNING BRASS. INTERIOR PISTON MACHINED OF LOW LEAD C69300 ECO BRASS OR POLY–CARBONATE DOW CALIBRE 2061–15 MFR. O–RING SEALS OF EPDM WITH DOW–CORNING SILICONE COMPOUND #111 SEAL LUBRICANT FDA LISTED FOR USE IN POTABLE WATER SYSTEMS. TEMPERATURE RANGE: 32'F TO + 212'F. OPERATING PRESSURE: DESIGNED TO OPERATE ON ALL DOMESTIC AND COMMERCIAL SYSTEMS. NORMAL OPERATING PRESSURE 0 TO 200 P.S.I.G., MAX SPIKE PRESSURE 400 P.S.I.G. PRECISION PLUMBING PRODUCTS (PPP) MODELS 'SC–500A THROUGH SC–2000F' OR EQUAL.

7. BALANCE VALVE – STRAIGHT PATTERN, 400 PSIG MAX WORKING PRESSURE, NSF 61 LEAD FREE BRASS BODY, 304 STAINLESS STEEL BALL, GLASS AND CARBON FILLED TFE SEAT RINGS, BRASS AND EPT CHECK VALVES, EPDM STEM O–RING, PLASTIC WHEEL HANDLE FOR SHUT–OFF SERVICE, LOCKSHIELD KEY CAP WITH SET SCREW MEMORY BONNET FOR BALANCING. NPT OR SWEAT ENDS. BELL & GOSSETT "CIRCUIT SETTER PLUS" OR APPROVED EQUAL.

8. CLEANOUTS, INTERIOR FINISHED FLOOR AREAS – CAST IRON, TWO–PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEEP HOLES, REVERSIBLE CLAMPING COLLAR, BRONZE PLUG, ADJUSTABLE ROUND NICKEL BRONZE DEPRESSED COVER. J.R. SMITH "MODEL 4021" OR APPROVED EQUAL.

9. TRAP PRIMERS:

9.1. MANUAL – BRASS VALVE BODY, CONTAINS NO SPRINGS OR DIAPHRAGMS. DISTRIBUTION UNIT SHALL BE BRASS FITTINGS WITH COPPER WATER RESERVOIR, CLEAR PLASTIC COVER, TAPPINGS FOR UP TO FOUR DRAIN TAPS. PRECISION PLUMBING PRODUCTS "PRIME–RITE PR–500" OR APPROVED EQUAL.

C. INSTALLATION

1. ALL NEW PORTIONS OF THE DOMESTIC WATER PIPING SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH SECTION 609 OF THE UPC.
2. TEST ALL NEW PORTIONS OF PIPING IN ACCORDANCE WITH THE UPC.
3. INSTALL ALL PIPING IN CRAFTSMANLIKE MANNER, PLUMB AND PARALLEL TO BUILDING LINES. GROUP PIPING AT COMMON ELEVATIONS WHERE PRACTICAL.
4. PROVIDE CLEARANCE FOR INSTALLATION OF INSULATION AND ACCESS TO VALVES AND FITTINGS.
5. INSTALL VALVES WITH STEMS UPRIGHT OR HORIZONTAL, NOT INVERTED.
6. PROVIDE PROPERLY SIZED HANDLES FOR VALVE OPERATION. HANDLES SHALL NOT BE CUT OR BENT TO MAKE FIT WHERE INSTALLED.
7. INSTALL BALL VALVES FOR SHUT–OFF TO ISOLATE EQUIPMENT.
8. PROVIDE 3/4" DRAIN VALVES AT EQUIPMENT AND PIPING LOW POINTS FOR DRAINING OF SYSTEM.
9. NO ABS PIPING SHALL BE INSTALLED OR ROUTED THROUGH PLENUMS.

SECTION 23 05 93 – TESTING, ADJUSTING, AND BALANCING FOR HVAC

A. SUBMITTALS: SUBMIT QUALIFICATIONS, NEBB CERTIFICATIONS OR 5 YEARS DOCUMENTED PROJECT EXPERIENCE OF SIMILAR OR GREATER MAGNITUDE, EQUIPMENT CALIBRATIONS, PRELIMINARY AND FINAL BALANCING REPORTS.

B. MATERIALS:

1. BALANCING INSTRUMENTS AS NECESSARY TO COMPLETE WORK TO MEASURE AT LEAST THE FOLLOWING: AIR VELOCITY, STATIC PRESSURE, RPM, TEMPERATURE, AND FLOW.

C. EXECUTION:

1. THE CONTRACTOR SHALL BALANCE AIR AND HYDRONIC SYSTEMS ACCORDING TO NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) RECOMMENDED PROCEDURES AND CONTRACT DOCUMENTS, AND TO THE SATISFACTION OF THE OWNER.
2. FLOWS ARE TO BE BALANCED TO WITHIN 10% OF INDICATED FLOWS, PER AMERICAN AIR BALANCING COUNCIL (AABC) RECOMMENDED METHODS.

SECTION 23 09 00 – INSTRUMENTATION FOR HVAC

A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.

B. MATERIALS:

1. THERMOMETERS:

1.1. STEM TYPE – 9 INCH SCALE, UNIVERSAL ADJUSTABLE ANGLE, RED APPEARING MERCURY, LENS FRONT TUBE, CAST ALUMINUM CASE WITH METALLIC FINISH AND CLEAR LEXAN WINDOW, EXTENDED BRASS STEM, CAST ALUMINUM ADJUSTABLE JOINT WITH POSITIVE LOCKING DEVICE, 2 PERCENT OF SCALE ACCURACY TO ASTM E77, SCALE CALIBRATED IN BOTH DEGREES F AND DEGREES C. TRERICE "BX9" OR APPROVED EQUAL.

1.2. SOLAR POWERED, DIGITAL – CAST ALUMINUM CASE; –50/300'F (–45/150'C) SWITCHABLE RANGE; 9/16" LCD DIGITS, WIDE AMBIENT FORMULA DISPLAY; 1% ACCURACY; 10 LUX RATING, 10 SECOND UPDATE, GLASS PASSIVATED THERMISTOR. TRERICE "SX9" OR APPROVED EQUAL.

2. PRESSURE GAUGES – 4–1/2" DIAMETER CAST ALUMINUM CASE, PHOSPHOR BRONZE BOURBON TUBE, ROTARY BRONZE MOVEMENT, BRASS SOCKET, SILICONE FLUID DAMPENING BLACK FIGURES ON WHITE BACKGROUND, 1% MID–SCALE ACCURACY, CALIBRATED IN PSI. TRERICE "600CB" OR APPROVED EQUAL.

C. INSTALLATION:

1. ALL DEVICES SHALL BE INSTALLED IN ACCORDANCE W/ MANUFACTURERS INSTRUCTIONS.
2. INSTALL THERMOMETERS IN PIPING SYSTEMS IN SOCKETS WITH SHORT COUPLING. SELECT BULB LENGTH TO REACH CENTERLINE OF PIPE.
3. ALL INSTRUMENTS SHALL BE PROVIDED WITH SCALE RANGES ACCORDING TO LARGEST PRESSURE IN SYSTEM SERVED.
4. INSTALL ALL GAUGES AND THERMOMETERS IN LOCATIONS WHERE THEY ARE EASILY READ.

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA – 9TH – R.R. DIESTEFANO – ME-8973 – 5/1/23 – REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

RSA

Mechanical and Electrical Consulting Engineers

670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	CAA
CHECKED BY:	RRD/MRB

REVISION	DESCRIPTION	DATE

MECHANICAL SPECIFICATIONS

M003

SECTION 23 09 23 – DIRECT DIGITAL CONTROL SYSTEM FOR HVAC

A. SUBMITTALS: SUBMIT ON PRODUCT DATA AND CONTROLS SHOP DRAWINGS FOR APPROVAL.

B. DDC GENERAL REQUIREMENTS:

1. PROVIDE A COMPLETE DIRECT DIGITAL CONTROL SYSTEM TO ACCOMPLISH THE SEQUENCE OF OPERATIONS. PROVIDE ALL CONTROLLERS, TEMPERATURE SENSORS, THERMOSTATS, CONTROL VALVES, CONTROL DAMPERS, ELECTRIC ACTUATORS, TRANSFORMERS, AIR FLOW MEASURING STATIONS, WIRING AND ALL OTHER ASSOCIATED COMPONENTS. THE DDC SYSTEM SHALL BE COMPLETE WITH GRAPHICS DISPLAYING EQUIPMENT, INDICATIONS, AND ALARMS AS NOTED IN THE SEQUENCE OF OPERATIONS.
2. THE SYSTEM SHALL BE WEB ENABLED AND SHALL BE ACCESSIBLE THROUGH ANY COMPUTER CONNECTED TO THE INTERNET USING A STANDARD WEB BROWSER AND APPROPRIATE PASSWORD PROTECTION. CONTRACTOR SHALL INCLUDE COSTS FOR ALL NETWORK WIRING AND COORDINATION WITH THE OWNER FOR IP ADDRESS CONNECTION.
3. APPROVED DDC SYSTEMS:
   - 3.1. ALERTON.
   - 3.2. AUTOMATED LOGIC.
   - 3.3. DISTECH CONTROLS.
   - 3.4. SIEMENS.
   - 3.5. JOHNSON CONTROLS.

C. MATERIALS:

1. CONTROL VALVES – SELECT VALVES TO FAIL SAFE IN THE HEATING POSITION UNLESS NOTED OTHERWISE. SELECT VALVES TO HAVE EQUAL PERCENTAGE PORTS FOR MODULATING SERVICE. SIZE VALVE OPERATORS TO CLOSE VALVES AGAINST PUMP SHUT OFF HEAD. SIZE MODULATING VALVES FOR 3 TO 5 PSI DROP. FOR 2–POSITION OPEN/CLOSE SERVICE, VALVE SHALL BE LINE–SIZED.
2. MODULATING ACTUATORS – ACTUATOR TO CONVERT ELECTRONIC 1–10VDC OR 3–20MA ANALOG SIGNAL TO A LINEAR, POSITIVE PROCESSING STROKE. PROVIDE MODULATING ELECTRONIC ACTUATORS FOR MODULATING CONTROL EXCEPT AS INDICATED. BELIMO OR EQUAL.
3. PROGRAMMABLE, DIGITAL – DIGITAL 24VAC, 7–DAY PROGRAMMING, DIGITAL DISPLAY, MENU–DRIVEN, PRECISE TEMPERATURE CONTROL (+/– 1°F), BATTERY BACK–UP, 40°F TO 85°F SET POINT ADJUSTMENT RANGE, HARDWIRED POWER.
4. NON–PROGRAMMABLE THERMOSTATS – FAHRENHEIT SCALE, SINGLE TEMPERATURE, GRADUAL–ACTING, ADJUSTABLE SENSITIVITY, EXPOSED SET POINT ADJUSTMENT, SET POINT INDICATION, WITH THERMOMETER. DIFFERENTIAL NOT TO EXCEED 2.7 DEGREES F WITH MINIMUM 11.7 DEGREES F SET POINT ADJUSTMENT.
5. GUARDS – LOCKING, CLEAR ACRYLIC, COMPLETE WITH BASE PLATE, ALL GUARDS SHALL BE KEYED ALIKE.
6. AIRFLOW SENSOR MEASUREMENT DEVICES – MEASUREMENT DEVICE SHALL CONSIST OF ONE OR MORE SENSOR PROBE ASSEMBLIES AND A SINGLE MICROPROCESSOR–BASED TRANSMITTER. EACH SENSOR PROBE ASSEMBLY SHALL CONTAIN ONE OR MORE INDEPENDENT SENSOR HOUSINGS. MULTIPLE SENSOR HOUSINGS SHALL BE EQUALLY WEIGHTED AND AVERAGED BY THE TRANSMITTER PRIOR TO OUTPUT. PROVIDE AIRFLOW SENSOR MEASUREMENT DEVICES AS INDICATED ON THE PLANS OR IN THE SEQUENCE OF OPERATIONS. EBTRON "GTx116–P+" OR APPROVED EQUAL.

C. INSTALLATION:

1. CONTRACTOR SHALL COORDINATE WITH OWNER TO DETERMINE EXTENT OF EQUIPMENT TO BE PROVIDED BY OWNER AND EXTENT OF EQUIPMENT TO BE PROVIDED BY CONTRACTOR. ANY EQUIPMENT NOT PROVIDED BY OWNER SHALL BE PROVIDED BY CONTRACTOR AS NECESSARY TO ACCOMPLISH THE SEQUENCE OF OPERATIONS.
2. THE CONTROL SYSTEM SHALL BE DESIGNED, FURNISHED, INSTALLED, TESTED, AND PLACED INTO SERVICE BY A CONTROL CONTRACTOR WHO IS REGULARLY ENGAGED IN THE INSTALLATION OF CONTROL SYSTEMS IN ALASKA. THE CONTROL CONTRACTOR SHALL MAINTAIN AN OFFICE IN ALASKA WITH PARTS AND MAINTENANCE PERSONNEL TO ENSURE PROMPT RESPONSE (24 HOUR MAXIMUM) TO AN EMERGENCY CALL DURING THE ONE YEAR CORRECTION PERIOD.
3. CONTROL CONTRACTOR SHALL PROVIDE (11X17) SCHEMATIC CONTROL DIAGRAMS IN AUTOCAD FORMAT. CLEARLY INDICATE WIRE AND TERMINAL LABELS, SET POINTS, RESET SCHEDULES, SWITCH OVER POINTS, SIGNAL RANGES, AND OTHER POINTS REQUIRED TO COMPLETELY DESCRIBE THE SYSTEM. DEPICT CIRCUITRY ON SCHEMATIC CONTROL DIAGRAMS TO ALLOW CIRCUITS TO BE TRACED FROM CONNECTION TO CONNECTION. CONTROL SYSTEM.
4. INSTALL ALL WIRING IN ACCORDANCE WITH THE NEC.
5. TEST ALL SYSTEMS; VERIFY ALL SYSTEMS OPERATE AS SPECIFIED IN THE SEQUENCE OF OPERATIONS AND RECORD INITIAL SETTINGS AND OPERATING POINTS IN O&M MANUALS. PROVIDE OPERATOR INTERFACE TO ALLOW FOR LOCAL SCHEDULE ADJUSTMENT, SETPOINT ADJUSTMENT, AND SYSTEM MONITORING.
6. PROVIDE FLUSH–MOUNT OR TAMPER PROOF THERMOSTATS/TEMPERATURE SENSORS IN ALL PUBLIC AREAS, AND LOCALLY ADJUSTABLE THERMOSTATS/TEMPERATURE SENSORS IN ALL OTHER AREAS.
7. INSTALL THERMOMETERS AND PRESSURE GAUGES WHERE INDICATED ON SCHEMATICS AND PLANS. INSTALL IN LOCATIONS WHERE THEY CAN BE EASILY READ BY MAINTENANCE PERSONNEL.
8. MOUNT DAMPER OPERATORS AND OTHER CONTROL DEVICES SECURED TO INSULATED PIPING OR DUCTWORK ON BRACKETS SUCH THAT THE DEVICE IS EXTERNAL OF THE INSULATION.
9. THE CONTRACTOR WILL COMPLETELY CHECK–OUT, CALIBRATE, AND TEST ALL CONNECTED HARDWARE AND SOFTWARE TO ENSURE THAT THE SYSTEM PERFORMS IN ACCORDANCE WITH THE APPROVED SPECIFICATIONS AND SEQUENCE OF OPERATIONS.
10. TRAINING – INSTRUCT OWNERS REPRESENTATIVE(S) IN THE OPERATION, CARE, AND MAINTENANCE OF ALL SYSTEMS AND EQUIPMENT PROVIDED. PROVIDE CONTROL SYSTEMS DEMONSTRATIONS AND MINIMUM 4 HOURS OF HANDS ON TRAINING TO OWNERS REPRESENTATIVE(S) PRIOR TO SUBSTANTIAL COMPLETION.

SECTION 23 21 13 – HYDRONIC PIPING

A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL, PIPING SYSTEM PRESSURE TEST RESULTS.

B. MATERIALS:

1. COPPER TUBING – ASTM B88, TYPE L, HARD DRAWN. FITTINGS: ANSI/ASME B16.18 CAST BRONZE OF ASME B16.22 WROUGHT COPPER. JOINTS: ASTM B32, SOLDER, GRADE 95TA OR ANSI/AWS A5.8, BCUP SILVER BRAZE; FLUX: ASTM B813 OR VIEGA PRO PRESS SYSTEM.
2. BALL VALVES:
   - 2.1. SIZES 2" AND SMALLER – BRONZE TWO–PIECE BODY, FULL PORT, FORGED BRASS, CHROME PLATED BALL, TEFLON SEATS AND STUFFING BOX RING, LEVER HANDLE. SOLDER, THREADED, OR PRESS–FIT ENDS.
   - 2.2. SIZES 2–1/2" AND LARGER – CAST STEEL TWO–PIECE BODY, FULL PORT CHROME PLATED STEEL BALL, TEFLON SEAT AND STUFFING BOX SEALS, LEVER HANDLE. FLANGED, SOLDER, THREADED, OR PRESS–FIT ENDS.
3. FLANGES, UNIONS, AND COUPLINGS – BRONZE UNIONS FOR COPPER PIPE, SOLDERED JOINTS.

C. INSTALLATION:

1. INSTALL ALL PIPING IN CRAFTSMANLIKE MANNER, PLUMB AND PARALLEL TO BUILDING LINES. GROUP PIPING AT COMMON ELEVATIONS WHERE PRACTICAL.
2. PROVIDE CLEARANCE FOR INSTALLATION OF INSULATION AND ACCESS TO VALVES AND FITTINGS.
3. INSTALL VALVES WITH STEMS UPRIGHT OR HORIZONTAL, NOT INVERTED.
4. PROVIDE PROPERLY SIZED HANDLES FOR VALVE OPERATION. HANDLES SHALL NOT BE CUT OR BENT TO MAKE FIT WHERE INSTALLED.
5. INSTALL BALL VALVES FOR SHUT–OFF TO ISOLATE EQUIPMENT.
6. PROVIDE 3/4" DRAIN VALVES AT EQUIPMENT AND PIPING LOW POINTS FOR DRAINING OF SYSTEM.
7. PRIOR TO FLUSHING SYSTEM, VERIFY SYSTEM IS COMPLETE. THOROUGHLY FLUSH AND CLEAN THE SYSTEM. DRAIN ALL LOW POINTS AND REMOVE AND CLEAN ANY STRAINER BASKETS. UPON COMPLETION OF FLUSHING, FEED HEATING MEDIUM INTO SYSTEM THROUGH MAKE–UP LINE WITH PRESSURE REGULATOR WHILE VENTING HIGH POINTS. SET INITIAL FILL PRESSURE TO 5 PSIG. ADJUST PRESSURE AS NECESSARY TO ACHIEVE 12 PSIG DURING SYSTEM OPERATION.

SECTION 23 31 00 – HVAC DUCTS AND CASINGS

A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL

B. MATERIALS:

1. DUCTWORK:
   - 1.1. GALVANIZED STEEL – ASTM A653/A653M GALVANIZED SHEET, LOCK–FORMING QUALITY, ASTM A90/90M G90 ZINC COATING.
   - 1.2. FASTENERS – RIVETS, BOLTS, OR SHEET METAL SCREWS.
2. FLEXIBLE DUCTS:
   - 2.1. INSULATED – UL 181, CLASS 1, COATED FIBERGLASS WOVEN FABRIC SUPPORTED BY COATED HELICAL WOUND SPRING STEEL WIRE, FIBERGLASS INSULATED, ALUMINIZED POLYESTER VAPOR BARRIER FILM, THERMAL RESISTANCE OF R–4.2. 10" W.G. POSITIVE AND 2.0" W.G. NEGATIVE. THERMFLEX "M–KC" OR APPROVED EQUAL.
3. SINGLE WALL, ROUND SPIRAL DUCT – UL 181, CLASS 1, ROUND SPIRAL LOCKSEAM, GALVANIZED STEEL. DUCT SIZE GAUGES PER SMACNA STANDARDS.

C. INSTALLATION:

1. LOW AND MEDIUM PRESSURE DUCTWORK – FABRICATE, INSTALL, AND SUPPORT IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS AND ASHRAE HANDBOOKS, EXCEPT AS INDICATED. SEAL ALL DUCT SEAMS AND JOINTS AIRTIGHT. USE TURNING VANES IN ALL SQUARE ELBOWS AND FLAT OVAL ELBOWS. INSTALL VOLUME DAMPERS AND EXTRACTORS WHERE SHOWN ON THE DRAWINGS. ALL SHEET METAL WORK TO BE CONSTRUCTED, INSTALLED, TESTED AND BALANCED IN ACCORDANCE WITH SMACNA STANDARDS. SUPPORT LOW AND MEDIUM PRESSURE DUCTWORK PER SMACNA GUIDELINES.
2. CONNECT FLEXIBLE DUCTS TO METAL DUCTS WITH DRAW BANDS.
3. PROVIDE SEISMIC SUPPORT AND RESTRAINT FOR ALL DUCTWORK AND EQUIPMENT IN ACCORDANCE WITH THE IBC.

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA 10TH R.R. BESTEFAND ME-8973 5/1/23 REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:
RSA
Mechanical and Electrical Consulting Engineers
670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	CAA
CHECKED BY:	RRD/MRB

REVISION	DESCRIPTION	DATE

MECHANICAL SPECIFICATIONS

M004

1" ACTUAL

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

SECTION 23 33 00 – AIR DUCT ACCESSORIES

A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL

B. MATERIALS:

1. DAMPERS:

1.1. BACKDRAFT – MULTI–BLADE, PARALLEL ACTION, GRAVITY BALANCED, 16–GAUGE GALVANIZED STEEL OR EXTRUDED ALUMINUM, CENTER PIVOTED BLADES OF 6" WIDTH MAX, VINYL BLADE SEALS, EXTERNAL LINKAGE AND TIE BAR, STEEL BALL BEARINGS. GREENHECK "EM" SERIES OR APPROVED EQUAL.

1.2. MANUAL BALANCING – DIFFERENTIAL PRESSURE RATING OF 1" W.G., VELOCITY RATING OF 2,000 FPM. DAMPER FRAME AND SLEEVE SHALL BE OF ONE–PIECE DESIGN, 20 GAUGE GALVANIZED STEEL, SINGLE BLADE. GREENHECK "MBDR–50" OR APPROVED EQUAL.

1.3. VOLUME CONTROL – DIFFERENTIAL PRESSURE RATING OF 4" W.G., VELOCITY RATING OF 2,000 FPM. DAMPER FRAME AND SLEEVE SHALL BE OF ONE–PIECE DESIGN, 16 GAUGE GALVANIZED STEEL, MULTI–BLADE, TRIPLE–V TYPE, PLATED STEEL AXLES, EXTERNAL BLADE–TO–BLADE LINKAGE. GREENHECK "MBD–15" OR APPROVED EQUAL.

1.4. INSULATED CONTROL – DIFFERENTIAL PRESSURE RATING OF 8" W.G., VELOCITY RATING OF 3,000 FPM, LEAKAGE OF 3 CFM/FT2 AT 1" W.G. DIFFERENTIAL STATIC PRESSURE. DAMPER FRAME AND SLEEVE SHALL BE OF ONE–PIECE DESIGN, DAMPER FRAME SHALL BE INSULATED WITH POLYSTYROFOAM, 16 GAUGE GALVANIZED STEEL, MULTI–BLADES, INSULATED THERMALLY BROKEN AIRFOIL, EXTERNAL BLADE–TO–BLADE LINKAGE, SILICONE OR EPDM BLADE AND JAMB SEALS. GREENHECK "ICD–45" OR APPROVED EQUAL.

2. FLEXIBLE DUCT CONNECTIONS – UL AND NFPA 701 LISTED FIRE RETARDANT NEOPRENE COATED WOVEN GLASS FIBER FABRIC, MINIMUM DENSITY 30 OZ. PER SQ. YD, 3" WIDTH, CRIMPED INTO METAL EDGING STRIP. DURO–DYNE "NEOPRENE FLEXIBLE DUCT CONNECTOR" OR APPROVED EQUAL.

3. TURNING VANES – AIR FOIL, DOUBLE WIDTH, GALVANIZED, 2" INSIDE RADIUS.

C. INSTALLATION:

1. INSTALL COMPONENTS IN ACCORDANCE WITH NFPA 90A AND SMACNA DUCT CONSTRUCTION STANDARDS.

2. INSTALL 12"X12" ACCESS DOORS DOWNSTREAM OF AUTOMATIC CONTROL DAMPERS, ADJACENT TO FIRE, SMOKE, COMBINATION FIRE–SMOKE DAMPERS FOR RESET OF FUSIBLE LINKS, AND DOWNSTREAM OF EACH VAV BOX. ACCESS DOORS SHALL BE INSTALLED UPSTREAM OF EACH HEATING COIL.

3. INSTALL TEMPORARY DUCT TEST HOLES AS REQUIRED FOR TESTING AND BALANCING. CAP ALL HOLES WITH NEOPRENE OR THREADED PLUGS.

SEQUENCE OF OPERATIONS:

AIR HANDLER SYSTEM VIA DDC (AHU–1):

A. ALARMS:

1. LOW SUPPLY AIR TEMPERATURE
2. HIGH FILTER DIFFERENTIAL PRESSURE
3. FREEZE ALARM
4. SUPPLY FAN FAILURE

B. THE DDC SHALL MONITOR THE FOLLOWING POINTS:

1. H–O–A CONTROL
2. ON/OFF STATUS
3. OUTSIDE AIR TEMPERATURE RESET ADJUSTMENT
4. SUPPLY AIR TEMPERATURE SETPOINT
5. SUPPLY AIR TEMPERATURE INDICATION
6. MIXED AIR TEMPERATURE INDICATION
7. OUTSIDE AIR TEMPERATURE INDICATION
8. OUTSIDE AIR MINIMUM POSITION ADJUSTMENT
9. OUTSIDE AIR DAMPER POSITION INDICATION.
10. RETURN AIR DAMPER POSITION INDICATION.
11. FILTER DIFFERENTIAL PRESSURE

C. AUTOMATED CONTROL:

1. AIR HANDLER SHALL OPERATE WHEN FACILITY IS OCCUPIED. COORDINATE BUILDING OCCUPANCY SCHEDULE WITH OWNER.
2. NIGHT MODE (UNOCCUPIED): FAN SHALL BE OFF, O/A DAMPER CLOSE, R/A DAMPER FULLY OPEN. HEATING COIL SHALL MODULATE TO MAINTAIN S/A SENSOR SET POINT EXCEPT UNDER FREEZE ALARM AS DEFINED BELOW.
3. MORNING WARMUP: AT BEGINNING OF DAY MODE, FAN STARTS ON 100% R/A. HEATING COIL MODULATES TO MAINTAIN 80°F(ADJUSTABLE) S/A SETPOINT. WHEN R/A TEMPERATURE RISES TO 70°F (ADJUSTABLE) THE SYSTEM SHALL SWITCH TO DAY TIME OPERATION MODE.
4. OCCUPIED MODE:

4.1. DURING OPERATION AN AIR FLOW MEASURING STATION SHALL BE UTILIZED TO DETERMINE OUTSIDE AIR. THE MINIMUM OUTSIDE AIR SETTING PRIOR TO IMPLEMENTING DEMAND CONTROL SHALL BE 350 CFM.

4.2. THE OUTSIDE AIR SHALL BE FURTHER OFFSET BASED ON CO2 CONCENTRATION IN THE RETURN AIR DUCTWORK. THE DDC SYSTEM SHALL ADJUST OUTSIDE AIR TO MAINTAIN RETURN AIR CO2 CONCENTRATIONS BELOW 1100 PPM.

4.3. THE SUPPLY AIR TEMPERATURE SENSOR SHALL MODULATE THE O/A AND R/A DAMPERS, AND HEATING COIL CONTROL VALVE TO MAINTAIN THE ROOM TEMPERATURE SET POINT, INITIALLY SET AT 70 F (ADJUSTABLE).

4.4. ON FREEZE ALARM (38°F, ADJUSTABLE) THE FAN SHALL STOP, O/A DAMPERS SHALL FULLY CLOSE, R/A DAMPERS SHALL FULLY OPEN, HEATING CONTROL VALVE SHALL MODULATE TO FULL OPEN. PROVIDE AUTOMATIC RESET. IF THE FREEZE STAT IS TRIPPED 5 OR MORE TIMES IN A 24 HR PERIOD A MANUAL RESET SHALL BE REQUIRED.

4.5. FIRE ALARM: IF THE FIRE ALARM SYSTEM IS ACTIVATED, THE FAN SHALL BE STOP, O/A DAMPERS SHALL FULLY CLOSE, R/A DAMPERS SHALL FULLY OPEN, HEATING VALVE SHALL MODULATE FULL OPEN.

4.6. SMOKE DETECTOR: AIR HANDLING UNIT SHALL BE EQUIPPED WITH A SMOKE DETECTOR TO STOP THE AHU IN THE EVENT OF ACTIVATION. COORDINATE WITH DIV 28 AND INTERLOCK WITH FIRE ALARM SYSTEM.

RADIANT PANEL VIA DDC (COURTROOM – AHU–1):

A. ALARMS:

1. LOW SPACE TEMPERATURE
2. HIGH SPACE TEMPERATURE

B. THE DDC SHALL MONITOR THE FOLLOWING POINTS:

1. SPACE TEMPERATURE SET POINT
2. SPACE TEMPERATURE INDICATION
3. CONTROL VALVE POSITION

C. AUTOMATED CONTROL:

1. WHENEVER AHU–1 IS OPERATING THE SPACE SENSOR SHALL CYCLE THE CONTROL VALVE TO MAINTAIN THE OCCUPIED SET POINT.
2. WHENEVER AHU–1 IS OFF THE SPACE SENSOR SHALL CYCLE THE CONTROL VALVE TO MAINTAIN THE UNOCCUPIED SET POINT, INITIALLY SET TO 60 F.

RADIANT PANEL – STANDALONE T–STAT (LOCKER ROOMS):

A. ALARMS:

1. NONE

B. THE DDC SHALL MONITOR THE FOLLOWING POINTS:

1. NONE

C. AUTOMATED CONTROL:

STANDALONE 7–DAY PROGRAMMABLE T'STAT SHALL THE SPACE SENSOR SHALL CYCLE THE CONTROL VALVE TO MAINTAIN THE OCCUPIED AND UNOCCUPIED SET POINTS. COORDINATE BUILDING OCCUPANCY SCHEDULE WITH OWNER.

FINTUBE – STANDALONE T–STAT (IN WALL CAVITY):

A. ALARMS:

1. NONE

B. THE DDC SHALL MONITOR THE FOLLOWING POINTS:

1. NONE

C. AUTOMATED CONTROL:

1. STANDALONE CONTROLLER WITH THROUGH THE WALL SPACE SENSOR SHALL MONITOR CAVITY TEMPERATURE AND CYCLE CONTROL VALVE TO MAINTAIN SET POINT, INITIALLY SET TO 60 F (ADJUSTABLE).

EXHAUST FANS (EF–1 AND EF–2):

A. ALARMS:

1. NONE

B. THE DDC SHALL MONITOR THE FOLLOWING POINTS:

1. NONE

C. AUTOMATED CONTROL:

1. EXHAUST FAN SHALL BE STARTED AND STOPPED WITH RESTROOM LIGHTS.

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
RICHARD R. DESTEFANO
ME-8973
5/1/23
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:
RSA
Mechanical and Electrical Consulting Engineers
670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	CAA
CHECKED BY:	RRD/MRB

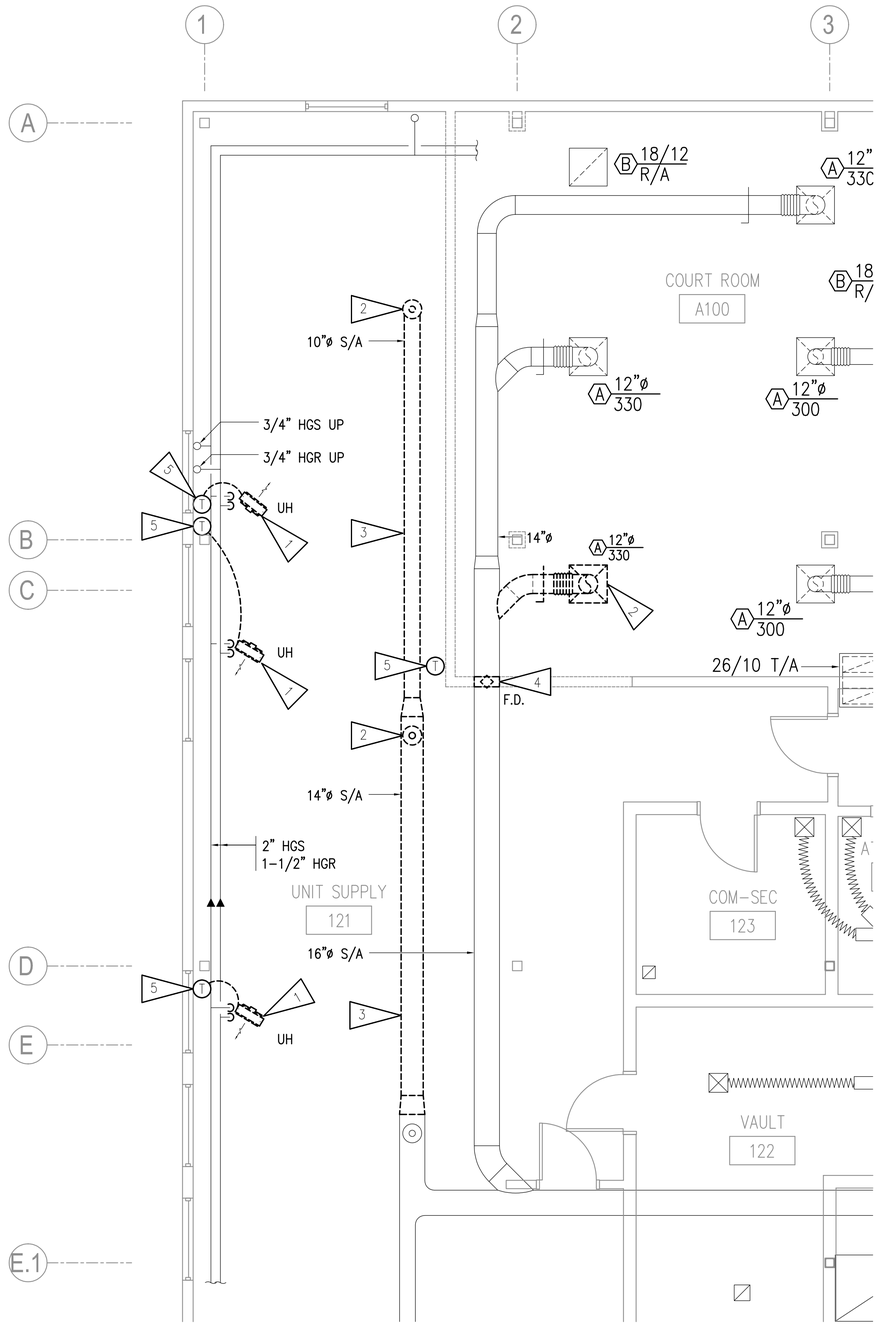
REVISION	DESCRIPTION	DATE

MECHANICAL SPECIFICATIONS

M005

1" ACTUAL

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES



1 MECHANICAL DEMOLITION PLAN - FIRST FLOOR

1/4" = 1'-0"

TRUE NORTH

GENERAL NOTES

A. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM AS-BUILT DRAWINGS AND A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.

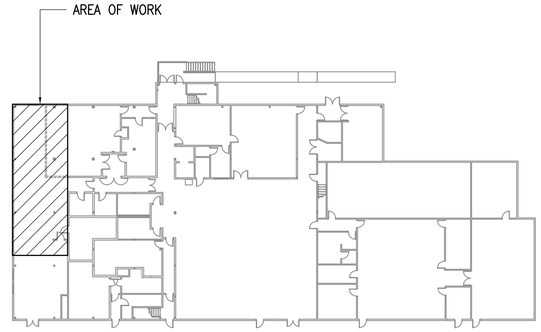
B. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A LOCATION AS DIRECTED BY THE OWNER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

C. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.

D. RELOCATE ALL SPRINKLER HEADS AS NOTED IN SPECIFICATIONS. LOCATE ALL HEADS TO PROVIDE COVERAGE AND CLEARANCE IN ACCORDANCE WITH NFPA 13. ALL SPRINKLER HEADS SHALL BE CENTERED IN CEILING TILES.

SHEET NOTES

1. DEMOLISH UNIT HEATER, THERMOSTAT, AND ASSOCIATED APPURTENANCES. CAP HEATING PIPES AT MAIN.
2. DEMOLISH SUPPLY AIR DIFFUSER.
3. DEMOLISH SUPPLY DUCTWORK TO EXTENT SHOWN AND CAP.
4. DEMOLISH FIRE DAMPER.
5. DEMOLISH THERMOSTAT.



KEYPLAN - FIRST FLOOR

1/32" = 1'-0"

TRUE NORTH

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
RR DESTEFANO
ME-8973
5/1/23
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM

KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES

KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

RSA

Mechanical and Electrical Consulting Engineers

670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	CAA
CHECKED BY:	RRD/MRB

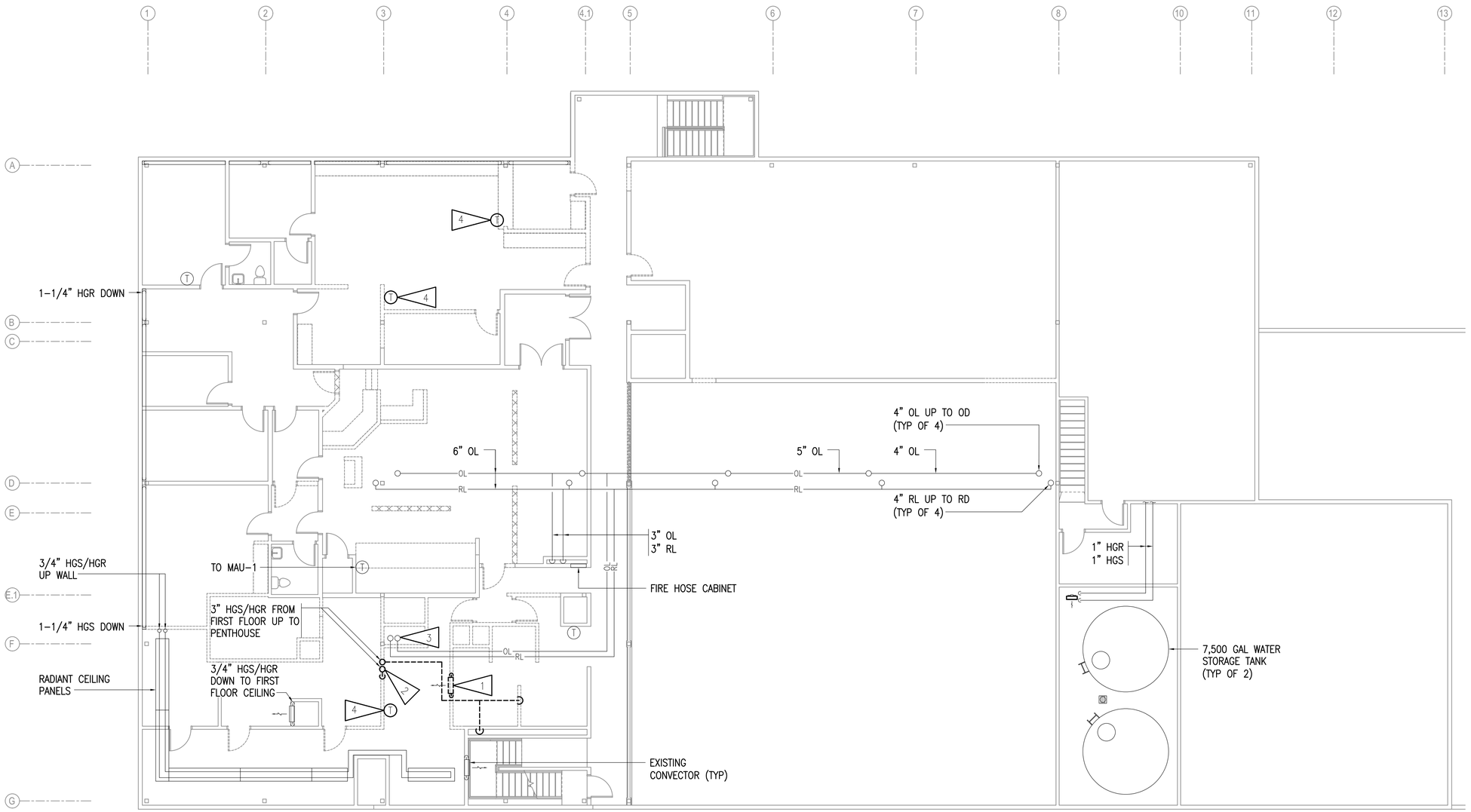
REVISION	DESCRIPTION	DATE

MECHANICAL DEMOLITION PLAN - FIRST FLOOR

M101

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL



1 HEATING AND PLUMBING PIPING DEMOLITION PLAN - SECOND FLOOR

1/8" = 1'-0"

GENERAL NOTES:

A. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM AS–BUILT DRAWINGS AND A NON–DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE–IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.

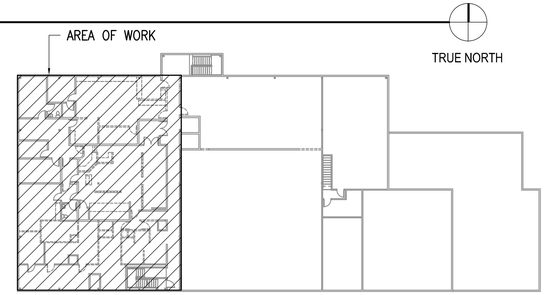
B. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A LOCATION AS DIRECTED BY THE OWNER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

C. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.

D. RELOCATE ALL SPRINKLER HEADS AS NOTED IN SPECIFICATIONS. LOCATE ALL HEADS TO PROVIDE COVERAGE AND CLEARANCE IN ACCORDANCE WITH NFPA 13. ALL SPRINKLER HEADS SHALL BE CENTERED IN CEILING TILES.

SHEET NOTES:

1. DEMOLISH CONVECTOR AND ASSOCIATED APPURTENANCES. DEMOLISH PIPING TO EXTENT NECESSARY TO ACCOMMODATE NEW WORK. CAP PIPING AT MAIN.
2. DEMOLISH 3" HGS AND 3" HGR RISER PIPES DOWN TO FIRST FLOOR CEILING.
3. 3" OL AND 3" RL TO REMAIN.
4. REMOVE THERMOSTAT AND SALVAGE FOR REINSTALLATION.



KEYPLAN - SECOND FLOOR

1/32" = 1'-0"

TRUE NORTH

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA — 10TH — R.R. DESTEFANO — ME-8973 — 5/1/23 — REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM

KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES

KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

RSA

Mechanical and Electrical Consulting Engineers

670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	ARN
CHECKED BY:	RRD/MRB

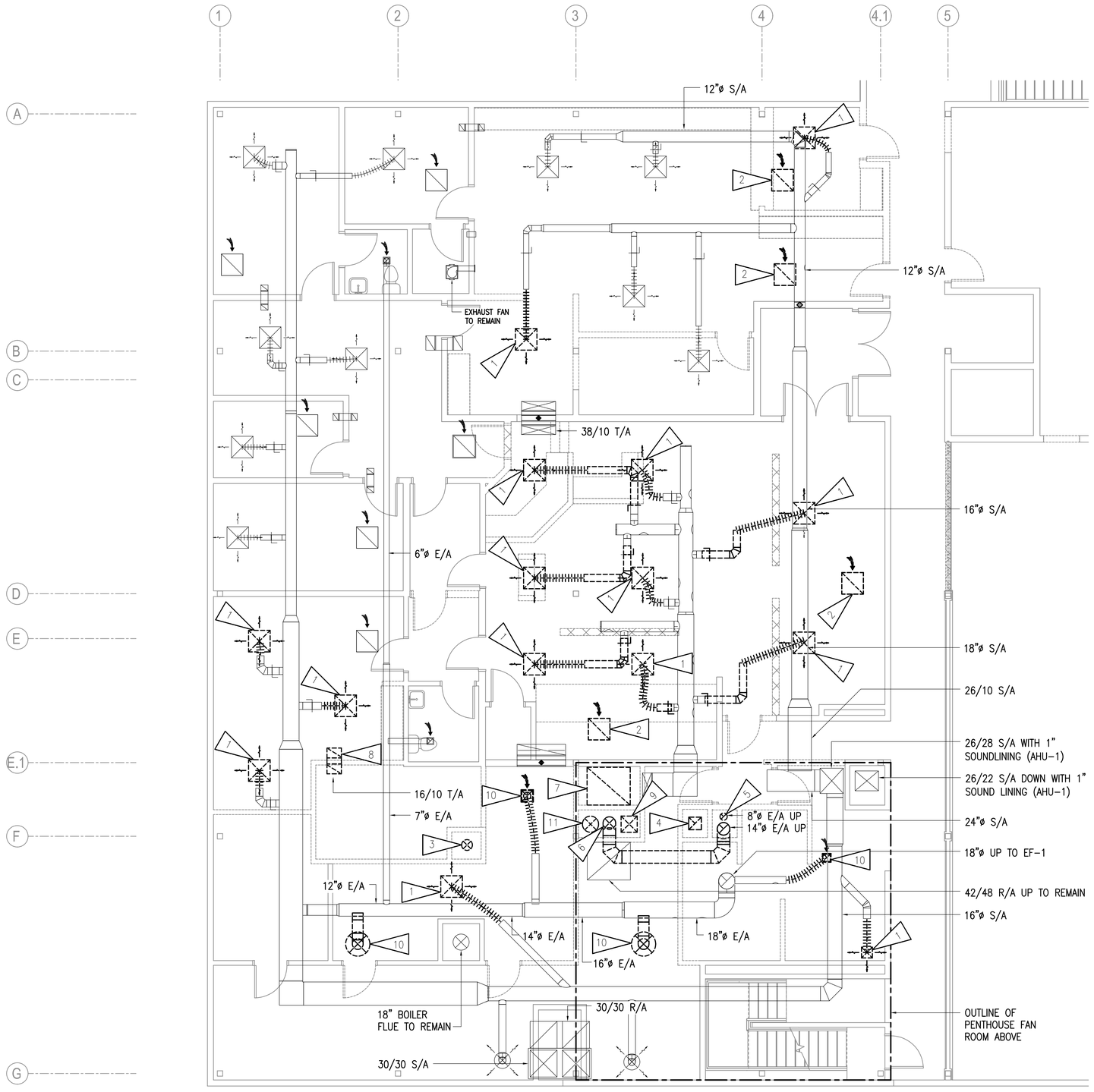
REVISION	DESCRIPTION	DATE

HEATING AND PLUMBING PIPING DEMOLITION PLANS - SECOND FLOOR

M102

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL



1 MECHANICAL DEMOLITION PLAN - BLOCK A - SECOND FLOOR

3/16" = 1'-0"

TRUE NORTH

GENERAL NOTES:

A. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM AS-BUILT DRAWINGS AND A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.

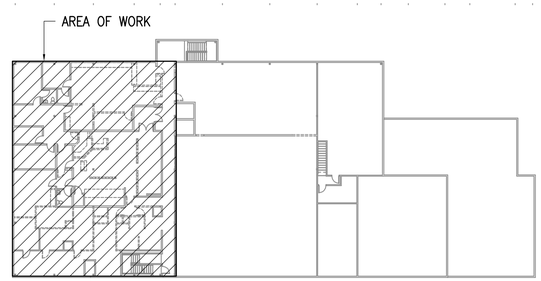
B. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A LOCATION AS DIRECTED BY THE OWNER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

C. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.

D. RELOCATE ALL SPRINKLER HEADS AS NOTED IN SPECIFICATIONS. LOCATE ALL HEADS TO PROVIDE COVERAGE AND CLEARANCE IN ACCORDANCE WITH NFPA 13. ALL SPRINKLER HEADS SHALL BE CENTERED IN CEILING TILES.

SHEET NOTES:

1. DEMOLISH SUPPLY AIR DIFFUSER AND ASSOCIATED BRANCH DUCT.
2. DEMOLISH RETURN AIR GRILLE.
3. DEMOLISH ABANDONED WATER HEATER FLUE.
4. DEMOLISH ABANDONED 14/14 GREASE DUCT UP.
5. DEMOLISH 8"ø E/A RISER DOWN TO FIRST FLOOR CEILING.
6. DEMOLISH 14"ø E/A RISER DOWN TO FIRST FLOOR CEILING.
7. DEMOLISH 42/48 R/A DOWN TO FIRST FLOOR CEILING.
8. DEMOLISH 16/10 T/A.
9. DEMOLISH ABANDONED MAKE UP AIR 18/18 DUCTWORK.
10. DEMOLISH EXHAUST AIR GRILLE AND ASSOCIATED BRANCH DUCT. CAP AT MAIN.
11. DEMOLISH 14"ø M/A TO SCULLERY.



KEYPLAN - SECOND FLOOR

1/32" = 1'-0"

TRUE NORTH

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
14TH
RR BESTFARD
ME-8973
5/1/23
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

RSA
Mechanical and Electrical Consulting Engineers
670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	CAA
CHECKED BY:	RRD/MRB

REVISION	DESCRIPTION	DATE

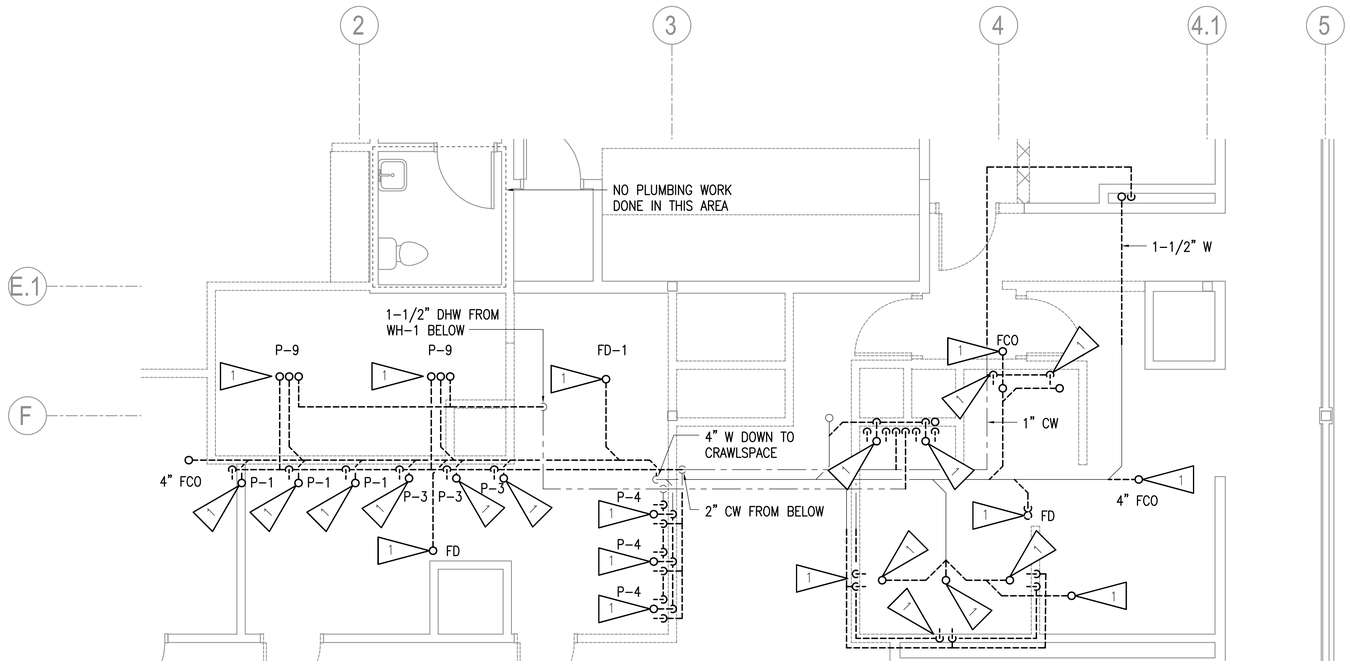
MECHANICAL DEMOLITION PLAN - BLOCK A - SECOND FLOOR

M103

BETTISWORTH NORTH ARCHITECTS & PLANNERS

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL

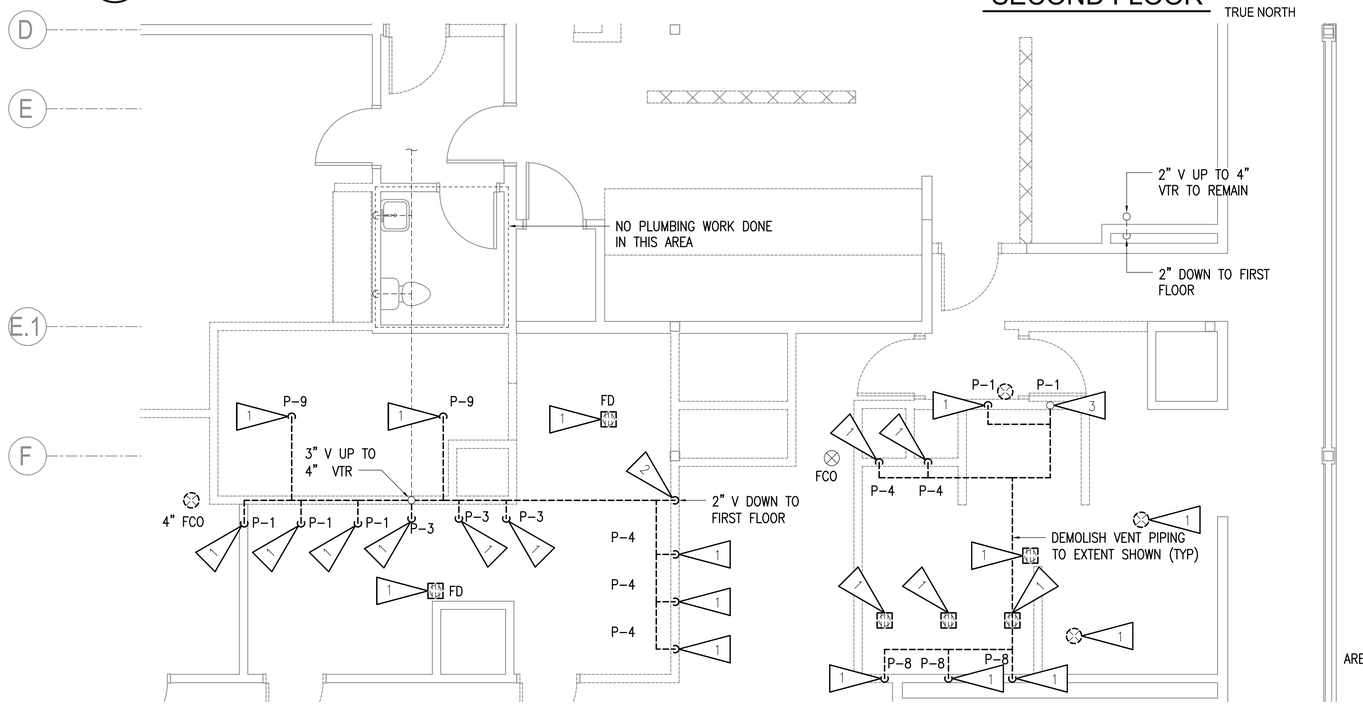


1 MEN'S AND WOMEN'S LOCKER ROOMS UNDERFLOOR DEMOLITION PLAN

1/4" = 1'-0"

SECOND FLOOR

TRUE NORTH



2 MEN'S AND WOMEN'S LOCKER ROOMS ABOVE FLOOR PIPING DEMOLITION PLAN

1/4" = 1'-0"

SECOND FLOOR

TRUE NORTH

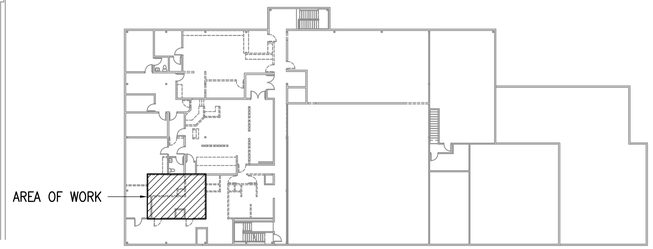
GENERAL NOTES:

A. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM AS-BUILT DRAWINGS AND A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.

B. RELOCATE ALL SPRINKLER HEADS AS NOTED IN SPECIFICATIONS. LOCATE ALL HEADS TO PROVIDE COVERAGE AND CLEARANCE IN ACCORDANCE WITH NFPA 13. ALL SPRINKLER HEADS SHALL BE CENTERED IN CEILING TILES.

SHEET NOTES: (#)

1. DEMOLISH PLUMBING FIXTURE AND ALL ASSOCIATED APPURTENANCES. DEMOLISH PIPING TO EXTENT NECESSARY TO ACCOMMODATE NEW WORK.
2. DEMOLISH VENT PIPING IN WALL DOWN TO FIRST FLOOR CEILING.
3. DEMOLISH VENT PIPING IN WALL. 4" VTR TO REMAIN.



KEYPLAN - SECOND FLOOR

1/32" = 1'-0"

TRUE NORTH

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA — 9TH — R.R. DESTEFANO — ME-8973 — 5/1/23 — REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM

KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES

KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

RSA

Mechanical and Electrical Consulting Engineers

670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	ARN
CHECKED BY:	RRD/MRB

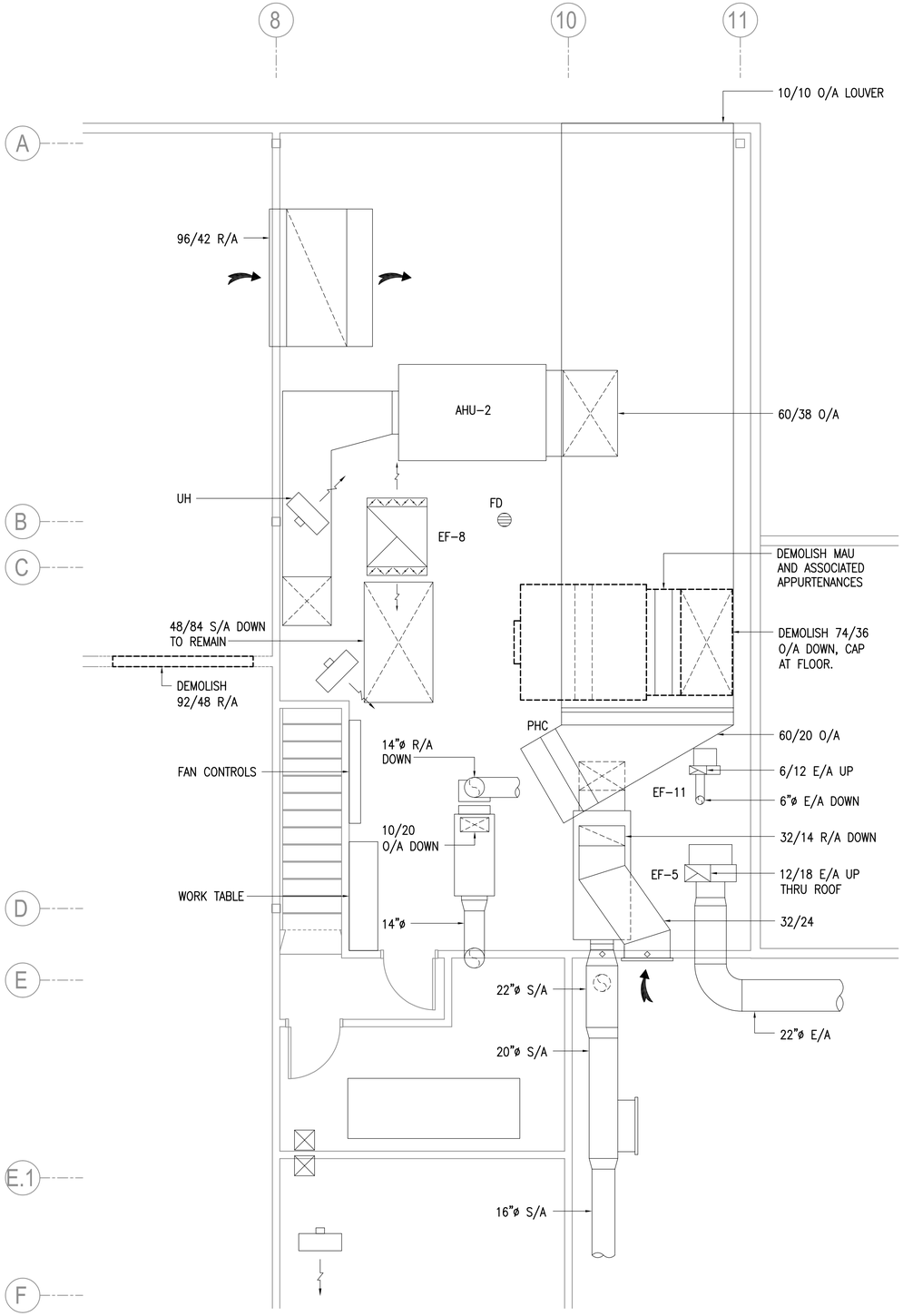
REVISION	DESCRIPTION	DATE

SECOND FLOOR MEN'S AND WOMEN'S LOCKER ROOM PIPING DEMOLITION PLANS

M104

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL



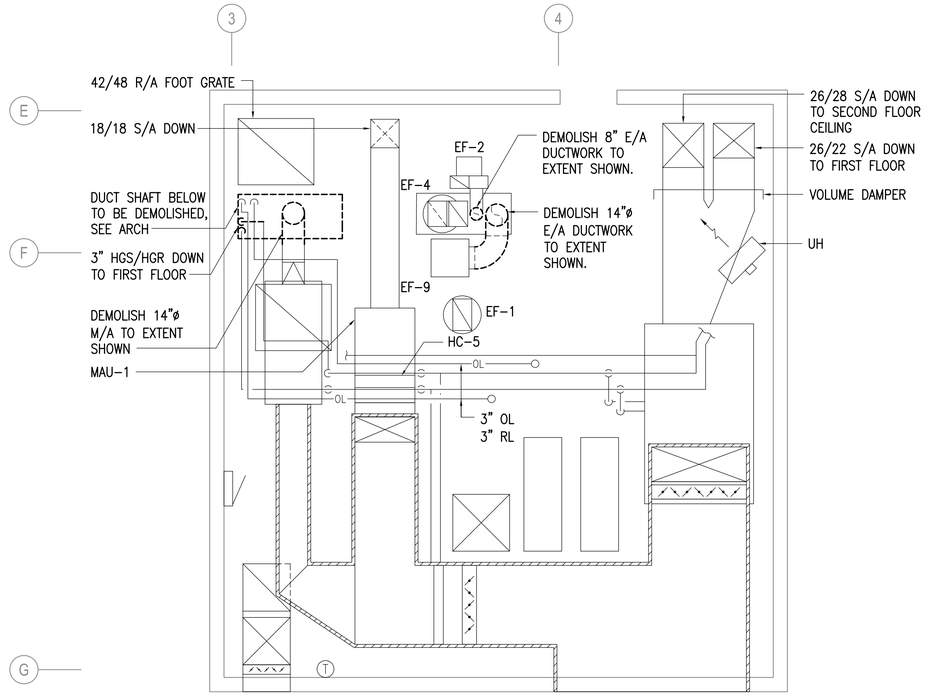
1 FAN ROOM 216 - DEMOLITION PLAN
1/4" = 1'-0"

TRUE NORTH

GENERAL NOTES:

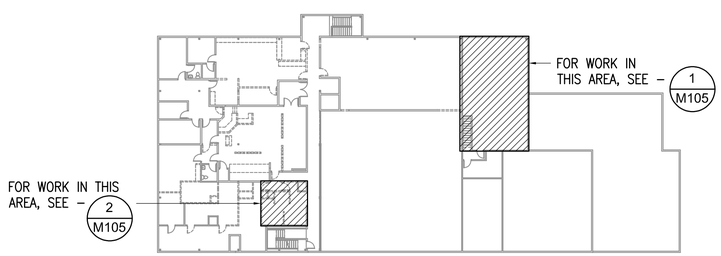
A. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM AS-BUILT DRAWINGS AND A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.

B. RELOCATE ALL SPRINKLER HEADS AS NOTED IN SPECIFICATIONS. LOCATE ALL HEADS TO PROVIDE COVERAGE AND CLEARANCE IN ACCORDANCE WITH NFPA 13. ALL SPRINKLER HEADS SHALL BE CENTERED IN CEILING TILES.



1 PENTHOUSE FAN ROOM - DEMOLITION PLAN
1/4" = 1'-0"

TRUE NORTH



KEYPLAN - SECOND FLOOR
1/32" = 1'-0"

TRUE NORTH

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
9TH
R.R. DIESTEFANO
ME-8973
5/1/23
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

RSA
Mechanical and Electrical Consulting Engineers
670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	ARN
CHECKED BY:	RRD/MRB

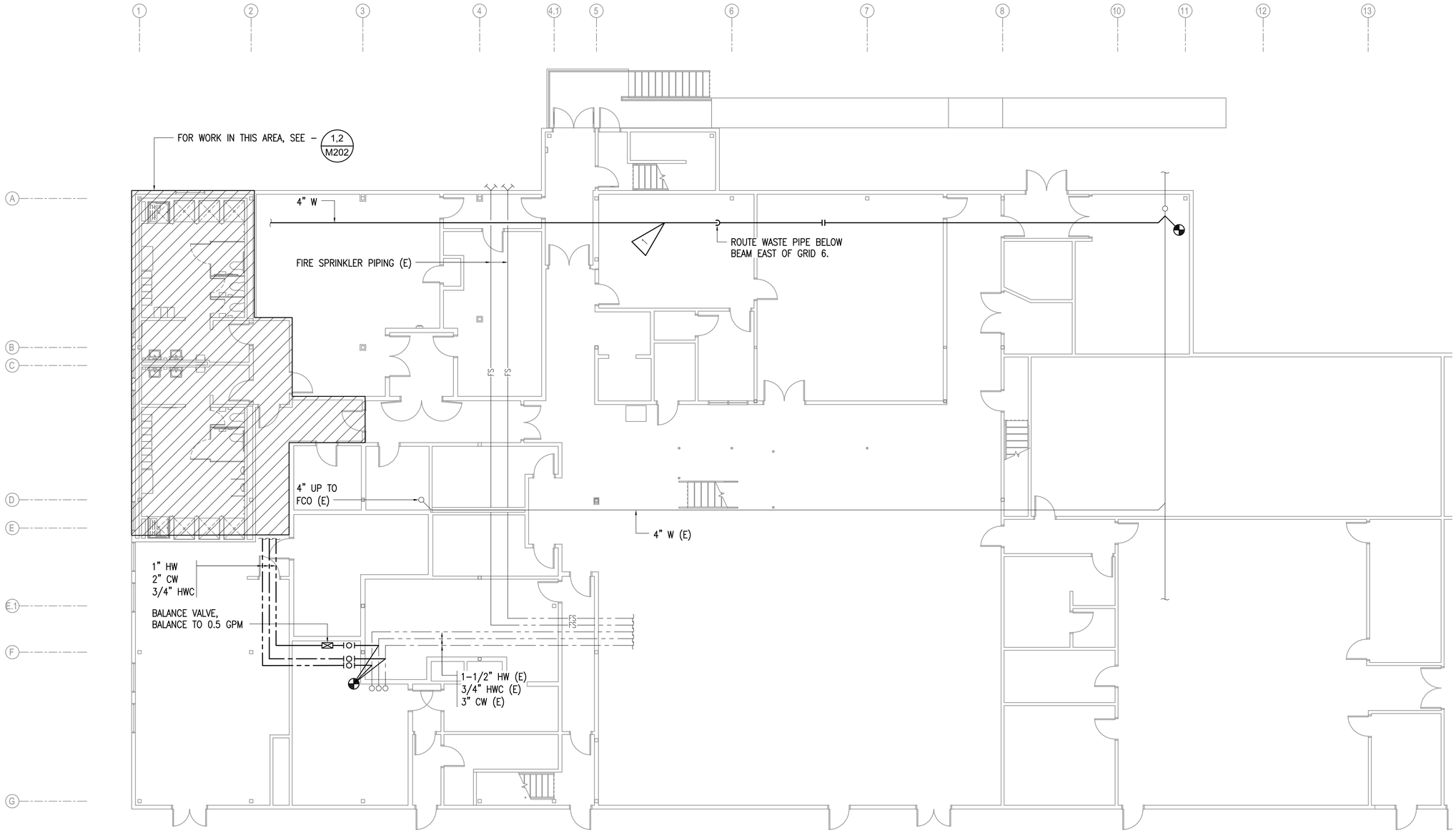
REVISION	DESCRIPTION	DATE

ENLARGED FAN ROOMS DEMOLITION

M105

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL



1 BELOW FLOOR PLUMBING PIPING PLAN - FIRST FLOOR

1/8" = 1'-0"

TRUE NORTH

SHEET NOTES

1. BEAM PENETRATIONS REQUIRED WEST OF GRID 6, SEE STRUCTURAL.

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
RR BESTEFAND
ME-8973
5/1/23
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

RSA

Mechanical and Electrical Consulting Engineers

670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	CAA
CHECKED BY:	RRD/MRB

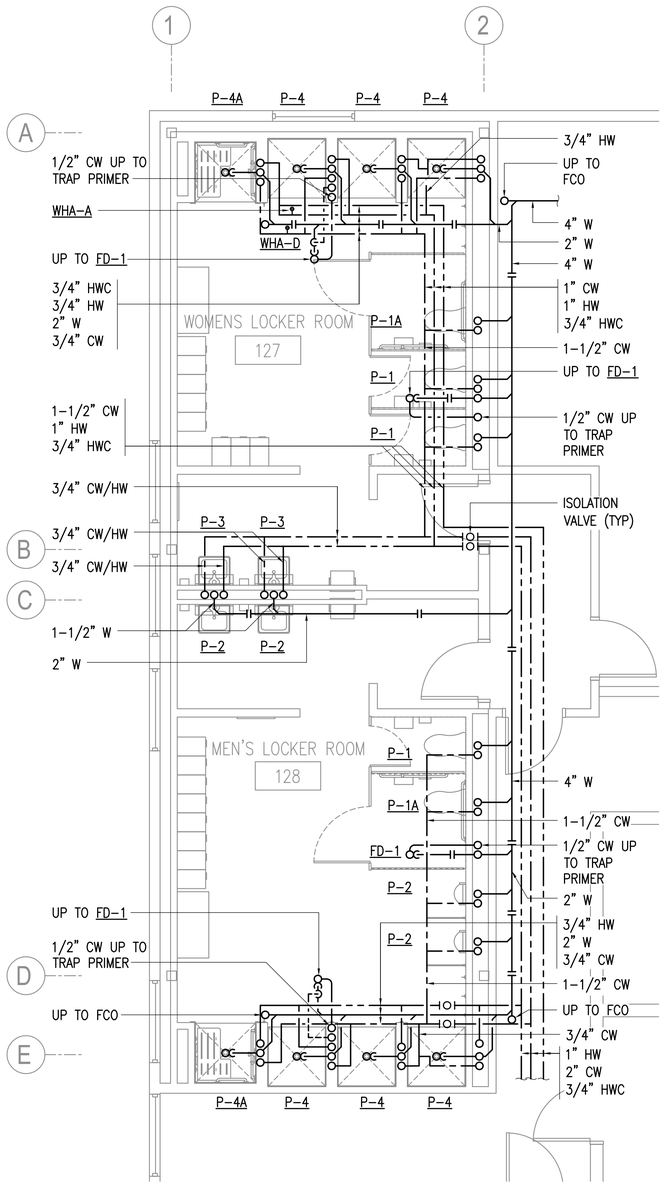
REVISION	DESCRIPTION	DATE

BELOW FLOOR PLUMBING PLAN - FIRST FLOOR

M201

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

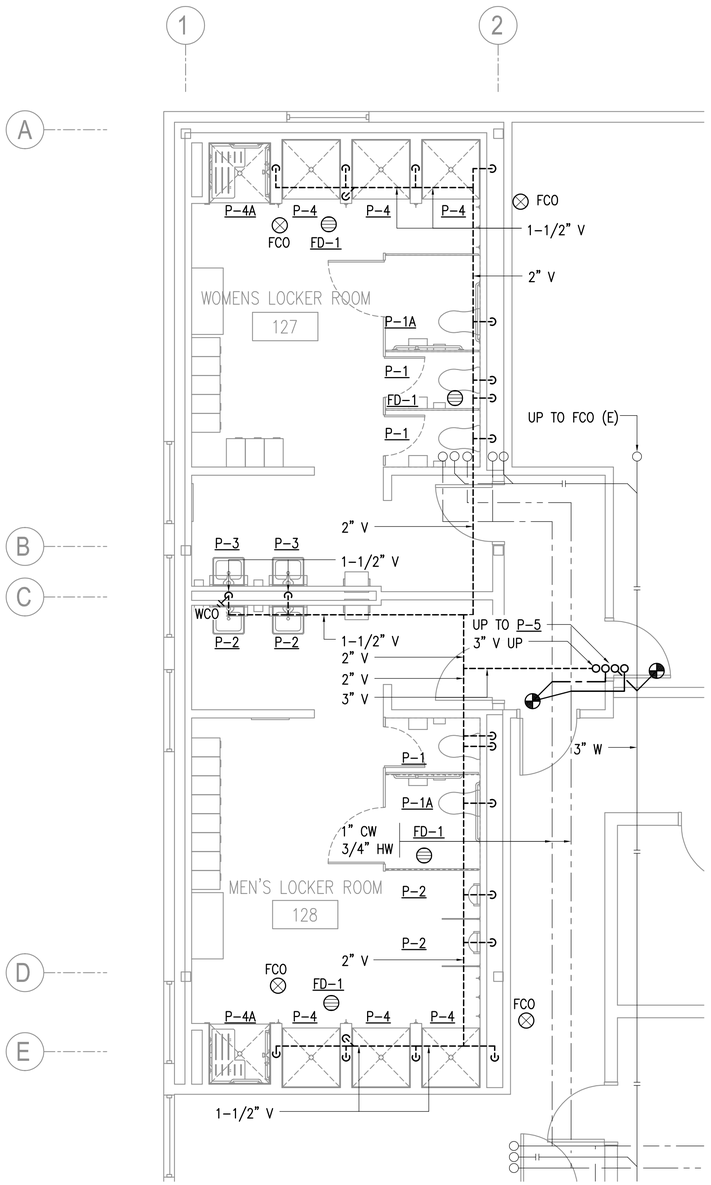
1" ACTUAL



1 BELOW FLOOR PLUMBING PIPING PLAN
1/4" = 1'-0"

FIRST FLOOR LOCKER ROOMS

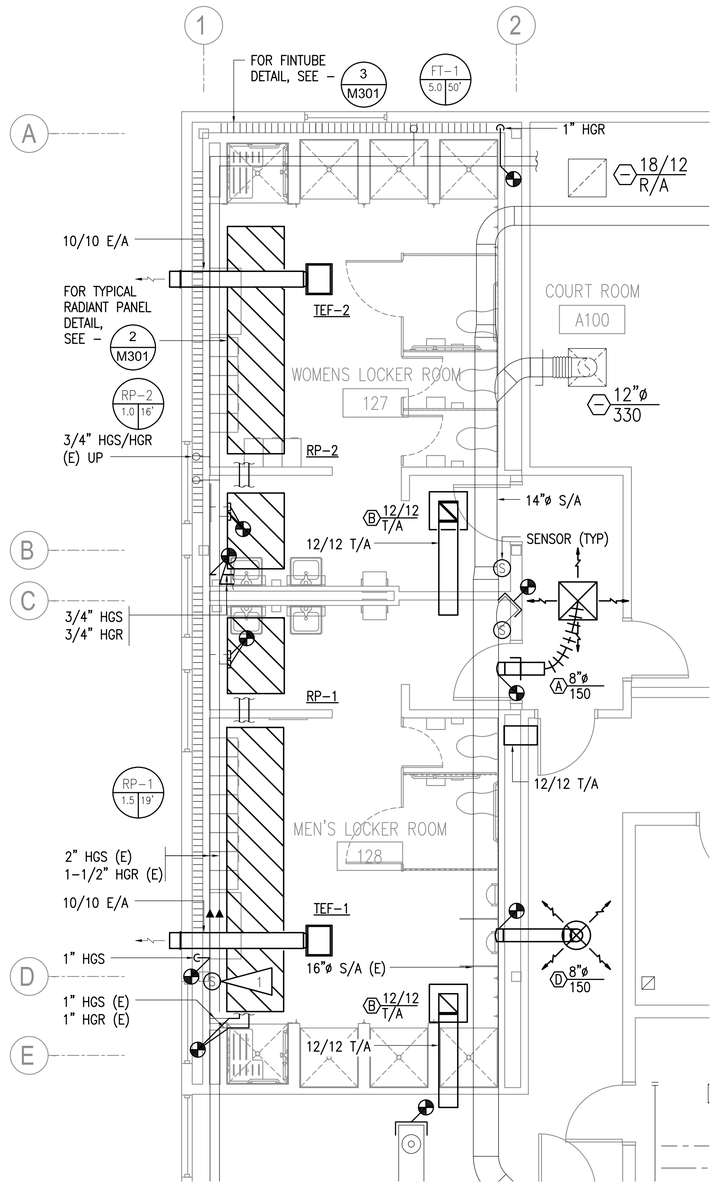
TRUE NORTH



2 ABOVE FLOOR PLUMBING PIPING PLAN
1/4" = 1'-0"

FIRST FLOOR LOCKER ROOMS

TRUE NORTH



3 HEATING AND VENTILATION PLAN
1/4" = 1'-0"

FIRST FLOOR LOCKER ROOMS

TRUE NORTH

AREA OF WORK

KEYPLAN - FIRST FLOOR
1/64" = 1'-0"

TRUE NORTH

GENERAL NOTES

A. RELOCATE ALL SPRINKLER HEADS AS NOTED IN SPECIFICATIONS. LOCATE ALL HEADS TO PROVIDE COVERAGE AND CLEARANCE IN ACCORDANCE WITH NFPA 13. ALL SPRINKLER HEADS SHALL BE CENTERED IN CEILING TILES.

SHEET NOTE:

1. PROVIDE REMOTE SENSOR IN WALL CAVITY IN ACCESSIBLE LOCATION.

BETTISWORTH NORTH

STATE OF ALASKA
9TH
R.R. BESTEFAND
ME-8973
5/1/23
REGISTERED PROFESSIONAL ENGINEER

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:
RSA
Mechanical and Electrical Consulting Engineers
670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	CAA
CHECKED BY:	RRD/MRB

REVISION	DESCRIPTION	DATE

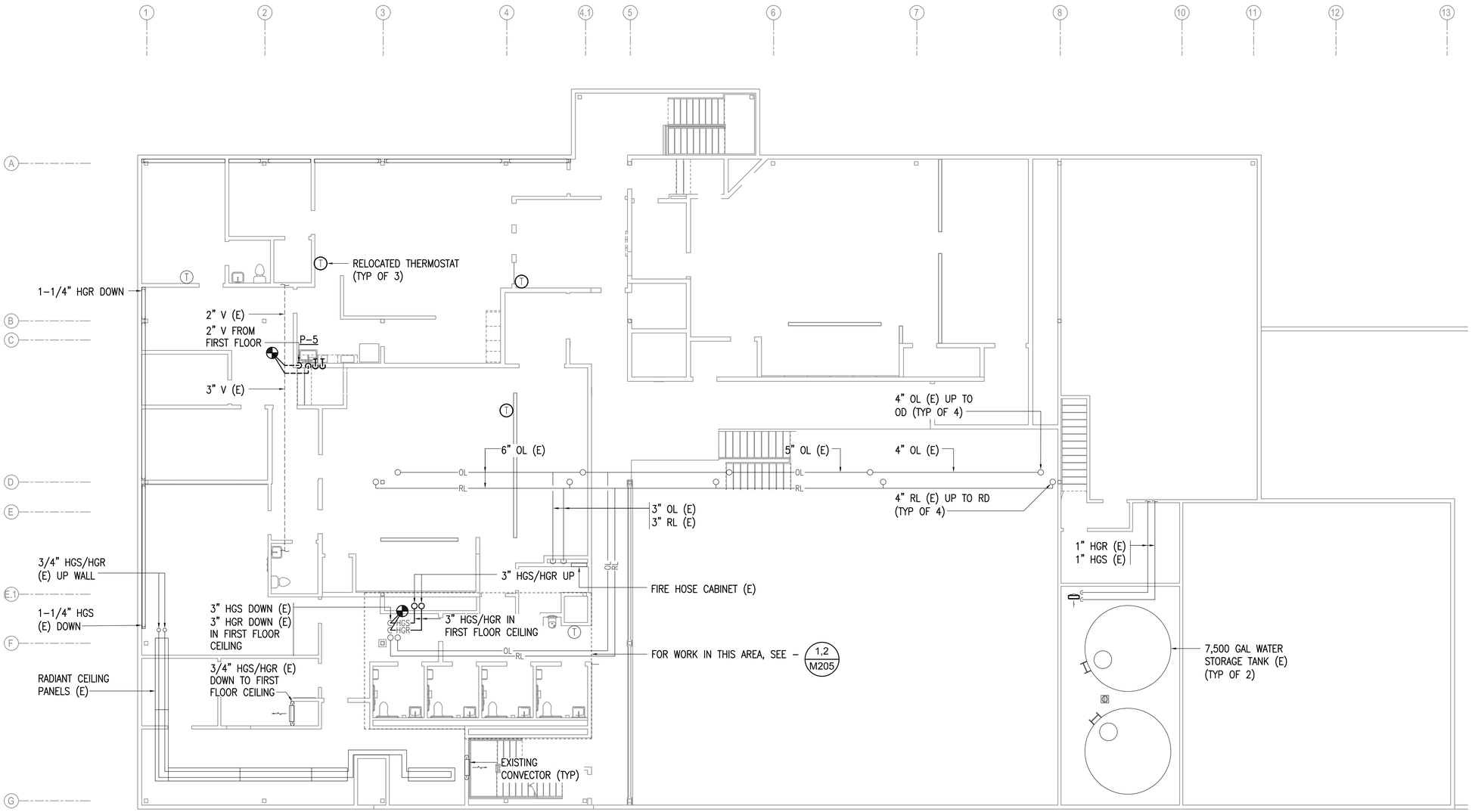
FIRST FLOOR LOCKER ROOM MECHANICAL PLANS

M202

BETTISWORTH NORTH ARCHITECTS & PLANNERS

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL



1 HEATING AND PLUMBING PIPING REMODEL PLAN - SECOND FLOOR

1/8" = 1'-0"

TRUE NORTH

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
10TH
R.R. BESTEFAND
ME-8973
5/1/23
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM

KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES

KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

RSA

Mechanical and Electrical Consulting Engineers

670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	ARN
CHECKED BY:	RRD/MRB

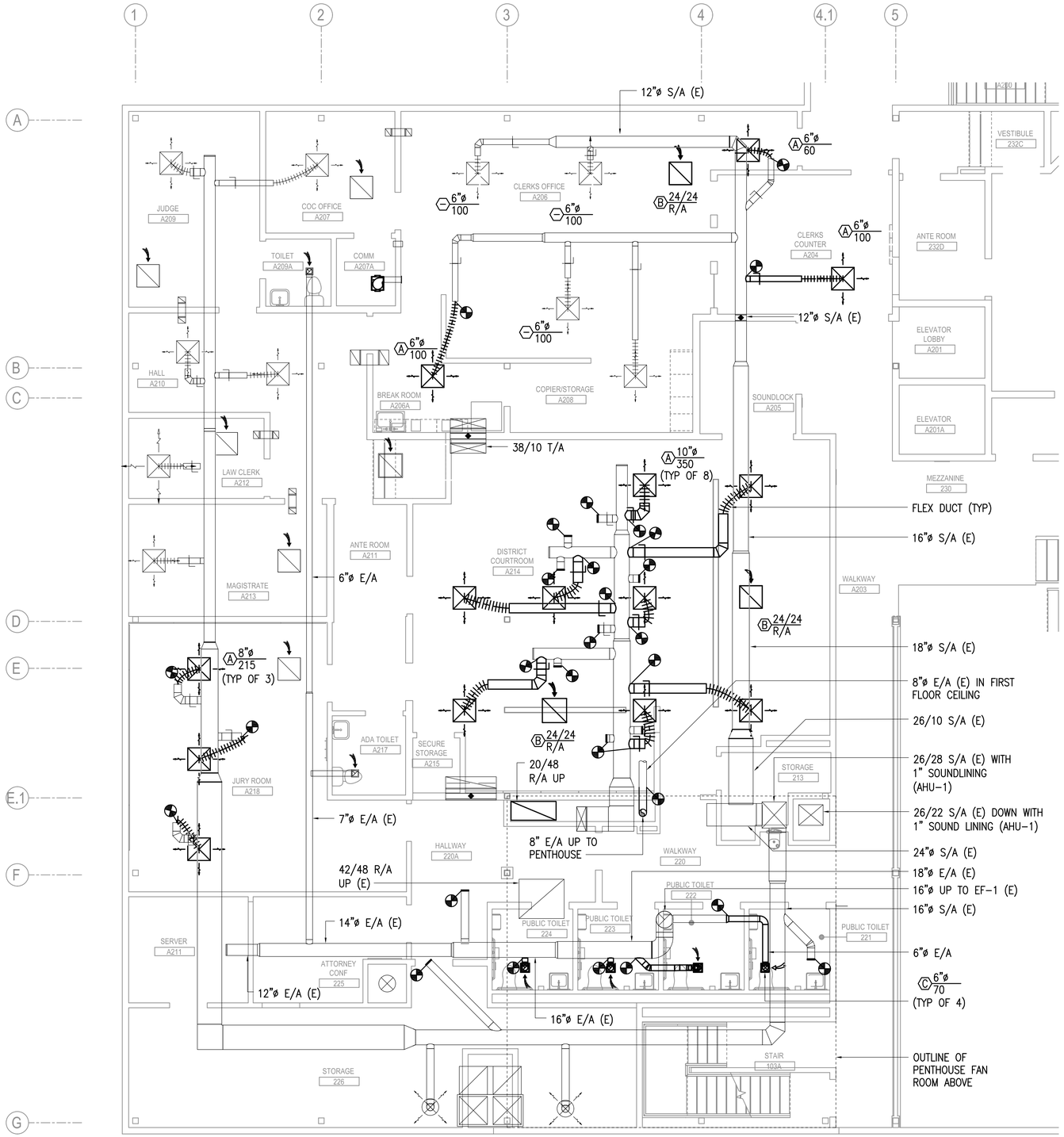
REVISION	DESCRIPTION	DATE

HEATING AND PLUMBING PIPING REMODEL PLAN

M203

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL

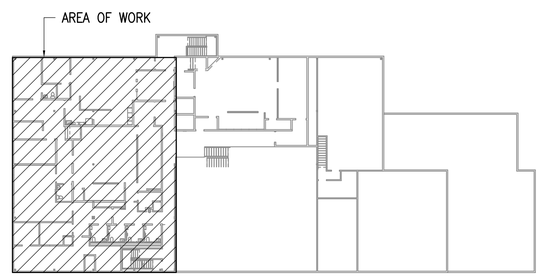


1 MECHANICAL REMODEL PLAN - BLOCK A
3/16" = 1'-0"

TRUE NORTH

GENERAL NOTES

A. RELOCATE ALL SPRINKLER HEADS AS NOTED IN SPECIFICATIONS. LOCATE ALL HEADS TO PROVIDE COVERAGE AND CLEARANCE IN ACCORDANCE WITH NFPA 13. ALL SPRINKLER HEADS SHALL BE CENTERED IN CEILING TILES.



KEYPLAN - SECOND FLOOR
1/32" = 1'-0"

TRUE NORTH

BETTISWORTH NORTH

STATE OF ALASKA
9TH
R.R. BIESTEFAND
ME-8973
5/1/23
REGISTERED PROFESSIONAL ENGINEER

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

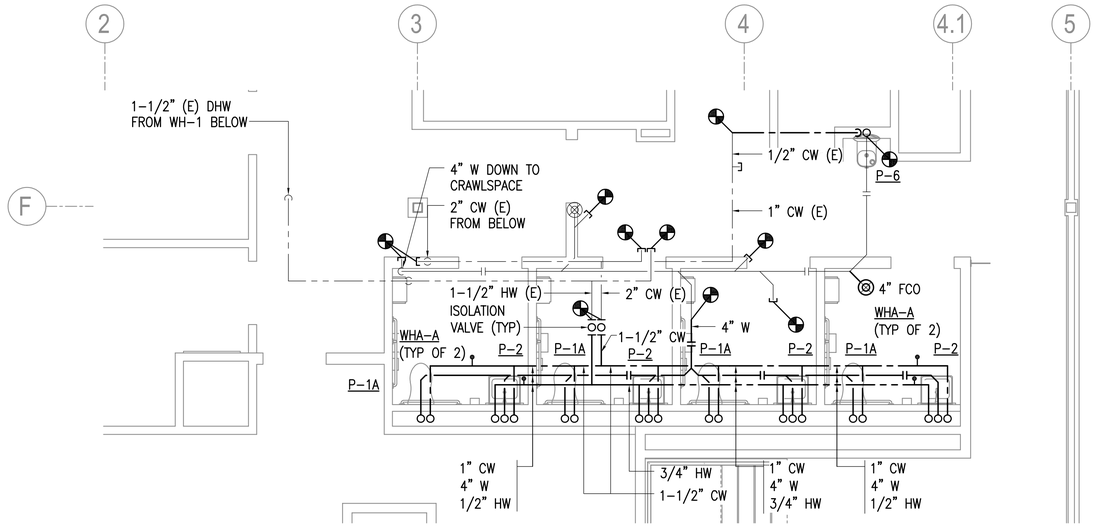
CONSULTANT:
RSA
Mechanical and Electrical Consulting Engineers
670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	CAA
CHECKED BY:	RRD/MRB

REVISION	DESCRIPTION	DATE

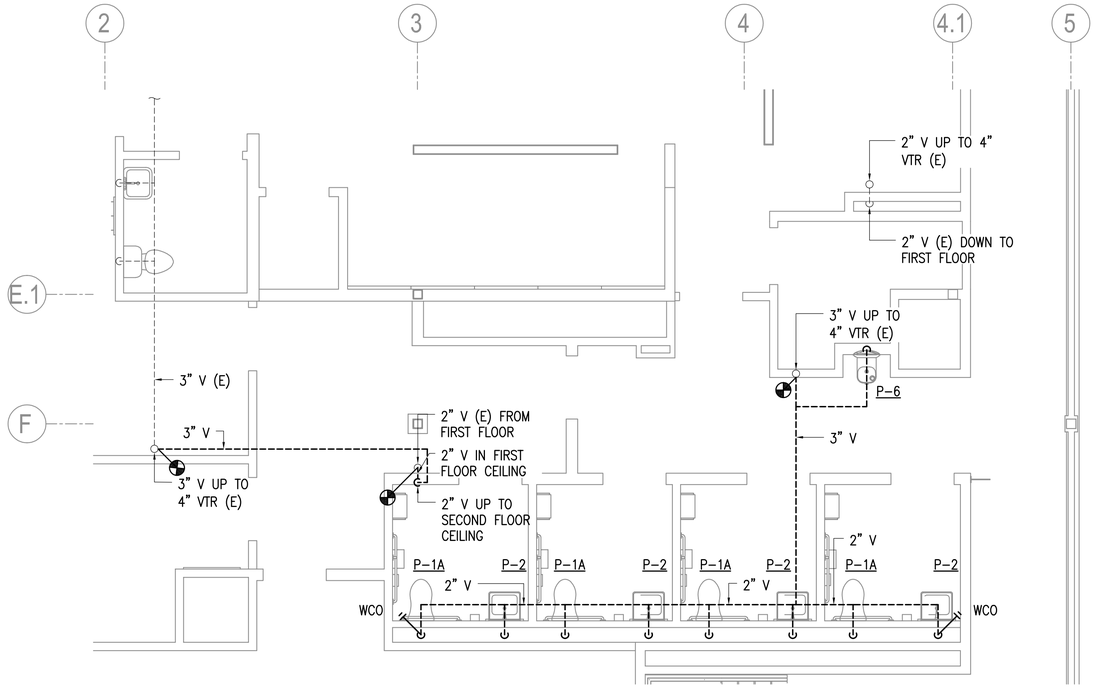
MECHANICAL REMODEL PLAN - BLOCK A

M204



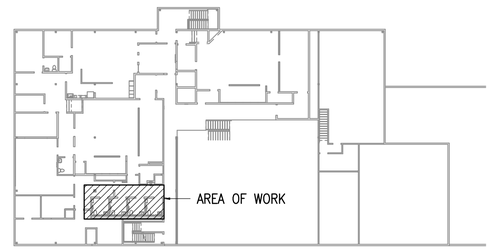
1 RESTROOM GROUP UNDERFLOOR PLUMBING PIPING REMODEL PLAN
1/4" = 1'-0"

TRUE NORTH



2 RESTROOM GROUP VENT PIPING REMODEL PLAN
1/4" = 1'-0"

TRUE NORTH



KEYPLAN - SECOND FLOOR
1/32" = 1'-0"

TRUE NORTH

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
RR BESTEFAND
ME-8973
5/1/23
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:
RSA
Mechanical and Electrical Consulting Engineers
670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	ARN
CHECKED BY:	RRD/MRB

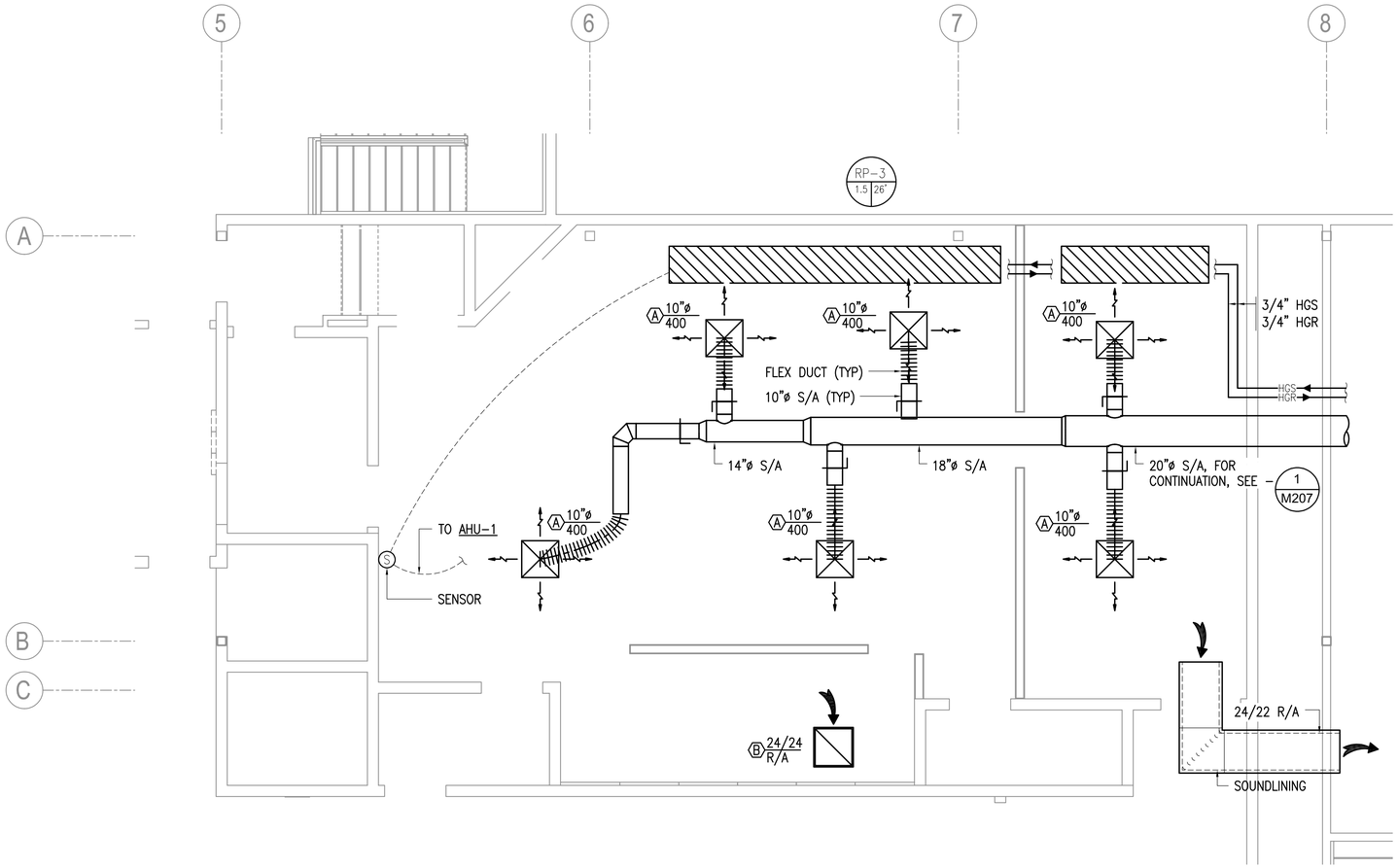
REVISION	DESCRIPTION	DATE

RESTROOM GROUP PIPING REMODEL

M205

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL



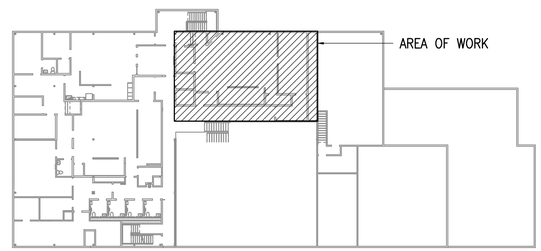
1 MECHANICAL REMODEL PLAN - BLOCK B

1/4" = 1'-0"

TRUE NORTH

GENERAL NOTES

A. RELOCATE ALL SPRINKLER HEADS AS NOTED IN SPECIFICATIONS. LOCATE ALL HEADS TO PROVIDE COVERAGE AND CLEARANCE IN ACCORDANCE WITH NFPA 13. ALL SPRINKLER HEADS SHALL BE CENTERED IN CEILING TILES.



KEYPLAN - SECOND FLOOR

1/32" = 1'-0"

TRUE NORTH

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
14TH
R.R. BESTEFAND
ME-8973
5/1/23
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

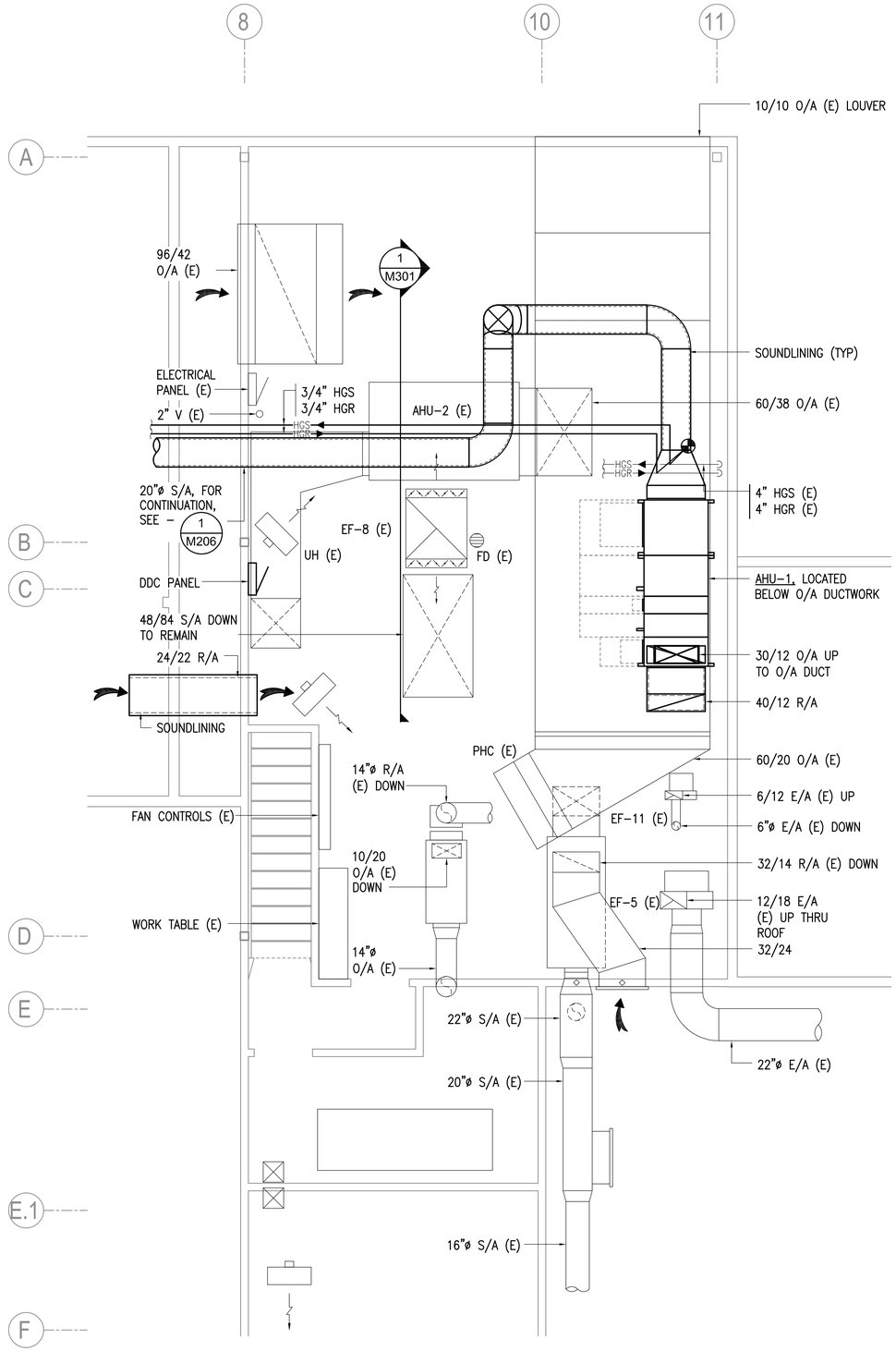
RSA
Mechanical and Electrical Consulting Engineers
670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	CAA
CHECKED BY:	RRD/MRB

REVISION	DESCRIPTION	DATE

MECHANICAL REMODEL PLAN - BLOCK B

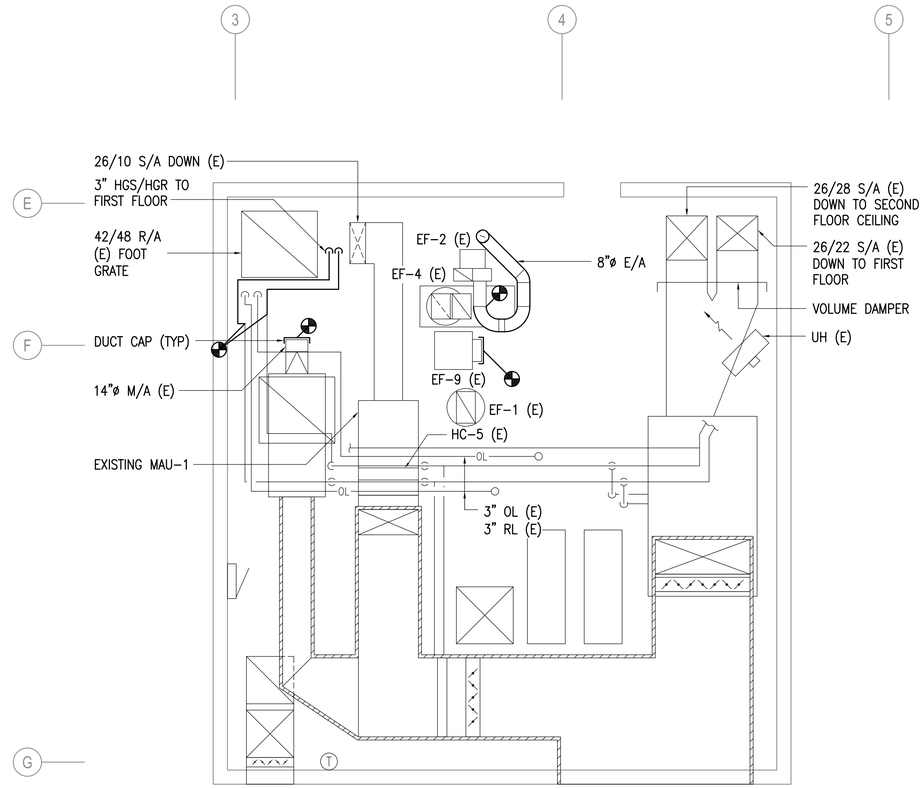
M206



1 FAN ROOM 216 - REMODEL PLAN

1/4" = 1'-0"

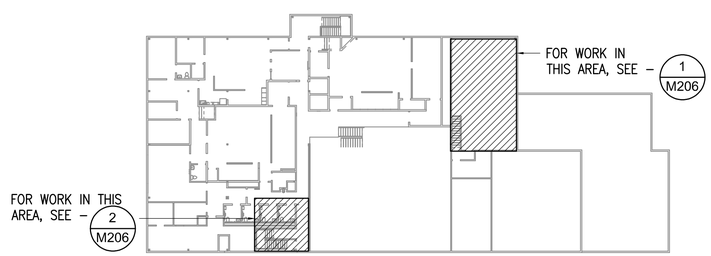
TRUE NORTH



2 PENTHOUSE FAN ROOM - REMODEL PLAN

1/4" = 1'-0"

TRUE NORTH



KEYPLAN - SECOND FLOOR

1/32" = 1'-0"

TRUE NORTH

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
9TH
R.R. DIESTEFANO
ME-8973
5/1/23
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

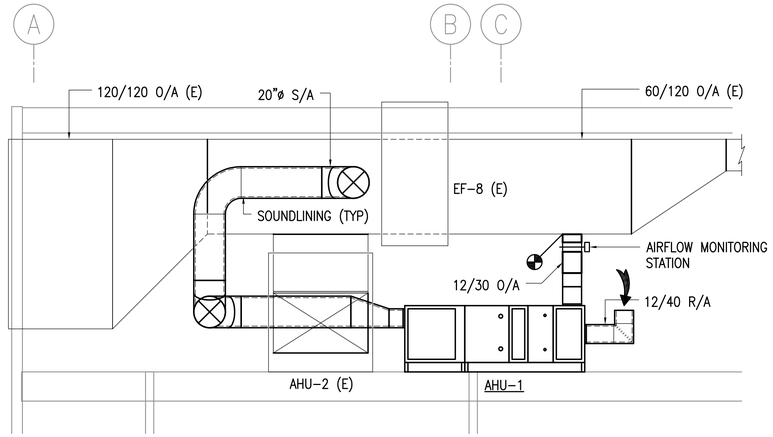
CONSULTANT:
RSA
Mechanical and Electrical Consulting Engineers
670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	ARN
CHECKED BY:	RRD/MRB

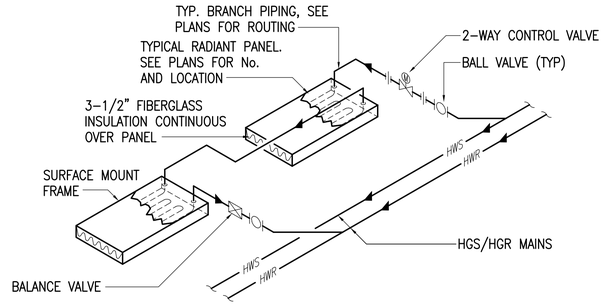
REVISION	DESCRIPTION	DATE

ENLARGED FAN ROOM REMODEL PLANS

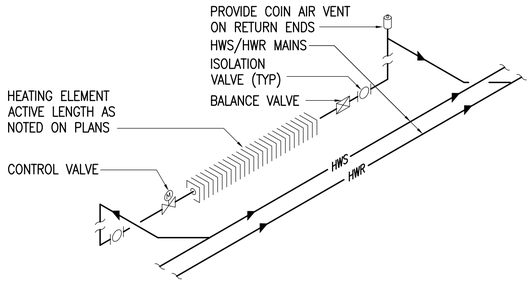
M207



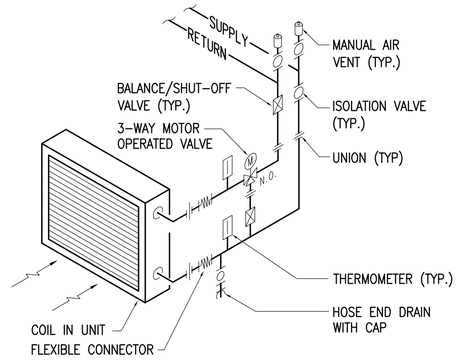
1 AHU-1 SECTION
1/4" = 1'-0"



2 RADIANT PANEL PIPING SCHEMATIC
NO SCALE



3 FINTUBE DETAIL
NO SCALE



4 AHU-1 COIL DETAIL
NO SCALE

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
RYAN R. DIESTELAND
ME-8973
5/1/23
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:
RSA
Mechanical and Electrical Consulting Engineers
670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	CAA
CHECKED BY:	RRD/MRB

REVISION	DESCRIPTION	DATE

BUILDING SECTIONS

M301

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL

LIGHT FIXTURE SCHEDULE

TYPE	LOCATION	MANUFACTURER AND CATALOG NUMBER (OR APPROVED EQUAL)	LUMINAIRE DESCRIPTION	MOUNTING		LAMPS	BALLAST/DRIVER	TOTAL INPUT WATTS
				TYPE	HEIGHT			
A1	COURTROOMS	FLUXWERX #TR1 24 C 40 E1 M	ARCHITECTURAL 2'X4' (PROVIDE WITH OPTION B WHERE NOTED EMERGENCY ON PLANS)	RECESSED	CEILING	4000K LED 4,300LM	120/277V DIMMING DRIVER DOWN TO 1%	38
A2	COURTROOMS	FLUXWERX #TR1 22 C 40 E1 M	SAME AS TYPE A1 EXCEPT 2'X2'	RECESSED	CEILING	4000K LED 4,000LM	120/277V DIMMING DRIVER DOWN TO 1%	38
B1	AS SHOWN	LITHONIA #2BLT4 40L ADSM EZ1 LP840	2'X4' TROFFER, CURVED SMOOTH LENS	RECESSED	CEILING	4000K LED 4,000LM	120/277V DIMMING DRIVER DOWN TO 1%	32
B2	AS SHOWN	LITHONIA #2BLT2 33L ADSM EZ1 LP840	SAME AS TYPE B1 EXCEPT 2'X2' AND LOWER LUMEN	RECESSED	CEILING	4000K LED 3,400LM	120/277V DIMMING DRIVER DOWN TO 1%	25
C1	AS SHOWN	GOTHAM #EVO6 40/15 AR LSS MD MVOLT GZ1	6" DIAMETER DOWNLIGHT, CLEAR REFLECTOR, SEMI-SPECULAR FINISH, MEDIUM DISTRIBUTION	RECESSED	CEILING	4000K LED 1,500LM	120/277V DIMMING DRIVER DOWN TO 1%	15
C2	RESTROOMS	GOTHAM #EVO6 40/20 AR LSS MD MVOLT GZ1	SAME AS TYPE C1 EXCEPT HIGHER LUMEN	RECESSED	CEILING	4000K LED 2,000LM	120/277V DIMMING DRIVER DOWN TO 1%	20
C3	AS SHOWN	GOTHAM #EVO6 40/15 AR LSS MD MVOLT GZ1 TRW	SAME AS TYPE C1 EXCEPT PAINTED FLANGE, PAINTED WHITE FLANGE	RECESSED	CEILING	4000K LED 1,500LM	120/277V DIMMING DRIVER DOWN TO 1%	15
D1	SUPERIOR COURTROOM	GOTHAM #ICO ADJ 40/20 6AC T20 LSS 40D 120 EZ1	6" DIAMETER ADJUSTABLE DOWNLIGHT, CLEAR TRIM, SEMI-SPECULAR FINISH	RECESSED	CEILING	4000K LED 2,000LM	120/277V DIMMING DRIVER DOWN TO 1%	33
D2	DISTRICT COURTROOM	GOTHAM #ICO ADJ 40/20 6AC T20 LSS 40D 120 EZ1 TRW	SAME AS TYPE C1 EXCEPT PAINTED FLANGE, PAINTED WHITE FLANGE	RECESSED	CEILING	4000K LED 2,000LM	120/277V DIMMING DRIVER DOWN TO 1%	33
E	AS SHOWN	LITHONIA #ELM4L	TWIN HEAD EMERGENCY LIGHT	WALL	7'-6" AFF	LED 640LM	120/277V	3
F	RESTROOMS	AXIS #ARWLED 750LM 80 40 S 2 AP 120 DP 1	2FT LINEAR LIGHT, ROUND SATIN LENS, ALUMINUM FINISH	WALL	6" ABOVE MIRROR	4000K LED 1,500LM	120/277V	14
G	AS SHOWN	LIGHTART #COL HFRD SCN 12H LIN 840CK WPB	ARCHITECTURAL WALL SCONCE, LINEA IVORY & NOIR FINISH, WHITE BACKPLATE	WALL	7'-6"	4000K LED 1,500LM	120/277V	8
H	STORAGE	LITHONIA #ZL1D L48 5000LM FST MVOLT 40K 80CRI WH	4FT STRIP FIXTURE, FROSTED DROP LENS	SURFACE	CEILING	4000K LED 5,000LM	120/277V	41
I1	CORRIDOR	LITHONIA #BLWP4 30L ADSM EZ1 LP840	4FT LINEAR FIXTURE, CURVED SMOOTH LENS, WHITE FINISH	SURFACE	CEILING	4000K LED 3,114LM	120/277V	25
I2	CORRIDOR	LITHONIA #BLWP4 40L ADSM EZ1 LP840	SAME AS TYPE I1 EXCEPT HIGHER LUMEN PACKAGE	SURFACE	CEILING	4000K LED 4,236LM	120/277V	35
J	LOCKER ROOM	KENALL #TMLHA12 48 R LG PP 45L40K DDC 120	4FT LINEAR HIGH ABUSE FIXTURE, PEARLESCENT POLYCARBONATE LENS, ROUNDED END CAPS, LIGHT GRAY FINISH	SURFACE	CEILING	4000K LED 5,000LM	120V	49
K	LOCKER ROOM	KENALL #MLHA5 24 R LG PP 25L40K DDC 120	2FT HIGH ABUSE VANITY, PEARLESCENT POLYCARBONATE LENS, ROUNDED END CAPS, LIGHT GRAY FINISH	WALL	6" ABOVE MIRROR	4000K LED 2,500LM	120V	25
XS	AS SHOWN	LITHONIA #LQM S W 3 G MVOLT ELN	EXIT SIGN, WHITE HOUSING, GREEN LETTERING, INTEGRAL BATTERY	SURFACE	CEILING	–	120/277V	1

LEGEND

○	ROUND LIGHT FIXTURE – PENDANT OR SURFACE MTD CLG		TELECOMMUNICATIONS OUTLET (COMBINATION TELEPHONE & DATA)
	LIGHT FIXTURE – SURFACE MTD ON WALL		TELECOMMUNICATIONS FLOOR OUTLET
	LIGHT FIXTURE – RECESSED DOWNLIGHT		SPEAKER
	EMERGENCY EXIT LIGHT – SURFACE MTD CLG	M	MICROPHONE OUTLET
	EMERGENCY EXIT LIGHT – SURFACE MTD WALL	TV	TELEVISION OUTLET
	EMERGENCY LIGHT	DPC	DOOR POSITION CONTACT
	LINEAR EMERGENCY FIXTURE	EL	ELECTRONIC DOOR LOCK
	LINEAR LIGHT FIXTURE – RECESS MTD	EED	ELECTRIFIED EXIT DEVICE
	LINEAR LIGHT FIXTURE – SURFACE MTD CLG	CR	PROXIMITY CARD READER
	LINEAR LIGHT FIXTURE – WALL MTD		CLOSED CIRCUIT TELEVISION CAMERA (WALL MOUNTED)
	STRIPLIGHT – PENDANT OR SURFACE MTD CLG		CLOSED CIRCUIT TELEVISION CAMERA (CEILING MOUNTED)
A	FIXTURE TAG (LETTER INDICATES TYPE)	FCP	FIRE ALARM CONTROL PANEL
$	SINGLE POLE SWITCH		FIRE ALARM PULL STATION
$a	SINGLE POLE SWITCH (LOWERCASE LETTER INDICATES SWITCHING)	, CLG	FIRE ALARM HORN (WALL, CLG MOUNTED)
$3 , $4	THREE WAY SWITCH, FOUR WAY SWITCH	, CLG	FIRE ALARM HORN/STROBE LIGHT (WALL, CLG MOUNTED)
$D	DIMMER SWITCH	, CLG	FIRE ALARM STROBE LIGHT (WALL, CLG MOUNTED)
$OS	OCCUPANCY SENSOR WALL SWITCH (DUALTECH)		HEAT DETECTOR 135° & RATE OF RISE (OR FIXED °F IF NOTED)
OS	OCCUPANCY SENSOR – CEILING MOUNTED (DUALTECH)		PHOTOELECTRIC SMOKE DETECTOR
OS	OCCUPANCY SENSOR – WALL MOUNTED (PIR)		DUCT TYPE PHOTOELECTRIC SMOKE DETECTOR
	CONDUIT, CONCEALED	M	MAGNETIC HOLD OPEN
#10	NUMBER AND SIZE OF WIRES (NO MARKS = 3 #12)		DUPLEX RECEPTACLE TO BE REMOVED (DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED TYPICAL)
A-2	HOMERUN TO PANEL (PANEL AND CIRCUIT No.)	1	NOTE TAG (No. INDICATES NOTE)
	PANEL	AFF	ABOVE FINISHED FLOOR
	DUPLEX RECEPTACLE	C	CONDUIT
	DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER	E	DENOTES EXISTING ITEM
	QUADRAPLEX RECEPTACLE	EM	DENOTES EMERGENCY POWER
	SPECIAL PURPOSE OUTLET	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
	RECEPTACLE FLOOR OUTLET – DUPLEX, QUADRAPLEX	K	KELVIN
	JUNCTION BOX	LED	LIGHT EMITTING DIODE
	MOTOR (SIZED AS NOTED)	LM	LUMENS
$F	FRACTIONAL HORSEPOWER MOTOR STARTER	NEC	NATIONAL ELECTRICAL CODE
	DISCONNECT SWITCH	NL	NIGHTLIGHT
	DISCONNECT SWITCH (FUSED)	OFOI	OWNER FURNISHED, OWNER INSTALLED
	COMBINATION DISCONNECT/MAGNETIC MOTOR STARTER	R	DENOTES EXISTING ITEM THAT HAS BEEN RELOCATED
VFD	VARIABLE FREQUENCY DRIVE WITH INTEGRAL DISCONNECT	TYP	TYPICAL
		WAP	WIRELESS ACCESS POINT

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA 20TH JEREMY A. MAXIE EE-113847 5/1/23 REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:
RSA
Mechanical and Electrical Consulting Engineers
670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	FS
CHECKED BY:	JAM,PCC

REVISION	DESCRIPTION	DATE

ELECTRICAL LEGEND AND FIXTURE SCHEDULE

E001

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL

ELECTRICAL SPECIFICATIONS

26 05 00 – COMMON WORK RESULTS FOR ELECTRICAL

A. SCOPE OF WORK: FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT FOR A COMPLETE AND WORKABLE ELECTRICAL SYSTEM AS INDICATED ON THE DRAWINGS AND IN THESE SPECIFICATIONS.

B. STANDARDS, CODES AND REGULATIONS: COMPLY WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE, INTERNATIONAL BUILDING CODE, AND INTERNATIONAL FIRE CODE INCLUDING ALL STATE AND LOCAL AMENDMENTS TO THESE CODES. COMPLY WITH THE LATEST PUBLISHED VERSION OF THE NECA STANDARD OF INSTALLATION.

C. DRAWINGS: THE DRAWINGS ARE DIAGRAMMATIC, NOT NECESSARILY SHOWING ALL OFFSETS OR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. UNLESS SPECIFICALLY DIMENSIONED. REVIEW THE DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT FURNISHED BY OTHER CRAFTS BUT INSTALLED IN ACCORDANCE WITH THIS SECTION. BRING QUESTIONABLE OR OBSCURE ITEMS, APPARENT CONFLICTS BETWEEN PLANS AND SPECIFICATIONS, GOVERNING CODES OR UTILITIES REGULATIONS TO THE ATTENTION OF THE ARCHITECT/ENGINEER. CODES, ORDINANCES, REGULATIONS, MANUFACTURER'S INSTRUCTIONS OR STANDARDS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH THE DRAWINGS AND SPECIFICATIONS.

D. RECORD DRAWINGS: MARK UP A CLEAN SET OF DRAWINGS AS THE WORK PROGRESSES TO SHOW THE DIMENSIONED LOCATION AND ROUTING OF ALL ELECTRICAL WORK WHICH WILL BECOME PERMANENTLY CONCEALED. SHOW ROUTING OF WORK IN PERMANENTLY CONCEALED BLIND SPACES WITHIN THE BUILDING. SHOW COMPLETE ROUTING AND SIZING OF ANY SIGNIFICANT REVISIONS TO THE SYSTEMS SHOWN.

E. WORKMANSHIP: INSTALLATION OF ALL WORK SHALL BE MADE SO THAT ITS SEVERAL COMPONENT PARTS SHALL FUNCTION AS A WORKABLE SYSTEM COMPLETE WITH ALL ACCESSORIES NECESSARY FOR ITS OPERATION. ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, INSTRUCTIONS AND/OR INSTALLATION DRAWINGS AND IN ACCORDANCE WITH NECA STANDARDS. MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL CONFORM WITH APPLICABLE INDUSTRY STANDARDS, NEMA STANDARDS AND UNDERWRITERS LABORATORIES STANDARDS WHERE APPLICABLE.

F. SUBMITTALS: PROVIDE MATERIAL AND EQUIPMENT SUBMITTALS CONTAINING A COMPLETE LISTING OF MATERIAL AND EQUIPMENT SHOWN ON THE DRAWINGS. INCLUDE CATALOG NUMBERS, WIRING DIAGRAMS, ROUGH-IN DIMENSIONS AND PERFORMANCE DATA FOR ALL MATERIAL AND EQUIPMENT. SUBMITTALS SHALL BE IN ELECTRONIC .PDF FORMAT, SEPARATE FROM WORK FURNISHED UNDER OTHER DIVISIONS. INDEX AND CLEARLY IDENTIFY ALL MATERIAL AND EQUIPMENT BY ITEM, NAME OR DESIGNATION USED ON THE DRAWINGS. SUBMITTAL REVIEW IS FOR GENERAL DESIGN AND ARRANGEMENT ONLY AND DOES NOT RELIEVE THE CONTRACTOR FROM ANY REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE SUBMITTALS ARE NOT CHECKED FOR QUANTITY, DIMENSION, OR FOR PROPER OPERATION. WHERE DEVIATIONS OF A SUBSTITUTE PRODUCT OR SYSTEM PERFORMANCE HAVE NOT BEEN SPECIFICALLY NOTED IN THE SUBMITTAL BY THE CONTRACTOR, PROVISIONS OF A COMPLETE AND SATISFACTORY WORKING INSTALLATION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

G. OPERATION AND MAINTENANCE MANUALS: PROVIDE OPERATION AND MAINTENANCE MANUALS FOR TRAINING OF THE OWNER'S PERSONNEL. DESCRIBE THE PROCEDURES NECESSARY TO OPERATE THE SYSTEM INCLUDING START-UP, OPERATION, EMERGENCY OPERATION AND SHUTDOWN. PROVIDE INSTRUCTIONS AND A SCHEDULE OF PREVENTIVE MAINTENANCE IN TABULAR FORM FOR ALL ROUTINE CLEANING, INSPECTION AND LUBRICATION WITH RECOMMENDED LUBRICANTS. PROVIDE INSTRUCTIONS FOR MINOR REPAIR OR ADJUSTMENTS REQUIRED FOR PREVENTIVE MAINTENANCE ROUTINES. PROVIDE MANUFACTURER'S DESCRIPTIVE LITERATURE INCLUDING APPROVED SHOP DRAWINGS COVERING DEVICES USED IN ANY CONTRACTOR-PROVIDED EQUIPMENT OR SYSTEMS WITH ILLUSTRATION, EXPLODED VIEWS, ETC.

H. WARRANTY: THE CONTRACTOR SHALL GUARANTEE ALL WORK EXECUTED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM BENEFICIAL OCCUPANCY. ANY FAULTY MATERIALS OR WORKMANSHIP SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER DURING THE GUARANTEE PERIOD.

I. PERMITS: SECURE AND PAY FOR ALL FEES, PERMITS, ETC. REQUIRED BY LOCAL AND STATE AGENCIES.

J. REFERENCE SYMBOLS: THE ELECTRICAL "LEGEND" ON THE DRAWINGS IS A STANDARDIZED VERSION, AND ALL SYMBOLS SHOWN MAY NOT BE USED. USE THE "LEGEND" AS A REFERENCE FOR THE SYMBOLS USED ON THE DRAWINGS.

K. PENETRATION OF FIRE BARRIERS: ALL ELECTRICAL PENETRATIONS THROUGH FIRE RATED BARRIERS SHALL BE SEALED IN ACCORDANCE WITH NEC ARTICLE 300.21 AND THE FOLLOWING:

1. ALL HOLES OR VOIDS CREATED TO EXTEND ELECTRICAL SYSTEMS THROUGH FIRE RATED FLOORS, WALLS OR CEILING SHALL BE SEALED WITH AN ASBESTOS-FREE INTUMESCENT FIRE STOPPING MATERIAL CAPABLE OF EXPANDING 8 TO 10 TIMES WHEN EXPOSED TO TEMPERATURES 250 DEGREES F OR HIGHER.
2. MATERIALS SHALL BE SUITABLE FOR THE FIRE STOPPING OF PENETRATIONS MADE BY STEEL, GLASS, PLASTIC AND SHALL BE CAPABLE OF MAINTAINING AN EFFECTIVE BARRIER AGAINST FLAME, SMOKE AND GASES IN COMPLIANCE WITH THE REQUIREMENTS OF ASTM E814, UL 1479 AND THE UL FIRE RESISTANCE DIRECTORY REQUIREMENTS FOR THROUGH-PENETRATION FIRESTOP DEVICES (XHCR).
3. THE RATING OF THE FIRE STOPS SHALL BE THE SAME AS THE TIME-RATED FLOOR, WALL OR CEILING ASSEMBLY.
4. INSTALL FIRE STOPPING MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

26 05 05 – SELECTIVE DEMOLITION FOR ELECTRICAL

A. DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING RECORD DRAWING. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DISTURBING THE EXISTING INSTALLATION. DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL. PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN ALL EXISTING ELECTRICAL SYSTEMS (TELEPHONE, FIRE ALARM, LIGHTING, ELECTRICAL SERVICE, ETC.) IN SERVICE DURING CONSTRUCTION. DISABLE SYSTEMS ONLY TO MAKE SWITCHOVERS AND CONNECTIONS.

B. OBTAIN PERMISSION FROM OWNER AT LEAST 24 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION AND MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.

C. REMOVE, RELOCATE AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY. REMOVE EXPOSED ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. WHERE ABANDONED CONDUIT ENTERS EXISTING SURFACES TO REMAIN, CUT CONDUIT FLUSH WITH WALLS AND FLOORS, AND PATCH SURFACES. DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED.

D. DISCONNECT AND REMOVE ELECTRICAL DEVICES AND EQUIPMENT SERVING UTILIZATION EQUIPMENT THAT HAS BEEN REMOVED. DISCONNECT AND REMOVE ABANDONED LUMINAIRES. REMOVE BRACKETS, STEMS, HANGERS AND OTHER ACCESSORIES. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE.

E. CONTRACTOR TO FIELD VERIFY CONDUITS AND ELECTRICAL ITEMS IN WALLS TO BE DEMOLISHED PRIOR TO START OF WORK. DEMOLISH CONDUITS, BOXES, DEVICES, EQUIPMENT, ETC. IN WALLS THAT ARE SCHEDULED FOR DEMOLITION. WHERE CONDUITS PASS THROUGH THE WALLS OR CIRCUITS ARE SHARED WITH EQUIPMENT THAT IS EXISTING TO REMAIN, PROVIDE ALL WORK NECESSARY (INCLUDING EXTENDING AND RE-ROUTING CONDUITS) TO MAINTAIN ACCESS AND PROVIDE ELECTRICAL CONTINUITY TO EXISTING SYSTEMS AND CIRCUITRY

26 05 19 – WIRE AND CABLE

A. SUBMITTALS: NONE REQUIRED FOR THIS SECTION.

B. MATERIALS:

1. ALL CONDUCTORS SHALL BE COPPER WITH TYPE XHHW, THWN, THW OR THHN INSULATION. MINIMUM BRANCH CIRCUIT CONDUCTOR SIZE SHALL BE 12 AWG. MINIMUM CONTROL CIRCUIT CONDUCTOR SIZE SHALL BE #18 AWG.
2. CONTROL CIRCUITS SHALL BE COPPER, STRANDED CONDUCTOR, 600V INSULATION, THHN/THWN, MINIMUM SIZE 18 AWG.
3. TYPE MC CABLE: SOLID COPPER CONDUCTOR, 600 VOLT THERMOPLASTIC INSULATION, RATED 90° C, INSULATED GREEN GROUNDING CONDUCTOR, AND GALVANIZED STEEL ARMOR OVER MYLAR. MC CABLE USED FOR FIRE ALARM WIRING SHALL BE COLORED RED AND LISTED FOR FIRE ALARM USE.
4. 0-10V DIMMING/POWER MC CABLE (TYPE MC-PCS), SIZE 12 THROUGH 10 AWG WITH 16-2 CONTROL CABLES: SOLID COPPER CONDUCTOR, 600 VOLT THERMOPLASTIC INSULATION, RATED 90° C DRY, 75° C WET, INSULATED GREEN GROUNDING CONDUCTOR, AND GALVANIZED STEEL OR ALUMINUM ARMOR OVER MYLAR.

C. INSTALLATION:

1. COLOR CODE WIRES BY LINE OR PHASE. COLOR CODE THE 120/208V CONDUCTORS BLACK, RED, BLUE, AND WHITE.
2. DO NOT SHARE NEUTRAL CONDUCTORS. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT THAT REQUIRES A NEUTRAL.
3. USE PROPERLY SIZED INSULATED SPRING WIRE CONNECTORS WITH PLASTIC CAPS FOR ALL CONDUCTORS #8 AWG AND SMALLER. TERMINATE #6 AWG AND LARGER CONDUCTORS WITH CRIMP OR COMPRESSION TYPE CONNECTORS INSTALLED WITH TOOL RECOMMENDED BY CONNECTION MANUFACTURER AND INSULATE WITH PROPERLY SIZED 600 VOLT RATED HEAT SHRINK TUBING.
4. INSTALLATION SCHEDULE: BUILDING WIRE IN RACEWAYS AT ALL LOCATIONS UNLESS OTHERWISE NOTED. PROVIDE XHHW-2 FOR FEEDERS AND IN EXTERIOR LOCATIONS. TYPE MC CABLE MAY BE USED FOR BRANCH CIRCUIT WIRING IN DRY, INTERIOR LOCATIONS OTHER THAN HOMERUNS. HOMERUNS SHALL BE BUILDING WIRE IN RACEWAY. METAL CLAD CABLE USED FOR BRANCH CIRCUIT WIRING FROM A LIGHT SWITCH OR LIGHTING CONTROL STATION TO THE LIGHT FIXTURE SHALL INCLUDE A NEUTRAL CONDUCTOR. METAL CLAD CABLE USED FOR BRANCH CIRCUIT WIRING TO LED FIXTURES THAT HAVE 0-10V DIMMING CAPABILITY SHALL BE TYPE MC-PCS
5. AT THE CONTRACTOR'S OPTION, PORTIONS OF THE FIRE ALARM WIRING IN DRY, CONCEALED LOCATIONS MAY BE INSTALLED IN FIRE ALARM METAL CLAD CABLE.

26 05 26 – GROUNDING AND BONDING

A. SUBMITTALS: NONE REQUIRED FOR THIS SECTION.

B. INSTALLATION:

1. PROVIDE A SEPARATE, INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ALL NEW BRANCH CIRCUITS AND FEEDERS. TERMINATE EACH END ON A GROUNDING LUG, BUS, OR BUSHING.
2. MECHANICAL CONNECTORS: NON-REVERSIBLE CRIMP TYPE LUGS ONLY. USE FACTORY MADE COMPRESSION LUG FOR ALL TERMINATIONS. FOR TELECOMMUNICATION SYSTEMS USE COPPER, COPPER ALLOY, OR TIN-PLATED COPPER, NON-REVERSIBLE LONG BARREL CRIMP TYPE BOLT LUGS WITH TWO BOLT TONGUES FOR 6 AWG OR LARGER CONDUCTORS. CRIMP TYPE ONE HOLE FOR CONDUCTORS SMALLER THAN 6 AWG.
3. BOND TOGETHER EXPOSED NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT, METAL RACEWAY SYSTEMS, GROUNDING CONDUCTOR IN RACEWAYS AND CABLES, RECEPTACLE GROUND CONNECTORS, AND PLUMBING SYSTEMS.

26 05 29 – HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS

A. SUBMITTALS: NONE REQUIRED FOR THIS SECTION.

B. MATERIAL: SUPPORT CHANNEL SHALL BE GALVANIZED OR PAINTED STEEL. HARDWARE SHALL BE CORROSION RESISTANT.

C. INSTALLATION: EQUIPMENT WEIGHING MORE THAN 50 POUNDS SHALL BE ADEQUATELY ANCHORED TO THE BUILDING STRUCTURE TO RESIST LATERAL EARTHQUAKE FORCES. PROVIDE SAFETY CHAINS FOR LIGHT FIXTURES, SUPPORTED FROM T-BAR OR OTHER CEILING SUSPENSION SYSTEM, CAPABLE OF SUPPORTING A MINIMUM OF 200 POUNDS. ATTACH SAFETY CHAINS AT EACH CORNER OF FIXTURE CONNECTED SUCH THAT FIXTURE WILL NOT DROP BELOW A HEIGHT OF 7'-6" IN THE EVENT OF A CEILING SUSPENSION SYSTEM FAILURE.

26 05 33 – RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS

A. SUBMITTALS: SUBMIT PRODUCT DATA FOR FLOORBOXES

B. MATERIALS

1. RIGID STEEL CONDUIT: ANSI C80.1. FITTINGS AND CONDUIT BODIES: ANSI/NEMA FB 1; THREADED TYPE WITH INSULATED THROAT BUSHINGS, MATERIAL TO MATCH CONDUIT.
2. INTERMEDIATE METAL CONDUIT (IMC): GALVANIZED STEEL. FITTINGS AND CONDUIT BODIES: ANSI/NEMA FB 1; USE FITTINGS AND CONDUIT BODIES SPECIFIED ABOVE FOR RIGID STEEL CONDUIT.
3. ELECTRICAL METALLIC TUBING CONDUIT (EMT): ANSI C80.3. GALVANIZED TUBING. FITTINGS AND CONDUIT BODIES: ANSI/NEMA FB 1; STEEL OR MALLEABLE IRON, COMPRESSION TYPE OR SET SCREW FITTINGS WITH INSULATED THROAT BUSHINGS. DIE-CAST FITTINGS ARE NOT ACCEPTABLE. MAXIMUM SIZE SHALL BE 2". PROVIDE FACTORY ELBOWS ON SIZES 1-1/2" AND LARGER.
4. FLEXIBLE METAL CONDUIT: FS WW-C-566; STEEL, FULL WALL OR REDUCED WALL THICKNESS. FITTINGS AND CONDUIT BODIES: ANSI/NEMA FB 1; STEEL OR MALLEABLE IRON WITH INSULATED THROAT BUSHINGS. DIE CAST FITTINGS ARE NOT ACCEPTABLE.
5. LIQUIDTIGHT FLEXIBLE CONDUIT: FLEXIBLE METAL CONDUIT WITH PVC JACKET. FITTINGS AND CONDUIT BODIES: ANSI/NEMA FB 1; STEEL OR MALLEABLE IRON WITH INSULATED THROAT BUSHINGS. DIE CAST FITTINGS ARE NOT ACCEPTABLE.
6. PROVIDE GALVANIZED OR CADMIUM PLATED, ONE PIECE PRESSED STEEL OUTLET BOXES 4 INCH SQUARE OR OCTAGONAL, 1-1/2 INCHES DEEP MINIMUM SIZE FOR USE IN INTERIOR AREAS.
7. FOR TELECOMMUNICATIONS SYSTEMS, OUTLET BOXES SHALL BE 4-11/16 INCHES SQUARE, 2-1/4 INCHES DEEP MINIMUM.
8. PROVIDE CAST ALUMINUM OR FERALLOY TYPE BOXES WITH GASKETED COVER, THREADED HUBS AND NEMA 3R RATING FOR USE IN EXTERIOR OR WET LOCATIONS.
9. FLOORBOXES: PROVIDE FLOORBOX SUITABLE FOR CONCRETE OR WOOD FLOOR INSTALLATION WITH UL SCRUBPROOF COVER. WIREMOLD #RFB4E-OG (OR EQUAL) 4-GANG BOX WITH ROUND, EVOLUTION COVER AND NICKEL FINISH. PROVIDE FLUSH COVER FOR TILE FLOORS (WIREMOLD #6CTNK) AND SURFACE COVER FOR CARPET FLOORS (WIREMOLD #6CTCNK). PROVIDE INTERNAL BRACKETS AS REQUIRED.

C. INSTALLATION:

1. INSTALL CONDUIT FOR ALL SYSTEMS UNLESS OTHERWISE NOTED, 1/2 INCH MINIMUM SIZE, EXCEPT CONDUIT FOR SPECIAL SYSTEMS SHALL BE 3/4" MINIMUM, EXPOSED OUTDOOR LOCATIONS, WET INTERIOR LOCATIONS, BRANCH CIRCUITS 60 AMPERES OR LARGER, AND FEEDERS SHALL BE RIGID STEEL CONDUIT OR INTERMEDIATE METAL CONDUIT.
2. EXPOSED DRY INTERIOR LOCATIONS SHALL BE RIGID STEEL CONDUIT OR INTERMEDIATE METAL CONDUIT. ELECTRICAL METALLIC TUBING MAY BE USED EXPOSED WHEN INSTALLED ON THE CEILING, A MINIMUM OF TEN FEET ABOVE THE FLOOR OR WHERE NOT SUBJECT TO PHYSICAL DAMAGE. EMT MAY ALSO BE USED FOR CONCEALED, DRY, INTERIOR LOCATIONS.
3. MOTOR AND EQUIPMENT CONNECTIONS SHALL BE SHORT EXTENSIONS OF FLEXIBLE METAL CONDUIT TO ALLOW FOR VIBRATION. LIQUIDTIGHT FLEXIBLE CONDUIT AND FITTINGS SHALL BE USED FOR THESE CONNECTIONS IN DAMP OR WET LOCATIONS.
4. INSTALL RACEWAYS PER THE LATEST NECA (NATIONAL ELECTRICAL CONTRACTOR'S ASSOCIATION) STANDARDS.
5. PAINT ALL EXPOSED CONDUIT IN FINISHED AREAS TO MATCH SURFACE TO WHICH IT IS ATTACHED OR CROSSES. CLEAN GREASY OR DIRTY CONDUIT PRIOR TO PAINTING IN ACCORDANCE WITH PAINT MANUFACTURER'S INSTRUCTIONS.
6. ALL CONDUIT FOR THE TELECOMMUNICATIONS DISTRIBUTION SYSTEM SHALL BE INSTALLED WITH NO MORE THAN 270 DEGREES OF BENDS BETWEEN PULLBOXES. PULL BOXES SHALL NOT BE USED IN LIEU OF CONDUIT BENDS. CONDULETS (LB FITTINGS) SHALL NOT BE INSTALLED IN ANY TELECOMMUNICATIONS RACEWAY.
7. PROVIDE OUTLET BOXES AS SHOWN ON THE DRAWINGS, AND AS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT CONNECTIONS, DEVICE INSTALLATION AND CODE COMPLIANCE.
8. INSTALL FITTINGS AND FLEXIBLE METAL CONDUIT TO ACCOMMODATE 3-AXIS MOVEMENTS WHERE RACEWAY CROSSES SEISMIC JOINTS. INSTALL FITTINGS DESIGNED AND LISTED TO ACCOMMODATE EXPANSION AND CONTRACTION WHERE RACEWAY CROSSES CONTROL AND EXPANSION JOINTS.
9. DO NOT INSTALL BOXES BACK-TO-BACK IN WALLS. PROVIDE A MINIMUM 6 INCH SEPARATION FOR MINIMUM SOUND TRANSMISSION.
10. USE MULTIPLE-GANG BOXES WHERE MORE THAN ONE DEVICE ARE MOUNTED TOGETHER; DO NOT USE SECTIONAL BOXES.
11. SUPPORT BOXES INDEPENDENTLY OF CONDUIT.
12. COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF OUTLETS MOUNTED ABOVE COUNTERS, BENCHES AND BACKSPLASHES.

26 05 53 – IDENTIFICATION FOR ELECTRICAL SYSTEMS

A. SUBMITTALS: NONE REQUIRED FOR THIS SECTION.

B. MATERIALS:

1. NAMEPLATES: ENGRAVED THREE-LAYER LAMINATED PLASTIC, WHITE LETTERS ON A BLACK BACKGROUND. NAMEPLATES SHALL BE PROVIDED TO IDENTIFY ALL ELECTRICAL DISTRIBUTION AND CONTROL EQUIPMENT AND LOADS SERVED.
2. TAPE LABELS: ADHESIVE TAPE LABELS, WITH 3/16 INCH BOLD BLACK LETTERS ON CLEAR BACKGROUND MADE USING DYMO RHINOPRO 5000 OR EQUAL LABEL PRINTER.
3. WIRE AND CABLE MARKERS: CLOTH MARKERS, SPLIT SLEEVE OR TUBING TYPE.

C. INSTALLATION:

1. GEAR: PROVIDE ENGRAVED THREE-LAYER LAMINATED PLASTIC NAMEPLATES WITH WHITE LETTERS ON A BLACK BACKGROUND TO IDENTIFY ALL ELECTRICAL DISTRIBUTION, CONTROL EQUIPMENT, LOADS SERVED, AND LOW-VOLTAGE SYSTEM PANELS.
2. CONDUITS: MARK ALL CONDUITS ENTERING OR LEAVING PANELBOARDS WITH INDELIBLE BLACK MAGIC MARKER WITH THE CIRCUIT NUMBERS OF THE CIRCUITS CONTAINED INSIDE. LABEL FEEDER CONDUITS AND SPARE CONDUITS AT EACH END WITH SOURCE AND TERMINATION POINT.
3. JUNCTION BOXES: MARK ALL CIRCUIT NUMBERS OF WIRING ON ALL JUNCTION BOXES WITH SHEET STEEL COVERS. MARK WITH INDELIBLE BLACK MARKER. ON EXPOSED JUNCTION BOXES IN PUBLIC AREAS, MARK ON INSIDE OF COVER. MARK ALL FIRE ALARM SYSTEM JUNCTION BOXES WITH SHEET STEEL COVERS WITH "FA." MARK WITH INDELIBLE RED MARKER. MARK ALL OTHER SPECIAL SYSTEM JUNCTION BOXES WITH SHEET STEEL COVERS.
4. WIRE IDENTIFICATION: PROVIDE WIRE MARKERS ON EACH CONDUCTOR IN PANELBOARD GUTTERS, PULL BOXES, OUTLET AND JUNCTION BOXES, AND AT LOAD CONNECTION. MARKERS SHALL BE LOCATED WITHIN ONE INCH OF EACH CABLE END, EXCEPT AT PANELBOARDS, WHERE MARKERS FOR BRANCH CIRCUIT CONDUCTORS SHALL BE VISIBLE WITHOUT REMOVING PANEL DEADFRONT.
5. DEVICE PLATES: LABEL EACH RECEPTACLE DEVICE PLATE OR POINT OF CONNECTION DENOTING THE PANELBOARD NAME AND CIRCUIT NUMBER. INSTALL LABEL ON THE TOP OF EACH PLATE.

26 09 23 – LIGHTING CONTROL DEVICES

A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.

B. MATERIALS:

1. MANUFACTURERS: WATTSTOPPER, SENSOR SWITCH, HUBBELL OR EQUAL.
2. OCCUPANCY SENSOR WALL SWITCH: UL LISTED, DUAL TECHNOLOGY (PIR/ULTRASONIC OR MICROPHONICS), SELF-LEARNING, PROGRAMMABLE TIME SETTINGS, ADJUSTABLE SENSITIVITY, SUITABLE FOR INSTALLATION IN A SINGLE GANG BOX, LINE VOLTAGE OR LOW VOLTAGE, WHITE FINISH, 600W MINIMUM RATING, PROVIDE ONE OR TWO BUTTONS OR INTEGRAL DIMMER WHERE NOTED ON PLANS.
3. CEILING MOUNTED OCCUPANCY SENSOR: UL LISTED, 120/277V DUAL TECHNOLOGY (PIR/ULTRASONIC OR MICROPHONICS), SELF-LEARNING, PROGRAMMABLE TIME SETTINGS, ADJUSTABLE SENSITIVITY, LINE VOLTAGE (120/277V) OR LOW VOLTAGE (12-24VDC), WHITE FINISH, PROVIDE MINIMUM WATTAGE RATING OR ADDITIONAL POWER PACKS AS REQUIRED TO CONTROL THE LOADS INDICATED ON THE PLANS. PROVIDE ULTRASONIC OR MICROPHONIC ONLY IN RESTROOMS WITH PARTITION STALLS. PROVIDE WITH DUAL RELAYS WERE NOTED ON PLANS.
4. POWER PACKS: WHERE LOW VOLTAGE (12-24VDC) DEVICES ARE USED, PROVIDE POWER PACKS AS RECOMMENDED BY THE MANUFACTURER FOR THE LOADS SERVED.

C. INSTALLATION:

1. INSTALL WALL OCCUPANCY SENSOR SWITCHES 48 INCHES ABOVE FLOOR.
2. FIELD ADJUST OCCUPANCY SENSORS FOR PROPER OPERATION IN THE SPACE. PROVIDE MASKING ON INFRARED LENS TO RESTRICT FIELD OF VIEW IF NECESSARY TO PREVENT UNWANTED SWITCHING FROM ADJACENT SPACES SUCH AS HALLWAYS.
3. PROVIDE ALL PROGRAMMING AS REQUIRED TO CONNECT AND OPERATE ALL CONNECTED FIXTURES.
4. COORDINATE WITH OWNER FOR FINAL LIGHTING CONTROL SEQUENCES AND TIMER SETTINGS.
5. LOCATE POWER PACKS AND SIMILAR DEVICES IN CONCEALED, ACCESSIBLE AREAS.

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
JEREMY A. MAXIE
EE-113847
5/1/23
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:
RSA
Mechanical and Electrical Consulting Engineers
670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	FS
CHECKED BY:	JAM,PCC

REVISION	DESCRIPTION	DATE

ELECTRICAL SPECIFICATIONS

E002

1" ACTUAL

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

ELECTRICAL SPECIFICATIONS

26 24 16 – PANELBOARDS

A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.

B. MATERIAL:

1. MANUFACTURERS: SQUARE D, GE, EATON, OR EQUAL.
2. PROVIDE DEAD–FRONT CIRCUIT BREAKER PANELBOARDS WITH BUS SIZE, SHORT CIRCUIT RATING, NUMBER AND SIZE OF BRANCH CIRCUITS AS SHOWN ON THE DRAWINGS. BUSSING SHALL BE COPPER. CABINETS SHALL BE 6 INCHES DEEP BY 20 INCHES MINIMUM. PROVIDE WITH FLUSH OR SURFACE FRONTS, AS NOTED ON THE DRAWINGS, WITH CONCEALED TRIM CLAMPS, CONCEALED HINGE AND FLUSHLOCK. FINISH IN MANUFACTURER'S STANDARD GRAY ENAMEL. MOLDED CASE CIRCUIT BREAKERS SHALL BE BOLT–ON THERMAL MAGNETIC TRIP TYPE WITH COMMON TRIP HANDLE FOR ALL POLES. PROVIDE UL CLASS A GROUND FAULT INTERRUPTER CIRCUIT BREAKERS FOR GFCI CIRCUITS AS INDICATED ON THE DRAWINGS.
3. NEW BREAKERS IN EXISTING PANELS: NEMA AB 1; UL LISTED FOR USE IN THE PANEL, AMPERE RATING AND NUMBER OF POLES AS INDICATED ON PLANS. AIC RATING SHALL MATCH THE LOWEST RATED DEVICE IN THE PANEL.

C. INSTALLATION:

1. INSTALL PANELBOARDS PLUMB WITH TOP OF CABINET 6'–6" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED ON THE DRAWINGS.
2. PROVIDE TYPED CIRCUIT DIRECTORIES FOR EACH NEW PANELBOARD
3. STUB 5 EMPTY ONE INCH CONDUITS TO ACCESSIBLE LOCATION ABOVE CEILING OUT OF EACH RECESSED PANELBOARD.
4. ALL PANELBOARDS SHALL HAVE SIGNAGE FOR ARC HAZARD INSTALLED. THE MARKING SHALL BE LOCATED TO BE CLEARLY VISIBLE TO QUALIFIED PERSONNEL BEFORE EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE OF THE EQUIPMENT. AT A MINIMUM THE 3–LINE SIGNAGE SHALL STATE THE FOLLOWING:

   WARNING
   ARC FLASH AND SHOCK HAZARD
   APPROPRIATE PPE REQUIRED
5. INSTALL NEW BREAKER(S) IN EXISTING PANEL(S) AND TEST FOR PROPER OPERATION. UPDATE CIRCUIT DIRECTORY TO REFLECT ALL CHANGES.

26 27 26 – WIRING DEVICES

A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.

B. MATERIALS:

1. WALL SWITCHES: SWITCHES FOR LIGHTING CIRCUITS SHALL BE ANSI/NEMA WD6 AND FEDERAL SPECIFICATION FS W–S–896 AC GENERAL USE SNAP SWITCH WITH TOGGLE HANDLE, RATED 20 AMPERES AND 120–277 VOLTS AC. HANDLE: WHITE NYLON.
2. RECEPTACLES: CONVENIENCE AND STRAIGHT BLADE RECEPTACLES SHALL BE NEMA AND FEDERAL SPECIFICATION FS W–C–596, TYPE 5–20R, WHITE NYLON FACE. SPECIFIC USE RECEPTACLES SHALL BE NEMA WD1 OR WD5; AS REQUIRED TO MATCH LOAD SERVED, BLACK PHENOLIC FACE. GFCI RECEPTACLES SHALL BE 20A, DUPLEX CONVENIENCE RECEPTACLE WITH INTEGRAL CLASS 'A' GROUND FAULT CURRENT INTERRUPTER AND LOCKOUT FEATURE. TAMPERPROOF RECEPTACLES SHALL BE UL 489.
3. WALL DIMMERS FOR 0–10V LED CIRCUITS: UL 1472; ANSI/NEMA WD6; DECORA–STYLE, COMMERCIAL GRADE PRESET WALL DIMMER SWITCH, 0–10V CONTROL FOR LED DRIVERS WITH NO POWER PACK REQUIRED TO SWITCH LINE VOLTAGE LOAD (8 A, 120–277 V); ADJUSTABLE HIGH–END AND LOW–END TRIM. COLOR: WHITE. HANDLE: PADDLE SWITCH FOR ON/OFF OPERATION WITH SMALL, DISCRETE, CAPTIVE LINEAR SLIDE FOR DIMMER ADJUSTMENT. PROVIDE SINGLE POLE UNLESS OTHERWISE INDICATED ON PLANS. DIMMER SHALL BE FULLY COMPATIBLE WITH ALL LOADS CONNECTED FOR SMOOTH, FLICKER–FREE DIMMING OPERATION.
4. WALL PLATES: DECORATIVE COVER PLATES IN FINISHED AREAS SHALL BE 430 OR 302 STAINLESS STEEL. WEATHERPROOF COVER PLATES SHALL BE GASKETED STAINLESS STEEL WITH HINGED GASKETED DEVICE COVERS. DEVICE PLATES FOR WET LOCATION RECEPTACLES SHALL BE "IN USE" TYPE. PROVIDE 1/2 INCH RAISED, SQUARE, GALVANIZED OR CADMIUM PLATED, PRESSED STEEL COVER PLATE SUPPORTING DEVICES INDEPENDENT OF THE OUTLET BOX FOR ALL EXPOSED WORK.

C. INSTALLATION:

1. UNLESS OTHERWISE NOTED ON THE DRAWINGS, INSTALL RECEPTACLES 18 INCHES ABOVE FINISH FLOOR, 4 INCHES ABOVE COUNTERS AND BACKSPLASHES WITH GROUNDING POLE ON BOTTOM. UNLESS OTHERWISE NOTED DIMENSIONS ARE TO CENTERLINE OF OUTLET.
2. INSTALL WALL SWITCHES AND DIMMERS 48 INCHES ABOVE FLOOR, OFF POSITION DOWN.
3. INSTALL GALVANIZED STEEL PLATES ON OUTLET BOXES AND JUNCTION BOXES IN UNFINISHED AREAS, ABOVE ACCESSIBLE CEILINGS, AND ON SURFACE–MOUNTED OUTLETS.

26 29 13 – ENCLOSED CONTROLLERS

A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.

B. MATERIALS:

1. MANUFACTURERS: SQUARE D, GE, EATON, OR EQUAL
2. MANUAL AND FRACTIONAL MOTOR STARTERS: NEMA ICS 2, AC GENERAL PURPOSE CLASS A, MANUALLY OPERATED UNIT WITH NUMBER OF POLES AS REQUIRED BY THE LOAD SERVED, FULL–VOLTAGE CONTROLLER FOR FRACTIONAL HORSEPOWER INDUCTION MOTORS, WITH THERMAL OVERLOAD UNIT, RED PILOT LIGHT, AND TOGGLE OPERATOR.
3. MAGNETIC MOTOR STARTERS: NEMA ICS 2; AC GENERAL–PURPOSE CLASS A, FULL VOLTAGE STARTING, NON–REVERSING TYPE MAGNETIC CONTROLLER FOR INDUCTION MOTORS RATED IN HORSEPOWER. PROVIDE BI–METAL THERMAL OVERLOAD RELAY. PROVIDE 120V COIL OPERATING VOLTAGE AND 120V CONTROL POWER TRANSFORMER WITH VA CAPACITY AS REQUIRED BY THE LOAD SERVED IN EACH MOTOR STARTER. COMBINE MOTOR STARTERS IN COMMON ENCLOSURE WITH MOTOR CIRCUIT PROTECTOR THAT HAS INTEGRAL INSTANTANEOUS MAGNETIC TRIP IN EACH POLE. INCLUDE TWO FIELD CONVERTIBLE CONTACTS IN ADDITION TO SEAL–IN CONTACT, RED LED LIGHT, AND HAND/OFF/AUTO SELECTOR SWITCH IN FRONT COVER. INCLUDE A THREE PHASE POWER MONITOR IN EACH MAGNETIC STARTER CONNECTED TO SHUT DOWN THE MOTOR ON LOSS OF ANY PHASE, PHASE REVERSAL, OR LOW VOLTAGE ON ANY PHASE. POWER MONITOR SHALL AUTOMATICALLY RESET AND RESTART MOTOR WHEN PHASE AND VOLTAGE CONDITIONS RETURN TO NORMAL. PROVIDE OVERSIZE STARTER ENCLOSURES AS REQUIRED TO INSTALL POWER MONITOR.

C. INSTALLATION

1. SELECT AND INSTALL HEATER ELEMENTS IN MOTOR STARTERS TO MATCH INSTALLED MOTOR CHARACTERISTICS.
2. FIELD ADJUST THE TRIP SETTINGS OF ALL MOTOR STARTER MAGNETIC TRIP ONLY CIRCUIT BREAKERS TO APPROXIMATELY 11 TIMES MOTOR FULL LOAD CURRENT. DETERMINE FULL LOAD CURRENT FROM MOTOR NAMEPLATE FOLLOWING INSTALLATION.
3. AFTER FINAL CONNECTIONS ARE MADE, CHECK AND CORRECT THE ROTATION OF ALL MOTORS.
4. MOTOR STARTING EQUIPMENT SHALL BE LISTED FOR USE AND PROPERLY SIZED FOR OPERATION WITH THE MOTORS SPECIFIED BY MECHANICAL.

26 50 00 – LIGHTING FIXTURES

A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.

B. MATERIALS:

1. LUMINAIRES: PROVIDE AND INSTALL ALL LIGHTING EQUIPMENT OR APPROVED EQUAL AS SHOWN ON THE DRAWINGS AND DESCRIBED IN THE "FIXTURE SCHEDULE". PROVIDE LIGHTING EQUIPMENT COMPLETE, WIRED, ASSEMBLED, WITH PROPER FLANGES, MOUNTING SUPPORTS, HARDWARE, ETC. ALL LIGHTING EQUIPMENT INSTALLED IN LAY–IN TYPE CEILINGS SHALL BE PROVIDED WITH SAFETY CHAINS, CAPABLE OF SUPPORTING 200 POUNDS, SECURELY FASTENED TO THE LIGHT FIXTURE AND THE BUILDING STRUCTURE SO THAT NO PART OF THE FIXTURE WILL DROP BELOW A HEIGHT OF 7'–6" ABOVE THE FLOOR IN THE EVENT OF A CEILING SUSPENSION SYSTEM FAILURE.
2. LED DRIVERS: PROVIDE UL LISTED POWER SUPPLY AS RECOMMENDED BY THE LED FIXTURE MANUFACTURER FOR OPERATION OF THE SPECIFIED LED LAMPS. POWER SUPPLY SHALL BE INTEGRAL TO THE LUMINAIRE UNLESS OTHERWISE NOTED ON THE PLANS. POWER SUPPLY SHALL OPERATE AT THE SUPPLY VOLTAGE INDICATED ON THE PLANS AND SHALL BE LISTED FOR STARTING AND OPERATING THE LAMPS AT 75F AVERAGE INDOOR TEMPERATURE.
3. LED DIMMING DRIVERS: PROVIDE UL LISTED 0–10V DIMMING BALLAST AS RECOMMENDED BY THE LED FIXTURE MANUFACTURER FOR OPERATION OF THE SPECIFIED LED LAMPS, FULLY COMPATIBLE WITH THE DIMMING SYSTEM OR DIMMING SWITCH CONTROLLING THE FIXTURE. DRIVER SHALL BE INTEGRAL TO THE FIXTURE AND CAPABLE OF DIMMING THE LUMINAIRE TO 20% OUTPUT MINIMUM UNLESS OTHERWISE SCHEDULED ON THE PLANS. POWER SUPPLY SHALL BE DUAL VOLTAGE (120/277V) WHERE AVAILABLE AND OPERATE AT THE SUPPLY VOLTAGE INDICATED ON THE PLANS.
4. LED LAMPS: UNLESS OTHERWISE SCHEDULED ON THE PLANS, PROVIDE NOMINAL 4000 K, WITH MINIMUM 75CRI AND A MINIMUM L70 LAMP LIFE OF 50,000 HOURS.
5. LED EMERGENCY DRIVERS: UL LISTED, FACTORY INSTALLED, SELF–CONTAINED EMERGENCY POWER SUPPLY AS RECOMMENDED BY THE LUMINAIRE MANUFACTURER, WITH MINIMUM WATTAGE, VOLTAGE AND AMPERE RATINGS SUITABLE OF AUTOMATICALLY OPERATING THE SPECIFIED FIXTURE AT 90 MINUTES UNDER LOSS OF UTILITY POWER. 120/277V INPUT.
6. EMERGENCY INVERTERS: UL 924 COMPLIANT, FULL OUTPUT EMERGENCY LIGHTING INVERTER CAPABLE OF OPERATING THE LAMPS AT >90% LUMEN OUTPUT FOR 90 MINUTES WITH FIELD SELECTABLE 120 OR 277 VOLT INPUT AND OUTPUT, WITH PURE SINUSOIDAL WAVE OUTPUT SUITABLE FOR USE WITH LED LUMINAIRES, MAINTENANCE FREE LEAD CALCIUM BATTERIES, LOW VOLTAGE BATTERY DISCONNECT, TEST BUTTON, LED INDICATORS, WITH MINIMUM WATTAGE AS INDICATED ON PLANS.

C. INSTALLATION:

1. PENDANT AND TRACK LUMINARIES SHALL BE INSTALLED PLUMB AND LEVEL.
2. INSTALL RECESSED LUMINAIRES TO PERMIT REMOVAL FROM BELOW. USE PLASTER FRAMES IN HARD CEILINGS.
3. SUPPORT LUMINARIES IN SUSPENDED CEILINGS FROM STRUCTURE ABOVE USING A MINIMUM OF (4) ANCHORS IN ACCORDANCE WITH SECTION 26 05 29.
4. PROVIDE LUMINAIRE DISCONNECTING MEANS IN BALLAST/DRIVER CHANNEL OF EACH LIGHT FIXTURE. WHERE THE LUMINAIRE IS FED FROM A MULTI–WIRE BRANCH CIRCUIT, PROVIDE MULTI–POLE DISCONNECT TO SIMULTANEOUSLY BREAK ALL SUPPLY CONDUCTORS TO THE BALLAST, INCLUDING THE GROUNDED CONDUCTOR.
5. AIM ALL LUMINAIRES AND EMERGENCY LIGHTING UNITS THAT HAVE ADJUSTABLE LAMPS OR LENSES.
6. TEST OPERATION OF ALL EMERGENCY LIGHTS BY SIMULATING A POWER OUTAGE FOR 90 MINUTES. CONFIRM THAT ALL EMERGENCY LIGHTING IS OPERATIONAL AND MEETS THE REQUIREMENTS OF NEC 700.12(A). CORRECT ALL DEFICIENCIES PRIOR TO SUBSTANTIAL COMPLETION.

27 10 00 – STRUCTURED CABLING

A. SUMMARY: THIS SECTION INCLUDES REQUIREMENTS FOR THE DESIGN AND INSTALLATION OF A TELECOMMUNICATIONS CABLING SYSTEM INCLUDING COMMUNICATIONS CABLE, PATCH PANELS, TELECOMMUNICATIONS JACKS, RACEWAYS, ETC. AS REQUIRED FOR A COMPLETE AND FUNCTIONAL TELECOMMUNICATIONS CABLING SYSTEM. QUALITY ASSURANCE: ALL PRODUCTS SHALL BE OF ONE MANUFACTURER'S STRUCTURED CABLING SYSTEM. THE MANUFACTURER SHALL BE A COMPANY SPECIALIZING IN MANUFACTURING THE PRODUCTS SPECIFIED WITH A MINIMUM 5 YEARS DOCUMENTED EXPERIENCE. THE INSTALLER SHALL BE A COMPANY SPECIALIZING IN PERFORMING THIS TYPE OF WORK WITH A MINIMUM 3 YEARS DOCUMENTED EXPERIENCE AND MANUFACTURER'S CERTIFICATION TO INSTALL THE PRODUCT. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS: ANSI/TIA 568–B.1–3, ANSI/TIA 569_A, AND ANSI/TIA 607.

B. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.

C. MATERIALS:

1. UTP TELECOMMUNICATION CABLE: PLENUM–RATED CL2P, CATEGORY 6, 4 PAIR, 24 AWG SOLID COPPER CONDUCTOR TELECOMMUNICATIONS CABLE. SUPERIOR ESSEX "DATAGAIN" CMP OR APPROVED EQUAL.
2. UTP TELECOMMUNICATIONS JACK: RJ–45, CATEGORY6, T568A/B, 8P8C, SINGLE, WHITE FINISH, TELECOMMUNICATIONS JACK WITH FLUSH EXIT WITH SINGLE–GANG FACEPLATES WITH FINISH TO MATCH JACK. ORTRONICS "TRACJACK CLARITY 6" #OR–TJ600 OR APPROVED EQUAL.
3. UTP MODULAR PATCH PANEL: HIGH DENSITY, CATEGORY 6 MODULAR PATCH PANEL (24 OR 48–PORT) WITH HORIZONTAL CABLE MANAGEMENT PANELS (ONE ABOVE AND BELOW EACH PATCH PANEL). ORTRONICS CLARITY 6 SERIES OR EQUAL.
4. PATCH CABLES – ALL PATCH CABLES SHALL BE FACTORY MANUFACTURED TO MATCH THE APPLICABLE CABLE/CONNECTIVITY SOLUTION (I.E. THE BERK–TEK/ORTRONICS SYSTEM SHALL USE ORTRONICS MANUFACTURED PATCH CORDS, ETC.). PROVIDE 7–FOOT CATEGORY 6 PATCH CABLES WITH WHITE OR IVORY JACKET FOR CROSS–CONNECT BETWEEN THE TELEPHONE PATCH PANEL AND THE TELECOMMUNICATIONS PATCH PANELS. PROVIDE ONE PATCH CABLE FOR EACH PORT IN ALL THE TELEPHONE PATCH PANELS. PROVIDE 7–FOOT CATEGORY 6 PATCH CABLES WITH BLUE JACKET FOR INSTALLATION BETWEEN NETWORK EQUIPMENT IN THE RACK AND DEDICATED DATA PORTS IN THE TELECOMMUNICATIONS PATCH PANELS. PROVIDE ONE PATCH CABLE FOR EACH PORT IN ALL THE TELECOMMUNICATIONS PATCH PANELS. PROVIDE 9–FOOT LONG CATEGORY 6 PATCH CABLE WITH WHITE OR IVORY JACKET FOR INSTALLATION BETWEEN THE DATA JACKS IN EACH TELECOMMUNICATIONS OUTLET AND THE OWNER–PROVIDED COMPUTERS. PROVIDE ONE PATCH CABLE FOR EACH DATA JACK IN ALL THE TELECOMMUNICATIONS OUTLETS, PLUS 25% ADDITIONAL CABLES FOR FUTURE EXPANSION OR REPLACEMENT CABLES.
5. CABLE SUPPORT: ALL CABLES NOT INSTALLED IN CONDUIT SHALL BE SUPPORTED USING J–HOOKS, CADDY CABLECAT SERIES OR APPROVED EQUAL, WITH A MINIMUM J–HOOK SIZE EQUIVALENT TO CADDY #CAT32 OR APPROVED EQUAL. SIZE ALL J–HOOKS TO SUPPORT THE QUANTITY OF CABLES INSTALLED, PLUS A MINIMUM OF 25% SPARE CAPACITY.
6. TELECOMMUNICATIONS BACKBOARD: BACKBOARD SHALL BE .75" THICK ACX PLYWOOD, 4'X8' OR AS INDICATED ON THE DRAWINGS.

D. INSTALLATION:

1. UNLESS OTHERWISE NOTED, ALL CABLES SHALL BE INSTALLED IN CONDUIT FROM THE TELECOMMUNICATIONS JACK TO THE SPACE ABOVE THE ACCESSIBLE CEILING AND IN CONDUIT THROUGH INACCESSIBLE AREAS. SUPPORT CABLES INSTALLED IN CEILING SPACES WITH J–HOOKS ANCHORED TO THE ROOF STRUCTURE. MAXIMUM SPACING BETWEEN SUPPORTS SHALL BE 4 FEET, MAXIMUM NUMBER OF CABLES ON EACH SUPPORT SHALL BE 25. CABLES SHALL BE ROUTED A MINIMUM OF 5 INCHES FROM POWER LINES 2 KVA OR LESS, 12 INCHES FROM LIGHT FIXTURES, 36 INCHES FROM POWER LINES 5 KVA OR GREATER, 40 INCHES FROM TRANSFORMERS AND MOTORS. STORE A MAXIMUM OF 12 INCHES OF SLACK CABLE AT EACH OUTLET AND A MINIMUM OF 10 FEET OF SLACK CABLE AT EACH RACK. CABLE JACKET SHALL BE MAINTAINED TO WITHIN .5 INCH OF JACK AND TWISTS SHALL BE MAINTAINED TO WITHIN .25 INCH OF TERMINATION POINT. COMPLY WITH CABLE MANUFACTURERS MAXIMUM PULLING TENSION AND MINIMUM BEND RADIUS REQUIREMENTS. DO NOT STRETCH, STRESS, TIGHTLY COIL, BEND OR CRIMP CABLES. CABLES SHALL BE ROUTED SO THAT CABLE LENGTHS DO NOT EXCEED 90 METERS PER ANSI/TIA REQUIREMENTS. PERFORM END–TO–END TESTS OF EACH CABLE AFTER INSTALLATION AND TERMINATION TO SHOW COMPLIANCE WITH ANSI/TIA REQUIREMENTS.
2. EACH UTP CABLE SHALL BE TESTED FOR COMPLIANCE WITH ANSI/TIA 568–B.1 AND ANSI/TIA 568B.2 CATEGORY 6 STANDARDS AFTER INSTALLATION USING A FLUKE #DSX OR APPROVED EQUAL TESTER. PROVIDE TEST RESULTS FOR ALL TESTS NOTED ABOVE IN THE FORM OF PRINTOUTS FROM THE TEST EQUIPMENT AND PROVIDE AN ELECTRONIC COPY OF THE TEST DATA FOR EACH CABLE. WHERE ANY PORTION OF THE SYSTEM DOES NOT MEET THE SPECIFICATIONS, THE CONTRACTOR SHALL CORRECT THE DEVIATION AND REPEAT ANY APPLICABLE TESTING AT NO ADDITIONAL COST TO THE OWNER. ACCEPTANCE OF THE TELECOMMUNICATIONS SYSTEM SHALL BE BASED ON THE RESULTS OF THE ABOVE TESTS, FUNCTIONALITY, AND THE RECEIPT OF DOCUMENTATION.

28 10 00 – ACCESS CONTROL

A. SUMMARY: THIS SECTION INCLUDES A PROXIMITY CARD ACCESS CONTROL SYSTEM.

B. SUBMITTALS: SUBMIT PRODUCT DATA AND DETAILED SHOP DRAWINGS FOR APPROVAL SHOWING LAYOUT OF ALL CARD READERS, DOOR CONTACT SWITCHES, POWER SUPPLIES, HEADEND EQUIPMENT, CONDUIT/WIRING PATHWAYS, ETC. INCLUDE RISER DIAGRAMS AND WIRING DIAGRAMS INCLUDING A DOOR CONNECTION DIAGRAM FOR EACH UNIQUE TYPE OF DOOR.

C. QUALIFICATIONS: THE ACCESS CONTROL SYSTEM SHALL BE ASSEMBLED AND INSTALLED BY A SECURITY SYSTEMS INTEGRATOR. THE SECURITY SYSTEMS INTEGRATOR SHALL HAVE A MINIMUM OF THREE YEARS DOCUMENTED EXPERIENCE ASSEMBLING AND INSTALLING THESE TYPES OF SYSTEMS.

D. MATERIALS:

1. PROVIDE COMPLETE COMPLETE CARD ACCESS SYSTEMS CONSISTING OF CARD READERS AT DOORS SHOWN ON PLANS, DOOR CONTACT SWITCHES, POWER SUPPLIES, AND HEAD END EQUIPMENT. INCLUDE ALL ACCESSORIES, CABLES AND EQUIPMENT CONNECTIONS FOR A COMPLETE AND FUNCTIONAL SYSTEM.
2. CARD READERS: UL294, PROXIMITY CARD READER WITH 2.4GHZ, 13.56 MHZ AND 125 KHZ CREDENTIAL COMPATIBILITY, 1.6"–4" READ RANGE, 12VDC, EAL 5+ CERTTIFIED SECURITY ELEMENT HARDWARE, –31F TO 150F OPERATING TEMPERATURE, BLACK HOURSING, AND LED INDICATOR LIGHT. PROVIDE WITH SINGLE GANG MOUNTING UNLESS OTHERWISE NOTED. PROVIDE MULLION MOUNTING WHERE INDICATED ON PLANS. HID #SIGNO SERIES OR EQUAL. PROVIDE OWNER WITH 50 BLANK COMPATIBLE CREDENTIALS.
3. DOOR CONTROLLERS: INTELLIGENT SYSTEM CONTROLLER – LENEL.
4. INTERFACE MODULE: READER MODULE – LENEL.
5. NETWORK POWER DISTRIBUTION MODULE: ALTRONICS OR EQUAL.
6. DOOR CONTACTS: RECESSED STEEL DOOR CONTACT WITH WIRE LEADS, 1" DIAMETER, DPDT, WHITE, 1/2 INCH GAP SIZE. UTC #1076D–N OR EQUAL.
7. SOFTWARE: EXTENSION OF OWNER'S LENEL ONGAURD.
8. WIRE AND CABLE: PLENUM RATED CABLE AS RECOMMENDED BY THE MANUFACTURER.

E. INSTALLATION:

1. INSTALL AND TEST IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
2. INSTALL WIRING IN RACEWAY (3/4 INCH MINIMUM SIZE) IN CONCEALED OR EXPOSED AREAS. WIRING ABOVE ACCESSIBLE CEILINGS MAY BE INSTALLED IN J–HOOK PATHWAYS ON 48" CENTERS MAX.
3. WIRING SPLICES ARE TO BE AVOIDED TO THE EXTENT POSSIBLE, AND IF NEEDED THEY MUST BE MADE ONLY IN JUNCTION BOXES AND SHALL BE CRIMP CONNECTED. WIRE NUT–TYPE CONNECTIONS ARE NOT ACCEPTABLE.
4. LABELING: PROVIDE RIVETED NAMEPLATE ON ALL HEADEND EQUIPMENT. PROVIDE LABEL ON EACH SECURITY FIELD DEVICE, DENOTING DEVICE ADDRESS. INSTALL WIRE MARKER FOR EACH CABLE AT CABINETS, PULL BOXES, JUNCTION BOXES, AND EACH LOAD CONNECTION. WIRE ID NUMBER TO MATCH AT EACH END.
5. INSTALL 1–FOOT CABLE SERVICE LOOP FOR ALL SECURITY SYSTEM CABLE AT THE LAST J–HOOK NEAREST THE RACEWAY DOWN TO THE DEVICE, OR AS NEAR AS POSSIBLE TO THE DEVICE WHEN J–HOOKS ARE NOT INSTALLED.
6. DOOR CONTACTS: SECURE THE MAGNET SIDE OF RECESSED DOOR CONTACTS IN THE DOOR, USING METAL MOUNTING BRACKETS AS REQUIRED. MAGNET SHALL NOT BE MOUNTED ON A WOOD SPACER BLOCK TO MAKE IT FLUSH WITH THE TOP OF THE DOOR
7. DEMONSTRATION: DEMONSTRATE PROPER OPERATION OF ALL SECURITY FUNCTIONS, SCHEDULES AND DOOR OPERATION.
8. TRAINING: FURNISH 4 HOURS OF INSTRUCTION EACH FOR TWO PERSONS, TO BE CONDUCTED AT PROJECT SITE WITH MANUFACTURER'S REPRESENTATIVE.

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
JEREMY A. MAXIE
EE–113847
5/1/23
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

RSA
Mechanical and Electrical Consulting Engineers
670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	FS
CHECKED BY:	JAM,PCC

REVISION	DESCRIPTION	DATE

ELECTRICAL SPECIFICATIONS

E003

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL

ELECTRICAL SPECIFICATIONS

28 23 00 – VIDEO SURVEILLANCE

A. SUMMARY: THIS SECTION INCLUDES A NEW VIDEO SURVEILLANCE SYSTEM IN THE FACILITY COMPLETE WITH INTERIOR IP CAMERAS, NETWORK VIDEO RECORDER (NVR) SERVER, CLIENT WORKSTATION & MONITOR, DATA EQUIPMENT STORAGE RACK, AND VIDEO MANAGEMENT SYSTEM SOFTWARE. ALL CAMERAS SHALL BE CONNECTED TO THE NVR SERVER AND SURVEILLANCE SHALL BE ACCESSIBLE VIA NETWORK CONNECTION FROM REMOTE LOCATIONS.

B. SUBMITTALS: SUBMIT PRODUCT DATA AND DETAILED SHOP DRAWINGS FOR APPROVAL.

C. MATERIALS:

1. VMS SOFTWARE: EXISTING COURT SYSTEM ENTERPRISE LICENSE OF GENETEC 'OMNICAST' SHALL BE USED. PROVIDE SITE, SERVER, AND CAMERA LICENSES AS REQUIRED.
2. CLIENT WORKSTATION: SHALL BE OWNER–FURNISHED, CONTRACTOR–INSTALLED.
3. NETWORK VIDEO RECORDER (NVR) SERVER: SHALL BE OWNER–FURNISHED, CONTRACTOR–INSTALLED.
4. TYPE 'A': OUTDOOR IP MULTI–SENSOR CAMERA: AXIS #P3719–PLE OR APPROVED EQUAL MEGAPIXEL, IP COLOR CAMERA.
5. TYPE 'B': INDOOR IP MULTI–SENSOR CAMERA: AXIS #P3727–PLE OR APPROVED EQUAL MEGAPIXEL, IP CAMERA.
6. TYPE 'C': INDOOR IP FIXED DOME CAMERA: AXIS #P3265–LV OR APPROVED EQUAL MEGAPIXEL, IP COLOR CAMERA.
7. GENERAL HARDWARE AND MOUNTS: AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
8. NETWORK SWITCH: SHALL BE OWNER–FURNISHED, CONTRACTOR–INSTALLED.
9. VIDEO FIELD CABLE: PER SECTION 27 10 00 EXCEPT WITH GREEN JACKET.
10. UTP COMPONENTS: PER SECTION 27 10 00.
11. UNINTERRUPTED POWER SUPPLY (UPS): APC SMART–UPS #SMT2200RM2UC OR APPROVED EQUAL RACK–MOUNTED 2200VA, 120V UPS.

D. INSTALLATION:

1. INSTALL AND TEST WIRING PER SECTION 27 10 00.
2. NO WIRING OTHER THAN THAT DIRECTLY ASSOCIATED WITH THE VIDEO SURVEILLANCE SYSTEM SHALL BE PERMITTED IN VIDEO SURVEILLANCE SYSTEM CONDUITS AND PATHWAYS.
3. COORDINATE ALL FINAL CAMERA LOCATIONS WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH–IN AND AVOID CONFLICTS WITH EXISTING EQUIPMENT AND OBJECTS THAT MAY OBSTRUCT THE FIELD OF VIEW OR, IN THE CASE OF LIGHT FIXTURES, MAY AFFECT THE CAMERA PERFORMANCE AND QUALITY OF THE VIDEO IMAGE.
4. COORDINATE ALL CAMERA, OUTLET BOX, AND CONDUIT LOCATIONS TO AVOID CONFLICTS WITH MECHANICAL PIPING AND DUCTWORK, STRUCTURAL MEMBERS, AND OTHER MATERIALS ABOVE THE ACCESSIBLE CEILINGS AND ALONG THE ENTIRE CABLE PATHWAY.
5. ANY CAMERA THAT IS LOCATED SO THAT CAMERA PERFORMANCE OR FIELD OF VIEW IS ADVERSELY AFFECTED SHALL BE RELOCATED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
6. LABEL ALL VIDEO SURVEILLANCE SYSTEM JUNCTION BOXES. FOR JUNCTION BOXES ABOVE CEILINGS, MARK THE BOX COVER WITH "IP VIDEO" USING PERMANENT BLACK MARKER. FOR JUNCTION BOXES IN FINISHED AREAS, MARK THE INSIDE OF THE COVER.
7. FIXED CAMERAS: THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO OBTAIN THE DESIRED FIELD OF VIEW FOR EACH NEW CAMERA. THIS INCLUDES, BUT IS NOT LIMITED TO, ADJUSTING CAMERA AIMING POINT, WHITE BALANCE, BACKLIGHT COMPENSATION, AGC, IRIS CONTROL, VIEWING ANGLE, AND ADJUSTING VARI–FOCAL LENSES.
8. VMS SOFTWARE: THE CONTRACTOR SHALL COMPLETELY CONFIGURE EACH VIDEO INPUT FOR CAMERA TITLE, FRAME RATE, RESOLUTION, COMPRESSION, MOTION DETECTION, ALARMS, PRE/POST EVENT RECORDING, MACROS, AND ALL OTHER FEATURES OF THE SOFTWARE. THE SOFTWARE SHALL BE INITIALLY CONFIGURED FOR A COMPLETE AND OPERABLE SYSTEM TO THE OWNER'S SATISFACTION.
9. INSTALL AND TEST IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
10. TRAINING: FURNISH 6 HOURS OF INSTRUCTION EACH FOR TWO PERSONS, TO BE CONDUCTED AT PROJECT SITE WITH MANUFACTURER'S REPRESENTATIVE.

28 46 00 – FIRE DETECTION AND ALARM

A. SUMMARY: THIS SECTION INCLUDES CONTRACTOR DESIGNED AND INSTALLED MODIFICATION OF THE EXISTING FIRE ALARM AND SMOKE DETECTION SYSTEM. THIS IS A PERFORMANCE TYPE SPECIFICATION DESCRIBING THE MINIMUM ACCEPTABLE FIRE ALARM SYSTEM. THE CONTRACTOR SHALL DESIGN AND INSTALL THE FIRE ALARM AND SMOKE DETECTION SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 72 AND ADAG. THE FIRE ALARM DEVICES ON THE DRAWINGS ARE SHOWN IN SUGGESTED LOCATIONS. THE FINAL LOCATIONS OF ALL DEVICES SHALL BE SOLELY DETERMINED BY THE CONTRACTOR AND SHALL BE IN ACCORDANCE WITH NFPA 72 AND ADAG. ALL NEW DEVICES ADDED TO THE EXISTING FIRE ALARM CONTROL PANEL SHALL BE UL LISTED FOR OPERATION ON THE EXISTING PANEL.

B. SUBMITTALS: SUBMIT PRODUCT DATA AND SHOP DRAWINGS FOR APPROVAL.

C. MATERIALS:

1. MANUFACTURER: MATCH EXISTING TYPE
2. CONTROL PANEL: UPGRADE EXISTING CONTROL PANEL AND BATTERIES AS REQUIRED TO ACCOMMODATE THE NEW DEVICES ADDED. PROVIDE ALL PROGRAMMING AND TESTING AS REQUIRED. EXISTING FIRE ALARM CONTROL PANEL IS A SYSTEM 3 CERBERUS.
3. MANUAL PULL STATION: FLUSH MOUNTED, SINGLE ACTION MANUAL STATION, WITH BREAKGLASS ROD.
4. CEILING MOUNTED SMOKE DETECTOR: NFPA 72, PHOTOELECTRIC TYPE WITH ADJUSTABLE SENSITIVITY, PLUG–IN BASE, AND VISUAL INDICATION OF DETECTOR ACTUATION, SUITABLE FOR MOUNTING ON 4–INCH OUTLET BOX.
5. DUCT MOUNTED SMOKE DETECTOR: NFPA 72, PHOTOELECTRIC TYPE WITH AUXILIARY SPDT RELAY CONTACT, DUCT SAMPLING TUBES EXTENDING THE WIDTH OF DUCT, AND VISUAL INDICATION OF DETECTOR ACTIVATION, IN DUCT–MOUNTED HOUSING. PROVIDE WITH REMOTE VISUAL INDICATOR, TEST, AND RESET STATION.
6. HEAT DETECTOR: COMBINATION RATE–OF–RISE AND FIXED TEMPERATURE, RATED 135°F, AND TEMPERATURE RATE OF RISE OF 15°F.
7. FIRE ALARM STROBE LIGHTS: NFPA 72 COMPLIANT, FLUSH WALL OR CEILING MOUNTED, SELF–SYNCHRONIZING, XENON, FIRE ALARM STROBE LAMP AND FLASHER WITH FLASHRATE OF ONE FLASH PER SECOND, COMPLYING WITH THE REQUIREMENTS OF ADAG. PROVIDE RED LETTERED FIRE ON CLEAR LENS. THE STROBE SHALL BE FIELD–SELECTABLE TO PROVIDE 15, 30 75, OR 110 CANDELA SYNCHRONIZED FLASH OUTPUTS.
8. FIRE ALARM HORN: ANSI S3.41 AND NFPA 72 COMPLIANT, FLUSH MOUNTED FIRE ALARM HORN WITH ADJUSTABLE SOUND OUTPUT LEVEL. SOUND RATING: 87 DBA (REVERBERANT) AT 10 FEET ON THE "HIGH" SETTING AND 82 DBA (REVERBERANT) AT 10 FEET ON THE "LOW" SETTING. PROVIDE MINIMUM SOUND PRESSURE LEVEL OF 15 DBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN EVERY OCCUPIED SPACE WITHIN THE BUILDING. PROVIDE INTEGRAL FIRE ALARM STROBE LIGHT AS SPECIFIED ABOVE WHERE INDICATED ON THE DRAWINGS.
9. FIRE ALARM SYSTEM POWER BRANCH CIRCUITS: BUILDING WIRE AS SPECIFIED IN SECTION 26 05 19.
10. NOTIFICATION APPLIANCE CIRCUITS: MINIMUM #12 AWG COPPER BUILDING WIRE, AS SPECIFIED IN SECTION 26 05 19.
11. INITIATING AND SIGNALING LINE CIRCUITS: TWISTED, SHIELDED OR UNSHIELDED FIRE ALARM CABLE AS RECOMMENDED BY THE FIRE ALARM SYSTEM MANUFACTURER. MINIMUM SIZE #16 AWG.

D. INSTALLATION:

1. THE COMPLETE FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
2. INSTALL MANUAL PULL STATIONS WITH THE OPERATING HANDLE 48 INCHES ABOVE THE FLOOR. INSTALL AUDIBLE AND VISUAL SIGNAL DEVICES 80 INCHES ABOVE THE FLOOR OR 6" BELOW THE CEILING, WHICHEVER IS LOWER.
3. MAKE ALL CONNECTIONS TO DOOR RELEASE DEVICES AND DUCT SMOKE DETECTORS.
4. INSTALL ALL SMOKE DETECTORS A MINIMUM OF THREE FEET FROM ANY AIR SUPPLY, RETURN, OR EXHAUST DIFFUSER AND A MINIMUM OF ONE FOOT FROM ANY LIGHT FIXTURE.
5. DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEAN UP OF ALL TRADES IS COMPLETE AND FINAL. PROTECTIVE DUST COVERS SHALL BE INSTALLED ON ALL DETECTORS PRIOR TO FINAL CLEAN–UP.
6. FIELD LOCATE REMOTE VISUAL INDICATORS AND TEST/RESET STATIONS FOR DUCT DETECTORS IN AN ACCESSIBLE LOCATION.
7. TEST IN ACCORDANCE WITH NFPA 72 AND LOCAL FIRE DEPARTMENT REQUIREMENTS. PROVIDE A COMPLETED NFPA 72 INSPECTION AND TESTING FORM FOR INCLUSION IN THE OPERATION AND MAINTENANCE MANUAL AT THE COMPLETION OF TESTING AND COMMISSIONING THE FIRE ALARM SYSTEM.
8. INSTALL FIRE ALARM WIRING IN A DEDICATED RACEWAY OR CABLING SYSTEM PER SECTION 26 05 33 AND 26 05 19.

BETTISWORTH NORTH

STATE OF ALASKA
JEREMY A. MAXIE
EE-113847
6/14/23
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

CONSULTANT:

RSA
Mechanical and Electrical Consulting Engineers
670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	FS
CHECKED BY:	JAM,PCC

REVISION	DESCRIPTION	DATE

ELECTRICAL SPECIFICATIONS

E004

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL

ELECTRICAL LOAD CALCULATION

EXISTING SERVICE SIZE:			**800 A, 208 V, 3 PH**
PEAK KW DEMAND - (MARCH, 2020):			46.4 kW
ASSUMED POWER FACTOR:			0.85 PF
EXISTING PEAK DEMAND (IN KVA):			54.6 KVA
125% OF PEAK LOAD (NEC 220.87)			68.2 KVA
EXISTING PEAK DEMAND (IN AMPS):			**189 A**
EXISTING SPARE CAPACITY:			611 A
EXISTING LOADS REMOVED (IN KVA):			
RECEPTACLES	12.5 KVA		
100% OF FIRST 10KVA	10.0 KVA		
50% OF REMAINING	1.2 KVA		
LIGHTING	4.3 KVA		
ADDITIONAL 25% FOR CONTINUOUS	1.1 KVA		
* MAU-1	0.0 KVA		
SUBTOTAL:	16.6 KVA		
TOTAL LOADS REMOVED:			-16.6 KVA
TOTAL LOADS REMOVED (IN AMPS):			**-46 A**
NEW LOADS ADDED (IN KVA):			
RECEPTACLES	17.7 KVA		
100% OF FIRST 10KVA	10.0 KVA		
50% OF REMAINING	3.9 KVA		
LIGHTING	3.6 KVA		
ADDITIONAL 25% FOR CONTINUOUS	0.9 KVA		
AHU-1	2.8 KVA		
ADDITIONAL 25% FOR LARGE MOTOR	0.7 KVA		
SUBTOTAL:	21.9 KVA		
TOTAL LOADS ADDED:			21.9 KVA
TOTAL LOADS ADDED (IN AMPS):			**61 A**
NET LOAD CHANGE:			5.3 KVA
NET LOAD CHANGE (IN AMPS):			15 A
NEW TOTAL NEC DEMAND LOAD:			73.5 KVA
NEW TOTAL NEC DEMAND LOAD:			**204 A**
SPARE CAPACITY:			596 A

RESULT: THE EXISTING SERVICE HAS ADEQUATE CAPACITY FOR THE ADDITIONAL LOADS ADDED.

*UNIT NOT IN USE

EXISTING PANEL 'A'		**200 A, 208 V, 3 PH**
EXISTING LOADS REMOVED (IN KVA)		
LIGHTING	0.8 KVA	
ADDITIONAL 25% FOR CONTINUOUS	0.2 KVA	
RECEPTACLES	0.5 KVA	
SUBTOTAL:	1.5 KVA	
TOTAL LOADS REMOVED:		-1.5 KVA
TOTAL LOADS REMOVED (IN AMPS):		**-4 A**
NEW LOADS ADDED (IN KVA)		
LIGHTING	0.7 KVA	
ADDITIONAL 25% FOR CONTINUOUS	0.2 KVA	
RECEPTACLES	0.5 KVA	
SUBTOTAL:	1.4 KVA	
TOTAL LOADS ADDED:		1.4 KVA
TOTAL LOADS ADDED (IN AMPS):		**4 A**
NET LOAD CHANGE:		-0.1 KVA
NET LOAD CHANGE (IN AMPS):		**0 A**

RESULT: THE NET LOAD ON THE PANEL HAS DECREASED

EXISTING PANEL 'C'		**200 A, 208 V, 3 PH**
EXISTING LOADS REMOVED (IN KVA)		
LIGHTING	3.91 KVA	
ADDITIONAL 25% FOR CONTINUOUS	1.0 KVA	
RECEPTACLES	1.98 KVA	
SUBTOTAL:	6.87 KVA	
TOTAL LOADS REMOVED:		-6.9 KVA
TOTAL LOADS REMOVED (IN AMPS):		**-19 A**
NEW LOADS ADDED (IN KVA)		
LIGHTING	2.04 KVA	
ADDITIONAL 25% FOR CONTINUOUS	0.5 KVA	
RECEPTACLES	1.98 KVA	
SUBTOTAL:	4.53 KVA	
TOTAL LOADS ADDED:		4.53 KVA
TOTAL LOADS ADDED (IN AMPS):		**13 A**
NET LOAD CHANGE:		-2.34 KVA
NET LOAD CHANGE (IN AMPS):		**-6 A**
NEW TOTAL NEC DEMAND LOAD:		-2.3 KVA
NEW TOTAL NEC DEMAND LOAD (IN AMPS):		**-6 A**

RESULT: THE NET LOAD ON THE PANEL HAS DECREASED

EXISTING PANEL 'E'		**400 A, 208 V, 3 PH**
EXISTING LOADS REMOVED (IN KVA)		
LIGHTING	0.9 KVA	
ADDITIONAL 25% FOR CONTINUOUS	0.2 KVA	
UH-3,4,5	0.6 KVA	
SUBTOTAL:	1.7 KVA	
TOTAL LOADS REMOVED:		-1.7 KVA
TOTAL LOADS REMOVED (IN AMPS):		**-5 A**
NEW LOADS ADDED (IN KVA)		
LIGHTING	0.1 KVA	
ADDITIONAL 25% FOR CONTINUOUS	0.0 KVA	
EF-1,2	0.2 KVA	
SUBTOTAL:	0.3 KVA	
TOTAL LOADS ADDED:		0.3 KVA
TOTAL LOADS ADDED (IN AMPS):		**1 A**
NET LOAD CHANGE:		-1.4 KVA
NET LOAD CHANGE (IN AMPS):		**-4 A**

RESULT: THE NET LOAD ON THE PANEL HAS DECREASED

EXISTING PANEL 'F'		**200 A, 208 V, 3 PH**
EXISTING LOADS REMOVED (IN KVA)		
RECEPTACLES	9.7 KVA	
SUBTOTAL:	9.7 KVA	
TOTAL LOADS REMOVED:		-9.7 KVA
TOTAL LOADS REMOVED (IN AMPS):		**-27 A**
NEW LOADS ADDED (IN KVA)		
RECEPTACLES	0.4 KVA	
SUBTOTAL:	0.4 KVA	
TOTAL LOADS ADDED:		0.4 KVA
TOTAL LOADS ADDED (IN AMPS):		**1 A**
NET LOAD CHANGE:		-9.4 KVA
NET LOAD CHANGE (IN AMPS):		**-26 A**

RESULT: THE NET LOAD ON THE PANEL HAS DECREASED

BETTISWORTH NORTH

STATE OF ALASKA
JEREMY A. MAXIE
EE-113847
5/1/23
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

CONSULTANT:
RSA
Mechanical and Electrical Consulting Engineers
670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	FS
CHECKED BY:	JAM,PCC

REVISION	DESCRIPTION	DATE

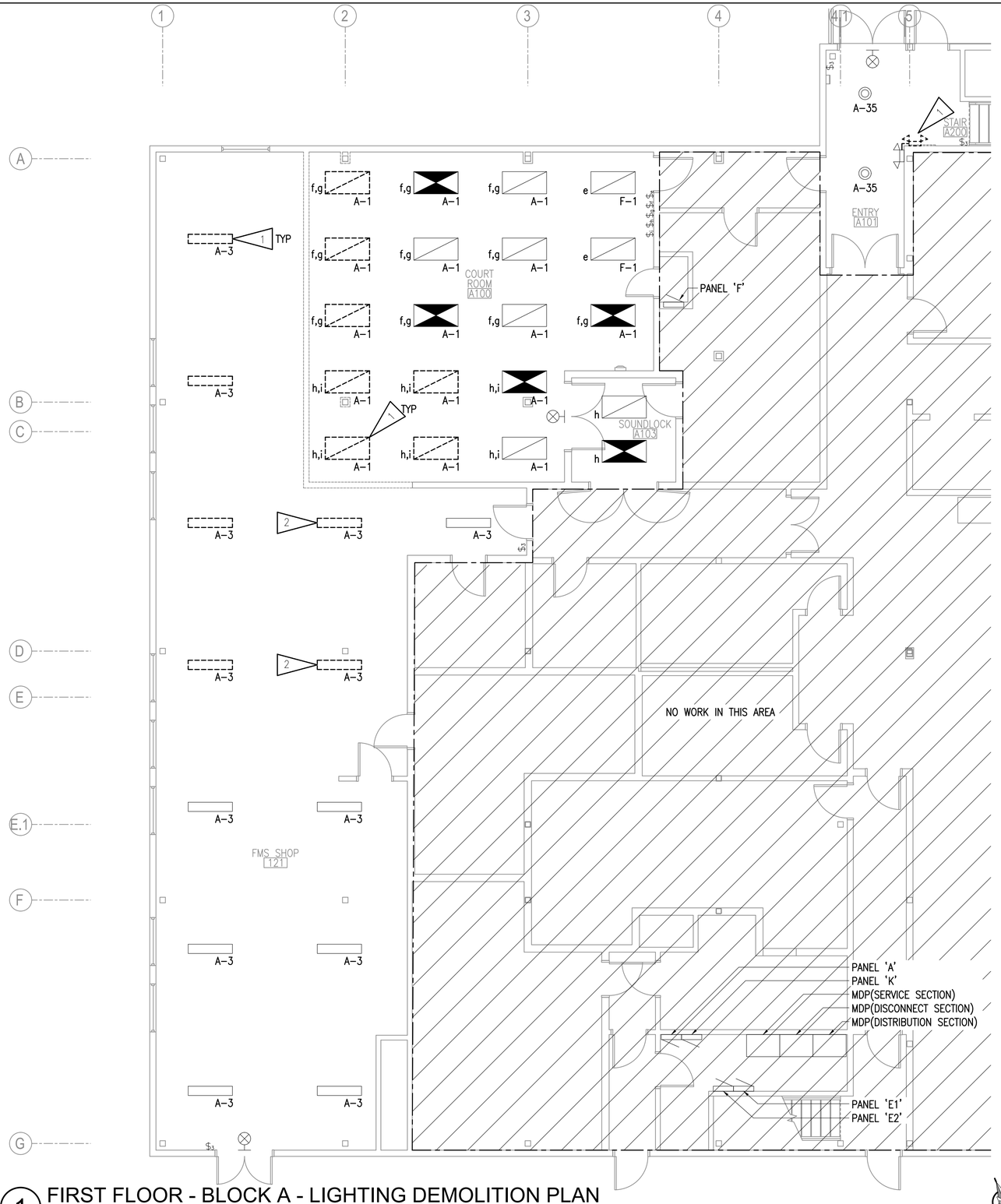
LOAD CALCULATIONS

E005

BETTISWORTH NORTH ARCHITECTS & PLANNERS

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL



1 FIRST FLOOR - BLOCK A - LIGHTING DEMOLITION PLAN

3/16" = 1'-0"

GENERAL NOTES:

A. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM RECORD DRAWINGS AND A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.

B. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE OWNER. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.

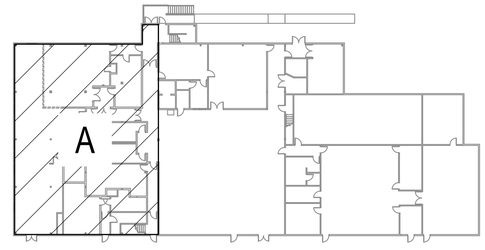
C. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.

D. UNLESS OTHERWISE NOTED, DEMOLISH ALL FIXTURES AS SHOWN. SALVAGE EXISTING CIRCUITS FOR RECONNECTION TO NEW FIXTURES IN NEW LOCATIONS AS SHOWN ON E201.

SHEET NOTES:

1. DEMOLISH FIXTURE, CONDUIT, AND CONDUCTORS BACK TO NEXT DEVICE TO REMAIN. EXTEND EXISTING CIRCUIT AS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY FOR EXISTING TO REMAIN FIXTURES.

2. SALVAGE FIXTURE FOR RELOCATION. EXTEND EXISTING CIRCUIT TO NEW LOCATION. SEE E201 FOR NEW LOCATION.



KEY PLAN

NO SCALE

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
JEREMY A. MAXIE
EE-113847
5/4/23
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

RSA
Mechanical and Electrical Consulting Engineers
670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	FS
CHECKED BY:	JAM,PCC

REVISION	DESCRIPTION	DATE

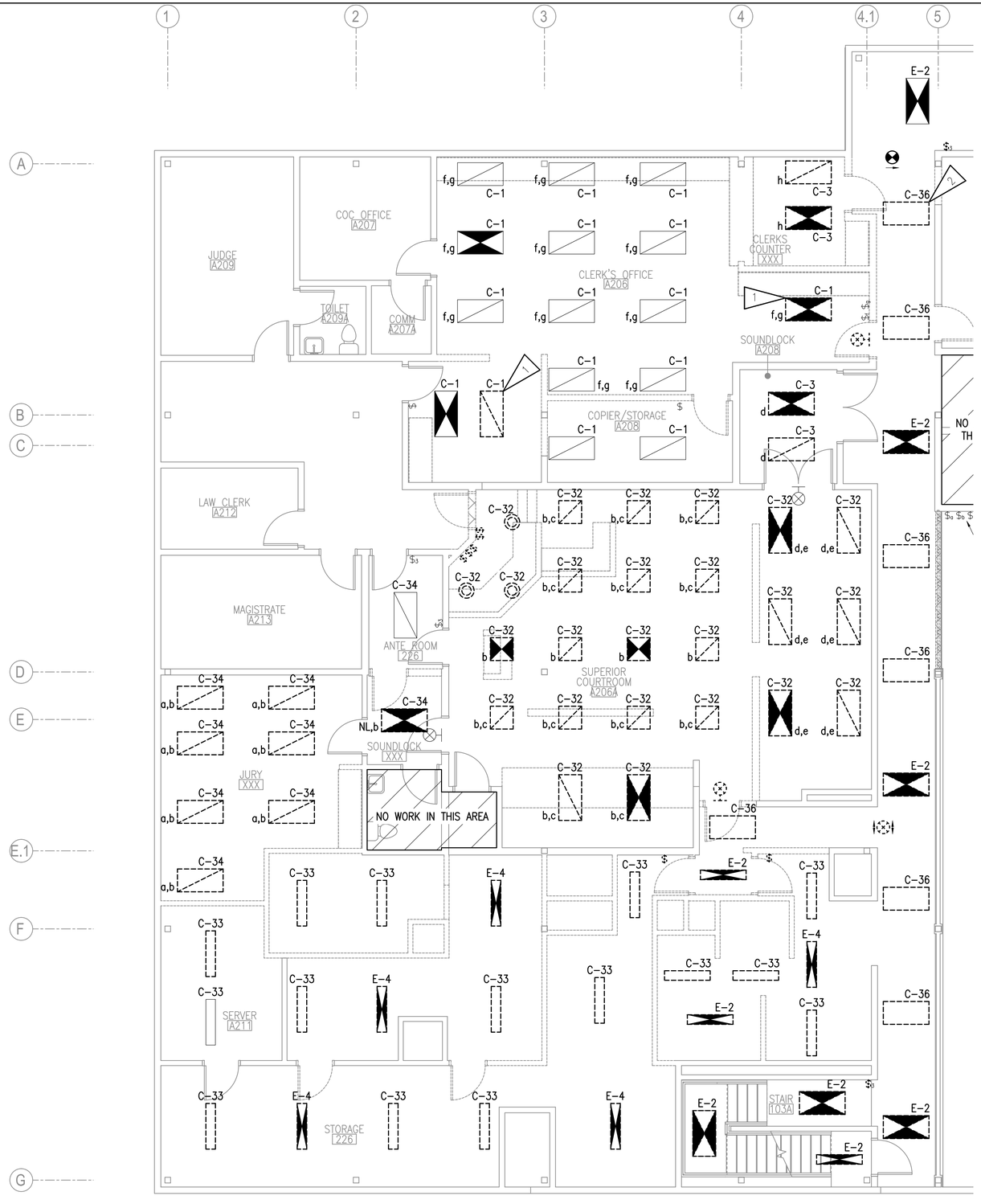
FIRST FLOOR - BLOCK A - LIGHTING DEMOLITION PLAN

E101

BETTISWORTH NORTH ARCHITECTS & PLANNERS

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL



1 SECOND FLOOR - BLOCK A - LIGHTING DEMOLITION PLAN

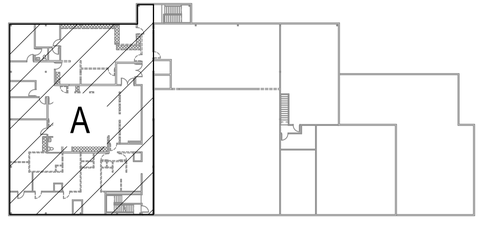
3/16" = 1'-0"

GENERAL NOTES:

A. SEE E101 FOR GENERAL NOTES.

SHEET NOTES:

1. REMOVE FIXTURE AND SAVE FOR RE-INSTALLATION AT NEW LOCATION. EXTEND EXISTING CIRCUIT TO NEW LOCATION. SEE E202 FOR NEW LOCATION
2. REMOVE FIXTURE AND SAVE FOR RE-INSTALLATION AT NEW LOCATION. DEMOLISH CIRCUIT BACK TO NEXT DEVICE TO REMAIN.



KEY PLAN

NO SCALE

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
JEREMY A. MAXIE
EE-113847
5/1/23
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

RSA
Mechanical and Electrical Consulting Engineers
670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	FS
CHECKED BY:	JAM,PCC

REVISION	DESCRIPTION	DATE

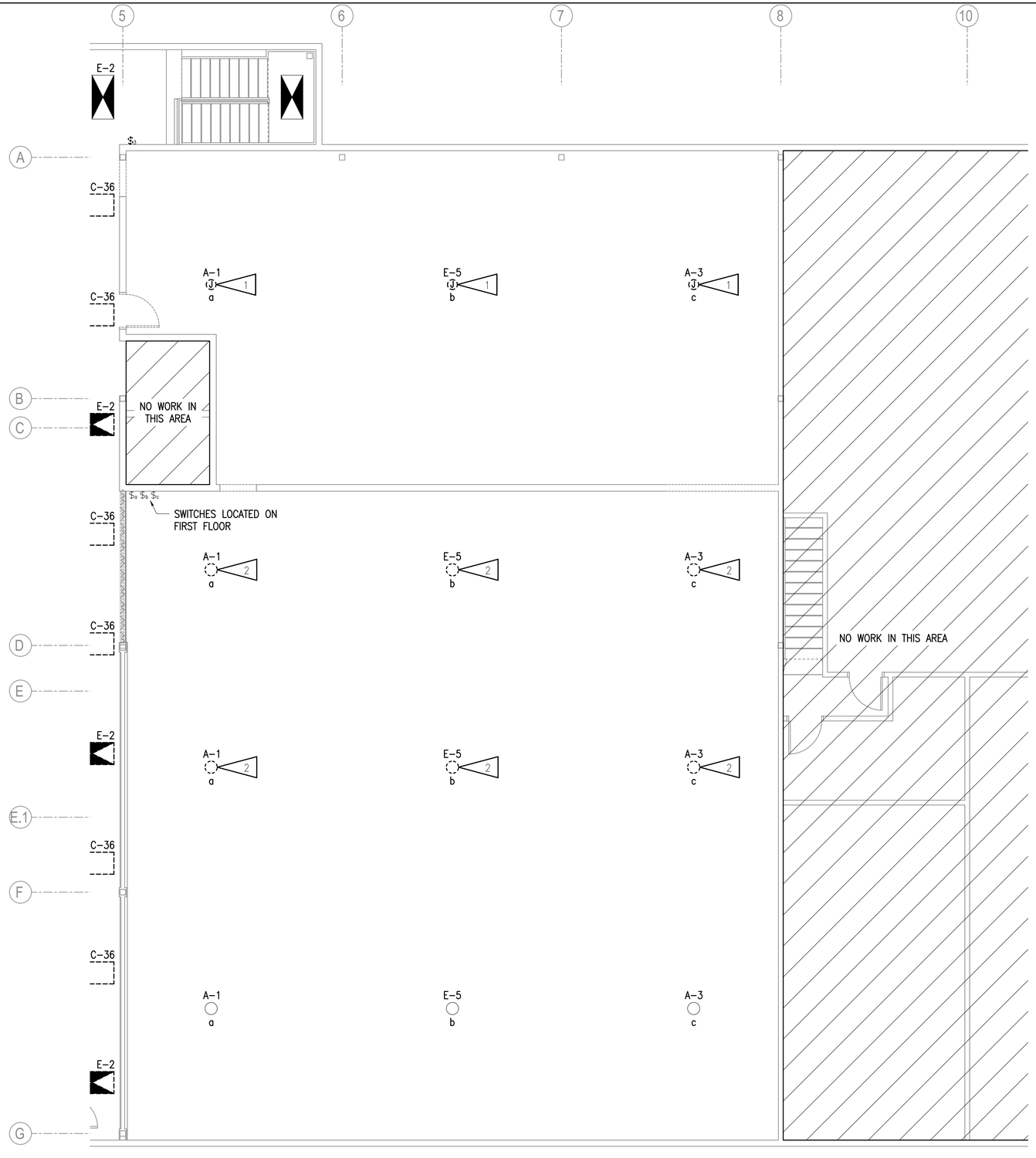
SECOND FLOOR - BLOCK A - LIGHTING DEMOLITION PLAN

E102

BETTISWORTH NORTH ARCHITECTS & PLANNERS

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL



1 SECOND FLOOR - BLOCK B - LIGHTING DEMOLITION PLAN

3/16" = 1'-0"

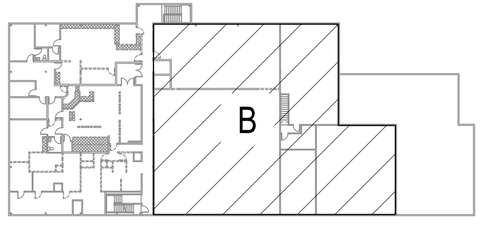
GENERAL NOTES:

A. SEE E101 FOR GENERAL NOTES.

GENERAL NOTES:

1. DEMOLISH JUNCTION BOX AND CONDUIT BACK TO HIGH-BAY FIXTURES TO REMAIN. EXTEND EXISTING CIRCUIT AS REQUIRED TO MAINTAIN INTEGRITY OF EXISTING TO REMAIN FIXTURES.

2. EXISTING FIXTURES MOUNTED TO BOTTOM OF ROOF JOIST TO BE MOVED PLAN SOUTH ONE JOIST. DEMOLISH AND EXTEND EXISTING CIRCUIT AS REQUIRED FOR NEW FIXTURE LOCATIONS. SEE E204 FOR NEW LOCATION.



KEY PLAN

NO SCALE

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
JEREMY A. MAXIE
EE-113847
5/4/23
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

RSA

Mechanical and Electrical Consulting Engineers

670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	FS
CHECKED BY:	JAM,PCC

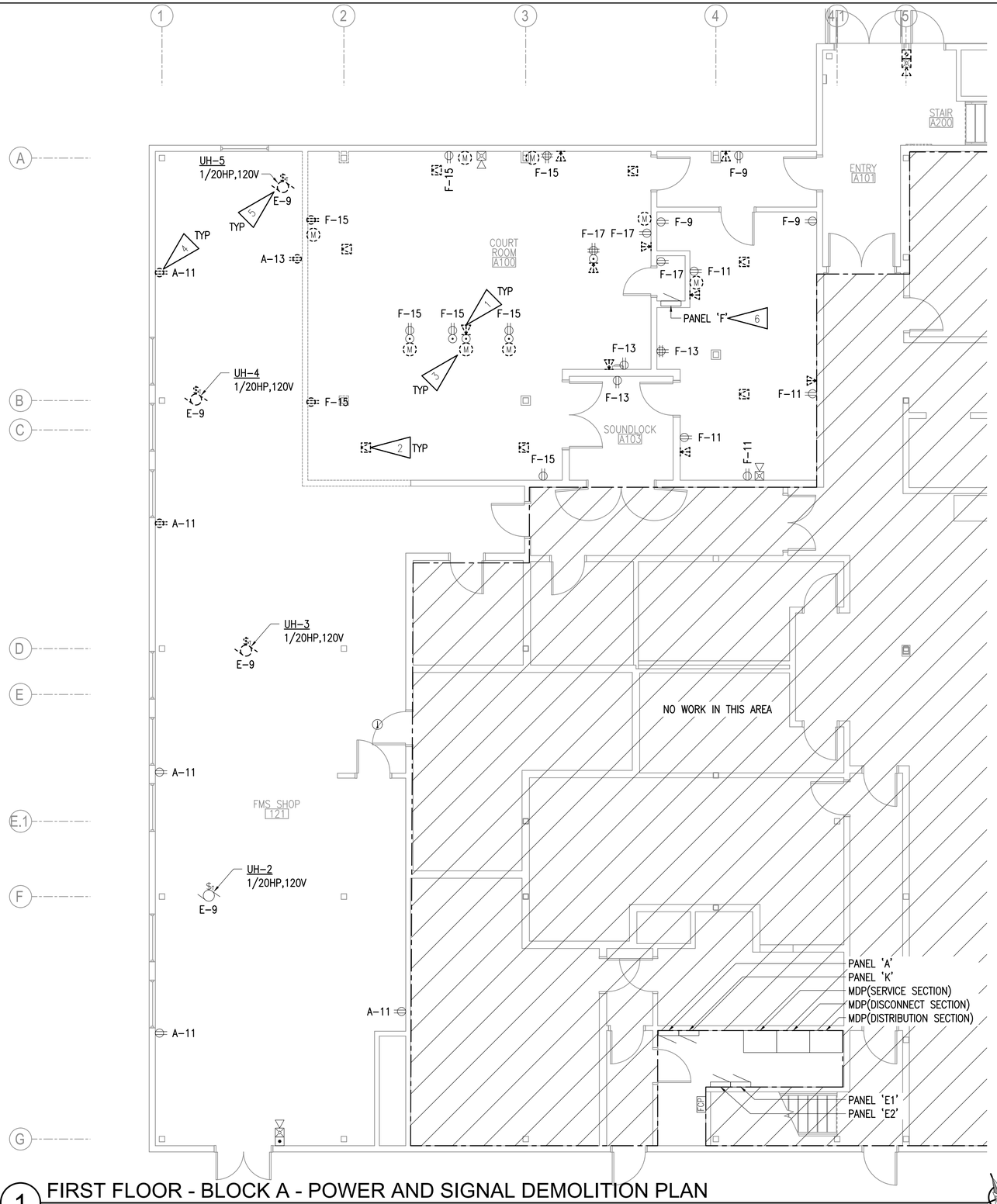
REVISION	DESCRIPTION	DATE

SECOND FLOOR - BLOCK B - LIGHTING DEMOLITION PLAN

E103

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL



1 FIRST FLOOR - BLOCK A - POWER AND SIGNAL DEMOLITION PLAN

3/16" = 1'-0"

GENERAL NOTES:

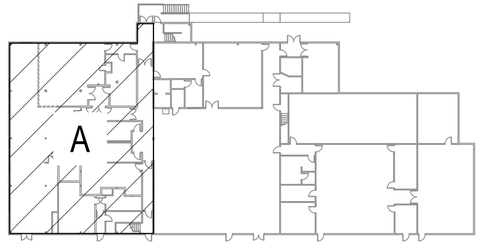
A. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM RECORD DRAWINGS AND A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.

B. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE OWNER. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.

C. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.

SHEET NOTES:

1. DEMOLISH TELECOM CABLING BACK TO TELECOM ROOM ABOVE. EXISTING OUTLET AND CONDUIT TO REMAIN.
2. REMOVE SPEAKER AND TURN OVER TO OWNER. DEMOLISH CABLING.
3. DEMOLISH MIC JACK AND CABLING.
4. DEMOLISH RECEPTACLE, CONDUIT, AND CONDUCTORS BACK TO NEXT DEVICE TO REMAIN. EXTEND CIRCUIT AS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY FOR EXISTING TO REMAIN DEVICES.
5. DEMOLISH UNIT HEATER, CONDUIT, AND CONDUCTORS BACK TO NEXT DEVICE TO REMAIN. EXTEND CIRCUIT AS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY FOR EXISTING TO REMAIN DEVICES.
6. ALL DEVICES CIRCUIT TO PANEL 'F' ON SECOND FLOOR ARE TO BE DISCONNECTED AND RECONNECTED TO NEW PANEL 'G'. SEE E105 FOR CIRCUITS. PROVIDE CONDUIT, CONDUCTORS, AND JUNCTION BOXES AS REQUIRED TO EXTEND CIRCUITS TO NEW PANEL.



KEY PLAN

NO SCALE

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
JEREMY A. MAXIE
EE-113847
6/4/23
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

RSA

Mechanical and Electrical Consulting Engineers

670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	FS
CHECKED BY:	JAM,PCC

REVISION	DESCRIPTION	DATE

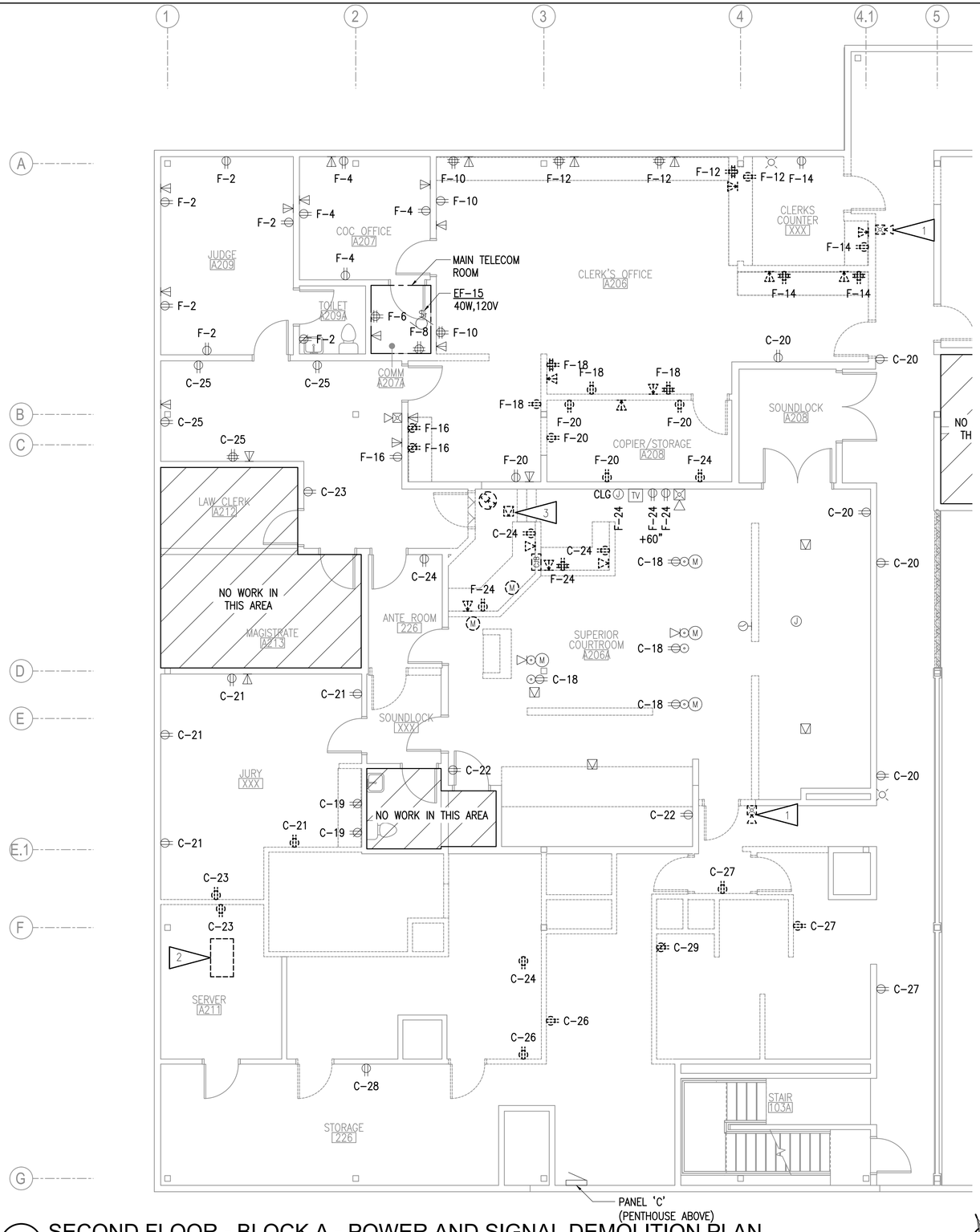
FIRST FLOOR - BLOCK A - POWER AND SIGNAL DEMOLITION PLAN

E104

BETTISWORTH NORTH ARCHITECTS & PLANNERS

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL



1 SECOND FLOOR - BLOCK A - POWER AND SIGNAL DEMOLITION PLAN

3/16" = 1'-0"

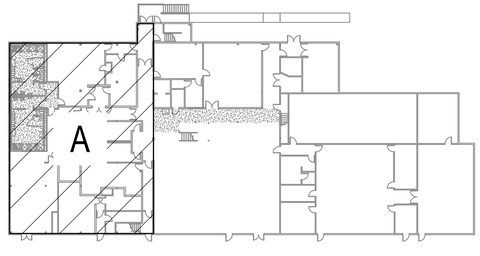
GENERAL NOTES:

A. SEE E104 FOR GENERAL NOTES.

B. ALL CIRCUITS SHOWN CONNECTED TO PANEL 'F' ARE TO BE RECONNECTED TO NEW PANEL 'G'. SEE E303 FOR NEW PANEL LOCATION.

SHEET NOTES:

1. REMOVE FIRE ALARM DEVICE AND SAVE FOR RE-INSTALLATION AT NEW LOCATION.
2. RECORDING SERVER TO BE RE-ORIENTATED IN ROOM TO FACILITATE NEW WALL LOCATION. EXISTING CABLING ENTERS OVERHEAD AND HAS SUFFICIENT SLACK FOR NEW LOCATION.
3. SALVAGE SPEAKER AND CABLING, TO THE EXTENT POSSIBLE, FOR NEW LOCATION ON NEW CEILING. SEE 1/E302.



KEY PLAN

NO SCALE

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA 24 OCTH JEREMY A. MAXIE EE-113847 5/1/23 REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM

KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES

KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

RSA

Mechanical and Electrical Consulting Engineers

670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	FS
CHECKED BY:	JAM,PCC

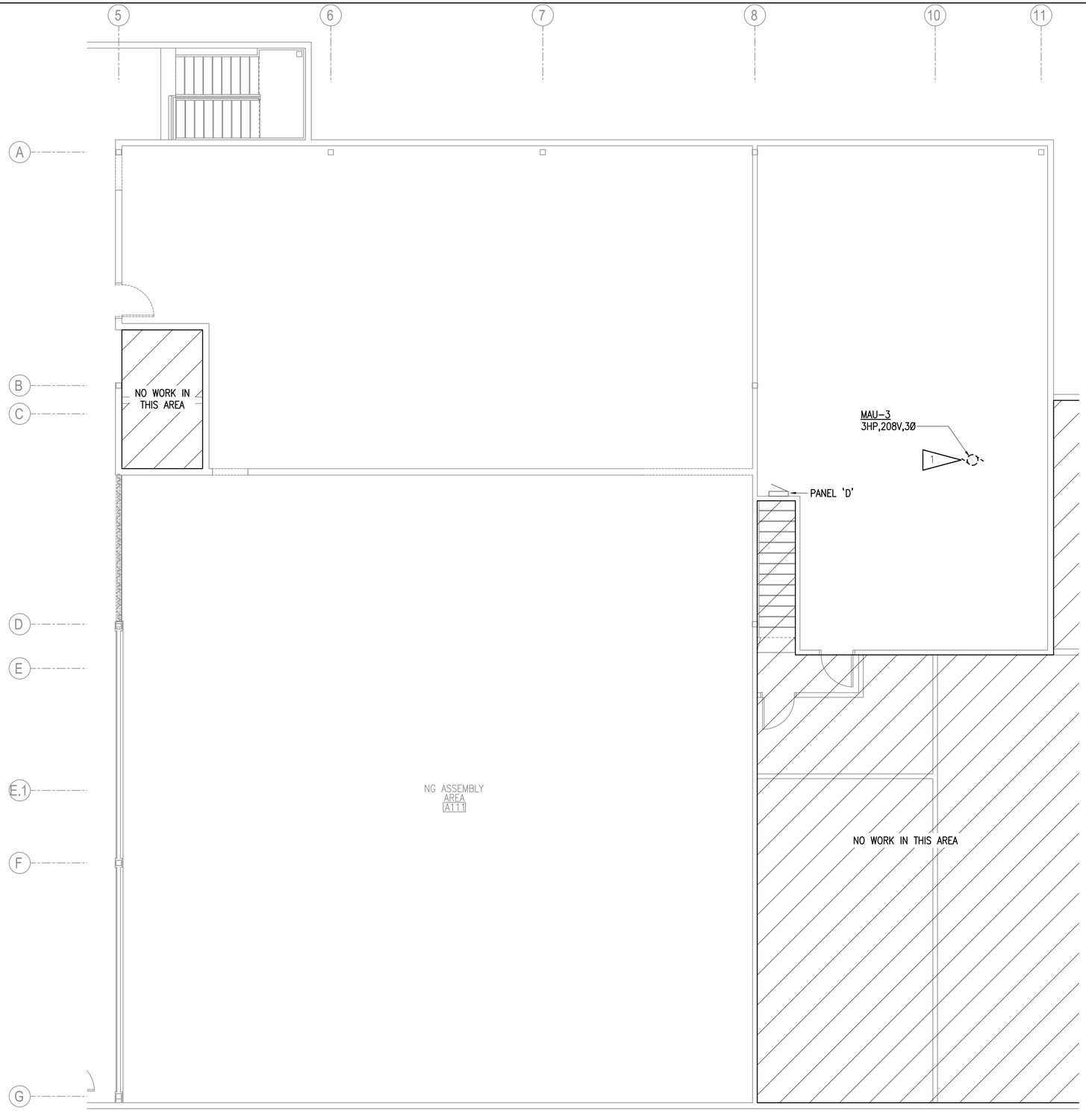
REVISION	DESCRIPTION	DATE

SECOND FLOOR - BLOCK A - POWER AND SIGNAL DEMOLITION PLAN

E105

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL



GENERAL NOTES:

A. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM RECORD DRAWINGS AND A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.

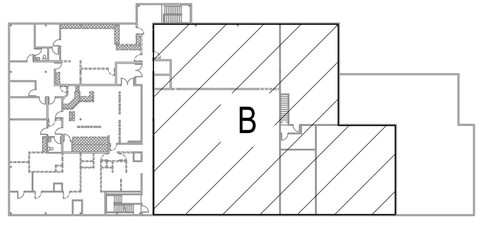
B. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE OWNER. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.

C. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.

SHEET NOTES:

1. DEMOLISH DISCONNECT, STARTER, CONDUIT, AND WIRE BACK TO PANEL 'D'.

1 SECOND FLOOR - BLOCK B - POWER AND SIGNAL DEMOLITION PLAN
3/16" = 1'-0"



KEY PLAN
NO SCALE

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
JEREMY A. MAXIE
EE-113847
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:
RSA
Mechanical and Electrical Consulting Engineers
670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	FS
CHECKED BY:	JAM,PCC

REVISION	DESCRIPTION	DATE

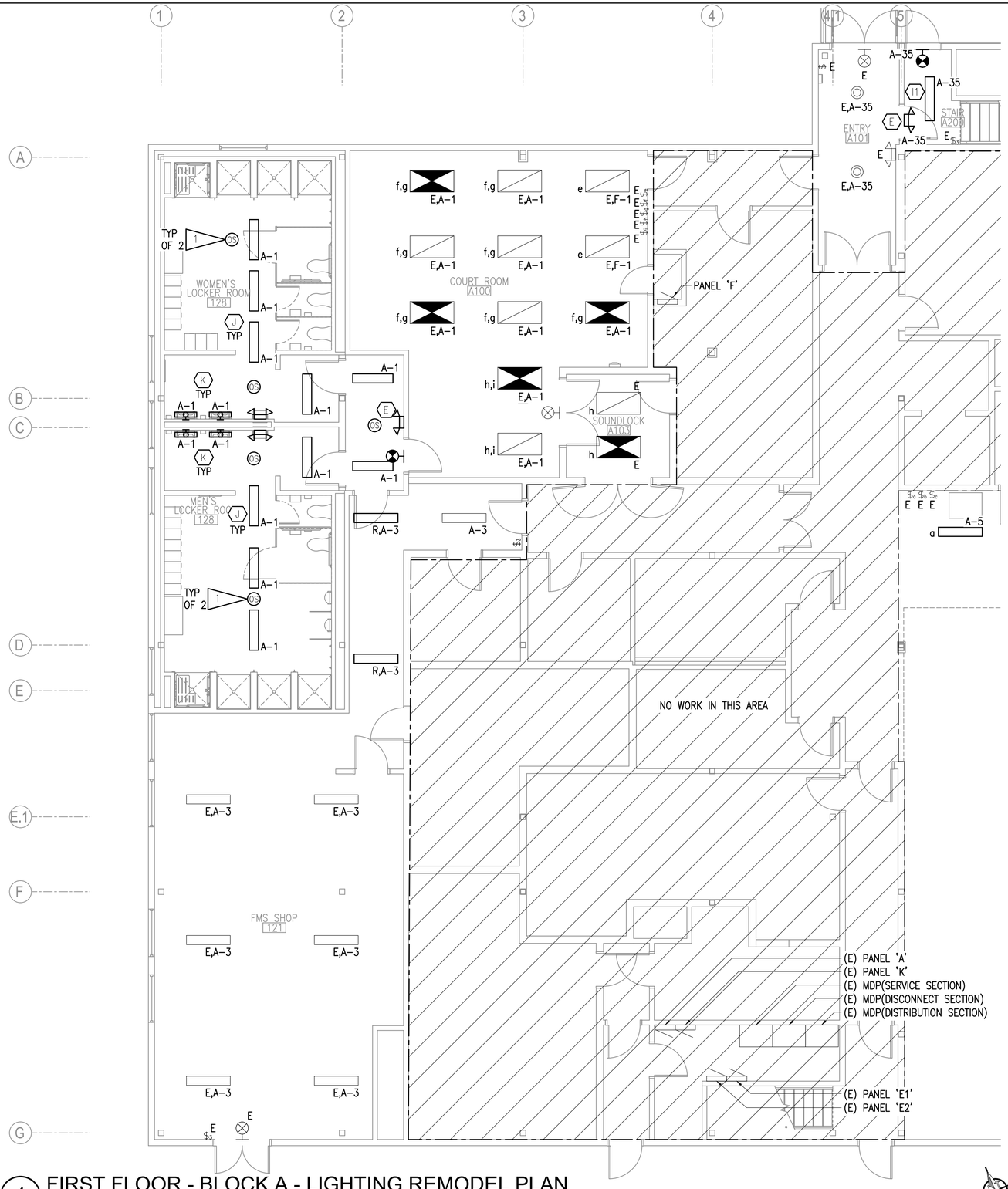
SECOND FLOOR - BLOCK B - POWER AND SIGNAL DEMOLITION PLAN

E106

BETTISWORTH NORTH ARCHITECTS & PLANNERS

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL



1 FIRST FLOOR - BLOCK A - LIGHTING REMODEL PLAN

3/16" = 1'-0"

GENERAL NOTES:

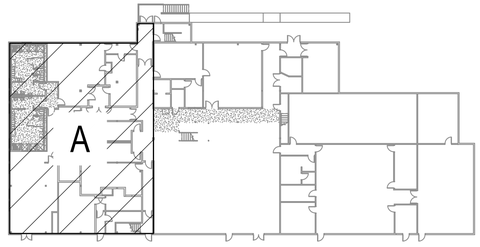
A. CONNECT NEW EMERGENCY FIXTURES TO UNSWITCHED SIDE OF LOCAL LIGHTING CIRCUIT.

B. POWER AND CONTROL WIRING NOT SHOWN FOR CLARITY. CONTRACTOR SHALL PROVIDE ALL NECESSARY CONDUIT AND CONDUCTORS FOR CONTROL AS SHOWN ON DRAWINGS.

C. UNLESS OTHERWISE NOTED, ALL EMERGENCY LIGHTING UNITS ARE TYPE 'E' AND ALL EXIT SIGNS ARE TYPE 'XS'.

SHEET NOTES:

1. PROVIDE DUAL RELAY OCCUPANCY SENSOR TO CONTROL LOCAL LIGHTING AND EXHAUST FANS AT DIFFERENT TIME INTERVALS. SEE E301 FOR EXHAUST FAN.



KEY PLAN

NO SCALE

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
JEREMY A. MAXIE
EE-113847
6/4/23
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

RSA
Mechanical and Electrical Consulting Engineers
670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	FS
CHECKED BY:	JAM,PCC

REVISION	DESCRIPTION	DATE

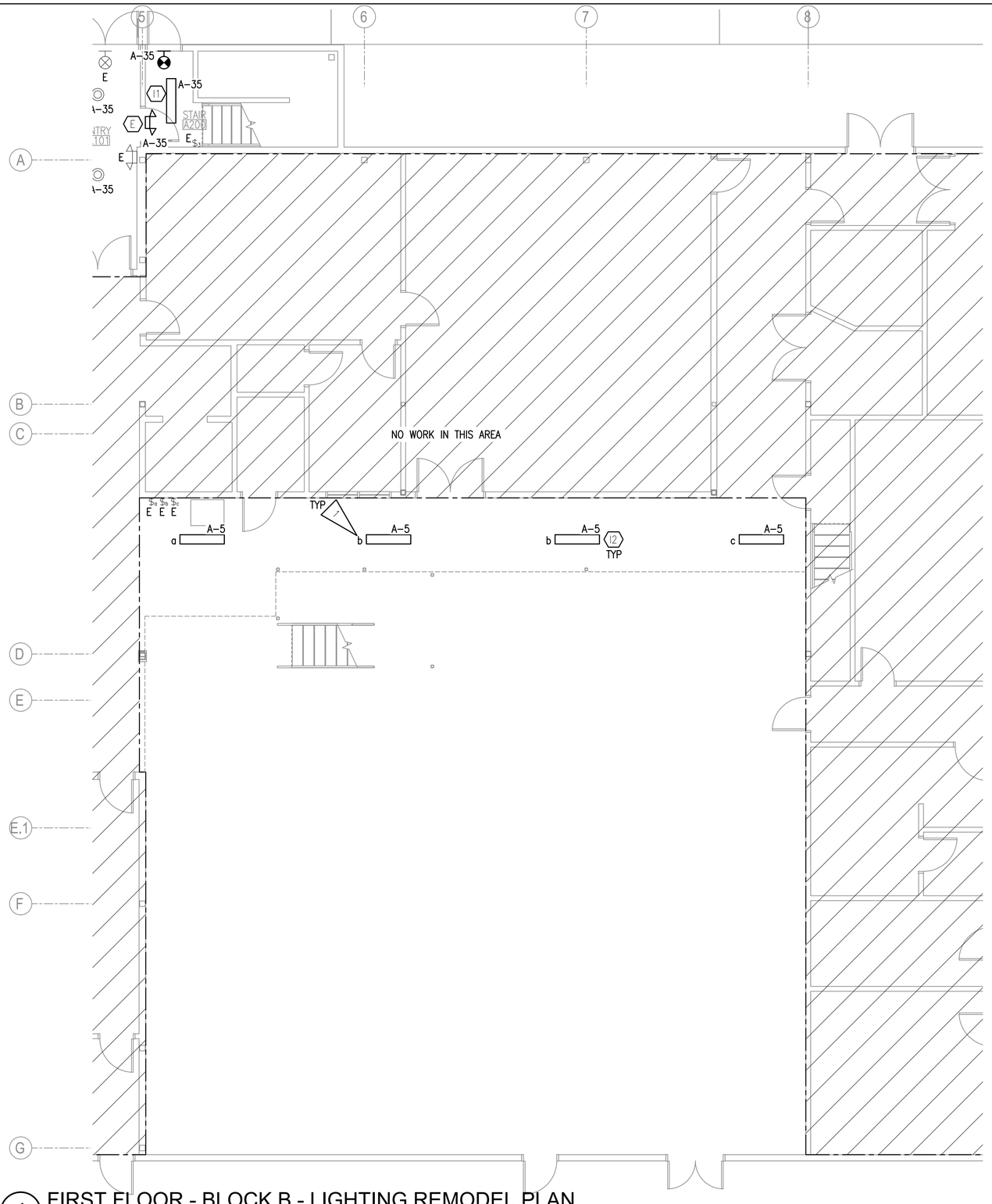
FIRST FLOOR - BLOCK A - LIGHTING REMODEL PLAN

E201

BETTISWORTH NORTH ARCHITECTS & PLANNERS

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL



1 FIRST FLOOR - BLOCK B - LIGHTING REMODEL PLAN

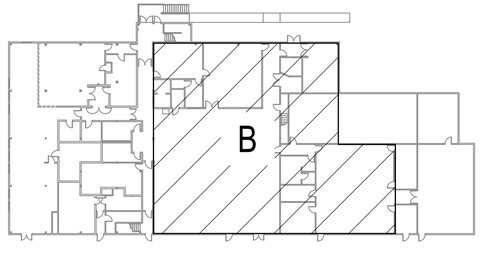
3/16" = 1'-0"

GENERAL NOTES:

A. SEE E201 FOR GENERAL NOTES.

SHEET NOTES:

1. CONNECT FIXTURES TO OVERHEAD LIGHTING CIRCUITS AS NOTED.



KEY PLAN

NO SCALE

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
JEREMY A. MAXIE
EE-113847
5/1/23
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM

KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES

KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

RSA

Mechanical and Electrical Consulting Engineers

670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	FS
CHECKED BY:	JAM,PCC

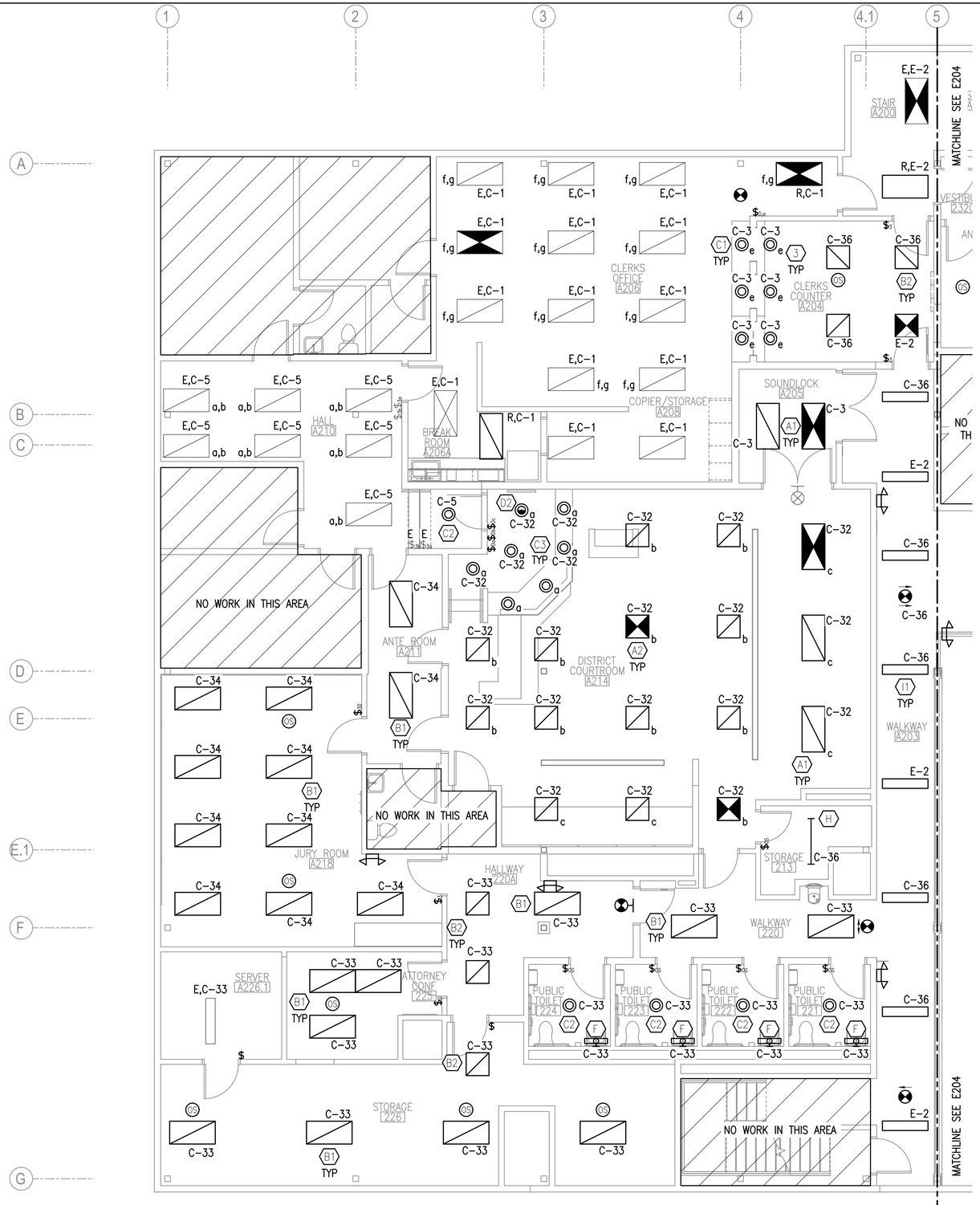
REVISION	DESCRIPTION	DATE

FIRST FLOOR - BLOCK B - LIGHTING REMODEL PLAN

E202

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL

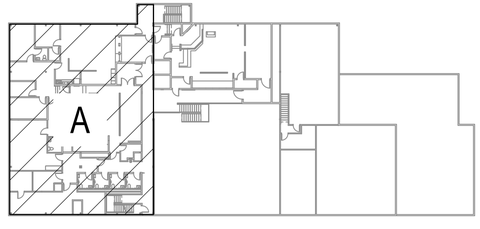


1 SECOND FLOOR - BLOCK A - LIGHTING REMODEL PLAN

3/16" = 1'-0"

GENERAL NOTES:

A. SEE E201 FOR GENERAL NOTES.



KEY PLAN

NO SCALE

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
JEREMY A. MAXIE
EE-113847
5/1/23
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM

KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES

KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

RSA

Mechanical and Electrical Consulting Engineers

670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	FS
CHECKED BY:	JAM,PCC

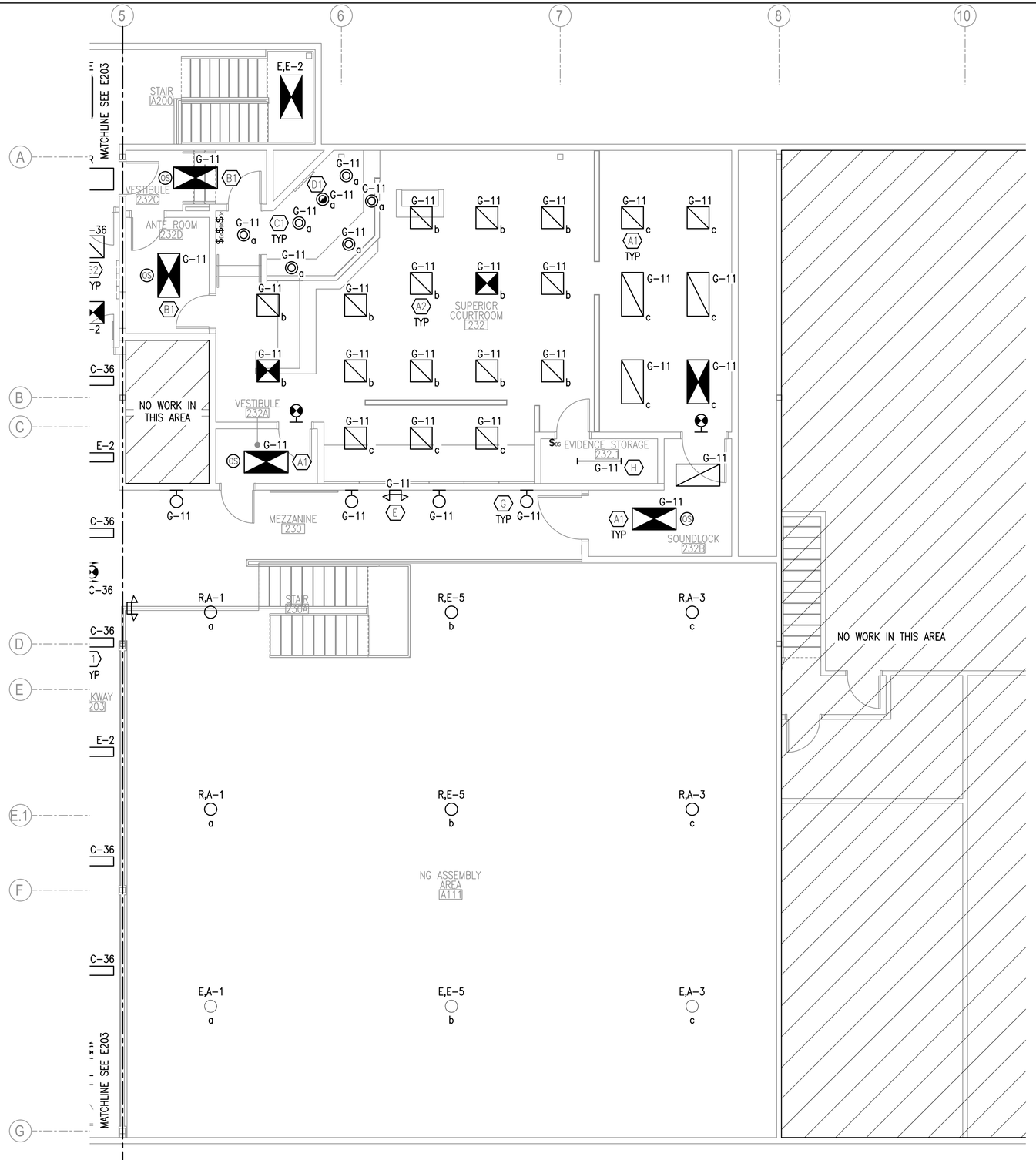
REVISION	DESCRIPTION	DATE

SECOND FLOOR - BLOCK A - LIGHTING REMODEL PLAN

E203

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL

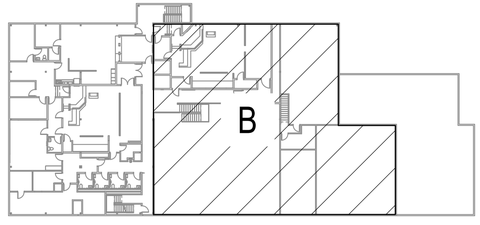


1 SECOND FLOOR - BLOCK B - LIGHTING REMODEL PLAN

3/16" = 1'-0"

GENERAL NOTES:

A. SEE E201 FOR GENERAL NOTES.



KEY PLAN

NO SCALE

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
JEREMY A. MAXIE
EE-113847
5/1/23
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM

KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES

KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

RSA
Mechanical and Electrical Consulting Engineers
670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	FS
CHECKED BY:	JAM,PCC

REVISION	DESCRIPTION	DATE

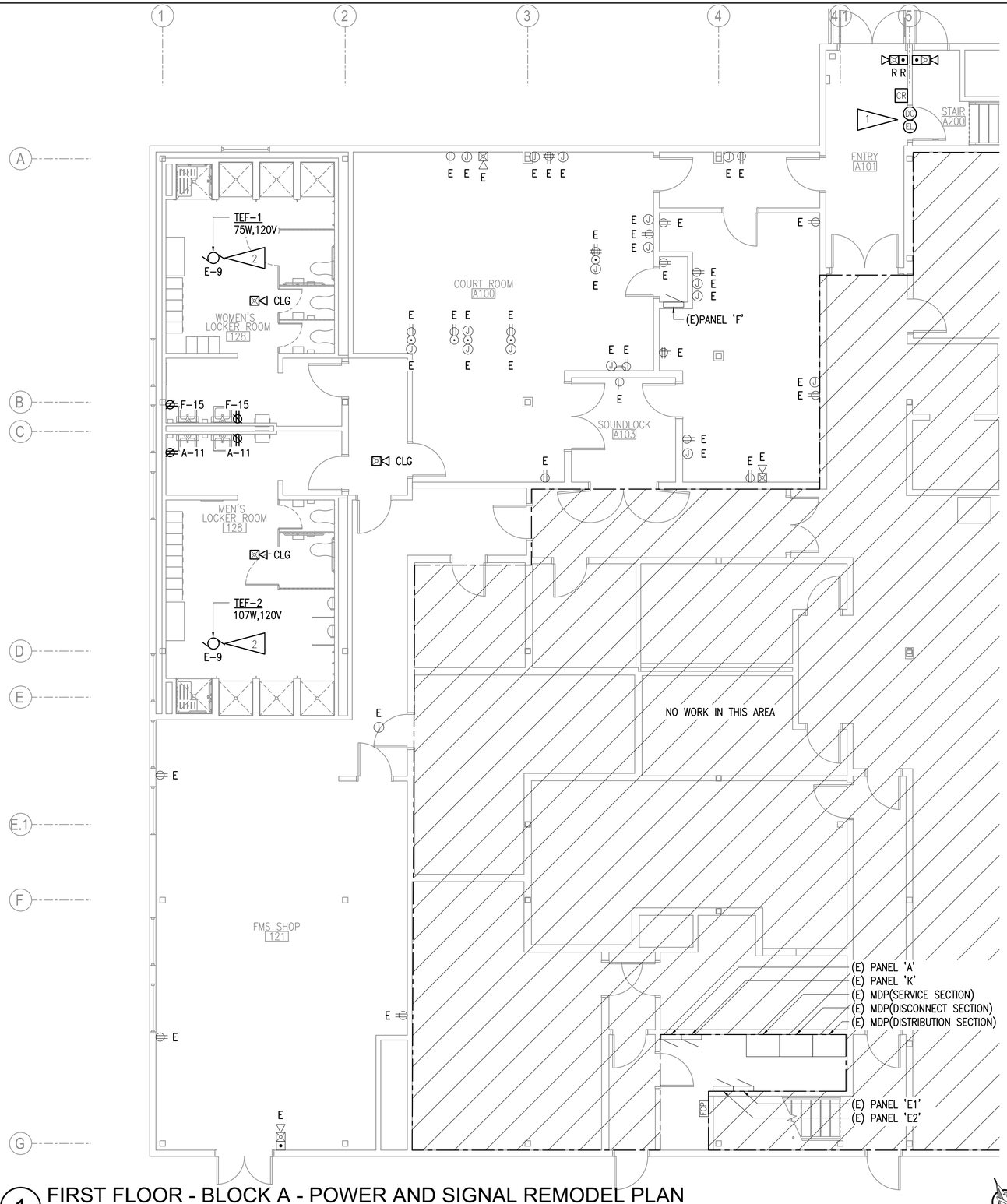
SECOND FLOOR - BLOCK B - LIGHTING REMODEL PLAN

E204

BETTISWORTH NORTH ARCHITECTS & PLANNERS

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL



1 FIRST FLOOR - BLOCK A - POWER AND SIGNAL REMODEL PLAN

3/16" = 1'-0"

GENERAL NOTES:

A. COORDINATE LOCATIONS OF POWER RECEPTACLES AND TELECOM OUTLETS WITH CASEWORK, FURNITURE AND EQUIPMENT LOCATIONS PRIOR TO ROUGH-IN.

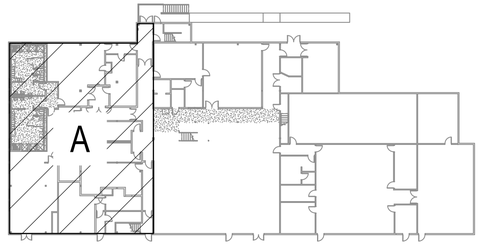
B. UNLESS OTHERWISE NOTED, ALL RECEPTACLES, TELECOM OUTLETS, AND MICROPHONE JACKS MOUNTED UNDER COUNTERS ARE TO BE MOUNTED 6" BELOW COUNTER TOP.

C. UNLESS OTHERWISE NOTED, ALL TELECOM SHALL BE INSTALLED AND TERMINATED BY CONTRACTOR. AUDIO CABLING SHALL BE INSTALLED BY CONTRACTOR AND TERMINATED BY OWNER.

SHEET NOTES:

1. BASE BID: PROVIDE 1" CONDUIT FROM ACCESSIBLE CEILING DOWN TO DOOR FRAME. COORDINATE WITH DIVISION 8 FOR WHICH SIDE TO LAND CONDUIT.
   ADDITIVE ALTERNATE #1: PROVIDE ACCESS CONTROL SYSTEM TO DOOR. SEE 1/E401 FOR TYPICAL DOOR DETAIL.

2. REFERENCE E201. CONNECT EXHAUST FAN TO OCCUPANCY SENSOR FOR AUTOMATIC ON/OFF CONTROL. SET EXHAUST FANS TO TURN OFF 30MINS AFTER LIGHT FIXTURES TURN OFF.



KEY PLAN

NO SCALE

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
JEREMY A. MAXIE
EE-113847
5/4/23
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

RSA
Mechanical and Electrical Consulting Engineers
670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	FS
CHECKED BY:	JAM,PCC

REVISION	DESCRIPTION	DATE

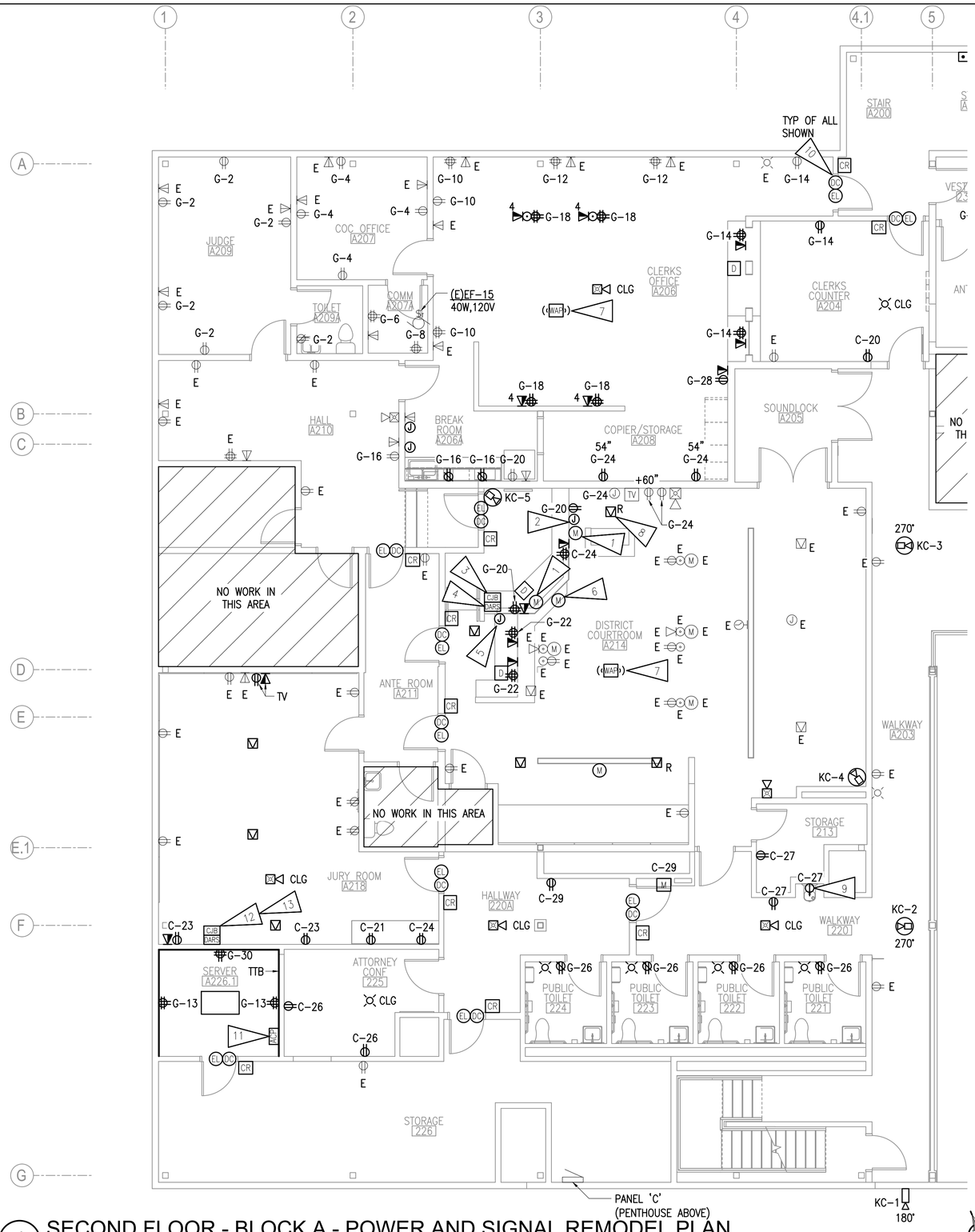
FIRST FLOOR - BLOCK A - POWER AND SIGNAL REMODEL PLAN

E301

BETTISWORTH NORTH ARCHITECTS & PLANNERS

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL



1 SECOND FLOOR - BLOCK A - POWER AND SIGNAL REMODEL PLAN

3/16" = 1'-0"

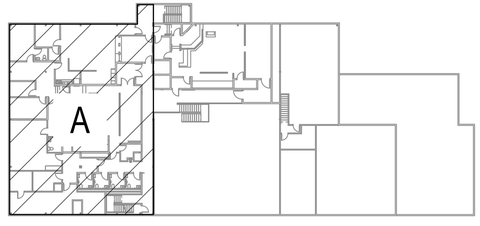
GENERAL NOTES:

A. SEE E301 FOR GENERAL NOTES.

B. TERMINATE ALL TELECOM AND WIRELESS ACCESS POINT CABLING ONTO NEW PATCH PANEL IN WALL RACK LOCATED IN COMM A207A. TERMINATE ALL VIDEO SURVEILLANCE CABLING ONTO NEW PATCH PANEL IN FLOOR RACK LOCATED IN SERVER A226.1.

SHEET NOTES:

1. PROVIDE 3/4" CONDUIT AND CABLING, FROM MICROPHONE J-BOX TO CLERK JUNCTION BOX (CJB). PROVIDE FEMALE XLR JACK AND FACEPLATE. OWNER TO TERMINATE CABLING.
2. PROVIDE 1.5"C AND CABLING FOR OFOI POLYCOM UNIT FROM CJB TO ACCESSIBLE WALL SPACE BELOW THE CLERKS COUNTER.
3. RELOCATED CLERK JUNCTION BOX (CJB). LOCATE DIRECTLY IN BACK OF THE DARS EQUIPMENT RACK. PROVIDE FROM CJB (1) 1"CONDUIT WITH (6) PULL STRINGS AND (2) 3/4" CONDUITS WITH (2) PULL STRING EACH CONCEALED TO ACCESSIBLE CEILING SPACE FOR FUTURE CONNECTIONS TO ABOVE CEILING COURTROOM SPEAKERS AND MISCELLANEOUS EQUIPMENT. FLEX CONDUIT NOT ALLOWED TO CJB OR DARS.
4. DARS WILL BE OWNER-FURNISHED AND OWNER-INSTALLED.
5. PROVIDE 1" CONDUIT FROM OUTLET UP TO ACCESSIBLE CEILING.
6. VOID MICROPHONE LOCATION. DRILL 5/8" DIAMETER HOLE, CENTERED HORIZONTALLY ON JUDGE BENCH FROM WALL. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 3/4" CONDUIT WITH CABLING, FROM MICROPHONE JUNCTION BOX TO CLERK JUNCTION BOX.
7. OWNER FURNISHED OWNER INSTALLED WIRELESS ACCESS POINT. PROVIDE CABLING AND INSTALL OUTLET IN CEILING TILE.
8. REINSTALL EXISTING SPEAKER IN NEW LOCATION. EXTEND CABLING AS REQUIRED TO NEW LOCATION.
9. COMBO FOUNTAIN AND BOTTLE FILL PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR. COORDINATE WITH SUPPLIED EQUIPMENT AND INSTALL RECEPTACLE IN LOCATION PER MANUFACTURERS INSTALLATION INSTRUCTIONS. PROVIDE GFCI PROTECTION FOR DEAD FRONT GFCI DEVICE AND FIELD LOCATE ON ADJACENT SIDE WALL TO EQUIPMENT AT 44" AFF. LEGRAND #2087W OR APPROVED EQUAL.
10. BASE BID: PROVIDE 1" CONDUIT FROM ACCESSIBLE CEILING DOWN TO DOOR FRAME. COORDINATE WITH DIVISION 8 FOR WHICH SIDE TO LAND CONDUIT.
    ADDITIVE ALTERNATE #1: PROVIDE ACCESS CONTROL SYSTEM TO DOOR. SEE 1/E401 FOR TYPICAL DOOR DETAIL.
11. BASE BID: NO WORK.
    ADDITIVE ALTERNATE #1: PROVIDE ACCESS CONTROL SYSTEM.
12. CONFIRM WITH OWNER LOCATION OF CJB AND DARS PRIOR TO ROUGH-IN.
13. PROVIDE (1)1"C FROM CJB TO ACCESSIBLE CEILING ABOVE.
14. PROVIDE J-HOOKS AT CEILING BETWEEN RACK AND RECEPTACLE LOCATION FOR POWER CABLING FOR RACK MOUNTED EQUIPMENT.



KEY PLAN

NO SCALE

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
JEREMY A. MAXIE
EE-113847
6/4/25
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

RSA
Mechanical and Electrical Consulting Engineers
670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	FS
CHECKED BY:	JAM,PCC

REVISION	DESCRIPTION	DATE

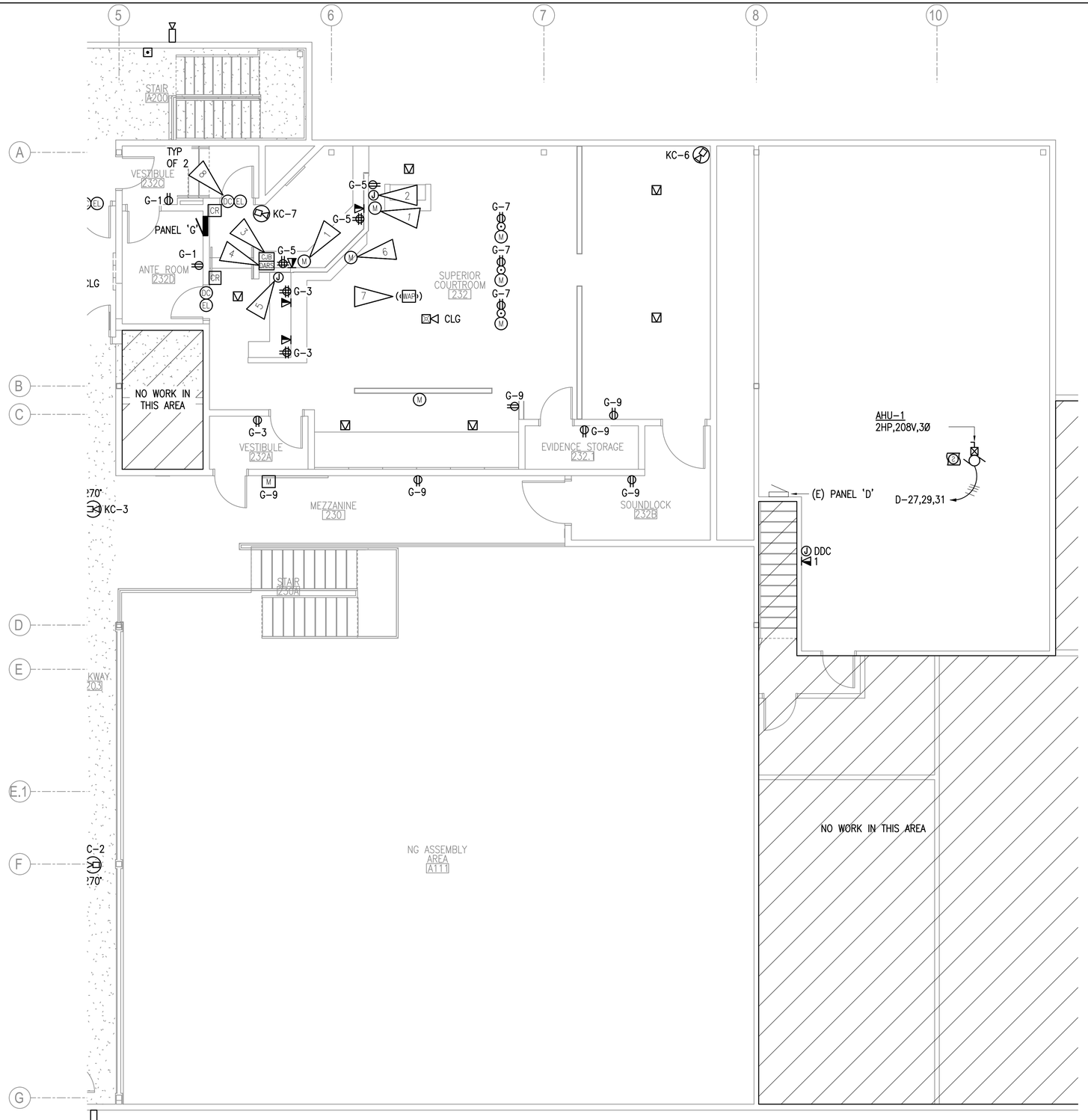
SECOND FLOOR - BLOCK A - POWER AND SIGNAL REMODEL PLAN

E302

BETTISWORTH NORTH ARCHITECTS & PLANNERS

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL



1 SECOND FLOOR - BLOCK B - POWER AND SIGNAL REMODEL PLAN

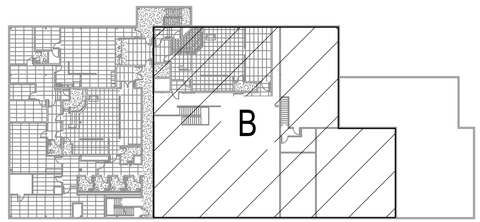
3/16" = 1'-0"

GENERAL NOTES:

A. SEE E302 FOR GENERAL NOTES.

SHEET NOTES:

1. PROVIDE 3/4" CONDUIT AND CABLING, FROM MICROPHONE JUNCTION BOX TO CLERK JUNCTION BOX (CJB). PROVIDE FEMALE XLR JACK AND FACEPLATE. OWNER TO TERMINATE CABLING.
2. PROVIDE 1.5"C AND CABLING FOR OFOI POLYCOM UNIT FROM CJB TO ACCESSIBLE WALL SPACE BELOW THE CLERKS COUNTER.
3. PROVIDE CLERK JUNCTION BOX (CJB). LOCATE DIRECTLY IN BACK OF THE DARS EQUIPMENT RACK. PROVIDE FROM CJB (1) 1"CONDUIT WITH (6) PULL STRINGS AND (2) 3/4" CONDUITS WITH (2) PULL STRING EACH CONCEALED TO ACCESSIBLE CEILING SPACE FOR FUTURE CONNECTIONS TO ABOVE CEILING COURTROOM SPEAKERS AND MISCELLANEOUS EQUIPMENT.FLEX CONDUIT NOT ALLOWED TO CJB OR DARS.
4. DARS WILL BE OWNER-FURNISHED AND OWNER-INSTALLED.
5. PROVIDE 1" CONDUIT FROM OUTLET UP TO ACCESSIBLE CEILING.
6. VOID MICROPHONE LOCATION. DRILL 5/8" DIAMETER HOLE, CENTERED HORIZONTALLY ON JUDGE BENCH FROM WALL. COORDINATE EXACT LOCATION WITH ACS. PROVIDE 3/4" CONDUIT WITH CABLING, FROM MICROPHONE JUNCTION BOX TO CLERK JUNCTION BOX.
7. OWNER FURNISHED OWNER INSTALLED WIRELESS ACCESS POINT. PROVIDE CABLING AND INSTALL OUTLET IN CEILING TILE.
8. BASE BID: PROVIDE 1" CONDUIT FROM ACCESSIBLE CEILING DOWN TO DOOR FRAME. COORDINATE WITH DIVISION 8 FOR WHICH SIDE TO LAND CONDUIT.
   ADDITIVE ALTERNATE #1: PROVIDE KEY CARD ACCESS CONTROL TO DOOR. SEE 1/E401 FOR TYPICAL DOOR DETAIL.



KEY PLAN

NO SCALE

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
JEREMY A. MAXIE
EE-113847
5/4/23
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:

RSA
Mechanical and Electrical Consulting Engineers
670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	FS
CHECKED BY:	JAM,PCC

REVISION	DESCRIPTION	DATE

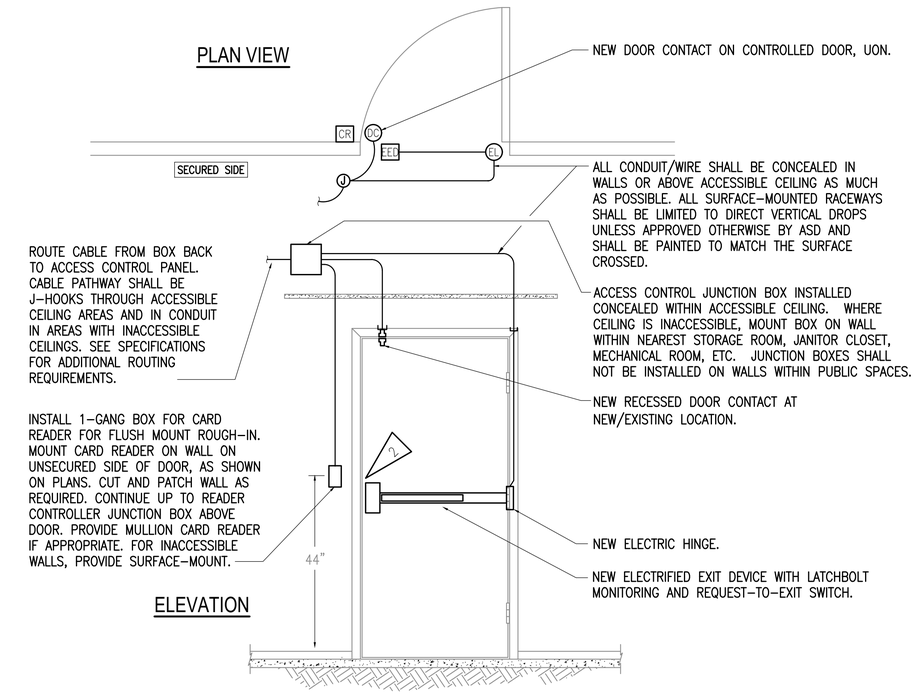
SECOND FLOOR - BLOCK B - POWER AND SIGNAL REMODEL PLAN

E303

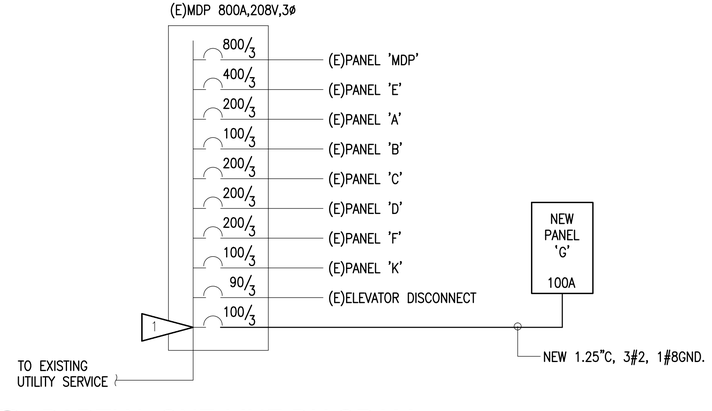
BETTISWORTH NORTH ARCHITECTS & PLANNERS

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL



1 CONTROLLED DOOR - SINGLE DOOR, ELECTRIFIED EXIT DEVICE (ADD ALT #1)
NO SCALE



2 PARTIAL ONE-LINE DIAGRAM
NO SCALE

SHEET NOTES:

1. CONNECT TO EXISTING SPARE BREAKER IN PANEL.
2. ELECTRIFIED STRIKE OR MORTISE LOCKSET MAY BE USED. COORDINATE WITH DIVI 8 SUBMITTAL FOR EXACT HARDWARE USED.

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:
RSA
Mechanical and Electrical Consulting Engineers
670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	FS
CHECKED BY:	JAM,PCC

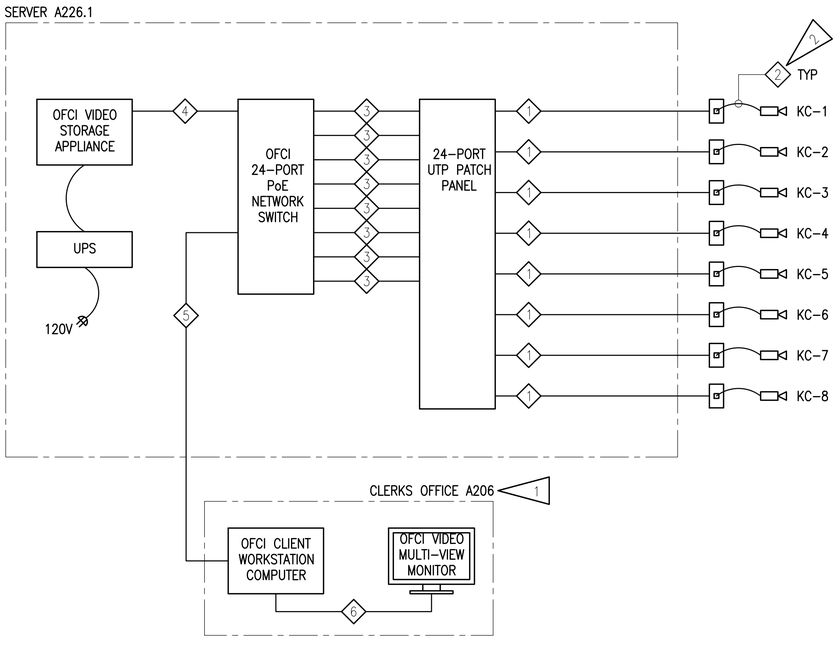
REVISION	DESCRIPTION	DATE

ELECTRICAL DETAILS & PARTIAL ONE-LINE

E401

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL



1 IP VIDEO ONE-LINE DIAGRAM
NO SCALE

IP VIDEO SYSTEM CABLE SCHEDULE

CABLE NUMBER	DESCRIPTION
1	CAMERA PoE CABLES CAT 6 UTP
2	CAMERA FIELD PATCH CORD, CAT 6 UTP, LENGTH AS REQUIRED
3	CROSS–CONNECT PATCH CORD, CAT 6 UTP
4	GIGABIT ETHERNET UPLINK PATCH CORD, CAT 6 UTP
5	NETWORK HORIZONTAL CABLE, CAT 6 UTP
6	MONITOR CABLE BY OWNER

IP SYSTEM CAMERA SCHEDULE

CAMERA DESIGNATION	CAMERA LOCATION (SEE PLANS)	INTENDED COVERAGE AREA	CAMERA TYPE (SEE SPECS)
KC–1	SOUTH EXTERIOR WALL OF MAIN BUILDING	VIEW OF SOUTH AREA OF BUILDING	TYPE 'A'
KC–2	SOUTH OF WALKWAY A203	270 DEGREE FIELD OF VIEW OF SOUTH TRAFFIC IN/OUT OF WALKWAY A203	TYPE 'B'
KC–3	NORTH OF WALKWAY A203	270 DEGREE FIELD OF VIEW OF NORTH TRAFFIC IN/OUT OF WALKWAY A203	TYPE 'B'
KC–4	SOUTHEAST CORNER OF DISTRICT COURTROOM A214	GENERAL COVERAGE OF DISTRICT COURTHOUSE A214	TYPE 'C'
KC–5	NORTHWEST CORNER OF DISTRICT COURTROOM A214	GENERAL COVERAGE OF DISTRICT COURTHOUSE A214	TYPE 'C'
KC–6	NORTHWEST CORNER OF SUPERIOR COURTROOM 232	GENERAL COVERAGE OF SUPERIOR COURTHOUSE 232	TYPE 'C'
KC–7	NORTHEAST CORNER OF SUPERIOR COURTROOM 232	GENERAL COVERAGE OF SUPERIOR COURTHOUSE 232	TYPE 'C'
KC–8	NORTH EXTERIOR WALL OF MAIN BUILDING	VIEW OF NORTH AREA OF BUILDING	TYPE 'A'

GENERAL NOTES:

A. PROVIDE WALL MOUNTED BRACKET FOR PATCH PANEL AND SWITCHES AND FIELD COORDINATE LOCATION WITH OWNER.

SHEET NOTES:

1. COORDINATE WITH OWNER FOR EXACT LOCATION OF CLIENT WORKSTATION COMPUTER.
2. EXTERIOR CAMERAS SHALL BE USE EXTERIOR RATED PATCH CORD.

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
JEREMY A. MAXIE
EE-113847
6/4/23
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:
RSA
Mechanical and Electrical Consulting Engineers
670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	FS
CHECKED BY:	JAM,PCC

REVISION	DESCRIPTION	DATE

ELECTRICAL DETAILS

E402

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL

EXISTING PANEL 'A'

MFR/MODEL: SQUARE 'D' TYPE NQOB | VOLTS: 120/208V,3PH,4W | ENCLOSURE: NEMA 1 | 225 A

						VOLT-AMPS			MTG: SURFACE					
NOTE	CIRC	POLE	AMPS	SERVICE	TYPE	A	B	C	TYPE	SERVICE	AMPS	POLE	CIRC	NOTE
a	1	1	20	**LTG-RM A100, 128**	LTG	1521				"a" SWITCHED LTG RM 104	20	1	2	
a	3	1	20	**LTG-RM 121 & COR**	LTG		1423			"c" SWITCHED LTG RM 104	20	1	4	
a	5	1	20	**LTG RM 101-103,125,126,131, A11**	LTG			1440		LTG RM 201,201A,207,208	20	1	6	
	7	1	20	DRAIN HEAT TAPE (EAST END)						NORTH WP OUTLET	20	1	8	
	9	1	20	SPARE						RECP RM 104,125,126	20	1	10	
b	11	1	20	**RECP-128 MENS, 121**	RECP			360		RECP RM 104	20	1	12	
b	13	1	20	**RECP RM 132,133**	RECP	540				SOUTH WP RECP	20	1	14	
	15	1	20	RECP RM 119						RECP RM 116	20	1	16	
	17	1	20	RECP RM 102A,120.121,121A						RECP RM 113,118	20	1	18	
	19	1	20	RECP RM 122,123,124						SOUTH WP OUTLET	20	1	20	
	21	1	20	SPARE						RECP RM 114,115	20	1	22	
	23	1	20	HEADBOLT HEATER RECP						RECP RM 112,114	20	1	24	
	25	1	20	HEADBOLT HEATER RECP						HEADBOLT HEATER RECP	20	1	26	
	27	1	20	HEADBOLT HEATER RECP						HEADBOLT HEATER RECP	20	1	28	
	29	1	20	WH-1 RM 132						HEADBOLT HEATER RECP	20	1	30	
	31	1	20	STRIP OUTLET RM 120 N.						STRIP OUTLET RM 120 S.	15	1	32	
	33	1	15	WH-1 RM 132?						CRAWL SPACE LTG	20	1	34	
	35	1	15	N. EXT. LTG. & FUEL ISLAND LTG						CRAWL SPACE RECP & HT	20	1	36	
	37	1	15	S. EXT. LTG. THRU CONTACTOR						LTG. CONTACTOR CTRL	20	1	38	
	39	1	15	SPARE						SPARE	20	1	40	
	41	1	15	WATER COOLER RECP						SPARE	20	1	42	

PANEL NOTES:
a NEW LOAD ON EXISTING BREAKER
b CIRCUIT REVISED

PANEL OPTIONS:
MAIN LUGS ONLY

EXISTING PANEL 'C'

MFR/MODEL: SQUARE 'D' TYPE NQOB | VOLTS: 120/208V,3PH,4W | ENCLOSURE: NEMA 1 | 225 A

						VOLT-AMPS			MTG: SURFACE					
NOTE	CIRC	POLE	AMPS	SERVICE	TYPE	A	B	C	TYPE	SERVICE	AMPS	POLE	CIRC	NOTE
a	1	1	20	**LTG - A206, A208**	LTG	1501				EF-2-RM301	15	1	2	
a	3	1	20	**LTG - A204, A205**	LTG		976			OUTLETS SERVER RM	20	1	4	
a	5	1	20	**LTG - A207,A, A209,A, A210, A210**	LTG			1742		EF-1 RM 301	15	1	6	
	7	1	20	OUTLETS SERVER RM						AHU-1 - RM 301	35	3	8	
	9	1	20	EF-3 RM 301						^^^	35	3	10	
	11	1	20	VF-2 RM 301						^^^	35	3	12	
	13	1	20	VF-2 RM 301						MUA-1 RM 301	15	3	14	
	15	1	20	FULL						^^^	15	3	16	
	17	1	20	EF-9, OUTLET SERVER RM						^^^	15	3	18	
	19	1	20	RECP - A217, A218						RECP - A203, A206, A214, A204	20	1	20	
b	21	1	20	**RECP - A218**	RECP		1080			RECP - SUP CRT RM A214	20	1	22	
b	23	1	20	RECP - RM. A210, A212, A213, **A218**	RECP			1260 1080	RECP	**RECP - A218, A214 JUDGE**	20	1	24	b
	25	1	20	WATER COOLER OUTLET						RECP - RM 212. **225**	20	1	26	b
b	27	1	20	**RECP-213, 220 E.,**	RECP		540			RECP - RM 212	20	1	28	
b	29	1	20	**RECP - HALLWAY 220A**	RECP			180		RECP - RM 211	20	1	30	
	31	1	20	RECP - RM 301		731			LTG	**LTG - A214**	20	1	32	a
a	33	1	20	**LTG-A220A,220-226**	LTG		1205 978		LTG	**LTG - A211,A218**	20	1	34	a
	35	1	20	LTG - RM 215, 301				1407	LTG	**LTG - A203, A204, A213**	20	1	36	a
	37	1	20	FULL						FULL	20	1	38	
	39	1	20	RECP - SECRETARIAL A210						FULL	20	1	40	
	41	1	20	FULL						FULL	20	1	42	

PANEL NOTES:
a NEW LOAD ON EXISTING BREAKER
b CIRCUIT REVISED.

PANEL OPTIONS:
MAIN LUGS ONLY

EXISTING PANEL 'D'

MFR/MODEL: SQUARE 'D' TYPE NQOB | VOLTS: 120/208V,3PH,4W | ENCLOSURE: NEMA 1 | 225 A

						VOLT-AMPS			MTG: SURFACE					
NOTE	CIRC	POLE	AMPS	SERVICE	TYPE	A	B	C	TYPE	SERVICE	AMPS	POLE	CIRC	NOTE
	1	1	20	LTG RM 216 217						EF-5 RM OMS	15	1	2	
	3	1	20	RECP - RM 216 217						EF-11 RM 216	15	1	4	
	5	1	20	EF-8 RM 216						AHU-3 RM 216	15	1	6	
c	7	3	35	**SPARE**						WPB-1 RM 217	15	3	8	
c	9	3	35	^^^						^^^	15	3	10	
c	11	3	35	^^^						^^^	15	3	12	
	13	3	15	AHU-4 RM 216						TREADMILL	20	2	14	
	15	3	15	^^^						^^	20	2	16	
	17	3	15	^^^						SPACE	-	1	18	
	19	1	15	CF-1,2,3,4 RM 104						SPARE	35	3	20	
	21	1	15	CH-5, EF-13 RM 113						^^^	35	3	22	
	23	1	15	SPARE						^^^	35	3	24	
b	25	1	20	**DDC PANEL**	MISC	500				EF-15 & CTRL ALARM PNL	20	1	26	
a	27	3	15	**AHU-1**	MOTR		2810			SPARE	20	1	28	
a	29	3	15	^^^	MOTR			2810		SPACE	-	1	30	
a	31	3	15	^^^	MOTR	2810				SPACE	-	1	32	
	33	1	-	SPACE						SPACE	-	1	34	
	35	1	-	SPACE						SPACE	-	1	36	
	37	1	-	SPACE						SPACE	-	1	38	
	39	1	-	SPACE						SPACE	-	1	40	
	41	1	-	SPACE						SPACE	-	1	42	

PANEL NOTES:
a INSTALL NEW CIRCUIT BREAKER IN SPACE AVAILABLE IN THE EXISTING PANEL. THE CIRCUIT BREAKER SHALL BE COMPATIBLE WITH AND LISTED FOR USE IN THE EXISTING PANEL BOARD AND SHALL HAVE A MINIMUM SHORT CIRCUIT AIC RATING TO MATCH THE LOWEST RATED EXISTING DEVICE IN THE PANEL.
b NEW LOAD ON EXISTING SPARE BREAKER
c EXISTING LOAD REMOVED

PANEL OPTIONS:
MAIN LUGS ONLY

NEW PANEL 'G'

MFR/MODEL: SQUARE 'D' TYPE NQ | VOLTS: 120/208V,3PH,4W | ENCLOSURE: NEMA 1 | 100 A

						VOLT-AMPS			MTG: RECESSED					
NOTE	CIRC	POLE	AMPS	SERVICE	TYPE	A	B	C	TYPE	SERVICE	AMPS	POLE	CIRC	NOTE
	1	1	20	RECP-232C, D	RECP	360 1080			RECP	RECP-A209, A209A	20	1	2	
	3	1	20	RECP-232 WITNESS, 232A	RECP		900 740		RECP	RECP-A207	20	1	4	
	5	1	20	RECP-232 JUDGE, SCRIBE	RECP			900 360	RECP	RECP-A207A WEST	20	1	6	
	7	1	20	RECP-232 FLOOR BOXES	RECP	540 360			RECP	RECP-A207A EAST	20	1	8	
	9	1	20	RECP-232 JURY, 232.1, 232B, 230	RECP		900 900		RECP	RECP-A206 WEST, NW	20	1	10	
	11	1	20	LTG -232, 232A,B,C,D, 232.1, 230	LTG			1210 720	RECP	RECP-A206 NORTH	20	1	12	
	13	1	20	RECP-A211 SERVER 1	RECP	360 900			RECP	RECP-A206 NE, A204 NW	20	1	14	
	15	1	20	SPARE			540		RECP	RECP-A210 EAST, 1206A SE	20	1	16	
	17	1	20	SPARE				740	RECP	RECP-CLERK, FLOOR BOX	20	1	18	
	19	1	20	SPARE		900			RECP	RECP-A208, A206A, A214 JUDGE SCRIBE	20	1	20	
	21	1	20	SPARE			720		RECP	RECP-A214 WITNESS	20	1	22	
	23	1	20	SPARE				640	RECP	RECP-A208 SE, A214 NORTH	20	1	24	
	25	1	20	SPARE		740			RECP	RECP-221,222,223,224	20	1	26	
	27	1	20	SPARE			1200		MISC	PRINTER	20	1	28	
	29	1	20	SPARE				360	RECP	RECP-A211 SERVER 2	20	1	30	
	31	1	20	SPARE						SPARE	20	1	32	
	33	1	20	SPARE						SPARE	20	1	34	
	35	1	20	SPARE						SPARE	20	1	36	
	37	1	-	SPACE						SPACE	-	1	38	
	39	1	-	SPACE						SPACE	-	1	40	
	41	1	-	SPACE						SPACE	-	1	42	
				TOTAL V-A		5240	5900	4930			16,070	VA		
				TOTAL AMPS		44	49	41			45	A		
				A.I.C. RATING: 10,000										

	LTG	RECP	MOTR	LG.MT	MISC	KIT	HEAT	SPEC	TOTAL	AMPS
TOTAL CONNECTED LOAD IN KVA:	1.21	13.66	0.00	0.00	1.20	0.00	0.00	0.00	16.1 KVA	45 A
DEMAND LOAD IN KVA:	1.51	11.83	0.00	0.00	1.20	0.00	0.00	0.00	14.5 KVA	40 A

PANEL NOTES:

PANEL OPTIONS:
MAIN LUGS ONLY

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
JEREMY A. MAXIE
EE-113847
6/4/23
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:
RSA
Mechanical and Electrical Consulting Engineers
670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	FS
CHECKED BY:	JAM,PCC

REVISION	DESCRIPTION	DATE

PANEL SCHEDULES

E501

IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

1" ACTUAL

EXISTING PANEL 'E' (SECTION 1)

MFR/MODEL: SQUARE 'D' TYPE NQOB | VOLTS: 120/208V,3PH,4W | ENCLOSURE: NEMA 1 | 400 A

						VOLT-AMPS								
NOTE	CIRC	POLE	AMPS	SERVICE	TYPE	A	B	C	TYPE	SERVICE	AMPS	POLE	CIRC	NOTE
	1	**1**	20	EM LTG RM 102,119,123-126						**EM LTG RM 101A, 103A, A200, A203, A204**	**20**	**1**	**2**	**a**
	3	**1**	20	EM LTG RM 128-133						**EM LTG RM 203-205,211-213**	**20**	**1**	**4**	**a**
	5	**1**	20	ASSEMBLY LIGHTS						EM LTG RM 105, 216,218	20	1	6	
	7	**1**	15	UH-13, CUH-1 RM 101,107,108						SEC. ALARM CABINET RM 122	20	1	8	
a	**9**	**1**	**20**	**UH-1,2,6,7, 119-121, 132, EF-1,2**						TBB RECP, DIALER, FACP	20	1	10	
	11	**1**	15	CUH-2, UH-16, CUH-4						FACP	20	1	12	
	13	**1**	20	RADIO SUPPLY RECP						UH-1a-4a RM 118 alt.	20	1	14	
	15	3	15	DIESEL FUEL DISP. PUMP						UH-10,11 RM 113 UH-12 RM 116	20	1	16	
	17	3	15	^^^						UH-8&9 RM 113	15	1	18	
	19	3	15	^^^						ELECTRIC RANGE	80	3	20	
	21	3	15	GASOLINE DISP. PUMP						^^^	80	3	22	
	23	3	15	^^^						^^^	80	3	24	
	25	3	15	^^^						SPACE	-	1	26	
	27	2	30	SEWER HEAT TAPE						REFRIGERATOR	15	1	28	
	29	2	30	^^						CP-1 RM 132	15	3	30	
	31	3	15	CP-3 RM 132						^^^	15	3	32	
	33	3	15	^^^						^^^	15	3	34	
	35	3	15	^^^						CP-2 RM 132 STANDBY	15	3	36	
	37	3	15	CP-4 RM 132						^^^	15	3	38	
	39	3	15	^^^						^^^	15	3	40	
	41	3	15	^^^						FREEZER	25	1	42	

PANEL NOTES:
a NEW LOAD ON EXISTING BREAKER

PANEL OPTIONS:
MAIN LUGS ONLY

EXISTING PANEL 'E' (SECTION 2)

MFR/MODEL: SQUARE 'D' TYPE NQOB | VOLTS: 120/208V,3PH,4W | ENCLOSURE: NEMA 1 | 400 A

						VOLT-AMPS								
NOTE	CIRC	POLE	AMPS	SERVICE	TYPE	A	B	C	TYPE	SERVICE	AMPS	POLE	CIRC	NOTE
	43	3	15	CP-5 RM 132 (STANDBY)						CP-6 RM 132	15	3	44	
	45	3	15	^^^						^^^	15	3	46	
	47	3	15	^^^						^^^	15	3	48	
	49	3	15	B-2 RM 132						B-1 RM 132	15	3	50	
	51	3	15	^^^						^^^	15	3	52	
	53	3	15	^^^						^^^	15	3	54	
	55	3	15	B-3 RM 132						FTP-1 RM 132	15	1	56	
	57	3	15	^^^						FTP-2 RM 132 (STANDBY)	15	1	58	
	59	3	15	^^^						FTP-3 RM 132	15	1	60	
	61	3	35	AHU-2 RM 216						MECH. CTRL PANEL	15	1	62	
	63	3	35	^^^						GTP-1 RM 132	20	1	64	
	65	3	35	^^^						UH-17 RM 301, UH-1 RM 132	20	1	66	
	67	1	15	UH-18,19,20 RM 216,217						FC-5 CRAWL SPACE	20	1	68	
	69	1	15	HF-1 RM 217						FC-1 CRAWL SPACE	20	1	70	
	71	1	20	FP JACKET WTR HTR						FC-4 CRAWL SPACE	20	1	72	
	73	1	20	FP BATTERY CHARGER						HEAT TAPE/ WATER HTR.	30	2	74	
	75	1	20	FC-2 CRAWL SPACE						^^	30	2	76	
	77	1	20	FC-3 CRAWL SPACE						CIRC PUMP #8 OLD SHOP	20	1	78	
	79	1	20	PANEL EM						JACK PUMP	25	3	80	
	81	1	20	PANEL EM						^^^	25	3	82	
	83	1	20	PANEL EM						^^^	25	3	84	

PANEL NOTES:

PANEL OPTIONS:
MAIN LUGS ONLY

EXISTING PANEL 'F'

MFR/MODEL: SQUARE 'D' TYPE NQOB | VOLTS: 120/208V,3PH,4W | ENCLOSURE: NEMA 1 | 225 A

						VOLT-AMPS								
NOTE	CIRC	POLE	AMPS	SERVICE	TYPE	A	B	C	TYPE	SERVICE	AMPS	POLE	CIRC	NOTE
	1	**1**	20	LTG-A100,A101,A102						SPARE	20	**1**	2	b
	3	**1**	20	LTG-NG A108						SPARE	20	**1**	4	b
	5	**1**	20	LTG-NG A109						SPARE	20	**1**	6	b
	7	**1**	20	SPARE						SPARE	20	**1**	8	b
	9	1	20	RECP- A101						SPARE	20	**1**	10	b
	11	**1**	20	RECP- A102, A105						SPARE	20	**1**	12	b
	13	**1**	20	RECP- A100, A102,A103						SPARE	20	**1**	14	b
a	**15**	**1**	**20**	**RECP- A100, 128 WOMEN**	**RECP**		**1080**			SPARE	20	**1**	16	b
	17	1	20	RECP- A100						SPARE	20	**1**	18	b
	19	1	20	RECP- NG A108,A109						SPARE	20	**1**	20	b
	21	**1**	20	RECP- NG A108,A111						SPARE	20	**1**	22	b
	23	**1**	20	RECP- NG A109,A111						SPARE	20	**1**	24	b
	25	**1**	20	RECP- NG A108B						SPACE	20	**1**	26	
	27	**1**	20	SUMP PUMP SP-1						SPARE	20	**1**	28	
	29	1	20	LTG, RECP- ELEV. PIT						SPACE	-	**1**	30	
	31	1	20	LTG, RECP- MACHINERM A107						SPACE	-	**1**	32	
	33	1	20	ELEVATOR CAR LIGHT						SPACE	-	**1**	34	
	35	**1**	20	ELE. MACHINE RM, EF-16						SPACE	-	**1**	36	
	37	**1**	-	SPACE						SPACE	-	**1**	38	
	39	1	-	SPACE						SPACE	-	**1**	40	
	41	1	-	SPACE						SPACE	-	**1**	42	

PANEL NOTES:
a CIRCUIT REVISED.
b LOAD REMOVED.

PANEL OPTIONS:
MAIN LUGS ONLY

BETTISWORTH NORTH

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

STATE OF ALASKA
JEREMY A. MAXIE
EE-113847
5/1/23
REGISTERED PROFESSIONAL ENGINEER

ALASKA COURT SYSTEM
KOTZEBUE COURTHOUSE CONSOLIDATION & SECURITY UPGRADES
KOTZEBUE, ALASKA

100% CONSTRUCTION DOCUMENTS

CONSULTANT:
RSA
Mechanical and Electrical Consulting Engineers
670 West Fireweed Lane, Suite 200
Anchorage, AK 99503
(907)276-0521
Corporate No.: AECC542

PROJECT NO:	M0007
DATE:	2023-05-01
DRAWN BY:	FS
CHECKED BY:	JAM,PCC

REVISION	DESCRIPTION	DATE

PANEL SCHEDULES

E502