BARTLETT REGIONAL HOSPITAL
EMERGENCY DEPARTMENT VENTILATION UPGRADES

VOLUME II OF II

Contract No. BE22-037

File No. 2108

ENGINEERING DEPARTMENT

BARTLETT REGIONAL HOSPITAL EMERGENCY DEPARTMENT VENTILATION IMPROVEMENTS

CBJ CONTRACT NO. BE22-037

FOR:

BARTLETT REGIONAL HOSPITAL
JUNEAU, ALASKA

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S001 SLAB RETROFIT DETAIL

PREPARED BY:

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Jensen Yorba Wall Inc.

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PDC ENGINEERS
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Juneau, Alaska 99801
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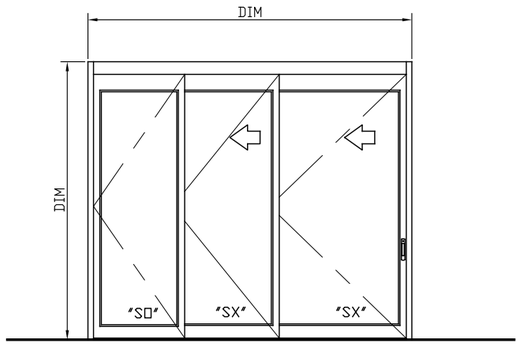
1"

DOOR TYPE



A
TELESCOPING

1. "SX" SLIDING DOOR
2. "SO" SIDELIGHT DOOR

CODE DATA

BUILDING DATA

OCCUPANCY:

LEVEL ONE	I-2
	A-2 (CAFETERIA)
LEVEL TWO	I-2
LEVEL THREE	I-2
LEVEL FOUR	I-2 (MECHANICAL)

CONSTRUCTION TYPE: 1B (SPRINKLERED)

AREA:

LEVEL ONE	45,534 sf
LEVEL TWO	57,662 sf
LEVEL THREE	35,084 sf
LEVEL FOUR	629 sf
TOTAL:	138,909 sf (NO AREA INCREASE WITH THIS PROJECT)

FIRE PROTECTION RATING OF BUILDING ELEMENTS

STRUCTURAL FRAMING:	
INCLUDING COLUMNS, GIRDERS, TRUSSES	2 HR
BEARING WALLS:	
EXTERIOR	2 HR
INTERIOR	2 HR
FLOOR CONSTRUCTION:	
INCLUDING SUPPORTING BEAMS & JOIST	2 HR
ROOF CONSTRUCTION	
INCLUDING SUPPORTING BEAMS & JOIST	
TYPICAL	1 HR
ROOF BELOW HELISTOP	2 HR
ROOF ABOVE NEW CENTRAL PLANT ADDITION	2 HR

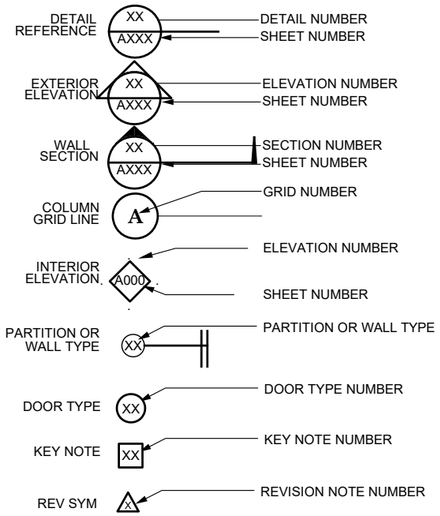
GENERAL NOTES

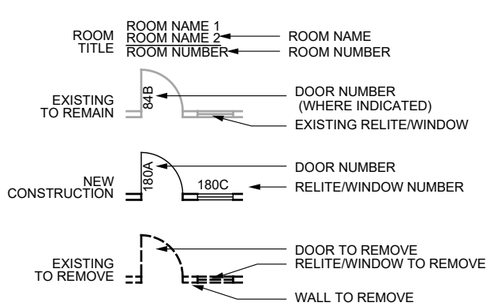
1. FIELD VERIFY ALL DIMENSIONS PRIOR TO PLACEMENT OF ORDERS
2. SEAL PERIMETER OF PARTITIONS & ALL PENETRATIONS FOR ALL WALLS & CEILINGS, TYPICAL
3. SEAL FLOOR AND ROOF PENETRATIONS FOLLOWING UL RATED TESTED ASSEMBLIES
4. PROVIDE BLOCKING FOR WALL MOUNTED FIXTURES AND ACCESSORIES, TYPICAL

ABBREVIATIONS

ACM	ASBESTOS CONTAINING MATERIAL	EJ	EXPANSION JOINT	HB	HOSE BIBB	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	SNR	SANITARY NAPKIN RECEPTACLE
ACP	ACOUSTICAL CEILING PANEL	EL	ELEVATION	HD	HAZARDOUS DRUGS			SQ	SQUARE
ADJ	ADJUSTABLE	ELEC	ELECTRICAL	HDWD	HARDWOOD	OFOI	OWNER FURNISHED OWNER INSTALLED	SS	STAINLESS STEEL
AFF	ABOVE FINISH FLOOR	ELEV	ELEVATOR	HM	HOLLOW METAL			STA	STATION
AIB	AIR INFILTRATION BARRIER	EMER	EMERGENCY	HORIZ	HORIZONTAL	OFD	OVERFLOW DRAIN	STC	SOUND TRANSMISSION CLASS
AL	ALUMINUM	ENCL	ENCLOSURE	HR	HOUR	OFF	OFFICE	STD	STANDARD
ARCH	ARCHITECTURAL	EPDM	ETHYLENE PROPYLENE DIANE MONOMER	HT	HEIGHT	OPNG	OPENING	STL	STEEL
ASB	ASBESTOS			HW	HOT WATER	OPP	OPPOSITE	STOR	STORAGE
		EPS	EXPANDED POLYSTYRENE	ID	INSIDE DIAMETER	OSB	ORIENTED STRAND BOARD	STRUCT	STRUCTURAL
BD	BOARD	EQP	EQUIPMENT	INSUL	INSULATION			SUSP	SUSPENDED
BLDG	BUILDING	EX	EXISTING	INT	INTERIOR	PL	PLATE	SY	SQUARE YARD
BLKG	BLOCKING	EXT	EXTERIOR			PLAM	PLASTIC LAMINATE		
BM	BEAM			JAN	JANITOR	PLAS	PLASTER	TB	TOWEL BAR
BOT	BOTTOM	FA	FIRE ALARM	JT	JOINT	PC	PRE-CAST	TC	TOP OF CURB
		FD	FLOOR DRAIN	LAB	LABORATORY	PF	PRE-FINISHED	TEL	TELEPHONE
CAB	CABINET	FDN	FOUNDATION	LAM	LAMINATE	PR	PAIR	TEMP	TEMPORARY
CB	CATCH BASIN	FEC	FIRE EXTINGUISHER CABINET	LAV	LAVATORY	PWD	PLYWOOD	T&G	TONGUE & GROOVE
CEM	CEMENT	FF	FINISH FLOOR	LT	LIGHT			TOC	TOP OF CONCRETE
CG	CORNER GUARD	FHC	FIRE HOSE CABINET			R	RISER	TOD	TOP OF DECK
CLG	CEILING	FIN	FINISH	MIR	MIRROR	RAD	RADIUS	TPD	TOILET PAPER DISPENSER
COL	COLUMN	FLASH	FLASHING	MAX	MAXIMUM	RD	ROOF DRAIN	TRD	TREAD
CONC	CONCRETE	FLR	FLOOR	MECH	MECHANICAL	REFR	REFRIGERATOR	TRTD	PRESSURE TREATED
CONT	CONTINUOUS	FOC	FACE OF CONCRETE/CURB	MEMB	MEMBRANE	REINF	REINFORCED	TOW	TOP OF WALL
CTR	CENTER	FOF	FACE OF FINISH	MFR	MANUFACTURER	REQ	REQUIRED	TYP	TYPICAL
		FOS	FACE OF STUD	MH	MANHOLE	RESIL	RESILIENT		
DBL	DOUBLE	FRP	(GLASS) FIBER REINFORCED PLASTIC	MIN	MINIMUM	RH	ROBE HOOK	UNF	UNFINISHED
DEPT	DEPARTMENT			MISC	MISCELLANEOUS	RL	RAIN LEADER	UON	UNLESS OTHERWISE NOTED
DF	DRINKING FOUNTAIN	FR	FIRE RETARDANT	MTD	MOUNTED	RM	ROOM	UR	URINAL
DET	DETAIL	FT	FOOT OR FEET	MTL	METAL	RO	ROUGH OPENING		
DIA	DIAMETER	FTG	FOOTING	MUL	MULLION	RUB	RUBBER	VERT	VERTICAL
DISP	DISPENSER	FURR	FURRING					VEST	VESTIBULE
DN	DOWN			NIC	NOT IN CONTRACT	SASU	SELF ADHERING SHEET UNDERLAYMENT	VR	VAPOR RETARDER
DR	DOOR	GA	GAUGE	NO OR #	NUMBER	SCD	SEAT COVER DISPENSER	VTR	VENT THROUGH ROOF
DS	DOWNSPOUT	GALV	GALVANIZED	NOM	NOMINAL	SFRM	SPRAYED FIRE-RESISTIVE MATERIAL	WB	WEATHER BARRIER
DWG	DRAWING	GB	GRAB BAR	NTS	NOT TO SCALE			WC	WATER CLOSET
DWR	DRAWER	GL	GLASS			SHR	SHOWER	WD	WOOD
		GWB	GYPSUM WALL BOARD	OA	OVERALL	SHTH	SHEATHING	WP	WATERPROOF
EA	EACH	GYP	GYPSUM	OC	ON CENTER	SIM	SIMILAR	WR	WASTE RECEPTACLE
EF	EXHAUST FAN			OD	OUTSIDE DIAMETER	SND	SANITARY NAPKIN DISPENSER	WSCT	WAINSCOT

SYMBOLS





No.	Date	Item
REVISIONS		

CONSULTANT :
Jensen Yorba Wall Inc.

STATE OF ALASKA 49TH
COREY A. WALL
Jul. 2, 21
NO. A 12834
REGISTERED PROFESSIONAL ARCHITECT

PDC ENGINEERS
PLAN • DESIGN • CONSTRUCT
A RESPEC COMPANY
2700 Gambell St. Ste. 500, Anchorage, AK 99503
907.743.3200 | AECC6605

PROJECT :
BARTLETT ED VENTILATION IMPROVEMENTS
JUNEAU, ALASKA

SHEET TITLE :
SCHEDULES / CODE DATA
CONSTRUCTION DOCUMENTS

DESIGN	
DRAWN	DF
CHECKED	CW
DATE	05/11/2021
PROJECT No.	21010JN
SHEET NUMBER	A-001

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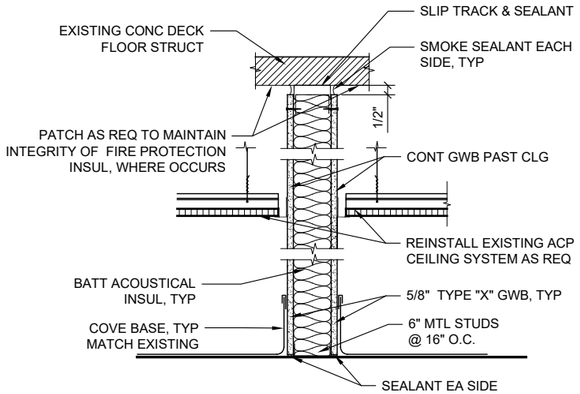
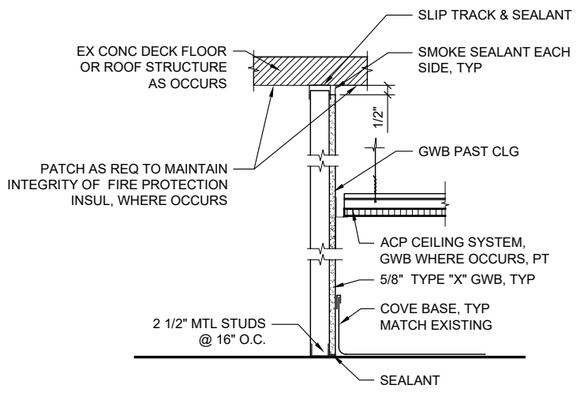
PARTITION SCHEDULE



A TYP PARTITION



B PARTITION

PARTITION NOTES

1. PARTITIONS TO BE PARTITION TYPE A, UON.
2. ALL INTERIOR STUDS TO 12' HIGH TO BE 20 GAGE MIN, 16 INCHES OC, UON. STUD PARTITIONS ABOVE 12' HIGH TO BE 18 GA MIN.
3. ALL PARTITIONS TO BE FULL HT FROM SLAB TO UNDERSIDE OF DECK ABOVE, UON.
4. GWB SHALL BE 5/8", TYPE X UON.
5. INSTALL BLKG & BACKING PLATES AT CASEWORK, EQUIPMENT, ACCESSORIES, ETC.

PHASING

1. COORDINATE ALL WORK WITH ELECT AND MECH.
2. SEE ENLARGED PLANS A-401, A-402, A-403 AND A-601 FOR ADDITIONAL ICRA (INFECTION CONTROL RISK ASSESSMENT) REQUIREMENTS.

PHASE 1 DEMO - TRAUMA BAY 2, TEMP C3 ENCLOSURE. (TRAUMA BAY 1 OPEN)
MECH DEMO - UTILIZE HEPA CART FOR MECH WORK AND WORK ABOVE CEILING.
CORE DRILL FLOOR ABOVE FOR MECH WORK EXHAUST DUCTS.

PHASE 1 RENO - TRAUMA BAY 2, TEMP C3 ENCLOSURE. (TRAUMA BAY 1 OPEN)
MECH DEMO - UTILIZE HEPA CART FOR MECH WORK AND WORK ABOVE CEILING.
INSTALL RETURN AIR GRILLE. STUB RETURN GRILLE DUCT TOWARDS TRAUMA BAY 1.
INSTALL EXHAUST AIR DUCT THROUGH FLOOR AND STUB TOWARDS TRAUMA BAY 1.

PHASE 2 DEMO WORK - TRAUMA BAY 1, TEMP C3 (TRAUMA BAY 2 OPEN)
ARCH C1 WALL & C2 DOOR ERECTION - UTILIZE HEPA CART FOR WORK.
REMOVE EXISTING RETURN AIR GRILLE AND DUCT.

PHASE 2 RENO WORK - TRAUMA BAY 1, TEMP C1 & C2 ENCLOSURE. (TRAUMA BAY 2 OPEN)
MECH AND ARCH RENO - UTILIZE HEPA CART FOR MECH WORK AND WORK ABOVE CEILING.
INSTALL RELOCATED CEILING TILE.
INSTALL REMAINING EXHAUST GRILLES AND EXHAUST DUCT TIE-IN.
INSTALL WALL FRAMING AND TELESCOPING DOORS.
EXTEND SPRINKLER BRANCH LINE AS REQUIRED.

PHASE 2 DEMO WORK - TRAUMA BAY 1, TEMP C2 (TRAUMA BAY 2 OPEN)
ARCH C1 WALL & C2 DOOR DEMOLITION - UTILIZE HEPA CART FOR WORK.
REMOVE TEMP C1 & C2 ENCLOSURE.

SCHEDULES

FINISH SCHEDULE

ROOM No.	Name	FLOOR	BASE	Ht.	WAINSCOT	Ht.	WALLS North	East	South	West	CEILING	NOTES
1409A	ED TRAUMA BAY 1	EX SV	EX SVC				PT	PT	EX PT	PT	EX ACP	
1409B	ED TRAUMA BAY 2	EX SV	EX SVC				EX PT	EX PT	PT	PT	EX ACP	
2748	OB EQUIP STOR	EX SV	EX RUB	4"			EX PT	EX PT	EX PT	EX PT	EX ACP	
3133	MH LAUNDRY/LINEN	EX SV	EX SVC				EX PT	EX PT	EX PT	EX PT	EX GWB	

GENERAL NOTES:
PATCH EXISTING FINISHES WHERE MECH WORK OCCURS TO MATCH ADJACENT SURFACE, TYP

ABBREVIATIONS:

CPT	CARPET
EX	EXISTING
PT	PAINT
RUB	RUBBER BASE
SV	SHEET VINYL
SVC	SHEET VINYL COVE

DOOR AND RELITE SCHEDULE

OPENING No.	Type	Size	DOOR Mat	Fin	FRAME Mat	Fin	GLASS	SIGNAGE Type	Text	RATING	DETAILS Head	Jamb	Sill	HW	REMARKS
1409A-1	A	10'-0"x7'-4"	AL	AL	AL	AL	TEMP			N/A	4/A-901	1/A-901	4/A-901		
1409A-2	A	11'-4"x7'-4"	AL	AL	AL	AL	TEMP			N/A	4/A-901	1/A-901	4/A-901		

ABBREVIATIONS:

H	HEIGHT	PT	PAINT
HC	HOLLOW CORE	SC	SOLID CORE
HDWR	HARDWARE	W	WIDE
HM	HOLLOW METAL		

No.	Date	Item
REVISIONS		

CONSULTANT :
Jensen Yorba Wall Inc.

STATE OF ALASKA 49TH
COREY A. WALL
Jul. 2, '21
NO. A 12834
REGISTERED PROFESSIONAL ARCHITECT

PDC ENGINEERS
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A BESPEC COMPANY
2700 Gambell St. Ste. 500, Anchorage, AK 99503
907.743.3200 | AECC605

PROJECT :
BARTLETT ED VENTILATION IMPROVEMENTS
JUNEAU, ALASKA

SHEET TITLE :
PARTITION SCHED/ ABBREVIATIONS
SYMBOLS / GENERAL NOTES
PHASING
CONSTRUCTION DOCUMENTS

DESIGN
DRAWN DF
CHECKED CW
DATE 05/11/2021
PROJECT No. 21010JN
SHEET NUMBER
A-002

1"

IF THIS BAR DOES NOT MEASURE EXACTLY ONE INCH, THE SCALE OF THIS DRAWING HAS BEEN ALTERED DURING IT'S PRODUCTION. AFFECTING ALL LABELED SCA

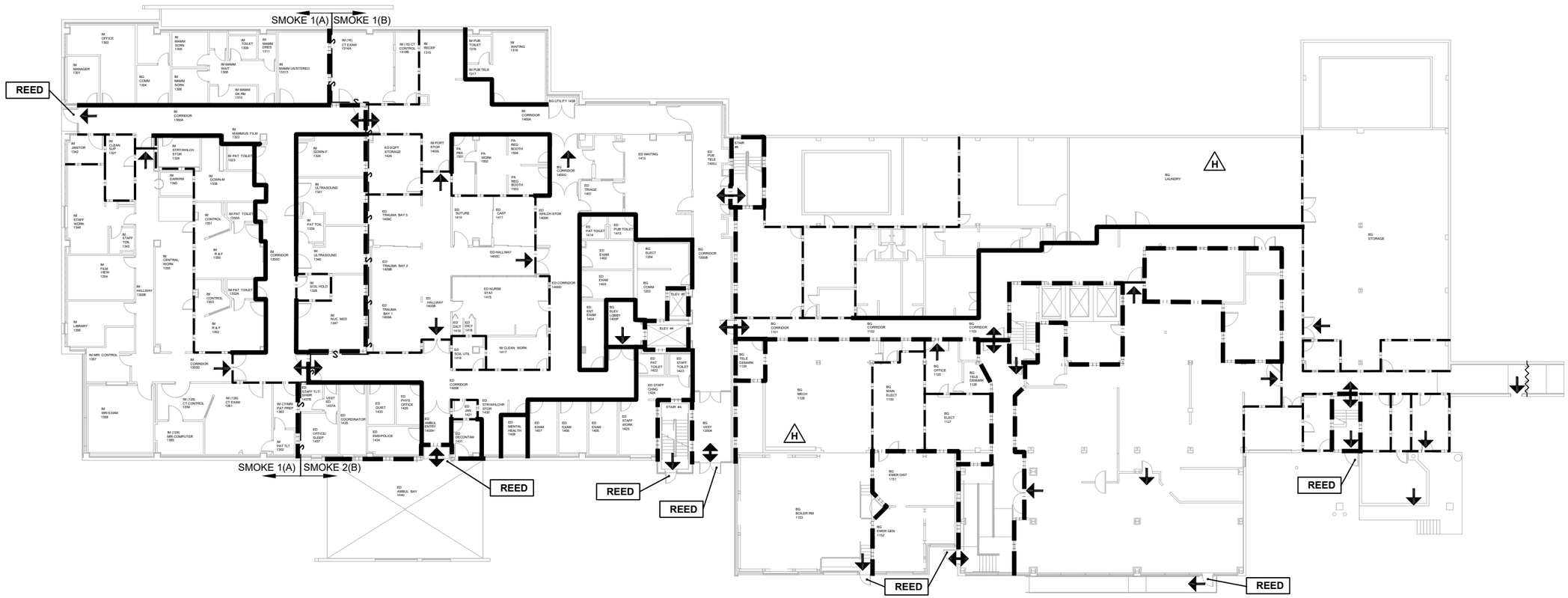
SYMBOLS KEY

- 4 HR. WALL:
- 2 HR. WALL:
- 1 HR. WALL:
- CORRIDOR WALL:
- SMOKE PARTITION: S — S
- EXIT ONLY:
- BOTH EXIT AND ENTRY:
- HAZARDOUS AREAS (NFPA 101, 19.3.2.1): H
- REQUIRED EXIT STAIR: RES
- REQUIRED EXIT DOOR: REED

LEVEL ONE CODE DATA

BUILDING ZONE	OCCUPANCY	CONSTRUCTION TYPE	AREA SUBTOTALS(SF)	AREA TOTALS(SF)	OCC. LOAD SUBTOTALS	OCC. LOAD TOTALS
SMOKE COMPARTMENT 1(A)	I-2	1B(SPRINKLED)		9381		95
SMOKE COMPARTMENT 1(B)	I-2	1B(SPRINKLED)		12200		119
AMBULANCE BAY	*I-2	1B(SPRINKLED)		**1162	**6	
CENTRAL PLANT	B	1B(SPRINKLED)		4253		15
EXISTING (TYP)	B	1B(SPRINKLED)		17637		177
EXISTING (CAFETERIA)	***A-2	1B(SPRINKLED)		2063		138
LEVEL ONE TOTALS				45534		544

* AMBULANCE BAY INCIDENTAL USE PER IBC 302.1.1
** AMBULANCE BAY AREA & OCCUPANT LOAD NOT INCLUDED IN BUILDING TABULATIONS.
*** CAFETERIA BUILT UNDER 1997 UBC AS TYPE A-3 OCCUPANCY.



1 FIRST FLOOR - LIFE SAFETY PLAN

SCALE: 0 8' 16' 32'

CONSULTANT :
Jensen Yorba Wall Inc.

STATE OF ALASKA
49TH
COREY A. WALL
Jul. 2, 21
NO. A 12834
REGISTERED PROFESSIONAL ARCHITECT

PDC ENGINEERS
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2700 Gambell St. Ste. 500, Anchorage, AK 99503
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PROJECT :
BARTLETT ED VENTILATION IMPROVEMENTS
JUNEAU, ALASKA

SHEET TITLE :
FIRST FLOOR
LIFE SAFETY PLAN
CONSTRUCTION DOCUMENTS

DESIGN	DF
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CHECKED	
DATE	05/11/2021

PROJECT No.
21010JN

SHEET NUMBER
A-101

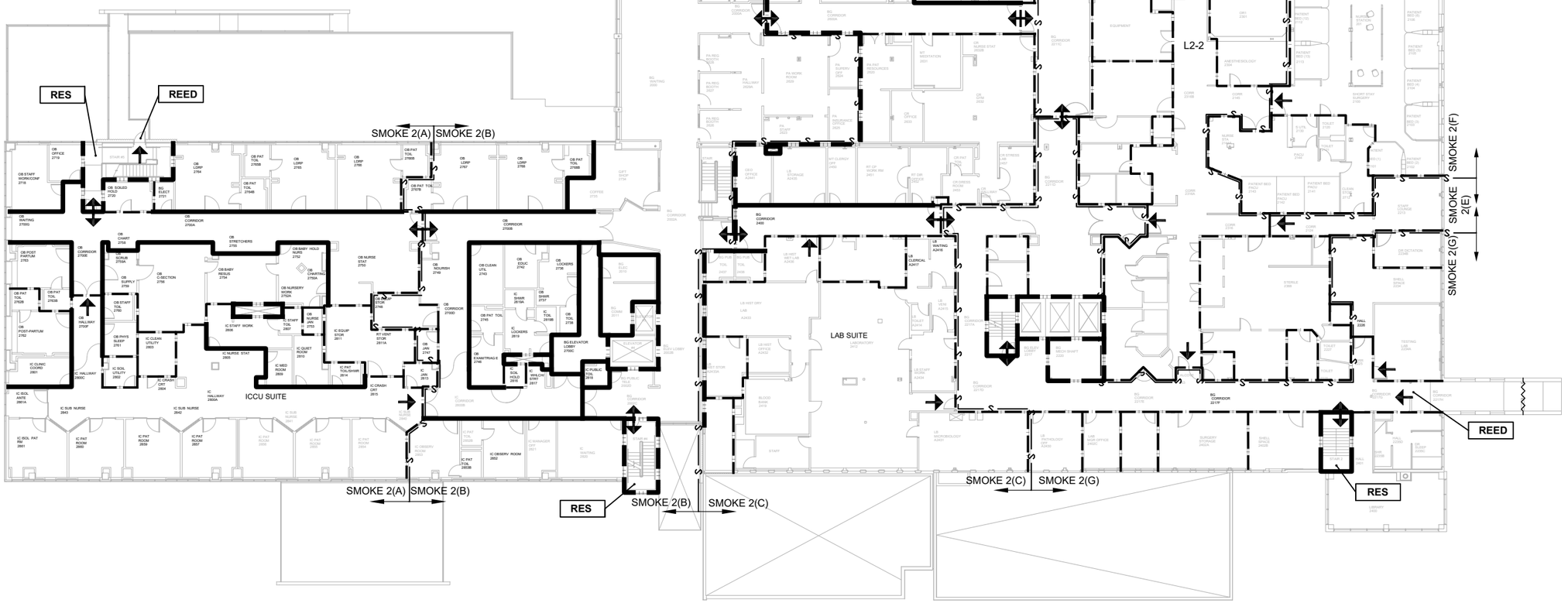
No.	Date	Item
REVISIONS		

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

1"

SYMBOLS KEY

4 HR. WALL:	
2 HR. WALL:	
1 HR. WALL:	
CORRIDOR WALL:	
SMOKE PARTITION:	S S
EXIT ONLY:	
BOTH EXIT AND ENTRY:	
HAZARDOUS AREAS (NFPA 101, 19.3.2.1):	H
REQUIRED EXIT STAIR:	RES
REQUIRED EXIT DOOR:	REED



1 **SECOND FLOOR - LIFE SAFETY PLAN**

SCALE: 0 8' 16' 32'

CONSULTANT :

Jensen Yorba Wall Inc.

STATE OF ALASKA
49 TH
COREY A. WALL
Jul. 2, 21
NO. A 12834
REGISTERED PROFESSIONAL ARCHITECT

PDC ENGINEERS
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PROJECT :
BARTLETT ED VENTILATION IMPROVEMENTS
JUNEAU, ALASKA

SHEET TITLE :
SECOND FLOOR
LIFE SAFETY PLAN

CONSTRUCTION DOCUMENTS

DESIGN	
DRAWN	DF
CHECKED	CW
DATE	05/11/2021

PROJECT No.
21010JN

SHEET NUMBER
A-102

No.	Date	Item

REVISIONS

1"

IF THIS BAR DOES NOT MEASURE EXACTLY ONE INCH, THE SCALE OF THIS DRAWING HAS BEEN ALTERED DURING IT'S PRODUCTION, AFFECTING ALL LABELED SCA

LEVEL THREE CODE DATA

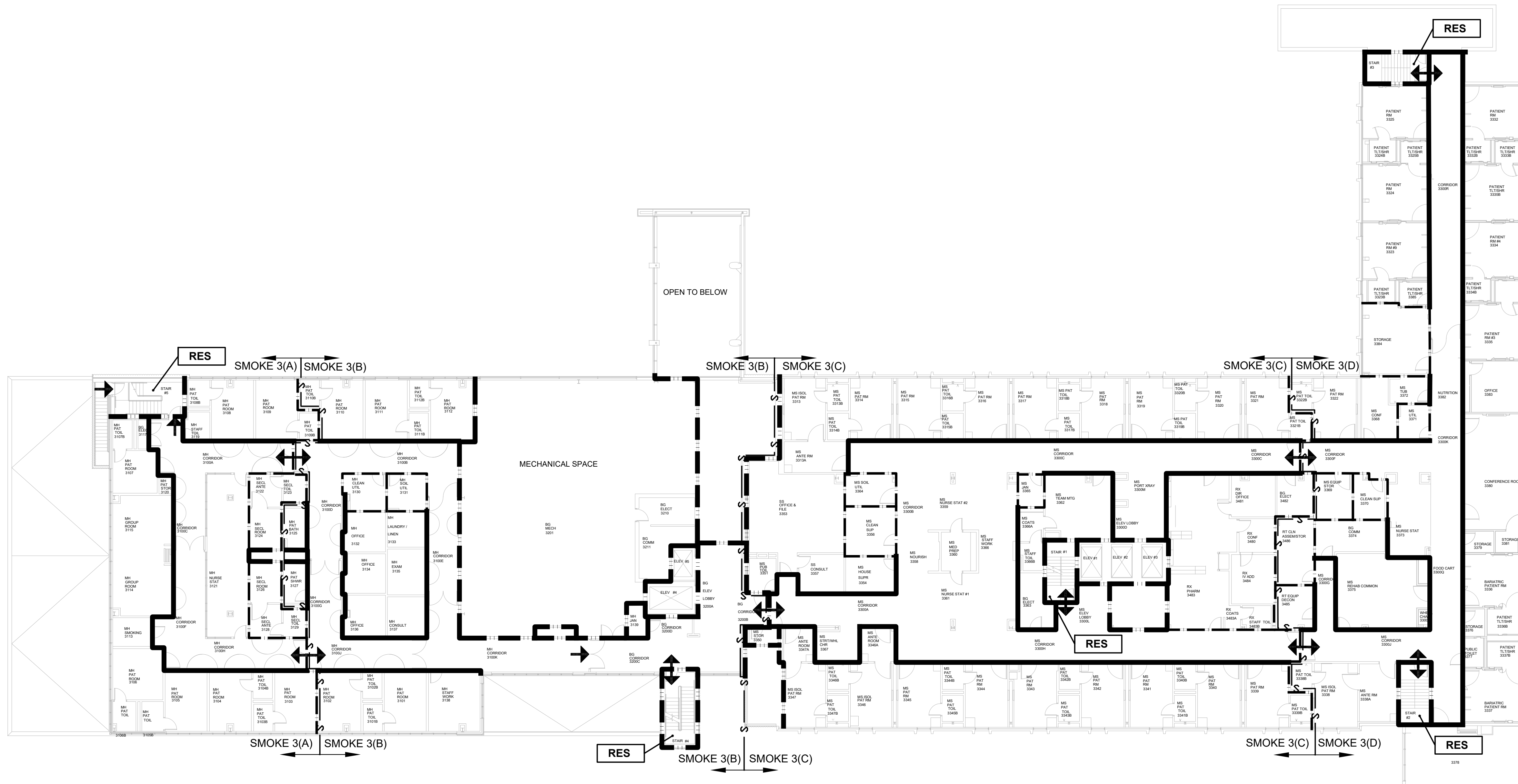
BUILDING ZONE	OCCUPANCY	CONSTRUCTION TYPE	AREA SUBTOTALS(SF)	AREA TOTALS(SF)	OCC. LOAD SUBTOTALS	OCC. LOAD TOTALS
SMOKE COMPARTMENT 3(A)	I-2	1B(SPRINKLED)		4400		27
SMOKE COMPARTMENT 2(B)	I-2	1B(SPRINKLED)				
MECHANICAL AREA			3382		12	
OTHER AREAS			5610		23	
TOTAL-3(CB				8992		35
SMOKE COMPARTMENT 3(C)	I-2	1B(SPRINKLED)		12341		70
SMOKE COMPARTMENT 3(D)	I-2	1B(SPRINKLED)		9351		56
LEVEL THREE TOTALS				35084		188

SMOKE COMPARTMENT REFUGE AREA DATA

SMOKE COMP	REFUGE AREA AVAILABLE(SF)	REQUIRED COMBINED REFUGE AREAS OF ADJACENT SMOKE COMPARTMETNS			
		3A/3B	3B/3C	3C/3D	3D/3E
3(A)	*1000	660			
3(B)	*2353	660	1182		
3 (C)	7123		1182	1962	
3(D)	5732			1962	

* CALCULATED AVAILABLE REFUGE AREA INCLUDES CORRIDOR AREAS ONLY

FOR SMOKE COMPARTMENTS 3(A) & 3(B)



1 THIRD FLOOR - LIFE SAFETY PLAN

SCALE: 0 8' 16' 32'

CONSULTANT : Jensen Yorba Wall Inc.

STATE OF ALASKA 49TH COREY A. WALL Jul. 2, 21 NO. A 12834 REGISTERED PROFESSIONAL ARCHITECT

PDC ENGINEERS PLAN • DESIGN • CONSTRUCT A RESPEC COMPANY 2700 Gambell St. Ste. 500, Anchorage, AK 99503 907.743.3200 | AECC605

PROJECT : BARTLETT ED VENTILATION IMPROVEMENTS

JUNEAU, ALASKA

SHEET TITLE : THIRD FLOOR LIFE SAFETY PLAN

CONSTRUCTION DOCUMENTS

DESIGN	
DRAWN	DF
CHECKED	CW
DATE	05/11/2021

PROJECT No. 21010JN

SHEET NUMBER A-103

No.	Date	Item

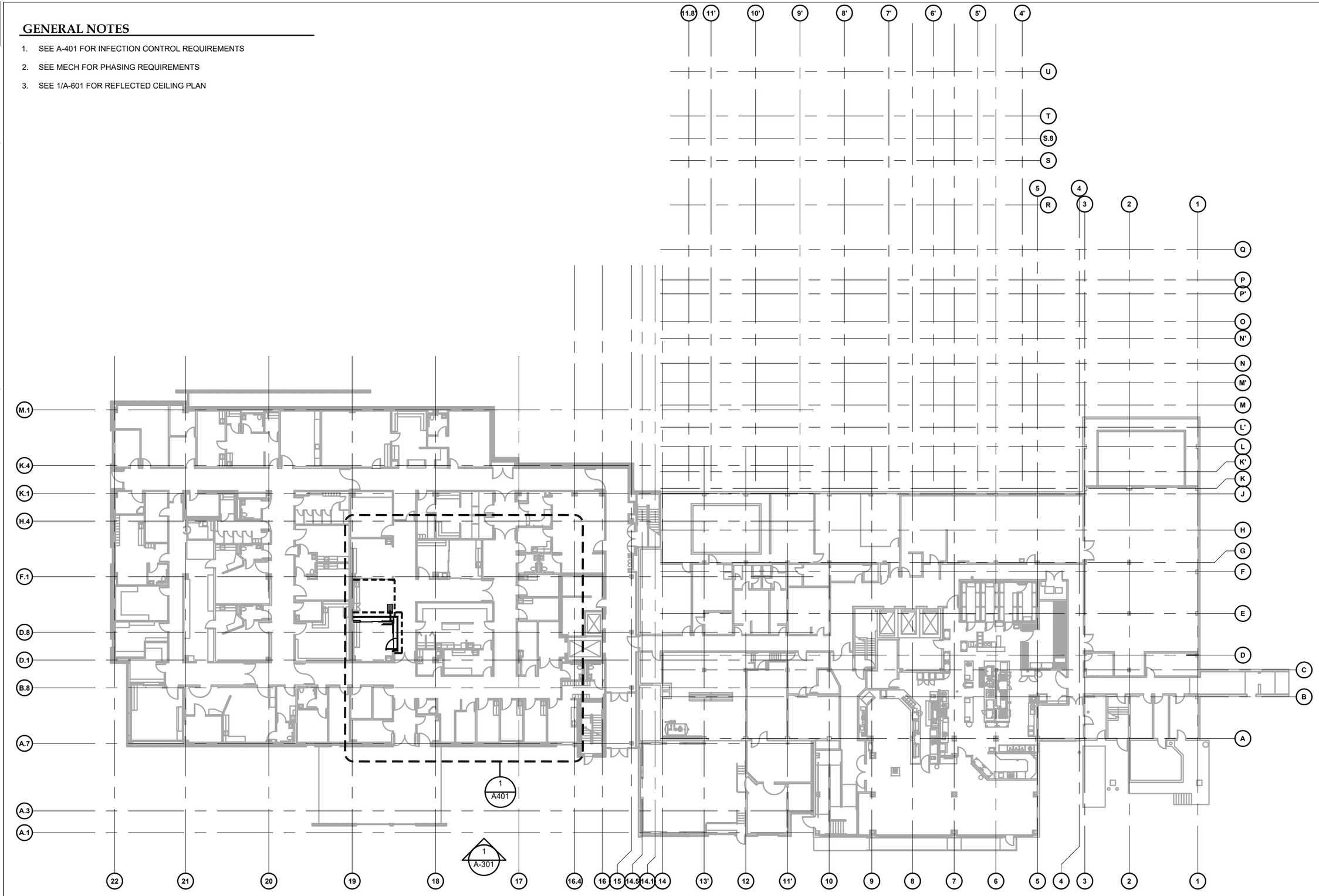
REVISIONS

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

1"

GENERAL NOTES

1. SEE A-401 FOR INFECTION CONTROL REQUIREMENTS
2. SEE MECH FOR PHASING REQUIREMENTS
3. SEE 1/A-601 FOR REFLECTED CEILING PLAN



1 FIRST FLOOR OVERALL PLAN

SCALE: 0 8' 16' 32'

CONSULTANT :
Jensen Yorba Wall Inc.

STATE OF ALASKA
49TH
COREY A. WALL
Jul. 2, 21
NO. A 12834
REGISTERED PROFESSIONAL ARCHITECT

PDC ENGINEERS
PLAN • DESIGN • CONSTRUCT
A RESPEC COMPANY
2700 Gambell St. Ste. 500, Anchorage, AK 99503
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PROJECT :
BARTLETT ED VENTILATION IMPROVEMENTS
JUNEAU, ALASKA

SHEET TITLE :
FIRST FLOOR OVERALL PLAN
CONSTRUCTION DOCUMENTS

DESIGN	
DRAWN	DF
CHECKED	CW
DATE	05/11/2021

PROJECT No.
21010JN

SHEET NUMBER
A-201

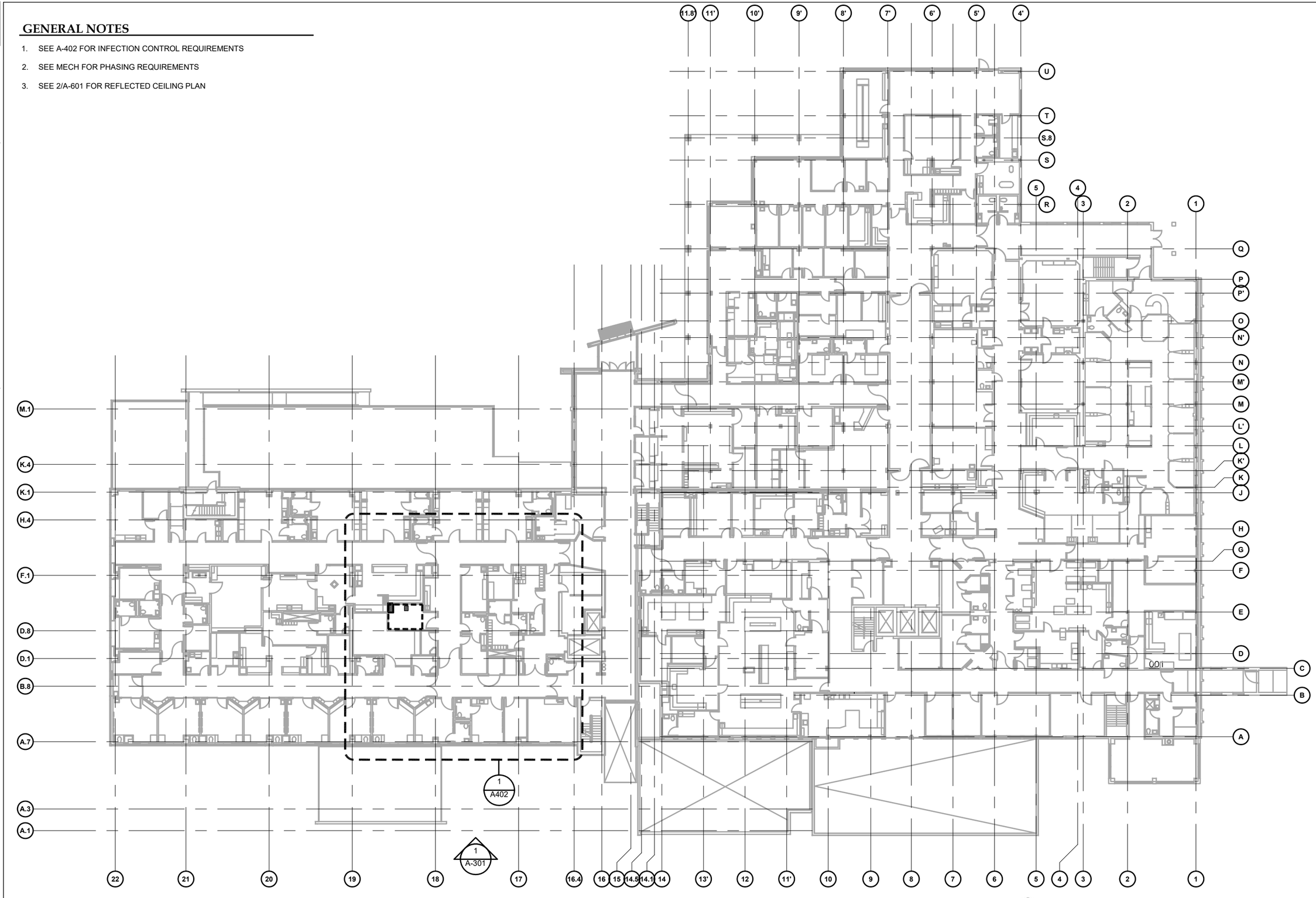
No.	Date	Item
REVISIONS		

IF THIS BAR DOES NOT MEASURE EXACTLY ONE INCH, THE SCALE OF THIS DRAWING HAS BEEN ALTERED DURING IT'S PRODUCTION. AFFECTING ALL LABELED SCA

1"

GENERAL NOTES

1. SEE A-402 FOR INFECTION CONTROL REQUIREMENTS
2. SEE MECH FOR PHASING REQUIREMENTS
3. SEE 2/A-601 FOR REFLECTED CEILING PLAN



1 SECOND FLOOR OVERALL PLAN

SCALE: 0 8' 16' 32'

CONSULTANT :
Jensen Yorba Wall Inc.

STATE OF ALASKA
49TH
COREY A. WALL
Jul. 2, 21
NO. A 12834
REGISTERED PROFESSIONAL ARCHITECT

PDC ENGINEERS
PLAN • DESIGN • CONSTRUCT
A RESPEC COMPANY
2700 Gambell St. Ste. 500, Anchorage, AK 99503
907.743.3200 | AECC605

PROJECT :
BARTLETT ED VENTILATION IMPROVEMENTS
JUNEAU, ALASKA

SHEET TITLE :
SECOND FLOOR OVERALL PLAN

CONSTRUCTION DOCUMENTS

DESIGN	DF
DRAWN	CW
CHECKED	
DATE	05/11/2021

PROJECT No.
21010JN

SHEET NUMBER
A-202

No.	Date	Item

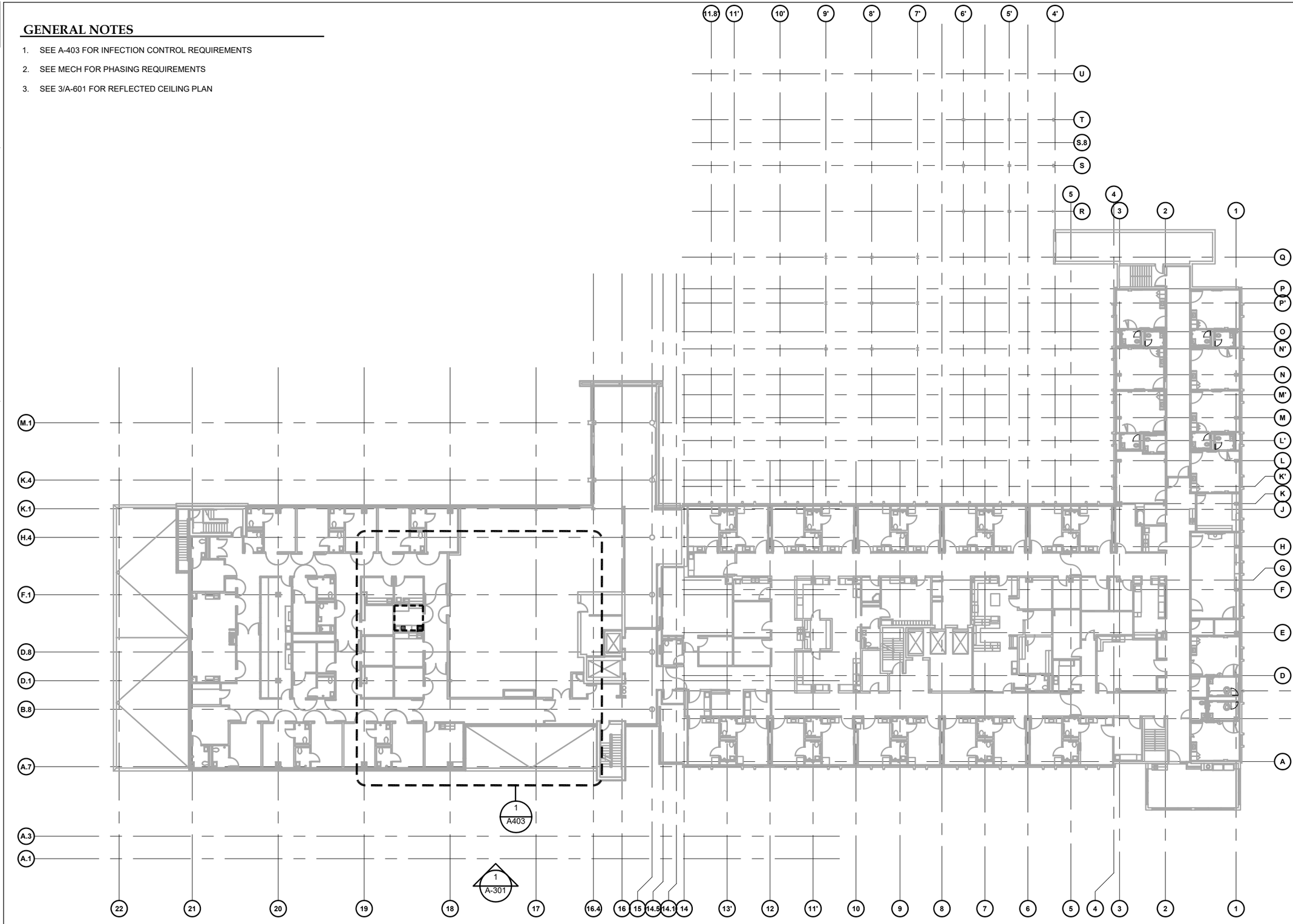
REVISIONS

IF THIS BAR DOES NOT MEASURE EXACTLY ONE INCH, THE SCALE OF THIS DRAWING HAS BEEN ALTERED DURING IT'S PRODUCTION. AFFECTING ALL LABELED SCA

1"

GENERAL NOTES

1. SEE A-403 FOR INFECTION CONTROL REQUIREMENTS
2. SEE MECH FOR PHASING REQUIREMENTS
3. SEE 3/A-601 FOR REFLECTED CEILING PLAN



1 THIRD FLOOR OVERALL PLAN

SCALE: 0 8' 16' 32'

No.	Date	Item
REVISIONS		

CONSULTANT :

Jensen Yorba Wall Inc.

STATE OF ALASKA
49 TH
COREY A. WALL
Jul. 2, 21
NO. A 12834
REGISTERED PROFESSIONAL ARCHITECT

PDC ENGINEERS
PLAN • DESIGN • CONSTRUCT
A RESPEC COMPANY
2700 Gambell St. Ste. 500, Anchorage, AK 99503
907.743.3300 | AECC605

PROJECT :
BARTLETT ED VENTILATION IMPROVEMENTS
JUNEAU, ALASKA

SHEET TITLE :
THIRD FLOOR OVERALL PLAN

CONSTRUCTION DOCUMENTS

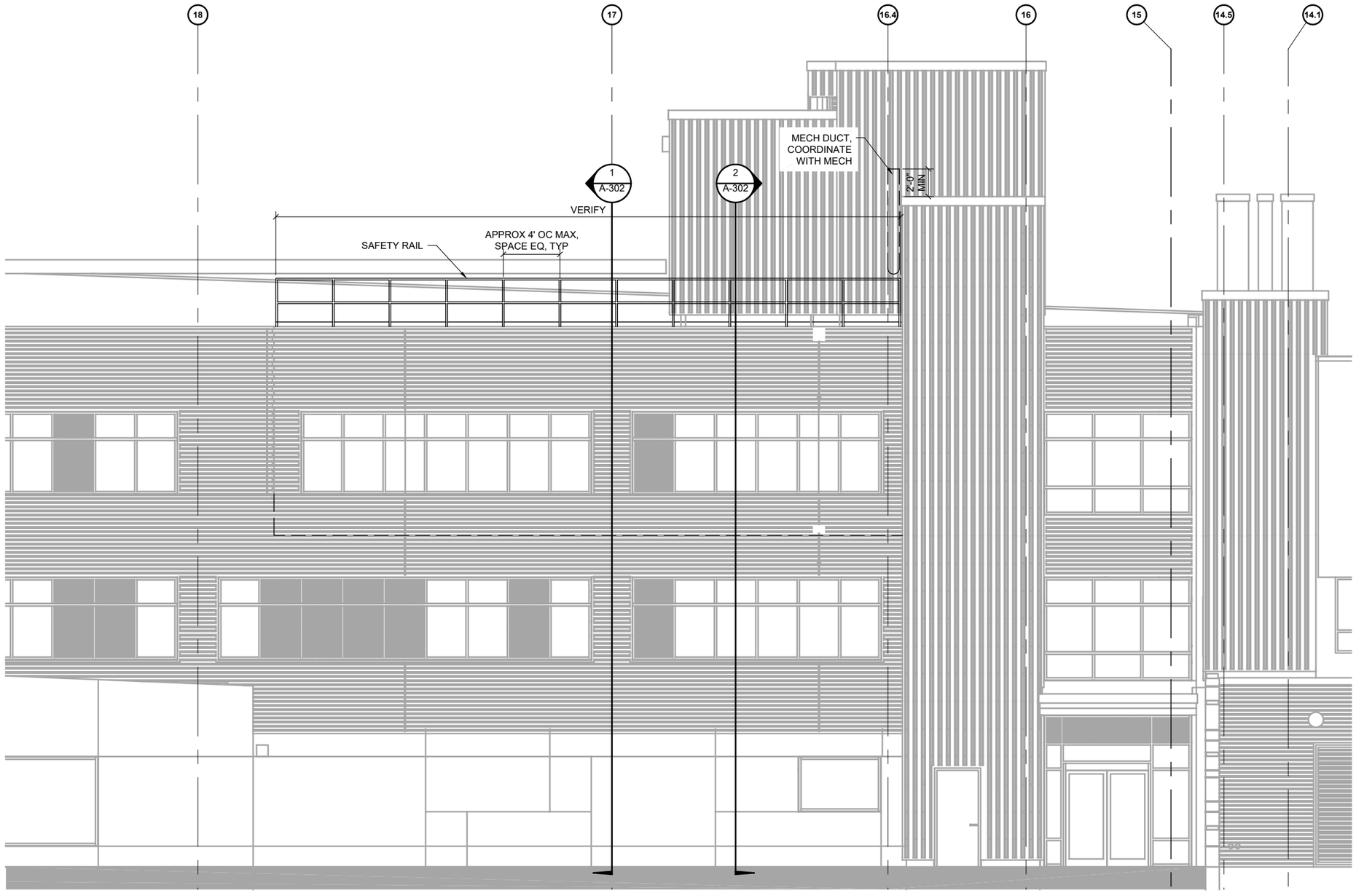
DESIGN	DF
DRAWN	CW
CHECKED	
DATE	05/11/2021

PROJECT No.
21010JN

SHEET NUMBER
A-203

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

1"



1 **ENLARGED ELEVATION**

SCALE: 0 2' 4' 8'

CONSULTANT :

Jensen Yorba Wall Inc.

STATE OF ALASKA
49 TH
COREY A. WALL
Jul. 2, 21
NO. A 12834
REGISTERED PROFESSIONAL ARCHITECT

PDC ENGINEERS
PLAN • DESIGN • CONSTRUCT
A RESPEC COMPANY
2700 Gambell St. Ste. 500, Anchorage, AK 99503
907.743.3300 | AECC605

PROJECT :
BARTLETT ED VENTILATION IMPROVEMENTS
JUNEAU, ALASKA

SHEET TITLE :
ENLARGED ELEVATION
CONSTRUCTION DOCUMENTS

DESIGN	
DRAWN	DP
CHECKED	CW
DATE	05/11/2021

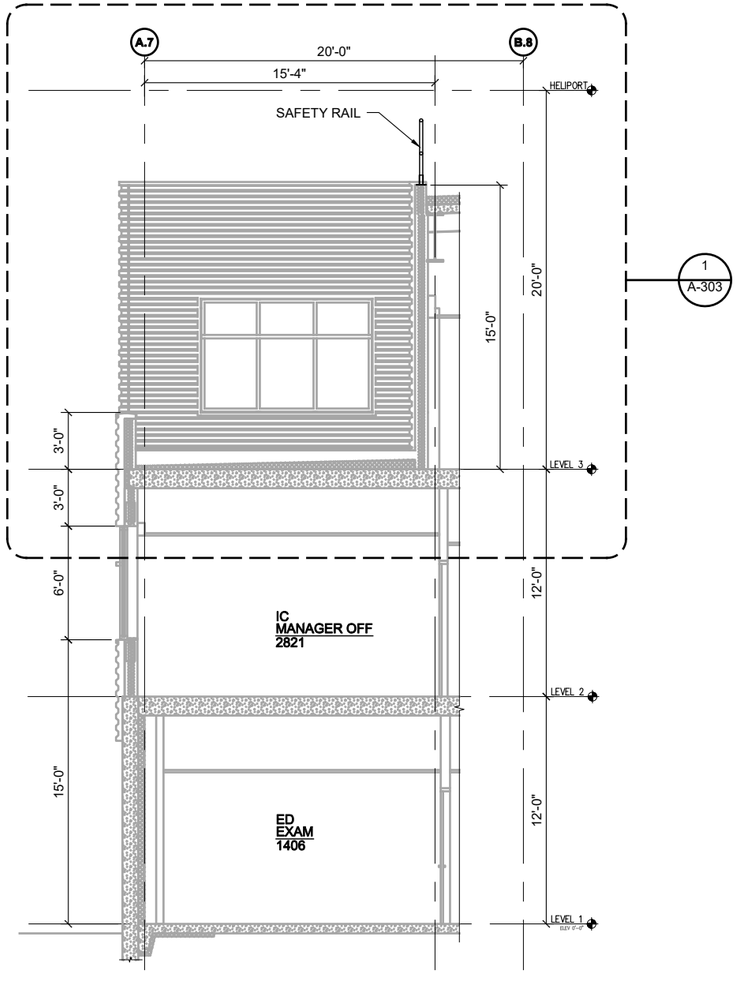
PROJECT No.
21010JN

SHEET NUMBER
A-301

No.	Date	Item
REVISIONS		

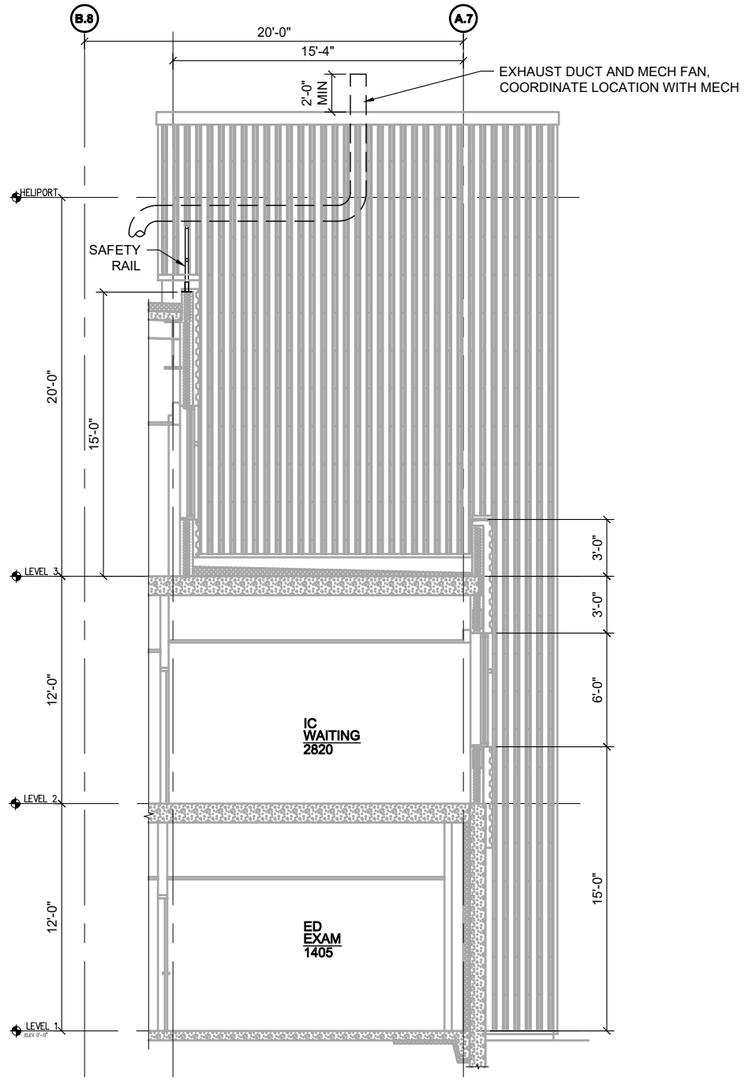
IF THIS BAR DOES NOT MEASURE EXACTLY ONE INCH, THE SCALE OF THIS DRAWING HAS BEEN ALTERED DURING IT'S PRODUCTION. AFFECTING ALL LABELED SCA

1"



1 **WALL SECTION**

SCALE: 0 2' 4' 8'



2 **WALL SECTION**

SCALE: 0 2' 4' 8'

CONSULTANT :

Jensen Yorba Wall Inc.

STATE OF ALASKA
49TH
COREY A. WALL
Jul. 2, 21
NO. A 12834
REGISTERED PROFESSIONAL ARCHITECT

PDC ENGINEERS
PLAN • DESIGN • CONSTRUCT
A RESPEC COMPANY
2700 Gambell St. Ste. 500, Anchorage, AK 99503
907.743.3200 | AECC605

PROJECT :
BARTLETT ED VENTILATION
IMPROVEMENTS
JUNEAU, ALASKA

SHEET TITLE :
WALL SECTIONS

CONSTRUCTION DOCUMENTS

DESIGN	
DRAWN	DF
CHECKED	CW
DATE	05/11/2021

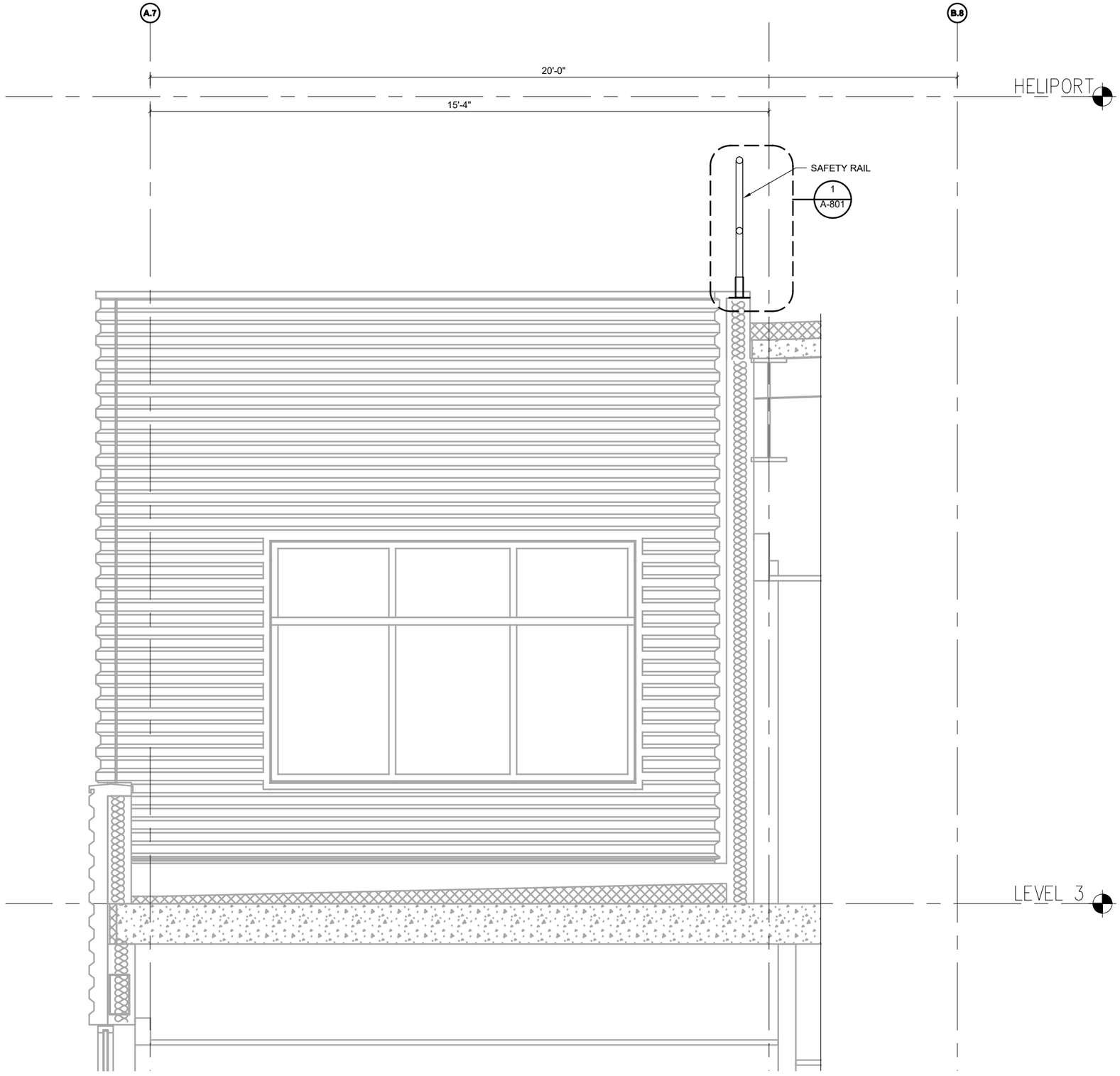
PROJECT No.
21010JN

SHEET NUMBER
A-302

No.	Date	Item
REVISIONS		

IF THIS BAR DOES NOT MEASURE EXACTLY ONE INCH, THE SCALE OF THIS DRAWING HAS BEEN ALTERED DURING IT'S PRODUCTION. AFFECTING ALL LABELED SCA

1"



1 **ENLARGED WALL SECTION**

SCALE: 0 6" 1' 2' 4'

CONSULTANT :

Jensen Yorba Wall Inc.

STATE OF ALASKA
49 TH
COREY A. WALL
Jul. 2, 21
NO. A 12834
REGISTERED PROFESSIONAL ARCHITECT

PDC ENGINEERS
PLAN • DESIGN • CONSTRUCT
A RESPEC COMPANY
2700 Gambell St. Ste. 500, Anchorage, AK 99503
907.743.3200 | AECC605

PROJECT :
BARTLETT ED VENTILATION IMPROVEMENTS
JUNEAU, ALASKA

SHEET TITLE :
ENLARGED WALL SECTION

CONSTRUCTION DOCUMENTS

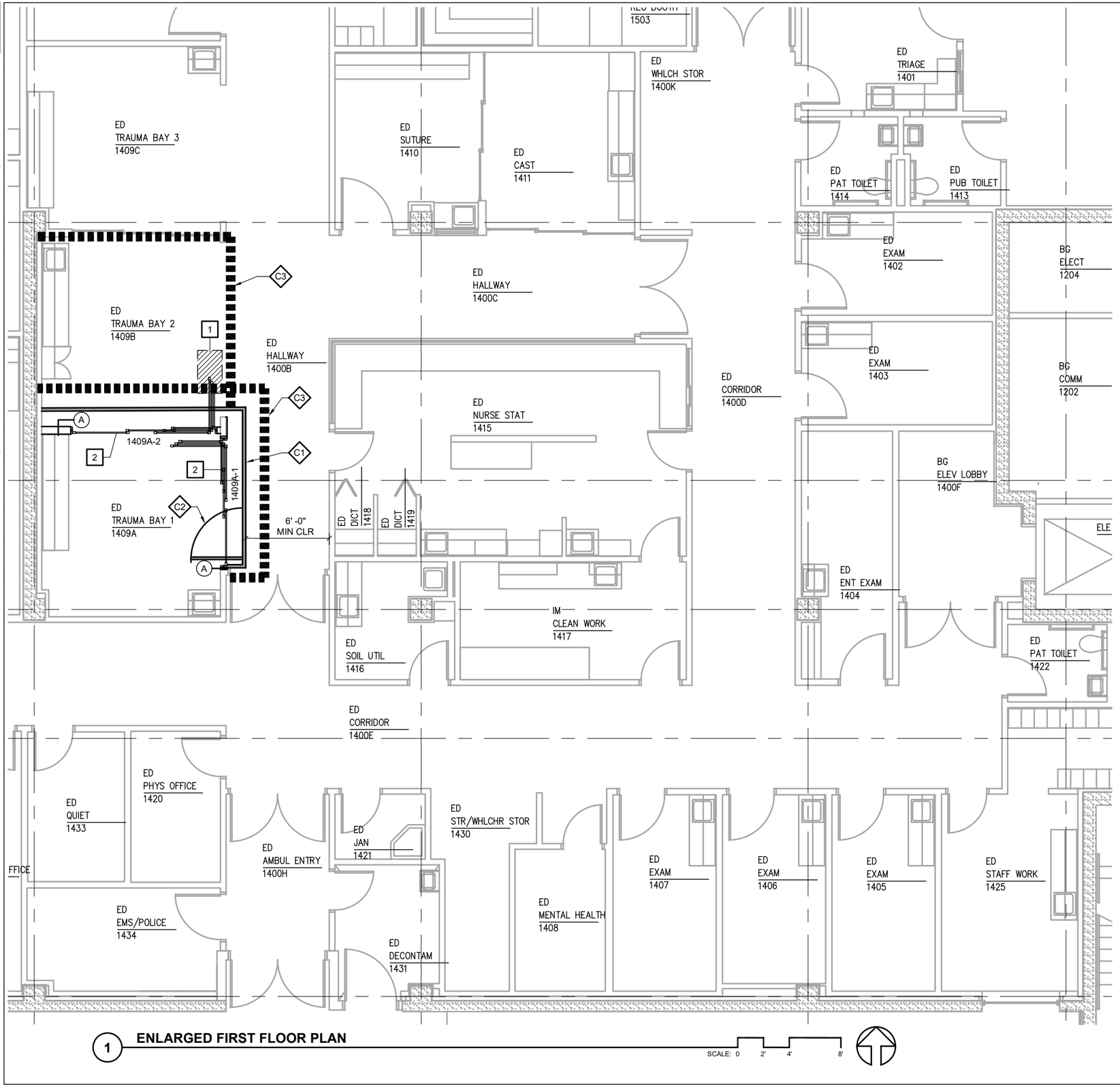
DESIGN	
DRAWN	DF
CHECKED	CW
DATE	05/11/2021

PROJECT No.
21010JN

SHEET NUMBER
A-303

No.	Date	Item
REVISIONS		

IF THIS BAR DOES NOT MEASURE EXACTLY ONE INCH, THE SCALE OF THIS DRAWING HAS BEEN ALTERED DURING IT'S PRODUCTION, AFFECTING ALL LABELED SCA



1 ENLARGED FIRST FLOOR PLAN

SCALE: 0 2' 4' 8'

RENOVATION GENERAL NOTES:

1. SEE MECH FOR PHASING OF WORK.
2. PROTECT EXIST CASEWORK AND EQUIPMENT DURING ALL PHASES OF WORK
3. REMOVE AND RE-INSTALL EXIST ACP FOR MECH WORK ABOVE CLG AS REQ'D. COORD WITH ELECT
4. PATCH SURFACES AT DEMO LOCATIONS. FINISH TO MATCH ADJACENT SURFACES
5. SEE MECHANICAL FOR DUCTS AND DUCT SUPPORTS

SHEET KEY NOTES:

1 SAW CUT OR CORE CONC SECOND FLOOR ASSEMBLY ABOVE FOR MECH WORK, PATCH CONC SLAB AS REQ,
COORDINATE CONCRETE FLOOR PENETRATIONS AND SIZE FOR EXHAUST DUCTS WITH EXISTING INSLAB REINFORCEMENT TO AVOID CUTTING REINFORCEMENT BARS,
SEAL DUCT PENETRATIONS AT 2HR FLOOR FOLLOWING HILTI C-AJ-7084 WITH FS-ONE MAX AND MINERAL WOOL PACKING MATERIAL

2 TELESCOPING ICU DOOR, SEE DOOR SCHEDULE

INFECTION CONTROL NOTES :

C1 ENCLOSE CONSTRUCTION AREA WITH TEMPORARY PARTITIONS
- NON-COMBUSTIBLE CONSTRUCTION
- TO UNDERSIDE OF CEILING
- ABOVE CEILING SEALED WITH FIRE RESISTANT VISQUEEN TO UNDERSIDE OF FLOOR ASSEMBLY ABOVE
- FINISHED TAPED & PAINTED ON PUBLIC SIDE
- PROTECT FLOOR & CEILING FROM DAMAGE AT WALL CONNECTION

C2 TEMP DOORS TO BE AUTO CLOSING WITH TIGHT SEAL

C3 TEMPORARY ICRA DUST ENCLOSURE AROUND WORK AREAS AND PHASED WORK AREAS
-REMOVE PROMPTLY UPON COMPLETION & CLEAN AREA FOR OCCUPANCY

CONSULTANT :
Jensen Yorba Wall Inc.

STATE OF ALASKA 49TH COREY A. WALL Jul. 2, 21 NO. A 12834 REGISTERED PROFESSIONAL ARCHITECT

PDC ENGINEERS PLAN • DESIGN • CONSTRUCT A RESPEC COMPANY 2700 Gambell St. Ste. 500, Anchorage, AK 99503 907.743.3300 | AECC605

PROJECT :
BARTLETT ED VENTILATION IMPROVEMENTS
JUNEAU, ALASKA

SHEET TITLE :
ENLARGED FIRST FLOOR PLAN
CONSTRUCTION DOCUMENTS

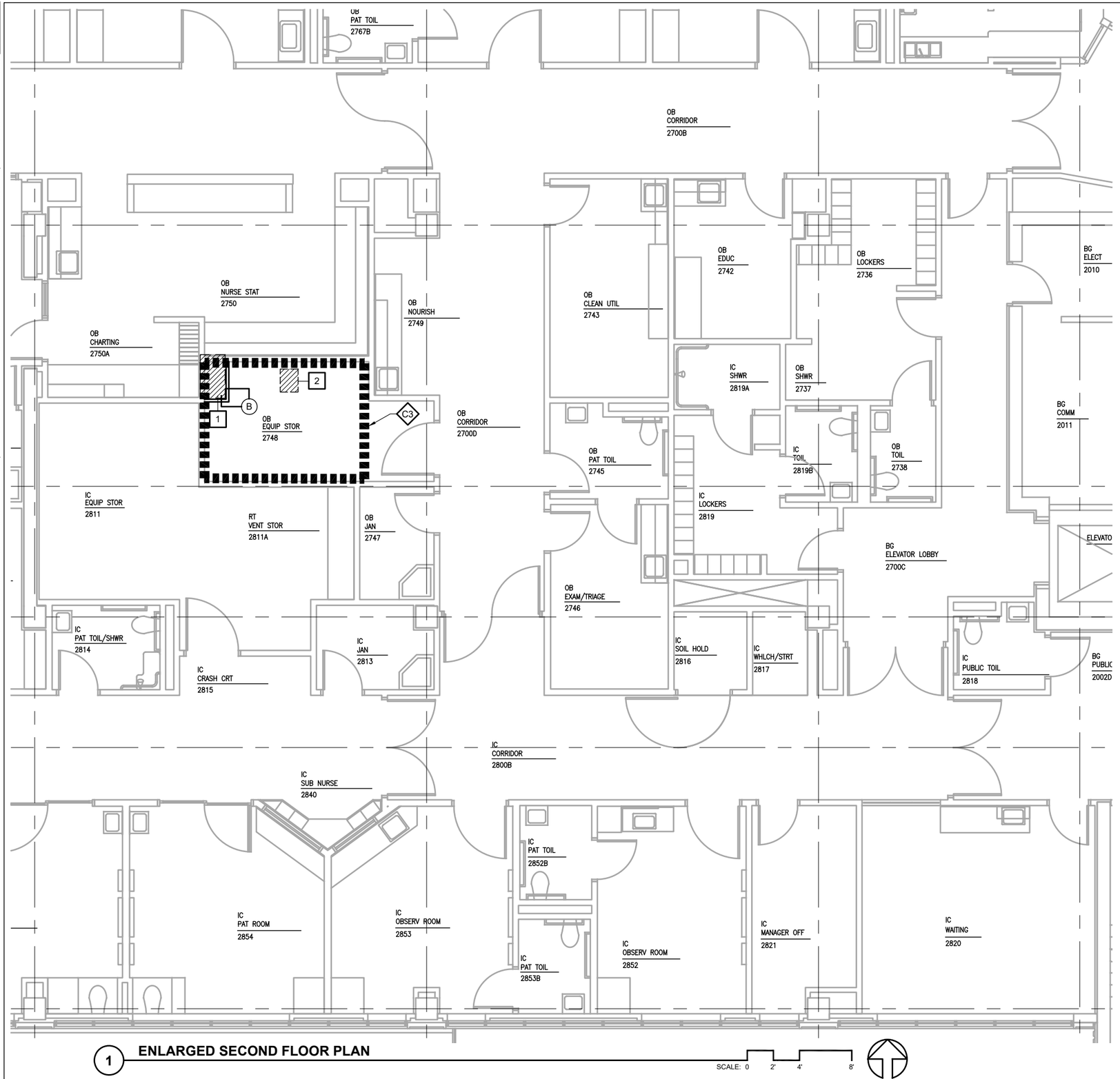
DESIGN	DF
DRAWN	CW
CHECKED	
DATE	05/11/2021

PROJECT No.
21010JN

SHEET NUMBER
A-401

No.	Date	Item
REVISIONS		

IF THIS BAR DOES NOT MEASURE EXACTLY ONE INCH, THE SCALE OF THIS DRAWING HAS BEEN ALTERED DURING IT'S PRODUCTION, AFFECTING ALL LABELED SCA



1 ENLARGED SECOND FLOOR PLAN

SCALE: 0 2' 4' 8'

RENOVATION GENERAL NOTES:

1. SEE MECH FOR PHASING OF WORK.
2. PROTECT EXIST CASEWORK AND EQUIPMENT DURING ALL PHASES OF WORK
3. REMOVE AND RE-INSTALL EXIST ACP FOR MECH WORK ABOVE CLG AS REQ'D. COORD WITH ELECT
4. PATCH SURFACES AT DEMO LOCATIONS. FINISH TO MATCH ADJACENT SURFACES
5. SEE MECHANICAL FOR DUCTS AND DUCT SUPPORTS

SHEET KEY NOTES:

1 SAW CUT OR CORE CONC SECOND FLOOR FOR MECH WORK, PATCH CONC SLAB AS REQ, PATCH SV FLOOR FINISH
COORDINATE CONCRETE FLOOR PENETRATIONS AND SIZE FORE EXHAUST DUCTS WITH EXISTING INSLAB REINFORCEMENT TO AVOID CUTTING REINFORCEMENT BARS,
SEAL DUCT PENETRATIONS AT 2HR FLOOR FOLLOWING HILTI C-AJ-7084 WITH FS-ONE MAX AND MINERAL WOOL PACKING MATERIAL

2 SAW CUT OR CORE CONC THIRD FLOOR ASSEMBLY ABOVE FOR MECH WORK, PATCH CONC SLAB AS REQ,
COORDINATE CONCRETE FLOOR PENETRATIONS AND SIZE FOR EXHAUST DUCTS WITH EXISTING INSLAB REINFORCEMENT TO AVOID CUTTING REINFORCEMENT BARS,
SEAL DUCT PENETRATIONS AT 2HR FLOOR FOLLOWING HILTI C-AJ-7084 WITH FS-ONE MAX AND MINERAL WOOL PACKING MATERIAL

INFECTION CONTROL NOTES :

C1 ENCLOSE CONSTRUCTION AREA WITH TEMPORARY PARTITIONS
- NON-COMBUSTIBLE CONSTRUCTION
- TO UNDERSIDE OF CEILING
- ABOVE CEILING SEALED WITH FIRE RESISTANT VISQUEEN TO UNDERSIDE OF FLOOR ASSEMBLY ABOVE
- FINISHED TAPED & PAINTED ON PUBLIC SIDE
- PROTECT FLOOR & CEILING FROM DAMAGE AT WALL CONNECTION

C2 TEMP DOORS TO BE AUTO CLOSING WITH TIGHT SEAL

C3 TEMPORARY ICRA DUST ENCLOSURE AROUND WORK AREAS AND PHASED WORK AREAS
-REMOVE PROMPTLY UPON COMPLETION & CLEAN AREA FOR OCCUPANCY

CONSULTANT :
Jensen Yorba Wall Inc.

STATE OF ALASKA
49 TH
COREY A. WALL
Jul. 2, 21
NO. A 12834
REGISTERED PROFESSIONAL ARCHITECT

PDC ENGINEERS
A RESPEC COMPANY
PLAN • DESIGN • CONSTRUCT
2700 Gambell St. Ste. 500, Anchorage, AK 99503
907.743.3300 | AECC603

PROJECT :
BARTLETT ED VENTILATION IMPROVEMENTS
JUNEAU, ALASKA

SHEET TITLE :
ENLARGED SECOND FLOOR PLAN
CONSTRUCTION DOCUMENTS

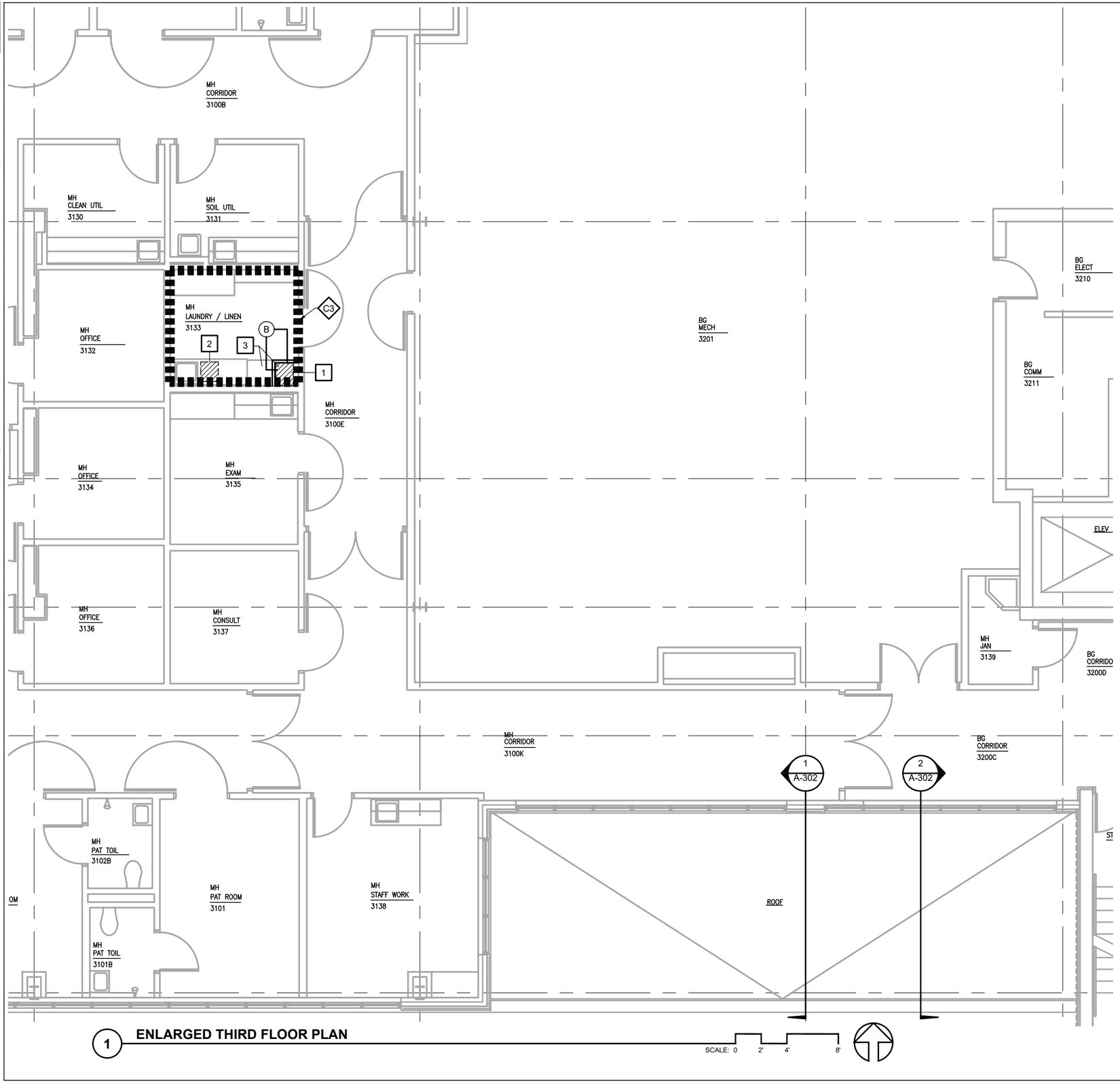
DESIGN	DF
DRAWN	CW
CHECKED	
DATE	05/11/2021

PROJECT No.
21010JN

SHEET NUMBER
A-402

No.	Date	Item
REVISIONS		

IF THIS BAR DOES NOT MEASURE EXACTLY ONE INCH, THE SCALE OF THIS DRAWING HAS BEEN ALTERED DURING IT'S PRODUCTION. AFFECTING ALL LABELED SCA



1 ENLARGED THIRD FLOOR PLAN

SCALE: 0 2' 4' 8'

RENOVATION GENERAL NOTES:

1. SEE MECH FOR PHASING OF WORK.
2. PROTECT EXIST CASEWORK AND EQUIPMENT DURING ALL PHASES OF WORK
3. REMOVE AND RE-INSTALL EXIST ACP FOR MECH WORK ABOVE CLG AS REQ'D. COORD WITH ELECT
4. PATCH SURFACES AT DEMO LOCATIONS. FINISH TO MATCH ADJACENT SURFACES
5. SEE MECHANICAL FOR DUCTS AND DUCT SUPPORTS

SHEET KEY NOTES:

1 SAW CUT OR CORE CONC THIRD FLOOR FOR MECH WORK,
PATCH CONC SLAB AS REQ, PATCH SV FLOOR FINISH
COORDINATE CONCRETE FLOOR PENETRATIONS AND SIZE
FORE EXHAUST DUCTS WITH EXISTING INSLAB
REINFORCEMENT TO AVOID CUTTING REINFORCEMENT BARS

2 SAW CUT OR CORE CONC ROOF ASSEMBLY ABOVE FOR MECH WORK,
PATCH CONC SLAB AS REQ,
REMOVE ROOFING ASSEMBLY ABOVE CONCRETE DECK AS REQ
COORDINATE CONCRETE FLOOR PENETRATIONS AND SIZE FOR
EXHAUST DUCTS WITH EXISTING INSLAB REINFORCEMENT TO AVOID
CUTTING REINFORCEMENT BARS,
SEAL DUCT PENETRATIONS AT 2HR FLOOR FOLLOWING HILTI C-AJ-7084
WITH FS-ONE MAX AND MINERAL WOOL PACKING MATERIAL

3 CUT AND REMOVE CASEWORK AS REQUIRED FOR DUCT
INSTALL AND PARTITION FRAMING

INFECTION CONTROL NOTES :

C1 ENCLOSE CONSTRUCTION AREA WITH TEMPORARY PARTITIONS
- NON-COMBUSTIBLE CONSTRUCTION
- TO UNDERSIDE OF CEILING
- ABOVE CEILING SEALED WITH FIRE RESISTANT VISQUEEN TO UNDERSIDE OF FLOOR ASSEMBLY ABOVE
- FINISHED TAPED & PAINTED ON PUBLIC SIDE
- PROTECT FLOOR & CEILING FROM DAMAGE AT WALL CONNECTION

C2 TEMP DOORS TO BE AUTO CLOSING WITH TIGHT SEAL

C3 TEMPORARY ICRA DUST ENCLOSURE AROUND WORK AREAS AND PHASED WORK AREAS
-REMOVE PROMPTLY UPON COMPLETION & CLEAN AREA FOR OCCUPANCY

CONSULTANT :
Jensen Yorba Wall Inc.

STATE OF ALASKA 49TH
COREY A. WALL
Jul. 2, 21
NO. A 12834
REGISTERED PROFESSIONAL ARCHITECT

PDC ENGINEERS
PLAN • DESIGN • CONSTRUCT
A RESPEC COMPANY
2700 Gambell St. Ste. 500, Anchorage, AK 99503
907.743.3300 | AECC605

PROJECT :
BARTLETT ED VENTILATION IMPROVEMENTS
JUNEAU, ALASKA

SHEET TITLE :
ENLARGED THIRD FLOOR PLAN
CONSTRUCTION DOCUMENTS

DESIGN	
DRAWN	DF
CHECKED	CW
DATE	05/11/2021

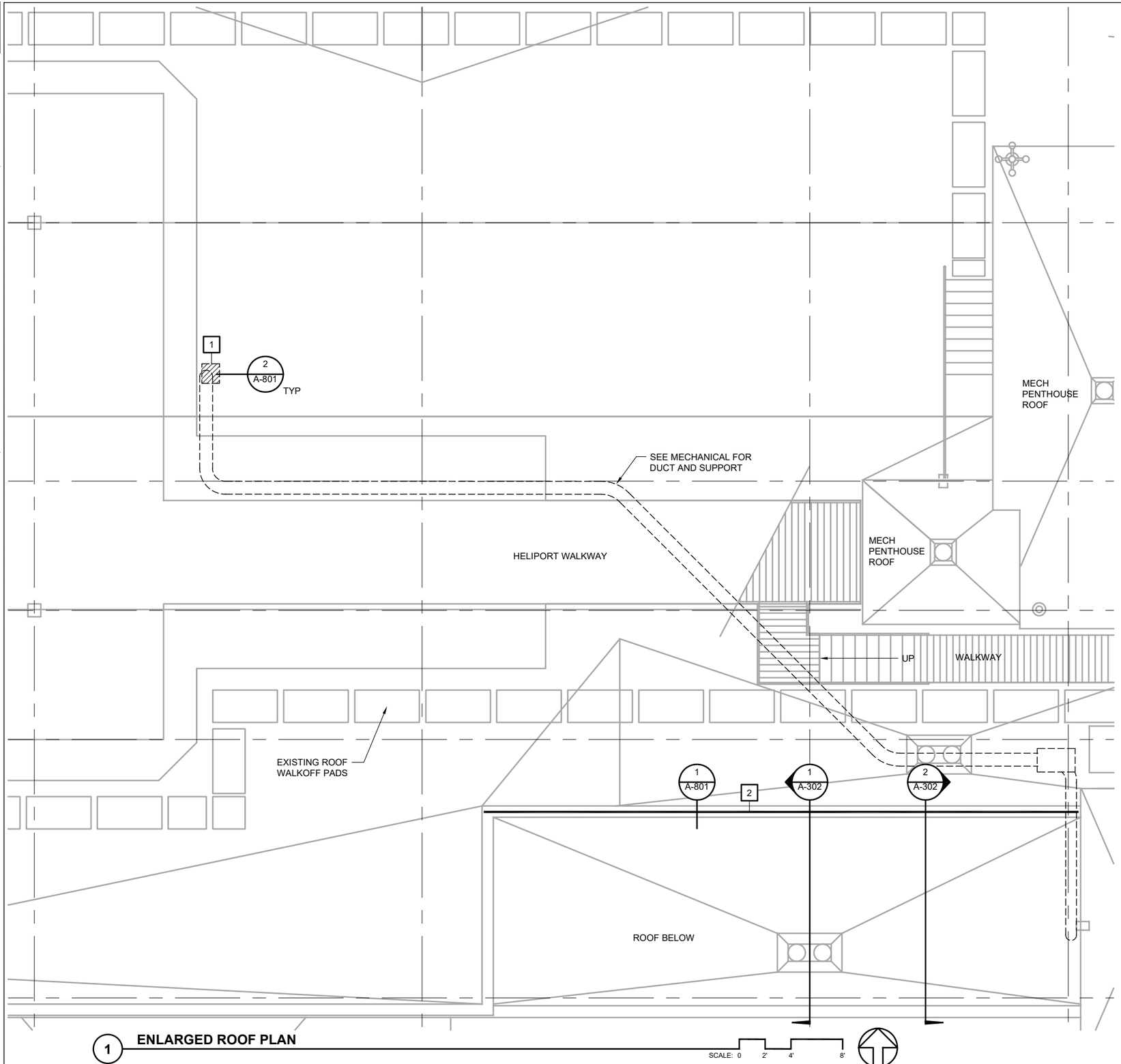
PROJECT No.
21010JN

SHEET NUMBER
A-403

No.	Date	Item
REVISIONS		

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

1"



1 ENLARGED ROOF PLAN

SCALE: 0 2' 4' 8'

RENOVATION GENERAL NOTES:

1. SEE MECH FOR PHASING OF WORK.
2. PROTECT EXIST CASEWORK AND EQUIPMENT DURING ALL PHASES OF WORK
3. REMOVE AND RE-INSTALL EXIST ACP FOR MECH WORK ABOVE CLG AS REQ'D. COORD WITH ELECT
4. PATCH SURFACES AT DEMO LOCATIONS. FINISH TO MATCH ADJACENT SURFACES
5. SEE MECHANICAL FOR DUCTS AND DUCT SUPPORTS

SHEET KEY NOTES:

1 SAW CUT OR CORE CONC ROOF DECK FOR MECH WORK, PATCH CONC SLAB AS REQ, COORDINATE CONCRETE DECK PENETRATIONS AND SIZE FOR EXHAUST DUCT WITH EXISTING INSLAB REINFORCEMENT TO AVOID CUTTING REINFORCEMENT BARS,
CUT AND PATCH ROOF AS REQ'D FOR MECH WORK. SEE ROOF CURB DETAIL, EXISTING CONCRETE VARIES,
SEAL DUCT PENETRATIONS AT 2HR FLOOR FOLLOWING HILTI C-AJ-7084 WITH FS-ONE MAX AND MINERAL WOOL PACKING MATERIAL

2 SAFETY RAIL

INFECTION CONTROL NOTES :

C1 ENCLOSE CONSTRUCTION AREA WITH TEMPORARY PARTITIONS
- NON-COMBUSTIBLE CONSTRUCTION
- TO UNDERSIDE OF CEILING
- ABOVE CEILING SEALED WITH FIRE RESISTANT VISQUEEN TO UNDERSIDE OF FLOOR ASSEMBLY ABOVE
- FINISHED TAPED & PAINTED ON PUBLIC SIDE
- PROTECT FLOOR & CEILING FROM DAMAGE AT WALL CONNECTION

C2 TEMP DOORS TO BE AUTO CLOSING WITH TIGHT SEAL

C3 TEMPORARY ICRA DUST ENCLOSURE AROUND WORK AREAS AND PHASED WORK AREAS
-REMOVE PROMPTLY UPON COMPLETION & CLEAN AREA FOR OCCUPANCY

CONSULTANT :
Jensen Yorba Wall Inc.

STATE OF ALASKA
49TH
COREY A. WALL
Jul. 2, 21
NO. A 12834
REGISTERED PROFESSIONAL ARCHITECT

PDC ENGINEERS
A RESPEC COMPANY
PLAN • DESIGN • CONSTRUCT
2700 Gambell St. Ste. 500, Anchorage, AK 99503
907.743.3200 | AECC005

PROJECT :
BARTLETT ED VENTILATION IMPROVEMENTS
JUNEAU, ALASKA

SHEET TITLE :
ENLARGED ROOF PLAN
CONSTRUCTION DOCUMENTS

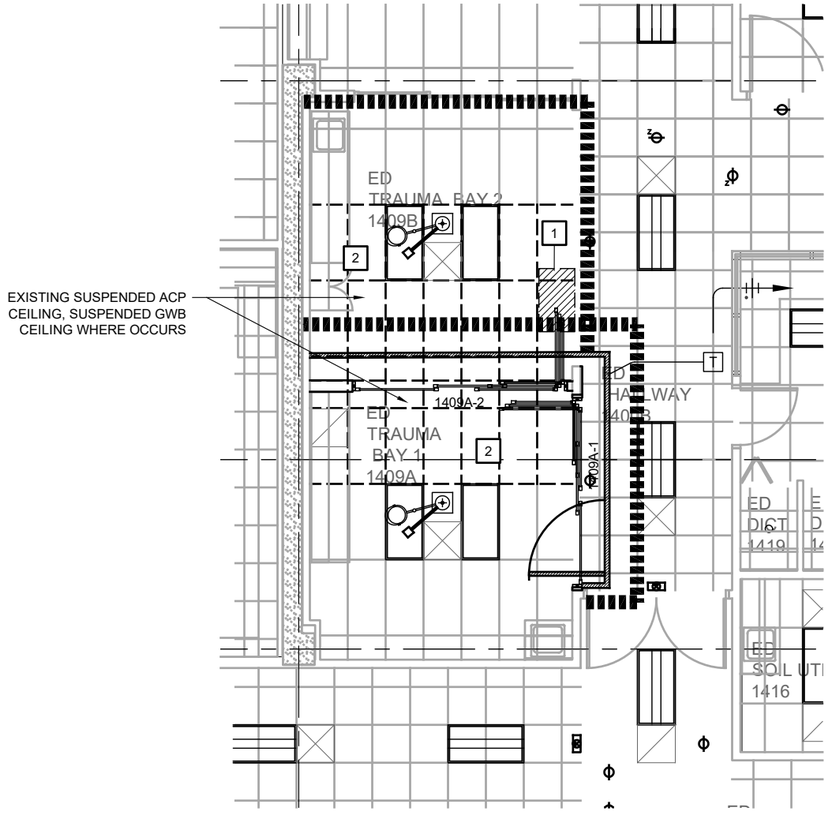
DESIGN	DP
DRAWN	CW
CHECKED	
DATE	05/11/2021

PROJECT No.
21010JN

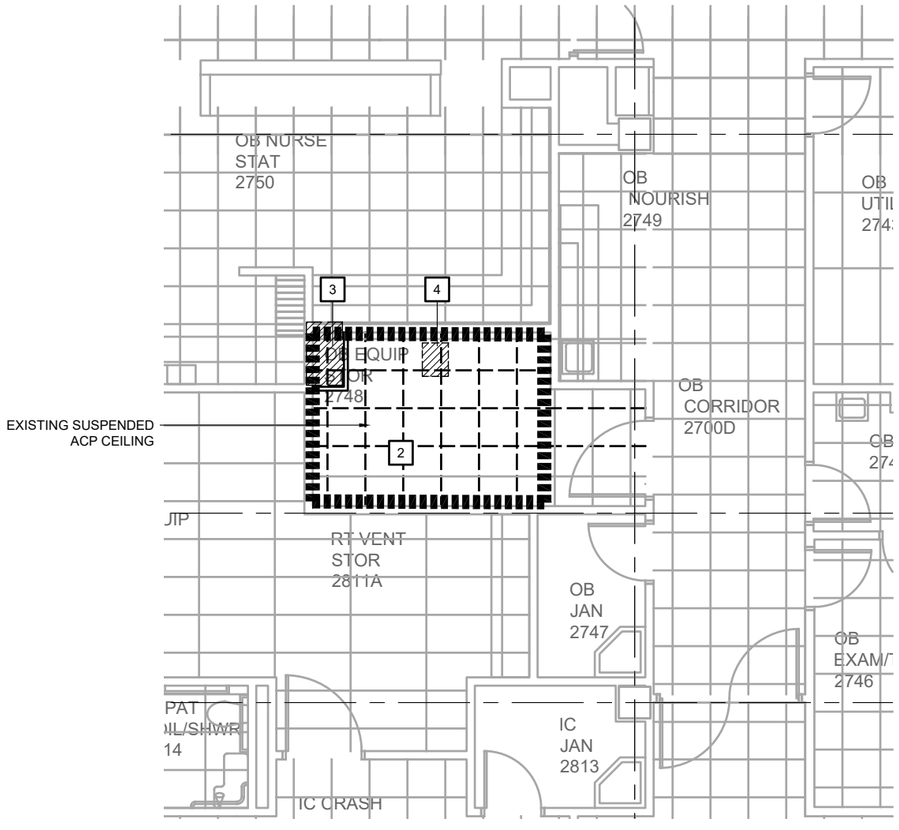
SHEET NUMBER
A-404

No.	Date	Item
REVISIONS		

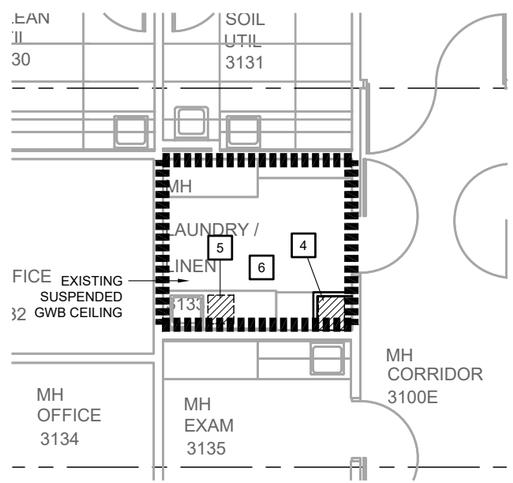
IF THIS BAR DOES NOT MEASURE EXACTLY ONE INCH, THE SCALE OF THIS DRAWING HAS BEEN ALTERED DURING IT'S PRODUCTION. AFFECTING ALL LABELED SCA



1 FIRST FLOOR - PARTIAL REFLECTED CEILING PLAN



2 SECOND FLOOR - PARTIAL REFLECTED CEILING PLAN



3 THIRD FLOOR - PARTIAL REFLECTED CEILING PLAN

RCP GENERAL NOTES:

1. REMOVE AND REINSTALL CEILING MOUNTED EQUIPMENT AS REQ'D. COORD W/ ELECT
2. REMOVE AND RE-INSTALL EXIST ACP FOR MECH WORK ABOVE CLG AS REQ'D. COORD WITH ELECT
3. PATCH SURFACES AT DEMO LOCATIONS. FINISH TO MATCH ADJ SURFACE

SHEET KEY NOTES:

1. SAW CUT OR CORE CONC SECOND FLOOR ASSEMBLY ABOVE FOR MECH WORK,REMOVE AND REINSTALL SUSPENDED ACP CEILING AS REQUIRED
2. REMOVE AND REINSTALL SUSPENDED ACP CEILING AS REQUIRED FOR MECH WORK
3. SAW CUT OR CORE CONCRETE SECOND FLOOR FOR MECH WORK
4. SAW CUT OR CORE CONCRETE THIRD FLOOR FOR MECH WORK
5. SAW CUT OR COR CONCRETE ROOF ASSEMBLY FOR MECH WORK , CUT ROOF ASSEMBLY AS REQ'D FOR MECH WORK. REMOVE AND REINSTALL GWB CEILING AS REQUIRED, PT CLG.
6. REMOVE AND REINSTALL SUSPENDED GWB CEILING AS REQUIRED, PT CLG.

SCALE: 0 2' 4' 8'

No.	Date	Item
REVISIONS		

CONSULTANT :
Jensen Yorba Wall Inc.

STATE OF ALASKA 49TH COREY A. WALL NO. A 12834 REGISTERED PROFESSIONAL ARCHITECT

PDC ENGINEERS PLAN • DESIGN • CONSTRUCT A RESPEC COMPANY 2700 Gambell St. Ste. 500, Anchorage, AK 99503 907.743.3300 | AECC605

PROJECT : BARTLETT ED VENTILATION IMPROVEMENTS JUNEAU, ALASKA

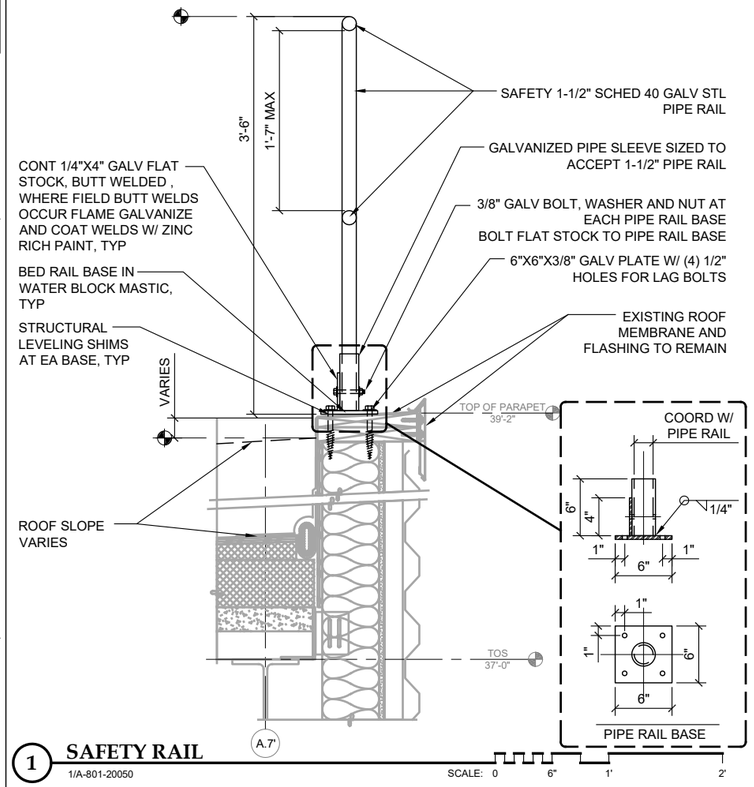
SHEET TITLE : PARTIAL REFLECTED CEILING PLANS CONSTRUCTION DOCUMENTS

DESIGN	DP
DRAWN	CW
CHECKED	
DATE	05/11/2021

PROJECT No. 21010JN

SHEET NUMBER A-601

IF THIS BAR DOES NOT MEASURE EXACTLY ONE INCH, THE SCALE OF THIS DRAWING HAS BEEN ALTERED DURING IT'S PRODUCTION, AFFECTING ALL LABELED SCA



1 SAFETY RAIL

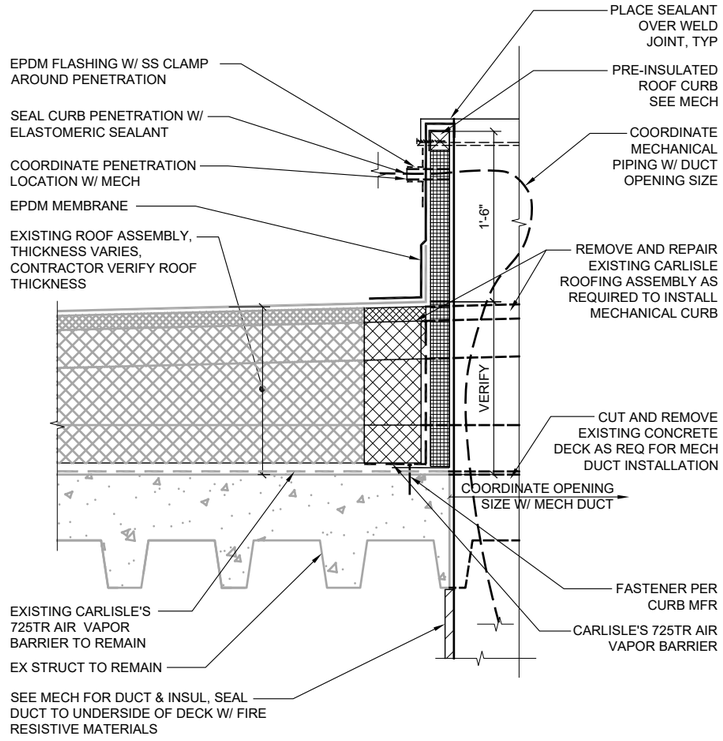
1/A-801-20050

SCALE: 0 6" 1' 2'

NOTE:
EXISTING ROOF ASSEMBLY, CARLISLE 725TR , CARLISLE TYPE VIII EPS INSULATION, 2" SECURSHIELD HD COMPOSITE BOARD, ALL LAYERS ADHERED WITH CARLISLE FAST ADHESIVE,

MEMBRANE CARLISLE .145" THICK SURE-SEAL FLEECEBACK EPDM FULLY ADHERED W/ CARLISLE FAST ADHESIVE

ALL ROOFING WORK TO BE PER CARLISLE DETAILS AND WARRANTY, NO EXCEPTIONS



2 MECHANICAL ROOF CURB

2/A-801-20050

SCALE: 0 6" 1' 2'

CONSULTANT :
Jensen Yorba Wall Inc.

STATE OF ALASKA
49TH
COREY A. WALL
Jul. 2, 21
NO. A 12834
REGISTERED PROFESSIONAL ARCHITECT

PDC ENGINEERS
PLAN • DESIGN • CONSTRUCT
A RESPEC COMPANY
2700 Gambell St. Ste. 500, Anchorage, AK 99503
907.743.3200 | AECC605

PROJECT :
BARTLETT ED VENTILATION IMPROVEMENTS
JUNEAU, ALASKA

SHEET TITLE :
EXTERIOR DETAILS
CONSTRUCTION DOCUMENTS

DESIGN	
DRAWN	DF
CHECKED	CW
DATE	05/11/2021

PROJECT No.
21010JN

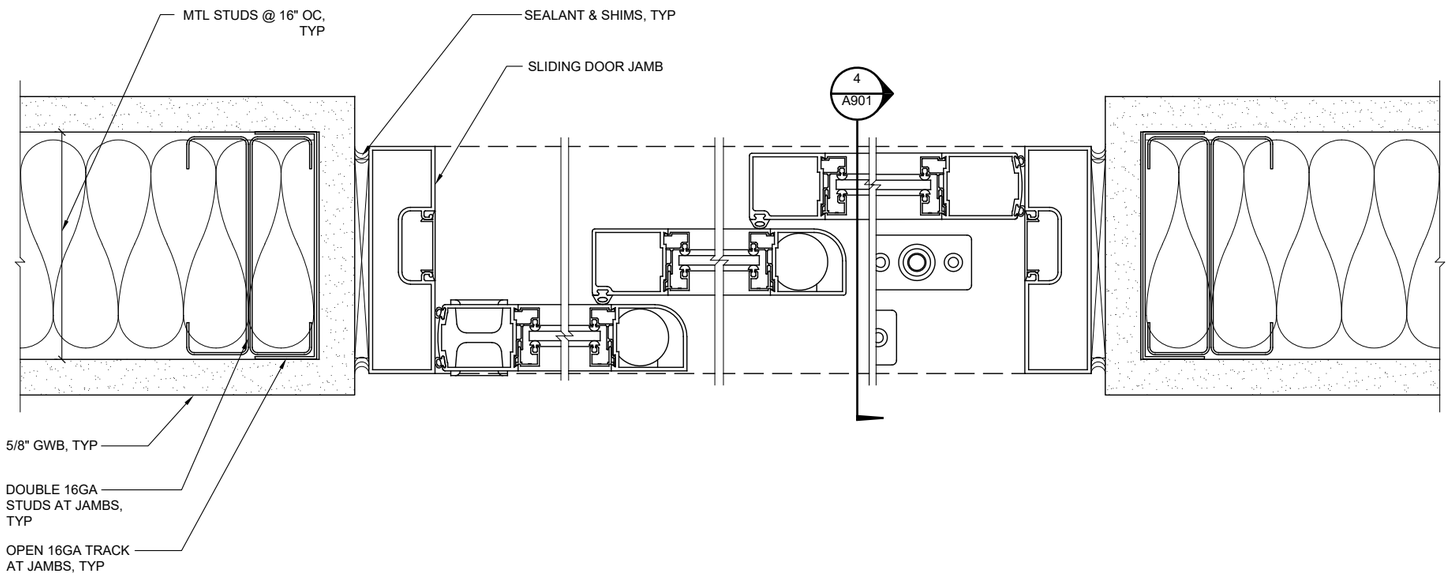
SHEET NUMBER
A-801

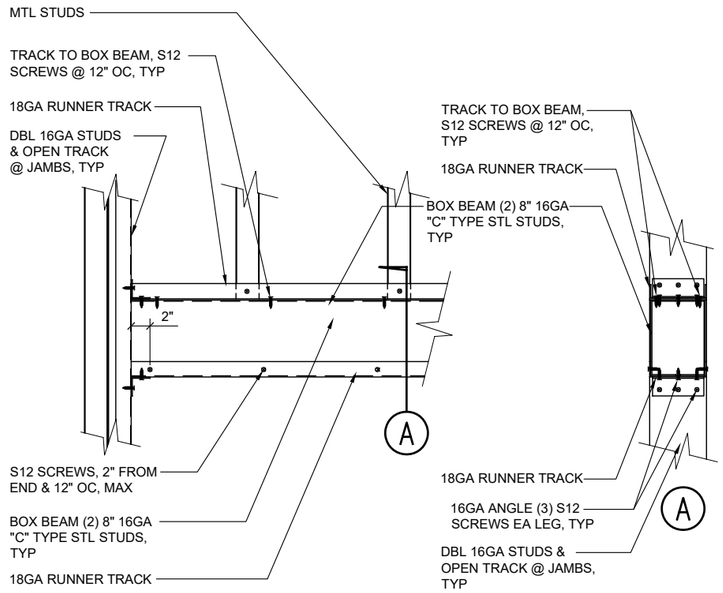
No.	Date	Item
REVISIONS		

IF THIS BAR DOES NOT MEASURE EXACTLY ONE INCH, THE SCALE OF THIS DRAWING HAS BEEN ALTERED DURING IT'S PRODUCTION. AFFECTING ALL LABELED SCA

1"

DOOR BREAKOUT SIDE

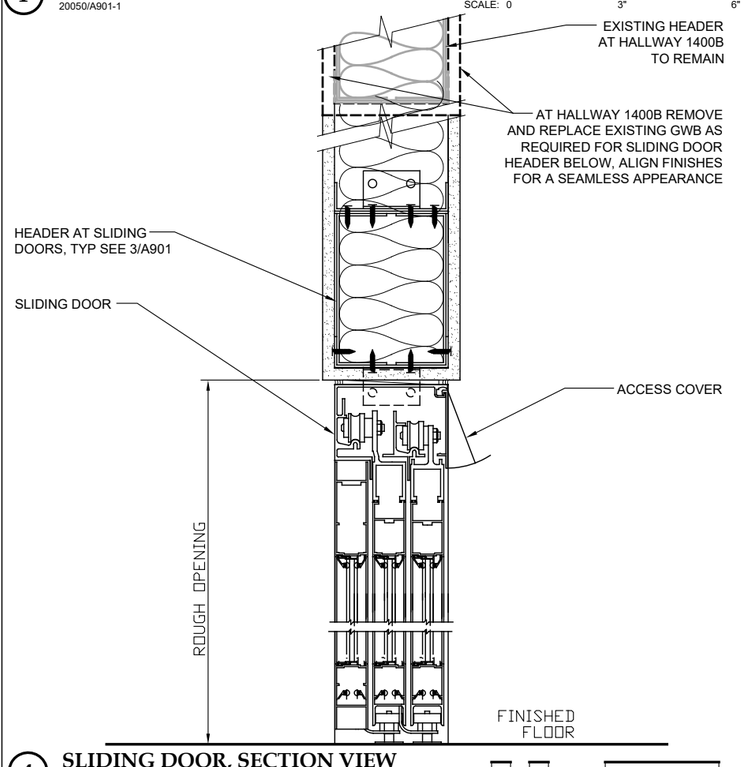




NOTE, INSULATION NOT SHOWN FOR CLARITY

1 SLIDING DOOR, PLAN VIEW

20050/A901-1 SCALE: 0 3" 6"



4 SLIDING DOOR, SECTION VIEW

20050/A901-4 SCALE: 0 3" 6" 1'

3 SLIDING DOOR FRAMING

20050/A901-3 SCALE: 0 6" 1' 2'

No.	Date	Item
REVISIONS		

CONSULTANT :
Jensen Yorba Wall Inc.

STATE OF ALASKA 49TH
COREY A. WALL Jul. 2, 21
NO. A 12834
REGISTERED PROFESSIONAL ARCHITECT

PDC ENGINEERS
A RESPEC COMPANY
2700 Gambell St. Ste. 500, Anchorage, AK 99503
907.743.3300 | AECC005
PLAN • DESIGN • CONSTRUCT

PROJECT :
BARTLETT ED VENTILATION IMPROVEMENTS
JUNEAU, ALASKA

SHEET TITLE :
INTERIOR DETAILS
CONSTRUCTION DOCUMENTS

DESIGN	DP
DRAWN	CW
CHECKED	
DATE	05/11/2021

PROJECT No.
21010JN

SHEET NUMBER
A-901

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1"
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GENERAL

DETAIL SYMBOL — 1 / M-101 — DETAIL IDENTIFICATION; DRAWING ON WHICH DETAIL IS SHOWN

SECTION SYMBOL — A / M-101 — SECTION IDENTIFICATION; DRAWING ON WHICH SECTION IS SHOWN

MATCHLINE VIEW REFERENCE — 1/M-102A — DETAIL IDENTIFICATION; DRAWING ON WHICH CONTINUATION OF VIEW IS SHOWN

ROOM NAME AND NUMBER DESIGNATION — ROOM NAME / 101

SHEET KEYNOTE — 1

EQUIPMENT TAG — EF-#

GENERAL SHEET NOTE — 3.

DIAMETER — ⌀

POINT OF CONNECTION

NORTH ARROW

CONSTRUCTION PHASE LINESTYLE

SINGLE LINE:

TO BE DEMOLISHED OR RELOCATED

EXISTING TO REMAIN IN PHASE

NEW

DOUBLE LINE:

TO BE DEMOLISHED OR RELOCATED

EXISTING TO REMAIN IN PHASE

NEW

DUCT LEGEND

DUCT (1ST FIGURE, SIDE SHOWN 2ND FIGURE, SIDE NOT SHOWN) — 24"X20"

DIRECTION OF FLOW

FLEXIBLE DUCT CONNECTION

INSULATED DUCTWORK
DIMENSIONS = INTERIOR FACE OF SHEET METAL — 24"X20" (+2)
THICKNESS OF INSULATION IN INCHES

LINED DUCTWORK
DIMENSIONS = INTERIOR FACE OF SHEET METAL — 24"X20" (-2)
THICKNESS OF LINING IN INCHES

VOLUME DAMPER — V

BACKDRAFT DAMPER — V

MOTORIZED CONTROL DAMPER — V

FIRE SMOKE DAMPER — C

FIRE DAMPER

SMOKE DAMPER

FSD FD SD

DUCT SMOKE DETECTOR (PENDING)

RECTANGULAR DUCTWORK - X" X Y"
WHERE X = DIMENSION ON THE PAGE
AND Y = DIMENSION INTO THE PAGE — SUPPLY RETURN EXHAUST

ROUND DUCTWORK - X"ø
WHERE X = THE DIAMETER OF THE DUCT

FLAT OVAL DUCTWORK - X" X Y" FO
WHERE X = DIMENSION ON THE PAGE
AND Y = DIMENSION INTO THE PAGE

RECTANGULAR MITERED ELBOW WITH TURNING VANES

RECTANGULAR ELBOW UP (OUT OF THE PAGE)

RECTANGULAR ELBOW DOWN (INTO THE PAGE)

ROUND RADIUS ELBOW

ROUND ELBOW UP (OUT OF THE PAGE)

ROUND ELBOW DOWN (INTO THE PAGE)

FLAT OVAL GORED ELBOW

FLAT OVAL ELBOW DOWN (INTO THE PAGE)

FLAT OVAL ELBOW UP (OUT OF THE PAGE)

ABBREVIATIONS

ACFM	ACTUAL CUBIC FEET PER MINUTE
AFF	ABOVE FINISHED FLOOR
AGT	AVERAGE GLYCOL TEMPERATURE
AHAP	AS HIGH AS POSSIBLE
AHU	AIR HANDLING UNIT
APPROX	APPROXIMATE
AS	AIR SEPARATOR
AV	AUTOMATIC VALVE
BTU	BRITISH THERMAL UNIT
CA	COMPRESSED AIR
CFM	CUBIC FEET PER MINUTE
CIRC	CIRCULATION
CH	CHILLER
CLNG	CEILING
CO2	CARBON DIOXIDE
CONT	CONTINUATION, CONTINUED
CP	CIRCULATING PUMP
CR	CONDENSATE RETURN
CU	COPPER
CV	CONSTANT VOLUME BOX
CW	COLD WATER
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
(D)	DEMOLISH
DDC	DIRECT DIGITAL CONTROLS
DIA	DIAMETER
DHWC	DOMESTIC HOT WATER CIRC
DN	DOWN
DX	DIRECT EXPANSION
(E)	EXISTING
EA	EXHAUST AIR
EF	EXHAUST FAN
ENT	ENTERING
ET	EXPANSION TANK
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
FCO	FLOOR CLEANOUT
FD	FIRE DAMPER
FD	FLOOR DRAIN
FT	FEET
FSD	FIRE SMOKE DAMPER
GAL	GALLONS
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
HC	HEATING COIL
HP	HORSE POWER
HRV	HEAT RECOVERY VENTILATOR
HW	HOT WATER
HWC	HOT WATER CIRCULATION
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ
ID	INSIDE DIAMETER
IN	INCHES
LAV	LAVATORY
LF	LINEAL FEET
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BTU's PER HOUR
MIN	MINIMUM
MISC	MISCELLANEOUS
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NO.	NUMBER
OA	OUTSIDE AIR
OC	ON CENTER
ORD	OVERFLOW ROOF DRAIN
ORL	OVERFLOW RAIN LEADER
OSA	OUTSIDE AIR SUPPLY
P	PUMP
PD	PRESSURE DROP
PH	PHASE
PHC	PRE HEAT COIL
PM	PRESSURE MONITOR
POC	POINT OF CONNECTION
PSIG	POUNDS PER SQUARE INCH GAUGE
PSI	POUNDS PER SQUARE INCH
RA	RETURN AIR
RCP	RADIANT CEILING PANEL
RD	ROOF DRAIN
RECIRC	RECIRCULATION
RHC	REHEAT HEATING COIL
RL	RAINLEADER
RPBP	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
RTU	ROOF TOP UNIT
RV	REFRIGERANT VAPOR
RWL	RAIN WATER LEADER
SA	SUPPLY AIR
SCH	SCHEDULE
SQFT	SQUARE FEET
SF	SUPPLY FAN
SH	STEAM HUMIDIFIER
SP	SUMP PUMP
SS	STAINLESS STEEL
TA	TRANSFER AIR
TEMP	TEMPORARY
TDH	TOTAL DEVELOPED HEAD
TP	TRAP PRIMER
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORY
UON	UNLESS OTHERWISE NOTED
VAV	VARIABLE AIR VOLUME
VTR	VENT THROUGH ROOF
VR	VENT RISER
W	WASTE
W/	WITH
W.C.	WATER COLUMN
WCO	WALL CLEANOUT
WH	WATER HEATER
WHA	WATER HAMMER ARRESTOR
WPD	WATER PRESSURE DROP
WRT	WITH RESPECT TO

MECHANICAL SHEET LIST

SHEET NUMBER	SHEET NAME
M-001	LEGENDS AND ABBREVIATIONS
M-002	MECHANICAL SPECIFICATIONS
M-101	FIRST FLOOR PLAN
M-102	SECOND FLOOR PLAN - VENTILATION
M-103	THIRD FLOOR PLAN - VENTILATION
M-104	ROOF PLAN
M-201	FIRST FLOOR TRAUMA BAY PHASING
M-501	MECHANICAL DETAILS

EXHAUST FAN SCHEDULE

NOTES:

MARK	SERVICE	CFM	ESP (IN. WC)	TYPE	DRIVE	RPM	ELECTRICAL				BASIS OF DESIGN		COMMENTS
							HP	V	HZ	PH	MANUFACTURER	MODEL	
EF-37	TRAUMA BAYS	400	0.75"	BACKWARD INCLINED	BELT	1417	1/4	460	60	3	GREENHECK	USF-10	SPRING ISOLATED ROOF INSTALLATION.PROVIDE OPTIONAL MARITIME RATED PAINT COATING. INTEGRAL FAN DRAIN. BELT DRIVE. UPBLAST OUTLET.

MECHANICAL EQUIPMENT SCHEDULE

MARK	EQUIPMENT TYPE	MANUFACTURER	MODEL	V (AC)	POWER (VA)	COMMENTS
PM-1	ROOM PRESSURE MONITOR	TSI	RPM10	24	9	INSTALL MONITOR AT 60" AFF, INSTALL PRESSURE TRANSDUCERS ABOVE AND ACROSS RESPECTIVE DOORWAY. SETTINGS: MODE:ISOLATION; ALARM DELAY:2 MINUTES.

CONSULTANT :

STATE OF ALASKA 49TH — DOUGLAS H. MURRAY — ME 7870 — 7/6/2021 — REGISTERED PROFESSIONAL ENGINEER

PDC ENGINEERS
PLAN • DESIGN • CONSTRUCT
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907.743.3300 | AECC603

PROJECT : BARTLETT ED VENTILATION IMPROVEMENTS — JUNEAU, ALASKA

SHEET TITLE : LEGENDS AND ABBREVIATIONS — CONSTRUCTION DOCUMENTS

DESIGN	SB
DRAWN	CSB
CHECKED	DM
DATE	07/06/2021

PROJECT No. 21010JN

SHEET NUMBER M-001

No.	Date	Item

REVISIONS

1" IF THIS BAR DOES NOT MEASURE EXACTLY ONE INCH, THE SCALE OF THIS DRAWING HAS BEEN ALTERED DURING IT'S PRODUCTION. AFFECTING ALL LABELED SCALES

1. GENERAL:

1.A. PLANS: PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SUPERVISION OF LABOR AND PERFORMANCE OF ALL OPERATIONS REQUIRED TO COMPLETELY INSTALL OPERATING MECHANICAL AND PLUMBING SYSTEMS, TO THE OWNER'S SATISFACTION, AS DEFINED HEREIN AND ON THE DRAWINGS.

1.B. CODE: ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2012 EDITIONS OF THE INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL MECHANICAL CODE (IMC), 2018 UNIFORM PLUMBING CODE (UPC) AND NATIONAL ELECTRICAL CODE (NEC) AS AMENDED BY THE CITY AND BOROUGH OF JUNEAU AND PER CUSTOMARY AND UNIVERSALLY APPROVED INDUSTRY PRACTICES.

1.C. DRAWINGS: THE DRAWINGS ARE DIAGRAMMATIC, NOT NECESSARILY SHOWING ALL OFFSETS OR EXACT LOCATIONS OF PIPING AND DUCTS 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, AND MANUFACTURER'S INSTALLATION DIRECTIONS TO THE IMMEDIATE ATTENTION OF THE OWNER'S REPRESENTATIVE. CODES, ORDINANCES, REGULATIONS, MANUFACTURER'S INSTRUCTIONS OR STANDARDS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH THE DRAWINGS AND SPECIFICATIONS.

1.D. COORDINATION: COORDINATE WORK UNDER THIS DIVISION WITH WORK OF OTHER TRADES TO AVOID CONFLICTS, ERRORS, AND DELAYS. REVIEW THE DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT FURNISHED BY OTHER CRAFTS BUT INSTALLED IN ACCORDANCE WITH THIS SECTION.

1.E. EXISTING CONDITIONS: FIELD VERIFY DIMENSIONS PRIOR TO ORDERING MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR EXTRA EXPENSES ARISING FROM FAILURE ON HIS PART TO COMPLETE THIS TASK.

1.F. EQUIPMENT SUBSTITUTIONS: SCHEDULED BASIS OF DESIGN EQUIPMENT IS REPRESENTATIVE OF THE STANDARD OF QUALITY AND PERFORMANCE REQUIRED. WHERE INDICATED WITH "OR EQUAL", SUBSTITUTIONS WILL BE CONSIDERED IF THE CONTRACTOR DEMONSTRATES TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE THAT THE SUBSTITUTES ARE EQUAL OR BETTER QUALITY, INCLUDING CAPACITY, SIZE AND WEIGHT. WHEN A SUBSTITUTION IS APPROVED, PERFORM ADDITIONAL DESIGN AND PROVIDE EQUIPMENT AND MATERIAL TO PROVIDE A FULLY OPERATING SYSTEM MEETING THE INTENT OF THE ORIGINAL DESIGN AT NO ADDITIONAL COST TO THE OWNER. ALL ALTERNATE DESIGNS MUST BE REVIEWED AND APPROVED BEFORE PURCHASE OF EQUIPMENT. THE CONTRACTOR IS RESPONSIBLE FOR ADDITIONAL COSTS TO OTHER DISCIPLINES RELATED TO THE SUBSTITUTION.

1.G. PRODUCTS: PROVIDE ALL PRODUCTS AND MATERIALS NEW AND UNUSED. OBTAIN OWNER'S APPROVAL OF ALL PRODUCTS AND MATERIALS PRIOR TO ORDERING OR INSTALLING ANY PART OF ANY SYSTEM.

1.H. SUBMITTALS: PROVIDE PRODUCT SUBMITTALS FOR MATERIAL AND EQUIPMENT SHOWN ON THE DRAWINGS, DESCRIBED IN THE SPECIFICATIONS, AND OTHERWISE REQUIRED FOR THE PROJECT. INCLUDE DIMENSIONS, WEIGHTS, CATALOG NUMBERS, WIRING DIAGRAMS, ROUGH-IN DIMENSIONS AND PERFORMANCE DATA FOR ALL MATERIAL AND EQUIPMENT. CLEARLY HIGHLIGHT ANY DEVIATIONS FROM THESE SPECIFICATIONS OR BASIS OF DESIGN. 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. PROVIDE SUBMITTALS ELECTRONICALLY IN PDF FORMAT , WITH SECTIONS CLEARLY LABELED AND BOOKMARKED.

1.I.TRAINING: PROVIDE MINIMUM 4 HOURS OF OWNER TRAINING ON OPERATION AND MAINTENANCE OF EQUIPMENT AND CONTROLS.

1.J. OPERATION AND MAINTENANCE MANUAL: PROVIDE THE OWNER WITH AN OPERATING AND MAINTENANCE MANUAL, TO INCLUDE MANUFACTURER'S SPECIFICATIONS, OPERATING AND MAINTENANCE INSTRUCTIONS, WARRANTY INFORMATION ON EACH PIECE OF EQUIPMENT, BALANCE REPORT, AS-BUILT CONSTRUCTION AND SHOP DRAWINGS. PROVIDE CONTACT INFORMATION ON NEAREST SOURCE FOR SPARE PARTS AND SERVICE FOR EACH PIECE OF EQUIPMENT. PROVIDE MANUAL BOTH IN HARD COPY AND IN ELECTRONIC PDF FORMAT.

1.K. DEMOLISHING EXISTING ITEMS: ALL DEMO WORK SHALL BE COORDINATED WITH OWNER SO THAT IT IS DONE IN AN APPROVED MANNER, AND SCHEDULED IN A WAY THAT DOES NOT ADVERSELY AFFECT THE OWNER'S OPERATIONS.

1.L. ELECTRICAL WORK: INCLUDES CONTROL WIRING FOR ELECTRICAL EQUIPMENT SPECIFIED HEREIN. WIRING FROM EQUIPMENT POWER INLET, OR FROM OUTLETS PROVIDED IN THE ELECTRICAL DIVISION. SUCH WIRING PROVIDED AS REQUIRED WHETHER SHOWN ON THE DRAWINGS OR NOT. WORK IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATIONS AND APPLICABLE CODES AND THE NATIONAL ELECTRICAL CODE. CONDUCTORS TO BE COPPER ONLY. LOW VOLTAGE CONTROL WIRING IN ACCESSIBLE AREAS IN CONDUIT OR OTHERWISE PROTECTED. ALL CONDUIT AND WIRING IN FINISHED SPACES SHALL BE CONCEALED UNLESS APPROVED OTHERWISE BY THE OWNER. LOW VOLTAGE WIRING TO BE 18 AWG MINIMUM.

2. PRODUCTS:

2.A. VENTILATION:

2.A.1. DUCTS: MANUFACTURED IN ACCORDANCE WITH SMACNA STANDARDS.METAL GAUGES BASED ON 2" WC TABLE. PROVIDE TURNING VANES IN ALL RECTANGULAR ELBOWS. SEAL ALL JOINTS W/ WATER BASED MASTIC. DUCT TAPE IS NOT ACCEPTABLE. EXTERIOR DUCT SELANT SHALL BE SUITABLE FOR EXPOED EXTERIOR USE.

1. INTERIOR: 24GA GALVANIZED STEEL CONSTRUCTION.
2. EXTERIOR: 24GA 316 STAINLESS STEEL CONSTRUCTION.

2.A.2. DUCT INLETS AND OUTLETS: BASIS OF DESIGN:

1. **RG-1**: TITUS PAR. 24"X24" LAY-IN FACE. 14" DIAMETER NECK. SEISMIC CLIPS. COLOR: WHITE.
2. **EG-1**: TITUS PAR. 24"X24" LAY-IN FACE. 12" DIAMETER NECK. SEISMIC CLIPS. COLOR: WHITE.

2.A.3. FLEXIBLE CONNECTIONS: PROVIDE WHERE SHOWN ON THE DRAWINGS TO ISOLATE DUCT SYSTEM FROM SOURCE OF VIBRATION OR NOISE. FABRICATE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS. UL LISTED FIRE RETARDANT NEOPRENE COATED WOVEN GLASS FIBER FABRIC CONFORMING TO NFPA 90A, 30OZ/SQ-YARD MINIMUM DENSITY. 3 INCHES WIDE FABRIC WIDTH CRIMPED INTO 3 INCH WIDE, 24 GAGE GALVANIZED STEEL METAL EDGING STRIP. PROVIDE INSULATING STRIP OVER FLEXIBLE CONNECTION TO BLOCK FROM THE SUN.

2.A.4. DUCT INSULATION: INCLUDES ALL EXHAUST DUCTS FIVE FEET FROM EXTERIOR WALL. DUCTS INSULATED WITH 1-1/2 INCH THICK GLASS-FIBER BLANKET HAVING A MINIMUM DENSITY OF 1 POUND PER CUBIC FOOT AND A MINIMUM THERMAL VALUE OF R-8, WITH THE ADDITION OF VAPOR BARRIER FACING ON OUTSIDE, APPLIED AT THE FACTORY. FACING TO CONSIST OF ALUMINUM FOIL LAMINATED TO A SHEET OF FLAME-RESISTANT 30 POUND PAPER WITH GLASS-FIBER REINFORCING MESH BETWEEN.

2.A.5. EF-37: SEE SCHEDULE ON M-001.

EF-37 OPTIONS: ROOF MOUNTING CURB GREENHECK MODEL GESI. MOTOR WEATHER HOOD. PAINT COATING: HI-PROZ DOUBLE COATING. UPBLAST OUTLET POSITION.

INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

2.A.6. REPLACEMENT MATERIALS: THE MANUFACTURER SHALL PROVIDE A (1) COMPLETE SPARE SET OF BELTS FOR FAN.

3. INSTALLATION: INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND IN THE BEST PRACTICE OF THE CRAFT.

3.A. CLEANING: THOROUGHLY CLEAN ANY DUCTWORK MODIFIED TO ACHIEVE PROPER TEST AND BALANCE. CLEAN EXISTING DUCTS AND DIFFUSERS THAT ARE REMOVED FOR REINSTALLATION. CLEANING SHOULD BE PERFORMED IN ACCORDANCE WITH HOSPITAL ICRA REQUIREMENTS.

3.B. ACCESS: PROVIDE MAINTENANCE ACCESS TO ALL SERVICEABLE AND/OR OPERABLE EQUIPMENT.

3.C. TESTING, ADJUSTING, AND BALANCING (TAB):

SCOPE: BALANCE EF-37 SYSTEM, AHU-18 OSA FLOW RATES FROM 5,200CFM TO 5,600 CFM. REBALANCE AHU-18 PHC WATER FLOW RATES. VERIFY AHU-18 OSA FLOW BEFORE REBANCING. COORDINATE WITH CONTROLS CONTRACTOR AS NEEDED TO BALANCE SYSTEMS.
PERFORM TAB IN ACCORDANCE WITH NEBB STANDARDS. TAB OF MECHANICAL SYSTEMS SHALL OCCUR AT THE COMPLETION OF PROJECT WORK. SUBMIT BALANCING REPORT TO THE OWNER'S REPRESENTATIVE AT THE COMPLETION OF PROJECT. AIRFLOW RATES FOR ROOMS SERVED BY EF-37 AND AHU-18 TO BE BALANCED WITHIN +/- 10% OF THOSE INDICATED ON DRAWINGS.

3.D. LONG CONTROLS INTEGRATION: ALL BAS CONTROLS INTEGRATION WILL BE WITH THE EXISTING LONG BAS SYSTEM ALREADY PRESENT AT THE HOSPITAL.

No.	Date	Item
REVISIONS		

CONSULTANT :

STATE OF ALASKA 49TH DOUGLAS R. MURRAY ME 7870 REGISTERED PROFESSIONAL ENGINEER

PDC ENGINEERS PLAN • DESIGN • CONSTRUCT A RESPEC COMPANY 2700 Gambell St. Ste. 500, Anchorage, AK 99503 907.743.3200 | AECC605

PROJECT : BARTLETT ED VENTILATION IMPROVEMENTS JUNEAU, ALASKA

SHEET TITLE : MECHANICAL SPECIFICATIONS CONSTRUCTION DOCUMENTS

DESIGN	SB
DRAWN	CSB
CHECKED	DM
DATE	07/06/2021

PROJECT No. 21010JN

SHEET NUMBER M-002

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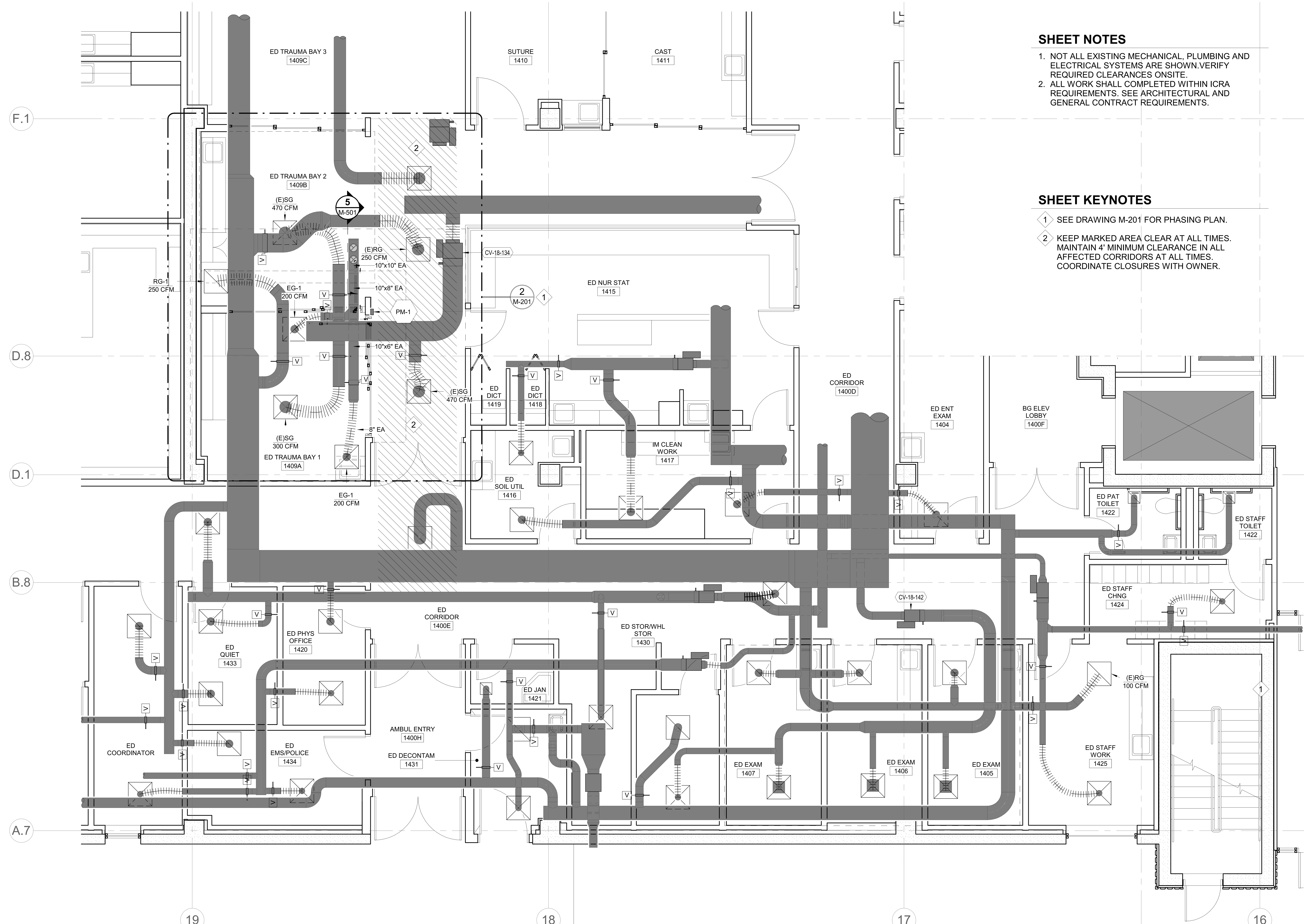

SHEET NOTES

1. NOT ALL EXISTING MECHANICAL, PLUMBING AND ELECTRICAL SYSTEMS ARE SHOWN.VERIFY REQUIRED CLEARANCES ONSITE.
2. ALL WORK SHALL COMPLETED WITHIN ICRA REQUIREMENTS. SEE ARCHITECTURAL AND GENERAL CONTRACT REQUIREMENTS.

SHEET KEYNOTES

1. SEE DRAWING M-201 FOR PHASING PLAN.
2. KEEP MARKED AREA CLEAR AT ALL TIMES. MAINTAIN 4' MINIMUM CLEARANCE IN ALL AFFECTED CORRIDORS AT ALL TIMES. COORDINATE CLOSURES WITH OWNER.

1 / M-101 **FIRST FLOOR PLAN - VENTILATION**

SCALE: 1/4" = 1'-0"

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

1"

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No.	Date	Item

REVISIONS

CONSULTANT:

STATE OF ALASKA 49TH DOUGLAS R. MURRAY ME 7870 7/6/2021 REGISTERED PROFESSIONAL ENGINEER

PDC ENGINEERS
PLAN • DESIGN • CONSTRUCT
A RESPEC COMPANY
2700 Gambell St. Ste. 500, Anchorage, AK 99503
907.743.3200 | AECC605

PROJECT: BARTLETT ED VENTILATION IMPROVEMENTS
JUNEAU, ALASKA

SHEET TITLE: FIRST FLOOR PLAN
CONSTRUCTION DOCUMENTS

DESIGN	SB
DRAWN	CSB
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DATE	07/06/2021

PROJECT No.
21010JN

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M-101

IF THIS BAR DOES NOT MEASURE EXACTLY ONE INCH, THE SCALE OF THIS DRAWING HAS BEEN ALTERED DURING IT'S PRODUCTION. AFFECTING ALL LABELED SCALES
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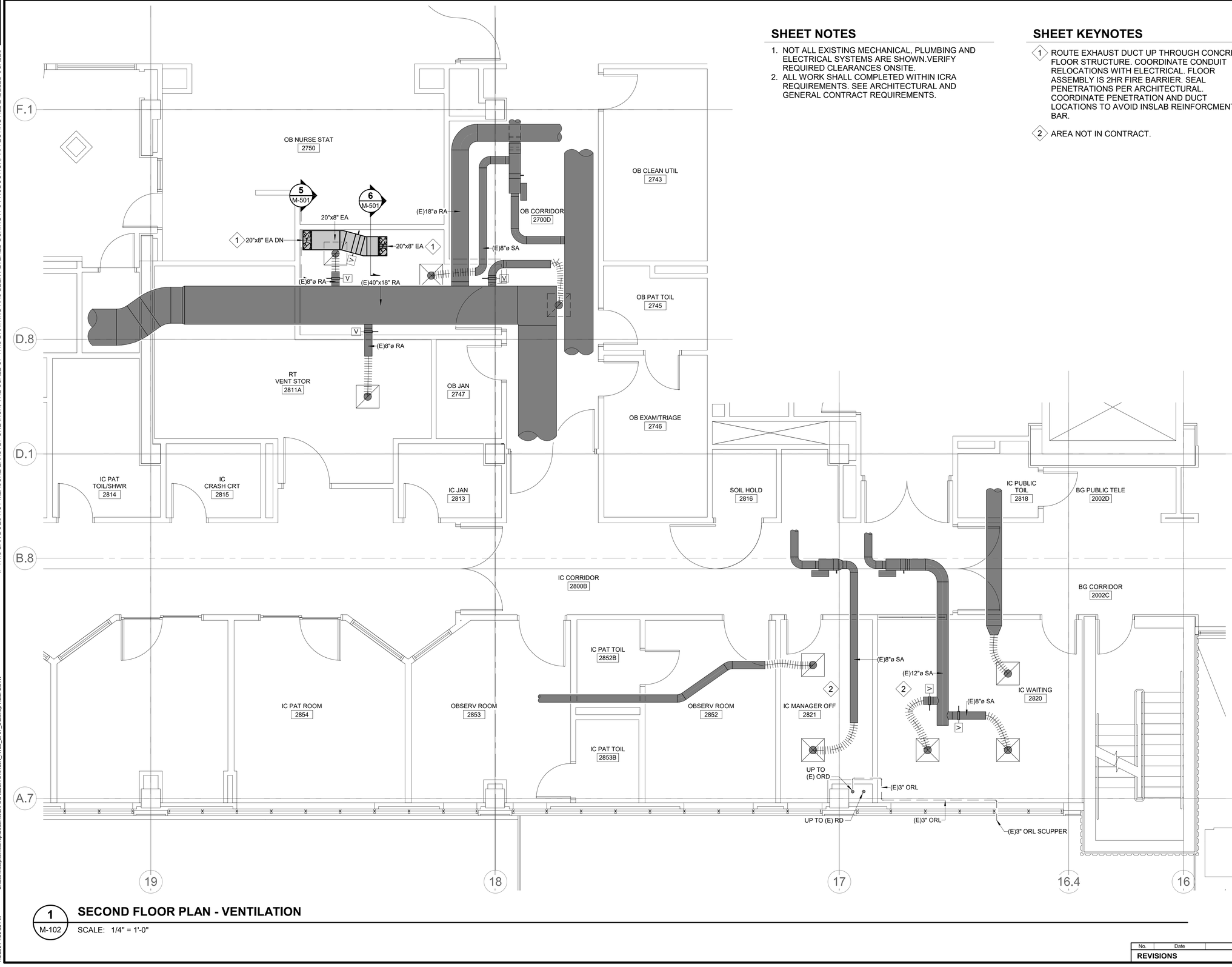
SHEET NOTES

1. NOT ALL EXISTING MECHANICAL, PLUMBING AND ELECTRICAL SYSTEMS ARE SHOWN.VERIFY REQUIRED CLEARANCES ONSITE.
2. ALL WORK SHALL COMPLETED WITHIN ICRA REQUIREMENTS. SEE ARCHITECTURAL AND GENERAL CONTRACT REQUIREMENTS.

SHEET KEYNOTES

1. ROUTE EXHAUST DUCT UP THROUGH CONCRETE FLOOR STRUCTURE. COORDINATE CONDUIT RELOCATIONS WITH ELECTRICAL. FLOOR ASSEMBLY IS 2HR FIRE BARRIER. SEAL PENETRATIONS PER ARCHITECTURAL. COORDINATE PENETRATION AND DUCT LOCATIONS TO AVOID INSLAB REINFORCMENT BAR.
2. AREA NOT IN CONTRACT.



1 M-102 **SECOND FLOOR PLAN - VENTILATION**

SCALE: 1/4" = 1'-0"

No.	Date	Item
REVISIONS		

CONSULTANT :

STATE OF ALASKA 49TH
DOUGLAS R. MURRAY
ME 7870
7/6/2021
REGISTERED PROFESSIONAL ENGINEER

PDC ENGINEERS
PLAN • DESIGN • CONSTRUCT
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907.743.3200 | AECC 603

PROJECT :
BARTLETT ED VENTILATION IMPROVEMENTS
JUNEAU, ALASKA

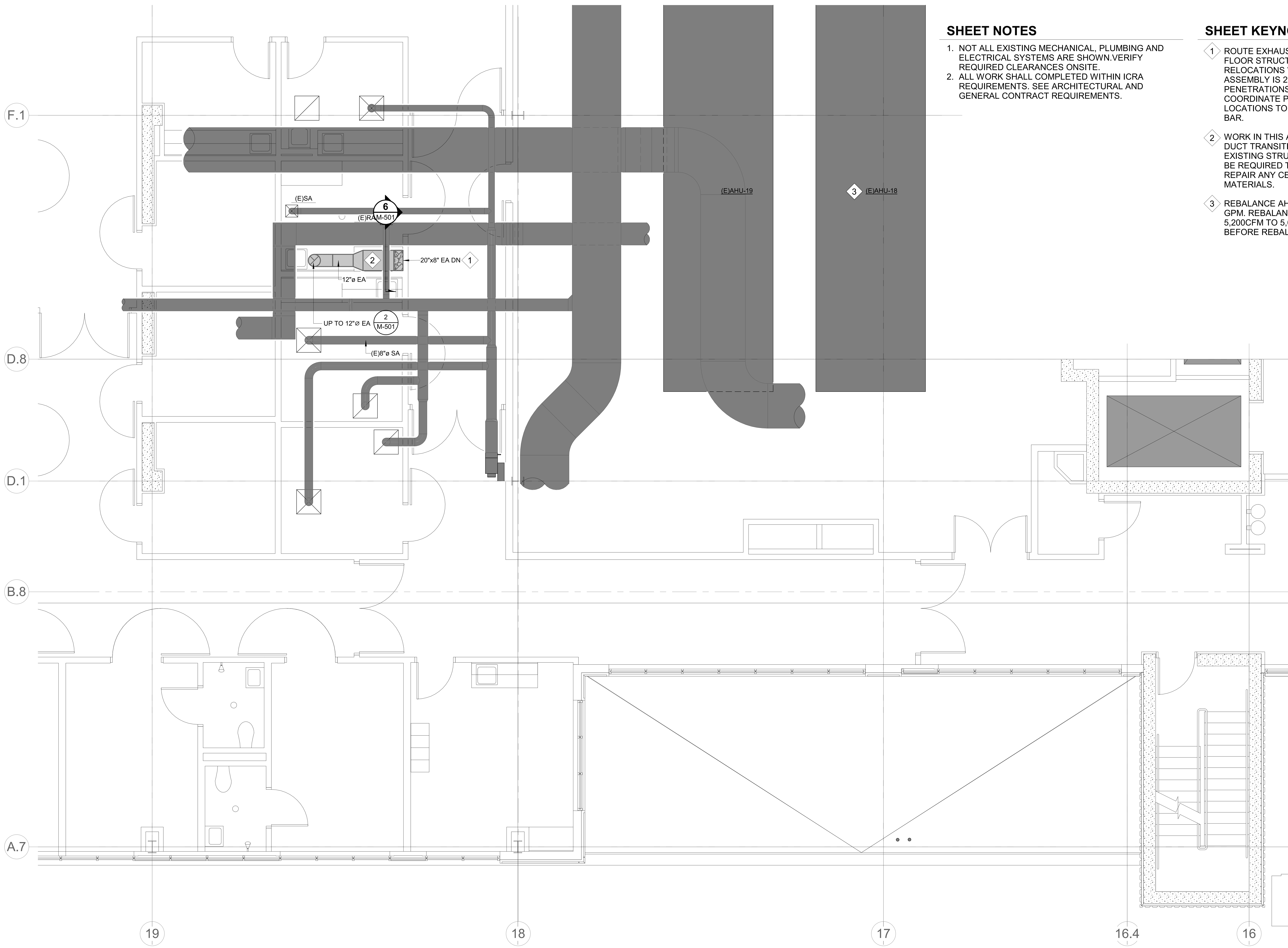
SHEET TITLE :
SECOND FLOOR PLAN - VENTILATION
CONSTRUCTION DOCUMENTS

DESIGN	SB
DRAWN	CSB
CHECKED	DM
DATE	07/06/2021

PROJECT No.
21010JN

SHEET NUMBER
M-102

1"
IF THIS BAR DOES NOT MEASURE EXACTLY ONE INCH, THE SCALE OF THIS DRAWING HAS BEEN ALTERED DURING IT'S PRODUCTION. AFFECTING ALL LABELED SCALES



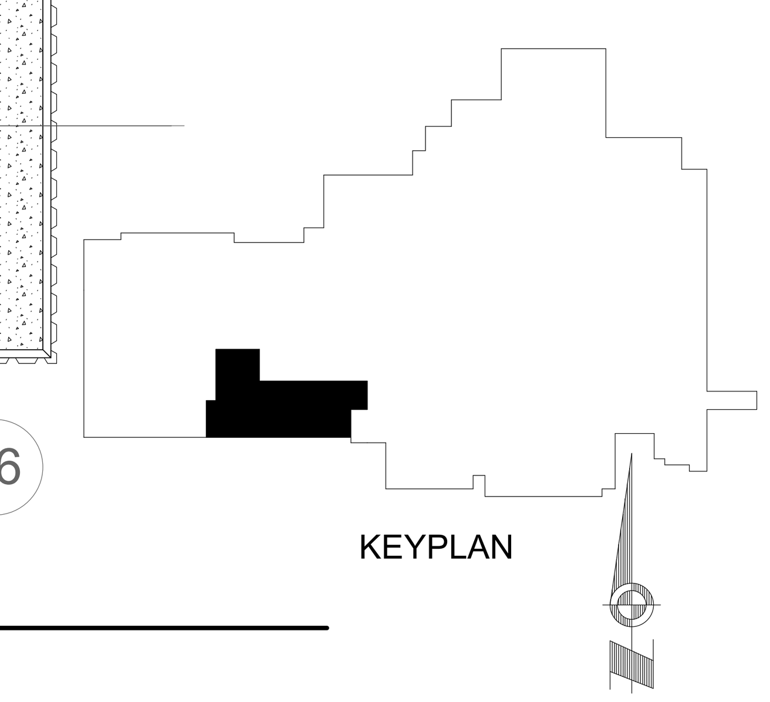
SHEET NOTES

1. NOT ALL EXISTING MECHANICAL, PLUMBING AND ELECTRICAL SYSTEMS ARE SHOWN.VERIFY REQUIRED CLEARANCES ONSITE.
2. ALL WORK SHALL COMPLETED WITHIN ICRA REQUIREMENTS. SEE ARCHITECTURAL AND GENERAL CONTRACT REQUIREMENTS.

SHEET KEYNOTES

1. ROUTE EXHAUST DUCT UP THROUGH CONCRETE FLOOR STRUCTURE. COORDINATE CONDUIT RELOCATIONS WITH ELECTRICAL. FLOOR ASSEMBLY IS 2HR FIRE BARRIER. SEAL PENETRATIONS PER ARCHITECTURAL. COORDINATE PENETRATION AND DUCT LOCATIONS TO AVOID INSLAB REINFORCMENT BAR.
2. WORK IN THIS AREA IS ABOVE HARD LID. PROVIDE DUCT TRANSITIONS AS NEEDED TO AVOID EXISTING STRUCTURE. TEMPORARY ACCESS WILL BE REQUIRED TO ACCESS CEILING SPACE. REPAIR ANY CEILING DAMAGE WITH LIKE MATERIALS.
3. REBALANCE AHU-18 PHC HEATING SUPPLY TO 7 GPM. REBALANCE AHU-18 OSA FLOW RATE FROM 5,200CFM TO 5,600 CFM VERIFY FLOW RATES BEFORE REBALANCING.

1
M-103
THIRD FLOOR PLAN - VENTILATION
SCALE: 1/4" = 1'-0"



KEYPLAN

No.	Date	Item
REVISIONS		

CONSULTANT :

STATE OF ALASKA
49TH
DOUGLAS R. MURRAY
ME 7870
REGISTERED PROFESSIONAL ENGINEER

PDC ENGINEERS
PLAN • DESIGN • CONSTRUCT
A RESPEC COMPANY
2700 Gambell St. Ste. 500, Anchorage, AK 99503
907.743.3200 | AECC605

PROJECT :
BARTLETT ED VENTILATION IMPROVEMENTS
JUNEAU, ALASKA

SHEET TITLE :
THIRD FLOOR PLAN - VENTILATION
CONSTRUCTION DOCUMENTS

DESIGN	SB
DRAWN	CSB
CHECKED	DM
DATE	07/06/2021

PROJECT No.
21010JN
SHEET NUMBER
M-103

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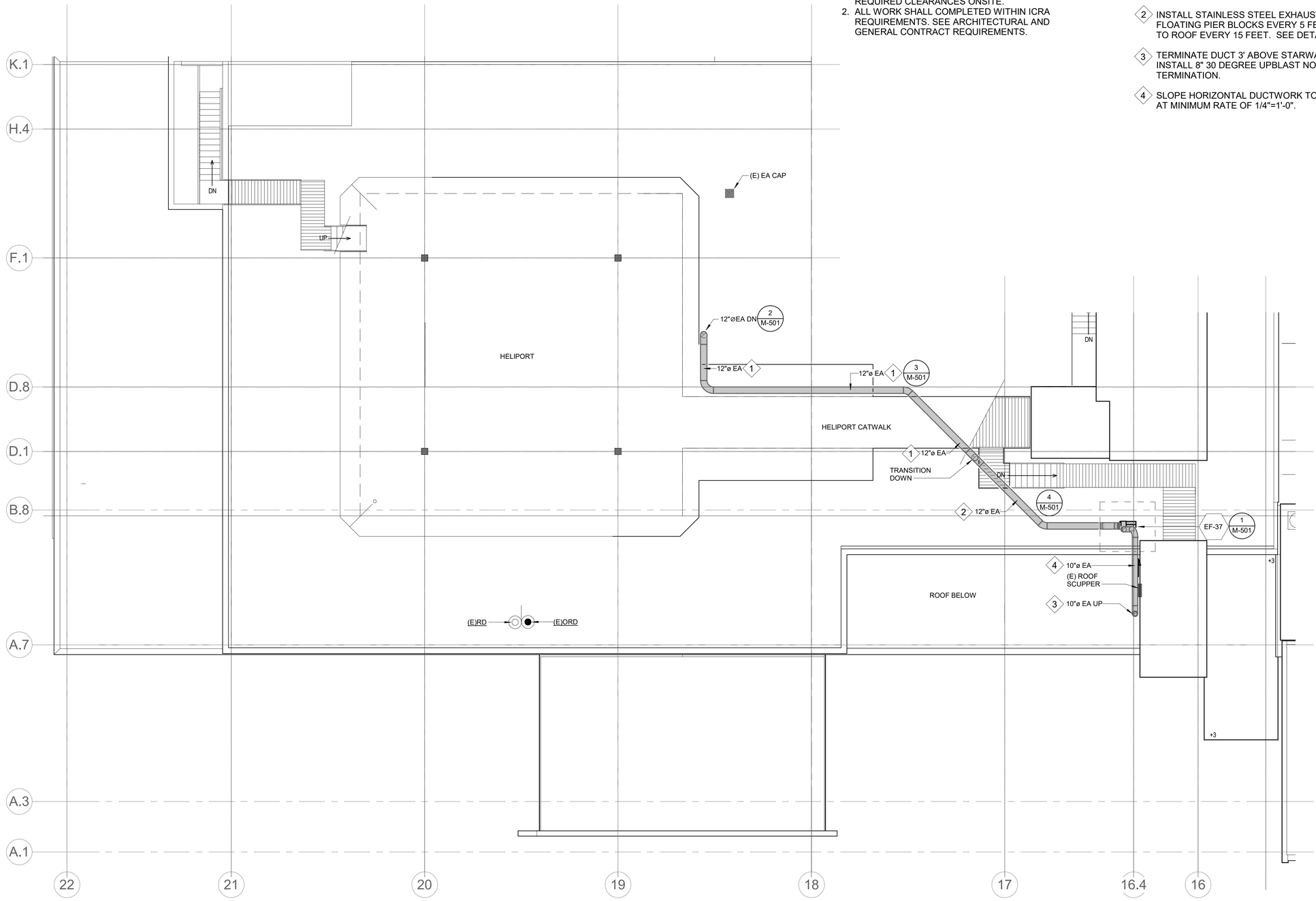
SHEET NOTES

1. NOT ALL EXISTING MECHANICAL, PLUMBING AND ELECTRICAL SYSTEMS ARE SHOWN.VERIFY REQUIRED CLEARANCES ONSITE.
2. ALL WORK SHALL COMPLETED WITHIN ICRA REQUIREMENTS. SEE ARCHITECTURAL AND GENERAL CONTRACT REQUIREMENTS.

SHEET KEYNOTES

1. HANG STAINLESS STEEL EXHAUST DUCT FROM CATWALK STRUCTURE. SEE DETAIL 4, M-501.
2. INSTALL STAINLESS STEEL EXHAUST DUCT ON FLOATING PIER BLOCKS EVERY 5 FEET SECURE TO ROOF EVERY 15 FEET. SEE DETAIL 5, M-501.
3. TERMINATE DUCT 3' ABOVE STARWAY PARAPET. INSTALL 8" 30 DEGREE UPBLAST NOZZLE AT TERMINATION.
4. SLOPE HORIZONTAL DUCTWORK TOWARDS EF-37 AT MINIMUM RATE OF 1/4"=1'-0".



1 M-104 **ROOF PLAN**

SCALE: 1/8" = 1'-0"

CONSULTANT :

STATE OF ALASKA 49TH
DOUGLAS R. MURRAY
ME 7870
7/6/2021
REGISTERED PROFESSIONAL ENGINEER

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2700 Gambell St, Ste. 200, Anchorage, AK 99503
907.743.3200 | AECC603

PROJECT :
BARTLETT ED VENTILATION IMPROVEMENTS
JUNEAU, ALASKA

SHEET TITLE :
ROOF PLAN
CONSTRUCTION DOCUMENTS

DESIGN	SB
DRAWN	CSB
CHECKED	DM
DATE	07/06/2021

PROJECT No.
21010JN

SHEET NUMBER
M-104

No.	Date	Item
REVISIONS		

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

1"

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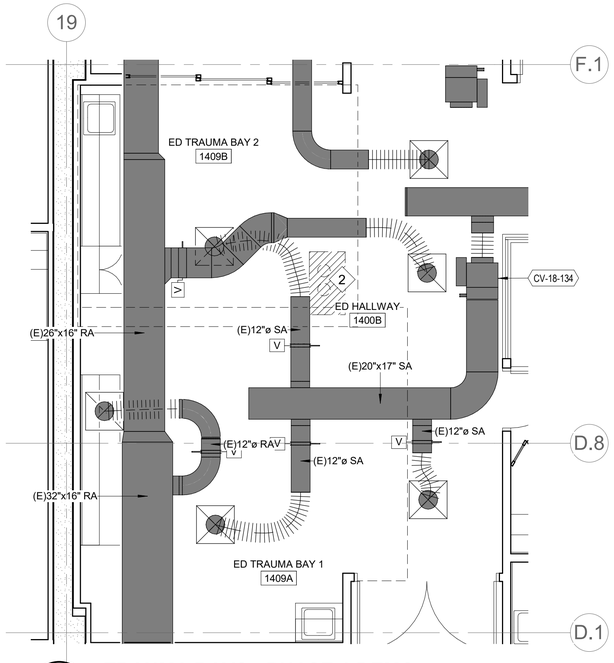
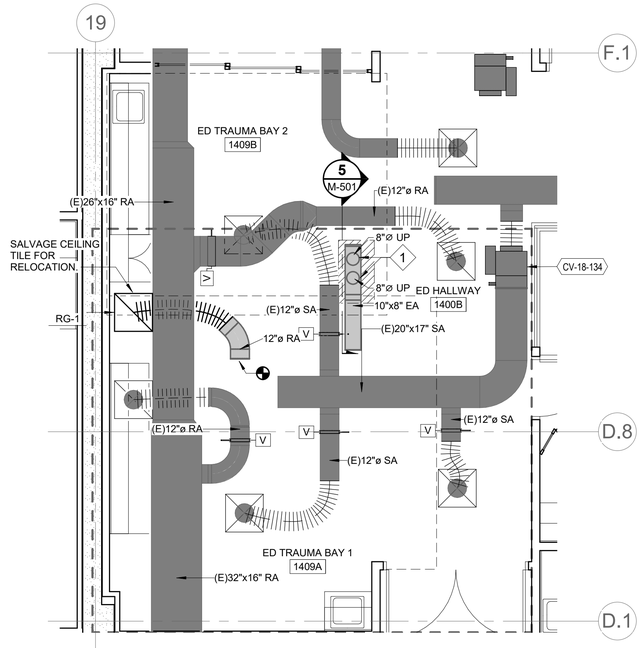
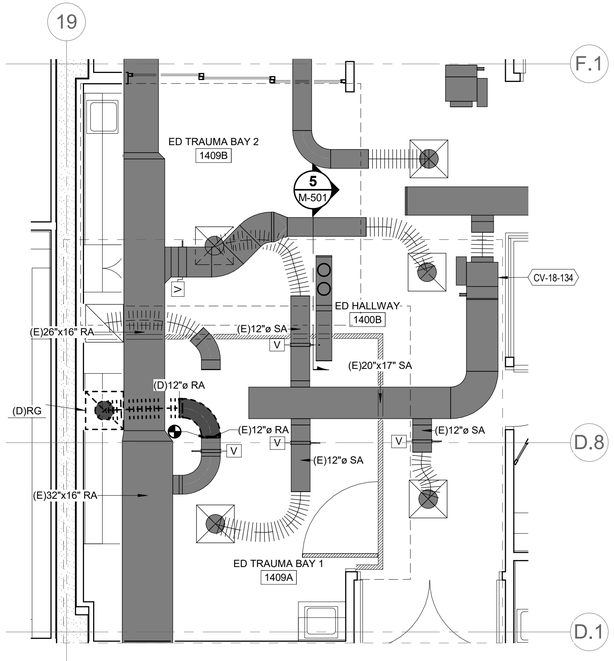


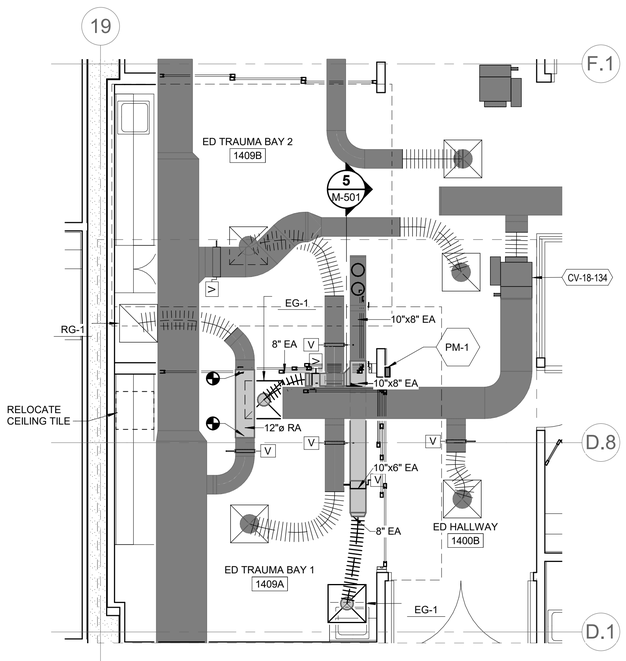
1 TRAUMA BAYS - PHASE 1 DEMO
M-201 SCALE: 1/4" = 1'-0"



2 TRAUMA BAYS - PHASE 1 RENO
M-201 SCALE: 1/4" = 1'-0"



3 TRAUMA BAYS - PHASE 2 DEMO
M-201 SCALE: 1/4" = 1'-0"



4 TRAUMA BAYS - PHASE 2 RENO
M-201 SCALE: 1/4" = 1'-0"

SHEET NOTES

1. COORDINATE ALL WORKSPACE CLOSURES WITH OWNER.
2. NO MORE THAN 1 TRAUMA BAY SHALL BE CLOSED FOR RENOVATION AT ANY TIME.
3. SEE M-101 FOR REQUIREMENTS OF MAINTAINING STAFF ACCESS AND FINAL TAB ADJUSTMENTS.

SHEET KEYNOTES

1. EXHAUST DUCT ROUTED UP THROUGH CONCRETE FLOOR STRUCTURE. COORDINATE CONDUIT RELOCATIONS WITH ELECTRICAL. FLOOR ASSEMBLY IS 2HR FIRE BARRIER. SEAL PENETRATIONS PER ARCHITECTURAL. COORDINATE PENETRATION AND DUCT LOCATIONS TO AVOID INSLAB REINFORCMENT BAR. SEE STRUCTURAL DETAILS.
2. SAWCUT CEILING STRUCTURE PER ARCHITECTURAL.

CONSULTANT :

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49TH
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7/6/2021
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907.743.3200 | AECC603

PROJECT :
BARTLETT ED VENTILATION IMPROVEMENTS
JUNEAU, ALASKA

SHEET TITLE :
FIRST FLOOR TRAUMA BAY PHASING
CONSTRUCTION DOCUMENTS

DESIGN	SB
DRAWN	CSB
CHECKED	DM
DATE	07/06/2021

PROJECT No.
21010JN

SHEET NUMBER
M-201

No.	Date	Item
REVISIONS		

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

1"

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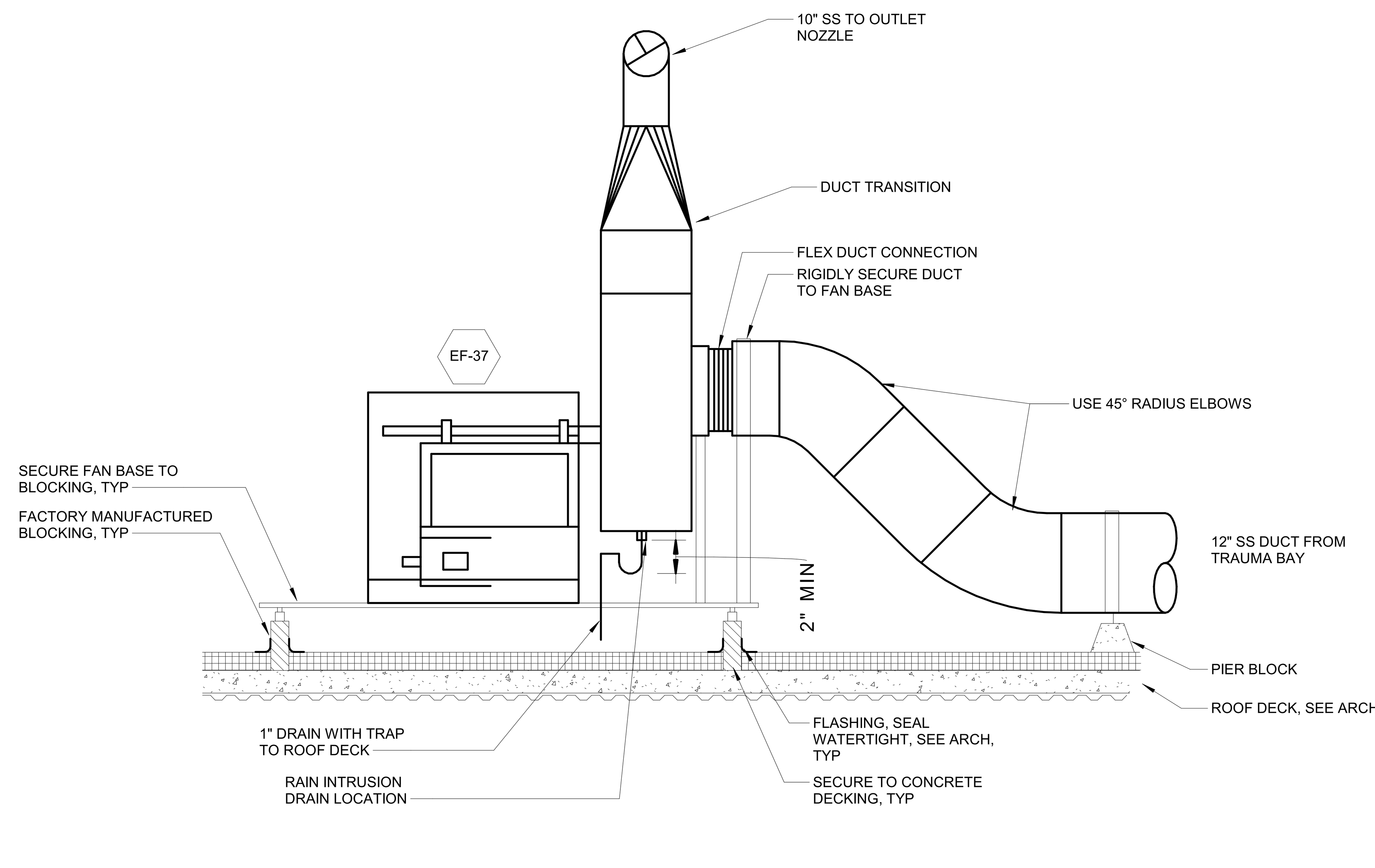
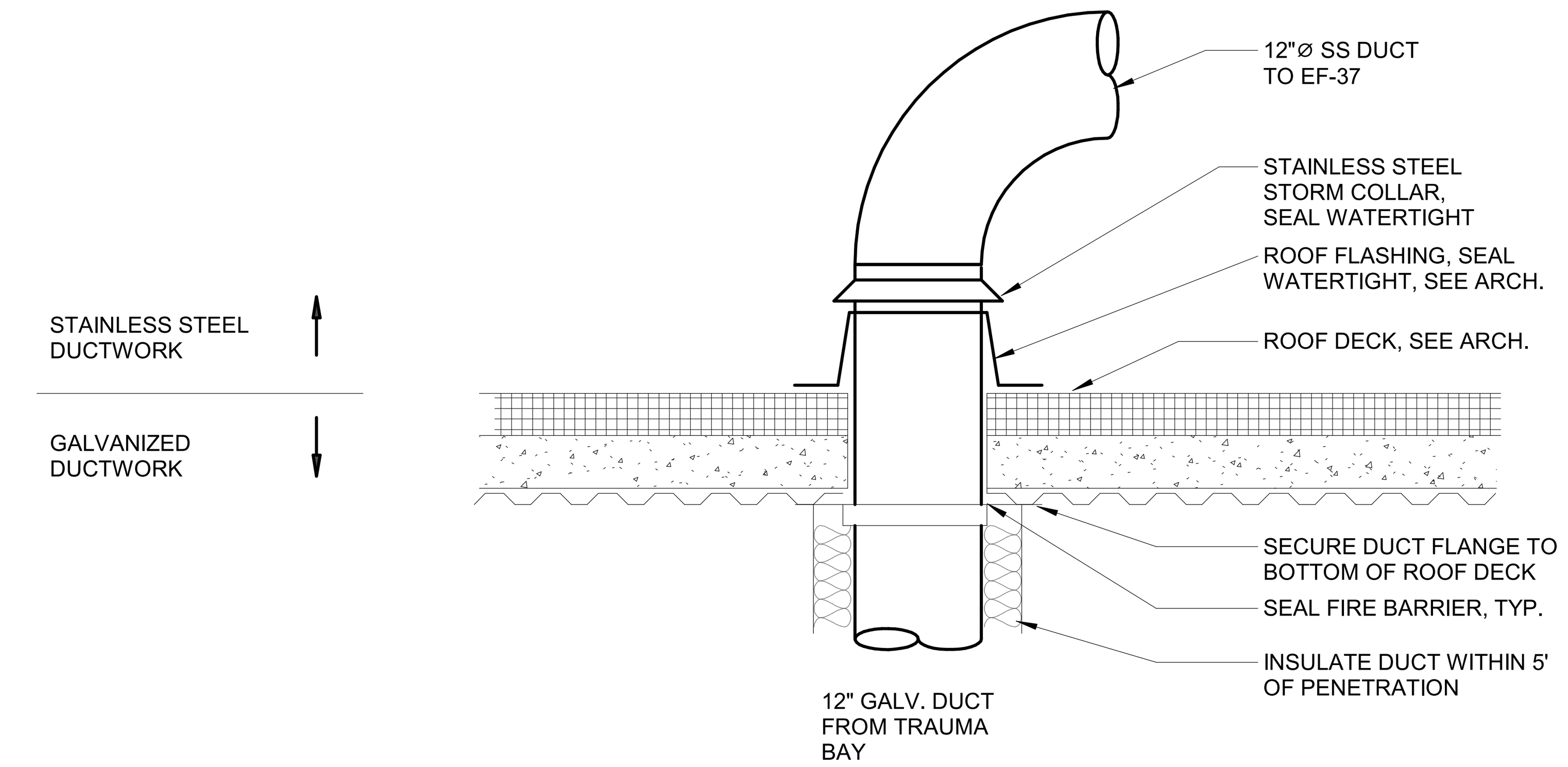
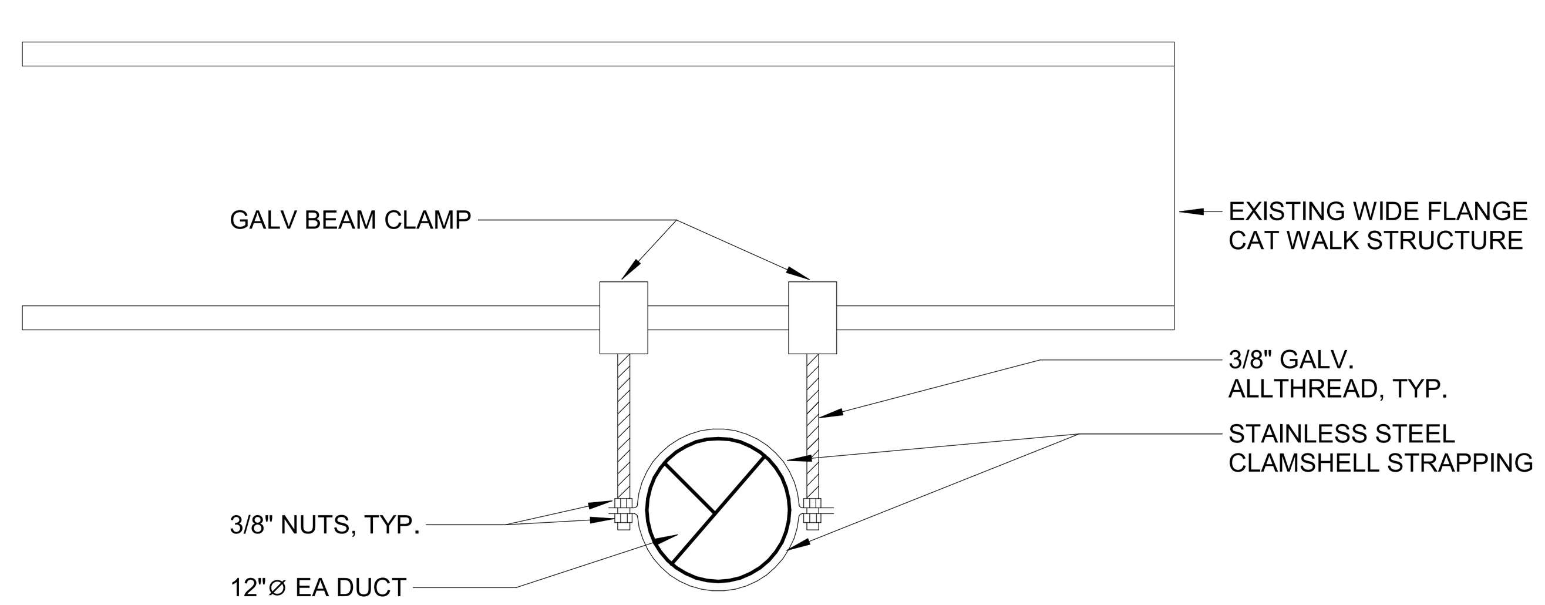


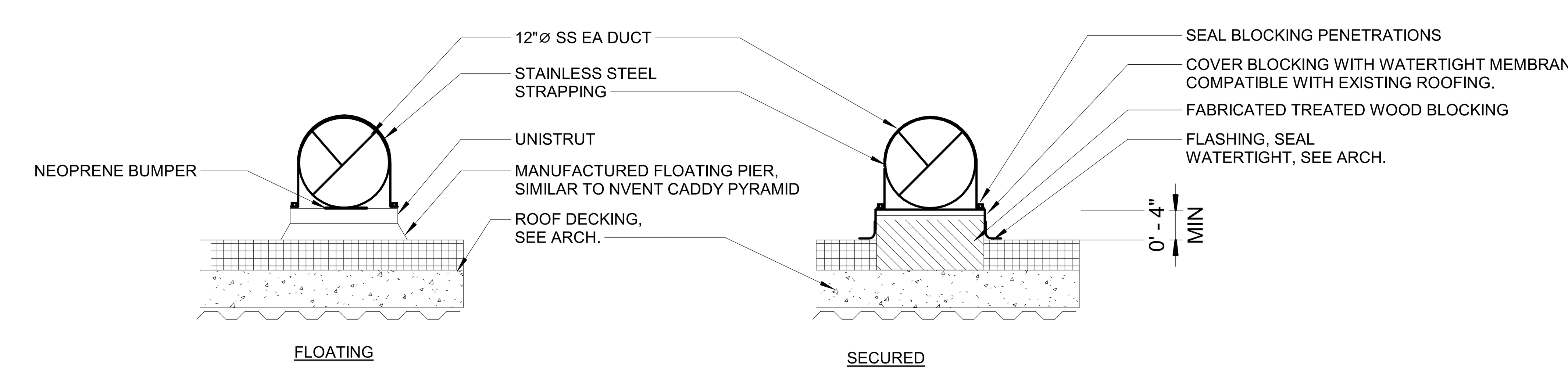
1 / M-501 **EF-37 DETAIL**
SCALE: NOT TO SCALE



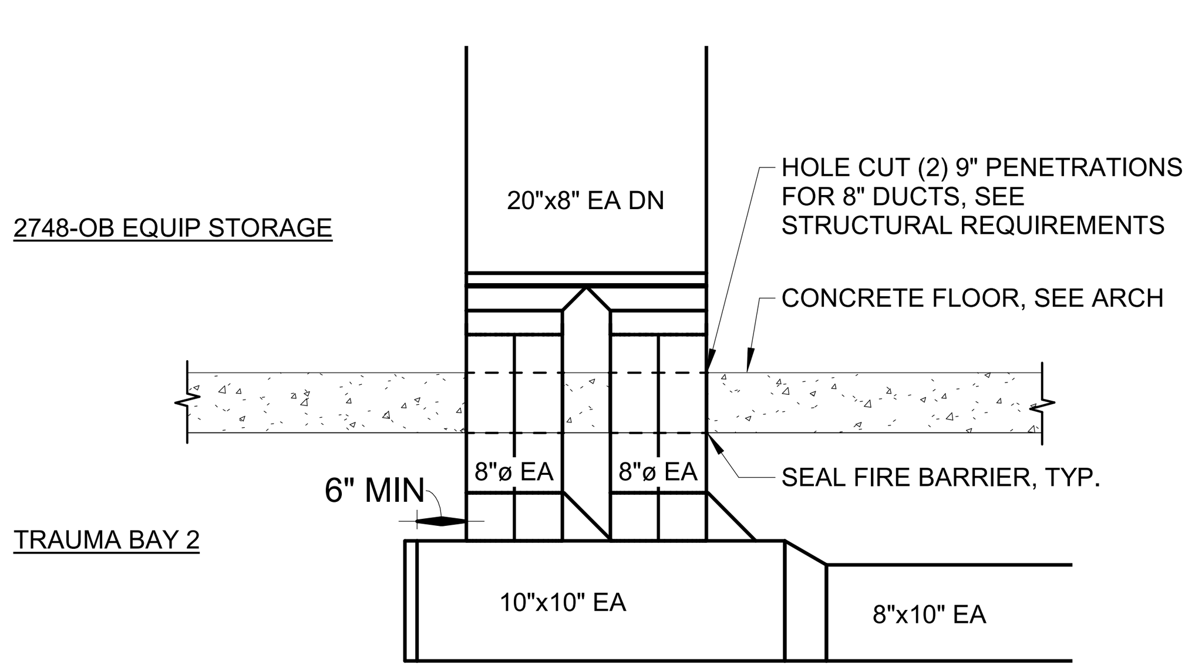
2 / M-501 **EXHAUST DUCT ROOF PENETRATION DETAIL**
SCALE: NOT TO SCALE



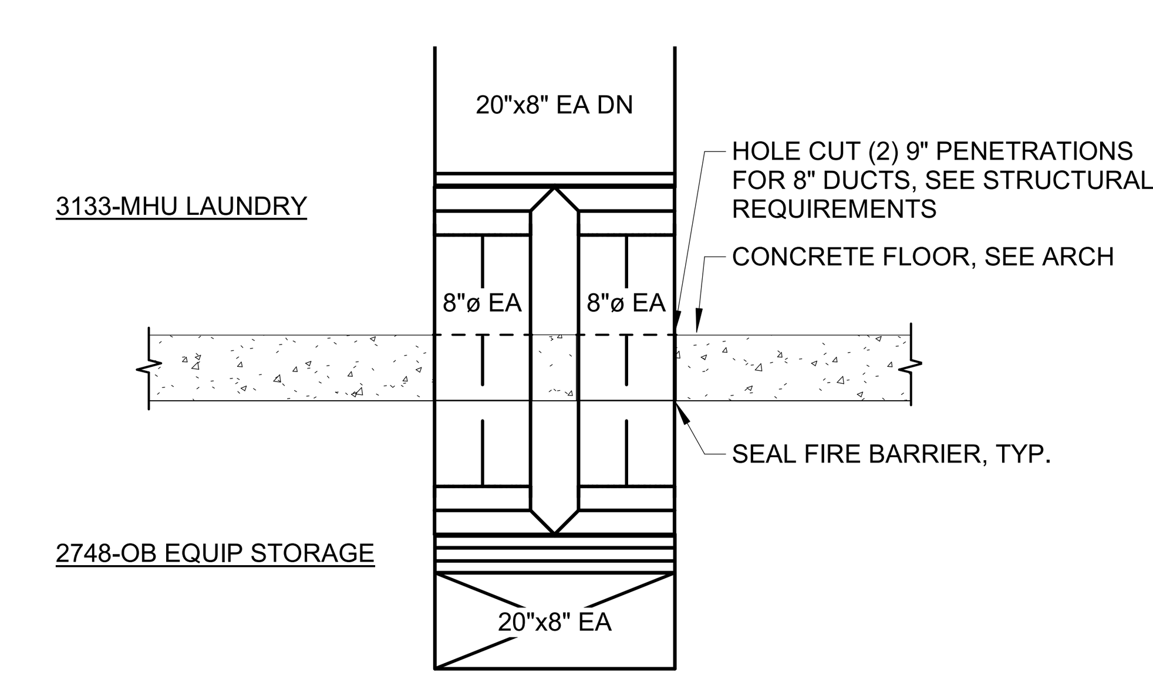
3 / M-501 **EXHAUST DUCT HANGER DETAIL**
SCALE: NOT TO SCALE



4 / M-501 **EXHAUST DUCT PIER BLOCK DETAIL**
SCALE: NOT TO SCALE



5 / M-501 **EF-37 SECOND FLOOR PENETRATION**
SCALE: 3/4" = 1'-0"



6 / M-501 **EF-37 THIRD FLOOR PENETRATION**
SCALE: 3/4" = 1'-0"

IF THIS BAR DOES NOT MEASURE EXACTLY ONE INCH, THE SCALE OF THIS DRAWING HAS BEEN ALTERED DURING IT'S PRODUCTION, AFFECTING ALL LABELED SCALES 1"

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No.	Date	Item
REVISIONS		

CONSULTANT :

STATE OF ALASKA 49TH DOUGLAS R. MURRAY ME 7870 7/6/2021 REGISTERED PROFESSIONAL ENGINEER

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2700 Gambell St. Ste. 500, Anchorage, AK 99503
907.743.3200 | AECC605

PROJECT :
BARTLETT ED VENTILATION IMPROVEMENTS
JUNEAU, ALASKA

SHEET TITLE :
MECHANICAL DETAILS
CONSTRUCTION DOCUMENTS

DESIGN	SB
DRAWN	CSB
CHECKED	DM
DATE	07/06/2021

PROJECT No. 21010JN
SHEET NUMBER
M-501

PROJECT NOTES:

1. REMOVE AND REINSTALL EXISTING CEILING MATERIALS WHEN INSTALLING NEW EQUIPMENT.

LEGEND

SHEET NOTE SYMBOLS:

- (E) EXISTING TO REMAIN
- (N) NEW
- (X) REMOVE

SERVICE EQUIPMENT:

- T TRANSFORMER
- PANELBOARD

POWER:

- RECEPTACLE RACEWAY
- EQUIPMENT CONNECTION
- J JUNCTION BOX
- MOTOR CONNECTION
- MOTOR STARTER
- COMBINATION STARTER/DISCONNECT
- DISCONNECT

LIGHTING:

- SURFACE OR SUSPENDED LINEAR LUMINAIRE
- RECESSED TROFFER OR LINEAR LUMINAIRE
- RECESSED DOWNLIGHT LUMINAIRE
- CEILING MOUNTED EXIT LUMINAIRE
- STRIP LUMINAIRE

LIGHTING CONTROLS:

- O OCCUPANCY SENSOR

FIRE ALARM:

- CABINET
- 2 SMOKE DETECTOR
- CEILING SPEAKER

SECURITY DEVICES:

- SECURITY CAMERA

NURSE CALL:

- NURSE CALL DOME LIGHT

CONDUIT & CONDUCTORS:

- HOME RUN
- CONDUIT: 1/2" UON.
- UNGROUNDED CONDUCTORS (#12 AWG)
- NEUTRAL: #10 WITH DOT, #12 OTHERWISE
- GROUND CONDUCTOR

CONDUCTORS NOT SHOWN WHERE ONLY #12 NEUTRAL AND UNGROUNDED CONDUCTOR ARE REQUIRED

PANEL EQ43B1 (E)

SIZE: 225 AMPS | VOLTS/PHASE: 480Y/277V, 3 PH | MAIN: MLO | LOCATION: BG MECH 3201 | MOUNT: SURFACE

	CKT NO	DESCRIPTION	BREAKER AMP/POLE	KVA CKT	KVA AØ	KVA BØ	KVA CØ	KVA CKT	BREAKER AMP/POLE	DESCRIPTION	CKT NO	
(X)	1	SPARE (BAD CIRCUIT BREAKER)	100/3						100/3	AHU-18 SUPPLY AIR VED	2	
	3	----	--						--	----	4	
	5	----	--						--	----	6	
	7	MECH AHU-19	80/3						20/3	MECH CWP-4	8	
	9	----	--						--	----	10	
	11	----	--						--	----	12	
	13	MECH EXHAUST FAN EF-21	15/3						50/3	MECH WCU-4	14	
	15	----	--						--	----	16	
	17	----	--						--	----	18	
	19	MECH EXHAUST FAN EF-23	20/3						15/3	EXHAUST FAN EF-37	20	(N)
	21	----	--						--	----	22	
	23	----	--						--	----	24	
	25	MECHA EXHAUST FAN EF-22	15/3						15/3	SPARE	26	
	27	----	--						--	----	28	
	29	----	--						--	----	30	
	31	AHU-18 RETURN FAN	50/3						20/3	SPARE	32	
	33	----	--						--	----	34	
	35	----	--						--	----	36	
	37	AHU-19 RETURN FAN	20/3						20/3	SPARE	38	
	39	----	--						--	----	40	
	41	----	--						--	----	42	

NOTES:

1. PANEL EQ43B1 IS FED WITH STANDBY POWER GENERATION (PRIORITY 3).
2. PANEL EQ43B1 MODEL: SQUARE D NF.

PANEL EQ21B1 (E)

SIZE: 100 AMPS | VOLTS/PHASE: 480Y/277V, 3 PH | MAIN: MLO | LOCATION: BG ELECT 1204 | MOUNT: SURFACE

CKT NO	DESCRIPTION	BREAKER AMP/POLE	KVA CKT	KVA AØ	KVA BØ	KVA CØ	KVA CKT	BREAKER AMP/POLE	DESCRIPTION	CKT NO	
1	MECH HEAT TRACE NEW ADDITION ROOF	20/2						20/1	EQUIP DRY SPRINKLER 1421 COMP.	2	
3	----	--						20/1	MECH LEVEL 1 FIRE/SMOKE DAMPERS	4	
5	MECH LEVEL 3 FIRE/SMOKE DAMPERS	20/1						20/1	MECH DDC PANEL ROOM 3201	6	
7	MECH LEVEL 3 FIRE/SMOKE DAMPERS	20/1						20/1	MECH DDC PANEL ROOM 3201	8	
9	MECH LEVEL 3 MECH ROOM DDC PANEL	20/1						20/1	MECH DDC PANEL ROOM 3201	10	
11	ELEV SHAFT FA LOUVER	20/1						20/1	MECH LEVEL 1 FIRE/SMOKE DAMPERS	12	
13	MECH LEVEL 3 REMODEL F/S DAMPERS	20/1						20/1	MECH LEVEL 1 FIRE/SMOKE DAMPERS	14	
15	MECH LEVEL 3 REMODEL F/S DAMPERS	20/1						20/1	MECH LEVEL 2 FIRE/SMOKE DAMPERS	16	
17	MECH HEAT TRACE FOOF	20/2						20/1	MECH LEVEL 2 FIRE/SMOKE DAMPERS	18	
19	----	--						20/1	ROOMS 1405,1406,1407 PRESSURE MONITOR	20	(N)
21	ELEV PIT SUMP PUMP	20/1							SPACE	22	
23	ELEV PIT GFI RECEPT AND LIGHTS	20/1								24	
25	SPARE	20/1								26	
27		20/1								28	
29		20/1								30	

MECHANICAL EQUIPMENT SCHEDULE

DESIGNATION			LOAD					CIRCUITING				CONTROL		
ITEM	DESCRIPTION	LOCATION	HP	KW	AMPS	VOLTS	PHASE	RATING	CONDUCTORS	DISCONNECT SWITCH	DISCONNECT FUSE	STARTER SIZE	CONTROL	REMARKS
EF-37	EXHAUST FAN	ROOF	1/4			480	3	15/3	3 NO. 12, 1 NO. 12 GND	30A		NEMA 0		SEE MECHANICAL
PM-1	PRESSURE MONITOR					24	1							

HAIGHT & ASSOCIATES
CONSULTING ELECTRICAL ENGINEERS
526 Main Street
Juneau, Alaska 99801
(907) 586-9788

BARTLETT REGIONAL HOSPITAL
ED VENTILATION IMPROVEMENTS
JUNEAU, ALASKA

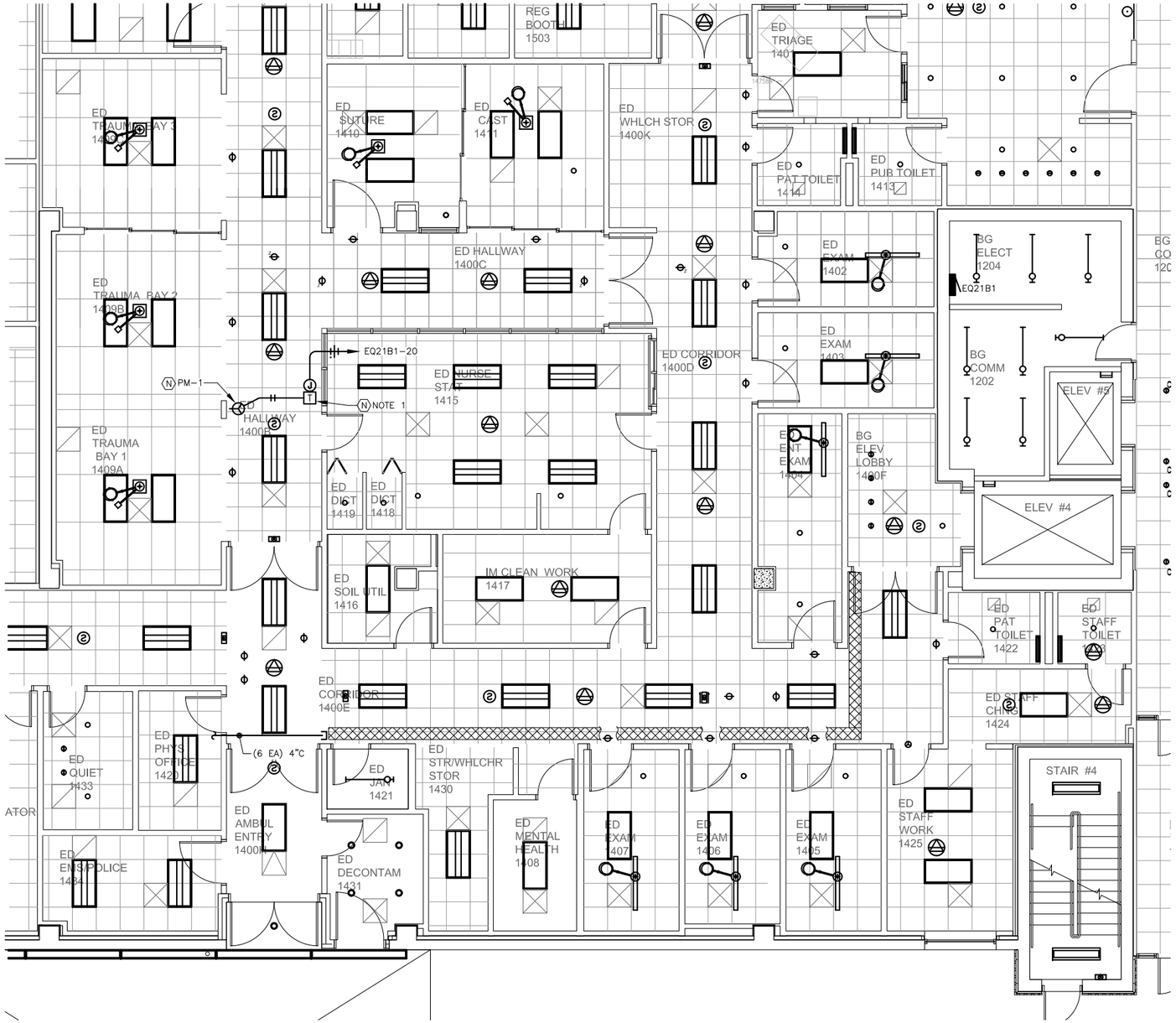
LEGEND, PANEL SCHEDULES, MECHANICAL EQUPMENT SCHEDULE

REVISION DESCRIPTION	DATE

SHEET NUMBER
E100

SCALE: AS NOTED
DATE: June 2021

Plotted 6/11/2021 9:30 AM by Peggy G:\SHARED DRIVES\PROJECTS\187 WILSON ENGINEERING\35 BRH EMERGENCY DEPARTMENT VENTILATION\DRAWINGS\WORKING\E100.DWG

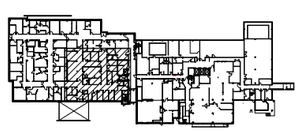


1 LEVEL 1 – ENLARGED PLAN

SCALE: 0 2' 4' 8' 16'

NOTES:

1. PROVIDE A 120:12 VAC, 100VA TRANSFORMER TO PROVIDE 24VAC CIRCUITING TO THE NEW PRESSURE MONITOR.
2. THE CEILING PLAN WITH THE EXISTING LUMINAIRES AND DEVICES IS ILLUSTRATED. REMOVE AND REINSTALL CEILING OBJECTS AS NEEDED TO COORDINATE WITH VENTILATION DUCTWORK ADDITIONS AND MODIFICATIONS. SEE MECHANICAL.



KEY PLAN

HAIGHT & ASSOCIATES
CONSULTING ELECTRICAL ENGINEERS
526 Main Street
Juneau, Alaska 99801
(907) 586-9788

BARTLETT REGIONAL HOSPITAL
ED VENTILATION IMPROVEMENTS
JUNEAU, ALASKA

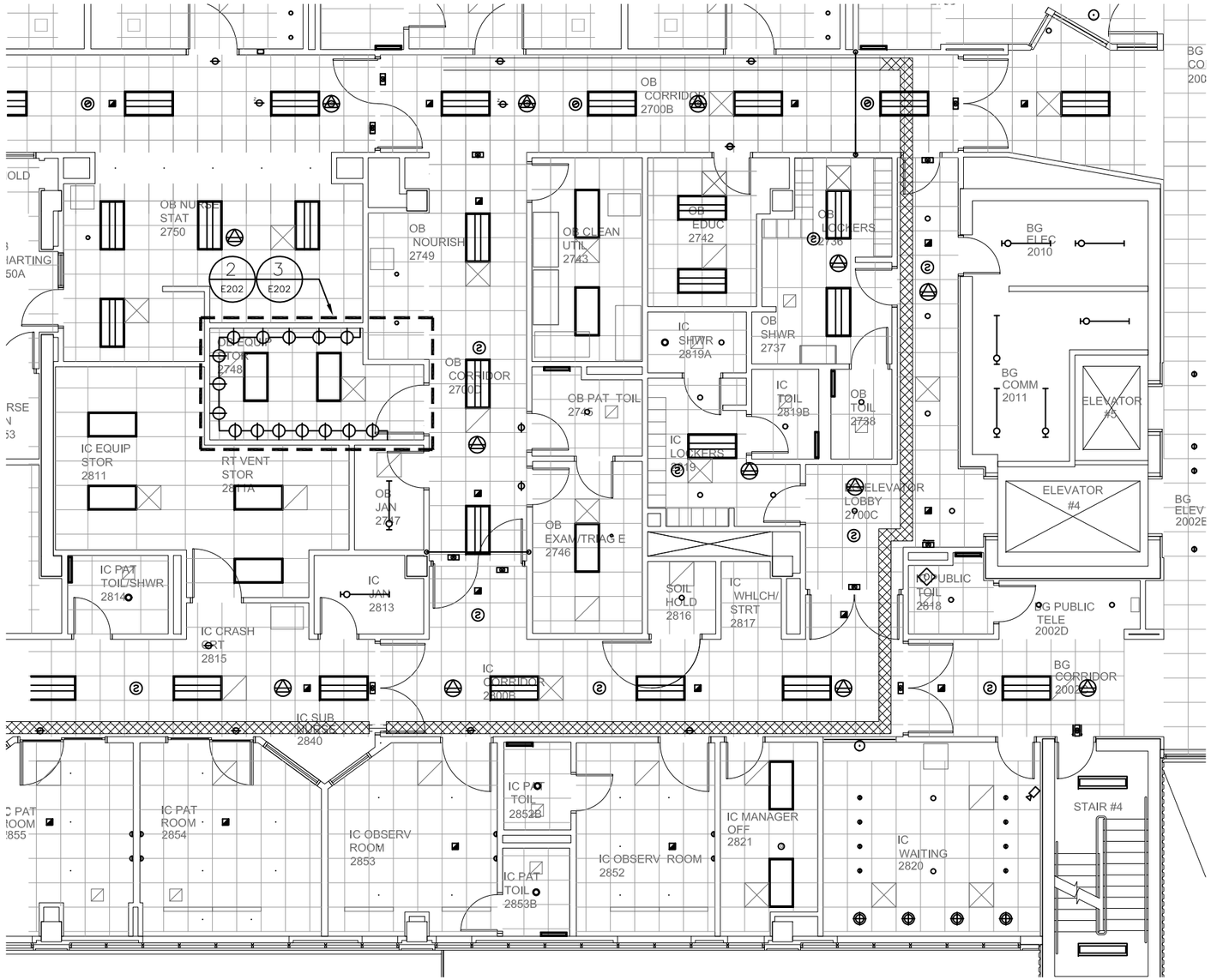
LEVEL 1 – ENLARGED PLAN

REVISION DESCRIPTION	DATE

SHEET NUMBER
E201

SCALE: AS NOTED
DATE: June 2021

Plotted 6/11/2021 9:30 AM by Peggy G:\SHARED DRIVES\PROJECTS\187 WILSON ENGINEERING\35 BRH EMERGENCY DEPARTMENT VENTILATION\DRAWINGS\WORKING\E201.DWG

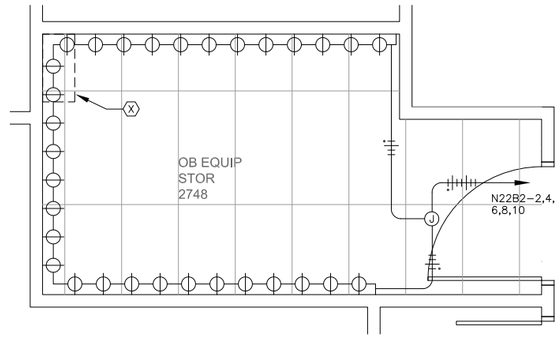


1 LEVEL 2 – ENLARGED PLAN

SCALE: 0 2' 4' 8' 16'

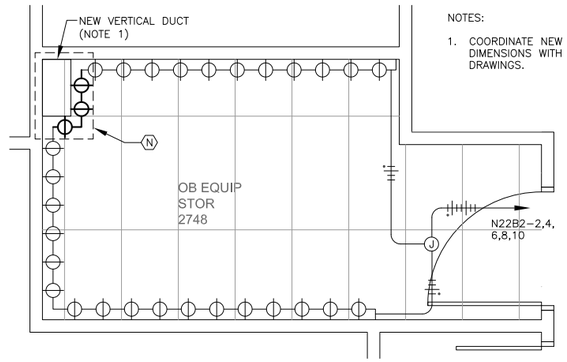
NOTES:

1. REMOVE AND REPLACE SECTIONS OF EXISTING RECEPTACLE RACEWAY IN ROOM 2748 AS NECESSARY TO ALLOW FOR NEW MECHANICAL DUCTWORK.



2 ROOM 2748 – EXISTING

SCALE: 0 2' 4' 8'

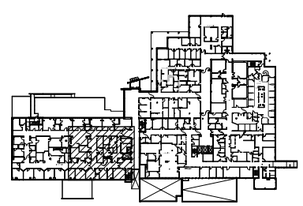


NOTES:

1. COORDINATE NEW VERTICAL DUCT DIMENSIONS WITH MECHANICAL DRAWINGS.

3 ROOM 2748 – NEW

SCALE: 0 2' 4' 8'



KEY PLAN

187.35
STATE OF ALASKA
10th
B.C. HAIGHT
EE 4800
PROFESSIONAL ENGINEER
11 JUNE 2021

HAIGHT & ASSOCIATES
CONSULTING ELECTRICAL ENGINEERS
526 Main Street
Juneau, Alaska 99801
(907) 586-9788

BARTLETT REGIONAL HOSPITAL

ED VENTILATION IMPROVEMENTS

JUNEAU, ALASKA

LEVEL 2 – ENLARGED PLAN

REVISION DESCRIPTION	DATE

SHEET NUMBER

E202

SCALE: AS NOTED
DATE: June 2021

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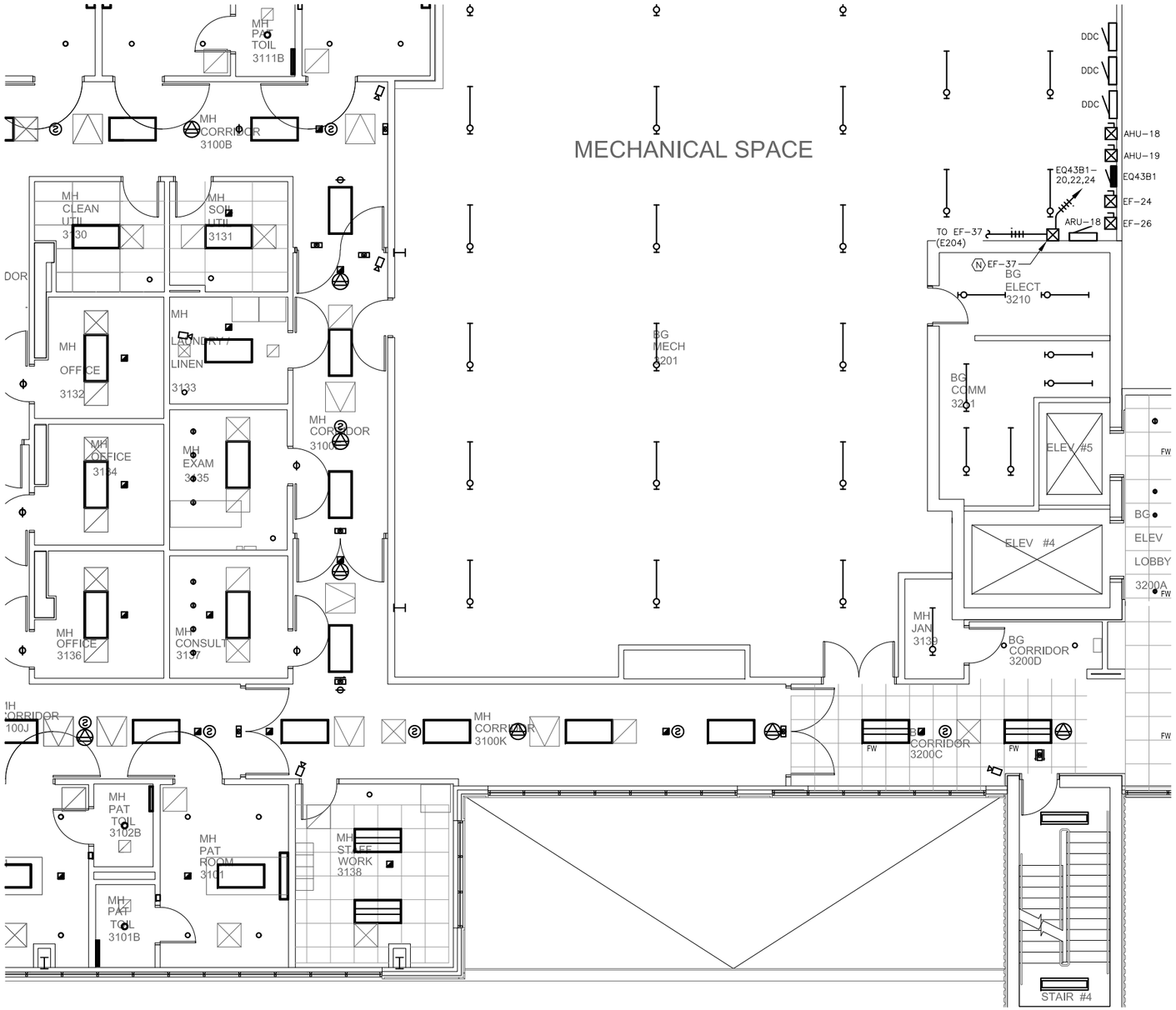
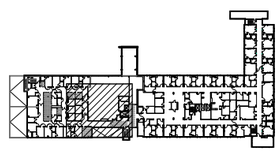


1 LEVEL 3 – ENLARGED PLAN

SCALE: 0 2' 4' 8' 16'

NOTES:

1. THE CEILING PLAN WITH THE EXISTING LUMINAIRES AND DEVICES IS ILLUSTRATED. REMOVE AND REINSTALL CEILING OBJECTS AS NEEDED TO COORDINATE WITH VENTILATION DUCTWORK ADDITIONS AND MODIFICATIONS. SEE MECHANICAL.



KEY PLAN

STATE OF ALASKA
B.C. HAIGHT
EE 4800
11 JUNE 2021

HAIGHT & ASSOCIATES
CONSULTING ELECTRICAL ENGINEERS
526 Main Street
Juneau, Alaska 99801
(907) 586-9788

BARTLETT REGIONAL HOSPITAL
ED VENTILATION IMPROVEMENTS
JUNEAU, ALASKA

LEVEL 3 – ENLARGED PLAN

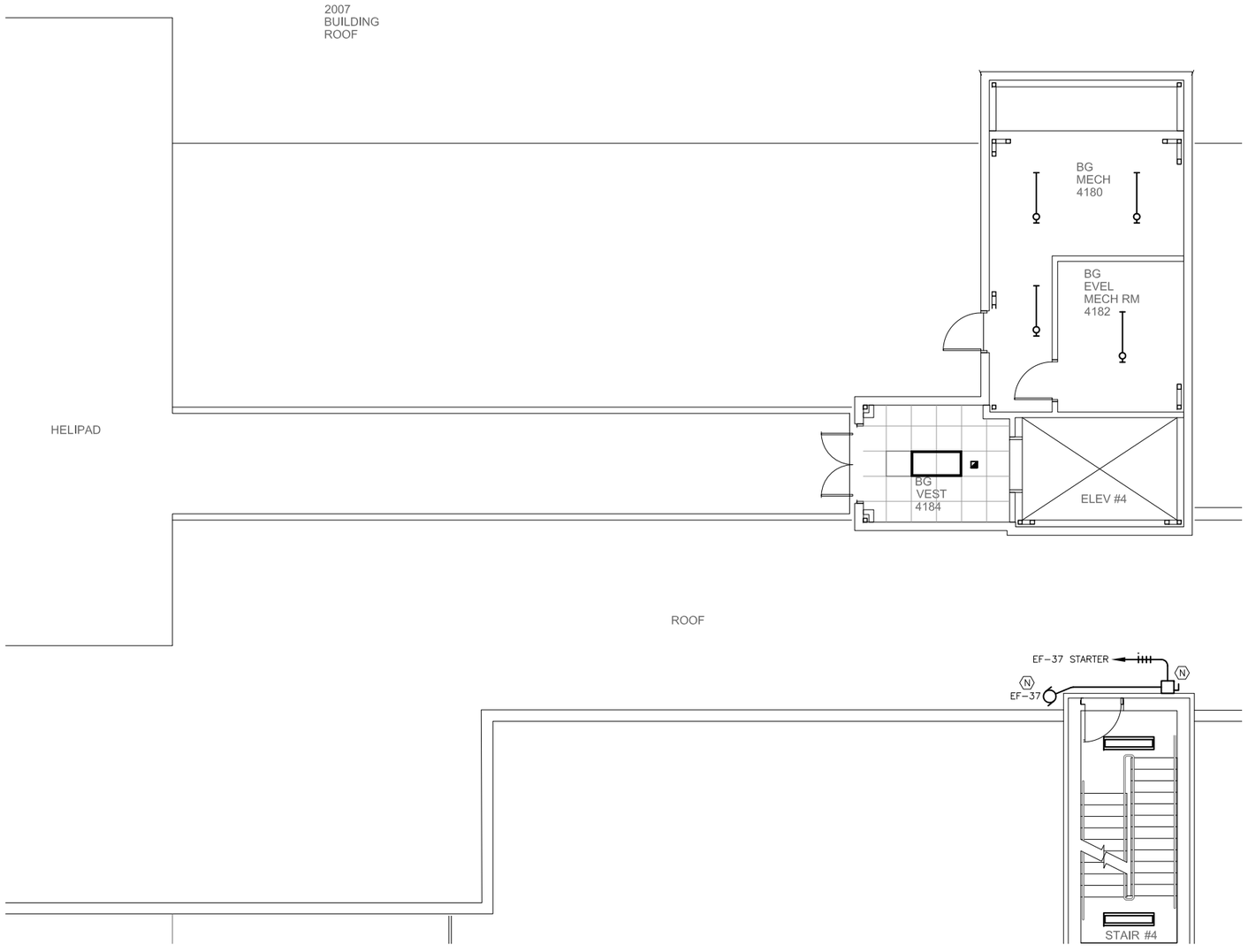
REVISION DESCRIPTION	DATE

SHEET NUMBER

E203

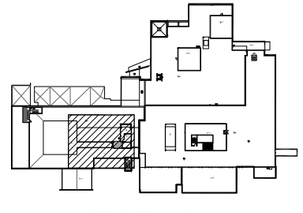
SCALE: AS NOTED
DATE: June 2021

Plotted 6/11/2021 9:30 AM by Peggy G:\SHARED DRIVES\PROJECTS\187 WILSON ENGINEERING\35 BRH EMERGENCY DEPARTMENT VENTILATION\DRAWINGS\WORKING\E203.DWG



1 LEVEL 4 – ENLARGED PLAN

SCALE: 0 2' 4' 8' 16'



KEY PLAN

187.35
STATE OF ALASKA
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B.C. HAIGHT
EE 4800
11 JUNE 2021

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BARTLETT REGIONAL HOSPITAL

ED VENTILATION IMPROVEMENTS

JUNEAU, ALASKA

LEVEL 4 – ENLARGED PLAN

REVISION DESCRIPTION	DATE

SHEET NUMBER

E204

SCALE: AS NOTED
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SPECIFICATION

GENERAL

1.1 DEFINITIONS

A. EMT: ELECTRICAL METALLIC TUBING.

B. FMC: FLEXIBLE METAL CONDUIT.

C. LFNC: LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT.

D. RSC: RIGID STEEL CONDUIT.

1.2 SUBMITTALS

A. PRODUCT DATA:

1. CONDUCTORS AND CABLES.
2. CONDUITS, RACEWAYS, AND BOXES.
3. DISCONNECTS.
4. MOTOR CONTROLLERS.

B. FIELD TEST REPORTS: SUBMIT WRITTEN TEST REPORTS TO INCLUDE THE FOLLOWING:

1. TEST PROCEDURES USED.
2. TEST RESULTS THAT COMPLY WITH REQUIREMENTS.
3. RESULTS OF FAILED TESTS AND CORRECTIVE ACTION TAKEN TO ACHIEVE TEST RESULTS THAT COMPLY WITH REQUIREMENTS.

1.3 QUALITY ASSURANCE

A. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.

B. COMPLY WITH NFPA 70.

1.4 COORDINATION

A. COORDINATE CHASES, SLOTS, INSERTS, SLEEVES, AND OPENINGS WITH GENERAL CONSTRUCTION WORK AND ARRANGE IN BUILDING STRUCTURE DURING PROGRESS OF CONSTRUCTION TO FACILITATE THE ELECTRICAL INSTALLATIONS THAT FOLLOW.

B. WHERE ELECTRICAL IDENTIFICATION DEVICES ARE APPLIED TO FIELD-FINISHED SURFACES, COORDINATE INSTALLATION OF IDENTIFICATION DEVICES WITH COMPLETION OF FINISHED SURFACE.

C. COORDINATE LAYOUT AND INSTALLATION OF RACEWAYS, BOXES, ENCLOSURES, CABINETS, AND SUSPENSION SYSTEM WITH OTHER CONSTRUCTION THAT PENETRATES CEILINGS OR IS SUPPORTED BY THEM, INCLUDING LIGHT FIXTURES, HVAC EQUIPMENT, FIRE-SUPPRESSION SYSTEM, AND PARTITION ASSEMBLIES.

1.5 FIELD QUALITY CONTROL

A. INSPECT INSTALLED COMPONENTS FOR DAMAGE AND FAULTY WORK, INCLUDING THE FOLLOWING:

1. SUPPORTING DEVICES FOR ELECTRICAL COMPONENTS.
2. ELECTRICAL IDENTIFICATION.
3. CUTTING AND PATCHING FOR ELECTRICAL CONSTRUCTION.
4. TOUCHUP PAINTING.

1.6 REFININSHING AND TOUCHUP PAINTING

A. REFINISH AND TOUCHUP PAINT.

1. CLEAN DAMAGED AND DISTURBED AREAS AND APPLY PRIMER, INTERMEDIATE, AND FINISH COATS TO SUIT THE DEGREE OF DAMAGE AT EACH LOCATION.
2. FOLLOW PAINT MANUFACTURER'S WRITTEN INSTRUCTIONS FOR SURFACE PREPARATION AND FOR TIMING AND APPLICATION OF SUCCESSIVE COATS.
3. REPAIR DAMAGE TO GALVANIZED FINISHES WITH ZINC-RICH PAINT RECOMMENDED BY MANUFACTURER.
4. REPAIR DAMAGE TO PAINT FINISHES WITH MATCHING TOUCHUP COATING RECOMMENDED BY MANUFACTURER.

1.7 CLEANING AND PROTECTION

A. ON COMPLETION OF INSTALLATION, INCLUDING OUTLETS, FITTINGS, AND DEVICES, INSPECT EXPOSED FINISH. REMOVE BURRS, DIRT, PAINT SPOTS, AND CONSTRUCTION DEBRIS.

B. PROTECT EQUIPMENT AND INSTALLATIONS AND MAINTAIN CONDITIONS TO ENSURE THAT COATINGS, FINISHES, AND CABINETS ARE WITHOUT DAMAGE OR DETERIORATION AT TIME OF SUBSTANTIAL COMPLETION.

BASIC MATERIALS AND METHODS

1.1 SUPPORTING DEVICES

A. MATERIAL: COLD-FORMED STEEL, WITH CORROSION-RESISTANT COATING ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

B. METAL ITEMS FOR USE OUTDOORS, IN DAMP LOCATIONS, OR IN CORROSIVE ENVIRONMENTS: HOT-DIP GALVANIZED STEEL, OR STAINLESS STEEL.

C. SLOTTED-STEEL CHANNEL SUPPORTS: FLANGE EDGES TURNED TOWARD WEB, AND 9/16-INCH-DIAMETER SLOTTED HOLES AT A MAXIMUM OF 2 INCHES O.C., IN WEBS.

1. CHANNEL THICKNESS: SELECTED TO SUIT STRUCTURAL LOADING.
2. FITTINGS AND ACCESSORIES: PRODUCTS OF THE SAME MANUFACTURER AS CHANNEL SUPPORTS.

D. RACEWAY SUPPORTS: MANUFACTURED CLEVIS HANGERS, RISER CLAMPS, STRAPS, THREADED C-CLAMPS WITH RETAINERS, CEILING TRAPEZE HANGERS, WALL BRACKETS, AND SPRING-STEEL OR CLICK-TYPE HANGERS.

E. EXPANSION ANCHORS: CARBON-STEEL WEDGE OR SLEEVE TYPE.

F. TOGGLE BOLTS: ALL-STEEL SPRINGHEAD TYPE.

G. POWDER-DRIVEN THREADED STUDS: HEAT-TREATED STEEL.

H. ELECTRICAL EQUIPMENT INSTALLATION:

1. MATERIALS AND COMPONENTS: INSTALL LEVEL, PLUMB, AND PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS, UNLESS OTHERWISE INDICATED.
2. EQUIPMENT: INSTALL TO FACILITATE SERVICE, MAINTENANCE, AND REPAIR OR REPLACEMENT OF COMPONENTS. CONNECT FOR EASE OF DISCONNECTING, WITH MINIMUM INTERFERENCE WITH OTHER INSTALLATIONS.
3. RIGHT OF WAY: GIVE TO RACEWAYS AND PIPING SYSTEMS INSTALLED AT A REQUIRED SLOPE.

I. ELECTRICAL SUPPORTING DEVICE APPLICATION:

1. DAMP LOCATIONS AND OUTDOORS: HOT-DIP GALVANIZED MATERIALS, OR STAINLESS STEEL MATERIALS, U-CHANNEL SYSTEM COMPONENTS.
2. DRY LOCATIONS: STEEL MATERIALS.
3. SELECTION OF SUPPORTS: COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
4. STRENGTH OF SUPPORTS: ADEQUATE TO CARRY PRESENT AND FUTURE LOADS, TIME A SAFETY FACTOR OF AT LEAST FOUR; MINIMUM OF 200-LB DESIGN LOAD.

J. SUPPORT INSTALLATION:

1. INSTALL SUPPORT DEVICES TO SECURELY AND PERMANENTLY FASTEN AND SUPPORT ELECTRICAL COMPONENTS.
2. INSTALL INDIVIDUAL AND MULTIPLE RACEWAY HANGERS AND RISER CLAMPS TO SUPPORT RACEWAYS. PROVIDE U-BOLTS, CLAMPS, ATTACHMENTS, AND OTHER HARDWARE NECESSARY FOR HANGER ASSEMBLIES AND FOR SECURING HANGER RODS AND CONDUITS.
3. SIZE SUPPORTS FOR MULTIPLE RACEWAY INSTALLATIONS SO CAPACITY CAN BE INCREASED BY A 25 PERCENT MINIMUM IN THE FUTURE.
4. SUPPORT INDIVIDUAL HORIZONTAL RACEWAYS SEPARATE, MALLEABLE-IRON PIPE HANGERS OR CLAMPS.
5. INSTALL ¼-INCH DIAMETER OR LARGER THREADED STEEL HANGER RODS, UNLESS OTHERWISE INDICATED.
6. ARRANGE SUPPORTS IN VERTICAL RUNS SO THE WEIGHT OF RACEWAYS AND ENCLOSED CONDUCTORS IS CARRIED ENTIRELY BY RACEWAY SUPPORTS, WITH NO WEIGHT LOAD ON RACEWAY TERMINALS.
7. INSTALL METAL CHANNEL RACKS FOR MOUNTING CONTROL ENCLOSURES, PULL AND JUNCTION BOXES, AND OTHER DEVICES, UNLESS COMPONENTS ARE MOUNTED DIRECTLY TO STRUCTURAL ELEMENTS OF ADEQUATE STRENGTH.
8. SECURELY FASTEN ELECTRICAL ITEMS AND THEIR SUPPORTS TO THE BUILDING STRUCTURE, UNLESS OTHERWISE INDICATED. PERFORM FASTENING ACCORDING TO THE FOLLOWING UNLESS OTHER FASTENING METHODS ARE INDICATED:

a. WOOD: FASTEN WITH WOOD SCREWS OR SCREW-TYPE NAILS.

b. MASONRY: TOGGLE BOLTS ON HOLLOW MASONRY UNITS AND EXPANSION BOLTS ON SOLID MASONRY UNITS.

c. EXISTING CONCRETE: EXPANSION BOLTS.

d. INSTEAD OF EXPANSION BOLTS, THREADED STUDS DRIVEN BY A POWDER CHARGE AND PROVIDED WITH LOCK WASHERS MAY BE USED IN EXISTING CONCRETE.

1.2 IDENTIFICATION

A. IDENTIFICATION DEVICES: A SINGLE TYPE OF IDENTIFICATION PRODUCT FOR EACH APPLICATION CATEGORY. USE COLORS PRESCRIBED BY ANSI A13.1, NFPA 70, AND THESE SPECIFICATIONS.

B. ENGRAVED-PLASTIC LABELS, SIGNS, AND INSTRUCTION PLATES: ENGRAVING STOCK, MELAMINE PLASTIC LAMINATE PUNCHED OR DRILLED FOR MECHANICAL FASTENERS 1/16-INCH MINIMUM THICKNESS FOR SIGNS UP TO 20 SQ.IN. AND 1/8-INCH MINIMUM THICKNESS FOR LARGER SIZES. ENGRAVED LEGEND IN WHITE LETTERS ON BLACK BACKGROUND. LABELS ON DISCONNECTS AND STARTERS SHALL BE WHITE LETTERS ON RED BACKGROUND.

C. FASTENERS FOR NAMEPLATES AND SIGNS: SELF-TAPPING, STAINLESS-STEEL SCREWS OR NO. 10/32 STAINLESS-STEEL MACHINE SCREWS WITH NUTS AND FLAT AND LOCK WASHERS.

D. INSTALLATION:

1. INSTALL AT LOCATIONS FOR MOST CONVENIENT VIEWING WITHOUT INTERFERENCE WITH OPERATION AND MAINTENANCE OF EQUIPMENT.
2. COORDINATE NAMES, ABBREVIATIONS, COLORS, AND OTHER DESIGNATIONS USED FOR ELECTRICAL IDENTIFICATION WITH CORRESPONDING DESIGNATIONS INDICATED IN THE CONTRACT DOCUMENTS OR REQUIRED BY CODES AND STANDARDS. USE CONSISTENT DESIGNATIONS THROUGHOUT PROJECT.
3. SELF-ADHESIVE IDENTIFICATION PRODUCTS: CLEAN SURFACES BEFORE APPLYING.
4. COLOR-CODE 208/120-V SYSTEM SECONDARY SERVICE, FEEDER, AND BRANCH-CIRCUIT CONDUCTORS THROUGHOUT THE SECONDARY ELECTRICAL SYSTEM AS FOLLOWS:
   a. PHASE A: BLACK
   b. PHASE B: RED
   c. PHASE C: BLUE
5. COLOR-CODE 480/277-V SYSTEM SECONDARY SERVICE, FEEDER, AND BRANCH-CIRCUIT CONDUCTORS THROUGHOUT THE SECONDARY ELECTRICAL SYSTEM AS FOLLOWS:
   a. PHASE A: BROWN
   b. PHASE B: ORANGE
   c. PHASE C: YELLOW

E. PROVIDE UPDATED PANEL SCHEDULES IN PANELS WITH NEW LOADS. SCHEDULES SHALL BE COMPUTER TYPED.

1.3 FIRESTOPPING

A. APPLY FIRESTOPPING TO CABLE AND RACEWAY PENETRATIONS OF FIRE-RATED FLOOR AND WALL ASSEMBLIES TO ACHIEVE FIRE-RESISTANCE RATING OF THE ASSEMBLY.

1.4 CUTTING AND PATCHING

A. CUT, CHANNEL, CHASE, AND DRILL FLOORS, WALLS, PARTITIONS, CEILINGS, AND OTHER SURFACES REQUIRED TO PERMIT ELECTRICAL INSTALLATIONS. PERFORM CUTTING BY SKILLED MECHANICS OF TRADES INVOLVED.

B. REPAIR AND REFINISH DISTURBED FINISH MATERIALS AND OTHER SURFACES TO MATCH ADJACENT UNDISTURBED SURFACES. INSTALL NEW FIREPROOFING WHERE EXISTING FIRESTOPPING HAS BEEN DISTURBED. REPAIR AND REFINISH MATERIALS AND OTHER SURFACES BY SKILLED MECHANICS OF TRADES INVOLVED.

1.5 TOUCHUP PAINT

A. FOR EQUIPMENT: EQUIPMENT MANUFACTURER'S PAINT SELECTED TO MATCH INSTALLED EQUIPMENT FINISH.

B. GALVANIZED SURFACES: ZINC-RICH PAINT RECOMMENDED BY ITEM MANUFACTURER.

GROUNDING

1.1 GROUNDING CONDUCTORS

A. MATERIAL: COPPER, ONLY.

B. EQUIPMENT GROUNDING CONDUCTORS: INSULATED WITH GREEN-COLORED INSULATION.

C. COPPER BONDING CONDUCTORS: AS FOLLOWS:

1. BONDING CABLE: 28 KCMIL, 14 STRANDS OF NO. 17 AWG COPPER CONDUCTOR, ¼ INCH IN DIAMETER.
2. BONDING CONDUCTOR: NO.4 OR NO.6 AWG, STRANDED COPPER CONDUCTOR.
3. BONDING JUMPER: BARE COPPER TAPE, BRAIDED BARE COPPER CONDUCTORS, TERMINATED WITH COPPER FERRULES; 1-5/8 INCHES WIDE AND 1/6 INCH THICK.
4. TINNED BONDING JUMPER: TINNED-COPPER TAPE, BRAIDED COPPER CONDUCTORS, TERMINATED WITH COPPER FERRULES; 1-5/8 INCH WIDE AND 1/16 INCH THICK.

1.2 CONNECTOR PRODUCTS

A. COMPLY WITH IEEE 837 AND UL 467; LISTED FOR USE FOR SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND CONNECTED ITEMS.

B. BOLTED CONNECTORS: BOLTED-PRESSURE-TYPE CONNECTORS, OR COMPRESSION TYPE.

1.3 INSTALLATION

A. IN RACEWAYS, USE INSULATED EQUIPMENT GROUNDING CONDUCTORS.

B. EQUIPMENT GROUNDING CONDUCTOR TERMINATIONS: USE BOLTED PRESSURE CLAMPS.

C. BOND INTERIOR METAL PIPING SYSTEMS AND METAL AIR DUCTS TO EQUIPMENT GROUNDING CONDUCTORS OF ASSOCIATED PUMPS, FANS, BLOWERS, ELECTRIC HEATERS, AND AIR CLEANERS. USE BRAIDED-TYPE BONDING STRAPS.

CONDUCTORS AND CABLES

1.1 CONDUCTOR AND CABLE MATERIAL

A. COPPER COMPLYING WITH NEMA WC 5 OR 7; STRANDED.

B. INSULATION TYPES: TYPE THHN-THWN, AND XHHW COMPLYING WITH NEMA WC 5 OR 7.

1.2 CONDUCTOR AND INSULATION APPLICATIONS

A. EXPOSED BRANCH CIRCUITS: TYPE THHN-THWN OR XHHW, SINGLE CONDUCTORS IN RACEWAY.

B. BRANCH CIRCUITS CONCEALED IN CEILINGS, WALLS, AND PARTITIONS: THHN-THWN OR XHHW, SINGLE CONDUCTORS IN RACEWAYS.

C. COORDINATE CONDUCTOR INSULATION TEMPERATURE RATING AND AMPACITY RATING WITH THE TEMPERATURE AND AMPACITY RATING OF THEIR CIRCUIT PROTECTION DEVICES.

D. TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS ACCORDING TO MANUFACTURER'S PUBLISHED TORQUE-TIGHTENING VALUES. IF MANUFACTURER'S TORQUE VALUES ARE NOT INDICATED, USE THOSE SPECIFIED IN UL 486A AND UL 486B.

E. MAKE SPLICES AND TAPS THAT ARE COMPATIBLE WITH CONDUCTOR MATERIAL AND THAT POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN UNSPLICED CONDUCTORS.

1. USE OXIDE INHIBITOR IN EACH SPLICE AND TAP CONDUCTOR FOR ALL CONDUCTORS LOCATED IN MOIST OR CORROSIVE ENVIRONMENTS.

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11 JUNE 2021

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E900

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RACEWAYS

1.1 CONDUIT AND TUBING

A. RIGID STEEL CONDUIT: ANSI C80.1

B. EMT AND FITTINGS: ANSI C80.3

1. FITTINGS: SET-SCREW OR COMPRESSION TYPE.

C. FMC: ZINC-COATED STEEL.

D. LFNC: UL 1660, FEDERAL SPECIFICATION WW-C-5666, AND ANSI/NFPA 79. THE CONDUIT, INCLUDING FITTINGS SHALL REMAIN FLEXIBLE TO 0 DEGREES FAHRENHEIT, OR LOWER.

E. FITTINGS: NEMA FB 1; COMPATIBLE WITH CONDUIT AND TUBING MATERIALS.

1.2 INSTALLATION

A. OUTDOORS:

1. EXPOSED: RIGID STEEL.
2. CONCEALED: RIGID STEEL.
3. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): LFNC.
4. BOXES AND ENCLOSURES: NEMA 250, TYPE 4.

B. INDOORS:

1. EXPOSED: EMT.
2. CONCEALED: EMT.
3. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): FMC.
4. DAMP OR WET LOCATIONS: RIGID STEEL CONDUIT.
5. BOXES AND ENCLOSURES: NEMA 250, TYPE 1.

C. MINIMUM RACEWAY SIZE: ½-INCH TRADE SIZE.

D. RACEWAY FITTINGS: COMPATIBLE WITH RACEWAYS AND SUITABLE FOR USE AND LOCATION.

1. RIGID STEEL CONDUIT: USE THREADED RIGID STEEL CONDUIT FITTINGS, UNLESS OTHERWISE INDICATED.

E. CONCEAL CONDUIT AND EMT WITHIN FINISHED AND INACCESSIBLE WALLS, CEILINGS, AND FLOORS, UNLESS OTHERWISE INDICATED.

1. INSTALL CONCEALED RACEWAYS WITH A MINIMUM OF BENDS IN THE SHORTEST PRACTICAL DISTANCE, CONSIDERING TYPE OF BUILDING CONSTRUCTION AND OBSTRUCTIONS, UNLESS OTHERWISE INDICATED.

F. INSTALL EXPOSED RACEWAYS, AND RACEWAYS WITHIN ACCESSIBLE SPACES, PARALLEL OR AT RIGHT ANGLES TO NEARBY SURFACES OR STRUCTURAL MEMBERS AND FOLLOW SURFACE CONTOURS AS MUCH AS POSSIBLE.

1. RUN PARALLEL OR BANKED RACEWAYS TOGETHER ON COMMON SUPPORTS.
2. MAKE PARALLEL BENDS IN PARALLEL OR BANKED RUNS. USE FACTORY ELBOWS ONLY WHERE ELBOWS CAN BE INSTALLED PARALLEL; OTHERWISE, PROVIDE FIELD BENDS FOR PARALLEL RACEWAYS.

G. JOIN RACEWAYS WITH FITTINGS DESIGNED AND APPROVED FOR THAT PURPOSE AND MAKE JOINTS TIGHT.

1. USE INSULATING BUSHINGS TO PROTECT CONDUCTORS.

H. TIGHTEN SET SCREWS OF THREADLESS FITTINGS WITH SUITABLE TOOLS.

I. TERMINATIONS:

1. WHERE RACEWAYS ARE TERMINATED WITH LOCKNUTS AND BUSHINGS, ALIGN RACEWAYS TO ENTER SQUARELY AND INSTALL LOCKNUTS WITH DISHED PART AGAINST BOX. USE TWO LOCKNUTS, ONE INSIDE AND ONE OUTSIDE BOX.
2. WHERE RACEWAYS ARE TERMINATED WITH THREADED HUBS, SCREW RACEWAYS OR FITTINGS TIGHTLY INTO HUB SO END BEARS AGAINST WIRE PROTECTION SHOULDER. WHERE CHASE NIPPLES ARE USED, ALIGN RACEWAYS SO COUPLING IS SQUARE TO BOX; TIGHTEN CHASE NIPPLE SO NO THREADS ARE EXPOSED.

J. FLEXIBLE CONNECTIONS: USE MAXIMUM OF 72 INCHES OF FLEXIBLE CONDUIT FOR EQUIPMENT SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT; AND FOR ALL MOTORS. INSTALL SEPARATE GROUND CONDUCTOR ACROSS FLEXIBLE CONNECTIONS.

BOXES, ENCLOSURES, AND CABINETS

1.1 SHEET METAL OUTLET AND DEVICE BOXES: NEMA OS 1.

1.2 CAST-METAL OUTLET AND DEVICE BOXES: NEMA FB 1, TYPE FD, WITH GASKETED COVER.

1.3 SMALL SHEET METAL PULL AND JUNCTION BOXES: NEMA OS 1.

1.4 CAST-METAL PULL AND JUNCTION BOXES: NEMA FB 1, CAST ALUMINUM WITH GASKETED COVER.

1.5 HINGED-COVER ENCLOSURES: NEMA 250, TYPE 1, WITH CONTINUOUS HINGE COVER AND FLUSH LATCH.

A. METAL ENCLOSURES: STEEL, FINISHED INSIDE AND OUT WITH MANUFACTURER'S STANDARD ENAMEL.

DISCONNECTING AND OVERCURRENT PROTECTIVE DEVICES

A. NONFUSIBLE SWITCHES

1. TYPE HD, HEAVY DUTY, THREE POLE, SINGLE THROW, 600-V AC, 1200 A AND SMALLER: UL 98 AND NEMA KS 1, HORSEPOWER RATED, LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT THREE PADLOCKS, AND INTERLOCKED WITH COVER IN CLOSED POSITION.
2. ACCESSORIES:
   a. EQUIPMENT GROUND KIT: INTERNALLY MOUNTED AND LABELED FOR COPPER GROUND CONDUCTORS.
   b. LUGS: MECHANICAL TYPE, SUITABLE FOR NUMBER, SIZE, AND CONDUCTOR MATERIAL.

B. MOLDED-CASE CIRCUIT BREAKER (MCCB): COMPLY WITH UL 489, WITH INTERRUPTING CAPACITY TO MEET AVAILABLE FAULT CURRENTS:

1. THERMAL-MAGNETIC CIRCUIT BREAKERS: INVERSE TIME-CURRENT ELEMENT FOR LOW-LEVEL OVERLOADS, AND INSTANTANEOUS MAGNETIC TRIP ELEMENT FOR SHORT CIRCUITS.
2. FEATURES AND ACCESSORIES:
   a. STANDARD FRAME SIZES, TRIP RATINGS, AND NUMBER OF POLES.
   b. LUGS: MECHANICAL STYLE, SUITABLE FOR NUMBER, SIZE, TRIP RATINGS, AND CONDUCTOR MATERIAL.

C. ENCLOSURES

1. ENCLOSED SWITCHES: NEMA 250 TYPE 4.
2. ENCLOSURE FINISH: THE ENCLOSURE SHALL BE A BRUSH FINISH ON TYPE 304 STAINLESS STEEL (NEMA 250 TYPE 4 STAINLESS STEEL).
3. CONDUIT ENTRY: NEMA 250 TYPES 4, 4X, AND 12 ENCLOSURES SHALL CONTAIN NO KNOCKOUTS.

D. INSTALLATION

1. ADJUST MOVING PARTS AND OPERABLE COMPONENTS TO FUNCTION SMOOTHLY, AND LUBRICATE AS RECOMMENDED BY MANUFACTURER.

ENCLOSED FULL-VOLTAGE MAGNETIC MOTOR CONTROLLERS

A. DESCRIPTION: ACROSS-THE-LINE START, ELECTRICALLY HELD, FOR NOMINAL SYSTEM VOLTAGE OF 600-V AC AND LESS.

B. UL COMPLIANCE: FABRICATE AND LABEL MAGNETIC MOTOR CONTROLLERS TO COMPLY WITH UL 508 AND UL 60947-4-1.

C. NEMA COMPLIANCE: FABRICATE MOTOR CONTROLLERS TO COMPLY WITH ICS 2.

D. STANDARD: COMPLY WITH NEMA ICS 2, GENERAL PURPOSE, CLASS A.

E. CONFIGURATION: NONREVERSING

F. ENCLOSURE: SURFACE MOUNTING.

1. RED LED PILOT LIGHT.
2. H-O-A SWITCH.
3. OVERLOAD RELAY RESET BUTTON.

G. CONTACTOR COILS: PRESSURE-ENCAPSULATED TYPE

1. OPERATING VOLTAGE: MANUFACTURER'S STANDARD, UNLESS INDICATED

H. CONTROL POWER:

1. FOR ON-BOARD CONTROL POWER, OBTAIN FROM INTEGRAL CONTROL POWER TRANSFORMER. THE CONTROL POWER TRANSFORMER SHALL HAVE CAPACITY TO OPERATE INTEGRAL DEVICES AND REMOTELY LOCATED PILOT, INDICATING, AND CONTROL DEVICES.

I. OVERLOAD RELAYS:

1. SOLID-STATE OVERLOAD RELAY:
   a. SWITCH OR DIAL SELECTABLE FOR MOTOR-RUNNING OVERLOADS PROTECTION.
   b. SENSORS IN EACH PHASE.
   c. CLASS 10 TRIPPING CHARACTERISTIC SELECTED TO PROTECT MOTOR AGAINST VOLTAGE AND CURRENT UNBALANCE AND SINGLE PHASING.

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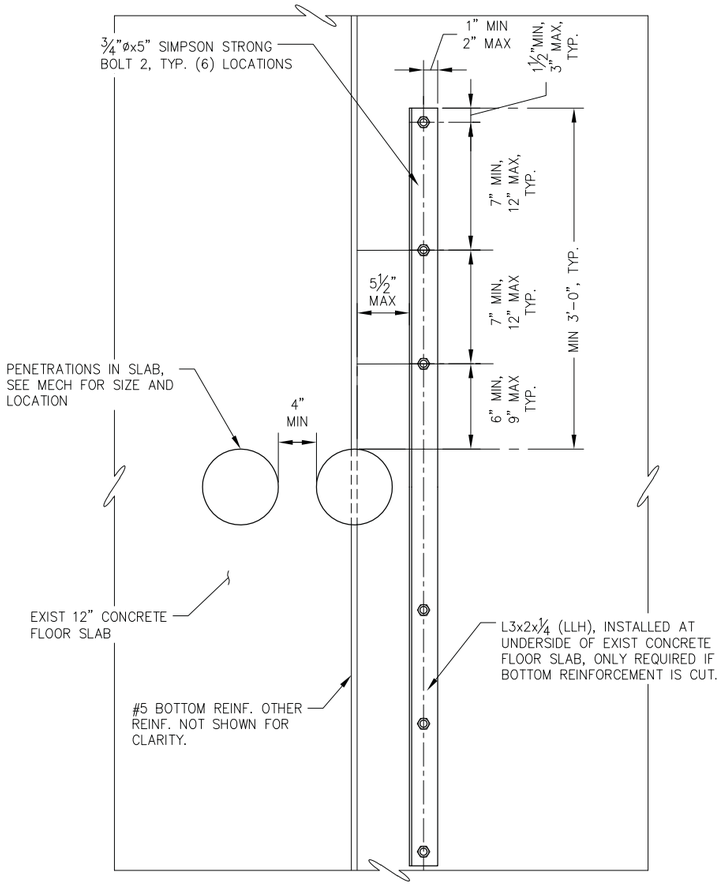

A RETROFIT DETAIL FOR LEVEL 2 AND LEVEL 3 FLOOR SLAB AT ROOMS 1490B AND 2748

SEQUENCE NOTES:

1. SCAN SLAB TO LOCATE BOTTOM REINFORCEMENT.

2. SHIFT PROPOSED OPENING LOCATIONS SO THAT BOTTOM REINFORCEMENT IS MIN 1" CLEAR FROM EDGE OF OPENING. IF THIS IS NOT POSSIBLE DUE TO LAYOUT OF BOTTOM REINFORCEMENT, L3x2 REINFORCEMENT SHALL BE INSTALLED PER DETAIL. ONE L3x2 REINFORCEMENT IS REQUIRED FOR EACH BOTTOM BAR THAT IS CUT.

3. IF BOTTOM REINFORCEMENT MUST BE CUT, SCAN SLAB FOR L3x2 ANCHORS. ONCE L3x2 REINFORCEMENT AND ANCHORS HAVE BEEN LAID OUT, CONTACT PND ENGINEERS FOR CONFIRMATION OF LAYOUT.

4. ONCE L3x2 REINFORCEMENT AND ANCHORS HAVE BEEN APPROVED BY PND ENGINEERS, L3x2 REINFORCEMENT MAY BE INSTALLED

5. AFTER L3x2 REINFORCEMENT HAS BEEN INSTALLED, OPENING MAY BE CUT IN SLAB.

6. AFTER OPENING HAS BEEN CUT INTO SLAB, CONCRETE SLAB AND REMOVED CONCRETE SHALL BE INSPECTED TO VERIFY ONLY INTENDED BOTTOM REINFORCEMENT HAS BEEN CUT. IF ADDITIONAL BOTTOM REINFORCEMENT WAS INADVERTENTLY CUT, ADDITIONAL L3x2 REINFORCEMENT WILL BE REQUIRED. CONTACT PND ENGINEERS FOR DIRECTION.

ADDITIONAL NOTES:

A) TOP REINFORCEMENT MAY BE CUT WITHOUT ADDED REINFORCEMENT

B) ANGLES SHALL CONFORM TO ASTM A36.

PAYMENT NOTES:

CONTRACTOR IS REQUIRED TO LOCATE EXISTING REINFORCING STEEL AND COORDINATE LOCATIONS OF SLAB PENETRATIONS WITH ENGINEER PRIOR TO CORE DRILLING/CUTTING. ANY CUTTING OF AND/OR DAMAGE TO EXISTING REINFORCING STEEL WILL REQUIRE IMPLEMENTATION OF THE STRUCTURAL SLAB RETROFIT DETAILS ON THIS SHEET.

A. WHEN REINFORCING STEEL IS TO BE CUT AT THE DIRECTION OF THE ENGINEER DUE TO INADEQUATE BAR SPACING AND/OR LOCATION SPECIFIED BY THE ENGINNER, THEN ALL WORK FOR THE STRUCTURAL RETROFIT/S WILL BE PAID FOR, PER EACH, UNDER THE "STRUCTURAL RETROFIT" CONTINGENT SUM ITEM.

B. WHEN RETROFIT DETAILS ARE REQUIRED DUE TO THE CONTRACTOR'S INABILITY TO ACCURATELY LOCATE EXISTING REINFORCING STEEL OR FOR CONTRACTOR'S CONVENIENCE, THEN ALL WORK FOR THE STRUCTURAL RETROFIT/S SHALL BE CONSIDERED INCIDENTAL TO OTHER WORK AND NO SEPARATE PAYMENT WILL BE MADE.

REVISIONS

REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.

PND ENGINEERS, INC.
9360 Glacier Highway Ste 100
Juneau, Alaska 99801
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DESIGN: BN CHECKED: BN
DRAWN: KLL APPROVED: BN
SCALE: SCALE IN INCHES 0 6 12 IN
DATE: 06/11/2021

STATE OF ALASKA 49 TH Brian C. Nielsen SE-13703 REGISTERED PROFESSIONAL ENGINEER

BARTLETT ED VENTILATION IMPROVEMENTS

SHEET TITLE: **SLAB RETROFIT DETAIL**

PND PROJECT NO.: 202094 C.A.N. NO.: AECC250

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