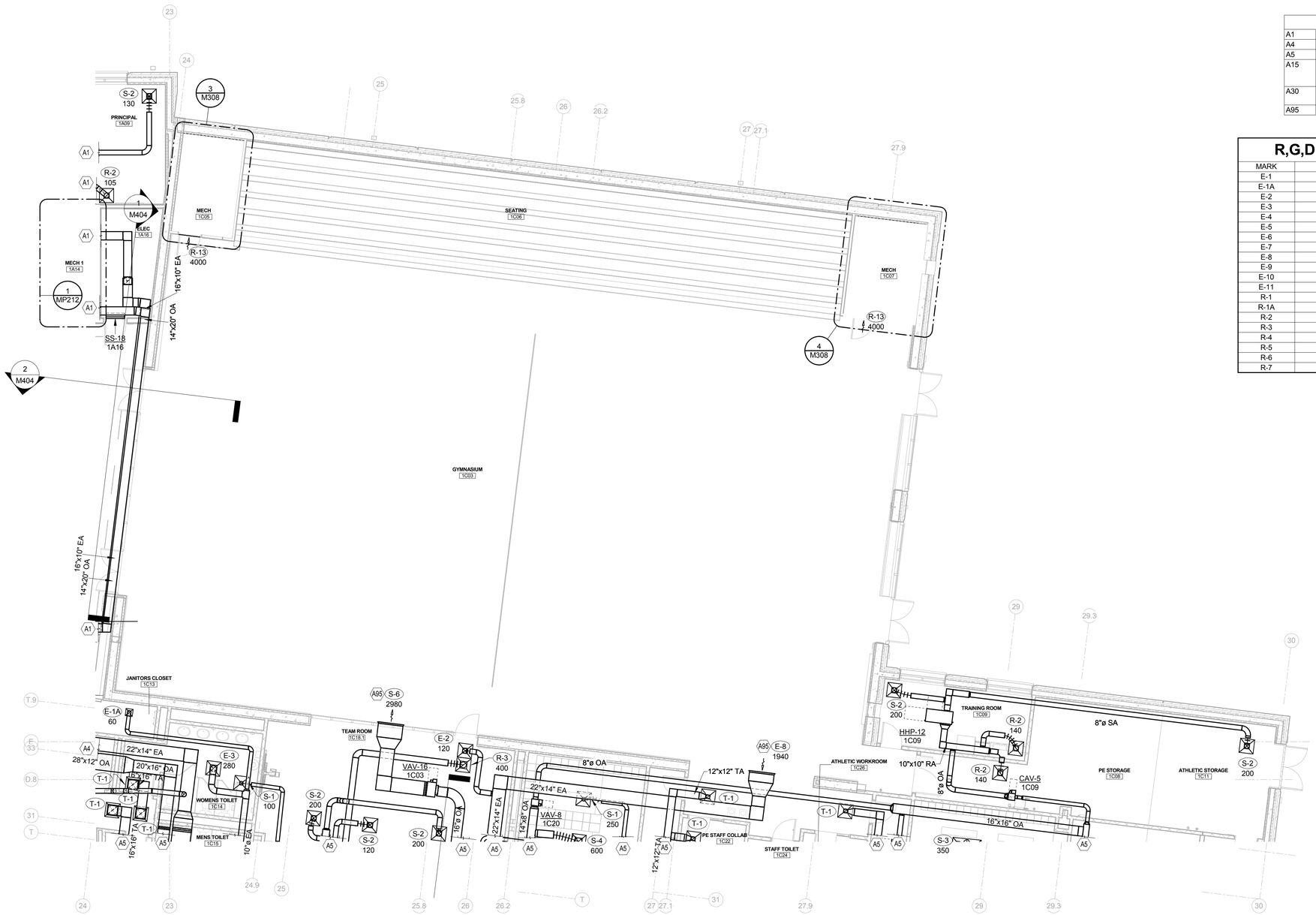


PLAN NORTH

FIRST FLOOR AREA C - AIR DISTRIBUTION

TAGGED NOTES	
A1	REFER TO FIRST FLOOR - AREA 'B' - AIR DISTRIBUTION PLAN FOR CONTINUATION.
A4	REFER TO FIRST FLOOR - AREA 'E' - AIR DISTRIBUTION PLAN FOR CONTINUATION.
A5	REFER TO FIRST FLOOR - AREA 'F' - AIR DISTRIBUTION PLAN FOR CONTINUATION.
A15	PROVIDE 4" DRYER EXHAUST AIR DUCT. ROUTE TO ALUMINUM DRYER WALL CAP WITH BACKDRAFT DAMPER. DO NOT INSTALL MORE THAN THREE 90 DEGREE BENDS. REFER TO ARCHITECTURAL ELEVATION DRAWINGS FOR VENT CAP MOUNTING HEIGHT.
A30	CONNECT DUCT TO RETURN GRILLE ABOVE DOOR. REFER TO ARCHITECHURAL PLANS FOR RETURN GRILLE INFORMATION AND ELEVATIONS.
A95	MOUNT BOTTOM OF GRILLE 11'-6" ABOVE FINISHED FLOOR.

R,G,D RUNOUT

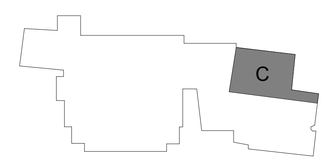
MARK	BRANCH DUCT SIZE
E-1	6" DIA.
E-1A	6" DIA.
E-2	8" DIA.
E-3	10" DIA.
E-4	12" DIA.
E-5	14" DIA.
E-6	16" DIA.
E-7	10" DIA.
E-8	-
E-9	12" DIA
E-10	-
E-11	-
R-1	6" DIA.
R-1A	6" DIA.
R-2	8" DIA.
R-3	10" DIA.
R-4	12" DIA
R-5	14" DIA.
R-6	14" DIA.
R-7	16" DIA.

R,G,D RUNOUT

MARK	BRANCH DUCT SIZE
R-9	-
R-10	-
R-11	24"X12"
R-12	34"X30"
R-13	
S-1	6" DIA.
S-1A	6" DIA.
S-2	8" DIA.
S-3	10" DIA.
S-4	12" DIA.
S-5	-
S-6	-
S-7	34"x12"
S-8	24"X12"
S-9	12" DIA.
S-10	8"X6"
S-13	10" DIA.
S-14	36"X12"
S-15	16" DIA.
T-1	8x8

VAV/CAV BOX RUNOUT

MARK	INLET SIZE
CAV-4	4"ø
CAV-5	5"ø
CAV-6	6"ø
CAV-8	8"ø
CAV-10	10"ø
CAV-14	14"ø
CAV-16	16"ø
VAV-4	4"ø
VAV-5	5"ø
VAV-6	6"ø
VAV-8	8"ø
VAV-10	10"ø
VAV-16	16"ø



0 2' 4' 8' 16' 24'

SCALE AT FULL SIZE: 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR

NAVFAC

STATE OF KENTUCKY
KEVIN D. MUSSIER
22296
LICENSED
PROFESSIONAL ENGINEER

SEAL

EWING COLE
Federal Reserve Bank Building
100 North 6th Street
Philadelphia, PA 19106-1590
Tel: 215-923-2020 Fax: 215-574-0952

A/E INFO

APPROVED

FOR COMMANDER NAVFAC
ACTIVITY

SATISFACTORY TO DATE
CRK LMM/CRK KDM
PM/DM
BRANCH MANAGER
CHIEF ENG/ ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
DoDEA
NAVAL FACILITIES ENGINEERING COMMAND ~ WASHINGTON
MARINE CORPS BASE QUANTICO, VIRGINIA
MARINE CORPS BASE QUANTICO
QUANTICO, VA
REPLACE QUANTICO M/H SCHOOL
FIRST FLOOR - AREA 'C' - AIR DISTRIBUTION

SCALE: 1/8" = 1'-0"
PROJECT NO.: P-021
CONSTR. CONTR. NO. W91236-15-C-0023
NAVFAC DRAWING NO. 13091216
SHEET 462 OF 789
MH113

DRAWFORM REVISION: 10 MARCH 2009

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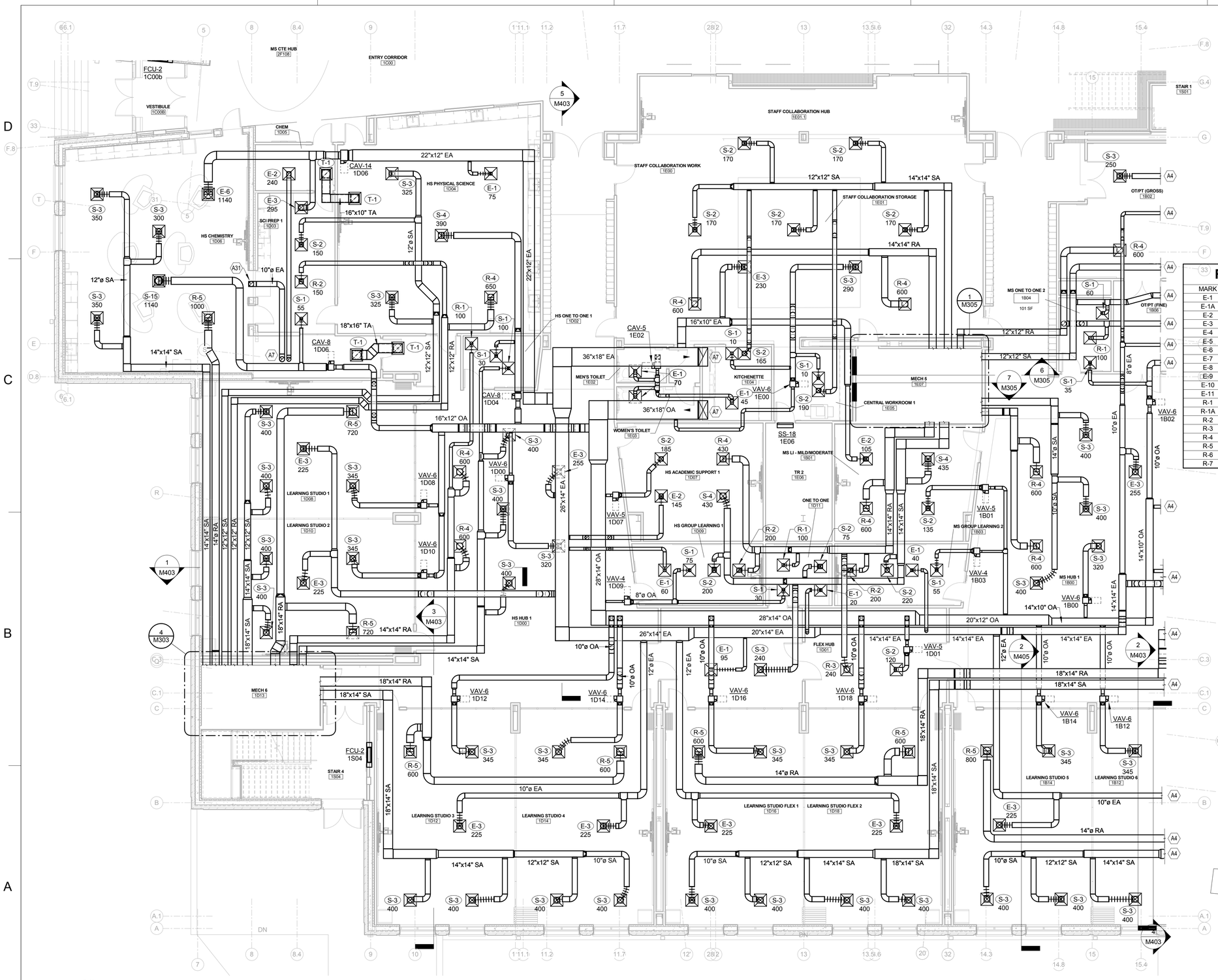
RTA SUBMISSION - 10/13/2016



TAGGED NOTES	
A4	REFER TO FIRST FLOOR - AREA 'E' - AIR DISTRIBUTION PLAN FOR CONTINUATION.
A7	REFER TO SECOND FLOOR - AREA 'D' - AIR DISTRIBUTION PLAN FOR CONTINUATION.
A31	ROUTE DUCT DOWN TO CONNECT TO FUME HOOD. REFER TO ARCHITECTURAL PLANS FOR EXACT FUME HOOD LOCATION.

R,G,D RUNOUT

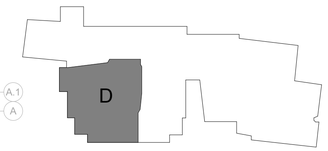
MARK	BRANCH DUCT SIZE
E-1	6" DIA.
E-1A	6" DIA.
E-2	8" DIA.
E-3	10" DIA.
E-4	12" DIA.
E-5	14" DIA.
E-6	16" DIA.
E-7	10" DIA.
E-8	-
E-9	12" DIA
E-10	-
E-11	-
R-1	6" DIA.
R-1A	6" DIA.
R-2	8" DIA.
R-3	10" DIA.
R-4	12" DIA
R-5	14" DIA.
R-6	14" DIA.
R-7	16" DIA.

R,G,D RUNOUT

MARK	BRANCH DUCT SIZE
R-9	-
R-10	-
R-11	24"X12"
R-12	34"X30"
R-13	
S-1	6" DIA.
S-1A	6" DIA.
S-2	8" DIA.
S-3	10" DIA.
S-4	12" DIA.
S-5	-
S-6	-
S-7	34"x12"
S-8	24"X12"
S-9	12" DIA.
S-10	8"X6"
S-13	10" DIA.
S-14	36"X12"
S-15	16" DIA.
T-1	8x8

VAV/CAV BOX RUNOUT

MARK	INLET SIZE
CAV-4	4"ø
CAV-5	5"ø
CAV-6	6"ø
CAV-8	8"ø
CAV-10	10"ø
CAV-14	14"ø
CAV-16	16"ø
VAV-4	4"ø
VAV-5	5"ø
VAV-6	6"ø
VAV-8	8"ø
VAV-10	10"ø
VAV-16	16"ø



0 2' 4' 8' 16' 24'

SCALE AT FULL SIZE: 1/8" = 1'-0"

PLAN NORTH

FIRST FLOOR AREA D - AIR DISTRIBUTION

RTA SUBMISSION - 10/13/2016

SYM	DESCRIPTION	DATE	APPR

NAVFAC

STATE OF KENTUCKY
KEVIN D. MUSSLER
22296
LICENSED
PROFESSIONAL ENGINEER
SEAL

EWING COLE
Federal Reserve Bank Building
100 North 6th Street
Philadelphia, PA 19106-1590
Tel: 215-923-2020 Fax: 215-574-0952

A/E INFO

APPROVED

FOR COMMANDER NAVFAC
ACTIVITY

SATISFACTORY TO DATE
CRK LMM/CRK KDM
PM/DM
BRANCH MANAGER
CHIEF ENG/ ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
DoDEA

NAVAL FACILITES ENGINEERING COMMAND ~ WASHINGTON
MARINE CORPS BASE QUANTICO, VIRGINIA

MARINE CORPS BASE QUANTICO
QUANTICO, VA

REPLACE QUANTICO M/H SCHOOL

FIRST FLOOR - AREA 'D' - AIR DISTRIBUTION

SCALE: 1/8" = 1'-0"
PROJECT NO.: P-021
CONSTR. CONTR. NO. W91236-15-C-0023
NAVFAC DRAWING NO. 13091217
SHEET 463 OF 789
MH114

DRAWFORM REVISION: 10 MARCH 2009

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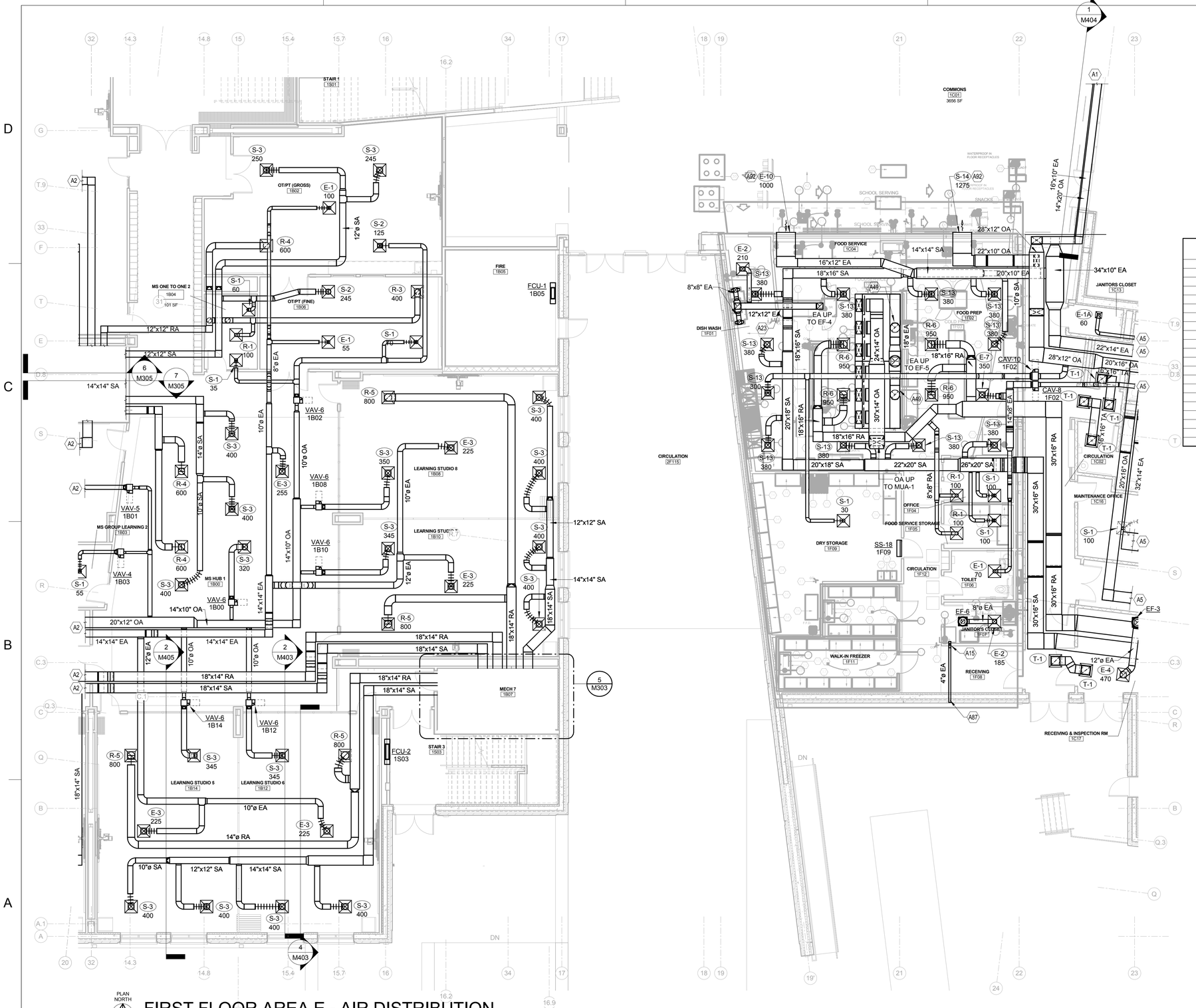


FIRST FLOOR AREA E - AIR DISTRIBUTION

TAGGED NOTES	
A1	REFER TO FIRST FLOOR - AREA 'B' - AIR DISTRIBUTION PLAN FOR CONTINUATION.
A2	REFER TO FIRST FLOOR - AREA 'D' - AIR DISTRIBUTION PLAN FOR CONTINUATION.
A5	REFER TO FIRST FLOOR - AREA 'F' - AIR DISTRIBUTION PLAN FOR CONTINUATION.
A15	PROVIDE 4" DRYER EXHAUST AIR DUCT. ROUTE TO ALUMINUM DRYER WALL CAP WITH BACKDRAFT DAMPER. DO NOT INSTALL MORE THAN THREE 90 DEGREE BENDS. REFER TO ARCHITECTURAL ELEVATION DRAWINGS FOR VENT CAP MOUNTING HEIGHT.
A23	SLOPE ALUMINUM DUCTWORK FROM FAN TOWARDS DISHWASHER.
A49	PROVIDE GREASE DUCT ACCESS DOORS FOR CLEANOUT. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
A87	DRYER VENT DUCT TO ALUMINUM DRYER WALL CAP WITH BACKDRAFT DAMPER AT EXTERIOR WALL. INSTALL WALL CAP PER MANUFACTURER'S REQUIRMENTS
A92	MOUNT BOTTOM OF GRILLE 12"-8" ABOVE FINISHED FLOOR.

R,G,D RUNOUT

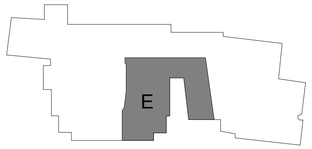
MARK	BRANCH DUCT SIZE
E-1	6" DIA.
E-1A	6" DIA.
E-2	8" DIA.
E-3	10" DIA.
E-4	12" DIA.
E-5	14" DIA.
E-6	16" DIA.
E-7	10" DIA.
E-8	-
E-9	12" DIA
E-10	-
E-11	-
R-1	6" DIA.
R-1A	6" DIA.
R-2	8" DIA.
R-3	10" DIA.
R-4	12" DIA
R-5	14" DIA.
R-6	14" DIA.
R-7	16" DIA.

R,G,D RUNOUT

MARK	BRANCH DUCT SIZE
R-9	-
R-10	-
R-11	24"X12"
R-12	34"X30"
R-13	
S-1	6" DIA.
S-1A	6" DIA.
S-2	8" DIA.
S-3	10" DIA.
S-4	12" DIA.
S-5	-
S-6	-
S-7	34"x12"
S-8	24"X12"
S-9	12" DIA.
S-10	8"X6"
S-13	10" DIA.
S-14	36"X12"
S-15	16" DIA.
T-1	8x8

VAV/CAV BOX RUNOUT

MARK	INLET SIZE
CAV-4	4"ø
CAV-5	5"ø
CAV-6	6"ø
CAV-8	8"ø
CAV-10	10"ø
CAV-14	14"ø
CAV-16	16"ø
VAV-4	4"ø
VAV-5	5"ø
VAV-6	6"ø
VAV-8	8"ø
VAV-10	10"ø
VAV-16	16"ø



0 2' 4' 8' 16' 24'

SCALE AT FULL SIZE: 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR

NAVFAC

STATE OF KENTUCKY
KEVIN D. MUSSLER
22296
LICENSED
PROFESSIONAL ENGINEER
SEAL

EWING COLE
Federal Reserve Bank Building
100 North 6th Street
Philadelphia, PA 19106-1590
Tel: 215-923-2020 Fax: 215-574-0952
A/E INFO

APPROVED

FOR COMMANDER NAVFAC
ACTIVITY

SATISFACTORY TO DATE
CRK LMM/CRK KDM
PM/DM
BRANCH MANAGER
CHIEF ENG/ ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
DivDEA
NAVAL FACILITIES ENGINEERING COMMAND ~ WASHINGTON
MARINE CORPS BASE QUANTICO
MARINE CORPS BASE QUANTICO, VIRGINIA
QUANTICO, VA
REPLACE QUANTICO M/H SCHOOL
FIRST FLOOR - AREA 'E' - AIR DISTRIBUTION

SCALE: 1/8" = 1'-0"
PROJECT NO.: P-021
CONSTR. CONTR. NO. W91236-15-C-0023
NAVFAC DRAWING NO. 13091218
SHEET 464 OF 789
MH115

DRAWFORM REVISION: 10 MARCH 2009

RTA SUBMISSION - 10/13/2016

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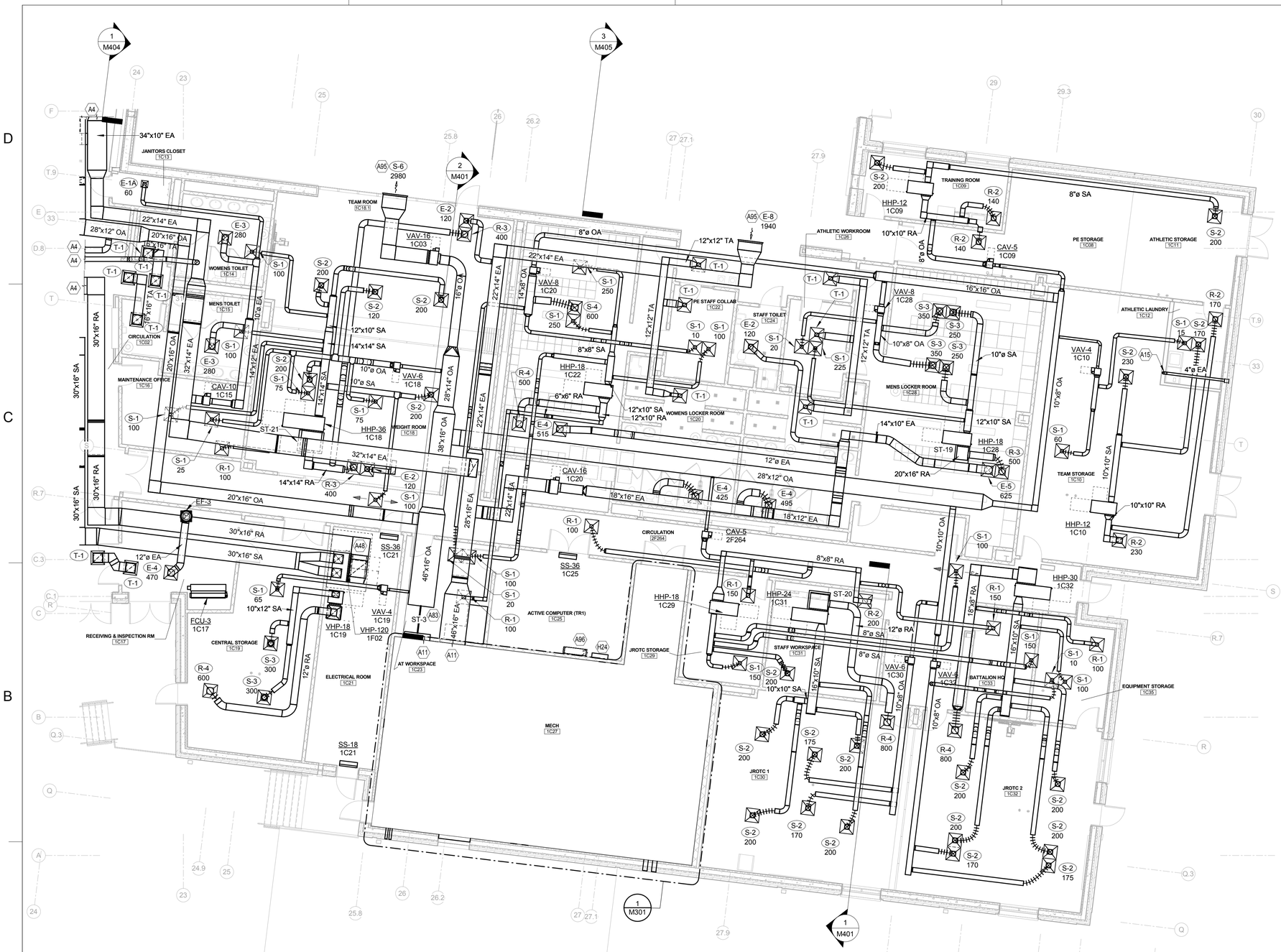

FIRST FLOOR AREA F - AIR DISTRIBUTION

TAGGED NOTES	
A4	REFER TO FIRST FLOOR - AREA 'E' - AIR DISTRIBUTION PLAN FOR CONTINUATION.
A11	REFER TO ENLARGED MECHANICAL ROOM PLANS FOR CONTINUATION.
A15	PROVIDE 4" DRYER EXHAUST AIR DUCT. ROUTE TO ALUMINUM DRYER WALL CAP WITH BACKDRAFT DAMPER. DO NOT INSTALL MORE THAN THREE 90 DEGREE BENDS. REFER TO ARCHITECTURAL ELEVATION DRAWINGS FOR VENT CAP MOUNTING HEIGHT.
A48	PROVIDE DUCT SMOKE DETECTOR IN THIS LOCATION.
A83	WRAP SUPPLY AND EXHAUST DUCT OF OA-2 ABOVE AT WORKSPACE 1C23 WITH A MASS LOADED VINYL PRODUCT.
A95	MOUNT BOTTOM OF GRILLE 11'-6" ABOVE FINISHED FLOOR.
A96	COOLING RACK INDOOR UNIT FROM EXISTING BURROWS SCHOOL. CONTRACTOR SHALL INSTALL EXISTING EQUIPMENT. REFER TO SHEET M605 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
H24	DDC PANEL LOCATION.

R,G,D RUNOUT

MARK	BRANCH DUCT SIZE
E-1	6" DIA.
E-1A	6" DIA.
E-2	8" DIA.
E-3	10" DIA.
E-4	12" DIA.
E-5	14" DIA.
E-6	16" DIA.
E-7	10" DIA.
E-8	-
E-9	12" DIA
E-10	-
E-11	-
R-1	6" DIA.
R-1A	6" DIA.
R-2	8" DIA.
R-3	10" DIA.
R-4	12" DIA
R-5	14" DIA.
R-6	14" DIA.
R-7	16" DIA.

R,G,D RUNOUT

MARK	BRANCH DUCT SIZE
R-9	-
R-10	-
R-11	24"X12"
R-12	34"X30"
R-13	-
S-1	6" DIA.
S-1A	6" DIA.
S-2	8" DIA.
S-3	10" DIA.
S-4	12" DIA.
S-5	-
S-6	-
S-7	34"x12"
S-8	24"X12"
S-9	12" DIA.
S-10	8"X6"
S-13	10" DIA.
S-14	36"X12"
S-15	16" DIA.
T-1	8x8

VAV/CAV BOX RUNOUT

MARK	INLET SIZE
CAV-4	4"ø
CAV-5	5"ø
CAV-6	6"ø
CAV-8	8"ø
CAV-10	10"ø
CAV-14	14"ø
CAV-16	16"ø
VAV-4	4"ø
VAV-5	5"ø
VAV-6	6"ø
VAV-8	8"ø
VAV-10	10"ø
VAV-16	16"ø

0 2' 4' 8' 16' 24'

SCALE AT FULL SIZE: 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR

NAVFAC

STATE OF KENTUCKY
KEVIN D. MUSSIER
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SEAL

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100 North 6th Street
Philadelphia, PA 19106-1590
Tel: 215-923-2020 Fax: 215-574-0952

A/E INFO

APPROVED

FOR COMMANDER NAVFAC
ACTIVITY

SATISFACTORY TO DATE
CRK LMM/CRK KDM
PM/DM
BRANCH MANAGER
CHIEF ENG/ ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
DoDEA
NAVAL FACILITIES ENGINEERING COMMAND ~ WASHINGTON
MARINE CORPS BASE QUANTICO, VIRGINIA
MARINE CORPS BASE QUANTICO
QUANTICO, VA
REPLACE QUANTICO M/H SCHOOL
FIRST FLOOR - AREA 'F' - AIR DISTRIBUTION

SCALE: 1/8" = 1'-0"
PROJECT NO.: P-021
CONSTR. CONTR. NO. W91236-15-C-0023
NAVFAC DRAWING NO. 13091219
SHEET 465 OF 789
MH116

DRAW/FORM REVISION: 10 MARCH 2009

RTA SUBMISSION - 10/13/2016

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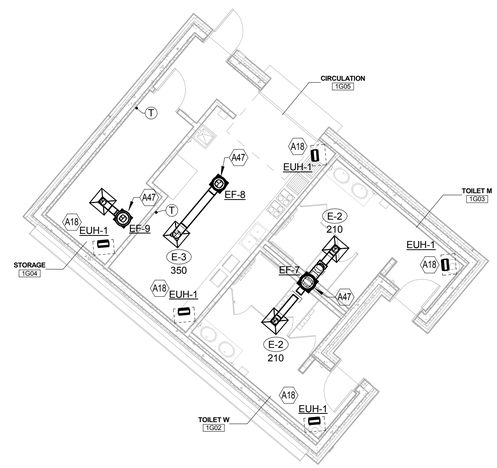
TAGGED NOTES	
A18	SUSPEND UNIT FROM STRUCTURE. THERMOSTAT PROVIDED WITH UNIT.
A47	EXHAUST FAN LOCATED ON ROOF.

R,G,D RUNOUT

MARK	BRANCH DUCT SIZE
E-1	6" DIA.
E-1A	6" DIA.
E-2	8" DIA.
E-3	10" DIA.
E-4	12" DIA.
E-5	14" DIA.
E-6	16" DIA.
E-7	10" DIA.
E-8	-
E-9	12" DIA
E-10	-
E-11	-
R-1	6" DIA.
R-1A	6" DIA.
R-2	8" DIA.
R-3	10" DIA.
R-4	12" DIA
R-5	14" DIA.
R-6	14" DIA.
R-7	16" DIA.

R,G,D RUNOUT

MARK	BRANCH DUCT SIZE
R-9	-
R-10	-
R-11	24"X12"
R-12	34"X30"
R-13	
S-1	6" DIA.
S-1A	6" DIA.
S-2	8" DIA.
S-3	10" DIA.
S-4	12" DIA.
S-5	-
S-6	-
S-7	34"x12"
S-8	24"X12"
S-9	12" DIA.
S-10	8"X6"
S-13	10" DIA.
S-14	36"X12"
S-15	16" DIA.
T-1	8x8



1 FIRST FLOOR AREA G - AIR DISTRIBUTION
SCALE: 1/8" = 1'-0"

0 2' 4' 8' 16' 24'

SCALE AT FULL SIZE: 1/8" = 1'-0"

G

SYM	DESCRIPTION	DATE	APPR

NAVFAC

STATE OF KENTUCKY
KEVIN D. MUSSER
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EWING COLE
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100 North 6th Street
Philadelphia, PA 19106-1590
Tel: 215-923-2020 Fax: 215-574-0952
A/E INFO

APPROVED

FOR COMMANDER NAVFAC
ACTIVITY

SATISFACTORY TO DATE
CRK LMM/CRK KDM
PM/DM
BRANCH MANAGER
CHIEF ENG/ ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
DoDEA
NAVAL FACILITIES ENGINEERING COMMAND ~ WASHINGTON
MARINE CORPS BASE QUANTICO, VIRGINIA
MARINE CORPS BASE QUANTICO
QUANTICO, VA

REPLACE QUANTICO M/H SCHOOL

FIRST FLOOR - AREA 'G' - AIR DISTRIBUTION

SCALE: 1/8" = 1'-0"
PROJECT NO.: P-021
CONSTR. CONTR. NO. W91236-15-C-0023
NAVFAC DRAWING NO. 13091220
SHEET 466 OF 789
MH117

DRAWFORM REVISION: 10 MARCH 2009

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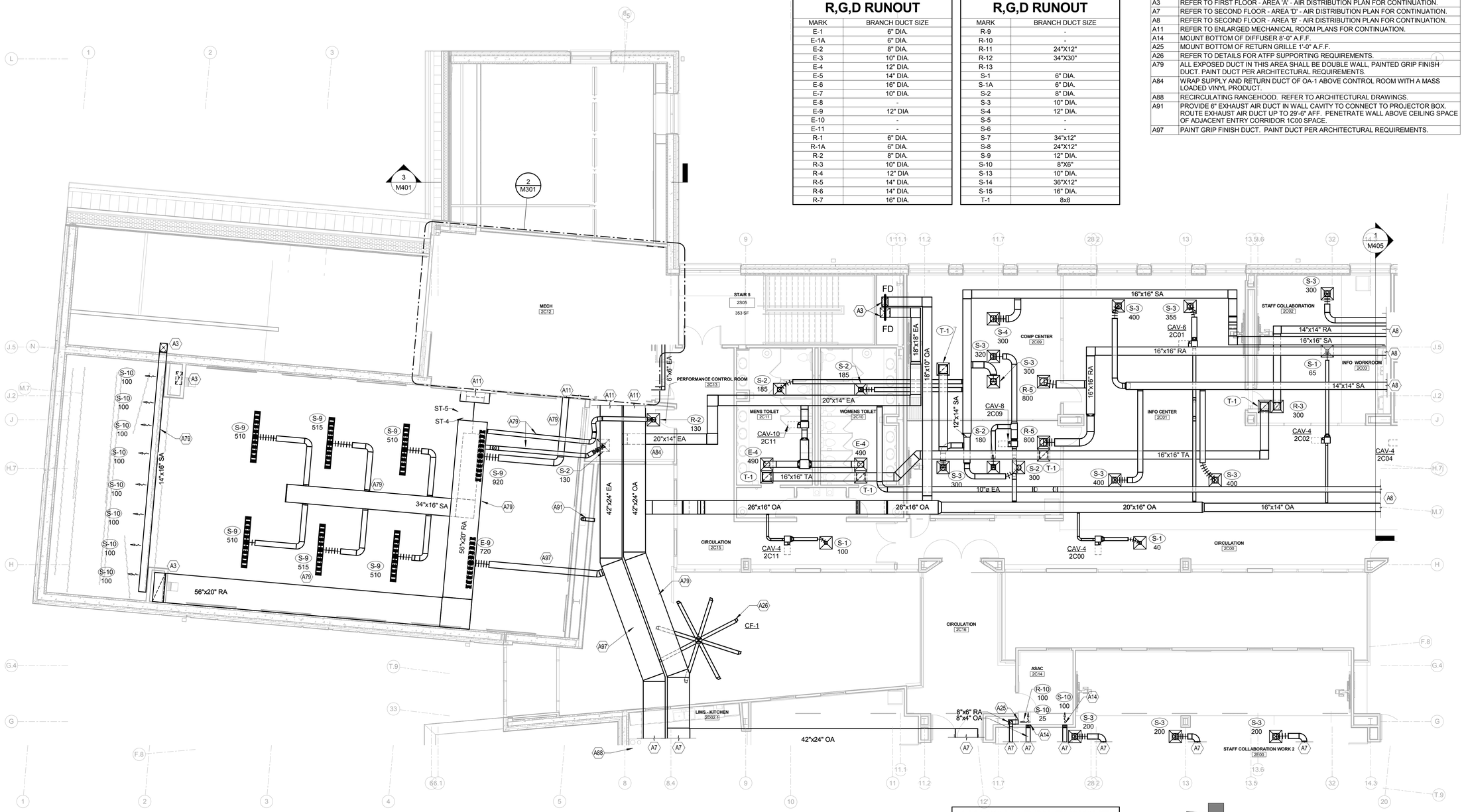
RTA SUBMISSION - 10/13/2016

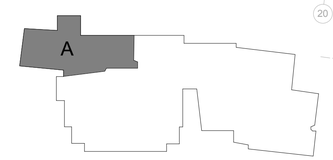


R,G,D RUNOUT	
MARK	BRANCH DUCT SIZE
E-1	6" DIA.
E-1A	6" DIA.
E-2	8" DIA.
E-3	10" DIA.
E-4	12" DIA.
E-5	14" DIA.
E-6	16" DIA.
E-7	10" DIA.
E-8	-
E-9	12" DIA
E-10	-
E-11	-
R-1	6" DIA.
R-1A	6" DIA.
R-2	8" DIA.
R-3	10" DIA.
R-4	12" DIA
R-5	14" DIA.
R-6	14" DIA.
R-7	16" DIA.

R,G,D RUNOUT	
MARK	BRANCH DUCT SIZE
R-9	-
R-10	-
R-11	24"X12"
R-12	34"X30"
R-13	
S-1	6" DIA.
S-1A	6" DIA.
S-2	8" DIA.
S-3	10" DIA.
S-4	12" DIA.
S-5	-
S-6	-
S-7	34"x12"
S-8	24"X12"
S-9	12" DIA.
S-10	8"X6"
S-13	10" DIA.
S-14	36"X12"
S-15	16" DIA.
T-1	8x8

TAGGED NOTES	
A3	REFER TO FIRST FLOOR - AREA 'A' - AIR DISTRIBUTION PLAN FOR CONTINUATION.
A7	REFER TO SECOND FLOOR - AREA 'D' - AIR DISTRIBUTION PLAN FOR CONTINUATION.
A8	REFER TO SECOND FLOOR - AREA 'B' - AIR DISTRIBUTION PLAN FOR CONTINUATION.
A11	REFER TO ENLARGED MECHANICAL ROOM PLANS FOR CONTINUATION.
A14	MOUNT BOTTOM OF DIFFUSER 8'-0" A.F.F.
A25	MOUNT BOTTOM OF RETURN GRILLE 1'-0" A.F.F.
A26	REFER TO DETAILS FOR ATFP SUPPORTING REQUIREMENTS.
A79	ALL EXPOSED DUCT IN THIS AREA SHALL BE DOUBLE WALL, PAINTED GRIP FINISH DUCT. PAINT DUCT PER ARCHITECTURAL REQUIREMENTS.
A84	WRAP SUPPLY AND RETURN DUCT OF OA-1 ABOVE CONTROL ROOM WITH A MASS LOADED VINYL PRODUCT.
A88	RECIRCULATING RANGEHOOD. REFER TO ARCHITECTURAL DRAWINGS.
A91	PROVIDE 6" EXHAUST AIR DUCT IN WALL CAVITY TO CONNECT TO PROJECTOR BOX. ROUTE EXHAUST AIR DUCT UP TO 29'-6" AFF. PENETRATE WALL ABOVE CEILING SPACE OF ADJACENT ENTRY CORRIDOR 1C00 SPACE.
A97	PAINT GRIP FINISH DUCT. PAINT DUCT PER ARCHITECTURAL REQUIREMENTS.

VAV/CAV BOX RUNOUT	
MARK	INLET SIZE
CAV-4	4"ø
CAV-5	5"ø
CAV-6	6"ø
CAV-8	8"ø
CAV-10	10"ø
CAV-14	14"ø
CAV-16	16"ø
VAV-4	4"ø
VAV-5	5"ø
VAV-6	6"ø
VAV-8	8"ø
VAV-10	10"ø
VAV-16	16"ø



0 2' 4' 8' 16' 24'

SCALE AT FULL SIZE: 1/8" = 1'-0"

PLAN NORTH

SECOND FLOOR AREA A - AIR DISTRIBUTION

SYM	DESCRIPTION	DATE	APPR

NAVFAC

STATE OF KENTUCKY
KEVIN D. MUSSIER
22296
LICENSED
PROFESSIONAL ENGINEER
SEAL

EWING COLE
Federal Reserve Bank Building
100 North 6th Street
Philadelphia, PA 19106-1590
Tel: 215-923-2020 Fax: 215-574-0952
A/E INFO

APPROVED

FOR COMMANDER NAVFAC
ACTIVITY

SATISFACTORY TO DATE
CRK LMM/CRK KDM
PM/DM
BRANCH MANAGER
CHIEF ENG/ ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
Do/DEA

NAVAL FACILITIES ENGINEERING COMMAND ~ WASHINGTON
MARINE CORPS BASE QUANTICO, VIRGINIA

MARINE CORPS BASE QUANTICO
QUANTICO, VA

REPLACE QUANTICO M/H SCHOOL

SECOND FLOOR - AREA 'A' - AIR DISTRIBUTION

SCALE: 1/8" = 1'-0"
PROJECT NO.: P-021
CONSTR. CONTR. NO. W91236-15-C-0023
NAVFAC DRAWING NO. 13091221
SHEET 467 OF 789
MH121

DRAWFORM REVISION: 10 MARCH 2009

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RTA SUBMISSION - 10/13/2016

TAGGED NOTES	
A1	REFER TO FIRST FLOOR - AREA 'B' - AIR DISTRIBUTION PLAN FOR CONTINUATION.
A6	REFER TO FIRST FLOOR - AREA 'C' - AIR DISTRIBUTION PLAN FOR CONTINUATION.
A7	REFER TO SECOND FLOOR - AREA 'D' - AIR DISTRIBUTION PLAN FOR CONTINUATION.
A9	REFER TO SECOND FLOOR - AREA 'A' - AIR DISTRIBUTION PLAN FOR CONTINUATION.
A10	REFER TO SECOND FLOOR - AREA 'E' - AIR DISTRIBUTION PLAN FOR CONTINUATION.
A26	REFER TO DETAILS FOR ATFP SUPPORTING REQUIREMENTS.

R,G,D RUNOUT

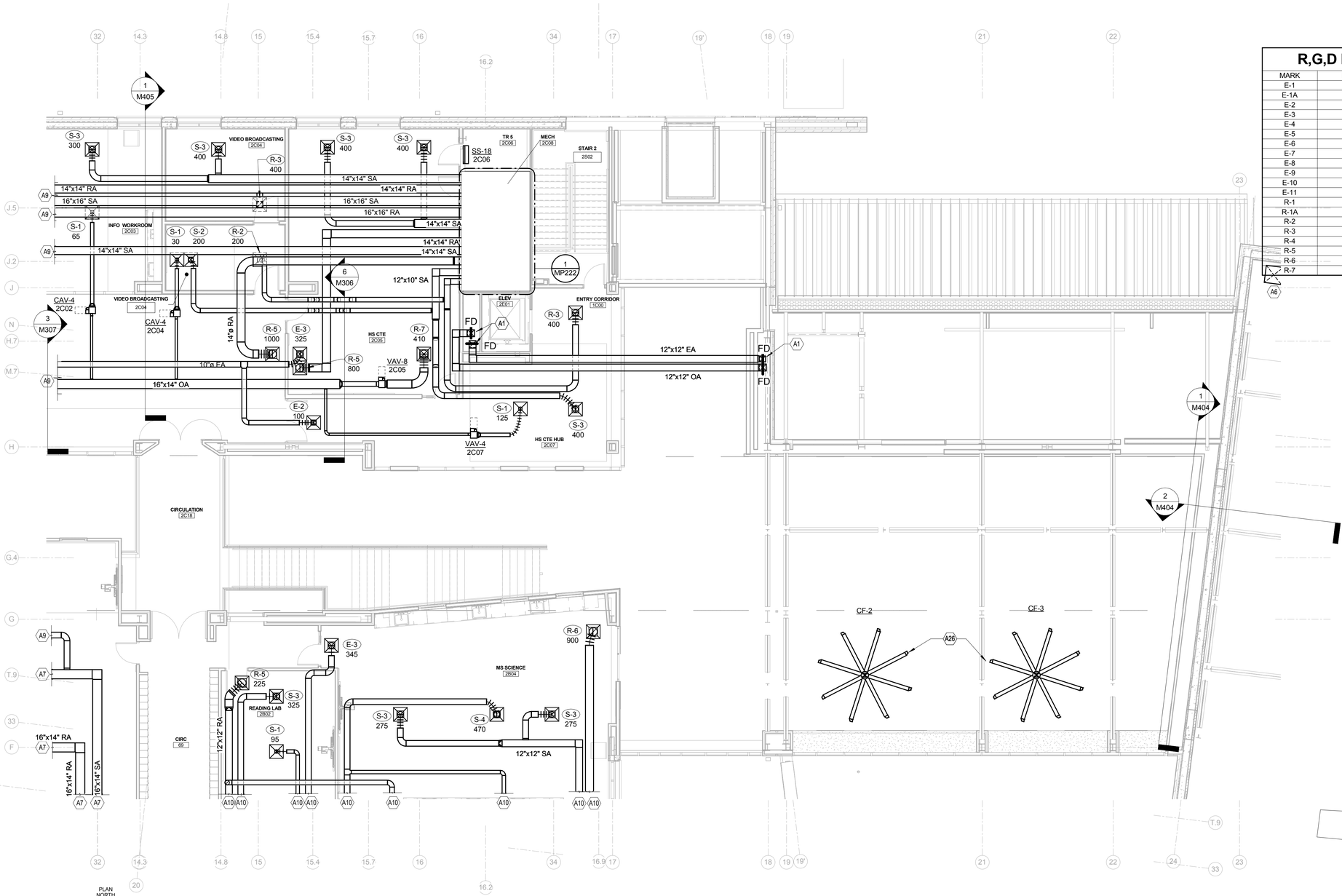
MARK	BRANCH DUCT SIZE
E-1	6" DIA.
E-1A	6" DIA.
E-2	8" DIA.
E-3	10" DIA.
E-4	12" DIA.
E-5	14" DIA.
E-6	16" DIA.
E-7	10" DIA.
E-8	-
E-9	12" DIA
E-10	-
E-11	-
R-1	6" DIA.
R-1A	6" DIA.
R-2	8" DIA.
R-3	10" DIA.
R-4	12" DIA
R-5	14" DIA.
R-6	14" DIA.
R-7	16" DIA.

R,G,D RUNOUT

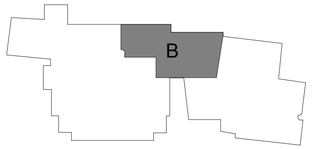
MARK	BRANCH DUCT SIZE
R-9	-
R-10	-
R-11	24"X12"
R-12	34"X30"
R-13	
S-1	6" DIA.
S-1A	6" DIA.
S-2	8" DIA.
S-3	10" DIA.
S-4	12" DIA.
S-5	-
S-6	-
S-7	34"x12"
S-8	24"X12"
S-9	12" DIA.
S-10	8"X6"
S-13	10" DIA.
S-14	36"X12"
S-15	16" DIA.
T-1	8x8

VAV/CAV BOX RUNOUT

MARK	INLET SIZE
CAV-4	4"ø
CAV-5	5"ø
CAV-6	6"ø
CAV-8	8"ø
CAV-10	10"ø
CAV-14	14"ø
CAV-16	16"ø
VAV-4	4"ø
VAV-5	5"ø
VAV-6	6"ø
VAV-8	8"ø
VAV-10	10"ø
VAV-16	16"ø



SECOND FLOOR AREA B - AIR DISTRIBUTION



0 2' 4' 8' 16' 24'

SCALE AT FULL SIZE: 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR

NAVFAC

STATE OF KENTUCKY
KEVIN D. MUSSIER
22296
LICENSED
PROFESSIONAL ENGINEER
SEAL

EWING COLE
Federal Reserve Bank Building
100 North 6th Street
Philadelphia, PA 19106-1590
Tel: 215-923-2020 Fax: 215-574-0952
A/E INFO

APPROVED

FOR COMMANDER NAVFAC
ACTIVITY

SATISFACTORY TO DATE
CRK LMM/CRK KDM
PM/DM
BRANCH MANAGER
CHIEF ENG/ ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ WASHINGTON
DoDEA
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE QUANTICO, VIRGINIA
MARINE CORPS BASE QUANTICO
QUANTICO, VA
REPLACE QUANTICO M/H SCHOOL
SECOND FLOOR - AREA 'B' - AIR DISTRIBUTION

SCALE: 1/8" = 1'-0"
PROJECT NO.: P-021
CONSTR. CONTR. NO. W91236-15-C-0023
NAVFAC DRAWING NO. 13091222
SHEET 468 OF 789
MH122

DRAWFORM REVISION: 10 MARCH 2009

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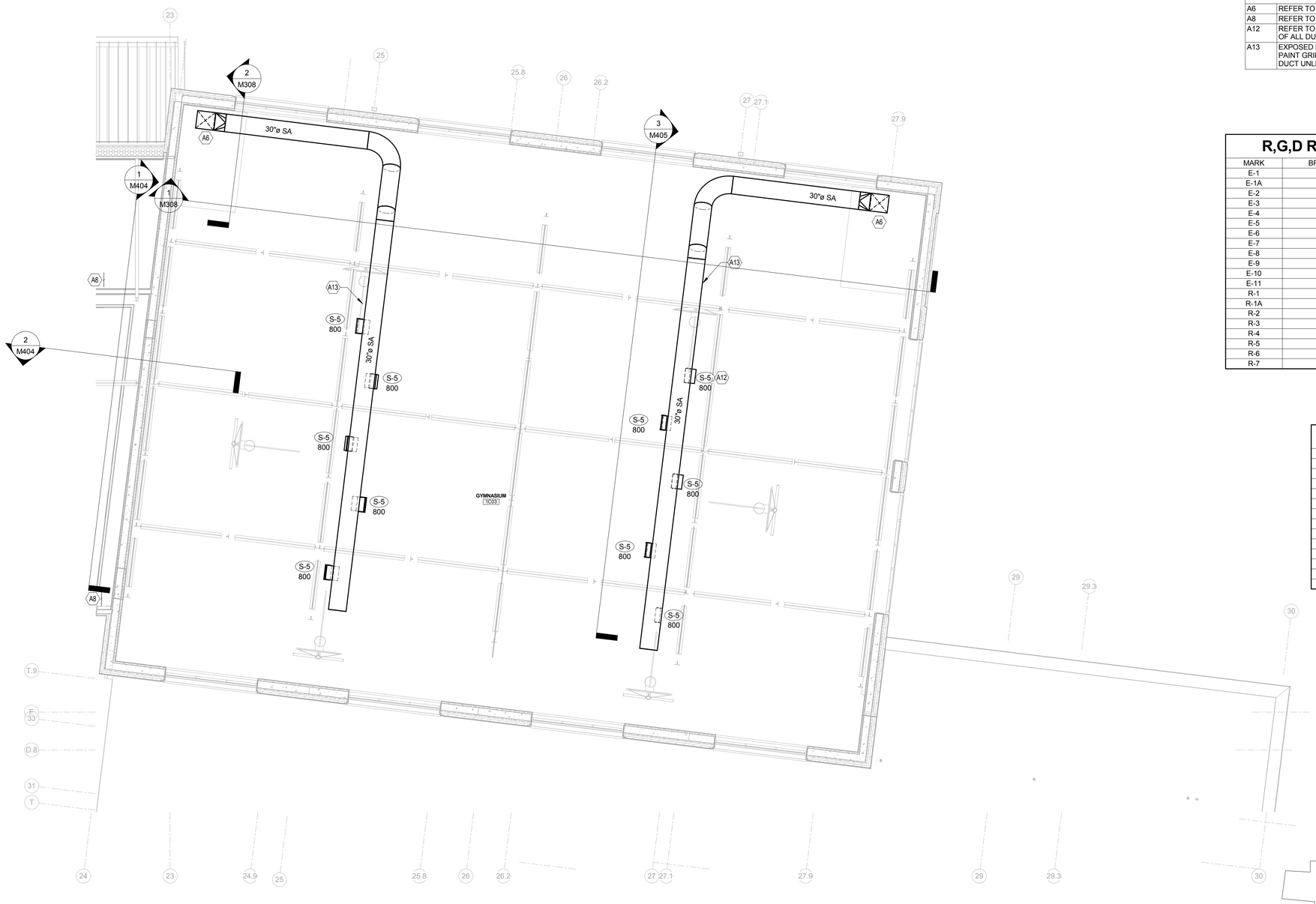
RTA SUBMISSION - 10/13/2016



TAGGED NOTES	
A6	REFER TO FIRST FLOOR - AREA 'C' - AIR DISTRIBUTION PLAN FOR CONTINUATION.
A8	REFER TO SECOND FLOOR - AREA 'B' - AIR DISTRIBUTION PLAN FOR CONTINUATION.
A12	REFER TO REGISTER DUCT TAKEOFF DETAIL FOR MOUNTING INFORMATION. TYPICAL OF ALL DUCT MOUNTED REGISTERS.
A13	EXPOSED DUCT WORK SHALL BE DOUBLE WALL WITH PERFORATED LINER. PROVIDE PAINT GRIP FINISH. PAINT COLOR SELECTED BY ARCHITECT. TYPICAL OF ALL EXPOSED DUCT UNLESS OTHERWISE NOTED.

R,G,D RUNOUT

MARK	BRANCH DUCT SIZE
E-1	6" DIA.
E-1A	6" DIA.
E-2	8" DIA.
E-3	10" DIA.
E-4	12" DIA.
E-5	14" DIA.
E-6	16" DIA.
E-7	10" DIA.
E-8	-
E-9	12" DIA
E-10	-
E-11	-
R-1	6" DIA.
R-1A	6" DIA.
R-2	8" DIA.
R-3	10" DIA.
R-4	12" DIA
R-5	14" DIA.
R-6	14" DIA.
R-7	16" DIA.

R,G,D RUNOUT

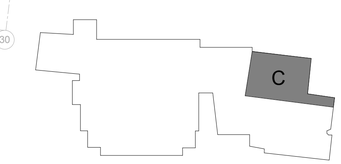
MARK	BRANCH DUCT SIZE
R-9	-
R-10	-
R-11	24"X12"
R-12	34"X30"
R-13	
S-1	6" DIA.
S-1A	6" DIA.
S-2	8" DIA.
S-3	10" DIA.
S-4	12" DIA.
S-5	-
S-6	-
S-7	34"x12"
S-8	24"X12"
S-9	12" DIA.
S-10	8"X6"
S-13	10" DIA.
S-14	36"X12"
S-15	16" DIA.
T-1	8x8

VAV/CAV BOX RUNOUT

MARK	INLET SIZE
CAV-4	4"ø
CAV-5	5"ø
CAV-6	6"ø
CAV-8	8"ø
CAV-10	10"ø
CAV-14	14"ø
CAV-16	16"ø
VAV-4	4"ø
VAV-5	5"ø
VAV-6	6"ø
VAV-8	8"ø
VAV-10	10"ø
VAV-16	16"ø

PLAN NORTH

SECOND FLOOR AREA C - AIR DISTRIBUTION



0 2' 4' 8' 16' 24'

SCALE AT FULL SIZE: 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR

NAVFAC

STATE OF KENTUCKY
KEVIN D. MUSSLER
22296
LICENSED
PROFESSIONAL ENGINEER
SEAL

EWING COLE
Federal Reserve Bank Building
100 North 6th Street
Philadelphia, PA 19106-1590
Tel: 215-923-2020 Fax: 215-574-0952

A/E INFO

APPROVED

FOR COMMANDER NAVFAC
ACTIVITY

SATISFACTORY TO DATE

CRK LMM/CRK KDM

PM/DM

BRANCH MANAGER

CHIEF ENG/ ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
DoDEA
NAVAL FACILITIES ENGINEERING COMMAND ~ WASHINGTON
MARINE CORPS BASE QUANTICO, VIRGINIA
MARINE CORPS BASE QUANTICO
QUANTICO, VA
REPLACE QUANTICO M/H SCHOOL
SECOND FLOOR - AREA 'C' - AIR DISTRIBUTION

SCALE: 1/8" = 1'-0"
PROJECT NO.: P-021
CONSTR. CONTR. NO. W91236-15-C-0023
NAVFAC DRAWING NO. 13091223
SHEET 469 OF 789
MH123

DRAWFORM REVISION: 10 MARCH 2009

RTA SUBMISSION - 10/13/2016

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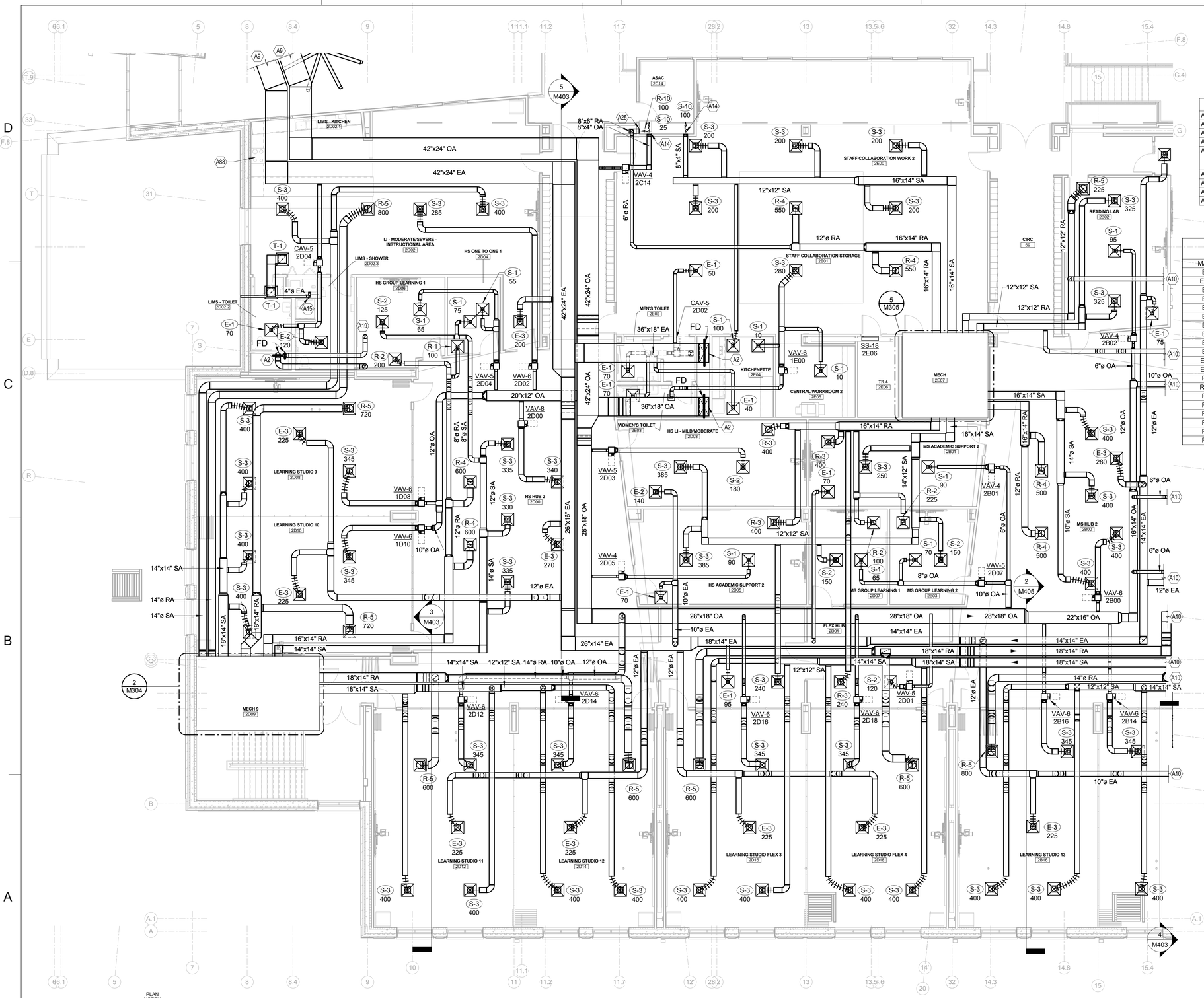


SECOND FLOOR AREA D - AIR DISTRIBUTION

TAGGED NOTES	
A2	REFER TO FIRST FLOOR - AREA 'D' - AIR DISTRIBUTION PLAN FOR CONTINUATION.
A9	REFER TO SECOND FLOOR - AREA 'A' - AIR DISTRIBUTION PLAN FOR CONTINUATION.
A10	REFER TO SECOND FLOOR - AREA 'E' - AIR DISTRIBUTION PLAN FOR CONTINUATION.
A14	MOUNT BOTTOM OF DIFFUSER 8'-0" A.F.F.
A15	PROVIDE 4" DRYER EXHAUST AIR DUCT. ROUTE TO ALUMINUM DRYER WALL CAP WITH BACKDRAFT DAMPER. DO NOT INSTALL MORE THAN THREE 90 DEGREE BENDS. REFER TO ARCHITECTURAL ELEVATION DRAWINGS FOR VENT CAP MOUNTING HEIGHT.
A19	REFER TO ROOF PLAN - HVAC FOR CONTINUATION.
A25	MOUNT BOTTOM OF RETURN GRILLE 1'-0" A.F.F.
A88	RECIRCULATING RANGEHOOD. REFER TO ARCHITECTURAL DRAWINGS.
A97	PAINT GRIP FINISH DUCT. PAINT DUCT PER ARCHITECTURAL REQUIREMENTS.

R,G,D RUNOUT

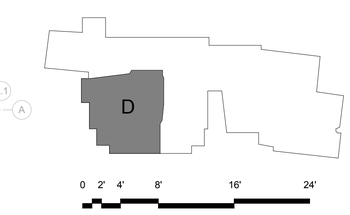
MARK	BRANCH DUCT SIZE
E-1	6" DIA.
E-1A	6" DIA.
E-2	8" DIA.
E-3	10" DIA.
E-4	12" DIA.
E-5	14" DIA.
E-6	16" DIA.
E-7	10" DIA.
E-8	-
E-9	12" DIA
E-10	-
E-11	-
R-1	6" DIA.
R-1A	6" DIA.
R-2	8" DIA.
R-3	10" DIA.
R-4	12" DIA
R-5	14" DIA.
R-6	14" DIA.
R-7	16" DIA.

R,G,D RUNOUT

MARK	BRANCH DUCT SIZE
R-9	-
R-10	-
R-11	24"X12"
R-12	34"X30"
R-13	-
S-1	6" DIA.
S-1A	6" DIA.
S-2	8" DIA.
S-3	10" DIA.
S-4	12" DIA.
S-5	-
S-6	-
S-7	34"x12"
S-8	24"X12"
S-9	12" DIA.
S-10	8"X6"
S-13	10" DIA.
S-14	36"X12"
S-15	16" DIA.
T-1	8x8

VAV/CAV BOX RUNOUT

MARK	INLET SIZE
CAV-4	4"ø
CAV-5	5"ø
CAV-6	6"ø
CAV-8	8"ø
CAV-10	10"ø
CAV-14	14"ø
CAV-16	16"ø
VAV-4	4"ø
VAV-5	5"ø
VAV-6	6"ø
VAV-8	8"ø
VAV-10	10"ø
VAV-16	16"ø



SCALE AT FULL SIZE: 1/8" = 1'-0"

SYM	DESCRIPTION	DATE	APPR

NAVFAC

STATE OF KENTUCKY
KEVIN D. MUSSIER
22296
LICENSED
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SEAL

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Tel: 215-923-2020 Fax: 215-574-0952
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE
CRK LMM/CRK KDM
PM/DM
BRANCH MANAGER
CHIEF ENG/ ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
DxOEA
NAVAL FACILITIES ENGINEERING COMMAND ~ WASHINGTON
MARINE CORPS BASE QUANTICO, VIRGINIA
MARINE CORPS BASE QUANTICO
QUANTICO, VA
REPLACE QUANTICO M/H SCHOOL
SECOND FLOOR - AREA 'D' - AIR DISTRIBUTION

SCALE: 1/8" = 1'-0"
PROJECT NO.: P-021
CONSTR. CONTR. NO. W91236-15-C-0023
NAVFAC DRAWING NO. 13091224
SHEET 470 OF 789
MH124
DRAWFORM REVISION: 10 MARCH 2009

RTA SUBMISSION - 10/13/2016

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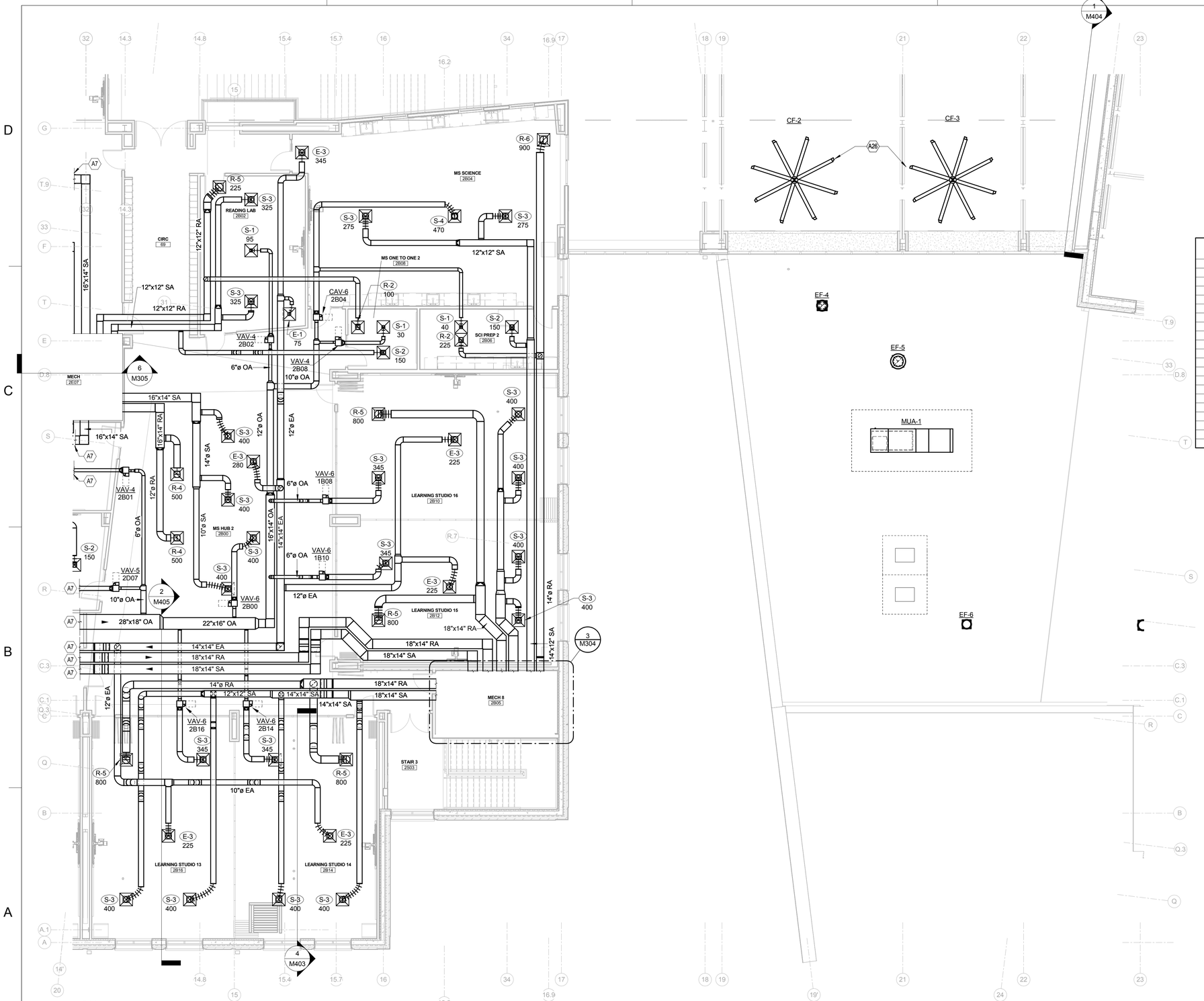


TAGGED NOTES	
A7	REFER TO SECOND FLOOR - AREA 'D' - AIR DISTRIBUTION PLAN FOR CONTINUATION.
A26	REFER TO DETAILS FOR ATFP SUPPORTING REQUIREMENTS.

R,G,D RUNOUT

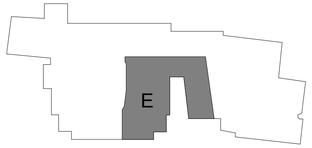
MARK	BRANCH DUCT SIZE
E-1	6" DIA.
E-1A	6" DIA.
E-2	8" DIA.
E-3	10" DIA.
E-4	12" DIA.
E-5	14" DIA.
E-6	16" DIA.
E-7	10" DIA.
E-8	-
E-9	12" DIA
E-10	-
E-11	-
R-1	6" DIA.
R-1A	6" DIA.
R-2	8" DIA.
R-3	10" DIA.
R-4	12" DIA
R-5	14" DIA.
R-6	14" DIA.
R-7	16" DIA.

R,G,D RUNOUT

MARK	BRANCH DUCT SIZE
R-9	-
R-10	-
R-11	24"X12"
R-12	34"X30"
R-13	
S-1	6" DIA.
S-1A	6" DIA.
S-2	8" DIA.
S-3	10" DIA.
S-4	12" DIA.
S-5	-
S-6	
S-7	34"x12"
S-8	24"X12"
S-9	12" DIA.
S-10	8"X6"
S-13	10" DIA.
S-14	36"X12"
S-15	16" DIA.
T-1	8x8

VAV/CAV BOX RUNOUT

MARK	INLET SIZE
CAV-4	4"ø
CAV-5	5"ø
CAV-6	6"ø
CAV-8	8"ø
CAV-10	10"ø
CAV-14	14"ø
CAV-16	16"ø
VAV-4	4"ø
VAV-5	5"ø
VAV-6	6"ø
VAV-8	8"ø
VAV-10	10"ø
VAV-16	16"ø



0 2' 4' 8' 16' 24'

SCALE AT FULL SIZE: 1/8" = 1'-0"

PLAN NORTH

SECOND FLOOR AREA E - AIR DISTRIBUTION

SYM	DESCRIPTION	DATE	APPR

NAVFAC

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KEVIN D. MUSSIER
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A/E INFO

APPROVED

FOR COMMANDER NAVFAC
ACTIVITY

SATISFACTORY TO DATE
CRK LMM/CRK KDM
PM/DM
BRANCH MANAGER
CHIEF ENG/ ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
DoDEA

NAVAL FACILITIES ENGINEERING COMMAND ~ WASHINGTON
MARINE CORPS BASE QUANTICO, VIRGINIA

MARINE CORPS BASE QUANTICO
QUANTICO, VA

REPLACE QUANTICO M/H SCHOOL

SECOND FLOOR - AREA 'E' - AIR DISTRIBUTION

SCALE: 1/8" = 1'-0"
PROJECT NO.: P-021
CONSTR. CONTR. NO. W91236-15-C-0023
NAVFAC DRAWING NO. 13091225
SHEET 471 OF 789
MH125

DRAWFORM REVISION: 10 MARCH 2009

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RTA SUBMISSION - 10/13/2016