ALICIA ROBERTS MEDICAL CENTER RENOVATION

PHASE 2

7300 Klawock Hollis Hwy # A, Klawock, AK 99925
04/13/2018
100% - CONSTRUCTION DOCUMENT

ARCHITECT

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LOCATION MAP



KLAWOCK, AK
PROJECT LOCATION

SCOPE OF WORK SUMMARY

BASE BID — **PRIMARY CARE:** RENOVATION OF EXISTING PRIMARY CARE CLINIC INCLUDING INSTALLATION OF NEW CT IMAGING SUITE

BUILDING CODE INFORMATION

APPLICABLE CODES

INTERNATIONAL BUILDING CODE 2012 EDITION (I.B.C.)
2012 NFPA 99: HEALTH CARE FACILITIES CODE
2012 NFPA 101: LIFE SAFETY CODE
THE FACILITY GUIDELINES INSTITUTE- GUIDELINES FOR HOSPITALS AND OUTPATIENT FACILITIES 2014
ALL CODES REFERENCED ARE TO BE USED AS AMENDED BY THE STATE OF ALASKA AND THE CITY AND BOROUGH OF KLAWOCK.

CODE DATA

OCCUPANCY CLASSIFICATION(S): **B** (UNCHANGED) CLINIC, OUTPATIENT BUILDINGS OR PORTIONS THEREOF USED TO PROVIDE MEDICAL CARE ON LESS THAN A 24-HOUR BASIS TO INDIVIDUALS WHO ARE NOT RENDERED INCAPABLE OF SELF-PRESERVATION BY THE SERVICES PROVIDED PER 304.1.

TYPE OF CONSTRUCTION:	- TYPE VB
AUTOMATIC SPRINKLER SYSTEMS THROUGHOUT	- YES
FLOOR AREA:	
- BASE ALLOWED:	- 36,000 SF PER TABLE 506.2
	- UNLIMITED PER SECTION 507.4
- ACTUAL AREA:	- 4490 SF
RATED CONSTRUCTION:	
EXT WALLS	- NONE
ROOF/CEILING	- NONE
CORRIDORS	- NONE PER IBC TABLE 1004.1.2
INT. WALLS	- 1 HR AT MECH. AND ELEC. RMs AND (N) MED. GAS CLOSET
OCCUPANCY SEP.	- 2 HR BETWEEN (E) R-3 OCCUPANCY (EMERGENCY RM) AND (E) B OCCUPANCY ALL OTHER AREAS



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MECH SHEET INDEX

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ALICIA ROBERTS MEDICAL CENTER
KLAWOCK, ALASKA
NWA-1644

SHEET # A0.0

PLOT DATE 4/9/2018

ISSUE DATE 4/13/2018

ARCHITECTURAL ABBREVIATIONS

NOTES: SEE TECHNICAL SPECIFICATIONS, DOOR AND FINISH SCHEDULES FOR ADDITIONAL UNIQUE ABBREVIATIONS. ABBREVIATIONS SPECIFIC TO THOSE ELEMENTS OF THE CONTRACT DOCUMENTS SUPERSEDE ABBREVIATIONS LISTED HERE.

&	and
@	at
≈	approximately
=	equal
-	minus
d	penny
+	plus
#	pound or number
AB	air barrier
ACT	acoustical ceiling tile
ADA	Americans With Disibilities act complient item, object, condition.
ADJ	adjacent
ADJST	adjustable
AESS	Architectural Exposed Structural Steel
AFF	above finished floor
AG	acoustical glass
AGG	aggregate
ALT	alternate
ALU	aluminum
ALUM	aluminum
ANG	angle
AP	Art Panel, item
APPROX	approximate
ARCH	architectural
BD	board
BLDG	building
BLK	block
BM	beam
B.O.	bottom of
B.O.D.	bottom of decking
BOF	bottom of footing
BOT	bottom
BR	backing rod (foam, typ)
BRK	bracket
BSBD	baseboard
BSMT	basement
BTWN	between
BUR	built-up roof
CBB	cementitious backer board
CBU	cementitious backier unit
CEM	cement
CF	cubic foot
CFCI	contractor furnish/ contractor install
CG	corner guard
CMP	Composite Metal Panel
CUH	cabinet unit heater
CI	cast iron
CLDG	cladding
CLG	ceiling
CLO	closet
CLR	clear
CLRF	clear finish
CO	clean out
COL	column
COMP	comp
CONC	concrete
CONST	construction
CONT	continuous
CORR	corridor
CPG	coping
CPT	carpet (broadloom)
CPTT	carpet tile
CRPT	countertop
CT	ceramic tile
CTR	center
CTRSK	counter-sink
CY	cubic yard
CWSF	curtain wall, storefronts, and entrances
D	deep, depth
DBL	double
DC	decorative head (screw)
DCT	diaper changing table
DEMO	demolish, demolition
DEPT	department
DET	detail
DF	drinking fountain
DIA	diameter
DIM	dimension
DISP	disposal
DN	down
DP	dampproof(ing)
DR	door
DW	dishwasher
DWG(S)	drawing(s)
DWR	downspout
E	east
(E)	existing
EA	each
EF	exhaust fan
EG	entry grate
EIFS	exterior insulation and finish system
EJ	expansion joint
EL	elevation
ELEC	electrical
ELEV	elevator
EM	entry mat
EMER	emergency
ENLG	enlarge(d)
ENT	entrance
EPS	exterior paint system
EQ	equal
EQUIP	equipment
ETR	existing to remain
EXIST	existing
EXP	exposed
EXT	exterior
F	factory
FA	fire alarm
FAB	fabricate
FD	floor drain
FDC	fire department connection
FDN	foundation
FE	fire extinguisher
FEC	fire extinguisher cabinet
FH	flat head (screw)
FIN	finish
FLASH	flashing
FLR	floor
F.O.	face of
FOC	face of concrete
FOF	face of finish
FOS	face of studs
FP	fireproof
FRM	frame
FRMG	framing
FRP	fiberglass reinforced plastic
FRT	fire retardant treated
FS	full size
FSTP	firestop/firestopping
FT	foot, feet
FTG	footing
FURR	furring
FUT	future
GA	gauge
GALV	galvanized
GB	grab bar
GEN	general
GALV	galvanized steel
GL	glass
GMMU	glass mesh mortar unit
GMU	glazed masonry unit
GRND	ground
GRD	grade
GSKT	gasket
GT	Glass Tile
GTT	Gradiated Glass Tile
GWB	gypsum wall board
GYP	gypsum
HB	hose bibb
HCWC	accessible water closet
HD	hot dipped
HDR	header
HDWD	hardwood
HDWE	hardware
HM	hollow metal
HMT	hollow metal thermal break
HORIZ	horizontal
HR	hour
HT	height
HTG	heating
HTR	heater
HVC	heating/ventilation/ cooling
HWH	hot water heater
ICB	integral coved base
ID	inside diameter
IG	insulated glass
IGU	insulated glazing unit
IHM	insulated hollow metal
INCL	include
INSUL	insulation
INT	interior
IPS	interior paint system
JAN	janitor
JST	joist
JT	joint
L	length, long
LAV	lavatory
LAB	laboratory
LAM	laminate
LCT	linoleum composition tile
LGF	light gauge metal framing
LINS	linoleum sheet
LINT	linoleum tile
LP	laminate panel
LCB	liquid chalkboard
LH	left hand
LKR	locker
LT	light
MAX	maximum
MB	mop bracket
MECH	mechanical
MEMB	membrane
MEP	mechanical, electrical & plumbing
MFR	manufacturer
MIL	millimeter
MIN	minimum
MIR	mirror
MR	moisture resistant
MTD	mounted
MTL	metal
MUL	mullion
N	north
(N)	new
N/A	not applicable
NIC	not in contract
NO or #	number
NTS	not to scale
OC	on center
OD	outside diameter
OFCI	owner furnish/ contractor install
OFOI	owner furnish/ owner install
OH	overhead
OPNG	opening
OPP	opposite
P	paint
P1	phase 1 construction
P2	phase 2 construction
P3	phase 3 construction
PCT	porcelain tile
PERF	perforated
PH	pan head (screw)
PL	property line
PLAM	plastic laminate
PLAS	plaster
PLUM	plumb, plumbing
PLYWD	plywood
PNT	painted, paint
PR	pair
PREFAB	prefabricated
PREFIN	prefinish(ed)
PROP	property
PSF	pounds per square foot
PSI	pounds per square inch
PT	preservative/ pressure treated
PTD	paper towel dispenser
PTDR	paper towel dispenser & receptacle
PTN	partition
PTR	paper towel receptacle
R	riser
RB	resilient or rubber base
RCP	reflected ceiling plan
RD	roof drain
REBAR	reinforcing bar
REF	reference
REFL	reflected
REINF	reinforc(ed)(ing)
REQD	required
RESIL	resilient
RFEC	recessed fired extinguisher cabinet
RF	resilient flooring
RH	robe hook, right hand
RM	room
RO	rough opening
RP	radiant ceiling panel
RSF	resilient sheet flooring
RWR	recessed waste receptical
S	south
(S)	salvage
SC	solid core
SCHED	schedule
SD	soap diepenser
SECT	section
SF	sports flooring
SH	shelf (toilet & bath accessory)
SHT	sheet
SHTG	sheeting
SHWR	shower
SIG	solar insulating glass
SIM	similar
SLR	sealer
SNR	sanitary naplin receptical
ST	stain
SPEC	specificationg
SQ	square
SR	slip resistant
SS	stainless steel
SSM	solid surface
STD	standard
STL	steel
STOR	storage
STRUCT	structural
SUSP	suspended
SYM	symmetrical
SV	sheet vinyl
T	tread
TB	thermal break
TBB	thermally broken bracket
TEL	telephone
TEMP	temporary
TG	tempered glass
T&G	tongue and groove
THK	thick
THRU	through
T.O.	top of
TOB	top of beam
TOC	top of concrete, top of curb
TOP	top of pavement, top of plate
TOS	top of steel
TOW	top of wall
TRTD	preservative treated
TS	tube steel
TSCD	toilet seat cover dispenser
TSPN	transparent
TTD	toilet tissue dispenser
TV	television
TYP	typical
UL	Underwriters Laboratories, Inc.
UNFIN	unfinished
UNO	unless noted otherwise
VAT	vinyl asbestos tile
VB	vapor barrier
VCT	vinyl composition tile
VC	vinyl covered
VER	verify
VERT	vertical
VEST	vestibule
VIP	verify in field
VTR	vent through roof
VR	vapor retarder
W	west, wide, width
W/	with
WC	water closet
WCV	wall covering
W/D	washer/dryer
WD	wood
WDG	wood grille
WDW	window
WG	wire glass
WH	wall hung
W/O	without
WOM	walk-off mat/carpet
WP	at int: wall panel
WP	at ext: water proof
WPM	waterproof membrane
WR	water resistant
WRB	weather resistant barrier
WS	wood slat accoustic ceiling
W/S	workstation
WSCT	wainscot
WT	weight
WWF	welded wire fabric

ARCHITECTURAL SYMBOLS


NORTH ARROW



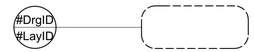
GRID



ELEVATION REF.



BUILDING SECTION



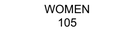
ENLARGED / DETAIL PLAN



DETAIL SECTION



INTERIOR ELEVATION



ROOM NAME & NUMBER



WALL TYPE TAG

SHEET NOTE TAG



DOOR TAG



WINDOW TAG



ACCENT PNT LOC/COLOR



FLOORING TRANSITION



04/13/2018

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1" ACTUAL

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

SEARHC ALICIA ROBERTS MEDICAL CENTER

NWA 1644
KLAWOCK, ALASKA

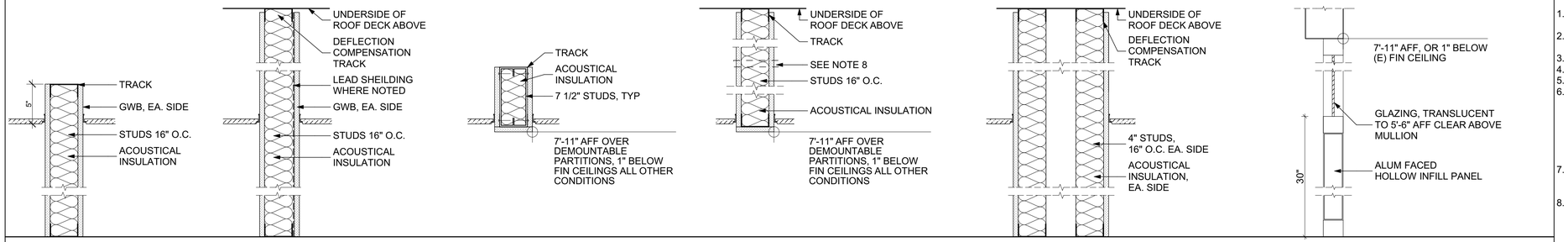
SHEET TITLE:
ABBREVIATIONS / LEGEND

CHECKED	DH
DRAWN	BK

Revision ID

SHEET #	A0.1
PLOT DATE	4/9/2018
ISSUE DATE	4/13/2018

WALL TYPE SCHEDULE



- A1 PARTITION - EXTEND 5" ABOVE ABOVE CEILING
  - A1-4 4" METAL STUDS
  - A1-6 6" METAL STUDS
- A2 PARTITION - EXTEND AND SEAL TO UNDERSIDE OF ROOF ABOVE
  - A2-4 4" METAL STUDS
  - A2-6 6" METAL STUDS

  LEAD SHEILDING NOTED WITH *
- B1 HEADER / HEADWALL - PER 8/A4.0
- B2 HEADER / HEADWALL - PER 9/A4.0
- C CHASE WALL - EXTEND AND SEAL TO UNDERSIDE OF ROOF ABOVE
- D DEMOUNTABLE PARTITION

WALL TYPE NOTES:

1. ALL NEW INTERIOR PARTITION TYPES ARE TYPE A, UNLESS NOTED OTHERWISE.
2. WHERE INFILLING OR EXTENDING EXISTING PARTITION, MATCH EXISTING STUD DEPTH.
3. PARTITION WALL TOP: SEE 3/A3.0
4. DOOR JAMBS: SEE 6/A3.0
5. DOOR HEADS: SEE 5/A3.0
6. ACOUSTICAL INSULATION MAY NOT BE SHOWN FOR CLARITY IN DETAILS DEPICTING NEW OR EXISTING PARTITION FRAMING. ALL NEW PARTITIONS AND ANY EXISTING PARTITIONS OPENED FOR WORK WITHIN THE WALL CAVITY SHALL HAVE NEW ACOUSTICAL INSULATION INSTALLED.
7. SET ALL WALL BOTTOM TRACK IN A CONTINUOUS, MIN 1/2" BEAD OF SKINNING ACOUSTICAL SEALANT.
8. INCLUDE 2/A3.0 BRACING DETAIL WHERE HEADWALL OCCURS OVER DEMOUNTABLE PARTITION.

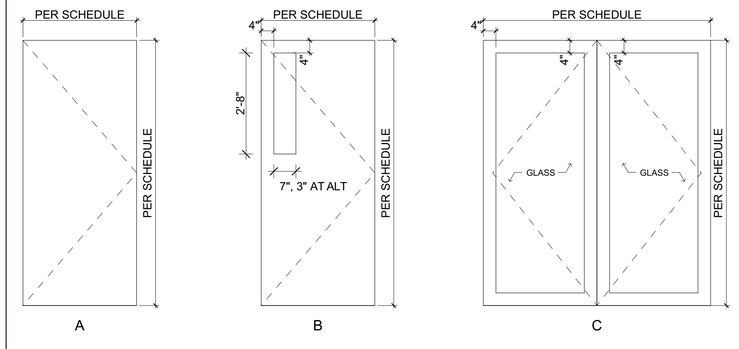
DOOR AND FRAME SCHEDULE

ID	DOOR TYPE	DOOR MAT	DOOR OPENING SIZE W	DOOR OPENING SIZE HT	DOOR FIN	FRAME MATL	FRAME FIN	HDRW SET	COMMENTS
101A (E)	ETR		6'	7'				1	REPLACE AUTO. DOOR OPERATOR
101B (E)	ETR		6'	7'				1	REPLACE AUTO. DOOR OPERATOR
103 (E)	A	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	10	
104A (E)	B	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	2	
104B	B	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	2	
104C (E)	B	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	2	
104D	B	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	2	
105A (E)		GLASS	3'	7'		ALUM	CLR ANOD	3	KI GENIUS SYSTEM GLASS DOOR
105B (E)	B	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	3	
107	B	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	4	
108	B	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	11	
109	B	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	11	
110	A	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	3	
111-A	A	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	9	
111-B	A	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	9	
111-C	A	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	9	
111-D	A	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	9	
111-E	A	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	9	
111-F	A	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	9	
111-G	A	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	9	
111-H	A	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	9	
111-I	A	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	9	
111-J	A	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	9	
111-K	A	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	9	
111-L	A	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	9	
112-A		GLASS	3'	7'		ALUM	CLR ANOD	PER KI	KI GENIUS SYSTEM GLASS DOOR, SLIDING
112-B		GLASS	3'	7'		ALUM	CLR ANOD	PER KI	KI GENIUS SYSTEM GLASS DOOR, SLIDING
112-C		GLASS	3'	7'		ALUM	CLR ANOD	PER KI	KI GENIUS SYSTEM GLASS DOOR, SLIDING
112-D		GLASS	3'	7'		ALUM	CLR ANOD	PER KI	KI GENIUS SYSTEM GLASS DOOR, SLIDING
113	A	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	10	
114	B	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	12	
115	A	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	3	
116	A	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	3	
117	B	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	2	NO PUSH BUTTON
118A	B	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	13	
118B	B ALT	PLAM,WD	5'	7'	PL-2	KD STEEL	PNT-1	14	90 MINUTE, FAIL SECURE
119	B	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	10	
120	B	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	3	
121	A	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	15	
151	C	ALUM	8'	7'	ANOD	ALUM	ANOD	16	THERMAL RATED ASSEMBLY, AUTO. SWING
155	B ALT	PLAM,WD	3'	7'	PL-2	KD STEEL	PNT-1	2	90 MIN, FAIL SECURE, NO PUSH BUTTON, DELAYED EGRESS

DOOR AND FRAME NOTES:

1. ALL DOORS NOT LABELED OR LABELED "E" ON PLANS ARE EXISTING TO REMAIN. PAINT FRAMES, COORDINATE KEYED DOORS WITH NEW CORES AND NEW KEYING SCHEDULE OR NEW ACCESS CONTROL AS APPLICABLE.
2. DIVISION 8 & 23 ACCESS CONTROL BY CONTRACTOR EXCEPT HID READERS.
3. ALL LATCHING HARDWARE TO BE FAIL-SAFE UNLESS NOTED OTHERWISE.

DOOR TYPES:



Edward David Hurley
A 12896
04/13/2018

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1" ACTUAL

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SEARHC ALICIA ROBERTS MEDICAL CENTER

NWA 1644
KLAWOCK, ALASKA

SHEET TITLE:
SCHEDULES

CHECKED DH
DRAWN BK

Revision ID

SHEET # A0.2
PLOT DATE 4/9/2018
ISSUE DATE 4/13/2018

ROOM FINISH SCHEDULE

RM #	ARCH PLAN NAME	FLOOR		WALL								CEILING		CASEWORK		SIGNAGE	COMMENTS
		MATL.	BASE	N WALL		E WALL		S WALL		W WALL		MATL.	FINISH	CABINET MATL.	COUNTERTOP & BACK-SPLASH MATL.	NAME	
				MATL.	FINI...	MATL.	FINI...	MATL.	FINI...	MATL.	FINI...						
106-A	CORR	RSF-1	RB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT					
106-B	CORR	RSF-1	RB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT					
106-C	CORR	RSF-1	RB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT					
106-D	CORR	RSF-1	RB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT					
106-E	CORR	RSF-1	RB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT					
106-F	CORR	RSF-1	RB		PNT		PNT		PNT		PNT	ACT					
106-G	CORR	RSF-1	RB		PNT		PNT		PNT		PNT	ACT					
106-H	CORR	RSF-1	RB		PNT		PNT		PNT		PNT	ACT					
106-I	CORR	RSF-1	RB		PNT		PNT		PNT		PNT	ACT					
106-J	CORR	RSF-1	RB		PNT		PNT		PNT		PNT	ACT					
107	TALKING	RSF-1	RB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT		PL-1	SSM-1	TALKING	
108	CLEAN	RSF-1	ICB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT		PL-1	SSM-1	CLEAN	
109	SOILED	RSF-1	ICB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT				SOILED	
110	STOR.	RSF-1	RB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT		PL-2	SSM-2	STORAGE	
111-A	EXAM 1	RSF-2	ICB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT		PL-2	SSM-2	EXAM 1	
111-B	EXAM 2	RSF-2	ICB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT		PL-2	SSM-2	EXAM 2	
111-C	EXAM 3	RSF-2	ICB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT		PL-2	SSM-2	EXAM 3	
111-D	EXAM 4	RSF-2	ICB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT		PL-2	SSM-2	EXAM 4	
111-E	EXAM 5	RSF-2	ICB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT		PL-2	SSM-2	EXAM 5	
111-F	EXAM 6	RSF-2	ICB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT		PL-2	SSM-2	EXAM 6	
111-G	EXAM 7	RSF-2	ICB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT		PL-2	SSM-2	EXAM 7	
111-H	EXAM 8	RSF-2	ICB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT		PL-2	SSM-2	EXAM 8	
111-I	EXAM 9	RSF-2	ICB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT		PL-2	SSM-2	EXAM 9	
111-J	EXAM 10	RSF-2	ICB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT		PL-2	SSM-2	EXAM 10	
111-K	EXAM 11	RSF-2	ICB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT		PL-2	SSM-2	EXAM 11	
111-L	EXAM 12	RSF-2	ICB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT		PL-2	SSM-2	EXAM 12	
112	INT. CARE TEAM	CPT-2	RB							GWB	PNT	ACT				INTEGRATED CARE TEAM	GWB, PTN-1 AND RB AT LOW PARTITIONS
113	TOILET	RSF-1	ICB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT			TOILET	
115	HSKP	RSF-1	ICB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT				HOUSEKEEPING	
116	STORAGE	RSF-1	RB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT				STORAGE	
117	CT CONTROL	RSF-2	RB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT				CT CONTROL	
118	CT	RSF-2	RB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT		PL-2	SSM-2	CT	
119	TOILET	RSF-1	ICB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT			TOILET	

ROOM FINISH NOTES:

1. ALL GWB TO BE PAINTED PNT-1, UNO PER A5.0.

ROOM FINISH LEGEND

ACT: ACOUSTICAL CEILING TILE
CPT: TILE CARPETING
ETR: EXISTING TO REMAIN
GWB: GYPSUM WALL BOARD
ICB: INTEGRAL COVE BASE
PL: CASEWORK & DOOR PLASTIC-LAMINATE
PNT: PAINT
RB: RESILIENT BASE
RSF: RESILIENT FLOORING - SHEET VINYL
SSM: SOLID SURFACE COUNTERTOP
WOM: WALK-OFF MAT



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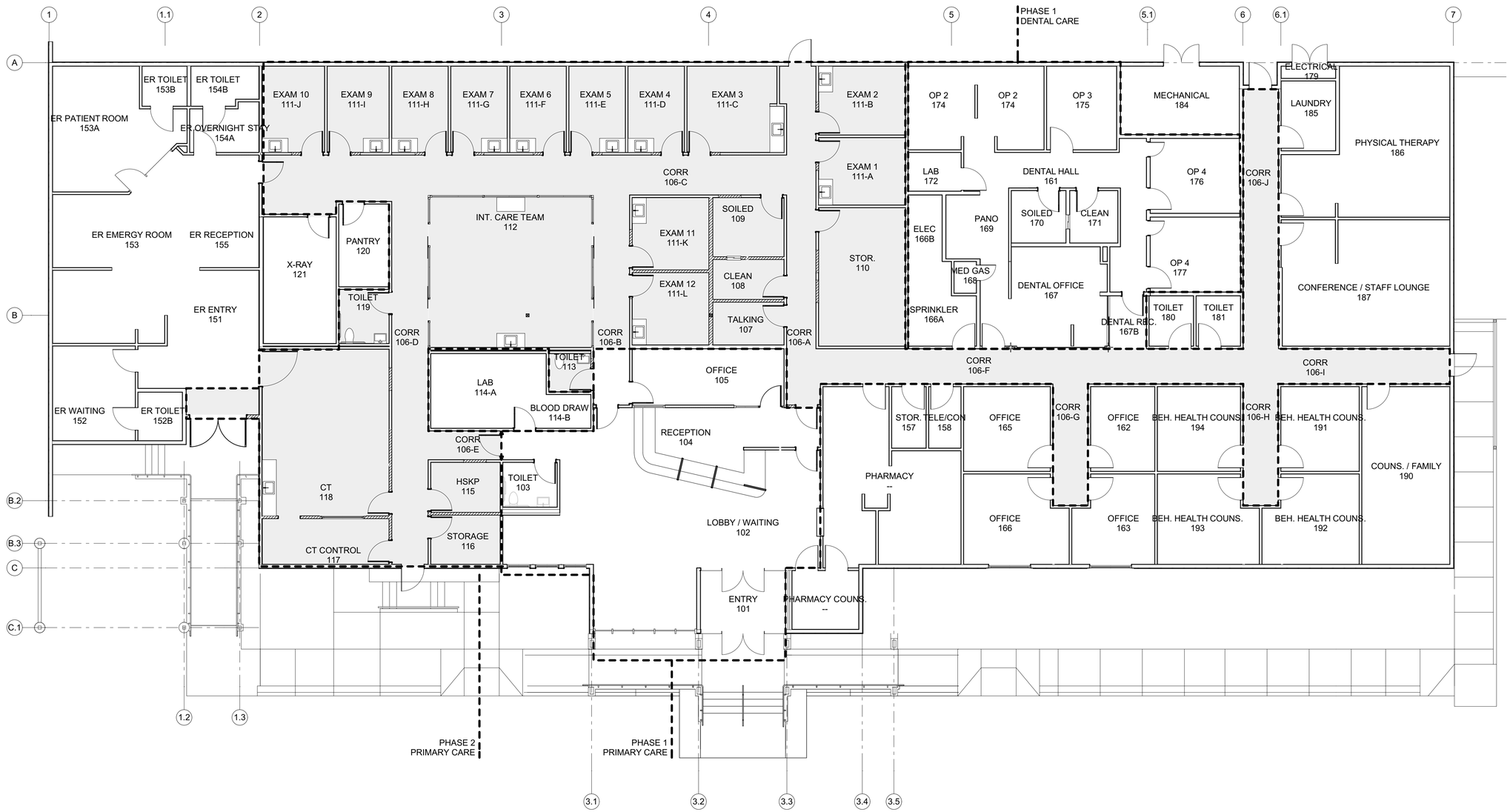
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SCHEDULES

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1 KEY FLOOR PLAN
SCALE: 1/8" = 1'-0"

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SHEET TITLE:
KEY FLOOR PLAN

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1 DEMOLITION FLOOR PLAN
SCALE: 3/16" = 1'-0"

DEMO GENERAL NOTES

1. FIELD VERIFY ACTUAL BUILDING CONDITIONS AND DIMENSIONS. WHERE DISCREPANCIES ARE FOUND, NOTIFY ARCHITECT/OWNER IMMEDIATELY.
2. CONTRACTOR SHALL FULLY PROTECT ALL AREAS ADJACENT TO WORK AREA FROM DUST, FUMES, ODORS AND EXCESSIVE NOISE USING CONSTRUCTION BARRIERS. CONTRACTOR SHALL PREPARE AND SUBMIT FOR REVIEW CONSTRUCTION BARRIER DESIGN PRIOR TO COMMENCING WORK.
3. WHERE WORK AFFECTS STRUCTURAL ELEMENTS, WHETHER INDICATED OR NOT; CONTRACTOR SHALL HAVE PREPARED AND SUBMIT AN ENGINEERS PROTECTION AND/OR SHORING PLAN FOR REVIEW PRIOR TO COMMENCING WORK.
4. DEMOLISH AND DISPOSE OF ALL ARCHITECTURAL ITEMS AND ALL FLOOR AND CEILING FINISHES WITHIN ROOMS INSIDE WORK LIMITS, UON.
5. PROTECT IN-PLACE GWB ON WALLS TO REMAIN WITHIN DEMOLITION AREA.
6. DEMOLISH (E) GYPSUM BOARD ON RENOVATION SIDE OF WALLS OTHERWISE SCHEDULED TO REMAIN WHERE MECH., ELEC. OR ARCH. WORK WILL OCCUR.
7. WHERE (E) SUPPORT FOR MECH., ELEC. AND ALL OTHER ITEMS IS BEING REMOVED BY DEMOLITION OF EXISTING WALLS AND CEILING JOIST, PERMANENTLY RESUPPORT BY SUSPENSION FROM ROOF STRUCTURE. SUBMIT DELEGATED DESIGN SUSPENSION AND SEISMIC BRACING PLAN FOR REVIEW/APPROVAL AND INSTALL NEW SUPPORT SYSTEM PRIOR TO DEMOLITION.
8. SEE MECH AND ELEC DWGS FOR EXTENT OF MECH. AND ELEC. DEMOLITION. PROTECT IN PLACE ALL ITEMS INDICATED TO REMAIN.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXTENT OF CONCRETE SAW CUTTING, TRENCHING, BEDDING, BACKFILL AND CONCRETE PATCH-BACK REQUIRED FOR NEW MECH. AND ELEC. UNDERGROUND LINES.
10. SALVAGE, CLEAN AND TEMPORARILY STORE ALL PERMANENT AND SEMI-PERMANENT ARTWORK.
11. WHERE DEMOLITION AFFECTS STRUCTURE OR FINISHES OTHERWISE SCHEDULED TO REMAIN, PATCH-BACK TO MATCH ADJACENT CONDITIONS. AFFECTED PAINTED SURFACES SHALL BE RE-PAINTED OVER ENTIRE EXTENT.

DEMO PLAN KEY NOTES

1. DEMOLISH ARCHITECTURAL CASEWORK THIS AREA
2. EXISTING COLUMN TO REMAIN
3. EXISTING ELECTRICAL PANELS TO REMAIN
4. DEMO FINISHES WORK EXTENDS THROUGHOUT ALL CORRIDORS IN FACILITY

DEMO PLAN LEGEND

(E) PARTITION TO REMAIN

(E) PARTITION TO BE DEMOLISHED

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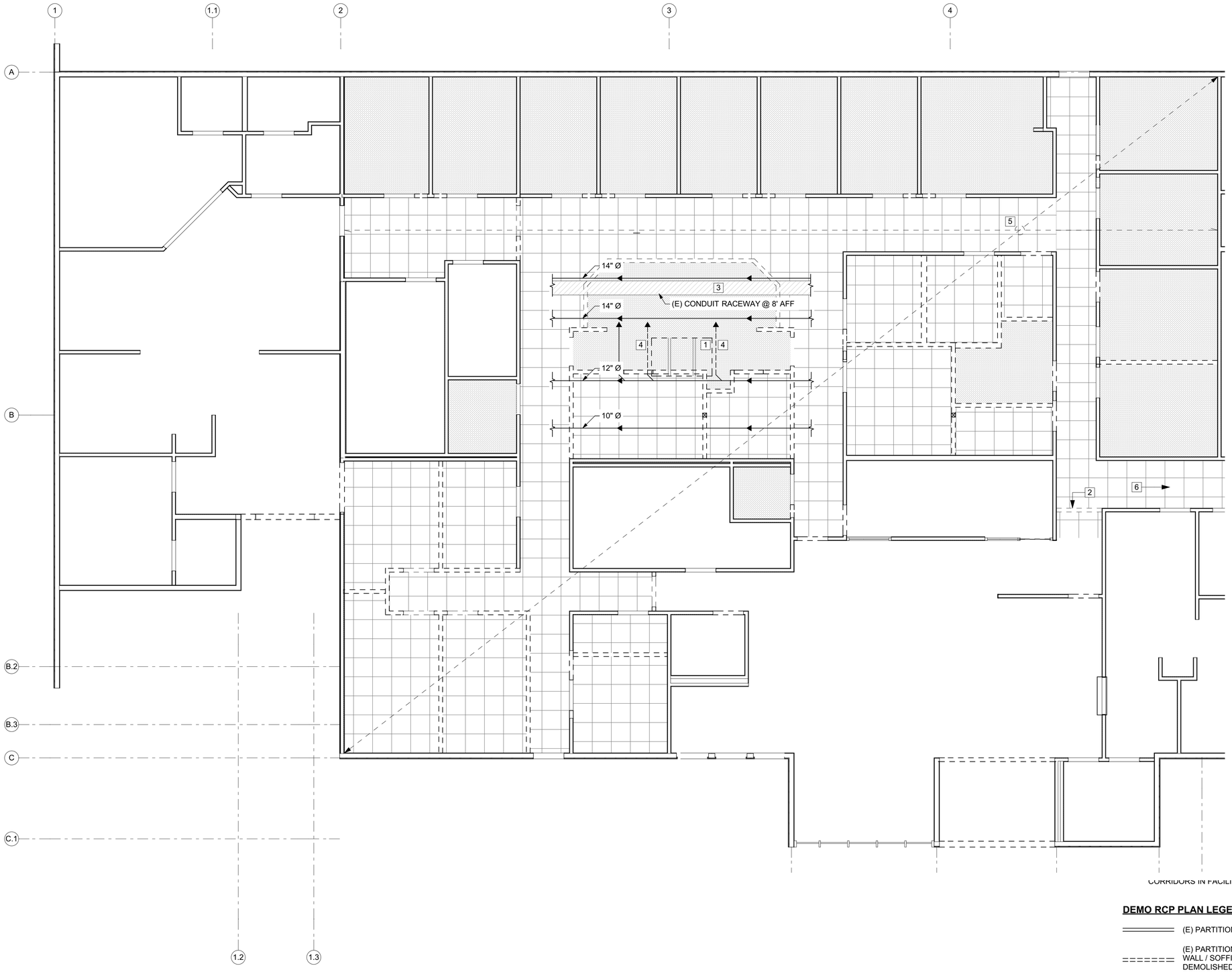
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SHEET TITLE:
DEMO FLOOR PLAN

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PLOT DATE 4/9/2018
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1 DEMOLITION REFLECTED CEILING PLAN
SCALE: 3/16" = 1'-0"

DEMO RCP GENERAL NOTES

1. FIELD VERIFY ACTUAL BUILDING CONDITIONS AND DIMENSIONS. WHERE DISCREPANCIES ARE FOUND, NOTIFY ARCHITECT/OWNER IMMEDIATELY.
2. CONTRACTOR SHALL FULLY PROTECT ALL AREAS ADJACENT TO WORK AREA FROM DUST, FUMES, ODORS AND EXCESSIVE NOISE USING CONSTRUCTION BARRIERS. CONTRACTOR SHALL PREPARE AND SUBMIT FOR REVIEW CONSTRUCTION BARRIER DESIGN PRIOR TO COMMENCING WORK.
3. WHERE WORK AFFECTS STRUCTURAL ELEMENTS, WHETHER INDICATED OR NOT; CONTRACTOR SHALL HAVE PREPARED AND SUBMIT AN ENGINEERS PROTECTION AND/OR SHORING PLAN FOR REVIEW PRIOR TO COMMENCING WORK.
4. DEMOLISH AND DISPOSE OF ALL ARCHITECTURAL ITEMS AND ALL WALL, FLOOR AND CEILING FINISHES WITHIN ROOMS INSIDE WORK LIMITS, UON.
5. PROTECT IN-PLACE GWB ON WALLS TO REMAIN WITHIN DEMOLITION AREA.
6. DEMOLISH (E) GYPSUM BOARD ON RENOVATION SIDE OF WALLS OTHERWISE SCHEDULED TO REMAIN WHERE MECH., ELEC. OR ARCH. WORK WILL OCCUR.
7. WHERE (E) SUPPORT FOR MECH., ELEC. AND ALL OTHER ITEMS IS BEING REMOVED BY DEMOLITION OF EXISTING WALLS AND CEILING JOIST, PERMANENTLY RESUPPORT BY SUSPENSION FROM ROOF STRUCTURE. SUBMIT DELEGATED DESIGN SUSPENSION AND SEISMIC BRACING PLAN FOR REVIEW/APPROVAL AND INSTALL NEW SUPPORT SYSTEM PRIOR TO DEMOLITION.
8. SEE MECH AND ELEC DWGS FOR EXTENT OF MECH. AND ELEC. DEMOLITION. PROTECT IN PLACE ALL ITEMS INDICATED TO REMAIN.
9. WHERE DEMOLITION AFFECTS STRUCTURE OR FINISHES OTHERWISE SCHEDULED TO REMAIN, PATCH-BACK TO MATCH ADJACENT CONDITIONS. AFFECTED PAINTED SURFACES SHALL BE RE-PAINTED OVER ENTIRE EXTENT.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXTENT OF CONCRETE SAW CUTTING, TRENCHING, BEDDING, BACKFILL AND CONCRETE PATCH-BACK REQUIRED FOR NEW MECH. AND ELEC. UNDERGROUND LINES.
11. SELECT MECHANICAL AND ELECTRICAL ITEMS SHOWN FOR REFERENCE ONLY, SEE MECH & ELEC.

DEMO RCP SHEET NOTES

1. DEMOLISH ROOF ABOVE FOR (N) SKYLIGHT
2. DEMOLISH (E) HEADWALL
3. ELEVATE CONDUITS FOR (N) 8' CEILING HEIGHT, TYP ALL LOCATIONS
4. REROUTE DUCT(S) AS REQ FOR (N) SKYLIGHT
5. DEMOLISH AND DISPOSE OF ALL (E)COLD-FORM METAL CEILING JOISTS INSIDE OF WORK LIMITS, UON. SEE NOTE 7.
6. DEMO CEILING FINISHES WORK EXTENDS THROUGHOUT ALL CORRIDORS IN FACILITY

CORRIDORS IN FACILITY

DEMO RCP PLAN LEGEND

- (E) PARTITION TO REMAIN
- (E) PARTITION / HEAD WALL / SOFFIT TO BE DEMOLISHED FULL EXTENT, UON.
- (E) CEILING TO REMAIN
- 24"X24" ACT CEILING: TO BE DEMOLISHED

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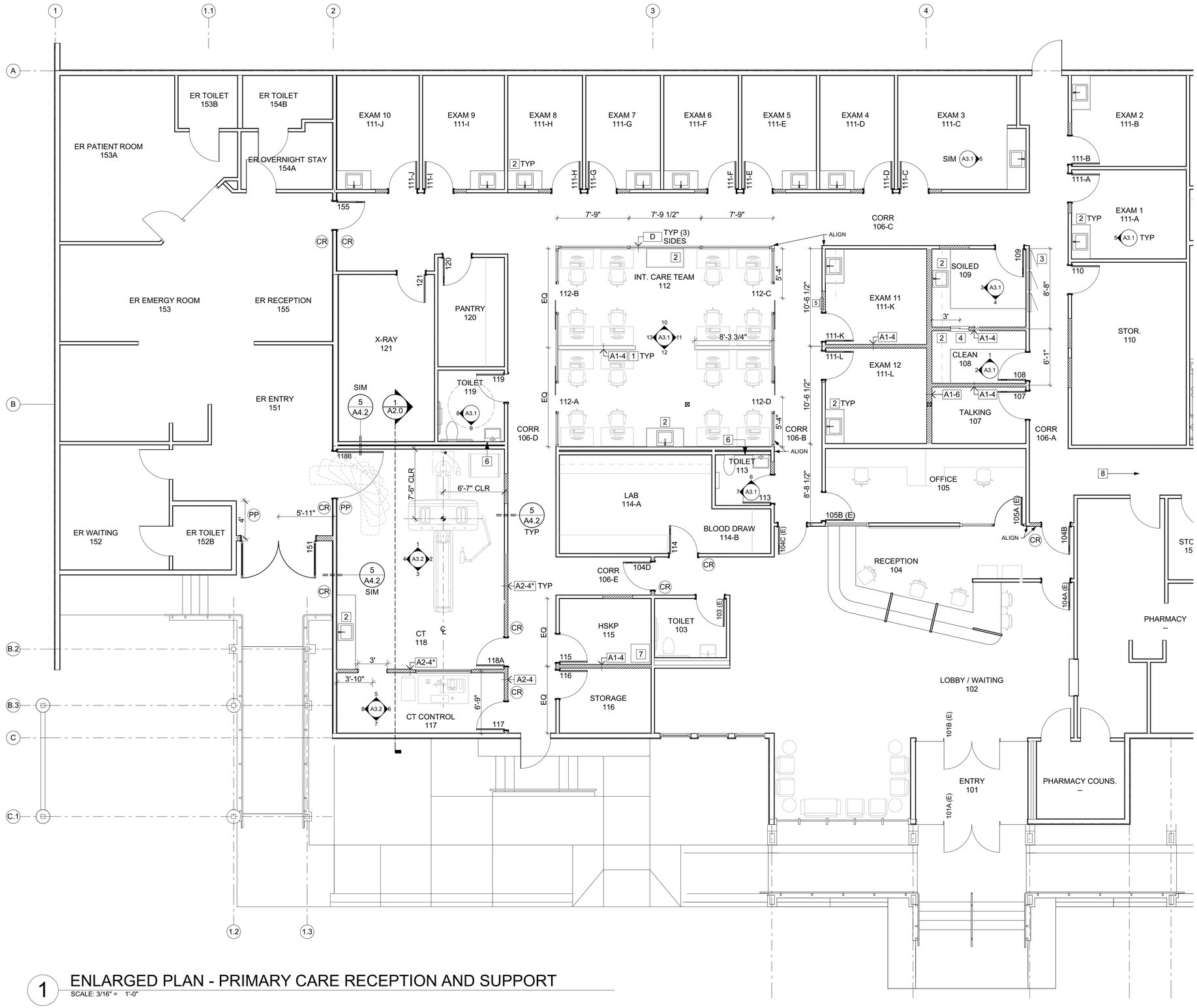
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SHEET TITLE:
DEMO REFLECTED CEILING PLAN

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FLOOR PLAN GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ACTUAL BUILDING CONDITIONS AND DIMENSIONS. WHERE DISCREPANCIES OR CONFLICTS ARE FOUND, NOTIFY ARCHITECT PRIOR TO COMMENCING WORK.
2. DIMENSIONS ARE TO CENTER LINE OR FACE OF FRAMING UNLESS INDICATED OTHERWISE.
3. TAKE CARE TO MAINTAIN THE INTEGRITY OF ALL STRUCTURAL ELEMENTS. IF IN DOUBT ABOUT WHETHER AN ITEM IS STRUCTURAL, NOTIFY ARCHITECT BEFORE PROCEDING.
4. ANCHOR TO STUDS WHERE POSSIBLE, OTHERWISE PROVIDE BLOCKING IN WALLS BEHIND ALL OFCI AND CFCI CASEWORK AND EQUIPMENT. DEMOLISH AND PATCH BACK LIMITED (E) GWB AS NECESSARY.
5. LOCATE DOOR OPENINGS TO ENSURE 3" MIN JAMB FRAMING ALL DOORS. JAMB DEPTH SHALL BE MEASURED FROM FACE OF FINISH OF ADJACENT WALL.
6. ALL WALLS IN RENOVATED AREAS TO HAVE #4 FINISH. IN LIMITED CASES WHERE (E) GWB IS LEFT IN PLACE, SKIM COAT TO ACHIEVE REQUIRED FINISH.
7. WHERE WORK AFFECTS STRUCTURE OR FINISHES OTHERWISE SCHEDULED TO REMAIN, PATCH-BACK TO MATCH ADJACENT CONDITIONS. AFFECTED PAINTED SURFACES SHALL BE RE-PAINTED OVER ENTIRE EXTENT.

FLOOR PLAN SHEET NOTES

1. TOP OF PARTITION AT 30" AFF W/ SSM CAP
2. ARCHITECTURAL CASEWORK
3. EXISTING ELECTRICAL PANELS TO REMAIN
4. COILING COUNTER DOOR
5. (N) FIRE EXTINGUISHER CABINET
6. FURR (E) PARTITION AS NECESSARY FOR MIN DEPTH REQ FOR FIXTURE CARRIER
7. MOP SINK, SEE MECH
8. NEW FINISHES WORK EXTENDS THROUGHOUT ALL CORRIDORS IN FACILITY

FLOOR PLAN LEGEND

- (E) WALL
- NEW WALL
- CR — ACCESSS CONTROL CARD READER
- PP — PUSH PADDLE DOOR ACTUATOR

1 ENLARGED PLAN - PRIMARY CARE RECEPTION AND SUPPORT

SCALE: 3/16" = 1'-0"

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FLOOR PLAN

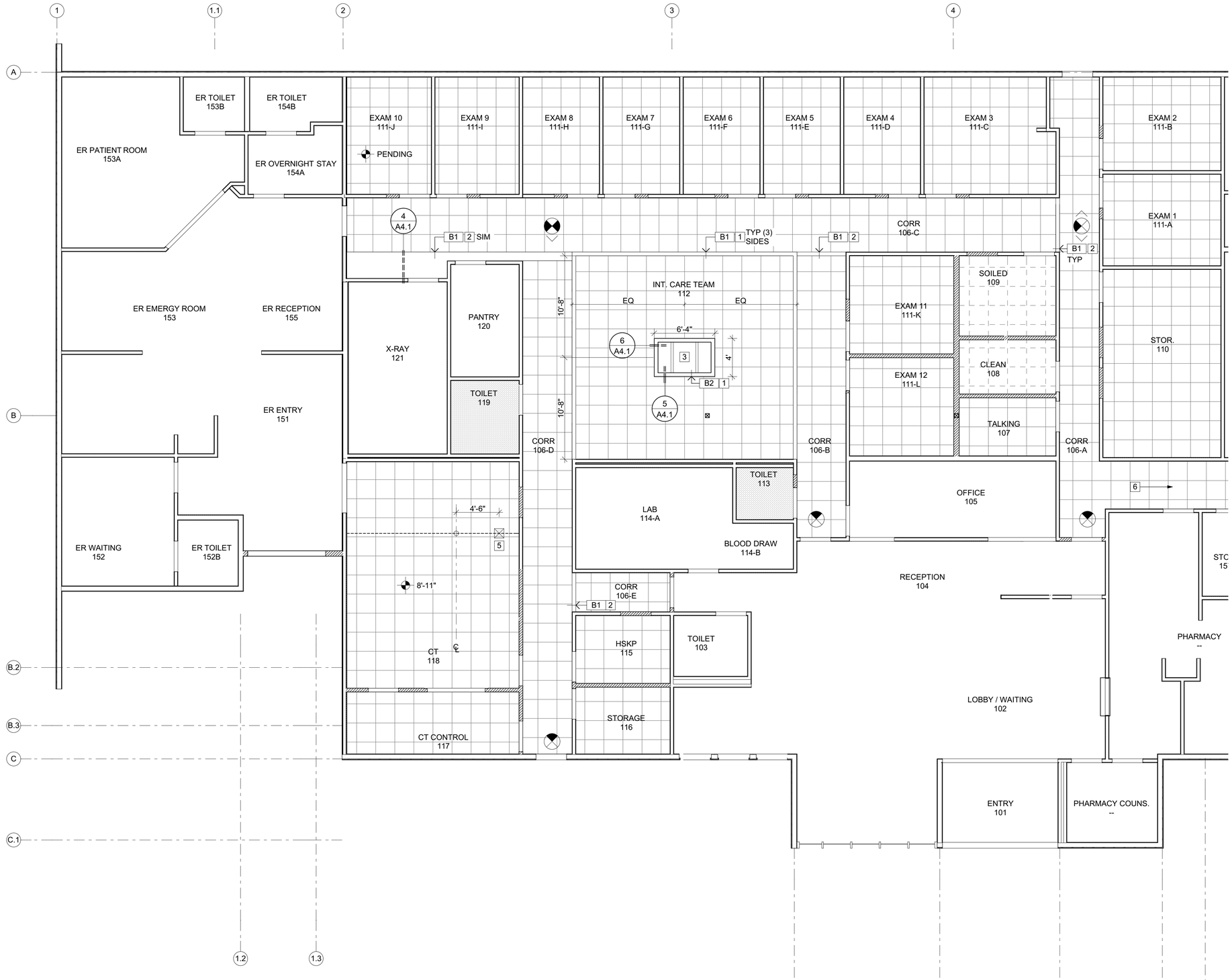
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2 ASI 01 17.11.08
3 18.01.09

SHEET # A1.4

PLOT DATE	4/9/2018
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1 REFLECTED CEILING PLAN - PRIMARY CARE RECEPTION AND SUPPORT
SCALE: 3/16" = 1'-0"

RCP GENERAL NOTES

1. ALL NEW CEILING HEIGHTS TO MATCH EXISTING, UON.
2. COORDINATE LOCATION OF ALL MEP ITEMS WITH MEP
3. CENTER MEP ITEMS INCLUDING SPRINKLER HEADS IN CEILING TILES
4. LINEWORK DEPICTING CEILING TILES IS TO SHOW EXTENT ONLY. POSITION GRID SUCH THAT NO EDGE TILE IS LESS THAN 6" IN WIDTH. CENTER GRID IN SPACES WHEREVER POSSIBLE.
5. LINEWORK DEPICTING CEILING PENETRATIONS IS TO SHOWN FOR REFERENCE ONLY. SEE MECH AND ELEC.
6. AT CEILING JOINTS BETWEEN EXISTINIG TO REMAIN AND NEW OF SAME TYPE, ALIGN SUSPENSION MEMBERS AND FINISH SURFACES, JOINTS AND PATTERNS

RCP SHEET NOTES

1. (N) HEAD WALL/SOFFIT
2. (N) OPTIONAL HEADWALL PENDING NEW CEILING GRID LAYOUT
3. (N) SKYLIGHT
4. NOTE OPEN
5. MOUNTING PLATE FOR CT CEILING MOUNTED INJECTOR
6. NEW CEILING FINISHES WORK EXTENDS THROUGHOUT ALL CORRIDORS IN FACILITY

RCP LEGEND

- (N) PARTITION / HEAD WALL / SOFFIT
- (E) CEILING TO REMAIN
- 24"X24" ACT CEILING ON SUSPENSION SYSTEM
- 24"X24" ACT CEILING ON CLEAN-ROOM SPENSION SYSTEM
- GWB
- +/- FINISH CEILING HEIGHT MARKER
- LIT EXIT SIGN

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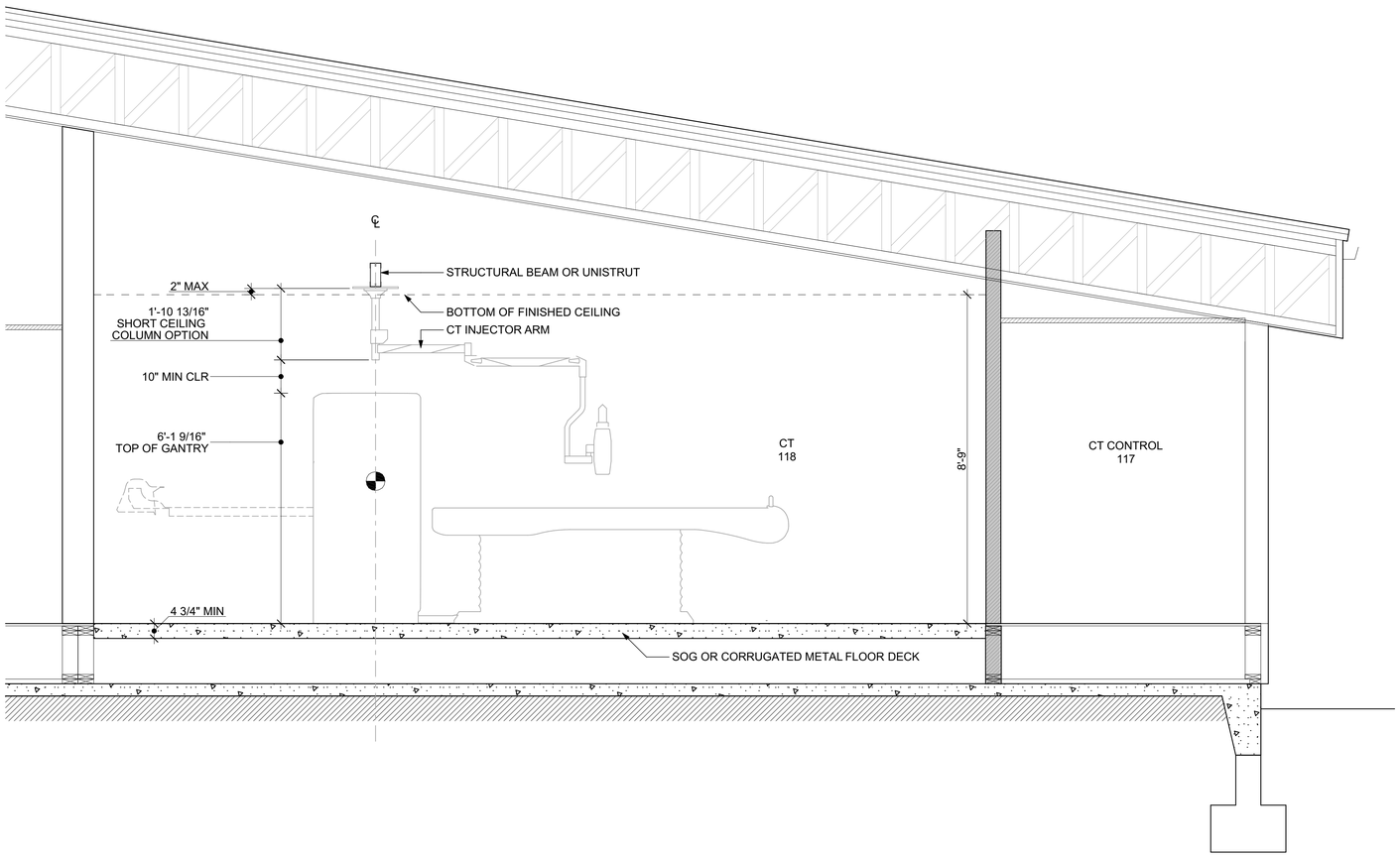
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REFLECTED CEILING PLAN

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1 CT
SCALE: 1/2" = 1'-0"



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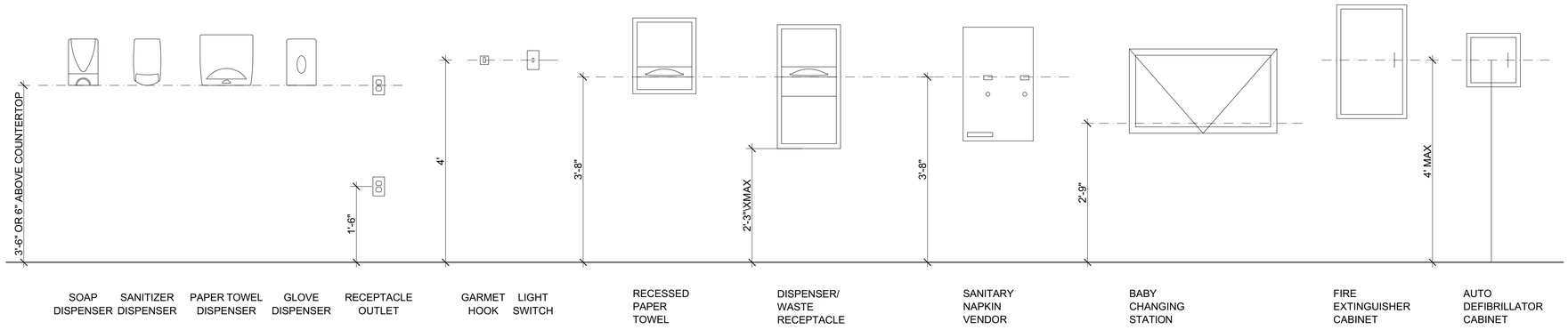
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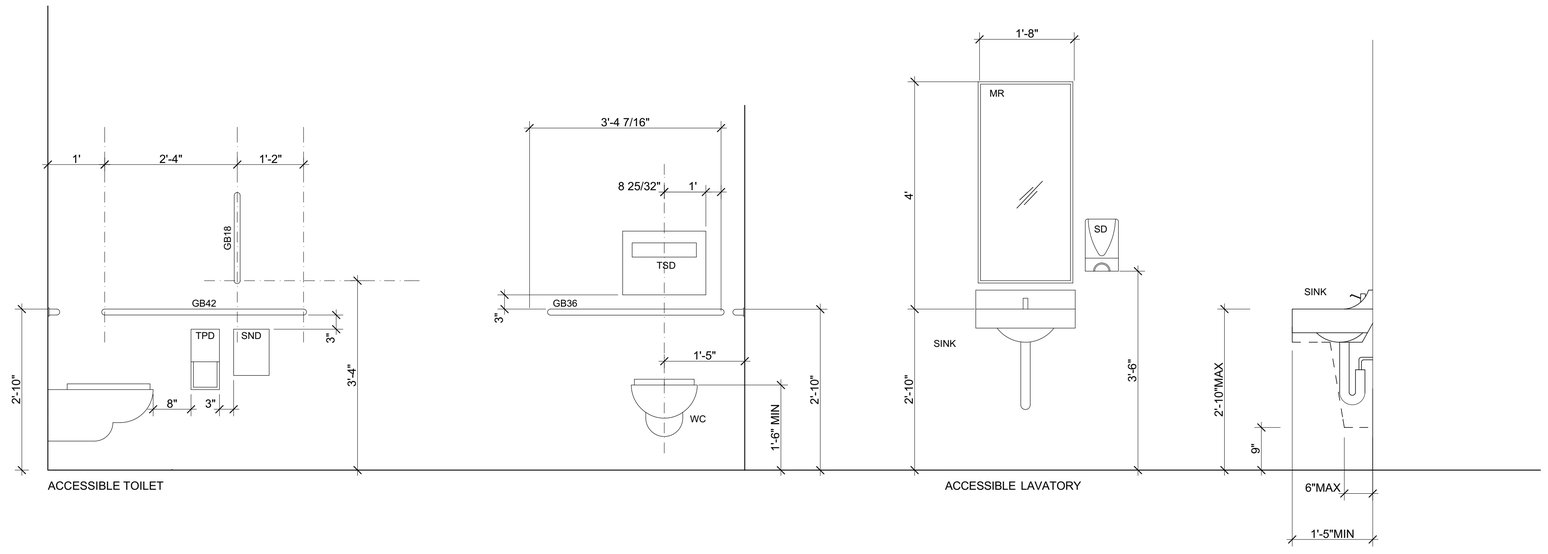
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1 TYPICAL MOUNTING DIMENSIONS

SCALE: 3/4" = 1'-0"

MOUNT. HEIGHTS GENERAL NOTES

1. MOUNT ITEMS AT THE HEIGHTS ABOVE FINISH FLOOR LEVELS AS SHOWN ON THE SHEET, UNLESS OTHERWISE NOTHED ON INTERIOR ELEVATION OR OTHER DRAWINGS.
2. WHERE ITEMS ARE RECESSED INTO FIRE-RATED PARTITIONS, PROVIDE CONTINUOUS FIRE-RATED CONSTRUCTION BEHIND AND AROUND ITEMS.
3. BLOCKING OR BACKING AS REQUIRED FOR ALL WALL MOUNTED ITEMS

MOUNT. HEIGHTS ABBREV.

PTD	PAPER TOWEL DISPENSER
PTD/WR	PAPER TOWEL DISPENSER/WASTE RECEPTICLE
SNV	SANITARY NAPKIN VENDING
BCS	BABY CHANGING STATION
FS	FOLDING SHELF
WC	WATER CLOSET
SND	SANITARY NAPKIN DISPENSER
TSD	TOILET SEAT DISPENSER
GB	GRAB BAR
UR	URINAL
MR	MIRROR
SD	SOAP DISPENSER
MB	MARKER BOARD
BM	BASE MOULDING

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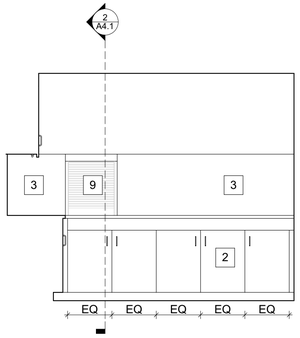
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MOUNTING DIMENSIONS

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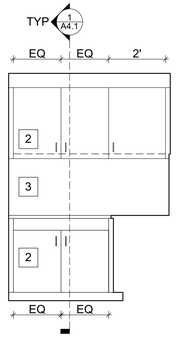
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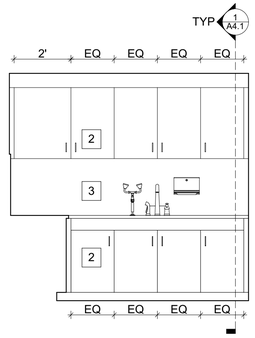
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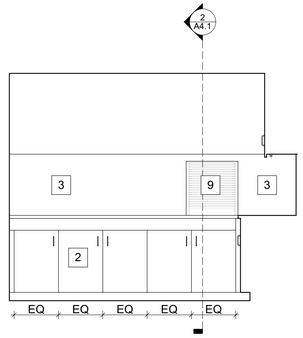
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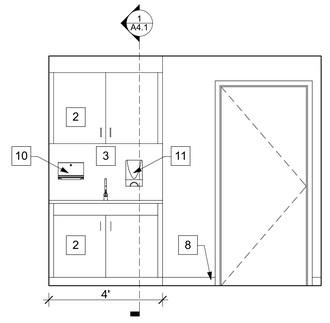
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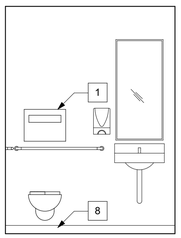
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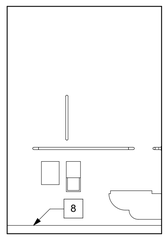


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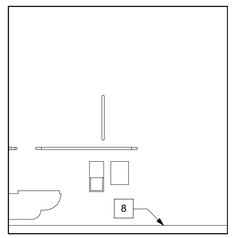
5 EXAM, TYP.
SCALE: 3/8" = 1'-0"



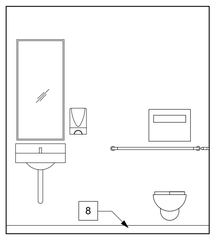


6 TOILET 113
SCALE: 3/8" = 1'-0"

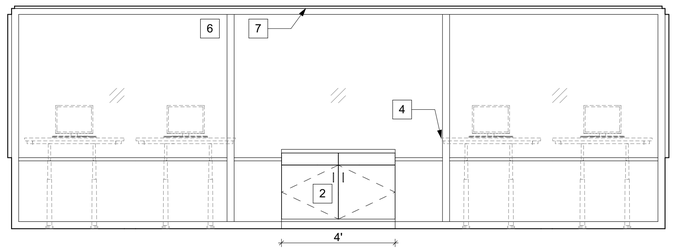
7 TOILET 113
SCALE: 3/8" = 1'-0"



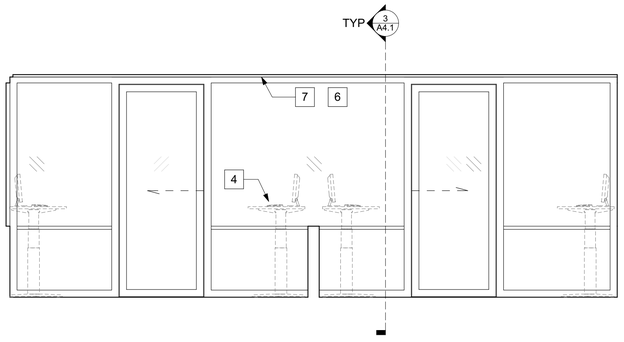
8 TOILET 119
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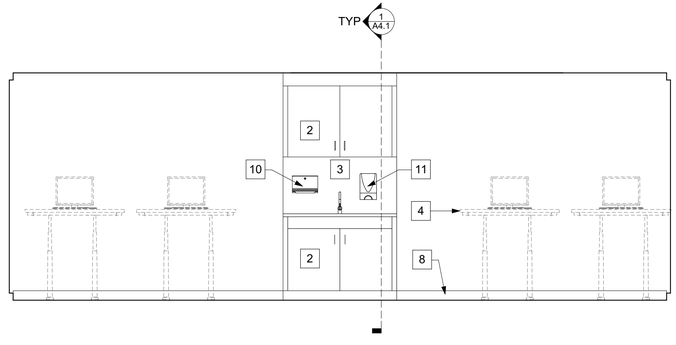
9 TOILET 119
SCALE: 3/8" = 1'-0"



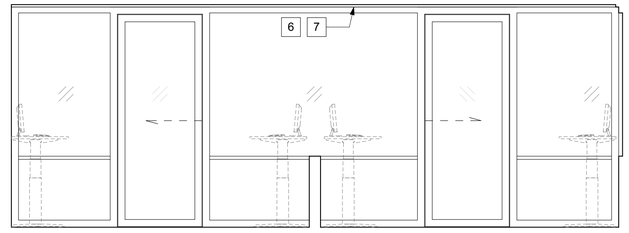
10 INTEGRATED CARE TEAM
SCALE: 3/8" = 1'-0"



11 INTEGRATED CARE TEAM
SCALE: 3/8" = 1'-0"



12 INT. CARE TEAM
SCALE: 3/8" = 1'-0"



13 INTEGRATED CARE TEAM
SCALE: 3/8" = 1'-0"

INTERIOR ELEVATION GENERAL NOTES

1. FOR TYPICAL BASE AND UPPER CASEWORK DETAILS REFER TO A/3.1.
2. COORDINATE GROMMET LOCATIONS WITH OWNER IN FIELD.
3. COUNTER BRACKET SPACING NOT TO EXCEED 4'-0" O.C. COORDINATE EXACT LOCATION WITH OWNERS EQUIPMENT, KEYBOARD TRAYS AND ACCESSORY PLACEMENT. ALL COUNTER BRACKETS TO HAVE CONTINUOUS BACKING
4. CORNER GUARDS AND WALL PROTECTION NOT SHOWN FOR EVERY LOCATION. SEE FINISH PLANS AND ELEVATIONS FOR LOCATIONS.
5. SHIM FOR FLUSH LEVEL INSTALLATION WHERE ACCESSORIES ARE PARTIALLY MOUNTED ON PROTECTIVE WALL COVERINGS.

INT. ELEVATION SHEET NOTES

1	RESILIENT BASE
2	ARCHITECTURAL CASE WORK
3	SSM BACKSPLASH FULL HEIGHT
4	OFOI ADJUSTABLE HEIGHT DESK
5	ROOM ID PANEL SIGNAGE
6	DEMOUNTABLE PARTITION
7	HEADWALL SOFFIT
8	INTEGRAL COVE BASE
9	OPENING W/ COILING COUNTER DOOR
10	PAPER TOWEL DISPENSER
11	SOAP DISPENSER

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A 12896
REGISTERED ARCHITECT
04/13/2018

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1" ACTUAL

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NWA 1644
KLAWOCK, ALASKA

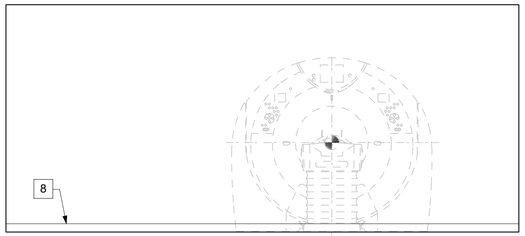
SHEET TITLE:
INTERIOR ELEVATIONS

CHECKED	DH
DRAWN	BK

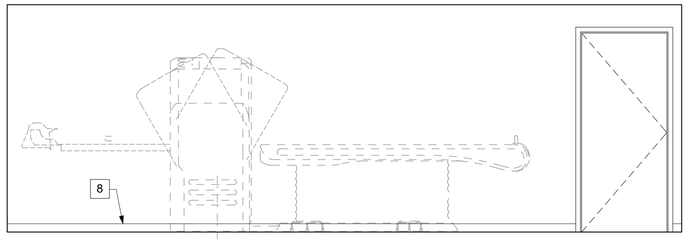
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SHEET # A3.1

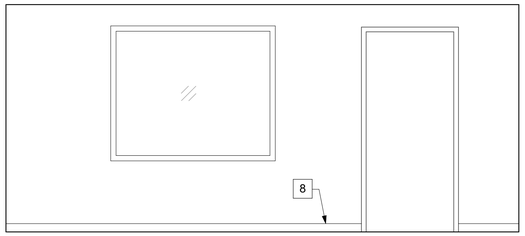
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ISSUE DATE	4/13/2018



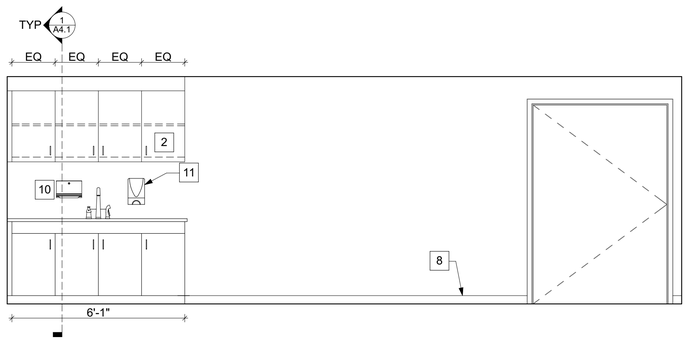
1 PC - CT
SCALE: 3/8" = 1'-0"



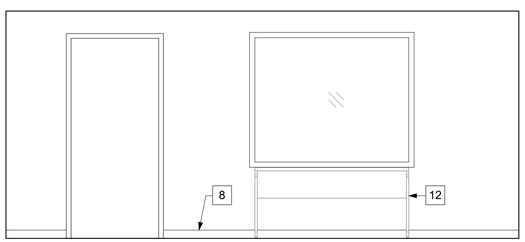
2 PC - CT
SCALE: 3/8" = 1'-0"



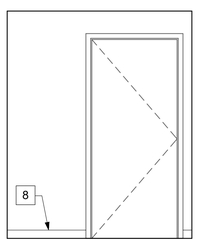
3 PC - CT
SCALE: 3/8" = 1'-0"



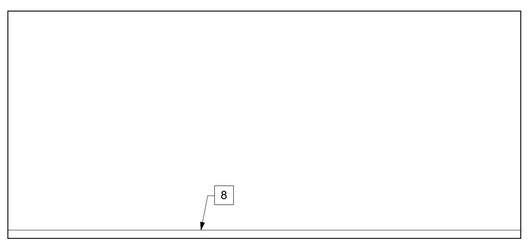
4 PC - CT
SCALE: 3/8" = 1'-0"



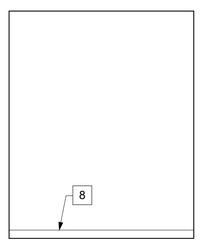
5 PC - CT CONTROL
SCALE: 3/8" = 1'-0"



6 PC - CT CONTROL
SCALE: 3/8" = 1'-0"



7 PC - CT CONTROL
SCALE: 3/8" = 1'-0"



8 PC - CT CONTROL
SCALE: 3/8" = 1'-0"

INTERIOR ELEVATION GENERAL NOTES

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6	DEMOUNTABLE PARTITION
7	HEADWALL SOFFIT
8	INTEGRAL COVE BASE
9	OPENING W/ COILING COUNTER DOOR
10	PAPER TOWEL DISPENSER
11	SOAP DISPENSER
12	CT CONTROL DESK BY AQUILION

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04/13/2018

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1" ACTUAL
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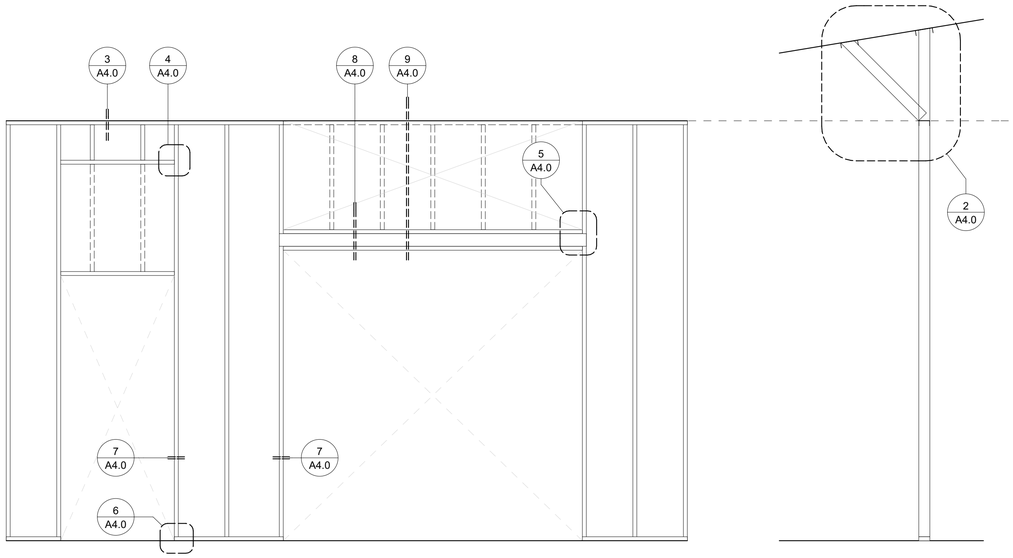
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NWA 1644
KLAWOCK, ALASKA

SHEET TITLE:
INTERIOR ELEVATIONS

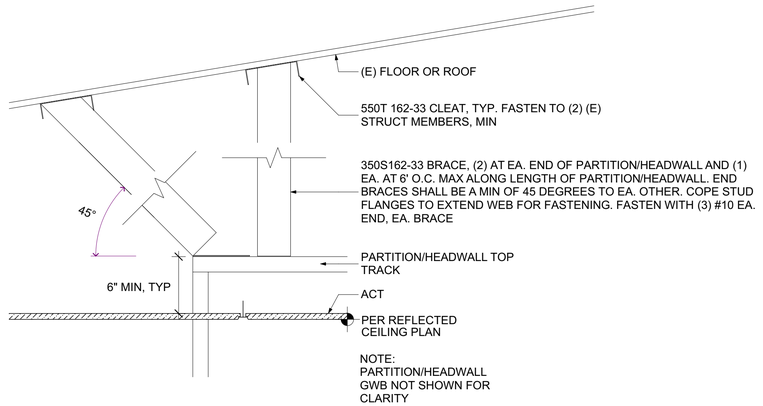
CHECKED DH
DRAWN BK

Revision ID

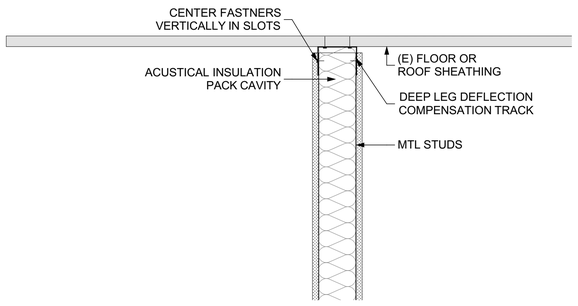
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PLOT DATE 4/9/2018
ISSUE DATE 4/13/2018



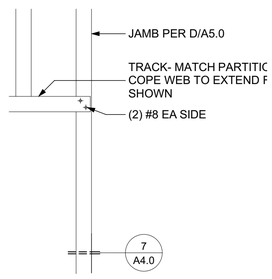
1 TYPICAL PARTITION FRAMING
SCALE: 1/2" = 1'-0"



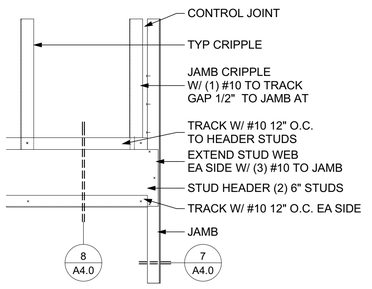
2 HEADWALL BRACING
SCALE: 1 1/2"= 1'-0"



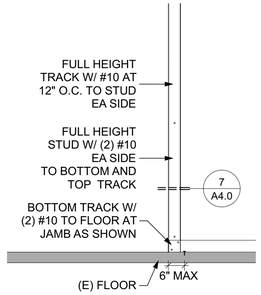
3 PARTITION HEAD, FULL HEIGHT
SCALE: 1 1/2"= 1'-0"



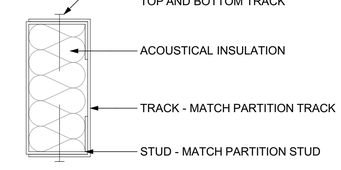
4 HEADER < 3'
SCALE: 1 1/2"= 1'-0"



5 HEADER > 3'
SCALE: 1 1/2"= 1'-0"

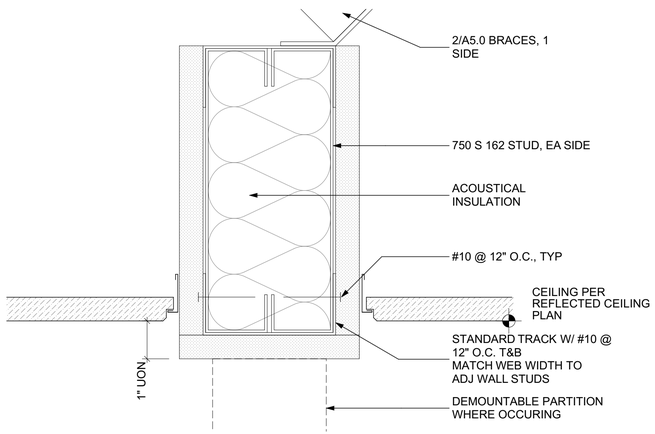


6 JAMB
SCALE: 1 1/2"= 1'-0"

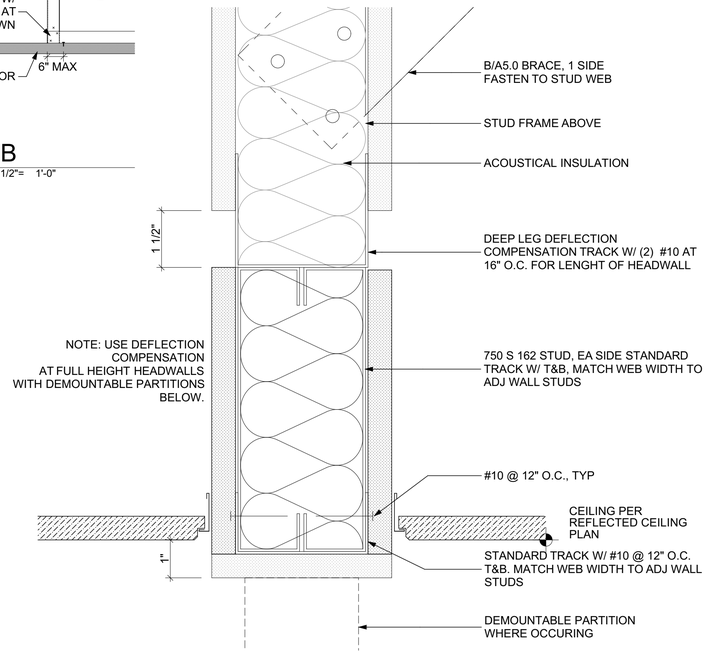


NOTE:
1- PARTITION TOP TRACK SHALL BE BRACED PER E/A5.2 WITH A MIN OF ONE BRACE PERPENDICULAR TO PARTITION WITHIN 24" OF EACH JAMB

7 JAMB
SCALE: 6" = 1'-0"



8 HEADER/HEADWALL, PARTIAL HEIGHT
SCALE: 6" = 1'-0"



9 HEADWALL, FULL HEIGHT
SCALE: 6" = 1'-0"

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04/13/2018

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1" ACTUAL

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NWA 1644
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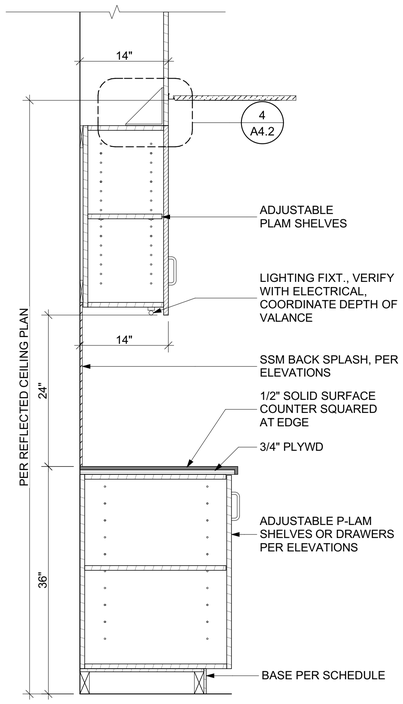
SHEET TITLE:
DETAILS

CHECKED	DH
DRAWN	BK

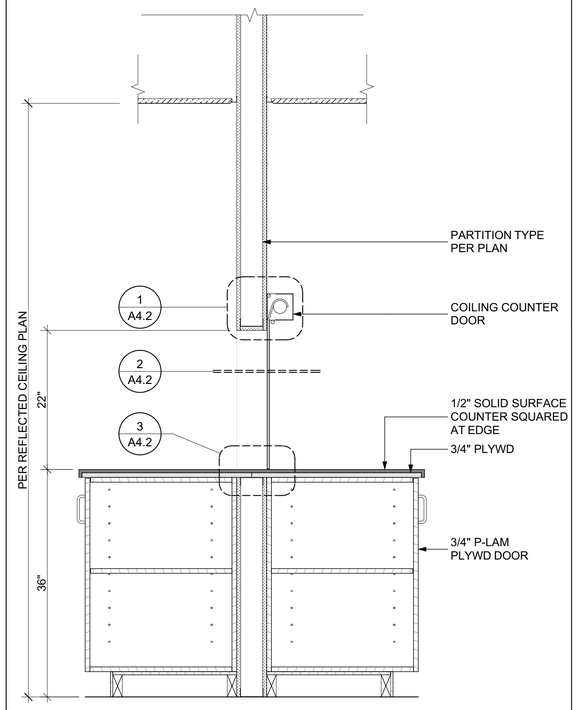
Revision ID

SHEET # A4.0

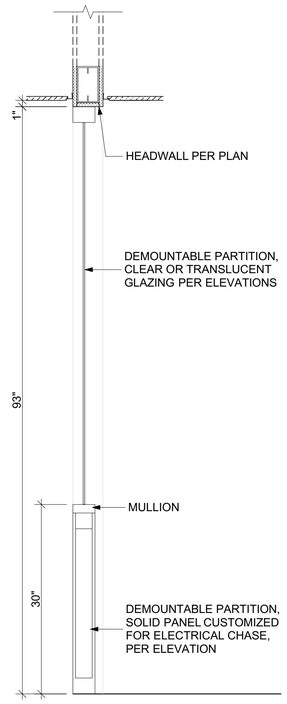
PLOT DATE	4/9/2018
ISSUE DATE	4/13/2018



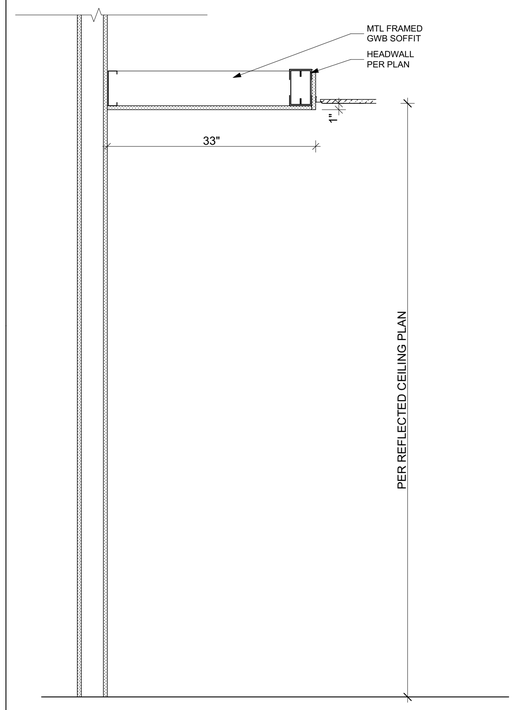
1 SECTION DETAIL
SCALE: 1" = 1'-0"



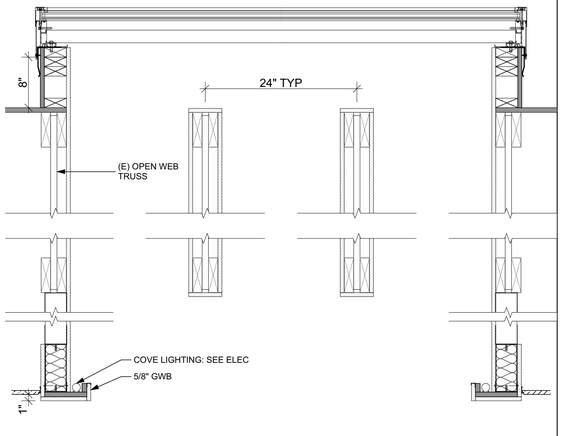
2 SECTION DETAIL
SCALE: 1" = 1'-0"



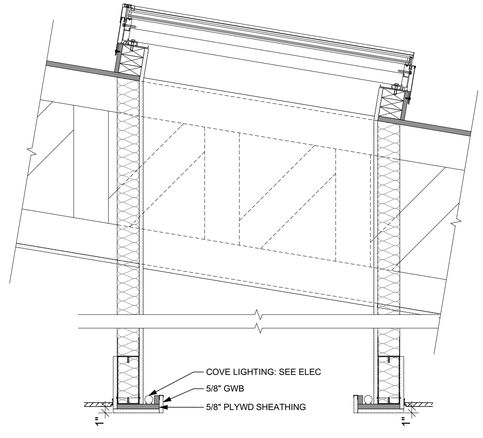
3 SECTION DETAIL
SCALE: 1" = 1'-0"



4 SECTION DETAIL
SCALE: 1" = 1'-0"



5 SECTION DETAIL
SCALE: 1" = 1'-0"



6 SECTION DETAIL
SCALE: 1" = 1'-0"

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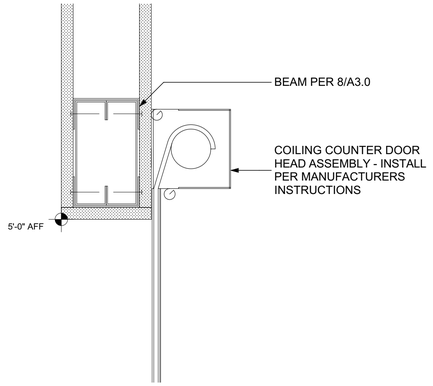
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DETAILS

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DRAWN	BK

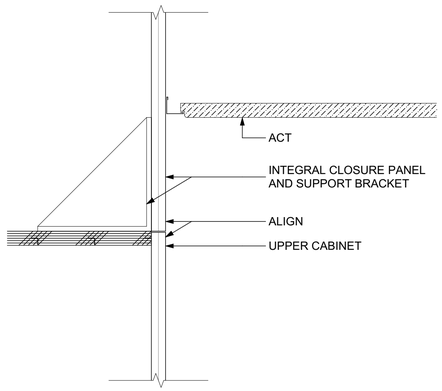
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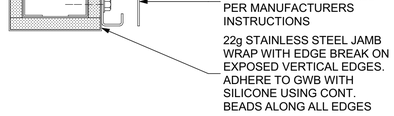
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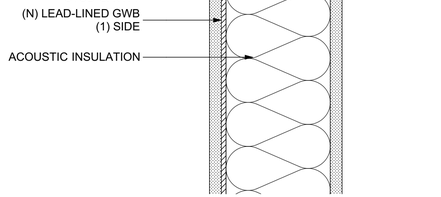
1 DETAIL
SCALE: 3" = 1'-0"



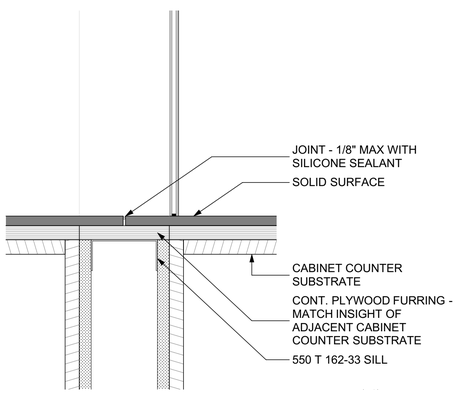
4 DETAIL
SCALE: 3" = 1'-0"



2 DETAIL
SCALE: 3" = 1'-0"



5 DETAIL
SCALE: 3" = 1'-0"



3 DETAIL
SCALE: 3" = 1'-0"

Edward David Hurley
A 12896
08/31/2017

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KLAWOCK, ALASKA

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DETAILS

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Revision ID

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PLOT DATE	4/9/2018
ISSUE DATE	4/13/2018



1 FINISH PLAN
SCALE: 3/16" = 1'-0"

FINISH PLAN SHEET NOTES

1 NEW FINISHES WORK EXTENDS THROUGHOUT ALL CORRIDORS IN FACILITY

FINISH PLAN LEGEND

- ETR: (E) TO REMAIN FINISH
- RSF: RESILIENT SHEET FLOORING
- CPT: CARPET
- RSF-X / CPT-X: FLOOR FINISH CALL OUT AT THRESHOLD
- PNT-X: PNT: ACCENT COLOR

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04/13/2018

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1" ACTUAL

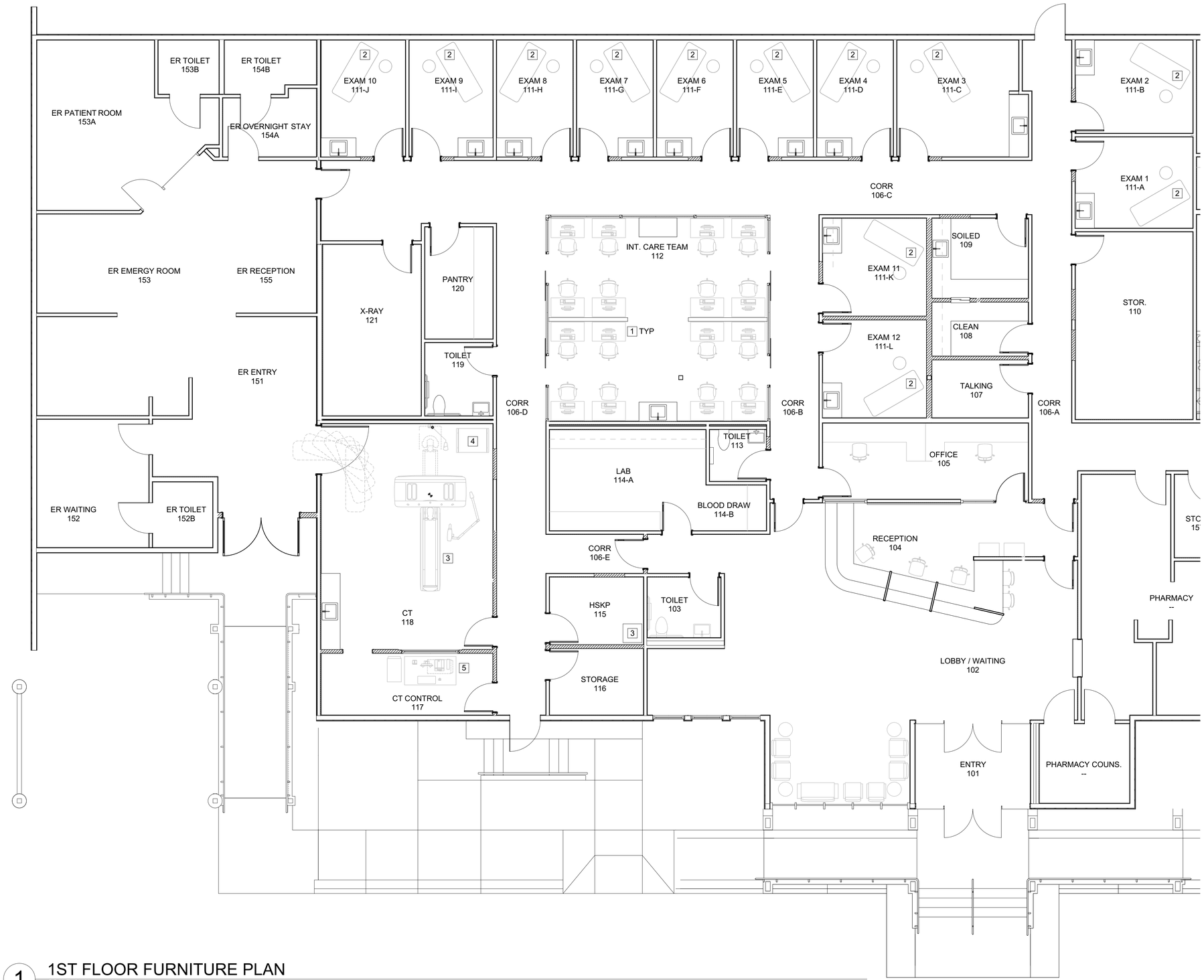
IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES.

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SHEET TITLE: FINISH PLAN

CHECKED	DH
DRAWN	BK
Revision ID	
SHEET #	A5.0
PLOT DATE	4/9/2018
ISSUE DATE	4/13/2018



1 1ST FLOOR FURNITURE PLAN

SCALE: 3/16" = 1'-0"

FURN. PLAN SHEET NOTES

1. OFOI 3'-6" ADJUSTABLE HEIGHT DESKS, W/ CHAIRS
2. OFOI EXAM TABLE, W/ CHAIR
3. OFOI CT SCANNER - GANTRY AND PATIENT COUCH
4. OFOI CT SCANNER - POWER DISTRIBUTER
5. OFOI CT SCANNER - CONTROL STATION

Edward David Hurley
A 12896
04/13/2018

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SHEET TITLE:
FURNITURE

CHECKED	DH
DRAWN	BK
Revision ID	

SHEET # A5.1

PLOT DATE	4/9/2018
ISSUE DATE	4/13/2018

ABBREVIATIONS

@	AT	IN HG	INCHES MERCURY
&	AND	IN WC	INCHES WATER COLUMN
#	NUMBER	INSUL	INSULATION
%	PERCENT	IPS	INTERNATIONAL PIPE STANDARD
AD	ACCESS DOOR	K	THERMAL CONDUCTIVITY
AAP	AREA ALARM PANEL	KW	KILOWATT
ADA	AMERICANS WITH DISABILITIES ACT	KWH	KILOWATT HOUR
AFF	ABOVE FINISHED FLOOR	LAT	LEAVING AIR TEMPERATURE
AFG	ABOVE FINISHED GRADE	LB/HR	POUNDS PER HOUR
AHJ	AUTHORITY HAVING JURISDICTION	LBS	POUNDS
AHU	AIR-HANDLING UNIT	LF	LINEAR FEET
ALT	ALTERNATE	L	LENGTH
AMB	AMBIENT	LWT	LEAVING WATER TEMPERATURE
AMCA	AIR MOVEMENT AND CONTROL ASSOCIATION	LOC	LOCATION/LOCATED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	LP	LOW PRESSURE
APD	AIR PRESSURE DROP	LR	LONG RADIUS
APPROX	APPROXIMATE	MAN	MANUAL
AR	ACID RESISTANT	MAT	MIXED AIR TEMPERATURE
ARCH	ARCHITECTURAL	MAV	MANUAL AIR VENT
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	MAX	MAXIMUM
ATM	ATMOSPHERE	MBH	THOUSAND BTU PER HOUR
AUTO	AUTOMATIC	MECH	MECHANICAL
AVG	AVERAGE	MFR	MANUFACTURER
AWG	AMERICAN WIRE GAUGE	MH	MANHOLE
BAS	BUILDING AUTOMATION SYSTEM	MIN	MINIMUM, MINUTE
BDD	BACKDRAFT DAMPER	MPH	MILES PER HOUR
BHP	BRAKE HORSEPOWER, BOILER HORSEPOWER	MTD	MOUNTED
BLDG	BUILDING	N/A	NOT APPLICABLE
BLW	BELOW	NC	NOISE CRITERIA, NORMALLY CLOSED
BOD	BOTTOM OF DUCT	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
BOP	BOTTOM OF PIPE		NOT IN CONTRACT
BTU	BRITISH THERMAL UNIT	NO	NORMALLY OPEN, NUMBER
BTUH	BTU PER HOUR	NTS	NOT TO SCALE
C	COMMON, CONDENSATE	OD	OUTSIDE DIAMETER
C-C	CENTER TO CENTER	OFOI	OWNER FURNISHED, OWNER INSTALLED
CAP	CAPACITY, END CAP	OSA	OUTSIDE AIR
CCW	COUNTER-CLOCKWISE	OZ	OUNCE
CF	COOLING FAN, CIRCULATING FAN, CUBIC FOOT	PD	PRESSURE DROP OR DIFFERENCE
CFM	CUBIC FEET PER MINUTE	PG	PROPYLENE GLYCOL
CI	CAST IRON	PL	PLATE
CL	CENTER LINE	PLBG	PLUMBING
CLG	CEILING	POC	POINT OF CONNECTION
CMPR	COMPRESSOR	PNL	PANEL
COEF	COEFFICIENT	PH	PHASE (ELECTRICAL)
CONC	CONCRETE	PPM	PARTS PER MILLION
COND	CONDENSER	PSI	POUNDS PER SQUARE INCH
CTR	CENTER	PSIA	POUNDS PER SQUARE INCH - ABSOLUTE
CU	COPPER, CONDENSING UNIT	PSID	POUNDS PER SQUARE INCH - DIFFERENTIAL
CU IN	CUBIC INCH	PSIG	POUNDS PER SQUARE INCH - GAUGE
CV	VALVE FLOW COEFFICIENT	PRESS	PRESSURE
CW	CLOCKWISE	PRI	PRIMARY
DB	DECIBEL	R-407C,	REFRIGERANT (407C,410A,ETC.)
DBT	DRY-BULB TEMPERATURE	R-410A	
DDC	DIRECT DIGITAL CONTROL	R/A	RETURN AIR
DEG OR °	DEGREE	RAD	RADIANT OR RADIATION
DEG C	DEGREE CENTIGRADE	RCVR	RECEIVER
DEG F	DEGREE FAHRENHEIT	RECIRC	RECIRCULATE
DEMO	DEMOLITION	RED	REDUCER
DENS	DENSITY	REFRIG	REFRIGERATION
DGM	DIAGRAM	REV	REVOLUTIONS
DI	DUCTILE IRON	RF	RELIEF FAN OR RETURN FAN
DIA OR ø	DIAMETER	RH	RELATIVE HUMIDITY
DIFF	DIFFERENCE OR DELTA	RM	ROOM
DIP	DUCTILE IRON PIPE	RPM	REVOLUTIONS PER MINUTE
DN	DOWN	RPS	REVOLUTIONS PER SECOND
DO	DITTO	S/A	SUPPLY AIR
DTL	DETAIL	SAT	SATURATION
DWDI	DOUBLE WIDTH DOUBLE INLET	SCHD	SCHEDULE
DWG	DRAWING	SCFM	STANDARD CUBIC FEET PER MINUTE
(E)	EXISTING	SD	STORM DRAIN
EA	EACH	SEC	SECONDARY
E/A	EXHAUST AIR	SF	SQUARE FEET
EAT	ENTERING AIR TEMPERATURE	SH	SENSIBLE HEAT
EF	EXHAUST FAN	SHG	SENSIBLE HEAT GAIN
EFF	EFFICIENCY	SHR	SENSIBLE HEAT RATIO
EG	ETHYLENE GLYCOL, EXHAUST GRILLE	SHT	SHEET
ELEC	ELECTRICAL	SHWR	SHOWER
ELEV	ELEVATION	SP	STATIC PRESSURE
EMB	EMBEDMENT	SPD	STATIC PRESSURE DROP
ENT	ENTERING	SPEC	SPECIFICATION, SPECIFIED
EQIV FT	EQUIVALENT FEET	SPKLR	SPRINKLER
ESP	EXTERNAL STATIC PRESSURE	SR	SHORT RADIUS
EVAP	EVAPORATOR	SWSI	SINGLE WIDTH SINGLE INLET
EXP	EXPANSION	SQ	SQUARE
EWT	ENTERING WATER TEMPERATURE	SS	STAINLESS STEEL, SANITARY SEWER
°F	FAHRENHEIT	STD	STANDARD
FA	FACE AREA	SUCT	SUCTION
F-F	FACE TO FACE	TA	TRANSFER AIR
FD	FIRE DAMPER	TEMP	TEMPERATURE, TEMPORARY
FLEX	FLEXIBLE	THRU	THROUGH
FLR	FLOOR	TOD	TOP OF DUCT
FOB	FLAT ON BOTTOM	TONS	TONS OF REFRIGERATION
FOT	FLAT ON TOP	TOP	TOP OF PIPE
FP	FREEZING POINT	TYP	TYPICAL
FPM	FEET PER MINUTE	UG	UNDERGROUND
FPS	FEET PER SECOND	UNO	UNLESS NOTED OTHERWISE
FSD	FIRE-SMOKE DAMPER	UPC	UNIFORM PLUMBING CODE
FSDM	FIRE-SMOKE DAMPER, MODULATING	V	VOLTS OR VOLTAGE
FT	FOOT OR FEET	VAC	VACUUM
FV	FACE VELOCITY	VAC	VOLTS (ALTERNATING CURRENT)
GA	GAGE OR GAUGE	VAL	VALVE
GAL	GALLONS	VAP PR	VAPOR PRESSURE
GPD	GALLONS PER DAY	VAR	VARIABLE
GPH	GALLONS PER HOUR	VAV	VARIABLE AIR VOLUME
GPM	GALLONS PER MINUTE	VDC	VOLTS (DIRECT CURRENT)
GR	GRAINS	VEL	VELOCITY
GRD	GRILLES, REGISTERS, DIFFUSERS	VERT	VERTICAL
HD	HEAD	VFD	VARIABLE FREQUENCY DRIVE
HDPE	HIGH DENSITY POLYETHYLENE	VOL	VOLUME
HG	HEAT GAIN	VP	VELOCITY PRESSURE
HT	HEIGHT	VSD	VARIABLE SPEED DRIVE
HP	HORSEPOWER	VTR	VENT THROUGH ROOF
HR	HOUR(S)	W	WATT
HVAC	HEATING, VENTILATING & AIR-CONDITIONING	W/	WITH
HZ	FREQUENCY	W/O	WITHOUT
IAW	IN ACCORDANCE WITH	WB	WET BULB TEMPERATURE
ID	INSIDE DIAMETER	WC	WATER COLUMN
IE	INVERT ELEVATION	WH	WATT-HOUR
IBC	INTERNATIONAL BUILDING CODE	WP	WEATHER PROOF, WATER PROOF
IFC	INTERNATIONAL FIRE CODE	WPD	WATER PRESSURE DROP
IMC	INTERNATIONAL MECHANICAL CODE	WT	WEIGHT
IN	INCH	YD	YARD
		ZVB	ZONE VALVE BOX

GENERAL

SYMBOL	DESCRIPTION
1 / 2.	SHEET NOTE CONVENTION: REFERENCED SHEET NOTE GENERAL SHEET NOTE
	NORTH ARROW
1 / M0.1	DETAIL REFERENCE DETAIL NUMBER SHEET WHERE DETAIL APPEARS
A / M0.1	SECTION REFERENCE SECTION LETTER SHEET WHERE SECTION APPEARS
	POINT OF CONNECTION
P-#	PLUMBING FIXTURE NUMBER
ID / EQ#	EQUIPMENT SYMBOL EQUIPMENT DESIGNATION EQUIPMENT NUMBER
ID / CFM	AIR OUTLET SYMBOL AIR OUTLET DESIGNATION CFM
FT# / LF GPM	BASEBOARD FINTUBE DESIGNATION FINTUBE DESIGNATION GPM LINEAR FEET OF FINTUBE ELEMENT
XXX	AIR TERMINAL UNIT TAG
	LINE CONVENTION NEW OR REINSTALLED ITEM ITEM TO BE DEMOLISHED EXISTING ITEM TO REMAIN EXISTING ITEM TO BE RELOCATED

VENTILATION

SYMBOL	ABBR.	DESCRIPTION
		DOUBLE LINE DUCTWORK
		SINGLE LINE DUCTWORK
		FLEX DUCTWORK
		SLOT GRILLES/REGISTERS/DIFFUSERS
	S/A	GRILLES/REGISTERS/DIFFUSERS - SUPPLY AIR
	R/A	GRILLES/REGISTERS/DIFFUSERS - RETURN AIR
	E/A	GRILLES/REGISTERS/DIFFUSERS - EXHAUST AIR
OR		AIR FLOW ARROW
VD	VD	AIR VOLUME DAMPER
FD	FD	FIRE DAMPER
SD	SD	SMOKE DAMPER
FSD	FSD	FIRE-SMOKE DAMPER
	AL	ACOUSTICAL DUCT LINING
		DUCT INSULATION
12ø		DUCT: ROUND
20X12		DUCT: RECTANGULAR FIRST FIGURE SIDE SHOWN
20X12 F.O.		DUCT: FLAT OVAL FIRST FIGURE SIDE SHOWN
M	MOD	MOTORIZED OPERATED DAMPER
	OBD	OPPOSED BLADE DAMPER
	PBD	PARALLEL BLADE DAMPER
	BDD	BACK DRAFT DAMPER
		DAMPER

SUPPLY RETURN EXHAUST ROUND — DUCT TURNING UP OR TOWARD

SUPPLY RETURN EXHAUST ROUND — DUCT TURNING DOWN OR AWAY

PLUMBING

SYMBOL	ABBR.	DESCRIPTION
	CW	COLD WATER
	HW	HOT WATER
	HWC	HOT WATER CIRCULATION
	V	VENT
	TP	TRAP PRIMER
	FM	FORCE MAIN, WASTE WATER
	W	WASTE WATER
	SD	STORM DRAIN
	RL, ORL	RAINLEADER, OVERFLOW RAINLEADER
	HB	HOSE BIB
	WHA	WATER HAMMER ARRESTER
A	PDI	PLUMBING AND DRAINAGE INSTITUTE WATER HAMMER ARRESTER SIZE A, B, C, D, OR E
TP		AUTOMATIC TRAP PRIMER VALVE
	FCO, YCO	FLOOR CLEANOUT, YARD CLEANOUT
	WCO	WALL CLEANOUT
	FD, FS	FLOOR DRAIN, FLOOR SINK
	RD, ORD	ROOF DRAIN, OVERFLOW ROOF DRAIN

PIPING

SYMBOL	ABBR.	DESCRIPTION
	HWS	HEATING WATER SUPPLY
	HWR	HEATING WATER RETURN
	GHS	HEATING GLYCOL SUPPLY
	GHR	HEATING GLYCOL RETURN
	HRS	HEAT RECOVERY SUPPLY
	HRR	HEAT RECOVERY RETURN
	RHS	RADIANT HEATING SUPPLY
	RHR	RADIANT HEATING RETURN
	RFT	RADIANT FLOOR TUBING
	CWS	COOLING WATER SUPPLY
	CWR	COOLING WATER RETURN
	GCS	GLYCOL COOLING SUPPLY
	GCR	GLYCOL COOLING RETURN
	WWS	WELL WATER SUPPLY
	WWR	WELL WATER RETURN
	CDS	CONDENSER WATER SUPPLY
	CDR	CONDENSER WATER RETURN
ENCLOSURE / FINTUBE ELEMENT	FT	BASEBOARD FINTUBE RADIATION
	UH	UNIT HEATER
OR	CUH	CABINET UNIT HEATER, HORIZONTAL OR VERTICAL

CONTROLS

SYMBOL	ABBR.	DESCRIPTION
T	TSTAT	THERMOSTAT
H		HUMIDISTAT
		LOW VOLTAGE CONTROL
CS	CS	CURRENT SWITCH
CT	CT	CURRENT TRANSMITTER
FS	FS	FLOW SWITCH
TT	TT	TEMPERATURE TRANSMITTER
TIT	TIT	TEMPERATURE INDICATOR TRANSMITTER
PIT	PIT	PRESSURE INDICATOR TRANSMITTER
DPS	DPS	DIFFERENTIAL PRESSURE SWITCH
DPI	DPI	DIFFERENTIAL PRESSURE INDICATOR
PI / OR	PI	PRESSURE INDICATOR, GAUGE
TI / OR	TI	TEMPERATURE INDICATOR, THERMOMETER
FI	FI	FLOW INDICATOR

GENERAL PIPING

SYMBOL	ABBR.	DESCRIPTION
		BALL VALVE
	GV	GATE VALVE
		GLOBE VALVE
	BV	BUTTERFLY VALVE
	TDV	TRIPLE DUTY VALVE
	CV	CHECK VALVE
		BACKFLOW PREVENTER ASSEMBLY
	PRV	PRESSURE REDUCING VALVE
	PRV	PRESSURE REGULATOR VALVE
		PLUG VALVE
S	SOV	SOLENOID OPERATED VALVE
M OR M	MOV	2 WAY MOTOR OPERATED VALVE
M OR M	MOV	3 WAY MOTOR OPERATED VALVE
		2 WAY PNEUMATIC OPERATED VALVE
		3 WAY PNEUMATIC OPERATED VALVE
		BALANCING VALVE
	FCV	AUTOMATIC FLOW CONTROL VALVE
	SV	SAFETY VALVE, PRESSURE RELIEF VALVE
	VB	VACUUM BREAK
	AAV	AIR VENT, AUTO WITH ISOLATION VALVE
	MAV	AIR VENT, MANUAL
	PTTP	PRESSURE & TEMP TEST PLUG
		STRAINER W/ BLOWDOWN HOSE FITTING
		EQUIPMENT OR PIPE DRAIN VALVE W/HOSE FITTING
		EQUIPMENT OR PIPE DRAIN PLUG W/HOSE FITTING
		REDUCER (CONCENTRIC)
		REDUCER (ECCENTRIC)
		FLOW ARROW
		ANCHOR
		PIPE GUIDE
		PIPE SLEEVE
		PIPE UNION
		PIPE FLANGE
		FLEXIBLE CONNECTION
M		METER
		LINE BREAK
		END CAP
		PIPE UP / TEE UP
		PIPE DOWN (ELBOW)
		PIPE DOWN (TEE)

MEDICAL GAS PIPING

SYMBOL	ABBR.	DESCRIPTION
	CA	COMPRESSED AIR
	MA	MEDICAL AIR
	MV	MEDICAL VACUUM
	O2	MEDICAL OXYGEN
	N2	MEDICAL NITROGEN
	WAGD	WASTE ANESTHETIC GAS DISPOSAL, EVAC
	N2O	MEDICAL NITROUS OXIDE
	CO2	MEDICAL CARBON DIOXIDE
		MEDICAL LIQUID OXYGEN
	LA	LAB AIR
	LVAC	LAB VACUUM
	LO2	LAB OXYGEN
	LN2	LAB NITROGEN

NOTE: THIS IS A STANDARD LEGEND, SOME OF THE SYMBOLS SHOWN ON LEGEND ARE NOT NECESSARILY ON THE DRAWINGS.

DRAWING INDEX

M0.1A	LEGEND
M0.4	SPECIFICATIONS
M0.5	SCHEDULES
M1.0	OVERALL DEMOLITION PLAN - MECHANICAL
M1.4	DEMOLITION UNDERFLOOR PLAN - PLUMBING
M1.5	DEMOLITION PLAN - PIPING
M1.6	DEMOLITION PLAN - HVAC
M2.0A	OVERALL PLAN - MECHANICAL
M2.4	UNDERFLOOR PLAN - PLUMBING
M2.5	FLOOR PLAN - PIPING
M2.6	FLOOR PLAN - HVAC
M3.3	DETAILS AND DIAGRAMS

GENERAL NOTES

1. DRAWING INFORMATION IS BASED UPON AVAILABLE OWNER DRAWINGS AND LIMITED FIELD VERIFICATION. DRAWING INFORMATION DOES NOT REPRESENT AS-BUILT CONDITIONS. FIELD VERIFY ALL INFORMATION INCLUDING PIPES, DUCTS, AND EQUIPMENT LOCATIONS, ROUTING, CONTROLS, AND APPURTENANCES PRIOR TO START OF WORK.
2. FIELD COORDINATE THE EXACT LOCATIONS OF EQUIPMENT, PIPING, DUCT WORK, AND CONTROLS WITH EXISTING AND NEW WORK, INCLUDING RATED ASSEMBLIES, CONSTRUCTION PHASING AND STRUCTURAL REQUIREMENTS.
3. REMOVE ABANDONED OR INDICATED FOR DEMOLITION PIPES, DUCTS, EQUIPMENT AND CONTROLS. REMOVE BRACKETS, STEMS, HANGERS, CONDUIT, CONDUCTORS, DEVICES AND OTHER ACCESSORIES.
4. PLUG, PATCH, REPAIR HOLES AND SURFACES. REFINISH SURFACE AND REPAIR ASSEMBLIES TO MATCH EXISTING FIRE, TEMPERATURE, AND/OR SMOKE RATINGS. REPAIR ALL DAMAGED SURFACES, INSULATION, CEILING TILES AND FIREPROOFING. SEAL ROOM PENETRATIONS TO MAINTAIN PRESSURE RELATIONSHIPS TO ADJACENT SPACES.
5. OBTAIN FROM FACILITY MAINTENANCE EQUIPMENT TAGS AND BAR CODES; INCORPORATE INFORMATION ON CONTRACTOR AS-BUILTS, REDLINES AND CONTROLS WORK.
6. INTERIM LIFE SAFETY MEASURES, ILSM. COORDINATE WITH CLINIC TO DETERMINE IF THERE ARE PRE-ESTABLISHED LIFE SAFETY MEASURES APPROPRIATE FOR THE PLANNED PROJECT. APPROVED PROJECT INTERIM LIFE SAFETY MEASURES SHALL BE FOLLOWED, MAINTAINED ON-SITE, AND PART OF THE PROJECT'S PERMANENT RECORD.
7. CONTRACTOR SHALL OBTAIN AND REVIEW EQUIPMENT VENDORS PREINSTALLATION/INSTALLATION DRAWINGS AND MANUALS BEFORE STARTING WORK. CONFLICTS BETWEEN VENDOR REQUIREMENTS AND CONTRACT DOCUMENTS SHALL BE RESOLVED WITH OWNER BEFORE STARTING WORK. CONFIRM VENDOR FURNISHED EQUIPMENT AND MATERIALS FOR CONTRACTOR INSTALLATION.
8. SHOP DRAWINGS AND PHASING PLANS SHALL BE REVIEWED BY CONTRACTOR WITH SUB-CONTRACTORS AND SIGNED-OFF AS ACCEPTABLE BEFORE PROCEEDING WITH WORK. SUBMIT COPIES OF SIGNED-OFF DRAWINGS TO OWNER.
9. COORDINATE PHASING REQUIREMENTS AND SERVICE DISRUPTIONS WITH THE OWNER AND OBTAIN SPECIFIC AGREEMENT OF THE TIMES AND DURATIONS OF SYSTEM DISRUPTIONS BEFORE STARTING WORK. CLINIC WILL BE OPERATIONAL DURING CONSTRUCTION.
10. COORDINATE WITH CLINIC'S INFECTION CONTROL FOR CONSTRUCTION AND RENOVATION REQUIREMENTS AND ACCESS PERMITS. WORK IN AND AROUND CLINICAL AREAS SHALL BE CONDUCTED SUCH THAT A DUST-FREE ENVIRONMENT IS MAINTAINED IN ADJACENT CLINICAL AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ISOLATION AND ALL CONSTRUCTION ACTIVITIES TO ENSURE THAT AIR FLOW FROM THE CONSTRUCTION WORKSPACES TO CLINICAL AREAS IS PREVENTED.
11. ARRANGE WORK TO PROVIDE WORKABLE ACCESS TO SERVICEABLE OR OPERABLE EQUIPMENT. LOCATION OF VALVES, TRAPS, STRAINERS, MOTORS, DAMPER OPERATORS, ETC., SHALL BE EASILY ACCESSIBLE BY A PERSON STANDING ON THE FLOOR. ITEMS NOT IN THE OPEN SHALL BE READILY ACCESSIBLE THROUGH ACCESS OPENINGS IN THE BUILDING CONSTRUCTION. PROVIDE U.L. LISTED ACCESS PANELS TO MATCH FIRE RATING OF ASSEMBLIES.

STATE OF ALASKA 49TH — Mark D. Lundgren — 4/2/2018 — ME-8055 — REGISTERED PROFESSIONAL ENGINEER

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1" ACTUAL

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

SEARHC ALICIA ROBERTS MEDICAL CLINIC

NWA 1644

KLAWOCK, ALASKA

SHEET TITLE: LEGEND

CHECKED MDL

DRAWN KMS/MPL

RFP-01 ARMC PHASE 2 SCOPE ADDITION

SHEET # M0.1A

PLOT DATE 4/2/2018

ISSUE DATE 04/3/2018

FILE NAME: x:\17304 klowockiln\Dwgs\Mdwg\sheet files\17304 - M0.1A.dwg
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SPECIFICATIONS

200000 – MECHANICAL GENERAL REQUIREMENTS

THESE DRAWINGS DESCRIBE AND PROVIDE FOR THE FURNISHING, INSTALLING, TESTING AND PLACING IN SATISFACTORY AND FULLY OPERATIONAL CONDITION EQUIPMENT, MATERIALS, DEVICES, AND NECESSARY APPURTENANCES TO PROVIDE FOR A COMPLETE MECHANICAL SYSTEM, TOGETHER WITH SUCH OTHER MISCELLANEOUS INSTALLATIONS AND EQUIPMENT.

WORK SHALL INCLUDE MATERIALS, APPLIANCES, AND APPARATUS NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT WHICH ARE NECESSARY TO MAKE A COMPLETE, OPERATIONAL INSTALLATION OF MECHANICAL SYSTEMS SHOWN ON THE DRAWINGS OR DESCRIBED.

DRAWING INFORMATION IS BASED UPON AVAILABLE OWNER DRAWINGS AND LIMITED FIELD VERIFICATION. DRAWING INFORMATION DOES NOT REPRESENT AS–BUILT CONDITIONS. FIELD VERIFY INFORMATION INCLUDING PIPES, DUCTS, AND EQUIPMENT LOCATIONS, ROUTING, CONTROLS, AND APPURTENANCES PRIOR TO START OF WORK.

PORTIONS OF THE DRAWINGS ARE PARTLY DIAGRAMMATIC AND DO NOT SHOW EXACT LOCATIONS OR OFFSETS AND FITTINGS REQUIRED TO INSTALL THE WORK. PROVIDE FITTINGS, OFFSETS, AND ACCESSORIES AS REQUIRED TO INSTALL THE WORK. PROVIDE SYSTEMS COMPLETE AND IN PROPER OPERATING CONDITION. WHERE THE WORK OF SEVERAL CRAFTS ARE INVOLVED, COORDINATE RELATED WORK TO PROVIDE EACH SYSTEM IN COMPLETE AND PROPER OPERATING ORDER.

OBTAIN AND PAY FOR LICENSES, PERMITS, AND INSPECTIONS REQUIRED BY LAWS, ORDINANCES, AND RULES GOVERNING THE WORK. ARRANGE FOR INSPECTION OF WORK BY INSPECTORS.

AS MINIMUM REQUIREMENT, COMPLY WITH APPLICABLE LOCAL AND STATE CODES, ORDINANCES, AND REGULATIONS INCLUDING 2012–IBC, 2012–IMC, 2012–UPC, 2012–IEBC, 2012–IFC, AND 2014–NEC; AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION (AHJ), WHICH IS THE STATE OF ALASKA, AND MAY BE EXCEEDED BY PROJECT DOCUMENTS.

PROVIDE SEISMIC DESIGN, ANCHORS, AND RESTRAINT DEVICES TO RESIST LOADS PER IBC, CHAPTER 16 AND ASCE 7–10. COORDINATE WITH STRUCTURAL REQUIREMENTS TO ENSURE ATTACHMENT POINTS CAN ACCOMMODATE FORCES. CONTRACTOR'S SEISMIC DESIGN SHALL BE A DEFERRED SUBMITTAL AND SUBMITTED TO AHJ. COORDINATE WITH SPECIAL INSPECTIONS PER IBC CHAPTER 17 AND AHJ REQUIREMENTS.

EXCEPT IN CASES WHERE STATUTES GOVERN, FOLLOW THE RECOMMENDED PRACTICES OF ASME, SMACNA, ASHRAE, NFPA, AIA, OSHA, AND THE FACILITIES GUIDELINES INSTITUTE (FGI) 2014 EDITION "GUIDELINES FOR DESIGN AND CONSTRUCTION OF HOSPITAL AND HEALTH CARE FACILITIES" AS THEY APPLY TO THIS PROJECT, 2012 NFPA 99 HEALTH CARE FACILITIES CODE, AND 2012 NFPA 101 LIFE SAFETY CODE. THESE ARE MINIMUM REQUIREMENTS AND MAY BE EXCEEDED BY PROJECT DOCUMENTS.

FIXTURES, FITTINGS, VALVES, EQUIPMENT, ASSEMBLIES, AND DEVICES SHALL BE LISTED FOR THE INTENDED SERVICE BY IAPMO, FM, UL, OR OTHER NRTL. FURNISH AND INSTALL APPLIANCES, EQUIPMENT, MATERIALS, AND APPARATUS IN ACCORDANCE WITH APPLICABLE CODES, LISTINGS, AND MANUFACTURER'S INSTRUCTIONS.

UNLESS DIRECTED OTHERWISE, PRODUCTS SHALL BE NEW, UNUSED, AND UNDAMAGED, OF STANDARD MANUFACTURE, OF LATEST DESIGN AND QUALITY, AND SUITABLE FOR THE INSTALLATION. EQUIPMENT AND MATERIALS SHALL BE ASBESTOS AND LEAD FREE. ITEMS EXPOSED TO EXTERIOR, WET, OR CORROSIVE ENVIRONMENTS SHALL BE SELECTED FOR SERVICE CONDITIONS AND BE CORROSIVE RESISTANT.

ARRANGE WORK TO PROVIDE WORKABLE ACCESS TO SERVICEABLE OR OPERABLE EQUIPMENT. LOCATION OF VALVES, TRAPS, STRAINERS, MOTORS, DAMPER OPERATORS, ETC., SHALL BE EASILY ACCESSIBLE BY A PERSON STANDING ON THE FLOOR. ITEMS NOT IN THE OPEN SHALL BE READILY ACCESSIBLE THROUGH ACCESS OPENINGS IN THE BUILDING CONSTRUCTION. PROVIDE UL LISTED ACCESS PANELS TO MATCH FIRE RATING OF ASSEMBLIES. NEW WORK TO ALLOW FOR FLUSHING, CLEANING, AND TESTING INDEPENDENT OF EXISTING SYSTEMS. PIPING SYSTEMS TO BE INSTALLED FOR SECTION ISOLATION, LOW POINT DRAINAGE, AND HIGH POINT AIR REMOVAL.

FIELD VERIFY PIPE, DUCTS, AND EQUIPMENT: SIZE, LOCATION, ROUTING, TERMINAL UNITS, CONTROLS, AND APPURTENANCES. FIELD COORDINATE EXACT LOCATIONS OF EQUIPMENT, DUCTS, PIPES, AND CONTROLS WITH EXISTING AND NEW WORK; INCLUDING CONSTRUCTION PHASING, STRUCTURAL ELEMENTS, AND ARCHITECTURAL REQUIREMENTS.

PENETRATIONS THROUGH BUILDING EXTERIOR WALLS, FLOORS, AND ROOFS SHALL BE WATERTIGHT AND WEATHER–TIGHT. WALL, FLOOR, AND CEILING PENETRATIONS SHALL BE SLEEVED. PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE STI SPECSEAL UL LISTED FIRE STOP ASSEMBLIES. PENETRATIONS THROUGH SMOKE BARRIERS SHALL BE SMOKE TIGHT. PROVIDE ACOUSTICAL SEALANT ON BOTH SIDES FOR OTHER PENETRATIONS. AREAS REQUIRING PRESSURE CONTROL SHALL BE FIELD VERIFIED AND RESEALED TO MAINTAIN PRESSURE RELATIONSHIPS.

REMOVE ABANDONED OR INDICATED FOR DEMOLITION PIPES, DUCTS, MED GAS LINES, EQUIPMENT, AND CONTROLS. CUT CONCEALED PIPES AND DUCTS FLUSH WITH WALLS AND FLOORS. REMOVE CONDUCTORS, CONDUIT, BRACKETS, STEMS, HANGERS, AND OTHER ACCESSORIES. REMOVE ABANDONED CONTROLS AND ASSOCIATED WIRING & CONDUIT TO SOURCE OF SIGNAL AND SUPPLY. TERMINATIONS SHALL BE CAPPED AND IDENTIFIED.

PLUG, PATCH, AND REPAIR PENETRATIONS AND SURFACES. REFINISH SURFACES AND ASSEMBLY RATINGS TO MATCH EXISTING. REPAIR OR REPLACE DAMAGED SURFACES, CEILING TILES, INSULATION, AND FIREPROOFING. SEAL ROOM PENETRATIONS TO MAINTAIN ROOM PRESSURE RELATIONSHIPS TO ADJACENT SPACES.

PROVIDE SUBMITTALS FOR REVIEW AND OBTAIN OWNER'S APPROVAL OF PRODUCTS PRIOR TO ORDERING OR INSTALLING ANY PART OF SYSTEM, DEFERRED SUBMITTALS SHALL BE APPROVED BY AHJ. COLORS SHALL BE APPROVED BY THE ARCHITECT.

SUBMITTALS, INCLUDING O & M MANUALS, SHALL BE SUBMITTED IN 3–RING BINDER, REFERENCED TO CONTRACT DOCUMENTS, REVIEWED AND STAMPED BY CONTRACTOR, CLEARLY AND PROPERLY IDENTIFIED AND SUBSTITUTIONS SHALL BE ANNOTATED TO DEMONSTRATE THAT THEY MEET OR EXCEED SPECIFIED ITEMS. PROVIDE ELECTRONIC, PDF, FILES WITH BOOKMARKS SEPARATING EQUIPMENT, SYSTEMS, AND SHOP DRAWINGS WITH EVERY SUBMITTAL.

FURNISH INSTALLATION AND OPERATING AND MAINTENANCE MANUALS FOR EQUIPMENT. PROVIDE INFORMATION NEEDED TO OPERATE AND MAINTAIN THE EQUIPMENT INCLUDING CHANGES TO THE CONTROL SYSTEM. IN ADDITION TO ELECTRONIC SUBMITTAL BIND FINAL MANUALS IN HARD BACKED, 3–RING LOOSE–LEAF BINDER. OBTAIN FACILITY'S EQUIPMENT TAG NUMBERS AND INCORPORATE INTO MANUALS AND AS–BUILTS. MANUALS SHALL INCLUDE MAINTENANCE INSTRUCTIONS, MANUFACTURER'S BROCHURES, CUT SHEETS, SHOP DRAWINGS, CONTROLS, FIRE PROTECTION, EQUIPMENT DIRECTORIES, AND FINAL BALANCE REPORTS.

PROVIDE DETAILED SHOP DRAWINGS FOR WORK BASED ON PRODUCTS PROPOSED TO BE USED ON THE PROJECT. DRAWINGS SHALL BE PREPARED ON REPRODUCIBLE SHEETS OR AUTOCAD. DRAWINGS SHALL BE PREPARED AT A MINIMUM SCALE OF 1/4" = 1'–0". PROVIDE SECTIONS AND ELEVATIONS TO SHOW THAT MECHANICAL WORK WILL FIT IN THE SPACE ALLOCATED AND OF SUFFICIENT DETAIL TO SHOW CONFORMANCE WITH THE INTENT OF THE CONTRACT DOCUMENTS.

CONTINUALLY RECORD THE ACTUAL MECHANICAL SYSTEM(S) INSTALLATION ON A FULL SIZE SET OF PRINTS KEPT READILY AVAILABLE AT THE PROJECT DURING CONSTRUCTION. AT THE END OF THE PROJECT SUBMIT COMPLETED RECORD DRAWINGS SHOWING AS–BUILT CONDITIONS FOR NEW AND EXISTING MECHANICAL SYSTEMS IN THE PROJECT WORK AREA.

COORDINATE SERVICE DISRUPTION PERIODS WITH THE OWNER AND OBTAIN SPECIFIC AGREEMENT, BY THE OWNER, OF TIMES AND DURATION OF SYSTEM SHUT DOWN PERIODS, BEFORE STARTING SYSTEM WORK.

COORDINATE WITH FACILITY'S INFECTION CONTROL FOR CONSTRUCTION AND RENOVATION REQUIREMENTS AND ACCESS PERMITS. WORK IN AND AROUND THE OWNER'S CLINICAL AREAS SHALL BE CONDUCTED SUCH THAT A DUST–FREE ENVIRONMENT IS MAINTAINED IN ADJACENT CLINICAL AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ISOLATION AND CONSTRUCTION ACTIVITIES TO ENSURE THAT AIR FLOW FROM THE CONSTRUCTION WORKSPACE TO CLINICAL AREAS IS PREVENTED.

PROVIDE FILTERS OVER AIR INTAKES, EXHAUSTS, AND TRANSFER AIR OPENINGS. PROTECT OPEN DUCTS AND PIPES FROM DIRT AND DUST. REPLACE HVAC FILTERS AFTER WORK AND BEFORE STARTING VENTILATION SYSTEMS FOR TESTING, ADJUSTING, AND BALANCING.

ITEMS REQUIRING RELOCATION OR TEMPORARILY SUPPORTED DURING DEMOLITION OR NEW WORK SHALL BE MAINTAINED AND RE–INSTALLED TO MAINTAIN THEIR LISTING, SERVICEABILITY, AND FUNCTION. VERIFY THAT EQUIPMENT AND SYSTEMS ARE FULLY OPERATIONAL UPON COMPLETION OF WORK.

200500 – MECHANICAL BASIC MATERIALS AND METHODS

IDENTIFICATION:
PROVIDE MECHANICAL IDENTIFICATION CONSISTING OF LABELS, TAGS, AND FLOW ARROWS FOR DUCTS, PIPES, VALVES, AND EQUIPMENT INSTALLED UNDER THIS CONTRACT AND EXISTING ITEMS, INCLUDING PNEUMATIC MESSENGER TUBE, TO REMAIN THAT LACK IDENTIFICATION. IN NON–PUBLIC AREAS PLACE ID AT WALLS, FLOORS, DIRECTION CHANGE, AND 20' INTERVALS ALONG STRAIGHT RUNS.

HANGERS AND SUPPORTS:
PROVIDE PIPING SUPPORTS ACCORDING TO MSS SP58–2009 (MANUFACTURERS STANDARDIZATION SOCIETY) – PIPE HANGERS AND SUPPORTS – MATERIALS, DESIGN, MANUFACTURE, selection, Application, and installation. ADDITIONAL CRITERIA SHALL BE PER APPLICABLE CODES AND ASME B31.9 BUILDING SERVICES PIPING. SUPPORT, BRACE, AND ANCHOR PIPES, EQUIPMENT, AND DEVICES TO BUILDING STRUCTURE TO RESIST GRAVITY, OPERATIONAL, AND VIBRATION FORCES; COORDINATE WITH SEISMIC RESTRAINTS.

INSULATION:
INSULATE COOLED SUPPLY AIR DUCTWORK UPSTREAM OF VAV BOX, OUTSIDE AIR DUCTWORK, HYDRONIC, REFRIGERATION, CHILLED WATER, DOMESTIC COLD WATER, DOMESTIC HOT WATER AND HOT WATER CIRCULATION PIPING, RAINLEADERS AND VTR. STEAM AND CONDENSATE LINES, EQUIPMENT, VALVES, AND FITTINGS SHALL BE FIBERGLASS INSULATED, EXCEPT TRAP ASSEMBLIES. INSULATION FOR COLD SURFACES AND ITEMS WHERE CONDENSATION MAY FORM SHALL BE VAPOR TIGHT.

INSULATION PRODUCTS SHALL MEET OR BE LOWER THAN FLAME SPREAD 25, FUEL CONTRIBUTED 50, AND SMOKE DEVELOPED 50.

PIPE INSULATION SHALL BE MINIMUM 1" THICK PREFORMED FIBERGLASS TYPE WITH ALL SERVICE JACKET, 4LBS/CF DENSITY, MINUS 20°F TO 850°F OPERATING TEMPERATURE RANGE, THERMAL CONDUCTIVITY K=0.23 AT 75°F MEAN TEMPERATURE AND HAVING A FACTORY APPLIED FLAME RETARDANT VAPOR BARRIER JACKET WITH PERMEABILITY RATING = 0.02 PERMS.

FOR HYDRONIC HEATING AND COOLING SYSTEMS, PIPING AND APPURTENANCES INSULATION THICKNESS SHALL BE 1" FOR 1" AND SMALLER PIPES AND 2" FOR LARGER LINES. VALVES AND FITTINGS SHALL BE INSULATED WITH FORMED BLANKETS THE SAME THERMAL RESISTANCE AS PIPES.

INSULATE SUPPLY DUCTWORK WITH 1.5" THICK AND OUTSIDE AIR WITH 2" THICK GLASS FIBER DUCT WRAP FOR VAPOR TIGHT INSTALLATION. FLEXIBLE GLASS FIBER BLANKET, FSK JACKET, 1 LBS/CF DENSITY, K=0.27 AT 75°F. KNAUF "DUCT WRAP" OR CERTAINTEED "STANDARD DUCT WRAP".

DUCT INSULATION SEAMS SHALL BE STAPLED AND CONTINUOUSLY TAPED WITH 3" WIDE FSK OR ASJ TAPE TO MATCH THE INSULATION JACKET. INSULATION JACKET PENETRATIONS SHALL BE TAPED OVER.

COORDINATE INSULATION AT FIRE RATED WALL AND FLOOR PENETRATIONS TO COMPLY WITH SELECTED, UL LISTED, FIRESTOPPING SYSTEMS.

INSULATION SHALL PASS CONTINUOUSLY THROUGH NON–FIRE RATED WALLS AND FLOORS.

200800 – MECHANICAL COMMISSIONING

REFER TO GENERAL COMMISSIONNING SPECIFICATION SECTION 019113 IN THE PROJECT MANUAL. CONTRACTOR'S COMMISSIONING REPRESENTATIVE (CCR) SHALL OVERSEE THE COMMISSIONING PROCESS IN ACCORDANCE WITH THE PROJECT MANUAL.

PROVIDE PERSONNEL, FIELD AND TESTING EQUIPMENT, AND ADDITIONAL SERVICES FOR COMMISSIONING OF MECHANICAL SYSTEMS. ITEMS TO BE COMMISSIONED INCLUDE VENTILATION SYSTEMS IMPACTED BY THIS PROJECT, AIR CONDITIONING SYSTEMS, AND DENTAL VACUUM AND AIR EQUIPMENT. SCHEDULING OF COMMISSIONING ACTIVITIES SHALL BE COORDINATED WITH OWNER AND ENGINEER THROUGH THE CCR. COMMISSIONING OF EXISTING SYSTEMS AFFECTED BY THIS PROJECT IS INCLUDED.

TAB AGENCY SHALL PROVIDE OFFICE AND FIELD SERVICES FOR COMMISSIONING ACTIVITIES, WHICH INCLUDE VERIFICATION OF TAB INFORMATION, TESTING, ADJUSTING, AND SEQUENCING OF EQUIPMENT, AND REVISIONS TO OPERATING CONDITIONS. TAB AGENCY SHALL RECORD CHANGES AND SUBMIT POST COMMISSIONING TAB REPORT.

PROVIDE OFFICE AND FIELD SERVICES FOR COMMISSIONING ACTIVITIES, WHICH INCLUDE BUT NOT LIMITED TO THE FOLLOWING: 1) VERIFICATION OF EQUIPMENT AND SYSTEMS INSTALL PER CONTRACT DOCUMENTS AND MANUFACTURER'S RECOMMENDATIONS, 2) CLEANING, TESTING, AND STARTUP REPORTS, 3) AHJ AND SPECIAL INSPECTION REPORTS, 4) OPERATIONS VERIFICATION AND TRENDING OF SYSTEMS PER APPROVED CONTROL SYSTEM SUBMITTALS, 5) TESTING, ADJUSTING, AND SEQUENCING OF EQUIPMENT, 6) RED LINES OF INSTALLATION AND ANNOTATIONS OF OPERATING CONDITIONS.

A LIST OF CHANGES SHALL BE PRODUCED AND UPON SUCCESSFUL DEMONSTRATION DURING A RE–TEST THE SYSTEM WILL BE ACCEPTED AND PLACED UNDER WARRANTY. UPDATE PROGRAMS, DISPLAYS, DRAWINGS, AND RELATED ITEMS FOR INCORPORATION INTO FINAL O&M'S.

211000 – FIRE SUPPRESSION SYSTEMS

WORK INCLUDES PERFORMANCE REQUIREMENTS TO MOVE SPRINKLER HEADS AND MODIFY PIPING AS NEEDED, AS WELL AS PROVIDE THE ASSOCIATED DESIGN SERVICES TO SUPPORT THIS REMODEL PROJECT. REVIEW THE CONTRACT DOCUMENTS AND ANY OWNER FURNISHED EQUIPMENT TO DETERMINE HOW PORTIONS OF THE EXISTING FIRE PROTECTION SYSTEM WILL BE AFFECTED BY THE TEMPORARY OR PERMANENT IMPLEMENTATION OF ANY PORTION OF THIS WORK. PROVIDE OWNER AND ENGINEER LIST OF SPECIFIC FIRE PROTECTION AND DETECTION SYSTEMS AFFECTED BEFORE PROCEEDING WITH DESIGN OR DEMOLITION.

PROVIDE SERVICES OF AN OWNER APPROVED AND QUALIFIED FIRE PROTECTION CONTRACTOR TO MODIFY AND ADD SPRINKLER HEADS TO THE EXISTING SPRINKLER SYSTEM FOR COMPLETE COVERAGE UNDER THIS CONTRACT. MATERIALS, EQUIPMENT, SPRINKLER HEADS, PIPING, AND DESIGN CRITERIA SHALL MEET AHJ, AND OWNER REQUIREMENTS.

EXISTING FIRE PROTECTION SPRINKLER SYSTEM SHALL REMAIN ACTIVE UNTIL THE NEW FIRE PROTECTION SYSTEM IS APPROVED TO PROVIDE PROTECTION. EXISTING SYSTEM SHALL BE MODIFIED TO PROVIDE PROTECTION, REVIEWED BY ENGINEER, AND APPROVED BY OWNER AND AHJ. ALTERNATE METHODS OF PROVIDING FIRE WATCH OR OTHER AHJ APPROVED PROTECTION SHALL BE REVIEWED BY ENGINEER AND APPROVED BY THE OWNER.

SYSTEM PIPING OTHER THAN STEEL SCHEDULE 40 IS UTILIZED SHALL HAVE A CORROSION RESISTANCE RATIO (CRR) EQUAL TO OR GREATER THAN 1.0. SUBMIT A STATEMENT THAT THE PIPING COMPLIES WITH NFPA 13 STANDARDS. INCLUDE THIS CRR DATA IN PRODUCT SUBMITTAL.

MODIFICATIONS TO EXISTING DRY PIPE SYSTEMS SHALL BE COMPATIBLE WITH EXISTING PIPE AND FITTINGS, NON–WELDED.

IN ADDITION TO NFPA 13 CRITERIA PROVIDE SEISMIC CLEARANCE FOR SPRINKLER PIPING AND HEADS PER IBC AND ASCE–07–10. FLEXIBLE BRAIDED SS HOSE ASSEMBLIES FOR SPRINKLER HEADS UNLESS OTHERWISE APPROVED, VICTAULIC VICFLEX SERIES.

PROVIDE SPRINKLER HEADS IN AREAS WHERE CEILINGS WILL BE REPLACED, UPGRADED, OR MODIFIED. SPRINKLER HEADS SHALL BE THE SAME TYPE AS USED IN EACH AREA. FINISH, ESCUTCHEON, AND APPEARANCE TO MATCH EXISTING.

INSTALL LOW POINT DRAINS PER NFPA 13 WITH SIGNAGE AND RISER MAINS DRAINS AND STANDPIPE DRAINS SHALL HAVE HOSE BIBB CONNECTIONS FOR MAINTENANCE DRAINAGE. DISCHARGE TEST PIES, BACKFLOW SYSTEM DEMAND FLOW TESTS AND SYSTEM MAIN DRAIN TO SAFE LOCATION OUTSIDE, COORDINATED WITH OWNER.

WORK SHALL BE SCHEDULED TO MINIMIZE DISRUPTION OF FIRE SERVICE, COORDINATE WITH OWNER FOR SHUT DOWN AND MAINTAIN A FIRE WATCH WHEN SYSTEM IS INOPERABLE.

DETERMINATION OF EXISTING BUILDING SPRINKLER COVERAGE AND CONDITIONS, INCLUDING WATER PRESSURE AND FLOW ARE THE RESPONSIBILITY OF THE CONTRACTOR. FIELD CHECK EXISTING PIPING, PROVIDE FLOW TEST, MAKE CALCULATIONS, AND PROVIDE ANY OTHER SERVICES TO PROPERLY DESIGN OR MODIFY THE SYSTEMS, AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION AND FOR THE WORK.

SUBMIT FIRE PROTECTION DRAWINGS, CALCULATIONS, AND CUT SHEETS TO ENGINEER, OWNER'S INSURANCE AGENCY, AND AUTHORITY HAVING JURISDICTION (AHJ). OBTAIN APPROVAL FROM THE OWNER AND AHJ BEFORE STARTING INSTALLATION OF THE SYSTEM. SUBMIT CORRESPONDENCE WITH THE INSURANCE COMPANY AND THE AHJ TO THE OWNER AND ENGINEER. DRAWINGS AND CALCULATIONS SHALL INCLUDE THE NICET CERTIFICATION AND STATE OF ALASKA PERMIT IIC NUMBERS AND SIGNATURE OR ALASKA STAMP OF A LICENSED PROFESSIONAL ENGINEER AND THE FIRE PROTECTION CONTRACTOR'S ALASKA SPECIALTY LICENSE NUMBER.

PROVIDE RISER PLATES AS REQUIRED BY NFPA.

OBTAIN APPROVAL OF THE OWNER PRIOR TO ORDERING, FABRICATING OR INSTALLING ANY PART OF THE SYSTEM. HEAD LOCATIONS ARE SUBJECT TO THIS REVIEW AND APPROVAL.

APPROVED FULL SIZE AS–BUILT DRAWINGS, ELECTRONIC COPY OF AS–BUILTS IN PDF AND DWG FORMATS, AND O&M MANUAL SHALL BE SUBMITTED.

221100 – PLUMBING AND SPECIALTIES

DWV PIPE AND FITTINGS: COPPER DWV WITH SOLDERED JOINTS ABOVE GRADE. CAST IRON WITH HEAVY DUTY HUBLESS JOINTS OR ABS PLASTIC WITH SOLVENT WELDED JOINTS BELOW GRADE.

NONPOTABLE WATER (INDUSTRIAL WATER) SHALL INCLUDE SIGNAGE PER UPC; BLACK LETTERS ON YELLOW BACKGROUND, "CAUTION: NONPOTABLE WATER, DO NOT DRINK" ON PIPE AND PLACARD AT EACH FIXTURE DOWNSTREAM OF BACKFLOW DEVICE AND SIMILAR PIPE LABELS 20' ON–CENTERS.

WATER PIPE AND FITTINGS: TYPE L COPPER PIPE WITH SOLDER TYPE WROUGHT COPPER FITTINGS. FIT JOINTS USING LEAD–FREE SOLDER WITH WATER–SOLUBLE FLUX. MECHANICAL "PROPRESS" FITTINGS FOR DOMESTIC WATER ARE ACCEPTABLE.

STERILIZE WATER LINES WITH CHLORINE BEFORE ACCEPTANCE OF PROJECT BY OWNER. SUBMIT WRITTEN CERTIFICATION THAT STERILIZATION HAS BEEN COMPLETED.

BALL VALVES: BRASS OR BRONZE BODY, 2 PIECE, FULL PORT, 600 PSIG WOG AND BALL TFE SEATS, –20°F TO 400 °F TEMPERATURE RANGE. MANUFACTURER: NIBCO 585–70–66 OR EQUAL.

PROVIDE FIXTURES AND ACCESSORIES AS SCHEDULED WITH CARRIERS, SUPPORTS, ANGLE STOPS, AND STAINLESS STEEL FLEX CONNECTORS.

WALL CLEANOUTS: COUNTERSUNK PLUG, CAST BRONZE BODY WITH STAINLESS STEEL ACCESS COVER. JR SMITH MODEL 4452, ZURN, JOSAM, JONESPEC OR WADE.

230593 – TESTING, ADJUSTING AND BALANCING (TAB)

CONTRACTOR, AS PART OF THIS CONTRACT, SHALL OBTAIN THE SERVICES OF AN AIR BALANCE COMPANY (TAB AGENCY) TO PERFORM THE TESTING AND BALANCING WORK. TAB AGENCY SHALL BE NEBB CERTIFIED.

PERFORM WORK IN ACCORDANCE WITH THE AGENDA AND RECOMMENDED PROCEDURES SPECIFIED IN THE NEBB STANDARDS, AND MODIFIED BY THESE DRAWINGS. BALANCE AIR AND LIQUID FLOW RATES TO WITHIN +/– 5% OF DESIGN FLOW RATES INDICATED SUCH THAT INDICATED MINIMUM AIR CHANGES PER HOUR OR AIR FLOWS SHALL BE PROVIDED. AIRFLOWS LESS THAN 300 CFM MAY BE BALANCED TO +/– 10%, EXCEPT IN AREAS REQUIRED TO BE POSITIVE OR NEGATIVE DIFFERENTIAL PRESSURE TO ADJACENT AREAS.

AREAS REQUIRED TO BE PRESSURIZED POSITIVE OR NEGATIVE TO ADJACENT AREAS SHALL BE VERIFIED, VALUES RECORDED WITH DOORS, WINDOWS AND OTHER OPENINGS IN NORMAL OPERATIONAL STATE. AREAS SHALL BE BALANCED TO MAINTAIN RELATIONSHIP AND CONFIRMED WITH BUILDING AUTOMATION SYSTEM, BAS, AND 3 CONTINUOUS DAYS OF TRENDING INFORMATION (ALARMS, PRESSURE DIFFERENTIALS, AIR FLOWS AND AIR VALVE POSITIONS) SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL OF BALANCING PRIOR TO SUBSTANTIAL INSPECTION.

PRIOR TO ACTUAL START OF TESTING, ADJUSTING AND BALANCING VERIFY THE SYSTEMS AND EQUIPMENT ARE READY FOR THIS WORK. REVIEW PLANS BEFORE CONSTRUCTION STARTS AND INSTALLATION FOR EQUIPMENT AND ACCESS TO BALANCE SYSTEMS. CORRECT AIR AND WATER SYSTEM PERFORMANCE DEFICIENCIES DISCLOSED BY INITIAL TESTING AND NOTIFICATION TO ENGINEER, PRIOR TO FINAL BALANCING.

OBTAIN SYSTEM DRAWINGS FOR REBALANCING SYSTEMS WITHIN THIS PROJECT. COORDINATE BALANCING PLAN, INCLUDING PHASING, TESTING, SCHEDULING, AND COMMISSIONING WITH OWNER AND ENGINEER. COORDINATE TAB WORK WITH THE SEPARATE HVAC IMPROVEMENTS PROJECT TO AVOID DUPLICATION OF WORK.

ADJUST AIR PATTERN CONTROLLERS, GRILLES, AND REGISTER BLADES FOR PROPER AIR DIFFUSION PATTERNS PRIOR TO TESTING, ADJUSTING, AND BALANCING.

SETTINGS OF VALVES, DAMPERS, AND OTHER ADJUSTMENTS DEVICES SHALL BE PERMANENTLY MARKED BY THE BALANCING AGENCY, SO THAT ADJUSTMENT CAN BE EASILY RESTORED IF DISTURBED AT ANY TIME.

SUBMIT A FINAL REPORT IDENTIFYING EACH PIECE OF EQUIPMENT, HEATING AND COOLING ELEMENTS, DESIGN PARAMETERS, AND FINAL BALANCED CONDITIONS. SUBMIT FLOOR PLAN SKETCH IDENTIFYING RELATIVE DIFFERENTIAL PRESSURES, EACH AIR INLET/OUTLET AND ITS BALANCED AIRFLOW.

FINAL BALANCE REPORT SHALL BE REVIEWED BY THE ENGINEER BEFORE FIELD COMMISSIONING OR FINAL FUNCTIONAL CHECKOUT OF THE MECHANICAL SYSTEMS STARTS.

COORDINATE TAB COMMISSIONING REQUIREMENTS UNDER SECTION 200800 – MECHANICAL COMMISSIONING. UPON COMPLETION OF COMMISSIONING, UPDATE TAB REPORT, FLOOR PLAN SKETCH, AND RESUBMIT COMPLETE REPORT. UPDATE AND SUBMIT PROVIDENCE'S HVAC ONE–LINE DIAGRAMS, INLET AND OUTLET AIRFLOW FLOOR PLAN SKETCHES; COORDINATE FINAL SUBMITTAL AND TAB INFORMATION WITH ENGINEER.

232113 – HYDRONIC HEATING AND COOLING SYSTEMS

TYPE L COPPER WITH BRAZED TYPE WROUGHT COPPER FITTINGS WITH WATER–SOLUBLE FLUX. MECHANICAL "PROPRESS" FITTINGS ARE ACCEPTABLE.

REHEAT COIL BRANCH LINES 3/4" UNLESS NOTED OTHERWISE.

CHECK VALVES: Y–PATTERN, SWING–TYPE, BRONZE FOR VALVES 2 INCHES AND LESS, NIBCO S–413 OR EQUAL. SPRING ACTUATED, WAFER–STYLE, IRON BODY SILENT VALVES FOR GREATER THAN 2 INCHES, NIBCO W–910 OR EQUAL.

MANUAL BALANCE VALVES: BRASS BODY, STAINLESS STEEL BALL, INTEGRAL PT PORTS, AND MEMORY STOP INDICATOR. B&G CIRCUIT SETTER OR EQUAL.

TERMINAL REHEAT COIL ASSEMBLIES WITH GRISWOLD FLOW CONTROL VALVE KITS WITH STRAINER, UNIONS, MANUAL AIR VENT, TEST TEES, AND BALL TYPE CONTROL VALVE WITH SIEMENS ACTUATOR.

BALL VALVES: BRASS OR BRONZE BODY, 2 PIECE, FULL PORT, 600 PSIG WOG AND BALL TFE SEATS, –20 °F TO 400 °F TEMPERATURE RANGE. MANUFACTURER: NIBCO 585–70–66 OR EQUAL.

233100 – DUCTS AND ACCESSORIES

DUCTWORK SHALL BE PER SMACNA DUCT CONSTRUCTION STANDARDS, MEDIUM PRESSURE, 4 INCHES WC, +/–, CLASS UPSTREAM OF TERMINAL UNITS AND LOW PRESSURE 2 INCHES WC +/–. DOWN STREAM OF TERMINAL UNITS, G–90 COATING (UNLESS ALUMINUM OR SS IS IDENTIFIED OR REQUIRED), SEALS CLASS A, MINIMUM 26 GAUGE, AS MINIMUM CRITERIA. FITTINGS SHALL BE LOW LOSS TYPE. RECTANGULAR MITERED FITTINGS ON LOW PRESSURE DUCT SYSTEMS SHALL BE PROVIDED WITH TURNING VANES.

AIR SYSTEMS SERVING LAB HOODS SHALL HAVE LONGITUDE AND TRANSVERSE SEAMS AND JOINTS SEALED AIR TIGHT. SEALING METHODS SHALL BE APPROVED BY THE ENGINEER. DUCT RUNS SHALL BE CAPPED AND PRESSURE TESTED BEFORE CONNECTION TO TERMINAL UNITS, COILS, AIR VALVES, EQUIPMENT, OR AIR OUTLETS/INLETS.

FLEX DUCT SHALL BE CLASS 1 FLEXIBLE AIR DUCT, UL LISTED AND COMPLYING WITH NFPA 90A AND 90B, THERMAFLEX TYPE G–KM. SIZES TO MATCH GRD CONNECTIONS. LENGTH SHALL BE 6 FEET TO 10 FEET WITH A MAXIMUM OF 180 DEGREES IN BENDS. DO NOT KINK FLEX DUCT.

UPON COMPLETION OF INSTALLATION, CLEAN REHEAT COILS AND STRAIGHTEN FINS.

ACOUSTICAL LINING: 1 INCH THICK, UL LISTED, 1.5 PCF, FLEXIBLE, EDGE–COATED, MAT–FACED GLASS FIBER INSULATION BONDED WITH THERMOSETTING RESIN. MAXIMUM VELOCITY RATING OF 6,000 FPM. MAXIMUM OPERATING TEMPERATURE OF 250 DEGREES F. JOHNS MANVILLE LINACOUSTIC RC OR EQUAL.

BRANCH DUCTS TO INDIVIDUAL DIFFUSERS SHALL BE THE SAME SIZE AS THE DIFFUSER CONNECTION COLLAR.

PLENUMS SHALL BE CONSTRUCTED OF AND MATERIALS WITHIN PLENUMS SHALL MEET OR BE LOWER THAN FLAME SPREAD 25 AND SMOKE DEVELOPED 50.

PROVIDE VOLUME DAMPERS AT EACH LOW–PRESSURE DUCT MAIN AND BRANCH, AS SHOWN, AND REQUIRED FOR BALANCING SYSTEMS. PROVIDE ACCESS TO DAMPER OR REMOTE DAMPER OPERATORS WHERE REQUIRED BY CEILING CONSTRUCTION ACCESS LIMITATIONS.

LOCATE DIFFUSERS AND GRILLES AS SHOWN. COORDINATE LOCATIONS TO AVOID CONFLICTS WITH LIGHTS, FIRE PROTECTION, STRUCTURE, AND ARCHITECTURAL REQUIREMENTS.

PAINT PLENUM BOXES AND DUCT INTERIORS FLAT BLACK WHERE OBSERVABLE FROM THE FLOOR OR PUBLIC AREAS.

PROVIDE ADEQUATE CLEARANCES FOR OPERATIONS AND MAINTENANCE FOR DAMPERS, LINKS, AND ACTUATORS.

233400 – HVAC FANS

EXHAUST FANS EF–12 THROUGH EF–15: DYNAMICALLY AND STATICALLY BALANCED AT FACTORY, AMCA CERTIFIED RATINGS SEAL FOR AIR PERFORMANCE, ELECTRONICALLY COMMUTATED MOTOR, FACTORY SPEED CONTROLLER DIAL, FACTORY DISCONNECT SWITCH, AND PERFORMANCE AND ELECTRICAL CHARACTERISTICS AS SCHEDULED. DIRECT DRIVEN WITH CENTRIFUGAL BACKWARD INCLINED FAN WHEEL, CONSTRUCTED OF ALUMINUM WITH MATCHED WHEEL AND INLET CONES FOR PRECISE RUNNING TOLERANCES. FAN HOUSINGS CONSTRU

PLUMBING FIXTURE CONNECTION SCHEDULE

SYMBOL	FIXTURE	WASTE (INCH)	VENT (INCH)	HW (INCH)	CW (INCH)	POWER	REMARKS, BASIS OF DESIGN
SECTION 224000 – PLUMBING FIXTURES							
P–2	EXAM ROOM SINK	1–1/2	1–1/4	1/2	1/2	–	COUNTER MOUNTED SINGLE COMPARTMENT 18GA TYPE 304 STAINLESS STEEL SINK, 5.25 INCH GOOSENECK SWING SPOUT FAUCET WITH 1.5 GPM OUTLET, QUARTER TURN WRISTBLADE HANDLES, ADA COMPLIANT. SINK: ELKAY LRAD1716 (6–1/2" BASIN DEPTH). FAUCET: CHICAGO FAUCETS 895–317GN2AE35ABCP.
P–5	WORK ROOM SINK	1–1/2	1–1/2	1/2	1/2	–	STAINLESS STEEL, SINGLE BOWL, 10–1/2" DEPTH. 2.2 GPM FAUCET WITH INDEPENDENTLY OPERATED EYEWASH. 4 INCH WRIST BLADE HANDLES. WITH PLASTER TRAP. FAUCET: SPEAKMAN SEF–1800–CA. SINK: ELKAY CENTERED 3–HOLE DLR252210. MIXING VALVE: SPEAKMAN SE–370. PLASTER TRAP: BUFFALO TRAP–EZE.
P–7	MOP SINK	3	2	3/4	3/4	–	FLOOR MOUNTED, 24" x 24", SERVICE BASIN, 10" DEPTH, 24" HIGH STAINLESS STEEL WALL GUARDS, SERVICE FAUCET WITH INTEGRAL VACUUM BREAKER, HOSE AND HOSE BRACKET, MOP HANGER. PFMB SERIES MODEL NUMBERS: PFMB2424S, PFBG24V, PFWG24S, PF245, PFSSHE, PF296. FAUCET: PROFLO MODEL PF1118.

AIR INLET/OUTLET SCHEDULE

SYMBOL	SCFM RANGE	MAX NC	MAX APD (IN WC)	ACTIVE FACE SIZE (INCH)	DUCT SIZE (INCH)	BASIS OF DESIGN	REMARKS
SECTION 233700 – AIR OUTLETS AND INLETS							
SA	100	10	0.04	18X18	6	TITUS TDCA–AA	CEILING DIFFUSER: ALUMINUM, 24X24 MODULE, ADJUSTABLE PATTERN, ROUND NECK, LAY–IN CEILING BORDER.
SB	200	16	0.06	18X18	8	TITUS TDCA–AA	SAME AS SA, EXCEPT SIZE.
SC	280	17	0.07	18X18	10	TITUS TDCA–AA	SAME AS SA, EXCEPT SIZE.
SD	500	17	0.06	18X18	14	TITUS TDCA–AA	SAME AS SA, EXCEPT SIZE.
RA	500	–	0.01	24X12	24X12	TITUS 50F	RETURN GRILLE: ALUMINUM 1/2" X 1/2" X 1/2" EGGCRATE GRID, LAY–IN OR SURFACE MOUNT BORDER (COORD W/ RCP).
RB	300	–	0.01	12X12	12X12	TITUS 50F	RETURN GRILLE SAME AS RA EXCEPT SIZE.
EA	110	10	0.05	6X6	6	TITUS 50F	EXHAUST GRILLE: ALUMINUM 1/2" X 1/2" X 1/2" EGGCRATE GRID, LAY–IN OR SURFACE MOUNT BORDER (COORD W/ RCP).
EB	250	–	0.03	12X12	14X6	TITUS 33RS	HEAVY DUTY RETURN GRILLE: STEEL, OBD. SURFACE MOUNT BORDER, 38 DEG DEFLECTION.

FAN COIL UNIT SCHEDULE

TAG	SPACE SERVED	CFM	ESP (IN WC)	EAT DB (DEG F)	EAT WB (DEG F)	LAT DB (DEG F)	LAT WB (DEG F)	TOTAL MBH (1)	SENS. MBH (1)	EWT (DEG F) (1)	LWT (DEG F) (1)	COIL GPM (1)	COIL WPD (FT)	MOTOR (HP,V,PH)	REMARKS, BASIS OF DESIGN
FCU–4	RM 138–139	250	0.5	76	62	54.6	53.7	5.8	5.7	45	54.8	1.2	1.5	1/8,115,1	FAN COIL UNIT: FC CENTRIFUGAL FAN, FLAT FILTER SECTION. STAINLESS STEEL DRAIN PAN WITH CONDENSATE ROUTED TO DRAIN. 4 ROWS. DAIKIN MODEL FCHH203, SIZE 03.
FCU–5	RM 117	900	0.5	76	62	58.7	55.7	19.4	19.4	45	54.7	4.2	5	1/4,115,1	FAN COIL UNIT: FC CENTRIFUGAL FAN, FLAT FILTER SECTION. STAINLESS STEEL DRAIN PAN WITH CONDENSATE ROUTED TO DRAIN. DAIKIN MODEL FCHH212, SIZE 12.
FCU–6	LAB 109	280	0.5	76	62	58.9	55.2	5.5	5.2	45	55.3	1.2	1	1/8,115,1	FAN COIL UNIT: FC CENTRIFUGAL FAN, FLAT FILTER SECTION. STAINLESS STEEL DRAIN PAN WITH CONDENSATE ROUTED TO DRAIN. 3 ROWS. DAIKIN MODEL FCHH203, SIZE 03.

NOTES:
(1) COOLING FLUID IS 30% PG.

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49TH
Mark D. Landsberg
4/2/2018
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1" ACTUAL

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

SEARHC ALICIA ROBERTS MEDICAL CLINIC

NWA 1644
KLAWOCK, ALASKA

SHEET TITLE:
SCHEDULES

CHECKED MDL
DRAWN KMS/MPL

RFP-01 ARMC PHASE 2 SCOPE ADDITION

SHEET # M0.5
PLOT DATE 4/2/2018
ISSUE DATE 04/3/2018

SHEET NOTES

1. BOUNDARY SHOWS GENERAL LIMITS OF WORK AREA, BUT SPECIFIC ITEMS OR SYSTEMS MAY EXTEND BEYOND THIS GENERAL BOUNDARY. SPECIFIC ROOMS MAY NOT HAVE WORK IN THEM AND SHALL REMAIN AS IS.
2. EXISTING CONDITIONS ARE BASED UPON ORIGINAL CONSTRUCTION DRAWINGS DATED 1994 AND BUILDING ADDITION DRAWINGS DATED 7-29-2003 AND LIMITED FIELD OBSERVATIONS. FIELD VERIFY.



1 M1.0 OVERALL DEMOLITION PLAN – MECHANICAL

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

0 4' 8' 16' 24'

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4/2/2018
ME-8055
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SEARHC ALICIA ROBERTS MEDICAL CLINIC

NWA 1644
KLAWOCK, ALASKA

RFP-01 ARMC PHASE 2 SCOPE ADDITION

SHEET TITLE:
OVERALL DEMOLITION PLAN - MECHANICAL

CHECKED MDL
DRAWN KMS/MPL

SHEET # M1.0
PLOT DATE 4/2/2018
ISSUE DATE 04/3/2018

SHEET NOTES

1. DEMOLISH WASTE AND VENT PIPING IN WALL. CAP BELOW FLOOR OR ABOVE CEILING.
2. DEMOLISH WASTE PIPE UP AND VENT. PREPARE FOR RECONNECTION.
3. FIELD VERIFY EXTENT AND LOCATION OF PIPING IN PREPARATION OF NEW WORK.
4. COORDINATE DEMOLITION WITH NEW WORK.
5. EXISTING CONDITIONS ARE BASED UPON ORIGINAL CONSTRUCTION DRAWINGS DATED 1994 AND BUILDING ADDITION DRAWINGS DATED 7-29-2003 AND LIMITED FIELD OBSERVATIONS. FIELD VERIFY.

1 M1.4 DEMOLITION UNDERFLOOR PLAN - PLUMBING

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

0 2' 4' 8' 12'

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SEARHC ALICIA ROBERTS MEDICAL CLINIC

NWA 1644
KLAWOCK, ALASKA

RFP-01 ARMC PHASE 2 SCOPE ADDITION

SHEET TITLE:
DEMOLITION UNDERFLOOR PLAN - PLUMBING

CHECKED MDL
DRAWN KMS/MPL

SHEET # M1.4
PLOT DATE 4/2/2018
ISSUE DATE 04/3/2018

SHEET NOTES

1. DEMOLISH EXISTING BRANCH LINE AND PREPARE LINE IN CEILING FOR CONNECTION TO NEW WORK.
2. DEMOLISH PIPING IN WALL AND ABOVE CEILING. CAP PIPES ABOVE CEILING.
3. DEMOLISH SINK. PIPING TO BE REUSED.
4. COORDINATE DEMOLITION WITH NEW WORK.
5. EXISTING CONDITIONS ARE BASED UPON ORIGINAL CONSTRUCTION DRAWINGS DATED 1994 AND BUILDING ADDITION DRAWINGS DATED 7-29-2003 AND LIMITED FIELD OBSERVATIONS. FIELD VERIFY.

1 M1.5 DEMOLITION PLAN - PIPING

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

0 2' 4' 8' 12'

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SEARHC ALICIA ROBERTS MEDICAL CLINIC

NWA 1644
KLAWOCK, ALASKA

RFP-01 ARMC PHASE 2 SCOPE ADDITION

SHEET TITLE:
DEMOLITION PLAN - PIPING

CHECKED MDL
DRAWN KMS/MPL

SHEET # M1.5
PLOT DATE 4/2/2018
ISSUE DATE 04/3/2018

SHEET NOTES

1. DEMOLISH GRD AND DUCT TO POINT INDICATED AND CAP.
2. DEMOLISH GRD AND DUCT TO POINT INDICATED. DUCT TO BE REUSED.
3. DEMOLISH SUPPLY DIFFUSER AND FIRE DAMPER. DUCT TO BE REUSED.
4. COORDINATE DEMOLITION WITH NEW WORK.
5. EXISTING CONDITIONS ARE BASED UPON ORIGINAL CONSTRUCTION DRAWINGS DATED 1994 AND BUILDING ADDITION DRAWINGS DATED 7-29-2003 AND LIMITED FIELD OBSERVATIONS. FIELD VERIFY.

EXAM 1 127
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EXAM 3 129
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EXAM 5 131
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TOILET 103
PHARMACY 107A
HALL 112
OFFICE 105
OFFICE 114
OFFICE 113
LOBBY / WAITING 102

1 M1.6 DEMOLITION PLAN – HVAC
SCALE: 1/4" = 1'-0"

0 2' 4' 8' 12'

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SEARHC ALICIA ROBERTS MEDICAL CLINIC

NWA 16644
KLAWOCK, ALASKA

RFP-01 ARMC PHASE 2 SCOPE ADDITION

SHEET TITLE:
DEMOLITION PLAN - HVAC

CHECKED MDL
DRAWN KMS/MPL

SHEET # M1.6
PLOT DATE 4/2/2018
ISSUE DATE 04/3/2018

SHEET NOTES

1. BOUNDARY SHOWS GENERAL LIMITS OF WORK AREA, BUT SPECIFIC ITEMS OR SYSTEMS MAY EXTEND BEYOND THIS GENERAL BOUNDARY. SPECIFIC ROOMS MAY NOT HAVE WORK IN THEM AND SHALL REMAIN AS IS.
2. EXISTING CONDITIONS ARE BASED UPON ORIGINAL CONSTRUCTION DRAWINGS DATED 1994 AND BUILDING ADDITION DRAWINGS DATED 7-29-2003 AND LIMITED FIELD OBSERVATIONS. FIELD VERIFY.



1 M2.0A OVERALL PLAN – MECHANICAL

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

0 4' 8' 16' 24'

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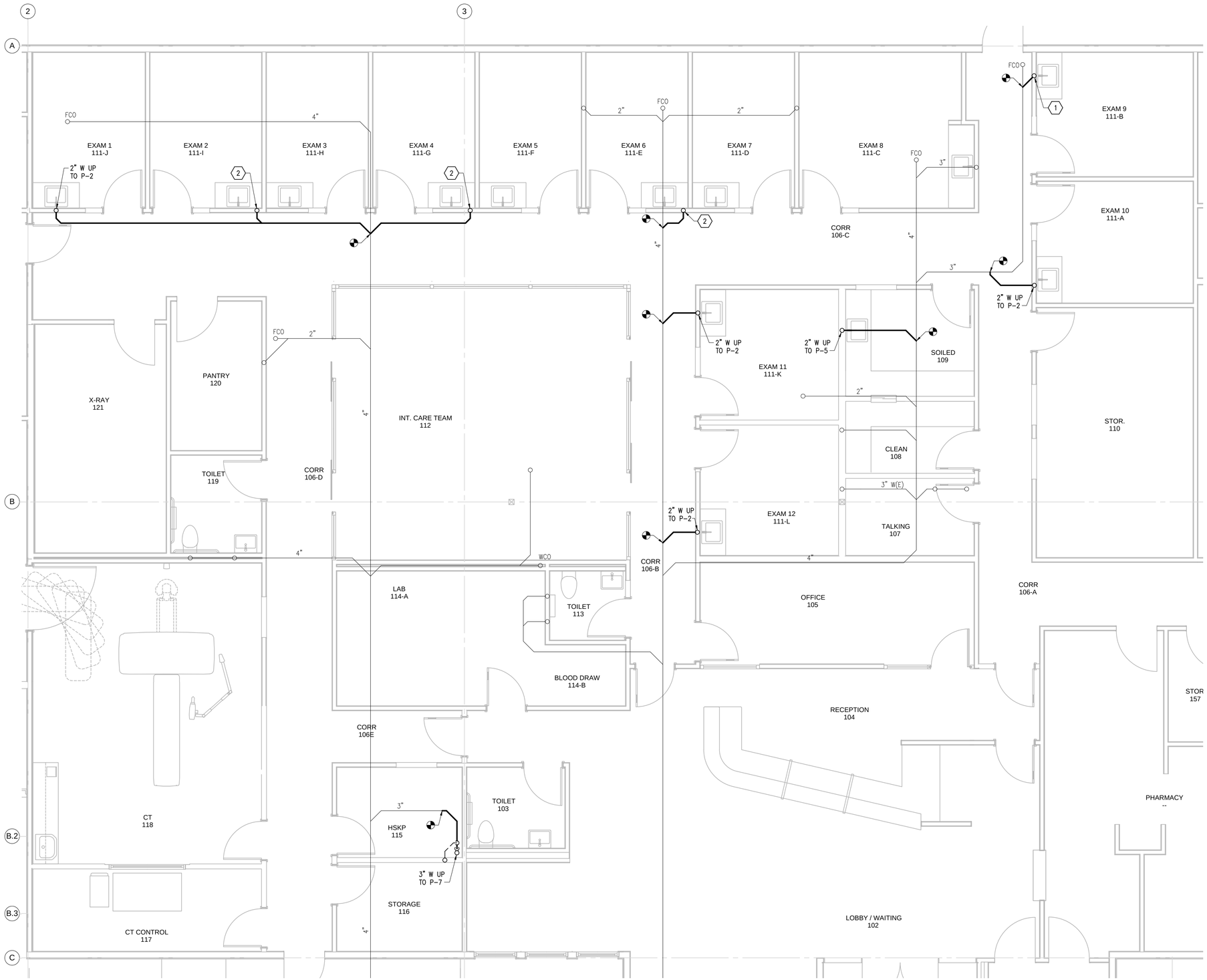
NWA 1644
KLAWOCK, ALASKA

RFP-01 ARMC PHASE 2 SCOPE ADDITION

SHEET TITLE:
OVERALL PLAN - MECHANICAL

CHECKED MDL
DRAWN KMS/MPL

SHEET # M2.0A
PLOT DATE 4/2/2018
ISSUE DATE 04/3/2018



SHEET NOTES

1. EXTEND WASTE PIPING BELOW FLOOR, INTO WALL, AND CONNECT NEW SINK P-2. FIELD VERIFY EXTENT OF EXISTING PIPING.
2. 2" WASTE UP TO SERVE TWO P-2 SINKS.
3. FIELD DETERMINE EXACT EXTENT OF FLOOR DEMOLITION AND REPAIR TO ACCOMPLISH INSTALLATION. SEE ARCHITECTURAL DRAWINGS.
4. CUT AND PATCH CONCRETE FOR PLUMBING WORK. COORDINATE WITH ARCHITECTURAL REQUIREMENTS.
5. EXISTING CONDITIONS ARE BASED UPON ORIGINAL CONSTRUCTION DRAWINGS DATED 1994 AND BUILDING ADDITION DRAWINGS DATED 7-29-2003 AND LIMITED FIELD OBSERVATIONS. FIELD VERIFY.

STATE OF ALASKA
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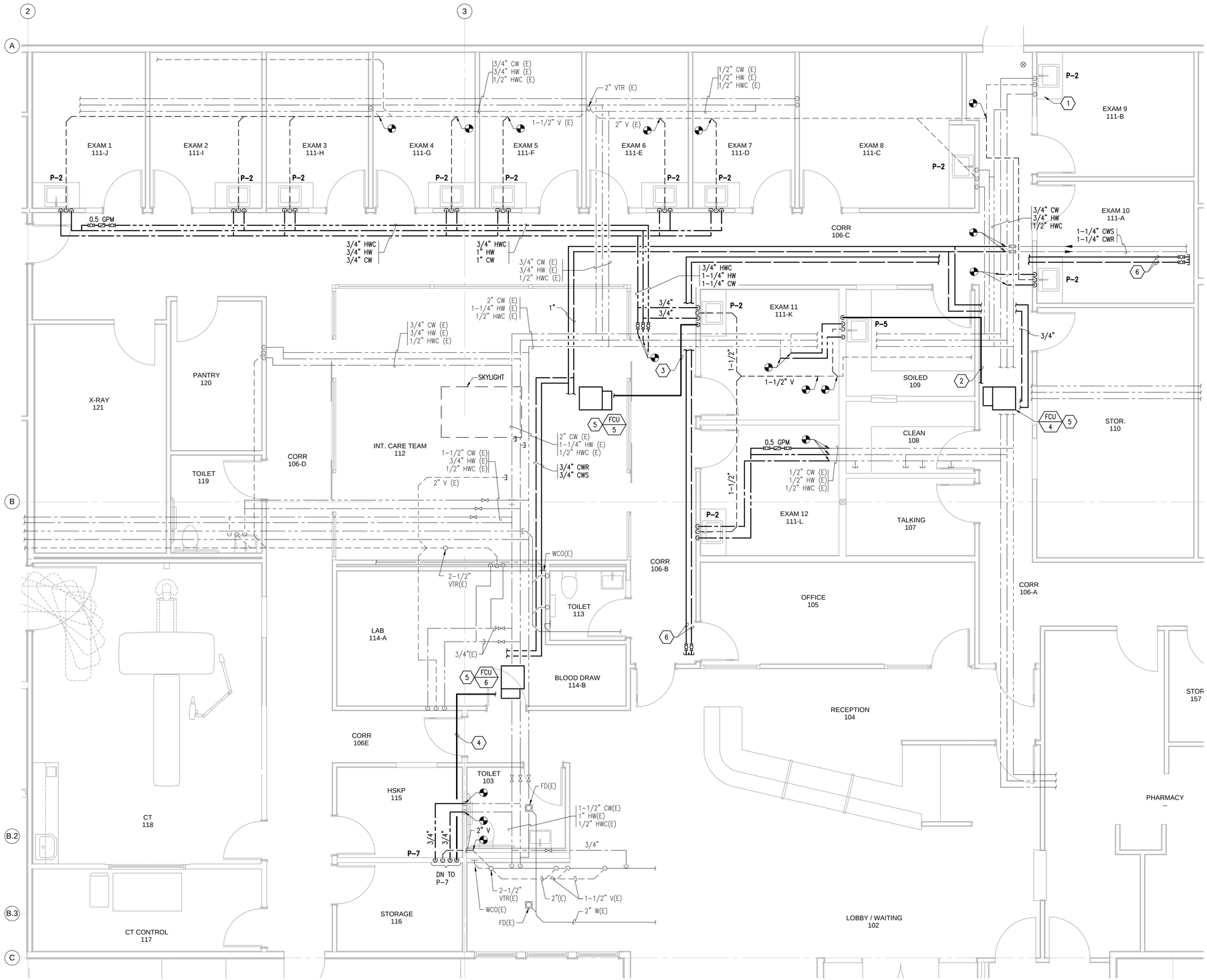
SHEET TITLE:
UNDERFLOOR
PLAN - PLUMBING

CHECKED MDL
DRAWN KMS/MPL

SHEET # M2.4
PLOT DATE 4/2/2018
ISSUE DATE 04/3/2018

RFP-01 ARMC PHASE 2 SCOPE ADDITION

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SHEET NOTES

1. EXTEND CW, HW, AND VENT BRANCH LINES FROM CEILING, THROUGH WALL AND CONNECT SINK. FIELD VERIFY EXTENT OF EXISTING PIPING.
2. ROUTE FCU-4 CONDENSATE, 1/2" DRAIN PIPE, CONCEALED, TO SOILED ROOM 109 AND CONNECT TO SINK TAILPIECE.
3. ROUTE FCU-5 CONDENSATE, 1/2" DRAIN PIPE, CONCEALED, TO EXAM ROOM 11 (ROOM 111-K) AND CONNECT TO SINK TAILPIECE.
4. ROUTE FCU-6 CONDENSATE, 1/2" DRAIN PIPE, CONCEALED, TO HOUSEKEEPING ROOM 115 AND DRAIN INTO MOP SINK.
5. SEE DIAGRAM 1/M3.3.
6. ALTERNATE WORK: 2-1/2" HWS/HWR FOR FUTURE PHASE 3 EXPANSION, WITH BALL VALVES AND CAPPED AT EACH END. PRESSURE TEST AND INSULATE PIPES.
7. EXISTING CONDITIONS ARE BASED UPON ORIGINAL CONSTRUCTION DRAWINGS DATED 1994 AND BUILDING ADDITION DRAWINGS DATED 7-29-2003 AND LIMITED FIELD OBSERVATIONS. FIELD VERIFY.
8. CUT AND PATCH CONCRETE AS NEEDED TO ACCOMPLISH PLUMBING WORK.
9. PROVIDE HIGH POINT VENTS, LOW POINT DRAINS (WITH CAPPED HOSE CONNECTIONS), AND SLOPE PIPING AS NECESSARY TO ALLOW FOR THE COMPLETE DRAINAGE OF THE CHILLED WATER COOLING SYSTEM.

1 / M2.5 FLOOR PLAN – PIPING

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

0 2' 4' 8' 12'

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SEARHC ALICIA ROBERTS MEDICAL CLINIC

NWA 1644
KLAWOCK, ALASKA

RFP-01 ARMC PHASE 2 SCOPE ADDITION

SHEET TITLE:
FLOOR PLAN - PIPING

CHECKED MDL
DRAWN KMS/MPL

SHEET # M2.5
PLOT DATE 4/2/2018
ISSUE DATE 04/3/2018

SHEET NOTES

1. SEE DETAIL 2/M3.3.
2. REPLACE EXISTING S/A GRILLE. LOCATE NEW S/A DIFFUSER AS SHOWN AND CONNECT TO EXISTING DUCT WITH FLEX.
3. EXISTING CONDITIONS ARE BASED UPON ORIGINAL CONSTRUCTION DRAWINGS DATED 1994 AND BUILDING ADDITION DRAWINGS DATED 7-29-2003 AND LIMITED FIELD OBSERVATIONS. FIELD VERIFY.

1 FLOOR PLAN – HVAC
M2.6 SCALE: 1/4" = 1'-0"

0 2' 4' 8' 12'

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NWA 16644
KLAWOCK, ALASKA

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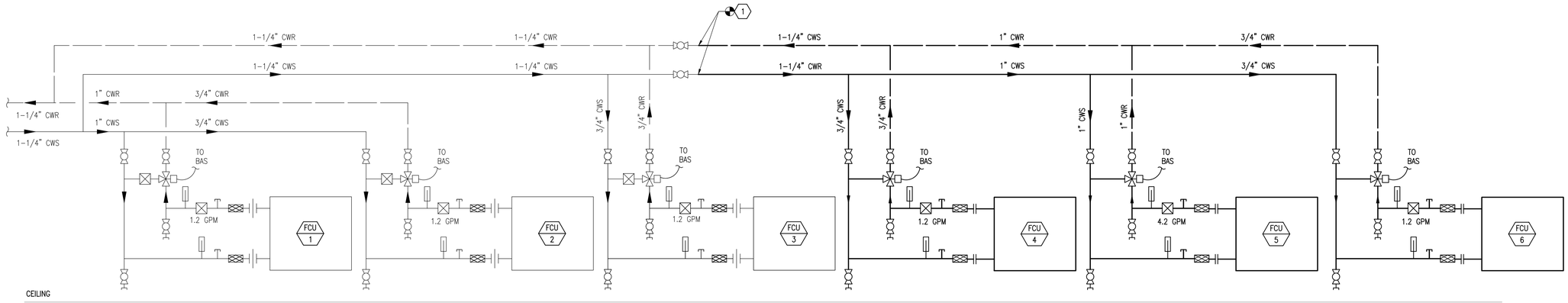
SHEET TITLE: FLOOR PLAN - HVAC

CHECKED MDL
DRAWN KMS/MPL

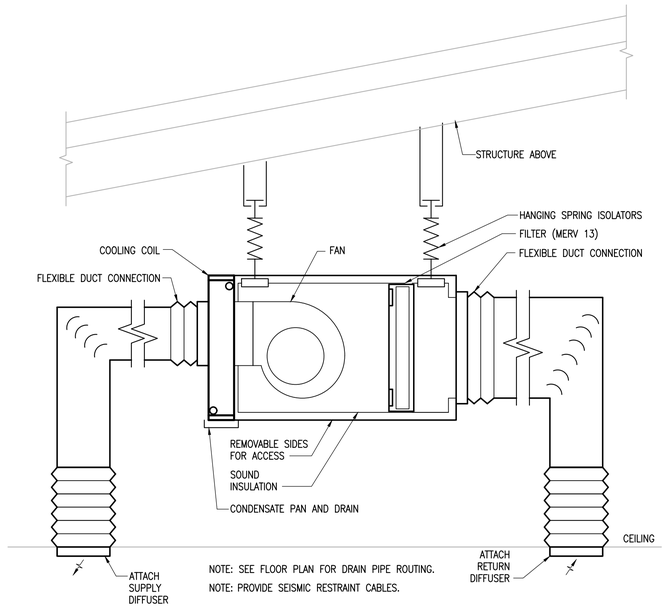
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PLOT DATE 4/2/2018
ISSUE DATE 04/3/2018

SHEET NOTES

1. 1-1/4" CHILLED WATER SUPPLY AND RETURN CONNECTED TO EXISTING, CAPPED PIPES. CONNECT AND EXTEND SYSTEM.



1 M3.3 DIAGRAM – CHILLED WATER COOLING SYSTEM
SCALE: NONE



2 M3.3 DETAIL – FAN COIL UNIT
SCALE: NONE

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RFP-01 ARMC PHASE 2 SCOPE ADDITION

SHEET TITLE:
DETAILS AND DIAGRAMS

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DRAWN	KMS/MPL
SHEET #	M3.3
PLOT DATE	4/2/2018
ISSUE DATE	04/3/2018

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GENERAL

SYMBOL	DESCRIPTION
1 / 2.	SHEET NOTE CONVENTION: REFERENCED SHEET NOTE GENERAL SHEET NOTE
#	FEEDER IDENTIFICATION TAG FEEDER NUMBER
1 / E0.1	DETAIL REFERENCE DETAIL NUMBER SHEET WHERE DETAIL APPEARS
A / E0.1	SECTION REFERENCE SECTION LETTER SHEET WHERE SECTION APPEARS
	LINE WORK CONVENTION: NEW OR REINSTALLED ITEM ITEM TO BE DEMOLISHED EXISTING ITEM TO REMAIN FUTURE ITEM EXISTING ITEM TO BE RELOCATED
	CONDUIT/FEEDER LINE CONVENTION: CONCEALED UNDERGROUND OR CONCEALED IN FLOOR EXPOSED FLEXIBLE CONDUIT
P-1,3	CIRCUITING CONVENTION CIRCUIT NUMBER(S) PANEL
	BRANCH CIRCUIT HOMERUN TO PANELBOARD NUMBER OF MARKS INDICATE NUMBER OF CONDUCTORS IN RACEWAY, NOT COUNTING GROUNDING CONDUCTORS. (ABSENCE OF MARKS INDICATE TWO CONDUCTORS, PLUS REQUIRED GROUNDS) NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS UNSWITCHED CONDUCTORS SHOWN ON HOMERUN SIDE OF NEUTRAL NEUTRAL SWITCHED CONDUCTORS SHOWN ON LOAD SIDE OF NEUTRAL

ABBREVIATIONS

ACS	ACCESS CONTROL SYSTEM
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM
APPROX	APPROXIMATE
AHJ	AUTHORITY HAVING JURISDICTION
ARMC	ALICIA ROBERTS MEDICAL CENTER
BAS	BUILDING AUTOMATION SYSTEM
CKT	CIRCUIT
CCTV	CLOSED CIRCUIT TELEVISION
CH	+4 INCHES ABOVE COUNTER HEIGHT
CMH	COMMUNICATIONS MANHOLE
C.	CONDUIT
C.O.	CONDUIT ONLY
CU	COPPER
(D)	DEMOLISH
DB	DECIBEL
EL	EMERGENCY LIGHT
ELU	EMERGENCY LIGHTING UNIT
ENL	EMERGENCY NIGHT LIGHT
(E)	EXISTING
(F)	FUTURE
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FO	FIBER OPTIC
FOPP	FIBER OPTIC PATCH PANEL
FSD	FIRE/SMOKE DAMPER
HZ	FREQUENCY
HP	HORSEPOWER
IAW	IN ACCORDANCE WITH
K	KELVIN
KVA	KILO VOLT-AMPS
KW	KILOWATT
LCP	LIGHTING CONTROL PANEL
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CONTROL PANEL
MDS	MAIN DISTRIBUTION SWITCHBOARD
MIN	MINIMUM
MM	MULTIMODE FIBER OPTIC CABLE
MTR	MAIN TELECOM ROOM
NAC	F/A SYSTEM NOTIFICATION APPLIANCE CIRCUIT
NEC	NATIONAL ELECTRICAL CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NL	NIGHT LIGHT
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OFC	OPTICAL FIBER CABLE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PA	PUBLIC ADDRESS
PH	PHASE (ELECTRICAL)
SEARHC	SOUTHEAST ALASKA REGIONAL HEALTH CONSORTIUM
SM	SINGLEMODE FIBER OPTIC CABLE
SMR	SURFACE MOUNTED RACEWAY
SPD	SURGE PROTECTIVE DEVICE
TELECOM	TELECOMMUNICATION
TR	TELECOMMUNICATION ROOM
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VR	VANDAL RESISTANT
VSD	VARIABLE SPEED DRIVE
VAC	VOLTS (ALTERNATING CURRENT)
VDC	VOLTS (DIRECT CURRENT)
V	VOLTS OR VOLTAGE
W	WATT
WP	WEATHERPROOF
WG	WIRE GUARD

LIGHTING

SYMBOL	DESCRIPTION
	LIGHTING FIXTURE, LINEAR LAMP(S)
	LIGHTING FIXTURE – WALL MOUNTED
	LIGHTING FIXTURE – SURFACE OR PENDANT MOUNTED
	LIGHTING FIXTURE – RECESS MOUNTED
	LIGHTING FIXTURE CONNECTED TO EMERGENCY POWER CIRCUIT
	LIGHTING FIXTURE WITH UL924 EMERGENCY BATTERY BALLAST, NIGHT LIGHT
	EXIT FIXTURE – WALL MOUNTED SHADED AREA(S) DENOTE FACE(S) OF SIGN, ARROWS AS NOTED (FIXTURE TYPE EX)
	EXIT FIXTURE – CEILING MOUNTED SHADED AREA(S) DENOTE FACE(S) OF SIGN, ARROWS AS NOTED (FIXTURE TYPE EX)
	EMERGENCY LIGHTING UNIT – WALL MOUNTED (FIXTURE TYPE XA)
	EMERGENCY LIGHTING UNIT – CEILING MOUNTED (FIXTURE TYPE XA)
	SITE LIGHTING – POLE MOUNTED
$	SINGLE POLE SWITCH
$3	THREE-WAY SWITCH
$4	FOUR-WAY SWITCH
$o	SWITCH FOR FIXTURES MARKED 'o',
$D	DIMMER SWITCH
$K	KEYED SWITCH
$M	MOMENTARY SWITCH
$O	OCCUPANCY SENSOR/SWITCH
$P	PILOT LIGHTED SWITCH
PC	PHOTOCELL
	OCCUPANCY SENSOR – WALL MOUNTED
	OCCUPANCY SENSOR – CEILING MOUNTED
$a,b,c LV	LOW VOLTAGE SWITCH(ES) FOR FIXTURES MARKED 'a', 'b', 'c' AS NOTED
$a,b,c KLV	KEYED LOW VOLTAGE SWITCH(ES) FOR FIXTURES MARKED 'a', 'b', 'c', ETC

POWER

SYMBOL	DESCRIPTION
	RECEPTACLE MOUNTING:
	RECEPTACLE – WALL MOUNTED (SEE "RECEPTACLE TYPES" BELOW)
	RECEPTACLE – FLOOR MOUNTED (SEE "RECEPTACLE TYPES" BELOW)
	RECEPTACLE – CEILING MOUNTED (SEE "RECEPTACLE TYPES" BELOW)
	RECEPTACLE TYPES:
	DUPLEX RECEPTACLE
	GROUND FAULT INTERRUPTER, DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	GROUND FAULT INTERRUPTER, DOUBLE DUPLEX RECEPTACLE
	RANGE RECEPTACLE – 50 AMP/250 VOLT
	ELECTRICAL DEVICES:
	SPECIAL PURPOSE RECEPTACLE, NEMA TYPE AS NOTED
M	MOTOR
$T	SWITCH – THERMAL TRIP WITH HEATER
	SURFACE MOUNTED RACEWAY
	FUSED DISCONNECT
	NON-FUSED DISCONNECT
	COMBINATION STARTER/FUSED DISCONNECT
	STARTER OR CONTACTOR
J	JUNCTION BOX AND/OR CONNECTION TO EQUIPMENT
M	METERING DEVICE
PB	PUSHBUTTON – SPECIAL
	PUSHBUTTON (1 BUTTON)
	PUSHBUTTON (2 BUTTON)
	PUSHBUTTON (3 BUTTON)
	PANEL – SURFACE MOUNTED
	PANEL – FLUSH MOUNTED
	TRANSFORMER

SPECIAL SYSTEMS

SYMBOL	DESCRIPTION
X	TELECOMMUNICATION OUTLET – WALL MOUNTED (X DENOTES NUMBER OF PORTS)
C,X	TELECOMMUNICATION OUTLET – CEILING MOUNTED (X DENOTES NUMBER OF PORTS)
	TELEPHONE OUTLET, SINGLE JACK – WALL MOUNTED
IC	INTERCOM CALL IN STATION
F	FIRE ALARM MANUAL PULL STATION
X	FIRE ALARM STROBE – WALL MOUNTED (X DENOTES CANDELA RATING IF OTHER THAN 15cd)
X	FIRE ALARM STROBE – CEILING MOUNTED (X DENOTES CANDELA RATING IF OTHER THAN 15cd)
H	FIRE ALARM HORN – WALL MOUNTED
H	FIRE ALARM HORN – CEILING MOUNTED
X	FIRE ALARM HORN/STROBE – WALL MOUNTED (X DENOTES CANDELA RATING IF OTHER THAN 15cd)
X	FIRE ALARM HORN/STROBE – CEILING MOUNTED (X DENOTES CANDELA RATING IF OTHER THAN 15cd)
X	FIRE ALARM CHIME/STROBE – WALL MOUNTED (X DENOTES CANDELA RATING IF OTHER THAN 15cd)
S	MULTI-TECHNOLOGY SMOKE DETECTOR
H	HEAT DETECTOR
H 135°	FIXED TEMPERATURE HEAT DETECTOR (135 DEGREES FAHRENHEIT)
DD	DUCT DETECTOR
	DOOR HOLDER
DC	DOOR HOLDER/CLOSER
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM ANNUNICATOR
D	DOOR CONTACT
	CCTV CAMERA – PAN TILT ZOOM
	CCTV CAMERA – FIXED
S	SPEAKER – WALL MOUNTED
S	SPEAKER – CEILING OR PENDANT MOUNTED
TV	TELEVISION OUTLET, +90" AFF, UON.
MS	NURSE CALL – MASTER STATION
PS	NURSE CALL – PATIENT STATION
DS	NURSE CALL – DUTY STATION

NOTE: THIS IS A STANDARD LEGEND. NOT ALL SYMBOLS NECESSARILY APPEAR ON THE DRAWINGS

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMPS	BALLAST/DRIVER	MOUNTING
A	LITHONIA 2BLT2-48LHE-ADSM-MVOLT-EZ1-LP840 2'X2' TROFFER, ACRYLIC DIFFUSER, MATTE WHITE FINISH.	LED 4000K	DRIVER WITH UNIT	RECESSED CEILING
B	LITHONIA 2BLT4-60L-ADSM-MVOLT-EZ1-LP840 2'X4' TROFFER, ACRYLIC DIFFUSER, MATTE WHITE FINISH, PROVIDE	LED 4000K	DRIVER WITH UNIT	RECESSED CEILING
EX	LITHONIA LQC-W-X-R-EL N LED EXIT SIGN, ALUMINUM HOUSING, WHITE FINISH, RED DIFFUSE STENCIL LETTERS, NUMBER OF FACES AND ARROWS AS SHOWN ON DRAWINGS.	WITH UNIT	N/A	EXW = WALL, EXC = CEILING

FIXTURE SCHEDULE NOTES

1 REFER TO SHEET SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING LIGHT FIXTURES, LAMPS, DRIVERS, AND BALLASTS.

2 PROVIDE AN UNSWITCHED CIRCUIT CONNECTION (CIRCUIT AS NOTED ON DRAWINGS) TO ALL EXIT SIGNS AND EMERGENCY LIGHTING FIXTURES.

STATE OF ALASKA 49TH
Keith A. Confer
4/2/2018
EE-11391
REGISTERED PROFESSIONAL ENGINEER

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1" ACTUAL

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

SEARHC ALICIA ROBERTS MEDICAL CLINIC

NWA 1644

KLAWOCK, ALASKA

RFP-01 ARMC PHASE 2 SCOPE ADDITION

SHEET TITLE:
LEGEND AND SCHEDULES

CHECKED KAC
DRAWN TRC/TDD

SHEET # E0.1A

PLOT DATE 4/2/2018
ISSUE DATE 04/3/2018

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ELECTRICAL SPECIFICATIONS

26 00 00 ELECTRICAL GENERAL REQUIREMENTS

1. PROVIDE A COMPLETE AND FULLY OPERATIONAL SYSTEM IN ACCORDANCE WITH DIVISIONS 26, 27 AND 28 OF THE SPECIFICATIONS.
2. PROVIDE MATERIALS, LABOR, SERVICES, TOOLS, APPLIANCES AND APPARATUS NOT SPECIFICALLY MENTIONED IN THE CONTRACT DOCUMENTS, BUT WHICH ARE REQUIRED FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM.
3. CONNECT EQUIPMENT AND DEVICES FURNISHED OR INSTALLED BY OTHER TRADES OR FURNISHED BY THE OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF THIS SPECIFICATION.
4. PROVIDE LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR COMPLETE, SAFE WORKABLE ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS. COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND APPLICABLE LOCAL, STATE AND NATIONAL CODES AND STANDARDS.
5. EMPLOY WORKMEN SKILLED IN THE TRADE AND FAMILIAR WITH TECHNIQUES REQUIRED TO COMPLETE THE WORK IN A NEAT AND WORKMANLIKE MANNER. WORKMANSHIP IS SUBJECT TO APPROVAL BY THE OWNER.
6. OBTAIN AND PAY FOR LICENSES, PERMITS AND INSPECTIONS REQUIRED BY LAW, ORDINANCES AND RULES GOVERNING WORK SPECIFIED HEREIN. ARRANGE INSPECTION OF WORK AS REQUIRED BY THE AUTHORITY HAVING JURISDICITON AND GIVE THE INSPECTORS NECESSARY ASSISTANCE TO COMPLETE THEIR INSPECTION.
7. USE THE DRAWINGS AS A GUIDE FOR QUANTITY, APPROXIMATE EQUIPMENT LOCATIONS AND DESIGN CRITERIA. COORDINATE WORK WITH OTHER TRADES AND ARCHITECTURAL FEATURES TO PROVIDE SYMMETRICAL APPEARANCE. IMMEDIATELY NOTIFY THE OWNER IN WRITING SHOULD CLARIFICATION BE REQUIRED DUE TO A CONFLICT OF QUANTITY, COORDINATION, LOCATION, ETC. THE OWNER'S DECISION IS FINAL AND BINDING. EXTRA COSTS INVOLVED TO COMPLY WITH THE SPECIFICATIONS AND DRAWINGS CAUSED BY A CONFLICT NOT BROUGHT TO THE ATTENTION OF THE OWNER IMMEDIATELY UPON DISCOVERY SHALL BE BORNE BY THE CONTRACTOR UNLESS EXTRA COST IS APPROVED IN WRITING.
8. CONDUCT A SITE VISIT PRIOR TO AWARD OF CONTRACT AND EXAMINE DRAWINGS AND SPECIFICATIONS FOR DISCREPANCIES BETWEEN THIS AND OTHER DIVISIONS OF THE WORK AND EXISTING CONDITIONS. REPORT IN WRITING NO LESS THAN TWO WORK WEEKS PRIOR TO AWARD OF CONTRACT ANY DISCREPANCIES WHICH THE CONTRACTOR BELIEVES ARE CONTRARY TO CODE OR THAT WILL NOT FUNCTION AS SHOWN.
9. OBTAIN SUBMITTALS AND SHOP DRAWINGS OF EQUIPMENT WITH ELECTRICAL CONNECTIONS FURNISHED UNDER OTHER DIVISIONS AND/OR BY THE OWNER AND COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDED.
10. MATERIALS SHALL BE NEW, FULL WEIGHT AND BEAR THE UL LABEL.
11. FURNISH A ONE YEAR GUARANTEE FOR ELECTRICAL MATERIALS AND LABOR. GUARANTEE SHALL COMMENCE AT FINAL PAYMENT. MAKE NECESSARY REPAIRS IN A TIMELY MANNER AT NO COST TO THE OWNER.
12. CONTRACTOR SHALL COORDINATE WORK WITH THE PROJECT MANAGER PRIOR TO BEGINNING WORK.
13. PROVIDE TO THE PROJECT MANAGER, DISRUPTION REQUESTS FOR WORK REQUIRING DISRUPTION. SUBMIT DISRUPTION REQUESTS NOT LESS THAN TWO WEEKS PRIOR TO PROPOSED DISRUPTION.
14. SUBMITTALS AND SHOP DRAWINGS: PROVIDE SUBMITTALS AND SHOP DRAWINGS WITH ENOUGH TIME TO ALLOW FOR A TWO WEEK REVIEW BY ENGINEER PRIOR TO ORDERING PRODUCT OR BEGINNING WORK AND NO LATER THAN TWO WORKING WEEKS AFTER AWARD OF CONTRACT. PROVIDE SUBMITTALS IN ELECTRONIC (PDF) FORMAT. SUBMIT THE FOLLOWING:
    A. PRODUCT INFORMATION:
        i) INDICATE EACH PRODUCT AS "BASIS OF DESIGN", "AS SPECIFIED" OR AS "PROPOSED SUBSTITUTION."
        ii) IDENTIFY CATALOG DESIGNATION AND/OR MODEL NUMBER.
        iii) NEATLY ANNOTATE EACH SALIENT CHARACTERISTIC AND DESIGN OPTIONS OF THE PRODUCT TO DEMONSTRATE COMPLIANCE WITH THE CONTRACT DOCUMENTS TO INCLUDE: SCHEDULED INFORMATION, DRAWING INFORMATION AND SPECIFIED INFORMATION. CLEARLY INDICATE PRODUCT DEVIATIONS FROM THE CONTRACT DOCUMENTS AND MARK OUT NON-APPLICABLE ITEMS ON GENERIC "CUT-SHEETS."
        iv) INCLUDE MANUFACTURER PROVIDED DIMENSIONED EQUIPMENT DRAWINGS WITH MECHANICAL AND ELECTRICAL ROUGH-IN CONNECTIONS.
        v) INCLUDE OPERATIONAL CHARACTERISTICS, PERFORMANCE CURVES AND RATED CAPACITIES.
        vi) INCLUDE MOTOR CHARACTERISTICS AND WIRING DIAGRAMS FOR THE SPECIFIC SYSTEM.
        vii) PROVIDE BASIC MANUFACTURER'S INSTALLATION INSTRUCTIONS.
    B. COMPLETED AS-BUILT FORMS FOR ELECTRICAL DISTRIBUTION EQUIPMENT AFFECTED BY PROJECT WORK. ELECTRICAL DISTRIBUTION EQUIPMENT SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, PANELBOARDS, SWITCHBOARDS, SWITCHGEAR, TRANSFORMERS, ENCLOSED CIRCUIT BREAKERS, MOTORS, BUS PLUGS, DISCONNECTS AND VARIABLE SPEED DRIVES. REQUEST AS-BUILT FORMS FROM THE PROJECT MANAGER.
    C. O&M MANUAL(S) FOR INSTALLED EQUIPMENT 2 WEEKS PRIOR TO SUBSTANTIAL COMPLETION. INFORMATION INCLUDED SHALL BE THE EXACT EQUIPMENT INSTALLED. O&M MANUALS SHALL CONTAIN SUBMITTAL INFORMATION AND INFORMATION NEEDED TO OPERATE AND MAINTAIN SYSTEMS AND EQUIPMENT PROVIDED AND/OR MODIFIED IN THE PROJECT. COORDINATE WITH THE PROJECT MANAGER FOR MINIMUM REQUIREMENTS.
    D. AT COMPLETION PROVIDE RECORD DRAWINGS, UPDATED PANEL SCHEDULES, EQUIPMENT LISTS, TELECOM CIRCUIT LIST AND OTHER AS REQUIRED IN CONTRACT DOCUMENTS.
15. CONTINUALLY RECORD THE ELECTRICAL INSTALLATION ON A SET OF PRINTS READILY AVAILABLE AT THE PROJECT SITE. MARK RECORD DRAWINGS WITH RED ERASABLE PENCIL. ACCURATELY LOCATE WITH DIMENSIONS ELECTRICAL DEVICES WITHIN AREA OF WORK (NEW AND EXISTING). SHOW PHYSICAL DEVICE CIRCUITING, INDICATE DEVICE CIRCUITS, JUNCTION BOX LOCATIONS, CONDUITS OVER 1 INCH IN DIAMETER, SYSTEM DEVICES, AND ELECTRICAL APPURTENANCES.
16. IDENTIFICATION AND LABELING
    A. PROVIDE LAMINATED PLASTIC NAMEPLATES RIVETED OR SCREWED TO THE EQUIPMENT FOR EACH SWITCHBOARD, PANELBOARD, MOTOR CONTROL CENTER, EQUIPMENT ENCLOSURE, MOTOR STARTER, DISCONNECT SWITCH, TRANSFORMER, BUS PLUG AND OTHER DEVICE AS REQUIRED IN CONTRACT DOCUMENTS. NAMEPLATE MATERIAL SHALL BE 0.125 INCH THICK PLASTIC, MINIMUM SIZE OF 1 INCH BY 2.5 INCH WITH MINIMUM LETTER SIZE OF 0.25 INCH. NORMAL POWER SYSTEM - WHITE LETTERS ON BLACK BACKGROUND. EMERGENCY POWER SYSTEM - WHITE LETTERS ON RED BACKGROUND. SEE DRAWINGS FOR EQUIPMENT LABEL TEXT, SUBMIT LIST OF EQUIPMENT NOT LABELED IN DRAWINGS TO ENGINEER FOR LABEL TEXT.
    B. PROVIDE AND POST UPDATED ONE-LINE DRAWINGS FOR ELECTRICAL ROOMS CONTAINING EQUIPMENT INVOLVED WITH PROJECT WORK. OBTAIN UPDATED ONE-LINE DRAWINGS FROM THE PROJECT MANAGER.
    C. IN ACCESSIBLE CEILING SPACES AND EXPOSED UNFINISHED AREAS, USING INDELIBLE MARKING PEN, LABEL CONDUITS 1 INCH OR LARGER WITH PANEL AND CIRCUIT NUMBERS AND PANEL LOCATION OF CONDUCTORS ROUTED THROUGH THE CONDUIT, SIMILAR TO JUNCTION BOX LABELING. LABEL CONDUIT AT 50-FOOT INTERVALS, EXCEPT LABEL EMERGENCY POWER SUPPLY SYSTEM CONDUITS AT 25-FOOT INTERVALS PER NEC 2017 REQUIREMENTS. ADDITIONALLY, LABEL CONDUITS AT WALL PENETRATIONS (BOTH SIDES) AND CONNECTIONS TO PANELS, JUNCTION BOXES, AND OTHER EQUIPMENT SERVED.
17. BASIC MATERIALS AND METHODS
    A. APPLY FIRESTOPPING TO ELECTRICAL PENETRATIONS THROUGH FIRE RATED FLOOR AND WALL ASSEMBLIES TO MAINTAIN FIRE RESISTANCE RATING OF ASSEMBLY.
    B. PROVIDE EZ-PATH FOR HIGH TRAFFIC PENETRATIONS THROUGH FIRE RATED BARRIERS.
    C. COMPLY WITH THE SEISMIC-RESTRAINT REQUIREMENTS OF THE STATE OF ALASKA.
    D. MULTIWIRE BRANCH CIRCUITS SHALL NOT BE USED ON THIS PROJECT. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH ITS OWN DEDICATED NEUTRAL CONDUCTOR.
    E. LOW VOLTAGE WIRING (TELECOM, PUBLIC ADDRESS, CCTV, ACCESS CONTROL, ETC.) IN ACCESSIBLE CEILING SPACE SHALL BE SUPPORTED BY J-HOOKS AND/OR CABLE TRAY AS REQUIRED BY CONTRACT DOCUMENTS. BRIDLE RINGS ARE NOT ACCEPTABLE. CONTRACTOR SHALL REMOVE AND REPLACE BRIDLE RINGS WITHIN AREA OF WORK.
18. EXAMINATION
    A. DRAWINGS INVOLVING EXISTING CONDITIONS ARE BASED ON BUILDING RECORD DRAWINGS AND/OR LIMITED FIELD OBSERVATION. CONDUCT A SITE INSPECTION PRIOR TO SUBMISSION OF BID TO BECOME THOROUGHLY FAMILIARIZED WITH THE SCOPE OF WORK. REPORT DISCREPANCIES TO THE PROJECT MANAGER BEFORE DISTURBING EXISTING INSTALLATION. VERIFY FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS. VERIFY THAT ABANDONED WIRING AND EQUIPMENT SERVE ONLY ABANDONED FACILITIES. BEGINNING OF DEMOLITION IMPLIES CONTRACTOR ACCEPTS EXISTING CONDITIONS.
19. DEMOLITION OF EXISTING ELECTRICAL WORK
    A. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
    B. REMOVE ABANDONED, EXPOSED OR UNUSED WIRING, CONDUIT AND HARDWARE TO SOURCE OF SUPPLY. REMOVE EXPOSED AND ACCESSIBLE CONDUIT TO THE POINT WHERE IT BECOMES INACCESSABLE. CONCEALED CONDUIT WHICH CAN NOT BE REMOVED WITHIN REASON SHALL BE CUT FLUSH AND SURFACE PATCHED AND/OR SEALED AS APPLICABLE.
    C. DISCONNECT AND REMOVE ABANDONED DEVICES WITH ASSOCIATED CONDUIT, WIRE AND HARDWARE AS IDENTIFIED ON DRAWINGS. NOTIFY ENGINEER OF ANY DEVICES NOT SHOWN ON DRAWINGS THAT ARE WITHIN AREA OF WORK. DISCONNECT AND REMOVE ABANDONED PANELBOARDS AND DISTRIBUTION EQUIPMENT. REROUTE CONDUIT, WIRE AND HARDWARE AS NEEDED TO ACCOMMODATE REMOVAL.
    D. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.
    E. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANELS AS APPROPRIATE.
    F. RESTORE CIRCUITS AND SYSTEMS THAT REMAIN THAT ARE AFFECTED IN ANY WAY BY DEMOLITION WORK SUCH AS LOADS DOWNSTREAM OF DEMOLISHED EQUIPMENT, SWITCHED LIGHTING CIRCUITS WHERE SELECTED LIGHT FIXTURES ARE DEMOLISHED, ETC.
    G. PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.
20. MAINTAIN EXISTING SYSTEMS IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR SERVICE. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. PROVIDE DISRUPTION REQUEST AND COORDINATE WITH THE PROJECT MANAGER PRIOR TO DISABLING SYSTEM. CONTRACTOR SHALL NOT BE ENTITLED TO ANY ADDITIONAL COMPENSATION DUE TO INABILITY OF THE PROJECT MANAGER OR THE OWNER TO GRANT AN OUTAGE AT THE DESIRED TIME. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA
21. CLEANING AND REPAIR
    A. CLEAN AND REPAIR EXISTING MATERIALS AND EQUIPMENT WHICH REMAIN OR ARE TO BE REUSED OR ARE AFFECTED BY THIS WORK.
    B. PANELBOARDS: CLEAN EXPOSED SURFACES AND INTERIOR OF CABINET. PROVIDE NEATLY TYPED, FULLY DETAILED BRANCH CIRCUIT DIRECTORY IN PANELS WITH UPDATED LOADS. ODD CIRCUITS ON LEFT, EVEN ON RIGHT.

26 05 19 LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

22. BRANCH CIRCUIT WIRING SHALL BE 600 VOLT INSULATED AND SHALL HAVE THE FOLLOWING INSULATION TYPES:
    A. HEATED INDOOR SPACES - THHN/THWN OR XHHW
    B. OUTDOORS, WET LOCATIONS AND UNHEATED SPACES - XHHW OR XHHW-2
23. FEEDER WIRING SHALL BE 600 VOLT INSULATED AND SHALL HAVE THE FOLLOWING INSULATION TYPES:
    A. HEATED INDOOR SPACES - THHN/THWN OR XHHW-2
    B. OUTDOORS, WET LOCATIONS AND UNHEATED SPACES - XHHW-2
24. CONDUCTORS SHALL BE COPPER, SOLID OR STRANDED FOR WIRING #10 OR SMALLER, STRANDED FOR #8 OR LARGER. MINIMUM SIZE AS FOLLOWS:
    A. #12 AWG FOR BRANCH CIRCUITS.
    B. #16 AWG FOR LIGHTING FIXTURE WHIPS.
25. PROVIDE PROPERLY SIZED AND BONDED GROUNDING CONDUCTORS WITH POWER CIRCUITS.
26. BRANCH CIRCUIT CONDUCTORS SHOWN ON THE DRAWINGS ARE SIZED FOR AMPACITY ONLY UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL INCREASE FEEDER SIZES IF REQUIRED TO PREVENT FEEDER VOLTAGE DROP FROM EXCEEDING 3%. VOLTAGE DROP AT OUTLETS SHALL NOT EXCEED 5%.

26 05 33 RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS

27. CONDUIT TYPES SPECIFICALLY APPROVED FOR USE ON THIS PROJECT SHALL BE OF THE TYPES LISTED HEREIN OR OTHER TYPES SPECIFICALLY IDENTIFIED ON THE DRAWINGS.
28. GALVANIZED RIGID METAL CONDUIT - GRC OR RMC.
    A. LOCATIONS PERMITTED: UNDERGROUND, ENCASED IN CONCRETE, OUTDOORS ABOVEGROUND, DAMP LOCATIONS OR DRY INDOOR LOCATIONS CONCEALED OR EXPOSED.
    B. MINIMUM SIZE: 3/4 INCH.
    C. FITTINGS SHALL BE GALVANIZED STEEL OR IRON AND SHALL BE THREADED. CONDUIT BUSHINGS SHALL BE PROVIDED AND SHALL BE OF THE INSULATED TYPES. WHERE GROUNDING BUSHINGS ARE REQUIRED, PROVIDE INSULATED GROUNDING BUSHINGS WITH INTEGRAL PRESSURE TYPE GROUND LUGS, THOMAS & BETTS "BLACKJACK", OR AS APPROVED.
29. INTERMEDIATE METAL CONDUIT - IMC.
    A. LOCATIONS PERMITTED: OUTDOORS ABOVEGROUND, DAMP LOCATIONS OR DRY INDOOR LOCATIONS CONCEALED OR EXPOSED.
    B. MINIMUM SIZE: 3/4 INCH.
    C. FITTINGS SHALL BE GALVANIZED STEEL OR IRON AND SHALL BE THREADED. CONDUIT BUSHINGS SHALL BE PROVIDED AND SHALL BE OF THE INSULATED TYPES. WHERE GROUNDING BUSHINGS ARE REQUIRED, PROVIDE INSULATED GROUNDING BUSHINGS WITH INTEGRAL PRESSURE TYPE GROUND LUGS, THOMAS & BETTS "BLACKJACK", OR AS APPROVED.
30. ELECTRICAL METALLIC TUBING - EMT
    A. LOCATIONS PERMITTED: DRY INDOOR LOCATIONS CONCEALED OR EXPOSED, WHERE NOT SUSCEPTIBLE TO PHYSICAL DAMAGE.
    B. MINIMUM SIZE: 1/2 INCH.
    C. MAXIMUM SIZE: 3 INCH, EXCEPT WHERE SPECIFICALLY INDICATED ON THE DRAWINGS.
    D. COUPLINGS AND CONNECTORS SHALL BE MADE OF STEEL OR MALLEABLE IRON. DIE-CAST PRODUCTS SHALL NOT BE USED. CONNECTORS SHALL HAVE INSULATED THROATS. CONNECTORS AND COUPLINGS SHALL BE SETSCREW OR COMPRESSION TYPE.
31. FLEXIBLE METAL (STEEL) CONDUIT - FMC OR FLEX.
    A. LOCATIONS PERMITTED: MOTOR AND EQUIPMENT FLEXIBLE CONNECTIONS WHERE INSTALLED IN PLENUM SPACES
    B. MINIMUM SIZE: 1/2 INCH, EXCEPT FIXTURE WHIPS MAY BE 3/8 INCH AS ALLOWED BY THE NEC.
    C. LENGTH OF FMC FOR CONNECTION TO EQUIPMENT SHALL NOT EXCEED 36 INCHES, EXCEPT FOR LIGHTING FIXTURE WHIPS AND WHERE SPECIFICALLY NOTED. FIXTURE WHIPS SHALL NOT EXCEED 72 INCHES.
    D. FITTINGS SHALL BE STEEL OR MALLEABLE IRON. THROATS SHALL BE INSULATED.
32. LIQUID-TIGHT FLEXIBLE STEEL CONDUIT - LFMC.
    A. LOCATIONS PERMITTED: MOTOR AND EQUIPMENT FLEXIBLE CONNECTIONS
    B. MINIMUM SIZE: BE 1/2 INCH, EXCEPT FIXTURE WHIPS MAY BE 3/8 INCH AS ALLOWED BY THE NEC.
    C. LENGTH OF LFMC FOR CONNECTION TO EQUIPMENT SHALL NOT EXCEED 36 INCHES, EXCEPT WHERE SPECIFICALLY NOTED.
    D. FITTINGS SHALL BE STEEL OR MALLEABLE IRON AND SHALL INCORPORATE A THREADED GROUNDING CONE, NYLON OR PLASTIC COMPRESSION RING, AND A TIGHTENING GLAND, PROVIDING A LOW RESISTANCE GROUND CONNECTION. THROATS SHALL BE INSULATED.
33. CAST BOXES WITH THREADED HUBS, EXTERNAL MOUNTING BRACKETS OR HOLES, AND GASKETED COVERS SHALL BE USED IN THE FOLLOWING LOCATIONS:
    A. EXTERIOR LOCATIONS.
    B. WET OR DAMP LOCATIONS.
    C. WHERE EXPOSED TO DAMAGE.
34. GALVANIZED PRESSED STEEL BOXES MAY BE USED WHEREVER THEY ARE PERMITTED BY CODE, EXCEPT IN AREAS INDICATED IN THE PRECEDING PARAGRAPH. FLUSH MOUNTED, PRESSED STEEL BOXES SHALL BE EQUIPPED WITH EXTERNAL MOUNTING BRACKETS FOR ATTACHMENT TO FRAMING MEMBERS WITH SCREWS OR NAILS.
35. CEILING BOXES AND WALL BOXES FOR BRACKET LIGHTS SHALL BE NOT LESS THAN 4 INCH IN DIAMETER BY 1 ¼ INCH DEEP AND SHALL HAVE 3/8 INCH MALLEABLE IRON FIXTURE STUDS IF REQUIRED.
36. IN OCCUPIED AREAS, CONDUIT AND RACEWAYS SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED OTHERWISE. IN SERVICE SPACES (MECHANICAL EQUIPMENT ROOMS, ELECTRICAL ROOMS, STORAGE CLOSETS, ETC.), RACEWAYS MAY BE SURFACE-MOUNTED FOR CONNECTION TO EQUIPMENT.
37. WHERE SPECIFICALLY NOTED ON THE DRAWINGS, RACEWAYS MAY BE MOUNTED ON THE SURFACE OF WALLS AND CEILINGS IN OCCUPIED AREAS. EXPOSED RACEWAYS SHALL BE PAINTED TO MATCH THE SURROUNDING SURFACES.
38. PULL WIRES SHALL BE PROVIDED IN SPARE AND UNUSED CONDUITS. (NYLON "JET-LINE" OR AS APPROVED.)
39. PROVIDE FLEXIBLE CONDUIT CONNECTION AT SEISMIC JOINTS TO ALLOW FOR DISPLACEMENT OF CONDUIT IN ALL THREE AXES. PROVIDE APPROPRIATE LENGTHS OF FLEXIBLE CONDUITS AT SEISMIC JOINTS AND APPROPRIATE AMOUNTS OF SLACK IN CONDUIT TO ALLOW MOVEMENT OF CONDUIT/CABLING IN ACCORDANCE WITH THE DESIGN OF THE SEISMIC JOINT.

26 08 00 ELECTRICAL COMMISSIONING

40. REFER TO GENERAL COMMISSIONING SPECIFICATION SECTION 019113 IN THE PROJECT MANUAL. CONTRACTOR'S COMMISSIONING REPRESENTATIVE (CCR) SHALL OVERSEE THE COMMISSIONING PROCESS IN ACCORDANCE WITH THE PROJECT MANUAL.
41. PROVIDE PERSONNEL, FIELD AND TESTING EQUIPMENT, AND ADDITIONAL SERVICES FOR COMMISSIONING OF ELECTRICAL SYSTEMS. ITEMS TO BE COMMISSIONED INCLUDE LIGHTING SYSTEMS, HANDICAP OPERATORS ON FRONT ENTRY DOORS, DENTAL CHAIRS, DENTAL EXAM LIGHTS, AND THE FIRE ALARM SYSTEM. SCHEDULING OF COMMISSIONING ACTIVITIES SHALL BE COORDINATED WITH OWNER AND ENGINEER THROUGH THE CCR. COMMISSIONING OF EXISTING SYSTEMS AFFECTED BY THIS PROJECT IS INCLUDED.
42. PROVIDE OFFICE AND FIELD SERVICES FOR COMMISSIONING ACTIVITIES, WHICH SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: 1) VERIFICATION OF EQUIPMENT AND SYSTEMS INSTALLED PER CONTRACT DOCUMENTS AND MANUFACTURER'S RECOMMENDATIONS, 2) CLEANING, TESTING, AND STARTUP REPORTS, 3) AHU AND SPECIAL INSPECTION REPORTS, 4) OPERATIONS VERIFICATION, 5) RED LINES OF INSTALLATION AND ANNOTATIONS OF OPERATING CONDITIONS.
43. A LIST OF CHANGES SHALL BE PRODUCED AND UPON SUCCESSFUL DEMONSTRATION DURING A RE-TEST THE SYSTEM WILL BE ACCEPTED AND PLACED UNDER WARRANTY. UPDATE PROGRAMS, DISPLAYS, DRAWINGS, AND RELATED ITEMS FOR INCORPORATION INTO FINAL O&M'S.

26 27 26 WIRING DEVICES

44. WIRING DEVICES SHALL BE 20A, 125V, COMMERCIAL GRADE UNLESS OTHERWISE NOTED IN CONTRACT DOCUMENTS. DEVICES SHALL BE TAMPERPROOF WHERE REQUIRED BY CODE.
45. COLOR OF RECEPTACLES AND SWITCHES SERVED BY NORMAL BRANCH SHALL MATCH EXISTING WIRING DEVICES IN AREA OF WORK. IF NO EXISTING WIRING DEVICES ARE TO REMAIN, WIRING DEVICES SERVED BY THE NORMAL BRANCH SHALL BE IVORY IN COLOR.
46. RECEPTACLES AND SWITCHES SERVED BY LIFE SAFETY BRANCHES SHALL BE RED IN COLOR.
47. THE CATALOG NUMBERS LISTED BELOW ARE THE BASIS OF DESIGN. EQUAL DEVICES MANUFACTURED BY ARROW HART, PASS AND SEYMOUR, LEVITON AND BRYANT ARE ACCEPTABLE.
    A. SINGLE POLE LIGHT SWITCH: HUBBELL WIRING PART NUMBER 1221
    B. THREE-WAY LIGHT SWITCH: HUBBELL WIRING PART NUMBER 1223
    C. NEMA 5-20, 20A, 125V: HUBBELL WIRING PART NUMBER HBL8300
    D. NEMA 5-20, 20A, 125V GFCI: HUBBELL WIRING PART NUMBER GFR8300HST
    E. NEMA 5-20, 20A, 125V TAMPER RESISTANT: HUBBELL WIRING PART NUMBER HBL8300SG
    F. NEMA 5-20, 20A, 125V TAMPER RESISTANT GFCI: HUBBELL WIRING PART NUMBER GFR8300SG
50. DEVICE PLATES SHALL BE SATIN FINISHED 302 STAINLESS STEEL. ENGRAVE BRANCH CIRCUIT DESIGNATION (PANEL AND CIRCUIT NUMBER) ON RECEPTACLE DEVICE PLATES (e.g., "MISA-3").

26 28 00 LOW-VOLTAGE CIRCUIT PROTECTIVE DEVICES

51. FUSIBLE SWITCHES
    A. SWITCHES SHALL HAVE SWITCH BLADES WHICH ARE FULLY VISIBLE IN THE OPEN (OFF) POSITION WHEN THE FUSE ACCESS DOOR IS OPEN. BOLTED PRESSURE CONTACTS SHALL BE MADE BY PROVIDING AN ADDITIONAL PRESSURE OR CLAMPING ACTION AT BOTH ENDS OF THE SWITCH BLADE WHEN THE BLADES ARE FULLY CLOSED. SWITCHES HAVING BUTT-TYPE CONTACTS ARE NOT ACCEPTABLE.
    B. MANUAL OPERATED SWITCHES SHALL HAVE QUICK-MAKE, QUICK-BREAK FRONT OPERATING MECHANISMS.
    C. PROVISIONS FOR LOCKING THE SWITCH IN THE OPEN (OFF) POSITION WITH AT LEAST THREE PADLOCKS SHALL BE PROVIDED. SWITCHES SHALL HAVE DUAL FUSE DOOR INTERLOCK DESIGNED TO PREVENT THE FUSE ACCESS DOOR FROM BEING OPENED WHEN THE SWITCH IS CLOSED (ON) AND PREVENTS THE SWITCH BEING TURNED ON WHILE THE FUSE ACCESS DOOR IS OPEN. A MEANS OF BYPASSING THE INTERLOCK BY AUTHORIZED PERSONNEL SHALL BE PROVIDED TO ALLOW THE SWITCH TO BE INSPECTED IN THE CLOSED POSITION.
52. MOLDED CASE CIRCUIT BREAKERS
    A. WHERE INSTALLED IN AN EXISTING PANELBOARD, CIRCUIT BREAKER SHALL BE OF THE SAME MANUFACTURER AS PANELBOARD AND LISTED FOR USE IN EXISTING PANELBOARD. RATINGS SHALL BE AS SHOWN ON PANEL SCHEDULES AND/OR DRAWINGS.
    B. CIRCUIT BREAKERS SHALL HAVE A PERMANENT TRIP UNIT CONTAINING INDIVIDUAL THERMAL AND MAGNETIC TRIP ELEMENTS IN EACH POLE.
    C. AMPERAGE INTERRUPT RATING SHALL BE EQUAL TO OR GREATER THAN THE SHORT CIRCUIT CURRENT RATING OF THE PANEL AND CLEARLY POSTED WITHOUT REMOVAL OF PANEL COVER. SERIES RATING SHALL BE ALLOWED ONLY BY APPROVAL OF ENGINEER OR AS INDICATED IN CONTRACT DOCUMENTS.
    D. EQUIPMENT PROTECTION DEVICE BREAKER TYPE (EPD) SHALL BE 30mA TRIP.

26 29 00 LOW VOLTAGE CONTROLLERS

53. AC FRACTIONAL HORSEPOWER MANUAL STARTERS
    A. PROVIDE MANUAL STARTERS FOR FRACTIONAL HORSEPOWER MOTORS CONSISTING OF A MANUALLY OPERATED TOGGLE SWITCH EQUIPPED WITH RED PILOT LIGHT AND MELTING ALLOY TYPE THERMAL OVERLOAD RELAY.
    B. THERMAL UNIT SHALL BE ONE PIECE CONSTRUCTION AND INTERCHANGEABLE. STARTER SHALL BE INOPERATIVE IF THERMAL UNIT IS REMOVED.
54. AC COMBINATION STARTERS WITH FUSIBLE DISCONNECT SWITCH OR CIRCUIT BREAKER
    A. COMBINATION STARTERS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE LATEST PUBLISHED NEMA STANDARDS, SIZES AND HORSEPOWER RATINGS.
    B. COMBINATION STARTERS WITH DISCONNECT SWITCH SHALL CONSIST OF A VISIBLE BLADE DISCONNECT SWITCH AND A MOTOR STARTER.
    C. COMBINATION STARTERS SHALL BE MOUNTED IN NEMA 1 GENERAL PURPOSE ENCLOSURES UNLESS OTHERWISE INDICATED ON THE PLANS OR REQUIRED BY THE CONDITIONS OF THE AREA IN WHICH THEY ARE INSTALLED.
    D. THE DISCONNECT HANDLE USED ON COMBINATION STARTERS SHALL ALWAYS BE IN CONTROL OF THE DISCONNECT DEVICE WITH THE DOOR OPENED OR CLOSED. THE DISCONNECT HANDLE SHALL BE CLEARLY MARKED AS TO WHETHER THE DISCONNECT DEVICE IS "ON" OR "OFF".

26 50 00 LIGHTING

55. LIGHTING FIXTURES SHALL COMPLY WITH THE REQUIREMENTS OF N.E.C. ARTICLE 410. PROVIDE LIGHTING FIXTURES IN ACCORDANCE WITH LIGHTING FIXTURE SCHEDULE. PROVIDE SAFETY HANGAR WIRES FOR FIXTURES, AS FOLLOWS:
    A. PROVIDE SAFETY WIRES (A MINIMUM OF TWO 12 GAUGE HANGERS) OR EQUIVALENT CHAINS FOR EACH LIGHT FIXTURE WEIGHING LESS THAN 56 POUNDS INSTALLED IN T-BAR OR OTHER CEILING SUSPENSION SYSTEMS. SAFETY WIRES AND CHAINS SHALL BE SECURELY ATTACHED TO DIAGONALLY OPPOSITE CORNERS OF EACH FIXTURE AND TO STRUCTURE. FIXTURES WEIGHING 56 POUNDS OR MORE SHALL BE SUPPORTED FROM STRUCTURE.
    B. SURFACE MOUNTED LIGHTING FIXTURES SUPPORTED FROM T-BAR GRID SHALL BE ATTACHED TO THE GRID WITH A POSITIVE CLAMP DEVICE THAT COMPLETELY SURROUNDS THE SUPPORTING MEMBER SIMILAR TO CADDY "IDS". PROVIDE SAFETY WIRES AS SPECIFIED IN THE FOREGOING.
    C. PROVIDE SAFETY WIRES (A MINIMUM OF TWO 12 GAUGE HANGERS) OR EQUIVALENT AIRCRAFT CABLE FOR EACH PENDANT MOUNTED FIXTURE. HANGARS OR CABLE SHALL BE SECURELY ATTACHED TO FIXTURE, THEN ROUTED THROUGH STEM AND SECURELY ATTACHED TO STRUCTURE.
56. PROVIDE BALLAST/DRIVER DISCONNECTING MEANS IN ACCORDANCE WITH NEC ARTICLE 410.

27 20 00 TELECOM DISTRIBUTION SYSTEM

57. MINIMUM SIZE FOR CONDUIT RUNS TO TELECOMMUNICATIONS OUTLETS SHALL BE 1 INCH AND UNLESS OTHERWISE INDICATED ON THE DRAWINGS SHALL SERVE NO MORE THAN ONE TELECOMMUNICATIONS OUTLET.
58. AT MINIMUM, PROVIDE A 1 INCH DIAMETER CONDUIT FROM EACH TELECOM OUTLET LOCATION STUBBED TO ACCESSIBLE CEILING SPACE OR CABLE TRAY AS APPLICABLE. PROVIDE INSULATED BUSHING ON CONDUIT STUB. PROVIDE NYLON PULL-CORD WITH NOT LESS THAN 200-POUND TENSILE STRENGTH IN EACH CONDUIT WITH 5 FEET OF EXCESS COILED AT EACH END.
59. HORIZONTAL CABLING SHALL BE 4-PAIR, CATEGORY 6, PLENUM RATED, AND COLOR CODED AS FOLLOWS: GENERAL TELECOM (BLUE), WIRELESS (GREEN), AND NURSE CALL & PATIENT MONITORING (BRIGHT LIME GREEN). QUANTITIES AS SHOWN IN DRAWINGS. NO FACTORY OR OTHER SPLICES ALLOWED.
60. TELECOM CABLE TOTAL HORIZONTAL LENGTH SHALL NOT EXCEED 300 FEET WITH THE TOTAL AGGREGATE LENGTH FROM ACTIVE NODE TO USER DEVICE NOT TO EXCEED 330 FEET.
61. TERMINATE CABLE AT PATCH PANEL IN TELECOM CLOSET AND ON TELECOM OUTLET JACK AT POINT OF USE, COORDINATE WITH INFORMATION SERVICES PROJECT MANAGER FOR ADDITIONAL REQUIREMENTS.
62. BOXES FOR TELECOMMUNICATION OUTLETS SHALL BE A MINIMUM OF 4 INCHES SQUARE BY 2 1/8 INCHES DEEP. DEVICE RINGS FOR TELECOMMUNICATION OUTLETS SHALL BE SIN

PANEL SCHEDULE – 'LA' 208Y/120 VOLTS, 3–PH, 4–W 225 AMP LUG	NEMA 1 FLUSH MOUNTED A.I.R. TO MATCH EXISTING CIRCUIT BREAKERS							EXISTING PANEL
CIRCUIT DESCRIPTION	KVA	AMP	POLE	ABC	KVA	AMP	POLE	CIRCUIT DESCRIPTION
REC	1.40	20	1	1+--2	0.90	20	1	REC
REC	1.40	20	1	3--+-4	0.90	20	1	REC
REC	1.40	20	1	5--+6	1.10	20	1	REC
REC	1.40	20	1	7+--8	0.90	20	1	REC: ROOM 109A
REC	1.40	20	1	9--+-10	0.70	20	1	REC: ROOM 109A REFRIGERATOR
REC	1.40	20	1	11--+12	0.90	20	1	REC: ROOM 109A
REC	1.40	20	1	13+--14	**0.72**	20	1	**& REC: NURSES STATION 117 S. E. WALL &**
REC	1.40	20	1	15--+-16	1.10	20	1	REC: ROOM 122/123
REC	1.40	20	1	17--+18	**0.72**	20	1	**& REC: NURSES STATION 117 S. W. WALL &**
REC	1.40	20	1	19+--20	0.72	20	1	* REC: MED RECORDS 105, ENVIRO SVCS 137 *
REC: RMS 102/107B/ENTRY DOOR OPERATOR	0.70	20	1	21--+-22	0.54	20	1	* REC: OFFICE 105 *
REC	1.10	20	1	23--+24	1.20	20	1	EQUIP. 125
REC	1.10	20	1	25+--26	0.90	20	1	EQUIP. FILM PROCESSOR
REC	1.10	20	1	27--+-28	0.60	20	1	EF–2, P–1
REC	1.10	20	1	29--+30	**0.72**	20	1	**$ REC: CLEAN 108 $**
$ REC: SOILED 109 $	**0.72**	20	1	31+--32	**0.72**	20	1	**$ REC: EXAM 12 111–L $**
% REC: TALKING 107 %	**0.54**	**20**	**1**	33--+-34	1.20	20	1	KITCHEN MICROWAVE, ROOM 125
* REC: RECEPTION 103 COMPUTERS *	0.72	20	1	35--+36	**0.36**	20	1	**# REC: STOR. 110 N., E. WALLS #**
* REC: RECEPTION 103 COMPUTERS *	0.72	20	1	37+--38	18.66	50	3	PANEL LB
* REC: RECEPTION 103 COMPUTERS *	0.72	20	1	39--+-40	---	--	--	---
* REC: RECEPTION 103 PRINTERS *	0.72	20	1	41--+42	---	--	--	---

TOTAL CONNECTED LOADS – A 19.2 KVA — 42 POLE SPACES USED
" – B 18.5 "
" – C 19.1 "
" – ALL 56.8 " = 158 AMPS @ 208 VOLTS, 3–PHASE
TOTAL LOAD WITH NEC FACTORS 56.8 " = 158 AMPS

LOADS AND CIRCUIT BREAKERS ARE EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.
* CIRCUIT MODIFIED UNDER PHASE 1 OF THIS PROJECT *
% EXISTING LOAD AND CIRCUIT BREAKER DEMOLISHED AND NEW LOAD CONNECTED TO CIRCUIT BREAKER PROVIDED IN SPACE CREATED %
$ EXISTING LOAD DEMOLISHED AND NEW LOAD CONNECTED TO EXISTING CIRCUIT BREAKER $
 # NEW LOAD CONNECTED TO EXISTING SPARE CIRCUIT BREAKER #
& EXISTING LOAD PARTIALLY DEMOLISHED AND NEW LOAD ADDED TO EXISTING CIRCUIT &

PANEL SCHEDULE – 'LE' 208Y/120 VOLTS, 3–PH, 4–W 100 AMP MAIN BREAKER	NEMA 1 SURFACE MOUNTED PROVIDE CIRCUIT BREAKERS WITH 10K A.I.R.							PANEL PROVIDED UNDER PHASE 1 OF THIS CONTRACT
CIRCUIT DESCRIPTION	KVA	AMP	POLE	ABC	KVA	AMP	POLE	CIRCUIT DESCRIPTION
DENTAL AIR COMPRESSOR – MECHANICAL 184	2.50	20	2	1+--2	–	20	1	SPARE
---	---	--	--	3--+-4	0.02	15	1	EF–14 – MED GAS STORAGE
DC–1 (EXTERIOR)	2.52	15	3	5--+6	0.99	15	1	EF–13,15, AND RECEPT (ROOF)
---	---	--	--	7+--8	0.70	15	1	EF–12 (1/4HP) – ROOF
---	---	--	--	9--+-10	1.15	20	1	@ UH–1, EF–8 & EF–9 @
CH–1 (EXTERIOR)	11.16	50	3	11--+12	0.81	15	1	FCU–1,2 (1/8HP) – RMS 171, 167
---	---	--	--	13+--14	0.72	15	1	FCU–3 (1/8HP) – RECEPTION 103
---	---	--	--	15--+-16	**0.36**	**15**	**1**	**$ FCU–4 (1/8HP) HALL 144B $**
$ REC: HSKP 115, STORAGE 116 $	**0.54**	**20**	**1**	17--+18	**0.58**	**15**	**1**	**$ FCU–5 NURSE STATION 117, FCU–6 ICT 117 $**
$ REC: EXAM 11 111–K $	**0.72**	**20**	**1**	19+--20	**0.72**	**20**	**1**	**$ REC: NURSE STATION 117 N.W. WALL $**
$ REC: CORR 106–B, 106–C $	**0.36**	**20**	**1**	21--+-22	**0.72**	**20**	**1**	**$ REC: NURSE STATION 117 N.E. WALL $**
SPACE	–	–	–	23--+24	**0.36**	**20**	**1**	**$ REC: ICT 117 W. WALL N. TABLE $**
SPACE	–	–	–	25+--26	**0.36**	**20**	**1**	**$ REC: ICT 117 W. WALL S. TABLE $**
SPACE	–	–	–	27--+-28	**0.36**	**20**	**1**	**$ REC: ICT 117 E. WALL N. TABLE $**
SPACE	–	–	–	29--+30	**0.36**	**20**	**1**	**$ REC: ICT 117 E. WALL S. TABLE $**
SPACE	–	–	–	31+--32	–	–	–	SPACE
SPACE	–	–	–	33--+-34	–	–	–	SPACE
SPACE	–	–	–	35--+36	–	–	–	SPACE
SPACE	–	–	–	37+--38	2.50	60	3	PANEL SHOP
SPACE	–	–	–	39--+-40	---	--	--	---
SPACE	–	–	–	41--+42	---	--	--	---

TOTAL CONNECTED LOADS – A 9.9 KVA — 29 POLE SPACES USED
" – B 9.6 "
" – C 9.0 "
" – ALL 28.5 " = 79 AMPS @ 208 VOLTS, 3–PHASE
TOTAL LOAD WITH NEC FACTORS 31.3 " = 87 AMPS

PANEL, CIRCUIT BREAKERS, AND LOADS ARE PROVIDED/MODIFIED UNDER PHASE 1 OF THIS PROJECT, UNLESS OTHERWISE NOTED
$ NEW LOAD CONNECTED TO CIRCUIT BREAKER PROVIDED IN EXISTING SPACE $



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SEARHC ALICIA ROBERTS MEDICAL CLINIC

NWA 1644
KLAWOCK, ALASKA

SHEET TITLE:
PANEL SCHEDULES

CHECKED KAC
DRAWN TRC/TDD

RFP-01 ARMC PHASE 2 SCOPE ADDITION

SHEET # E0.3A
PLOT DATE 4/2/2018
ISSUE DATE 04/3/2018

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SHEET NOTES

1. BOUNDARY SHOWS GENERAL LIMITS OF WORK AREA, BUT SPECIFIC ITEMS OR SYSTEMS MAY EXTEND BEYOND THIS GENERAL BOUNDARY. SOME ROOMS WITHIN THE BOUNDARY MAY NOT HAVE WORK IN THEM AND SHALL REMAIN AS IS.
2. EXISTING CONDITIONS ARE BASED UPON ORIGINAL CONSTRUCTION DRAWINGS DATED 1994 AND BUILDING ADDITION DRAWINGS DATED 7-29-2003 AND LIMITED FIELD OBSERVATIONS. FIELD VERIFY.
3. RELOCATE EXISTING DVR, CRT, AND ASSOCIATED CCTV RACK MOUNTED ACTIVE EQUIPMENT FROM EXISTING TWO POST RACK TO THE EXISTING ADJACENT FOUR POST RACK LOCATED IN THE EXISTING TELECOM ROOM. PROVIDE RACK MOUNTED SHELF FOR CRT AS REQUIRED.



1 E1.0A OVERALL DEMOLITION PLAN - ELECTRICAL

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

0 4' 8' 16' 24'

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KLAWOCK, ALASKA

SHEET TITLE:
OVERALL DEMOLITION PLAN - ELECTRICAL

CHECKED KAC
DRAWN TRC/TDD

SHEET # E1.0A
PLOT DATE 4/2/2018
ISSUE DATE 04/3/2018

RFP-01 ARMC PHASE 2 SCOPE ADDITION



SHEET NOTES

1. DEVICES ARE EXISTING TO REMAIN, UON.
2. DEMOLISH LIGHT SWITCH AND DEMOLISH ASSOCIATED CONDUIT AND BRANCH CIRCUIT BACK TO JUNCTION BOX LOCATED IN ACCESSIBLE CEILING SPACE OR LAST DEVICE TO REMAIN AND MAKE SAFE. RETAIN EXISTING CIRCUIT FOR REUSE IAW SHEET E2.4.
3. DEMOLISH LIGHTING FIXTURE AND DEMOLISH ASSOCIATED CONDUIT AND BRANCH CIRCUIT BACK TO JUNCTION BOX LOCATED IN ACCESSIBLE CEILING SPACE OR LAST DEVICE TO REMAIN AND MAKE SAFE. RETAIN EXISTING CIRCUIT FOR REUSE IAW SHEET E2.4.
4. APPROXIMATE LOCATION OF NEW SKY LIGHT. REMOVE AND RELOCATE CONDUIT, CABLING, AND ELECTRICAL DEVICES OR EQUIPMENT FROM WITHIN THIS AREA. INTERCEPT, EXTEND, RECONNECT AS REQUIRED.

1 E1.2 DEMOLISH PLAN – LIGHTING

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

0 2' 4' 8' 12'

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SHEET TITLE:
DEMOLITION PLAN
- LIGHTING

CHECKED KAC
DRAWN TRC/TDD

SHEET # E1.2
PLOT DATE 4/2/2018
ISSUE DATE 04/3/2018

SHEET NOTES

1. DEVICES ARE EXISTING TO REMAIN, UON.
2. POWER DEVICES ARE CONNECTED TO PANEL LA, UON.
3. DEMOLISH RECEPTACLE AND ASSOCIATED CONDUIT AND CONDUCTORS BACK TO SOURCE PANEL AND MAKE SPARE OR TO LAST DEVICE TO REMAIN AND MAKE SAFE.
4. APPROXIMATE LOCATION OF NEW SKY LIGHT. REMOVE AND RELOCATE CONDUIT, CABLING, AND ELECTRICAL DEVICES OR EQUIPMENT FROM WITHIN THIS AREA. INTERCEPT, EXTEND, RECONNECT AS REQUIRED.
5. DEMOLISH EXISTING RECEPTACLE AND RETAIN CIRCUIT FOR REUSE IN ACCORDANCE WITH SHEET E2.5.
6. REPLACE EXISTING NON-GFCI RECEPTACLE WITH A GFCI RECEPTACLE. IN ACCORDANCE WITH SHEET E2.5.

1 E1.3 DEMOLITION PLAN – POWER
SCALE: 1/4" = 1'-0"

0 2' 4' 8' 12'

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KLAWOCK, ALASKA

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SHEET TITLE:
DEMOLITION PLAN - POWER

CHECKED KAC
DRAWN TRC/TDD

SHEET # E1.3
PLOT DATE 4/2/2018
ISSUE DATE 04/3/2018



SHEET NOTES

1. DEVICES ARE EXISTING TO REMAIN, UON.
2. REMOVE EXISTING NURSE CALL DEVICE AND RETAIN FOR REINSTALLATION IAW SHEET E2.6.
3. DEMOLISH TELECOM OUTLET AND ASSOCIATED TELECOM HORIZONTAL CABLING BACK TO EXISTING PATCH PANEL IN TELECOM 158 AND MAKE SPARE.
4. REMOVE AND RETAIN EXISTING CEILING MOUNTED DEVICES FOR REINSTALLATION IAW SHEET E2.6.
5. REMOVE EXISTING FIRE ALARM DEVICE AND RETAIN FOR REINSTALLATION IAW SHEET E2.6.
6. APPROXIMATE LOCATION OF NEW SKY LIGHT. REMOVE AND RELOCATE CONDUIT, CABLING, AND ELECTRICAL DEVICES OR EQUIPMENT FROM WITHIN THIS AREA. INTERCEPT, EXTEND, RECONNECT AS REQUIRED.

1 E1.4 DEMOLITION PLAN – SPECIAL SYSTEMS

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

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SHEET TITLE:
DEMOLITION PLAN - SPECIAL SYSTEMS

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SHEET # E1.4
PLOT DATE 4/2/2018
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SHEET NOTES

1. BOUNDARY SHOWS GENERAL LIMITS OF WORK AREA, BUT SPECIFIC ITEMS OR SYSTEMS MAY EXTEND BEYOND THIS GENERAL BOUNDARY SUCH AS CABLE TRAY. PROVIDE IN ACCORDANCE WITH SHEET NOTE 3. SOME ROOMS WITHIN THE BOUNDARY MAY NOT HAVE WORK IN THEM AND SHALL REMAIN AS IS.
2. EXISTING CONDITIONS ARE BASED UPON ORIGINAL CONSTRUCTION DRAWINGS DATED 1994 AND BUILDING ADDITION DRAWINGS DATED 7-29-2003 AND LIMITED FIELD OBSERVATIONS. FIELD VERIFY.
3. PROVIDE CABLE TRAY ABOVE ACCESSIBLE CEILING SPACE AS INDICATED. CABLE TRAY SHALL BE BY CABLOFIL, FLEXTRAY OR AN APPROVED EQUAL. ALL FITTINGS TO BE MANUFACTURED BY THE CABLE TRAY MANUFACTURER.



1 E2.0A — OVERALL PLAN – ELECTRICAL

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

0 4' 8' 16' 24'

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SHEET TITLE:
OVERALL PLAN - ELECTRICAL

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SHEET NOTES

1. LIGHTING IS EXISTING TO REMAIN UON.
2. CONNECT LIGHTING FIXTURE TO EXISTING LOCAL NORMAL LIGHTING CIRCUIT RETAINED IAW SHEET E1.2. PROVIDE CONTROL OF LIGHT FIXTURE VIA EXISTING ROOM SWITCH, OR SWITCH PROVIDED IAW SHEET NOTE 5.
3. CONNECT NIGHT LIGHT LIGHTING FIXTURE OR EXIT SIGN TO EXISTING LOCAL UNSWITCHED LIGHTING CIRCUIT.
4. CONNECT NON-NIGHT LIGHT LIGHTING FIXTURES IN CORRIDORS TO EXISTING SWITCHED LIGHTING CIRCUIT.
5. PROVIDE LIGHT SWITCH AT LOCATION SHOWN. PROVIDE DIMMING AND/OR ZONING AS INDICATED ON SWITCH.

1 E2.4 FLOOR PLAN – LIGHTING

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

0 2' 4' 8' 12'

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SEARHC ALICIA ROBERTS MEDICAL CLINIC

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KLAWOCK, ALASKA

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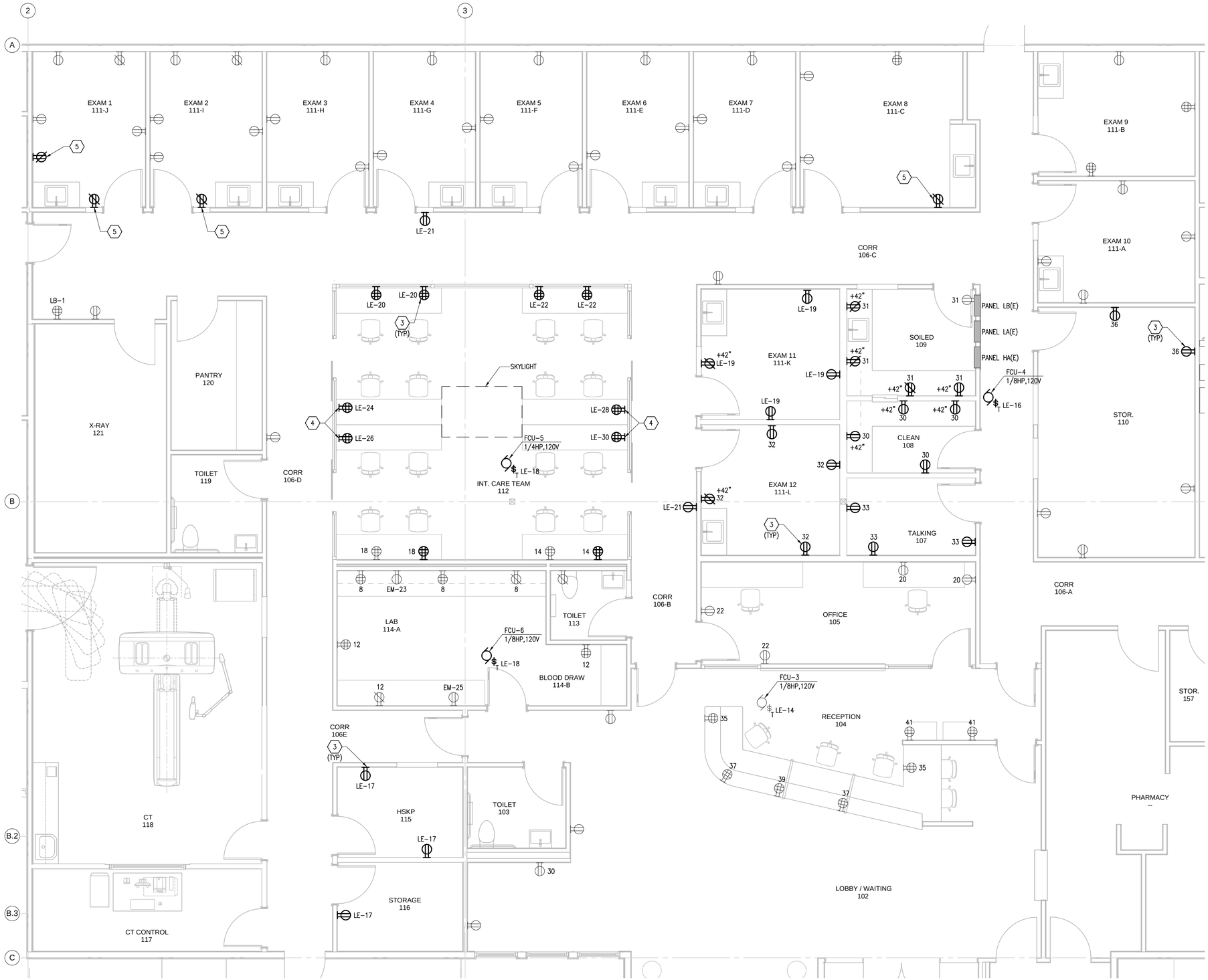
SHEET TITLE:
FLOOR PLAN - LIGHTING

CHECKED KAC
DRAWN TRC/TDD

SHEET # E2.4
PLOT DATE 4/2/2018
ISSUE DATE 04/3/2018

SHEET NOTES

1. DEVICES ARE EXISTING TO REMAIN, UON.
2. CONNECT DEVICES TO EXISTING PANEL LA, CIRCUIT AS NOTED, UON.
3. PROVIDE RECEPTACLE AT LOCATION AND CONNECT TO CIRCUIT NOTED.
4. COORDINATE CONNECTIONS WITH MODULAR FURNITURE PROVIDER, CIRCUIT AS NOTED.
5. PROVIDE GFCI RECEPTACLE AND CONNECT TO EXISTING CIRCUIT.



1 E2.5 FLOOR PLAN – POWER

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

0 2' 4' 8' 12'

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STATE OF ALASKA 49TH
Keith A. Confer
4/2/2018
EE-11391
REGISTERED PROFESSIONAL ENGINEER

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www.northwindarch.com

1" ACTUAL

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

SEARHC ALICIA ROBERTS MEDICAL CLINIC

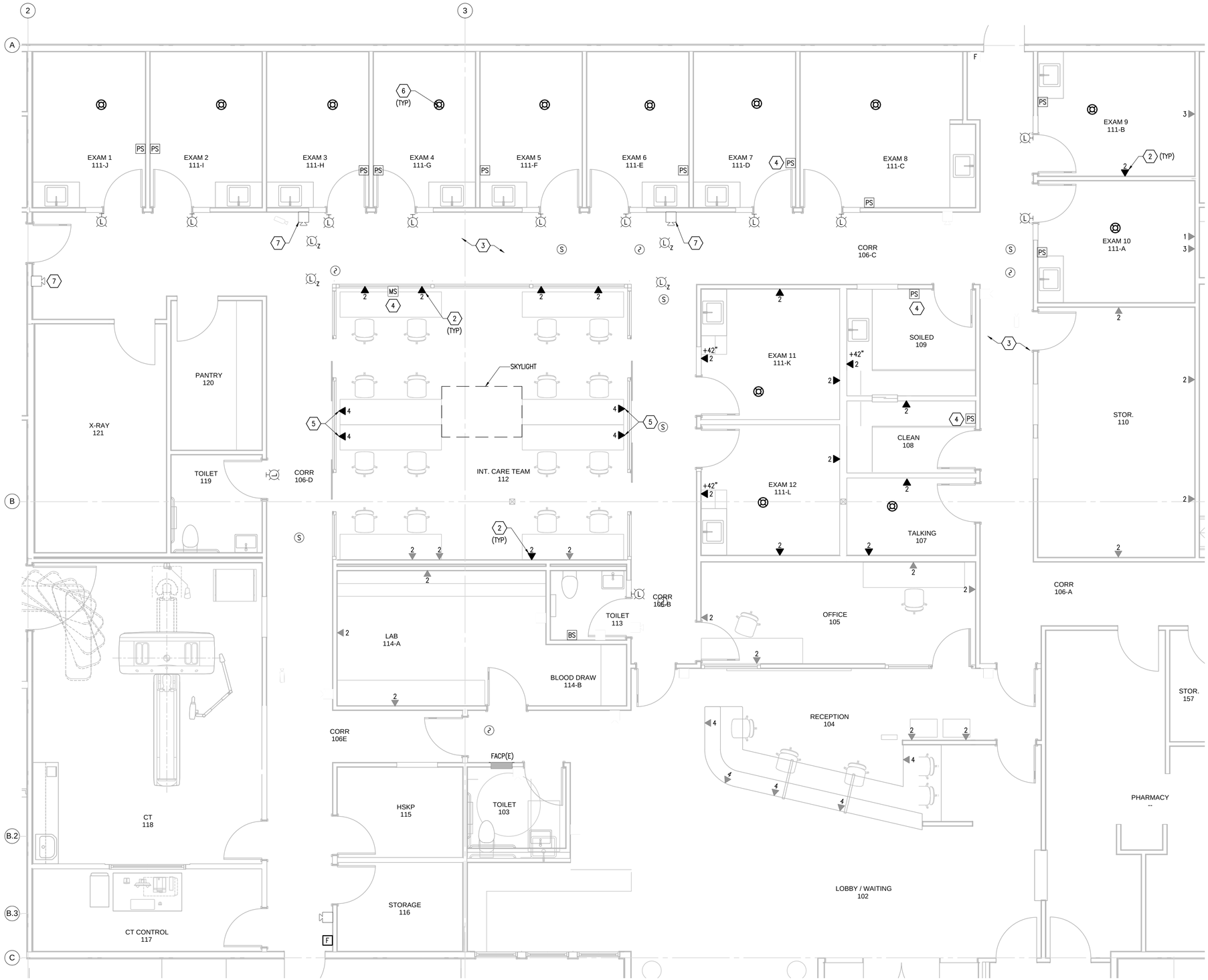
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RFP-01 ARMC PHASE 2 SCOPE ADDITION

SHEET TITLE: FLOOR PLAN - POWER

CHECKED KAC
DRAWN TRC/TDD

SHEET # E2.5
PLOT DATE 4/2/2018
ISSUE DATE 04/3/2018



SHEET NOTES

1. DEVICES ARE EXISTING TO REMAIN, UON.
2. PROVIDE TELECOM OUTLET WITH NUMBER OF PORTS INDICATED AT LOCATION INDICATED AND ROUTE TELECOM HORIZONTAL CABLING TO TELECOM 158 AND TERMINATE ON SPARE PORT IN EXISTING PATCH PANEL.
3. REINSTALL CEILING MOUNTED DEVICES RETAINED UNDER DEMOLITION PORTION OF THIS CONTRACT. RECONNECT DEVICES TO EXISTING CIRCUITS, INTERCEPT AND EXTEND CIRCUITS AS REQUIRED.
4. REINSTALL EXISTING NURSE CALL DEVICE AT LOCATION INDICATED. INTERCEPT, EXTEND, AND RECONNECT AS REQUIRED. REFER TO SHEET E1.4 FOR ADDITIONAL INFORMATION.
5. COORDINATE CONNECTIONS WITH MODULAR FURNITURE PROVIDER.
6. PROVIDE FIRE ALARM HORN/STROBE AT LOCATION INDICATED. STROBES ARE 15 CANDELA UON.
7. REINSTALL FA DEVICE REMOVED IAW SHEET E1.4.

1 E2.6 FLOOR PLAN – SPECIAL SYSTEMS

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

0 2' 4' 8' 12'

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NWA 1644
KLAWOCK, ALASKA

SHEET TITLE:
FLOOR PLAN - SPECIAL SYSTEMS

CHECKED KAC
DRAWN TRC/TDD

RFP-01 ARMC PHASE 2 SCOPE ADDITION

SHEET # E2.6
PLOT DATE 4/2/2018
ISSUE DATE 04/3/2018