SINGLE DUCT AIR TERMINAL UNIT SCHEDULE - AC-10/EF-10

MARK	LOCATION	AREA AND/OR RM SERVED	PHASE	SYSTEM AIR HANDLING	SIZE (DIA.)	AIR FLOW OCC CFM	AIR FLOW UNOCC CFM	ADDITIONAL SOUND ATTENUATION REQUIRED	CONTROL TYPE	CONTROL SEQUENCE	TUS - MOUNTED REHEAT COIL (BASIS OF DESIGN: PRICE SDV OR APPROVED EQUAL) RHC MARK	RHC AIRFLOW	MBH	HW (GPM)	ENTERING WATER TEMP	LEAVING WATER TEMP	ENTERING AIR TEMP	TARGET LEAVING AIR TEMP	MAX. AIR PD	MAX. WATER SIDE PD	NO. OF ROWS OF COILS	COIL DIMENSION WIDTH (IN)	COIL DIMENSION HEIGHT (IN)	MAX FPI	RADIANT PERIMETER CEILING HEAT	BASIS OF DESIGN (OR APPROVED EQUAL)	REMARKS
1S-TUS-10-001	3RD FLR -	CLEAN - 3B-174	4A	1S-AC-10	4	150	150	SEE SPECS	DDC-1	CV	1-HWC-10-001	150	6.5	0.6	180	160	55	95	0.5	1.5	x	xx	xx	8	-	PRICE SDV	-
1S-TUS-10-002	3RD FLR -	CORR, CRASH, NOURISH - C3-7, C3-7.1,7.2,7.3,7.4	4A	1S-AC-10 / EF-10	14	2,050	1,200	SEE SPECS	DDC-2	CV, OCC/UNOC	1-HWC-10-002	2050	88.6	8.9	180	160	55	95	0.5	1.5	x	xx	xx	8	-	PRICE SDV	-
1S-TUE-10-002	3RD FLR -	CORR, CRASH, NOURISH - C3-7, C3-7.1,7.2,7.3,7.4	4A	1S-AC-10 / EF-10	10	1,200	350	SEE SPECS	DDC-2	CV, OCC/UNOC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PRICE SDV	-
1S-TUE-10-003	3RD FLR -	SOILED - 3B-182	4A	1S-EF-10	4	150	150	SEE SPECS	DDC-1A	CV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PRICE SDV	-
1S-TUS-10-004	3RD FLR -	PRE-OP - 3B-183	4A	1S-AC-10 / EF-10	5	200	100	SEE SPECS	DDC-2	CV, OCC/UNOC	1-HWC-10-004	200	8.6	0.9	180	160	55	95	0.5	1.5	x	xx	xx	8	-	PRICE SDV	-
1S-TUE-10-004	3RD FLR -	PRE-OP - 3B-183	4A	1S-AC-10 / EF-10	5	200	100	SEE SPECS	DDC-2	CV, OCC/UNOC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PRICE SDV	-
1S-TUS-10-005	3RD FLR -	PRE-OP - 3B-185	4A	1S-AC-10 / EF-10	5	250	150	SEE SPECS	DDC-2	CV, OCC/UNOC	1-HWC-10-005	250	10.8	1.1	180	160	55	95	0.5	1.5	x	xx	xx	8	-	PRICE SDV	-
1S-TUE-10-005	3RD FLR -	PRE-OP - 3B-185	4A	1S-AC-10 / EF-10	5	250	150	SEE SPECS	DDC-2	CV, OCC/UNOC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PRICE SDV	-
1S-TUS-10-006	3RD FLR -	PRE-OP - 3B-186	4A	1S-AC-10 / EF-10	5	200	100	SEE SPECS	DDC-2	CV, OCC/UNOC	1-HWC-10-006	200	8.6	0.9	180	160	55	95	0.5	1.5	x	xx	xx	8	-	PRICE SDV	-
1S-TUE-10-006	3RD FLR -	PRE-OP - 3B-186	4A	1S-AC-10 / EF-10	5	200	100	SEE SPECS	DDC-2	CV, OCC/UNOC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PRICE SDV	-
1S-TUS-10-007	3RD FLR -	STORAGE - 3B-187	4A	1S-AC-10 / EF-10	4	150	100	SEE SPECS	DDC-2	CV, OCC/UNOC	1-HWC-10-007	150	6.5	0.6	180	160	55	95	0.5	1.5	x	xx	xx	8	-	PRICE SDV	-
1S-TUE-10-007	3RD FLR -	STORAGE - 3B-187	4A	1S-AC-10 / EF-10	4	150	100	SEE SPECS	DDC-2	CV, OCC/UNOC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PRICE SDV	-
1S-TUS-10-008	3RD FLR -	LOUNGE - 3B-200	4A	1S-AC-10 / EF-10	5	250	150	SEE SPECS	DDC-3	CV, OCC/UNOC	1-HWC-10-008	250	10.8	1.1	180	160	55	95	0.5	1.5	x	xx	xx	8	-	PRICE SDV	-
1S-TUE-10-008	3RD FLR -	LOUNGE - 3B-200	4A	1S-AC-10 / EF-10	6	350	250	SEE SPECS	DDC-3	CV, OCC/UNOC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PRICE SDV	-
1S-TUS-10-009	3RD FLR -	PRE-OP - 3B-190	4A	1S-AC-10 / EF-10	5	250	150	SEE SPECS	DDC-2	CV, OCC/UNOC	1-HWC-10-009	250	10.8	1.1	180	160	55	95	0.5	1.5	x	xx	xx	8	-	PRICE SDV	-
1S-TUE-10-009	3RD FLR -	PRE-OP - 3B-190	4A	1S-AC-10 / EF-10	5	250	150	SEE SPECS	DDC-2	CV, OCC/UNOC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PRICE SDV	-
1S-TUS-10-010	3RD FLR -	PRE-OP - 3B-191	4A	1S-AC-10 / EF-10	5	200	100	SEE SPECS	DDC-2	CV, OCC/UNOC	1-HWC-10-010	200	8.6	0.9	180	160	55	95	0.5	1.5	x	xx	xx	8	-	PRICE SDV	-
1S-TUE-10-010	3RD FLR -	PRE-OP - 3B-191	4A	1S-AC-10 / EF-10	5	200	100	SEE SPECS	DDC-2	CV, OCC/UNOC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PRICE SDV	-
1S-TUS-10-011	3RD FLR -	PRE-OP - 3B-192	4A	1S-AC-10 / EF-10	5	200	100	SEE SPECS	DDC-2	CV, OCC/UNOC	1-HWC-10-011	200	8.6	0.9	180	160	55	95	0.5	1.5	x	xx	xx	8	-	PRICE SDV	-
1S-TUE-10-011	3RD FLR -	PRE-OP - 3B-192	4A	1S-AC-10 / EF-10	5	200	100	SEE SPECS	DDC-2	CV, OCC/UNOC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PRICE SDV	-
1S-TUE-10-012	3RD FLR -	HAC - 3B-172 & TOILETS - 3B-173, 3B-201, 3B-184	4A	1S-EF-10	6	400	400	SEE SPECS	DDC-1A	CV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PRICE SDV	-
1S-TUS-10-013	3RD FLR -	PRE-OP - 3B-171	4A	1S-AC-10 / EF-10	6	300	150	SEE SPECS	DDC-2	CV, OCC/UNOC	1-HWC-10-013	300	13.0	1.3	180	160	55	95	0.5	1.5	x	xx	xx	8	-	PRICE SDV	-
1S-TUE-10-013	3RD FLR -	PRE-OP - 3B-171	4A	1S-AC-10 / EF-10	6	300	150	SEE SPECS	DDC-2	CV, OCC/UNOC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PRICE SDV	
1S-TUS-10-014	3RD FLR -	PRE-OP - 3B-170	4A	1S-AC-10 / EF-10	5	250	150	SEE SPECS	DDC-2	CV, OCC/UNOC	1-HWC-10-014	300	13.0	1.3	180	160	55	95	0.5	1.5	x	xx	xx	8	-	PRICE SDV	-
1S-TUE-10-014	3RD FLR -	PRE-OP - 3B-170	4A	1S-AC-10 / EF-10	5	250	150	SEE SPECS	DDC-2	CV, OCC/UNOC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PRICE SDV	-
1S-TUS-10-015	3RD FLR -	STRETCHER STORAGE - 3B-199	4A	1S-AC-10	4	150	150	SEE SPECS	DDC-1	CV	1-HWC-10-015	150	6.5	0.6	180	160	55	95	0.5	1.5	x	xx	xx	8	-	PRICE SDV	-
1S-TUS-10-016	3RD FLR -	STERILE SUPPLIES - 3B-198	4A	1S-AC-10	4	150	150	SEE SPECS	DDC-1	CV	1-HWC-10-016	150	6.5	0.6	180	160	55	95	0.5	1.5	x	xx	xx	8	-	PRICE SDV	-
1S-TUS-10-017	3RD FLR -	NURSE STATIONS - 3B-197A, 3B-197B	4A	1S-AC-10 / EF-10	9	850	450	SEE SPECS	DDC-2	CV, OCC/UNOC	1-HWC-10-017	850	36.7	3.7	180	160	55	95	0.5	1.5	x	xx	xx	8	-	PRICE SDV	-
1S-TUE-10-017	3RD FLR -	NURSE STATIONS - 3B-197A, 3B-197B	4A	1S-AC-10 / EF-10	8	650	250	SEE SPECS	DDC-2	CV, OCC/UNOC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PRICE SDV	-
1S-TUS-10-018	3RD FLR -	PRE-OP - 3B-196	4A	1S-AC-10 / EF-10	5	250	150	SEE SPECS	DDC-2	CV, OCC/UNOC	1-HWC-10-018	250	10.8	1.1	180	160	55	95	0.5	1.5	x	xx	xx	8	-	PRICE SDV	-
1S-TUE-10-018	3RD FLR -	PRE-OP - 3B-196	4A	1S-AC-10 / EF-10	5	250	150	SEE SPECS	DDC-2	CV, OCC/UNOC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PRICE SDV	-
1S-TUS-10-019	3RD FLR -	PRE-OP - 3B-195	4A	1S-AC-10 / EF-10	5	250	150	SEE SPECS	DDC-2	CV, OCC/UNOC	1-HWC-10-019	250	10.8	1.1	180	160	55	95	0.5	1.5	x	xx	xx	8	-	PRICE SDV	-
1S-TUE-10-019	3RD FLR -	PRE-OP - 3B-195	4A	1S-AC-10 / EF-10	4	150	50	SEE SPECS	DDC-2	CV, OCC/UNOC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PRICE SDV	-
1S-TUS-10-020	3RD FLR -	PRE-OP - 3B-193	4A	1S-AC-10 / EF-10	5	250	150	SEE SPECS	DDC-2	CV, OCC/UNOC	1-HWC-10-020	250	10.8	1.1	180	160	55	95	0.5	1.5	x	xx	xx	8	-	PRICE SDV	-
1S-TUE-10-020	3RD FLR -	PRE-OP - 3B-193	4A	1S-AC-10 / EF-10	4	150	50	SEE SPECS	DDC-2	CV, OCC/UNOC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PRICE SDV	-
1S-TUE-10-021	3RD FLR -	TOILET - 3B-194	4A	1S-EF-10	5	200	200	SEE SPECS	DDC-1A	CV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PRICE SDV	-

NOTES:

1. BASIS OF DESIGN INDICATED FOR REFERENCE OF QUALITY AND PERFORMANCE. SUBMIT EQUIVALENT PRODUCTS AND MANUFACTURERS FOR REVIEW AS REQUIRED BY SPECIFICATIONS.
2. REFER TO SPECIFICATIONS, CONTROL DIAGRAMS AND CONTROL SEQUENCES OF OPERATION FOR ADDITIONAL REQUIIREMENTS ASSOCIATED WITH THE AIR TERMINAL UNITS AND THEIR INTEGRATION WITH THE BUILDING AUTOMATION SYSTEM (BAS) FOR APPROPRIATE AIRFLOW AND TEMPERATURE CONTROL OF EACH SPACE SERVED.

AIR DEVICE SCHEDULE (SUPPLY)

MARK	TYPE	MAX APD IN WG	MOUNTING	PANEL/FRAME SIZE IN x IN	FACE VELOCITY RANGE CFM/ft²	MAX NC	FACE OPERATED DAMPER	FINISH	BASIS OF DESIGN (OR APPROVED EQUAL)	REMARKS
SD-1	PLAQUE	1.130	CEILING LAY IN	24 x 24	-	23	NONE	WHITE	PRICE SPD	SEE NOTES BELOW
SD-2	RADIAL	0.100	CEILING	24 x 24	-	25	YES	WHITE	PRICE AFRFDP	SEE NOTES BELOW
SG-1	LOUVERED FACE	0.093	DUCT	-	-	35	NONE	WHITE	PRICE 530	SEE NOTES BELOW
LD-1	LINEAR - 2 SLOT	0.065	CEILING	48	-	23	NONE	WHITE	PRICE SDS	SEE NOTES BELOW
LFD-1	LAMINAR FLOW	-	OR CEILING ARRAY	24 x 48	SEE SPEC	-	YES	WHITE	PRECISION AIR LAMI-AIR IP	SEE NOTES BELOW
LFD-2	LAMINAR FLOW	-	OR CEILING ARRAY	24 x 36	SEE SPEC	-	YES	WHITE	PRECISION AIR LAMI-AIR IP	SEE NOTES BELOW

NOTES:

1. BASIS OF DESIGN INDICATED FOR REFERENCE OF QUALITY AND PERFORMANCE. SUBMIT EQUIVALENT PRODUCTS AND MANUFACTURERS FOR REVIEW AS REQUIRED BY SPECIFICATIONS.
2. SEE FLOOR PLAN FOR THROW PATTERN.
3. FOR DIFFUSERS WITHOUT FACE DAMPERS, PROVIDE DAMPER IN BRANCH DUCT SERVING EACH DIFFUSER UNLESS OTHERWISE NOTED.
4. SEE FLOOR PLANS FOR AIRFLOW QUANTITY (CFM), INLET/NECK SIZE AND GEOMETRY (RECTANGULAR / ROUND).
5. SUPPLY AIR DEVICES SHALL BE ALUMINUM WITH WHITE FINISH UNLESS NOTED OTHERWISE ABOVE.
6. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES AND FINAL MOUNTING TYPES FOR ALL AIR DEVICES.
7. PROVIDE INTEGRAL PLENUM SUPPLIED BY LINEAR SLOT MFGR. DUAL 3/4" SLOTS, 50 CFM/SQFT, VERTICAL & HORIZONTAL THROW, LAY-IN WITH END BORDERS COORDINATED WITH RCP.
8. PROVIDE LFD'S WITH INTEGRAL PLENUMS BY INTEGRATED PLENUM CEILING VENTILATION SYSTEM MFGR. REFER TO PLANS AND SPECS FOR SYSTEM SIZE/SHAPE, QUANTITY OF ACTIVE DIFFUSERS, GRID SPACING, ETC.
9. LFD'S SHALL INCLUDE REMOVABLE PLUG BUTTON MATCHING DIFFUSER FINISH MATERIAL FOR ACCESS TO VOLUME ADJUSTMENT VALVE WITHOUT REMOVAL OF FACEPLATE AND FACTORY-APPLIED EXTERIOR INSULATION.

AIR DEVICE SCHEDULE (EXHAUST / RETURN / TRANSFER AIR)

MARK	TYPE	MAX APD IN WG	MOUNTING	PANEL/FRAME SIZE IN x IN	MAX NC	FACE OPERATED DAMPER	FINISH	BASIS OF DESIGN (OR APPROVED EQUAL)	REMARKS
ED-1 / RD-1	PLAQUE	0.040	CEILING LAY IN	24 x 24	20	NONE	WHITE	PRICE ASPD	SEE NOTES BELOW
ED-2 / RD-1	PERFORATED	0.150	CEILING LAY IN	24 x 24	30	NONE	WHITE	PRICE APDDR	SEE NOTES BELOW
EG-1 / RG-1	LOUVERED GRILLE	0.050	WALL	-	30	NONE	WHITE	PRICE 630	SEE NOTES BELOW
EG-2 / RG-2	LOUVERED GRILLE	0.050	WALL / CEILING	-	30	NONE	S/S	PRICE 710Z	SEE NOTES BELOW

NOTES:

1. BASIS OF DESIGN INDICATED FOR REFERENCE OF QUALITY AND PERFORMANCE. SUBMIT EQUIVALENT PRODUCTS AND MANUFACTURERS FOR REVIEW AS REQUIRED BY SPECIFICATIONS.
2. EXHAUST AIR DEVICES SHALL BE ALUMINUM WITH WHITE FINISH UNLESS NOTED OTHERWISE ABOVE.
3. SEE FLOOR PLAN FOR INLET SIZE AND GEOMETRY.
4. SEE FLOOR PLAN FOR AIRFLOW QUANTITY (CFM).

DUCTWORK MATERIAL, CONSTRUCTION AND INSULATION SCHEDULE

SYSTEM NUMBER	SYSTEM DESCRIPTION / LOCATION	DUCTWORK MATERIAL	DUCTWORK PRESSURE CLASS	DUCTWORK SEAL CLASS	INSULATION TYPE	INSULATION THICKNESS	INSULATION MATERIAL	INSULATION JACKET / FACING	REMARKS
1S-AC-16	1S-AC-16 DISCH TO INLET SIDE OF SUPPLY AIRFLOW CONTROL VALVES	304 SS	+6"	A, WELDED	FLEXIBLE BLANKET	SPEC	MINERAL FIBER	FSK	INDOOR, NOTE 4
1S-AC-16	SUPPLY AIRFLOW CONTROL VALVE DISCHARGE TO SUPPLY AIR FIRE DAMPER AT PEM FLR	304 SS	+6"	A, WELDED	FLEXIBLE BLANKET	SPEC	MINERAL FIBER	FSK	INDOOR, NOTE 4
1S-AC-16	PEM FIRE DAMPER/EXIT FROM PEM TO SUPPLY AIR DISCHARGE DEVICES IN SURG SUITE	GALV or ALUM	+4"	A, FLANGED	FLEXIBLE BLANKET	SPEC	MINERAL FIBER	FSK	INDOOR - SEE BID ITEMS
1S-RF-16A,B	OUTLET SIDE OF RETURN AIRFLOW CONTROL VALVE TO INLET OF 1S-RF-16A,B	GALV	-4"	A	FLEXIBLE BLANKET	SPEC	MINERAL FIBER	FSK	INDOOR, NOTE 4
1S-RF-16A,B	RETURN INLET DEVICE TO INLET SIDE OF RETURN AIRFLOW CONTROL VALVE	GALV	-3"	A	FLEXIBLE BLANKET	SPEC	MINERAL FIBER	FSK	INDOOR
1S-AC-8, 10	1S-AC-8,10 SUPPLY DISCH TO INLET SIDE OF SUPPLY AIR TERMINAL UNITS	GALV	+4"	A	FLEXIBLE BLANKET	SPEC	MINERAL FIBER	FSK	INDOOR, NOTE 5
1S-AC-8, 10	SUPPLY AIR TERMINAL UNIT/RHC DISCHARGE TO DISCHARGE DEVICES	GALV	+3"	A	FLEXIBLE BLANKET	SPEC	MINERAL FIBER	FSK	INDOOR
1S-EF-8, 10	OUTLET SIDE OF EXHAUST AIR TERMINAL UNIT TO INLET OF 1S-EF-08, 10	GALV	-4"	A	FLEXIBLE BLANKET	SPEC	MINERAL FIBER	FSK	INDOOR, NOTE 5
1S-EF-8, 10	EXHAUST INLET DEVICE TO INLET SIDE OF EXHAUST AIR TERMINAL UNIT	GALV	-3"	A	FLEXIBLE BLANKET	SPEC	MINERAL FIBER	FSK	INDOOR
1S-AC-9	1S-AC-9 SUPPLY DISCHARGE DUCTWORK UP TO/ACROSS ROOF OF MECH EQUIP ROOM	GALV	+4"	A	FLEXIBLE BLANKET	SPEC	MINERAL FIBER	FSK	OUTDOOR, NOTE 6
1S-AC-9	1S-AC-9 SUPPLY FROM ROOF DUCT DROP TO INLET SIDE OF SUPPLY AIR TERMINAL UNITS	GALV	+4"	A	FLEXIBLE BLANKET	SPEC	MINERAL FIBER	FSK	INDOOR, NOTE 5
1S-AC-9	SUPPLY AIR TERMINAL UNIT/RHC DISCHARGE TO DISCHARGE DEVICES	GALV	+3"	A	FLEXIBLE BLANKET	SPEC	MINERAL FIBER	FSK	INDOOR
1S-RF-9	1S-RF-9 RETURN FAN MAIN DUCTWORK UP TO/ACROSS ROOF OF MECH EQUIP ROOM	GALV	-4"	A	FLEXIBLE BLANKET	SPEC	MINERAL FIBER	FSK	OUTDOOR, NOTE 6
1S-RF-9	OUTLET SIDE OF RETURN AIR TERMINAL UNIT UP TO ROOF PENETRATION	GALV	-4"	A	FLEXIBLE BLANKET	SPEC	MINERAL FIBER	FSK	INDOOR, NOTE 5
1S-RF-9	RETURN INLET DEVICE TO INLET SIDE OF RETURN AIR TERMINAL UNIT	GALV	-3"	A	FLEXIBLE BLANKET	SPEC	MINERAL FIBER	FSK	INDOOR
1S-EF-16	OUTLET SIDE OF EXHAUST AIRFLOW CONTROL VALVE TO 1S-EF-16 SHAFT/RISER	GALV	-4"	A	-	-	-	-	-
1S-EF-16	EXHAUST INLET DEVICE TO INLET SIDE OF EXHAUST AIRFLOW CONTROL VALVE	GALV	-3"	A	-	-	-	-	-
1S-EF-18	2ND FLR FUME HOOD EXHAUST DUCT OFFSET THROUGH 3RD FLOOR, SLAB TO SLAB	304 SS	-4	A, WELDED	RATED OFFSET-SPEC	SPEC	SPEC	SPEC	RATED CHASE/DUCT WRAP
1S-EF-19	OUTLET SIDE OF EXHAUST AIR TERMINAL UNIT TO INLET OF 1S-EF-19	GALV	-3"	A	NOTE 3	SPEC	MINERAL FIBER	FSK	INDOOR
1S-EF-19	EXHAUST INLET DEVICE TO INLET SIDE OF EXHAUST AIR TERMINAL UNIT	GALV	-2"	A	-	-	-	-	-
1S-EF-20	EXHAUST INLET DEVICE TO INLET OF 1S-EF-20	GALV	-2"	A	NOTE 3	SPEC	MINERAL FIBER	FSK	INDOOR

NOTES:

1. REFER TO HVAC DUCTS AND CASINGS SPECIFICATION SECTION 23 31 00 FOR ADDITIONAL REQUIREMENTS.
2. REFER TO HVAC DUCT INSULATION SPECIFICATION SECTION 23 07 11 FOR ADDITIONAL REQUIREMENTS.
3. EXHAUST SYSTEMS INCLUDING ENERGY RECOVERY SHALL INCLUDE EXTERNAL INSULATION. EXHAUST DUCTWORK 5'-0" PRIOR TO EXITING BUILDING/CONNECTING TO ROOFTOP EXHAUST FANS SHALL BE EXTERNALLY INSULATED.
4. FOR SUPPLY AND RETURN DUCTWORK WITHIN PENTHOUSE EQUIPMENT MODULE, PROVIDE MINERAL FIBER BOARD WITH ASJ FOR DUCTWORK 6'-0" AFF AND BELOW. SEE SPECS FOR ADDITIONAL REQUIREMENTS.
5. FOR SUPPLY, RETURN AND EXHAUST DUCTWORK WITHIN 2ND/3RD FLOOR MECHANICAL EQUIPMENT ROOMS, PROVIDE MINERAL FIBER BOARD WITH ASJ FOR DUCTWORK 6'-0" AFF AND BELOW. SEE SPECS FOR ADDITIONAL REQUIREMENTS.
6. DUCTWORK SHALL INCLUDE WATER-TIGHT/WEATHER PROOF INSULATION / DUCTWORK LAGGING SYSTEM WITH TAPERED TOP, ETC.. REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

CONSULTANTS:

COMMONWEALTH OF VIRGINIA
REGISTERED PROFESSIONAL ENGINEER
THOMAS L. CHAPMAN
NO. PE0440436

ARCHITECT / ENGINEERS:

Miller-Remick LLC
M.E.P. & Structural Engineering
A Service Disabled Veteran Owned Small Business
1010 KINGS HIGHWAY SOUTH
CHERRY HILL, NEW JERSEY 08034
PHONE: (856)429-4000
FAX: (856)429-5002

SDVOSB

PF&A
PF&A DESIGN
ARCHITECTURE, PLANNING, INTERIORS
World Trade Center
101 West Main Street, Suite 7000
Norfolk, VA 23510
Phone: 757-471-0537
Fax: 757-471-4205
www.pfa-architect.com

Drawing Title: MECHANICAL SCHEDULES

Approved: Medical Center Director

Project Title: RENOVATE SURGICAL SERVICE & UPGRADE OPERATING ROOMS

Location: HUNTINGTON, WV

Date: 10.31.2014 | Checked: MPP | Drawn: JLR

Project Number: 581-13-101

Building Number: 1S

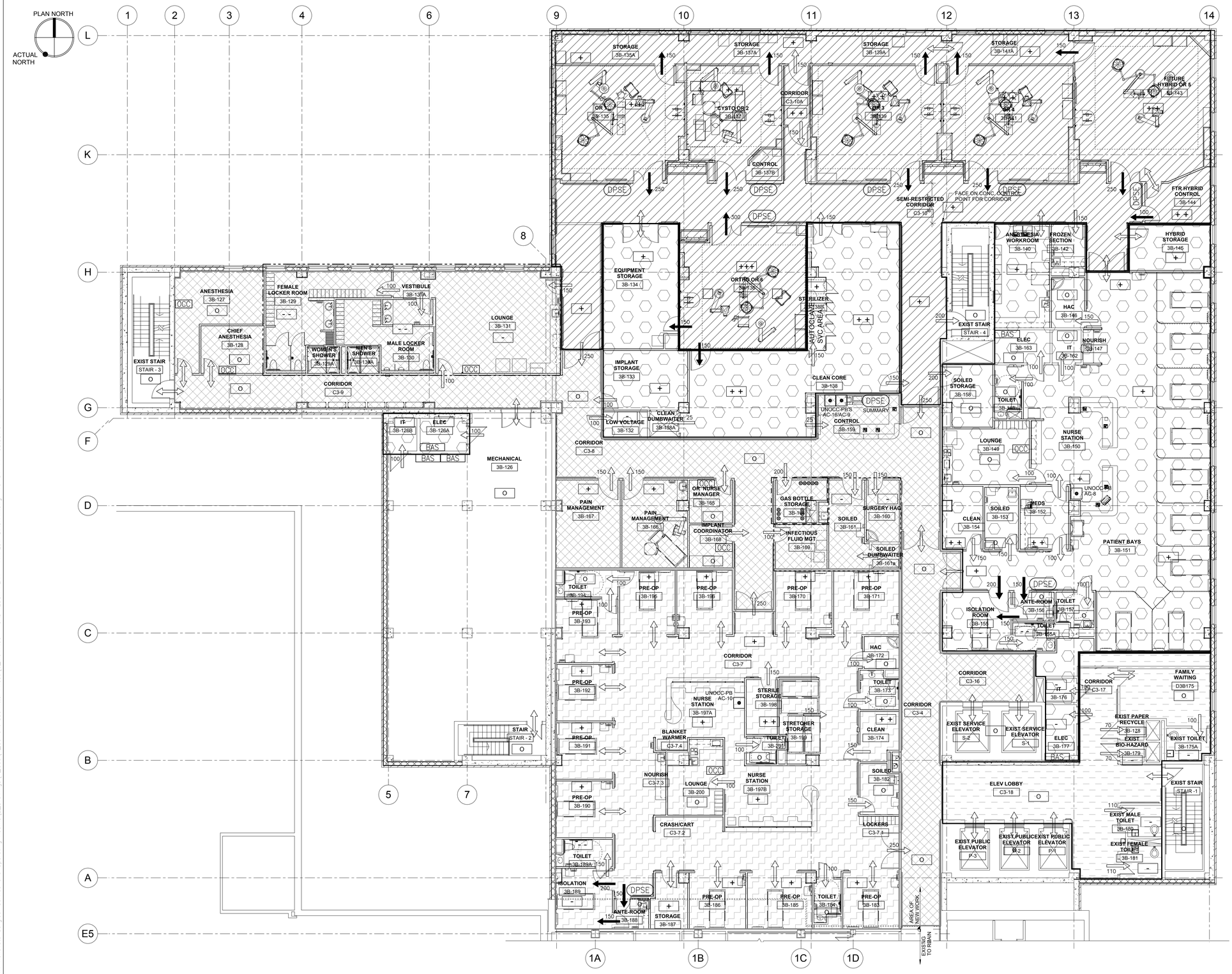
Drawing Number: M6.05

Dwg. 077 of 178

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



HVAC EQUIPMENT ZONING

- NEW SURGERY 1S-AC-16 / 1S- RF-16
- (E)1S-AC-8 / 1S-EF-8 NEW PACU/ RECOVERY
- (E)1S-AC-9 / 1S-RF-9 NEW ADMIN / SURG SUPPORT/ CIRCULATION
- (E)1S-AC-10 / 1S-EF-10 NEW PRE-OP / SURG PREP
- (E)1A-AC-3 / 1A-RF-3 / 1A-EF-5 - EXISTING FAMILY WAITING / ELEVATOR LOBBY
- EF-8 (SERVING AC-9 SURGICAL SUPPORT)
- EF-19, GAS STORAGE
- EF-20, LOUNGE / LOCKER ROOMS

PRESSURIZATION

- CRITICAL DIRECTIONAL AIRFLOW: - DIFFERENTIAL PRESSURE MONITORED/ALARMED
- AIR FLOW DIRECTION: - FOR GOOD ENGINEERING PRACTICE / AS PER VAMC DESIGN GUIDELINES
- AIR FLOW DIRECTION: - NEUTRAL
- O — RELATIVE ROOM PRESSURE - NEUTRAL TO REFERENCE/SLIGHTLY POSITIVE TO OUTDOORS
- + — RELATIVE ROOM PRESSURE - POSITIVE TO REFERENCE
- - — RELATIVE ROOM PRESSURE - NEGATIVE TO REFERENCE
- DPSE — ROOM DIFFERENTIAL PRESSURE MONITORING PANEL WITH LOCAL ALARM KEY-SWITCH OVERRIDE
- DPSE SUMMARY — ROOM DIFFERENTIAL PRESSURE MONITORING SUMMARY PANEL LOCATED AT NURSE STATION
- OCC — MULTI-TECHNOLOGY ROOM OCCUPANCY SENSOR FOR OCCUPIED/UNOCCUPIED CONTROL
- • — SECURED UNOCCUPIED MODE OVER-RIDE PUSH-BUTTON - TO ENGAGE HVAC OCCUPIED MODE TEMPORARILY - SEE CONTROLS DIAGRAMS
- BAS — POTENTIAL NEW BAS PANEL LOCATIONS. COORDINATE WITH ALL TRADES, THE VAMC AND ACTUAL AVAILABLE SPACE IN THE FIELD PER PROJECT PHASE.

NOTES:

1. AIR QUANTITIES (CFM) INDICATED ARE DESIGN TARGET VALUES ONLY. TESTING, ADJUSTING AND BALANCING CONTRACTOR SHALL BALANCE ALL AIR SYSTEMS AND THEIR ASSOCIATED SUPPLY, RETURN AND EXHAUST FANS TO MEET ROOM PRESSURIZATION LEVELS AND DIRECTIONAL TRANSFER AIR FLOW / OFFSETS AS INDICATED.
2. DRAWING REPRESENTS FINAL CONDITION AFTER ALL PROJECT PHASES COMPLETE. DESIGN INTENT FOR EACH SPACE TYPE'S DIRECTIONAL AIRFLOW AND ROOM PRESSURE SHALL BE MAINTAINED FOR EACH PHASE.

100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

CONSULTANTS:

COMMONWEALTH OF VIRGINIA REGISTERED PROFESSIONAL ENGINEER THOMAS L. CHAPMAN NO. PE044043R

ARCHITECT / ENGINEERS:

Miller-Remick LLC
M.E.P. & Structural Engineering
A Service Disabled Veteran Owned Small Business
1010 KINGS HIGHWAY SOUTH
CHERRY HILL, NEW JERSEY 08034
PHONE: (856)429-4000
FAX: (856)429-9002

SDVOSB SBA CERTIFIED VETERAN OWNED SMALL BUSINESS CVE

PF&A
PF&A DESIGN
ARCHITECTURE, PLANNING, INTERIORS
World Trade Center
101 West Main Street, Suite 7000
Norfolk, VA 23510
Phone: 757-471-0537
Fax: 757-471-4205
www.pfa-architect.com

Drawing Title: MECHANICAL - 3RD FLOOR PLAN AHU ZONE DIAGRAM AND ROOM OFFSET AIRLFOW PLAN

Approved: Medical Center Director

Project Title: RENOVATE SURGICAL SERVICE & UPGRADE OPERATING ROOMS

Location: HUNTINGTON, WV

Date: 10.31.2014 | Checked: EJP | Drawn: JLR/MS

Project Number: 581-13-101

Building Number: 1S

Drawing Number: M7.00

Dwg. 078 of 178

Office of Construction and Facilities Management

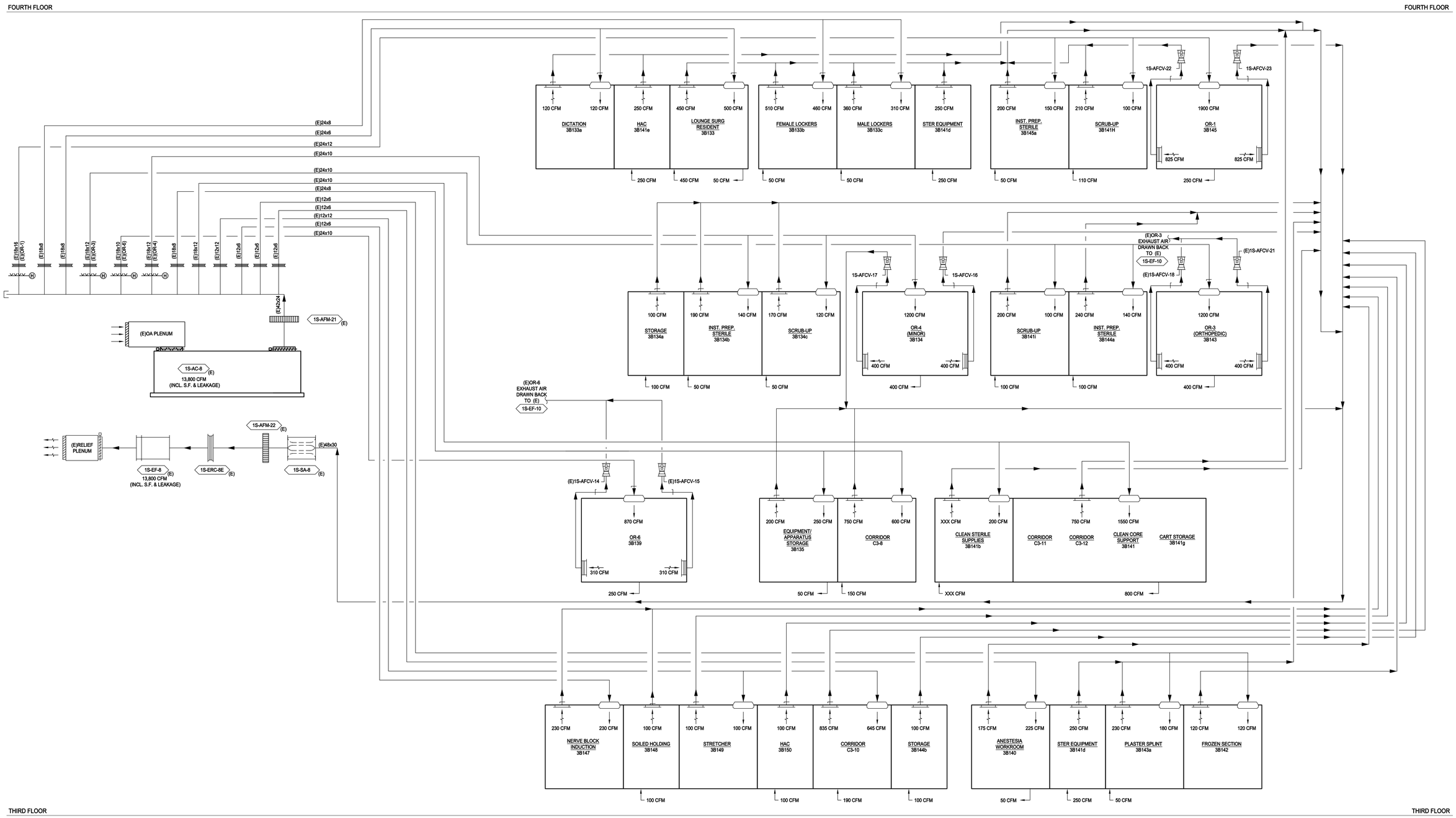
Department of Veterans Affairs

VA FORM 08-6231

GENERAL NOTES:

1. EXISTING 1S-AC-8 / 1S-EF-8 WILL BE REVISED AND REUSED TO SERVE THE NEW SURGICAL RECOVERY / PACU / ISOLATION ROOM AND CERTAIN SURGICAL SUPPORT AREAS OF THE RENOVATION. DEMOLITION WORK TO OCCUR DURING AND ACROSS PHASES 1B THROUGH 4A. AIRFLOW DIAGRAMS REPRESENT THE BASIC UNDERSTANDING OF EXISTING HVAC SYSTEM AIR DISTRIBUTION AND THE AS-BUILT/RECORD DESIGN DRAWING CAPACITY/AIRFLOW QUANTITIES. SINGLE LINE DIAGRAMS DO NOT INCLUDE ALL SYSTEM DETAILS AND DO NOT REPRESENT EXACT ORDER OR PLACEMENT OF TERMINAL EQUIPMENT WITHIN THE DUCTWORK SYSTEMS. REFER TO DEMOLITION PLANS FOR ADDITIONAL INFORMATION, REQUIREMENTS AND THE EXTENT OF REVISIONS TO BE MADE TO EACH SYSTEM INDICATED.

2. PROVIDE PRE-CONSTRUCTION AND PHASED TESTING AND BALANCING SUPPORT AND REPORTS TO MAINTAIN AND DOCUMENT AIRFLOW RATES TO ALL AREAS (WITHIN AND OUTSIDE OF THE ACTIVE PROJECT PHASE). AIRFLOW RATES AND PRESSURE / TRANSFER AIR OFFSETS MUST BE MAINTAINED. AREAS OF DEMOLITION ARE TO BE SET UP AND MAINTAINED AS NEGATIVE AT ALL TIMES. AREAS ADJACENT TO THE ACTIVE PHASE MUST REMAIN STABLE / IN THEIR AS-FOUND CONDITIONS PRIOR TO ANY CONSTRUCTION/DEMOLITION EFFORTS. COORDINATE EACH PHASE OF WORK WITH THE OWNER AND DESIGN TEAM.



100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

CONSULTANTS:

COMMONWEALTH OF VIRGINIA
REGISTERED PROFESSIONAL
THOMAS L. CHAPMAN
ENGINEER
NO. PE0440438

ARCHITECT / ENGINEERS:

Miller-Remick LLC
M.E.P. & Structural Engineering
A Service Disabled Veteran Owned Small Business
1010 KINGS HIGHWAY SOUTH
CHERRY HILL, NEW JERSEY 08034
PHONE: (856)429-4000
FAX: (856)429-5002

SDVOSB

PF&A
PF&A DESIGN
ARCHITECTURE, PLANNING, INTERIORS
World Trade Center
101 West Main Street, Suite 7000
Norfolk, VA 23510
Phone: 757-471-0537
Fax: 757-471-4205
www.pfa-architect.com

Drawing Title: MECHANICAL - EXISTING AC-8 AND EF-8 AIRFLOW DIAGRAM

Approved: Medical Center Director

Project Title: RENOVATE SURGICAL SERVICE & UPGRADE OPERATING ROOMS

Location: HUNTINGTON, WV

Date: 10.31.2014 | Checked: MPP | Drawn: JLR

Project Number: 581-13-101

Building Number: 1S

Drawing Number: M7.01

Dwg. 079 of 178

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231