HVAC PIPING LEGEND

Symbol	Description
BO	BLEED OFF
C	COIL CONDENSATE DRAIN
CA	COMPRESSED AIR
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CW	COLD WATER
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT TO ATMOSPHERE
GR	GLYCOL RETURN
GS	GLYCOL SUPPLY
GHWR	GLYCOL HEATING WATER RETURN
GHWS	GLYCOL HEATING WATER SUPPLY
(HT)	HEAT-TRACED PIPING
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
K	TYPE K COPPER HEATING WATER
MW	MAKE-UP WATER
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RV	REFRIGERANT VENT TO ATMOSPHERE
V	VENT TO ATMOSPHERE
LPS	STEAM 0 TO 15 PSIG
MPS	STEAM 16 TO 60 PSIG
PC	PUMPED CONDENSATE
LPC	CONDENSATE 0 TO 15 PSIG
MPC	CONDENSATE 16 TO 60 PSIG

VALVE SYMBOLS

- ANGLE VALVE
- AUTOMATIC FLOW CONTROL VALVE
- BALL VALVE
- BUTTERFLY CONTROL VALVE
- BUTTERFLY VALVE
- CALIBRATED BALANCING VALVE
- CVS — CONTROL VALVE STATION
- GATE VALVE
- GLOBE VALVE
- HOSE END BALL DRAIN VALVE
- HOSE END GATE DRAIN VALVE
- M — MOTORIZED BUTTERFLY VALVE
- NEEDLE VALVE
- PLUG VALVE OR COCK
- PRESSURE REDUCING VALVE
- PRS — PRESSURE REDUCING STATION
- RELIEF VALVE
- S — SOLENOID VALVE
- SILENT CHECK VALVE
- SWING CHECK VALVE
- THREE WAY CONTROL VALVE
- TWO WAY CONTROL VALVE
- VERTICAL LIFT CHECK VALVE

PIPING SYMBOLS

- DIRT POCKET
- SPOOL PIECE
- Y-TYPE STRAINER
- Y-TYPE STRAINER WITH BALL DRAIN VALVE
- Y-TYPE STRAINER WITH CAPPED DRAIN VALVE
- BASKET STRAINER, SIMPLEX
- BASKET STRAINER, DUPLEX
- EXPANSION JOINT
- FLEXIBLE CONNECTION
- PIPE ANCHOR
- PIPE GUIDE
- UNION
- BLIND FLANGE OR PLUG
- CAP
- HOSE END DRAIN
- THERMOMETER OR TEMPERATURE GAUGE
- PT — PRESSURE AND TEMPERATURE TEST PLUG
- PRESSURE GAUGE ASSEMBLY
- MANUAL AIR VENT VALVE
- A — AUTO AIR VENT VALVE (PIPE DISCHARGE TO DRAIN)
- STEAM TRAP ASSEMBLY (DETAIL 1, DWG. M3-7)
- DIRECTION OF FLOW
- PITCH DOWN IN DIRECTION OF ARROW
- CONNECTION, SIDE
- CONNECTION, BOTTOM
- CONNECTION, TOP
- OFFSET
- ELBOW TURNED UP OR TEE UP & DOWN
- ELBOW TURNED DOWN OR TEE UP & DOWN
- VALVE IN VERTICAL RISER
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- PUMP (IN SCHEMATIC)
- FLOW METER
- CATHOTIC PROTECTION TEST STATION

DUCT AND EQUIPMENT SYMBOLS

- 24x12 / 24x12 — NEW RECTANGULAR METAL DUCT:
  1) FIRST DIMENSION IS SIDE SHOWN
  2) ALL DUCTWORK SIZES SHOWN ARE OUTSIDE DIMENSIONS
  3) GALVANIZED UNLESS NOTED
- 6"D / 6"D — NEW ROUND DUCT (SEE NOTES ABOVE)
- 24x12 / 24x12 — NEW OVAL DUCT (SEE NOTES ABOVE)
- ROUND DUCT ELBOW TURNED UP
- RECTANGULAR ELBOW TURNED UP, SUPPLY OR OUTSIDE AIR DUCT
- RECTANGULAR ELBOW TURNED UP, EXHAUST OR RETURN AIR DUCT
- ROUND DUCT ELBOW TURNED DOWN
- RECTANGULAR ELBOW TURNED DOWN, SUPPLY OR OUTSIDE AIR DUCT
- RECTANGULAR ELBOW TURNED DOWN, EXHAUST OR RETURN AIR DUCT
- RADIUS ELBOW OR RECTANGULAR ELBOW WITH TURNING VANES
- RECTANGULAR ELBOW OR TRANSFER DUCT WITHOUT TURNING VANES
- RADIUS TEE DUCT JUNCTION
- MITERED TEE DUCT JUNCTION WITH TURNING VANES
- UP — DUCT RISE IN DIRECTION OF ARROW
- DOWN — DUCT DROP IN DIRECTION OF ARROW
- DUCT SIZE TRANSITION
  FOB = FLAT ON BOTTOM
  FOT = FLAT ON TOP
- STANDARD LOW VELOCITY BRANCH, NO SPLITTER WITH 45° FLARE
- EXTRACTOR WITH ADJUSTABLE OPERATOR
- FLARED OR CONICAL TAKEOFF
- AD — ACCESS DOOR/PANEL (SIDE OR BOTTOM)
- FLEXIBLE DUCT
- ACOUSTICALLY LINED DUCT
- FLEXIBLE CONNECTION
- EXHAUST, RETURN OR TRANSFER AIR REGISTER OR GRILLE
- SUPPLY AIR REGISTER OR GRILLE
- SQUARE (4-WAY) / ROUND — CEILING SUPPLY DIFFUSERS (AIR FLOW DIRECTION BY ARROWS)
- 8"PD — ROUND NECK SIZE INDICATED; 12x12TG — RECTANGULAR SIZE INDICATED — AIR DIFFUSER, GRILLE OR REGISTER

TAGS AND TITLES

- DETAIL DESIGNATION
- TITLE OF DETAIL — DETAIL TITLE
- SCALE OF DETAIL
- WHERE DETAIL OR SECTION IS DRAWN
- WHERE DETAIL OR SECTION IS REFERENCED
- EQUIPMENT TAG / EQUIPMENT NUMBER — EQUIPMENT IDENTIFICATION TAG (SEE SCHEDULE)
- SECTION DESIGNATION

DUCT AND EQUIPMENT SYMBOLS

- SQUARE / RECTANGULAR — CEILING RETURN OR EXHAUST REGISTER OR GRILLE
- TYPE TD T-BAR DIFFUSER (PROVIDE VOLUME DAMPER AT DUCT TAKEOFF)
- DG / CFM — (DG) DOOR GRILLE (UC) UNDER CUT
- LOUVER SIZE / CFM — AIR LOUVER, (BOTTOM OF DUCT TO DRAIN TOWARD LOUVER)
- M — MOTOR OPERATED DAMPER ASSEMBLY (PARALLEL BLADE)WITH LIMIT SWITCHES & WMS
- DUCT COIL (SHADED). PROVIDE CEILING & DUCT ACCESS ON COIL INLET SIDE
- VD — VOLUME DAMPER (MANUAL) PROVIDE CEILING ACCESS FOR ADJUST. PROVIDE EXTERNAL QUADRANT & WING NUT FOR SETTING & DETERMINING POSITION OF DAMPER BLADE
- FD — FIRE DAMPER PROVIDE CEILING & DUCT ACCESS
- SFD — COMBINATION SMOKE & FIRE DAMPER PROVIDE CEILING & DUCT ACCESS
- BDD — BACKDRAFT DAMPER PROVIDE CEILING AND DUCT ACCESS
- M — MOTOR OPERATED DAMPER PROVIDE CEILING & DUCT ACCESS
- S — SMOKE DAMPER W/ELECTRIC ACTUATOR PROVIDE CEILING AND DUCT ACCESS
- VIEW 1 / VIEW 2 — DUCT SILENCER
  VIEW 1: BAFFLES PARALLEL TO PLANE VIEWED
  VIEW 2: BAFFLES PERPENDICULAR TO PLANE VIEWED
- VAV — VAV TERMINAL UNIT
- VAV — VAV TERMINAL UNIT WITH SOUND ATTENUATOR
- FAN-POWERED W/COIL / VAV — VAV TERMINAL UNIT WITH COIL
- CONNECTION TO EXISTING

CONTROL SYMBOLS

Symbol	Description
DDC	DDC CONTROL PANEL
DP	DIFFERENTIAL PRESSURE SENSOR
FE	FLOW SENSOR
FS	FLOW SWITCH
FZ	FREEZE STAT
H	HUMIDISTAT OR HUMIDITY SENSOR
LL	LOW LIMIT TEMPERATURE SENSOR
HL	HIGH LIMIT TEMPERATURE SENSOR
HP	HIGH PROPANE SENSOR
LO	LOW LIMIT OXYGEN SENSOR
PS	PRESSURE SWITCH
SW	FAN SWITCH ON WALL
SD	DUCT SMOKE DETECTOR, (SEE ELECTRICAL DWG)
SP	STATIC PRESSURE SENSOR
T	VAV THERMOSTAT OR TEMPERATURE SENSOR
T	ELECTRIC THERMOSTAT
TE	TEMPERATURE ELEMENT
VFD	VARIABLE FREQUENCY DRIVE
M	ELECTRIC ACTUATOR (MOTOR)
M	ELECTRIC ACTUATOR (MOTOR) WITH HEAT SHIELD
	OPPOSED BLADE DAMPER
	PARALLEL BLADE DAMPER
S	SMOKE DAMPER ACTUATOR

ABBREVIATIONS

AC	AIR CONDITIONING, AIR COMPRESSOR
ACC	AIR COOLED CONDENSER
ACFM	ACTUAL CFM
ACH	AIR COOLED CHILLER
ACU	AIR CONDITIONING UNIT, THRU WALL
AD	ACCESS DOOR, AIR DRYER
AF	AIRFOIL(FAN), AIR FILTER
AFF	ABOVE FINISHED FLOOR
AG	ALUMINUM GRILLE
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AL	ALUMINUM DUCT
AO	ANALOG OUTPUT
AR	ALUMINUM REGISTER
AS	AIR SEPARATOR
BAU	BOTTOM ANGULAR UPBLAST (FAN)
BDD	BACKDRAFT DAMPER
BH	BOTTOM HORIZONTAL(FAN DISCHARGE)
BHP	BRAKE HORSEPOWER
BI	BACKWARD INLINE (FAN), BLACK IRON
BLDG	BUILDING
BOC	BOTTOM OF CEILING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STRUCTURE
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
C	CONDENSATE
CA	COMPRESSED AIR
CAP	CAPACITY
CC	COOLING COIL
CD	CIRCULAR DIFFUSER
CF	CLEAN FILTERS, CENTER FLARE (DUCT)
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CI	CAST IRON
CL	CENTERLINE
CLG	CEILING, COOLING
COL	COLUMN
COMP	COMPRESSOR
CONN	CONNECTION
CONT	CONTINUATION
CT	COOLING TOWER
CU	CUBIC
CUH	CABINET UNIT HEATER
CV	CONSTANT VOLUME
CVRH	CONSTANT VOLUME WITH REHEAT
CVS	CONTROL VALVE STATION
D&T	DRIP AND TRAP
D, DIA	DIAMETER
DAC	DOOR AIR CURTAIN
DB	DRY BULB
DC	DRY COOLER
DCT	DAMAGE CONTROL TRAINER
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREES
DF	DIRTY FILTERS
DI	DIGITAL INPUT, DOUBLE INLET (FAN)
DIFF	DIFFUSER
DN	DOWN
DO	DIGITAL OUTPUT
DP	DIFFERENTIAL PRESSURE, DEW POINT
DPS	DIFFERENTIAL PRESSURE SWITCH
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
DS	DUCT SILENCER
DW	DOUBLE WIDTH (FAN)
DWG(S)	DRAWING, DRAWINGS
DX	DIRECT EXPANSION (COIL)
E	EXHAUST AIR
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	EXHAUST GRILLE (STEEL)
EGT	ENTERING GLYCOL TEMPERATURE
EL	ELEVATION
ELEC	ELECTRIC, ELECTRICAL
ENT	ENTERING
EQPM	EQUIPMENT
ER	EXHAUST REGISTER (STEEL)
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
F	FAHRENHEIT
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FFT	FIRE FIGHTING TRAINER
FL	FLOOR
FLA	FULL LOAD AMPS
FM	FLOW METER
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FP	FIRE PROTECTION
FPM	FEET PER MINUTE
FS	FLOW SWITCH
FT (')	FEET
FTR	FIN TUBE RADIATION
FZST	FREEZESTAT
GA	GAUGE
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HEIGHT
HC	HEATING COIL
HORIZ	HORIZONTAL
HP	HORSEPOWER, HEAT PUMP
HR	HOUR
HRC	HEAT RECLAIM COIL
HRR	HEAT RECOVERY RETURN
HRS	HEAT RECOVERY SUPPLY
HT	HEAT TRACING (PIPE)
HTG	HEATING
HV	HEATING VENTILATING
HVAC	HEATING VENTILATING AIR CONDITIONING
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
HZ	HERTZ
IE	INVERT ELEVATION
IN (")	INCH
K	TYPE K COPPER PIPING
KW	KILOWATT
KWH	KILOWATT HOUR
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LB	POUND(S)
LD	LOUVERED DIFFUSER
LED	LIGHT EMITTING DIODE
LGT	LEAVING GLYCOL TEMPERATURE
(L)	LINED DUCT (1" THICK, UNLESS NOTED)
LLR	LOW LIMIT RELAY
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE
MA	MIXED AIR, MILLI AMPS (CONTROLS)
MAX	MAXIMUM
MBH	THOUSAND BTU'S PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MIN	MINIMUM
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED, NOISE CRITERIA
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NO (#)	NUMBER
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
OLTD	OVERLOAD TRIP DELTA (AMPS)
OLTY	OVERLOAD TRIP WYE (AMPS)
OPNG	OPENING
OV	OUTLET VELOCITY
P	PUMP
%	PERCENT
PD	PERFORATED DIFFUSER, PRESSURE DROP
PH	PHASE
PLBG	PLUMBING
PNUE	PNEUMATIC
PR	PRESSURE
PRESS	PRESSURE
PRV	PRESSURE RELIEF VALVE
PSI(G)	POUNDS PER SQUARE INCH (GAUGE)
PVG	POLYVINYL COATED GALVANIZED DUCT
R	RETURN
RA	RETURN AIR
RD	ROUND DIFFUSER
RE	RETURN EXHAUST
REF	REFERENCE
RF	RETURN FAN
RG	RETURN GRILLE (STEEL)
RLA	RUNNING LOAD AMPS
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER (STEEL)
RTD	RESISTANCE TEMPERATURE DETECTOR
S	SUPPLY
SA	SUPPLY AIR
SCFM	STANDARD CFM
SD	SMOKE DETECTOR
SENS	SENSIBLE
SF	SUPPLY FAN
SG	SUPPLY GRILLE
SI	SINGLE INLET (FAN)
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SQ	SQUARE
SR	SUPPLY REGISTER
SS	STAINLESS STEEL
STD	STANDARD
STM	STEAM
SW	WALL FAN SWITCH, SINGLE WIDTH (FAN)
SWP	SECONDARY (HOT) WATER PUMP
T	TANK
TA	TRANSFER AIR
TAU	TOP ANGULAR UPBLAST (FAN)
TD	T-BAR DIFFUSER
TE	TOILET EXHAUST
TEMP	TEMPERATURE
TG	TRANSFER GRILLE (STEEL)
TH	TOP HORIZONTAL
TOD	TOP OF DUCT
TOS	TOP OF STRUCTURE
TS	TIP SPEED
TSP	TOTAL STATIC PRESSURE
TT	TEMPERATURE TRANSMITTER
TYP	TYPICAL
UB	UPBLAST
UH	UNIT HEATER
V	VENT, VOLTS
VA	VALVE
VAV	VARIABLE AIR VOLUME
VAVRH	VARIABLE AIR VOLUME WITH REHEAT
VCV	VARIABLE CONSTANT VOLUME
VEL	VELOCITY
VERT	VERTICAL
VF	VENT FAN
VFD	VARIABLE FREQUENCY DRIVE
VP	VELOCITY PRESSURE
VPT	VELOCITY PRESSURE TRANSMITTER
VTR	VENT THRU ROOF
W	WATT, WIDTH
W/	WITH
WB	WET BULB
WCC	WATER COOLED CONDENSER
WG	WATER GAUGE
WMS	WIRE MESH SCREEN(1/2" UNLESS NOTED)
X	REMOVE EXISTING

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DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
SOUTHERN DIVISION
CHARLESTON, S.C.

NAVAL TRAINING CENTER — GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL
HVAC SYMBOLS
AND ABBREVIATIONS

DSGN KOWALIK DR KSIAZEK CHK RAUCH
SUPV RAUCH CH ENGR
SUBMITTED BY — DATE 8-31-94
FIRM MEMBER TITLE
EIC — BR HD
FPE — DIR
APPROVED — DATE
OFFICER IN CHARGE
APPROVED — DATE 9/12/94
EFD FOR COMMANDER, NAVFAC

STATE OF OHIO — CHRISTOPHER S. RAUCH — E-54727 — REGISTERED PROFESSIONAL ENGINEER
ARCH. & ENGR. SEAL

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
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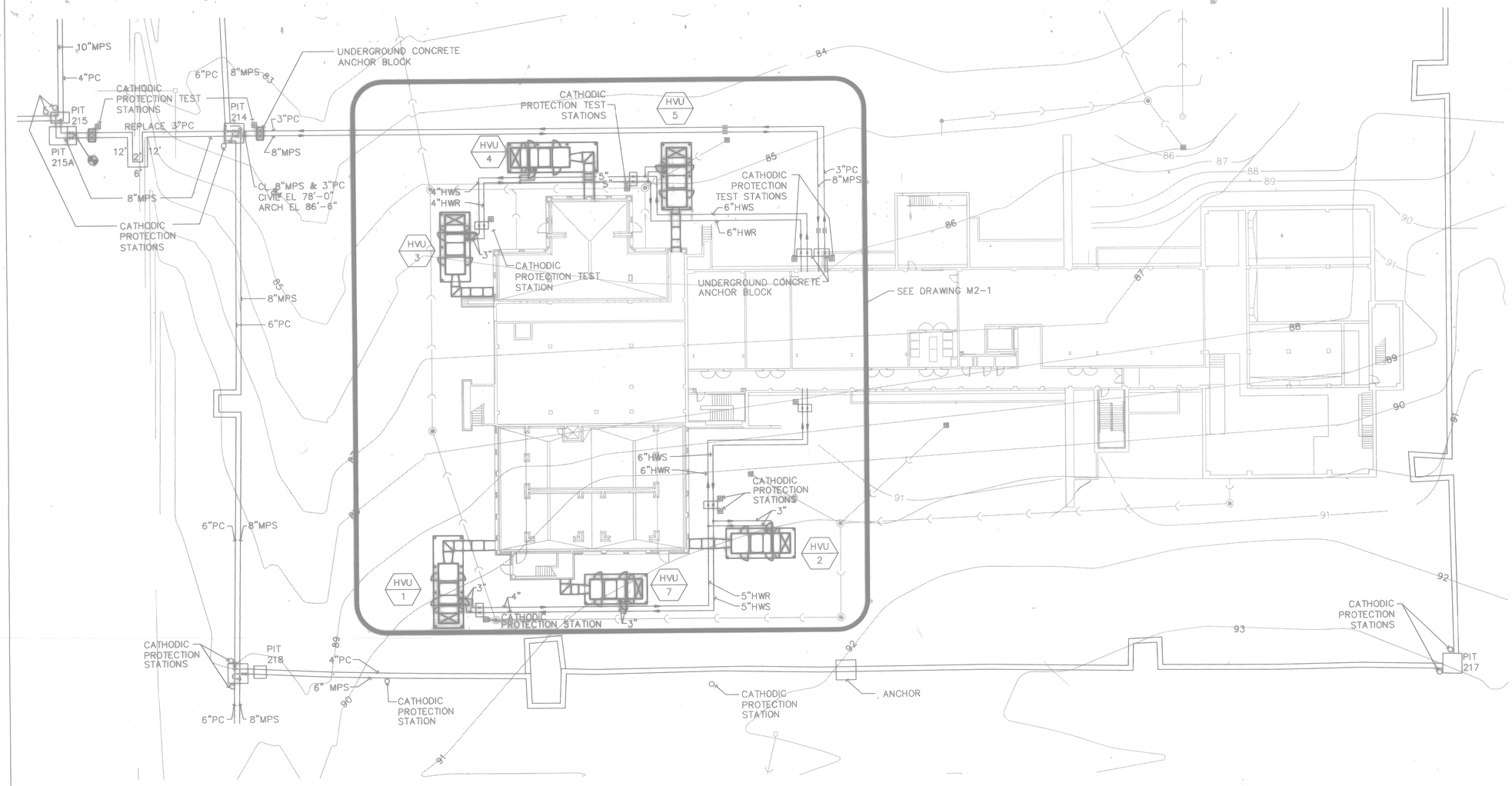


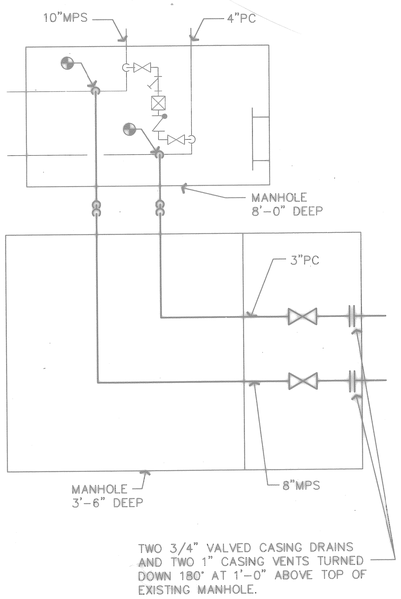
HVAC SITE PLAN

SCALE: 1"= 20'-0"

GRAPHIC SCALE

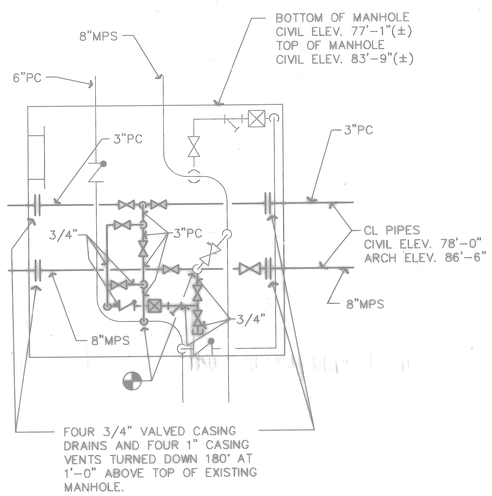
20' 0' 20' 40' 60'

SCALE 1" = 20'-0"



PIPE PIT 215 & 215A PLAN

SCALE: NONE



PIPE PIT 214 PLAN

SCALE: NONE

A AFFECTS ENTIRE SHEET

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DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
SOUTHERN DIVISION
CHARLESTON, S.C.

NAVAL TRAINING CENTER GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL HVAC SITE PLAN AND UNDERGROUND PIPING PLAN

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276550	M1-1

CONSTR CONTR NO. N62467-93-C-1143

SCALE 1" = 20' - 0" SPEC 06-93-1143 SHEET 126 OF

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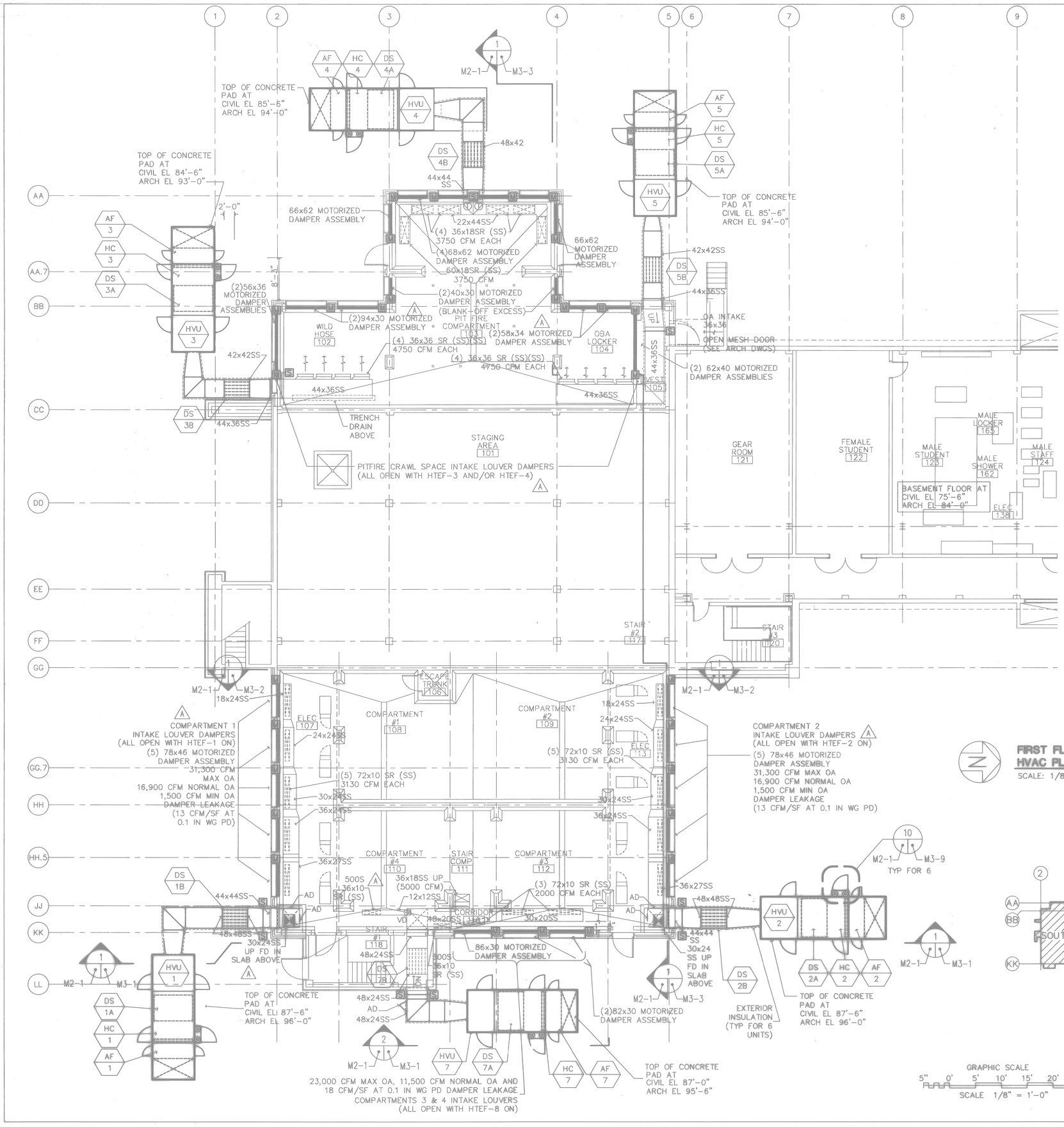

FIRST FLOOR CRAWL SPACE HVAC PLAN

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

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SOUTHERN DIVISION
CHARLESTON, S.C.

NAVAL TRAINING CENTER — GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL
FIRST FLOOR CRAWL SPACE
HVAC DUCTWORK PLAN

SIZE	CODE IDENT NO.	HAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276551	M2-1A
		CONSTR CONTR NO. N62467-93-C-1143	
SCALE 1/8"=1'-0"		SPEC 06-93-1143	SHEET 127 OF

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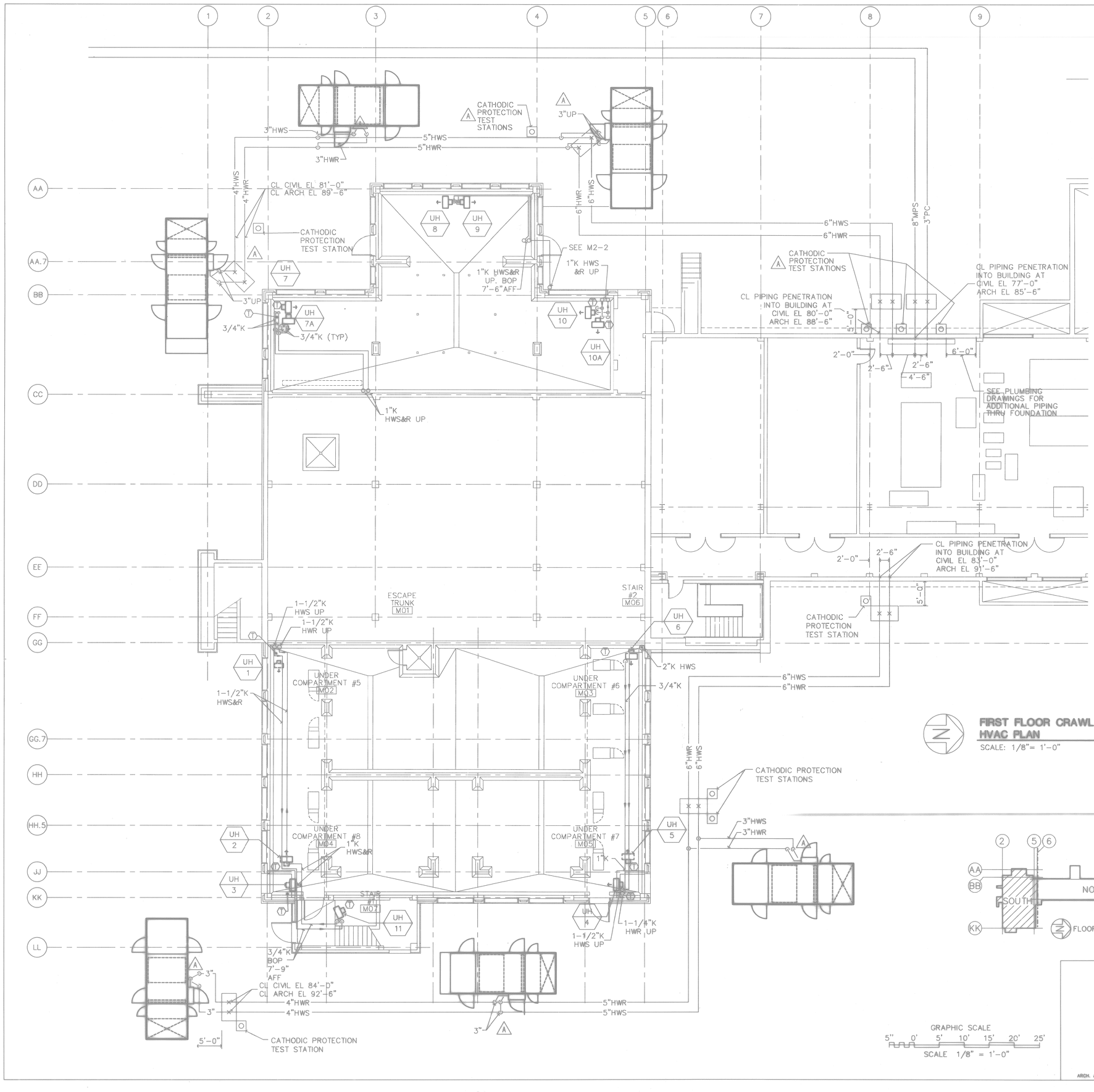
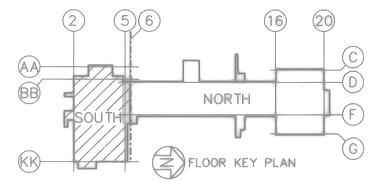


FIRST FLOOR CRAWL SPACE HVAC PLAN

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



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NAVAL TRAINING CENTER — GREAT LAKES, ILLINOIS

DSGN KOWALIK KSIAZEK RAUCH
SUPV RAUCH CH ENGR
SUBMITTED BY DATE
FIRM MEMBER TITLE
EIC BR HD
FPE DIR
APPROVED DATE
OFFICER IN CHARGE
APPROVED DATE
EFD FOR COMMANDER NAVFAC

DAMAGE CONTROL SCHOOL
FIRST FLOOR CRAWL SPACE HVAC PIPING PLAN

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5354852	M2-1B

CONSTR CONTR NO. N62467-93-C-1143
SCALE 1/8"=1'-0" SPEC 06-93-1143 SHEET 128 OF

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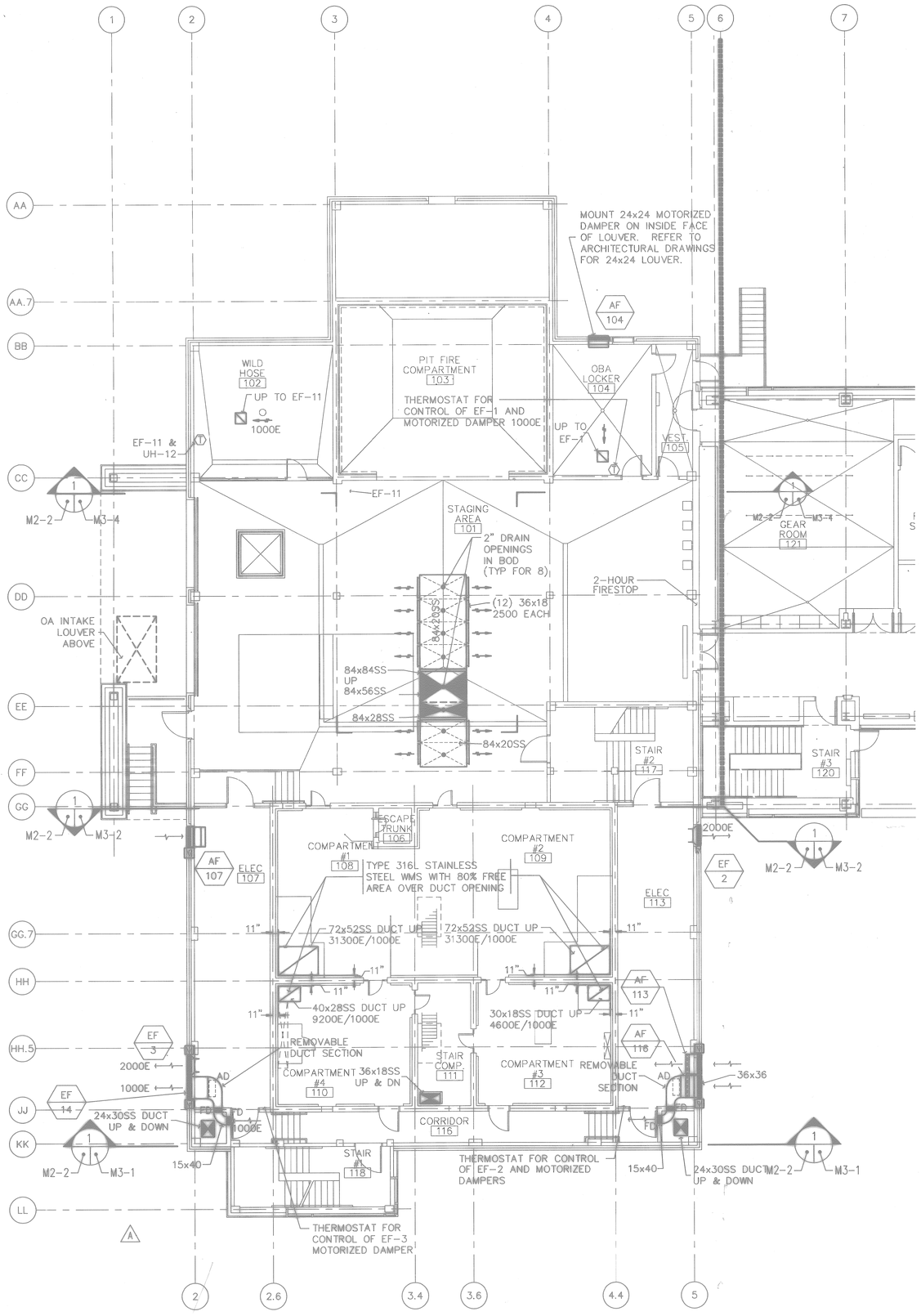
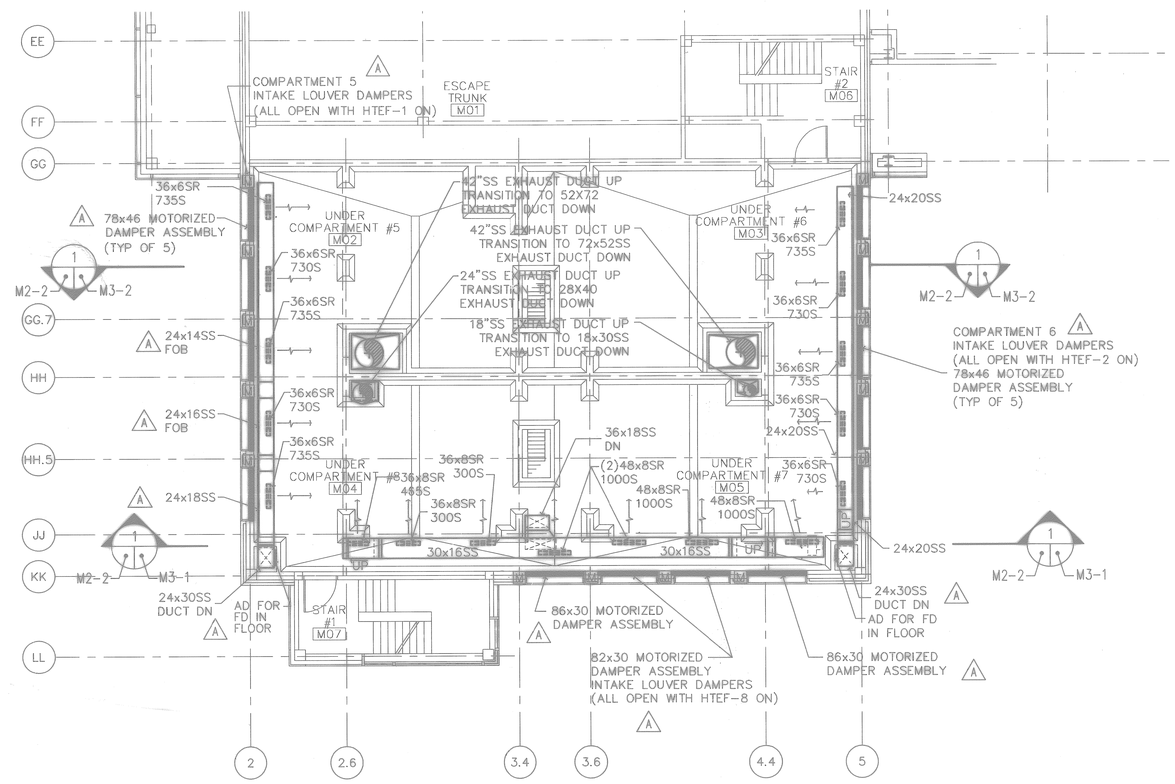


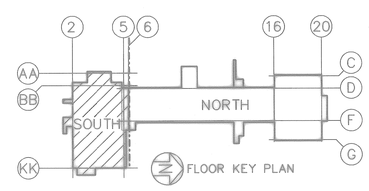
FIRST FLOOR - SOUTH HVAC PLAN

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



SECOND FLOOR CRAWL SPACE HVAC PLAN

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



GRAPHIC SCALE

5" 0' 5' 10' 15' 20' 25'

SCALE 1/8" = 1'-0"

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DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
SOUTHERN DIVISION
CHARLESTON, S.C.

NAVAL TRAINING CENTER — GREAT LAKES, ILLINOIS

DSGN KOWALIK KSIAZEK CHK RAUCH
SUPV RAUCH CH ENGR
SUBMITTED BY DATE
FIRM MEMBER TITLE
E/C BR NO
FPE DIR
APPROVED DATE
OFFICER IN CHARGE
APPROVED DATE
EFD FOR COMMANDER NAVFAC

DAMAGE CONTROL SCHOOL FIRST FLOOR-SOUTH AND SECOND FLOOR CRAWL SPACE DUCT PLANS

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276552	M2-2A
SCALE 1/8"=1'-0"		CONSTR CONTR NO. N62467-93-C-1143	
		SPEC 06-93-1143	SHEET 129 OF

ARCH. & ENGR. SEAL

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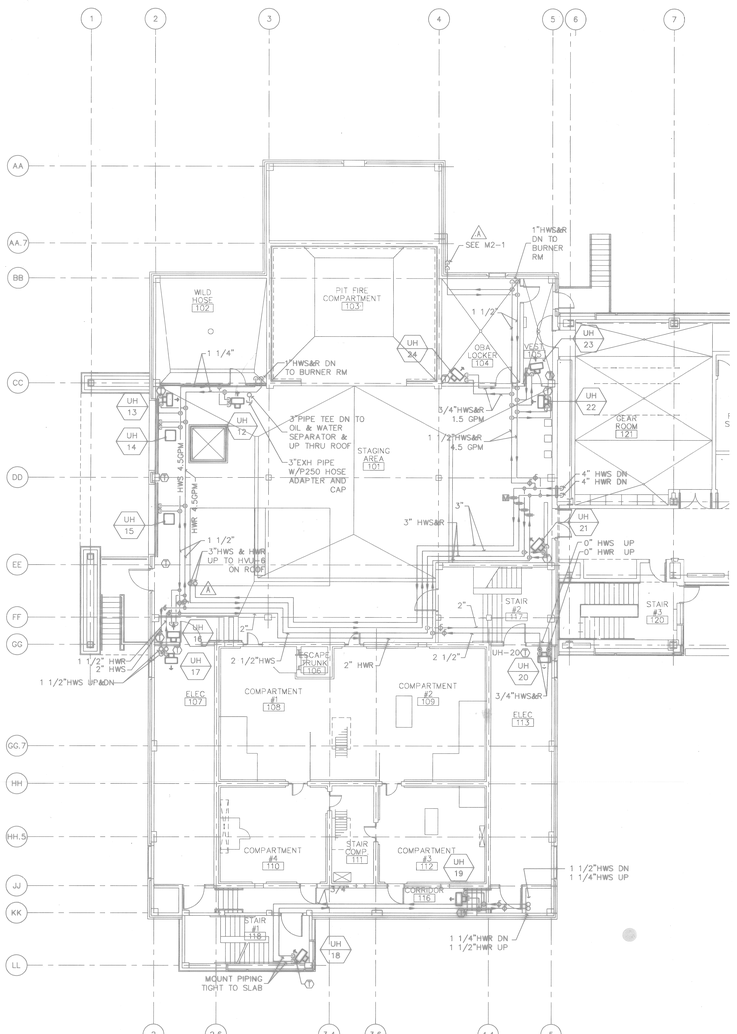
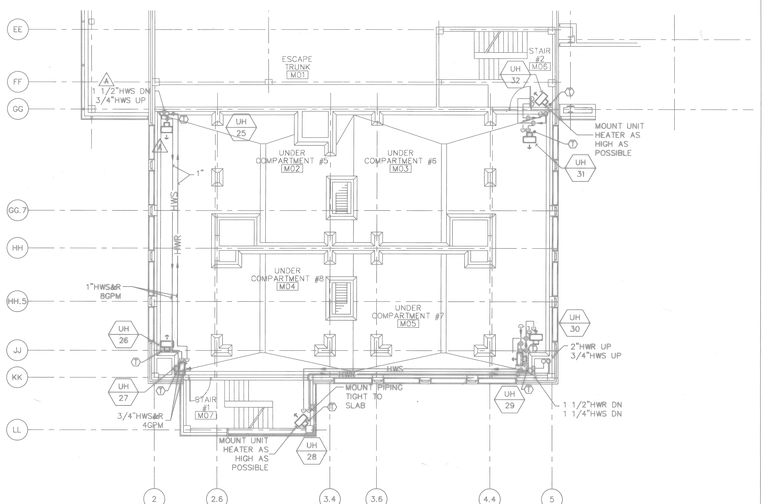
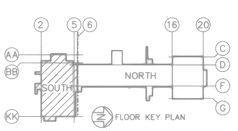


FIRST FLOOR - SOUTH
HVAC PLAN
SCALE: 1/8"= 1'-0"



SECOND FLOOR CRAWL SPACE
HVAC PLAN
SCALE: 1/8"= 1'-0"



FLOOR KEY PLAN

GRAPHIC SCALE
5" 0' 5' 10' 15' 20' 25'
SCALE 1/8" = 1'-0"

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CONTROL & SUPT
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DEPARTMENT OF THE NAVY
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CHARLESTON, S.C.
NAVAL FACILITIES ENGINEERING COMMAND

NAVAL TRAINING CENTER GREAT LAKES, ILLINOIS

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DATE RAUCH
CHECKED BY DATE
CHECKED BY DATE
FIRM NUMBER 1762
CV DP HD
CVC DP
APPROVED DATE
APPROVED DATE
APPROVED DATE
APPROVED DATE

DAMAGE CONTROL SCHOOL
FIRST FLOOR-SOUTH AND SECOND FLOOR CRAWL SPACE PIPING PLANS

NO.	FIRM SHEET NO.	ENGINEERING NO.	DRAWING NO.
F	80091	53548553	M2-2B

CONTRACT CONTROL NO. N62467-93-C-1143
SCALE 1/8"=1'-0" SPEC 08-93-1143 SHEET 30 OF

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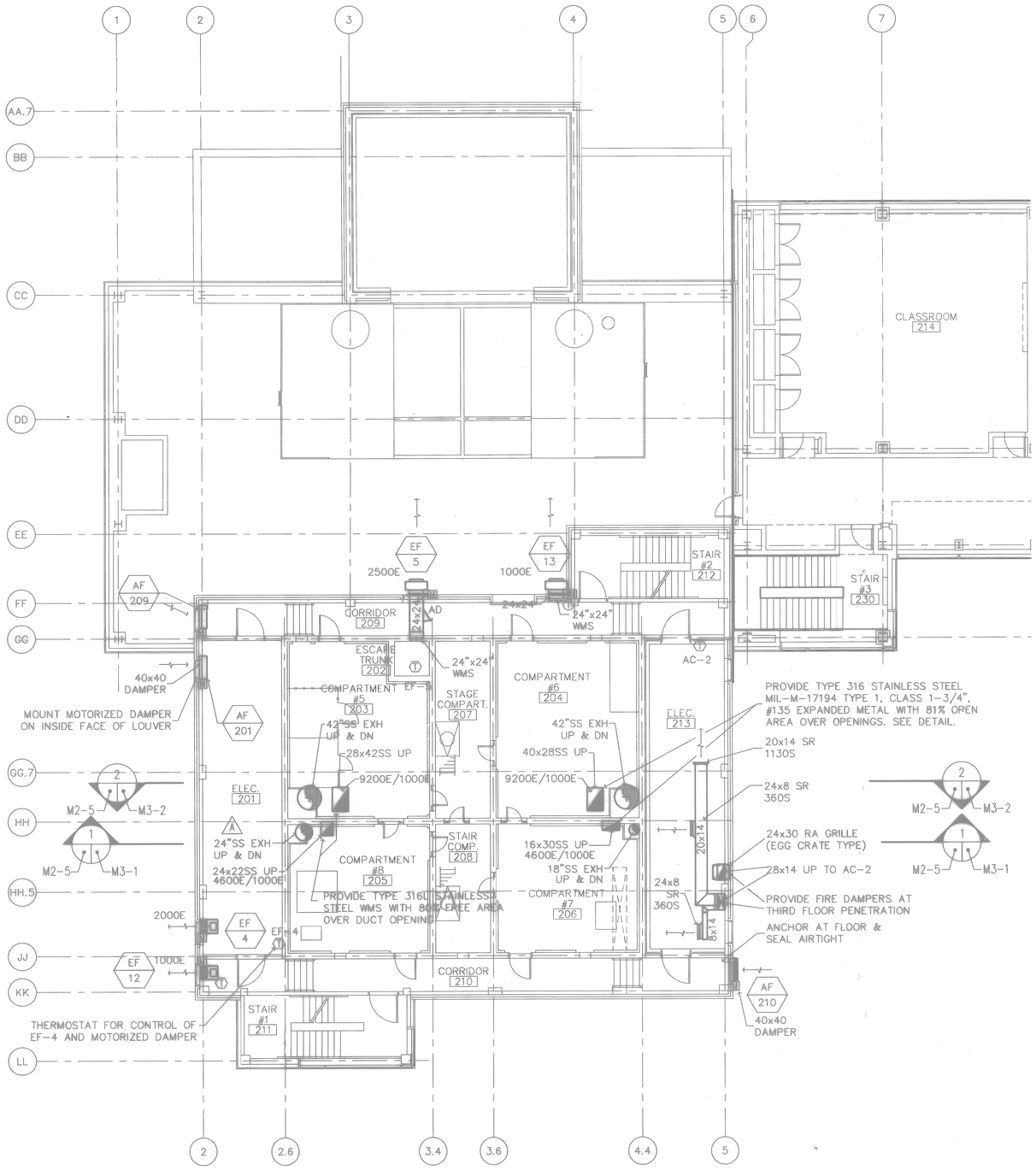
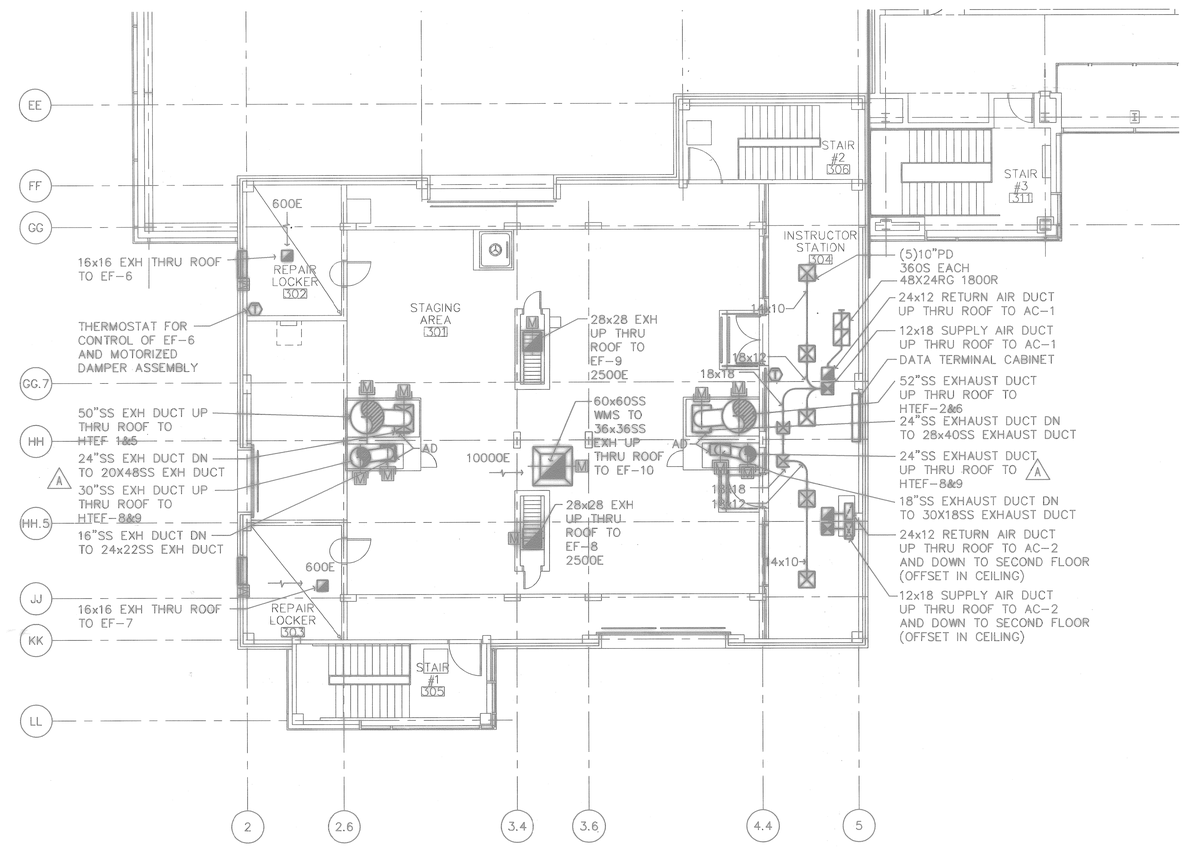


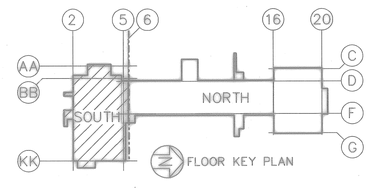
SECOND FLOOR - SOUTH HVAC PLAN

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



THIRD FLOOR - SOUTH HVAC PLAN

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



GRAPHIC SCALE

5" 0' 5' 10' 15' 20' 25'

SCALE 1/8" = 1'-0"

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DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
SOUTHERN DIVISION
CHARLESTON, S.C.

NAVAL TRAINING CENTER — GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL
SECOND FLOOR-SOUTH AND THIRD FLR-SOUTH DUCTWORK PLANS

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276553	M2-3A
		CONSTR CONTR NO. N62467-93-C-1143	
SCALE 1/8"=1'-0"		SPEC 06-93-1143	SHEET 13A OF

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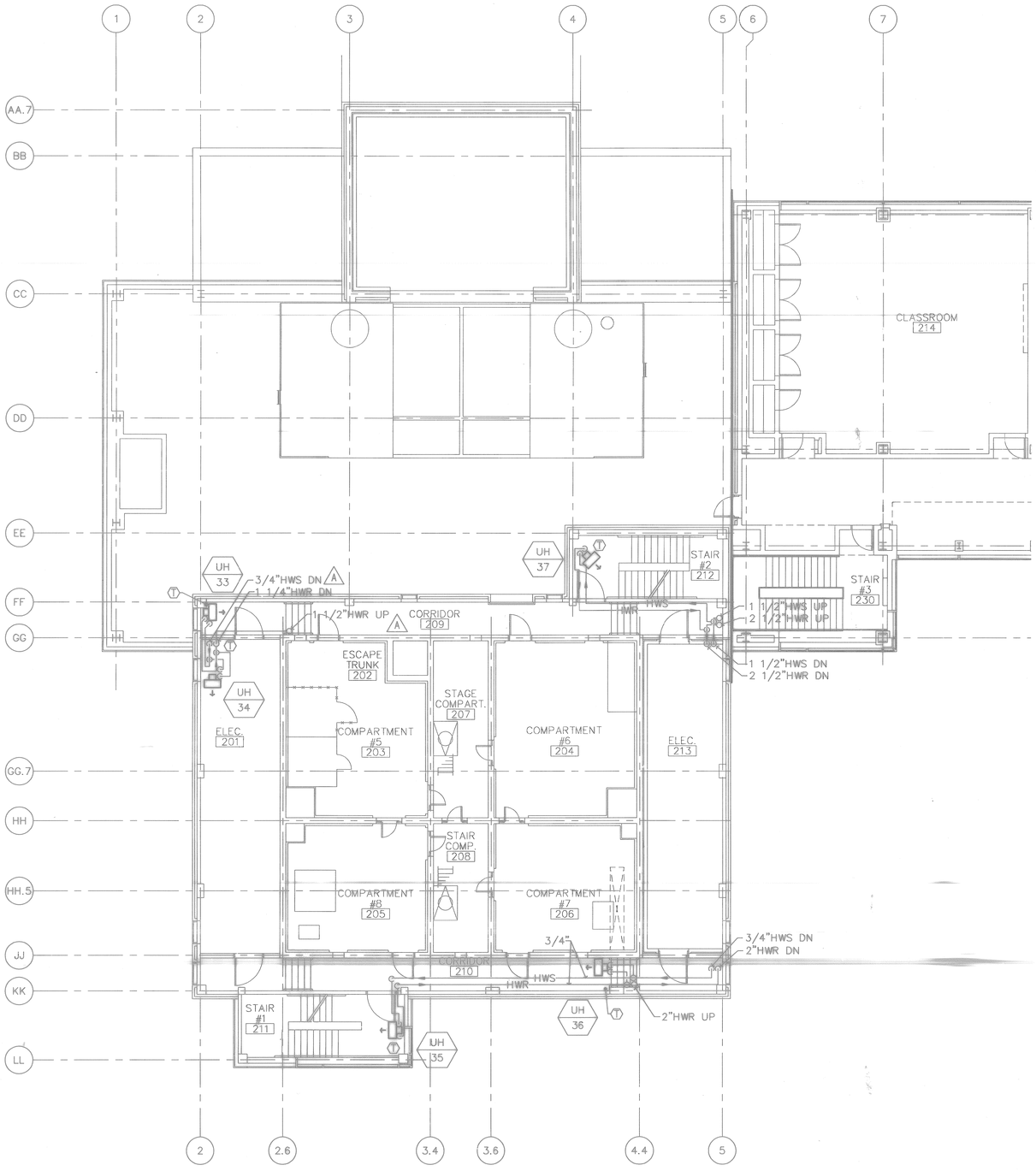
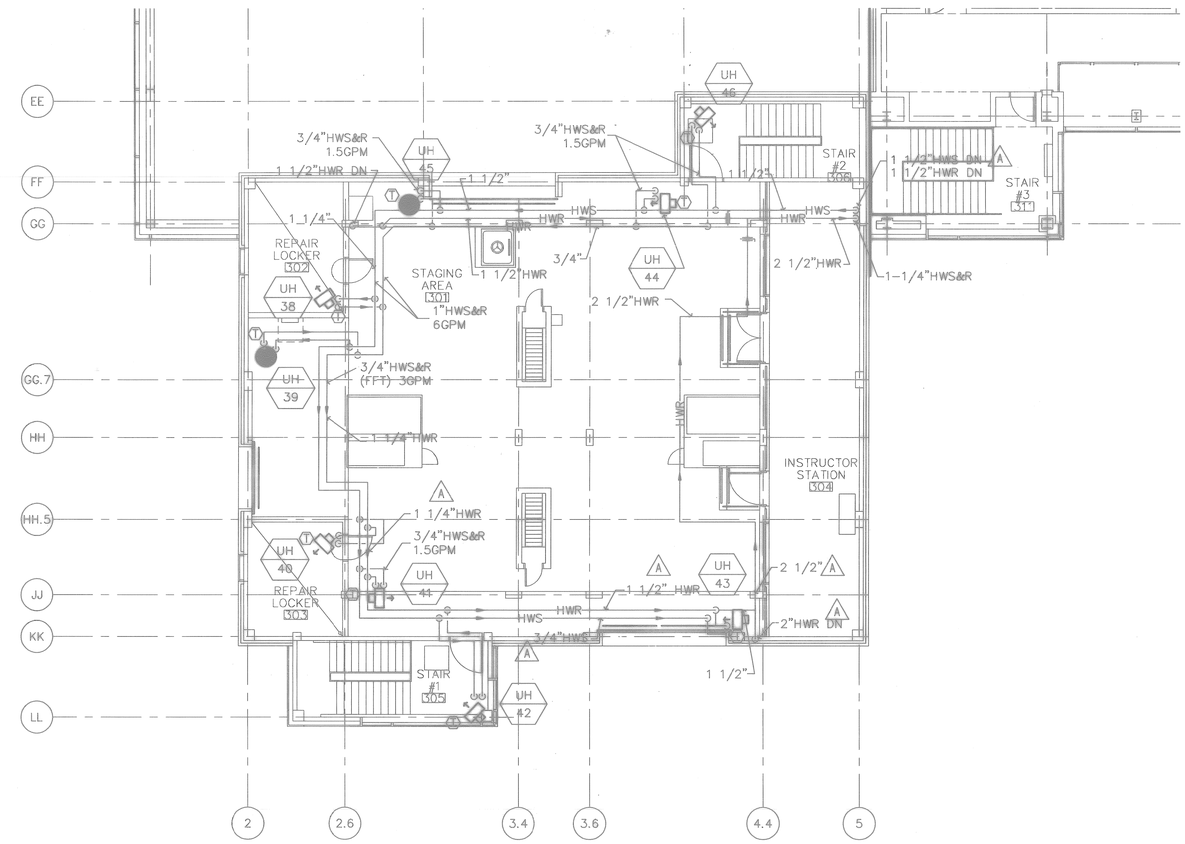


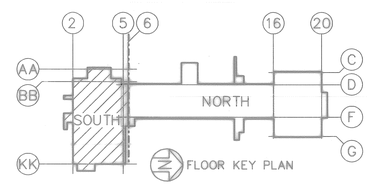
SECOND FLOOR - SOUTH HVAC PLAN

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



THIRD FLOOR - SOUTH HVAC PLAN

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



GRAPHIC SCALE

5" 0' 5' 10' 15' 20' 25'

SCALE 1/8" = 1'-0"

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APPROVED DATE
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NAVAL TRAINING CENTER — GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL SECOND FLOOR-SOUTH AND THIRD FLR-SOUTH PIPING PLANS

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5354854	M2-3B
SCALE 1/8"=1'-0"		CONSTR CONTR NO. N62467-93-C-1143	
		SPEC 06-93-1143	SHEET 132 OF

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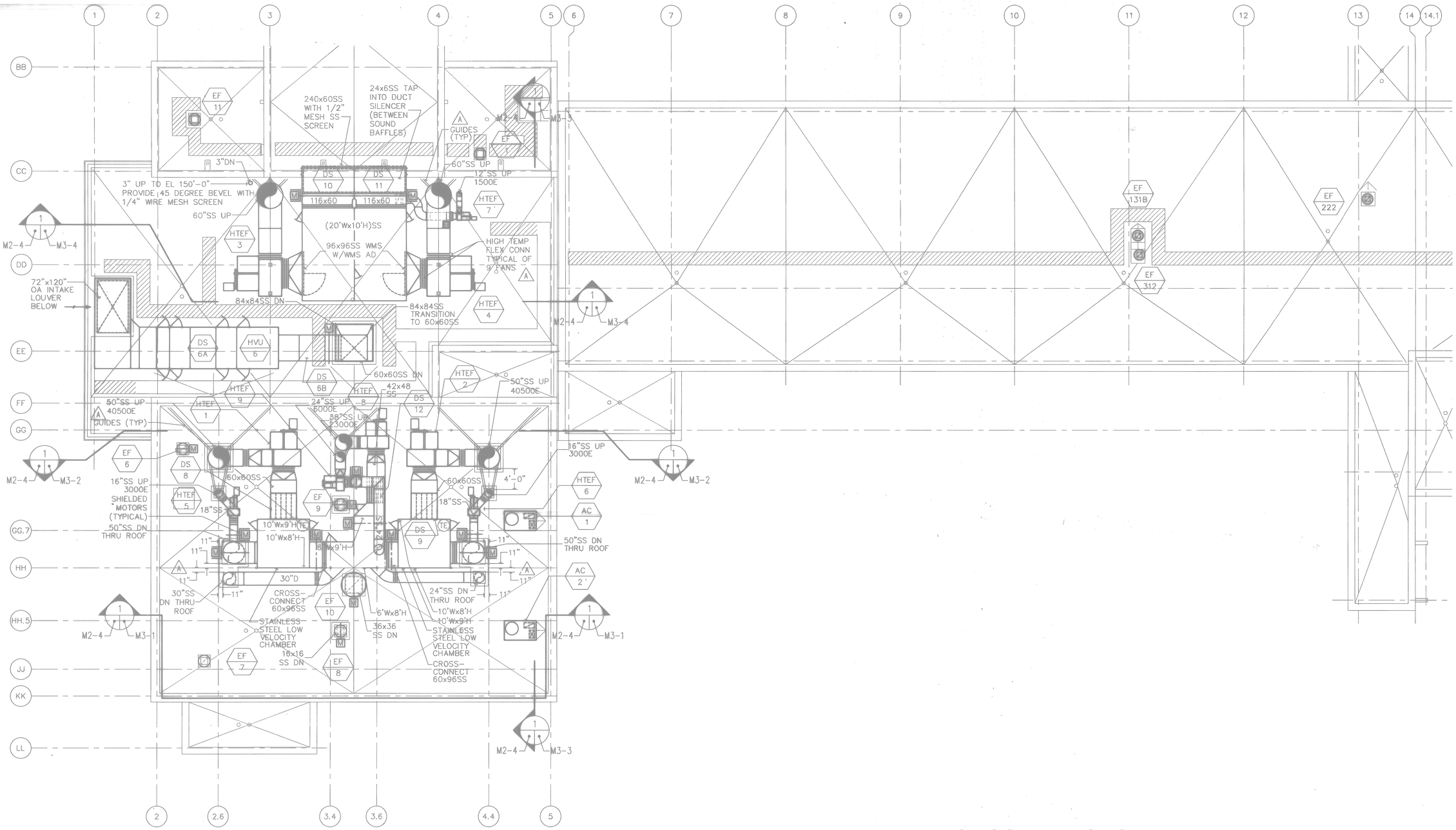
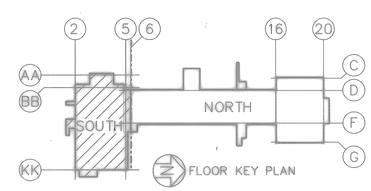


ROOF - SOUTH HVAC PLAN
SCALE: 1/8"= 1'-0"



FLOOR KEY PLAN

GRAPHIC SCALE
5" 0' 5' 10' 15' 20' 25'
SCALE 1/8" = 1'-0"

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SOUTHERN DIVISION
CHARLESTON, S.C.

NAVAL TRAINING CENTER — GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL
ROOF-SOUTH AND PARTIAL NORTH DUCTWORK PLAN

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276554	M2-4A
		CONSTR CONTR NO. N62467-93-C-1143	
SCALE 1/8"=1'-0"		SPEC 06-93-1143	SHEET 133 OF

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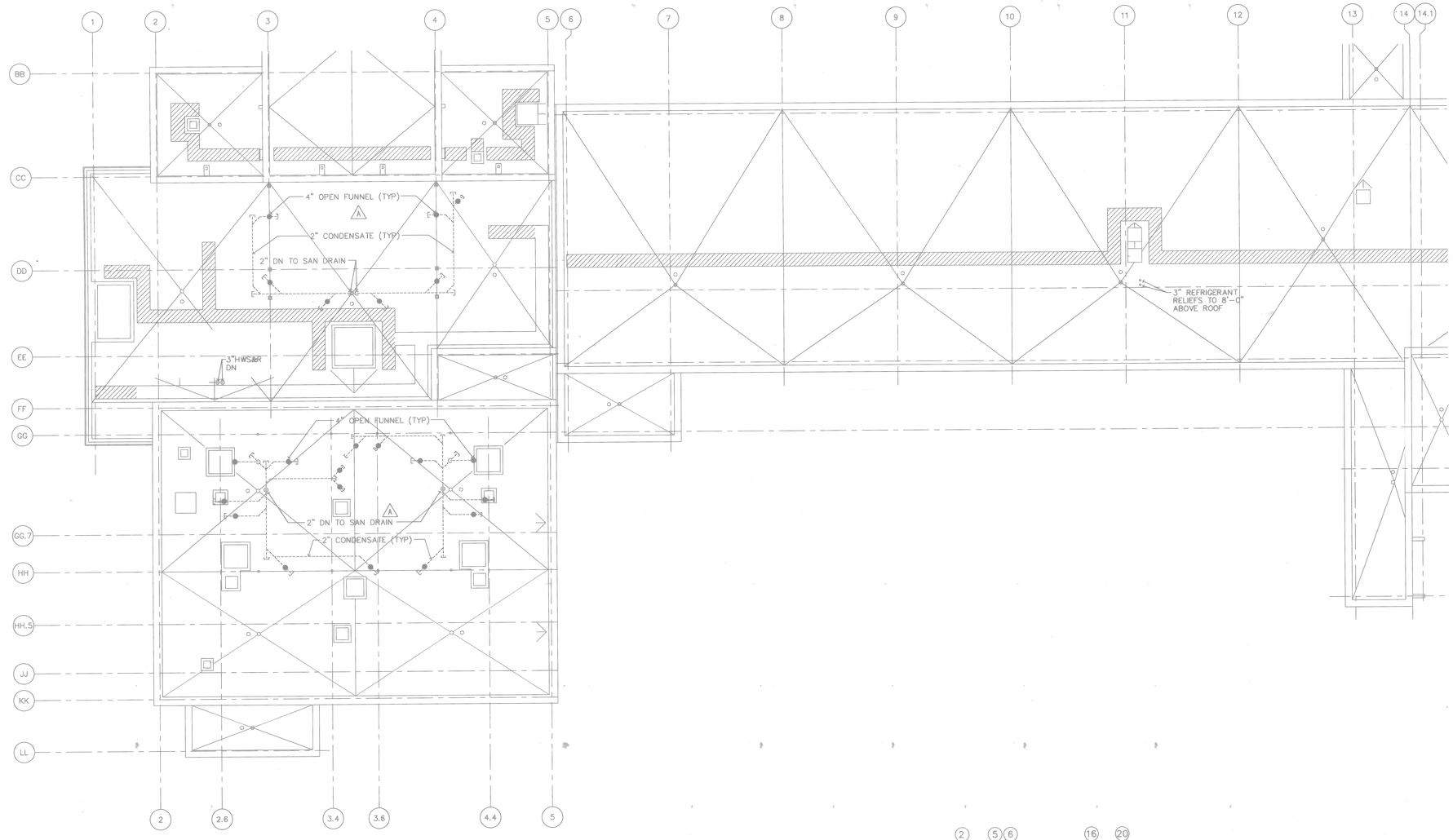
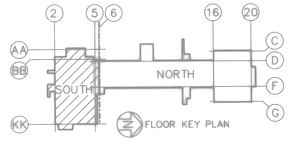


ROOF - SOUTH HVAC PLAN

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



FLOOR KEY PLAN

GRAPHIC SCALE

5" 0' 5' 10' 15' 20' 25'

SCALE 1/8" = 1'-0"

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DWL 05/15/98

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Formerly Knight Associates, Inc. Company
Formerly Knight Architects Engineers Planners, Inc.

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FPE DM
APPROVED DATE
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DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
SOUTHERN DIVISION
CHARLESTON, S.C.

NAVAL TRAINING CENTER GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL ROOF-SOUTH AND PARTIAL NORTH PIPING PLAN

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	S354855	M2-4B
		CONSTR CONTR NO. N62467-93-C-1143	
SCALE 1/8"=1'-0"		SPEC 08-93-1143	SHEET 139 OF

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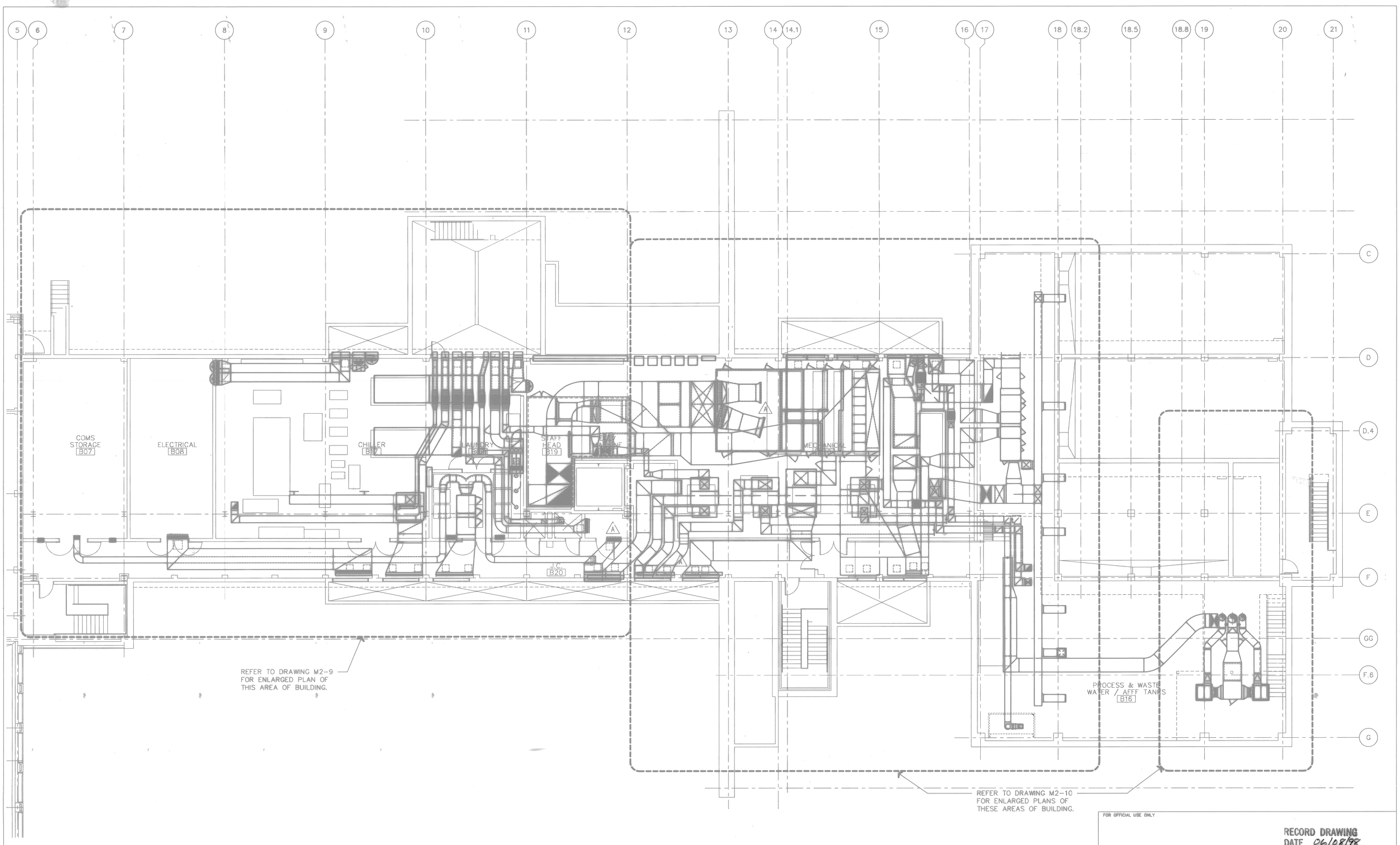
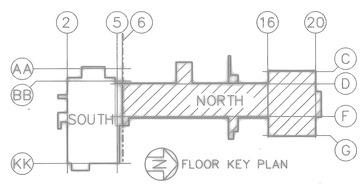


BASEMENT - NORTH HVAC PLAN
SCALE: 1/8"= 1'-0"



FLOOR KEY PLAN

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

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SOUTHERN DIVISION
CHARLESTON, S.C.

NAVAL TRAINING CENTER GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL
BASEMENT-NORTH DUCTWORK PLAN

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
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		CONSTR CONTR NO. N62467-93-C-1143	
SCALE 1/8"=1'-0"		SPEC 06-93-1143	SHEET 135 OF

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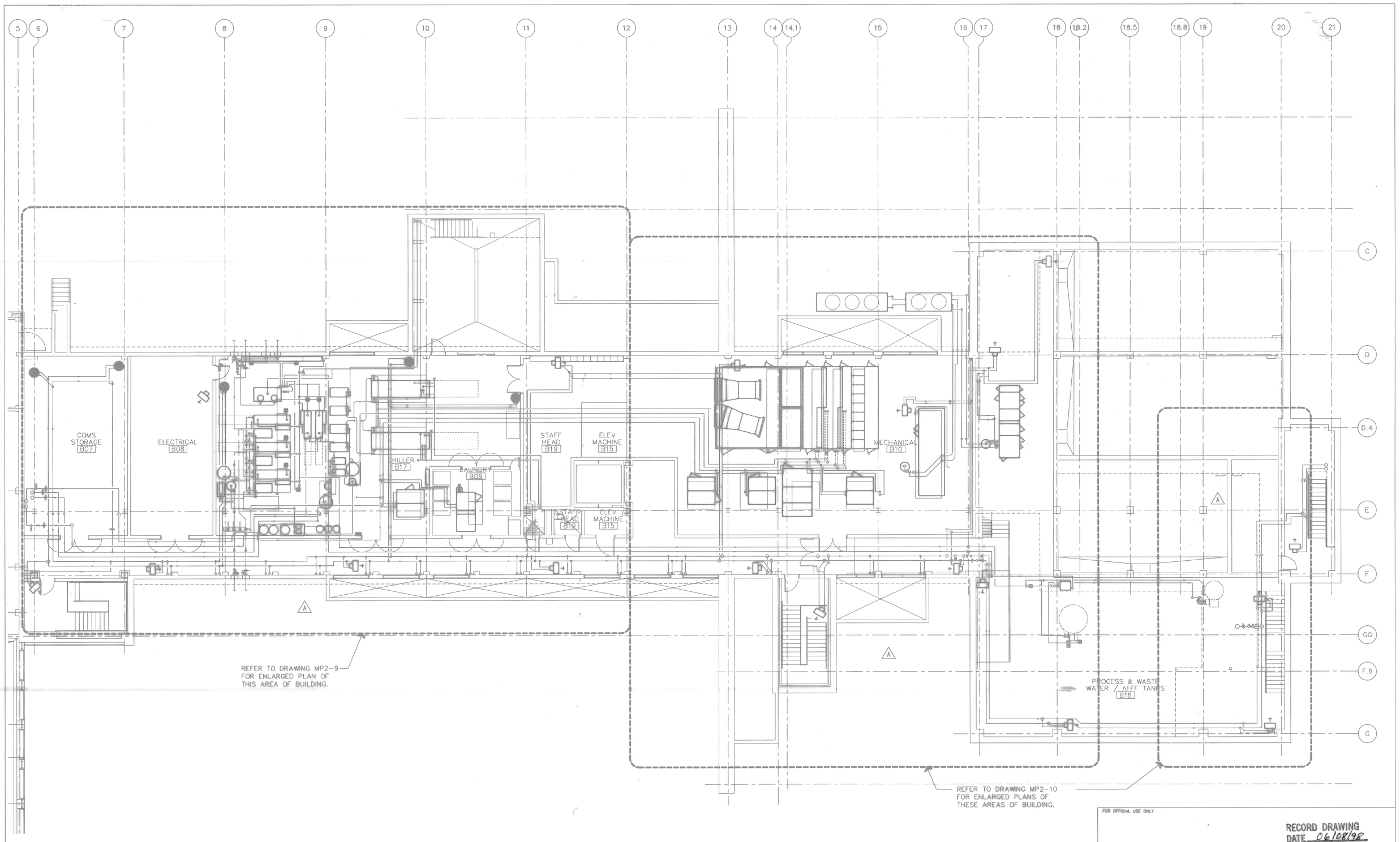
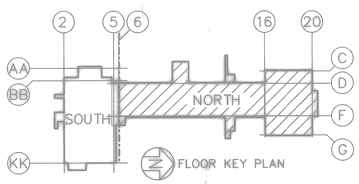


BASEMENT - NORTH HVAC PLAN

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



FLOOR KEY PLAN

GRAPHIC SCALE

5" 0' 5' 10' 15' 20' 25'

SCALE 1/8" = 1'-0"

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NAVAL TRAINING CENTER — GREAT LAKES, ILLINOIS

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DAMAGE CONTROL SCHOOL
BASEMENT-NORTH PIPING PLAN

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5354856	M2-5B
		CONSTR CONTR NO. N62467-93-C-1143	
SCALE 1/8"=1'-0"		SPEC 06-93-1143	SHEET 136 OF

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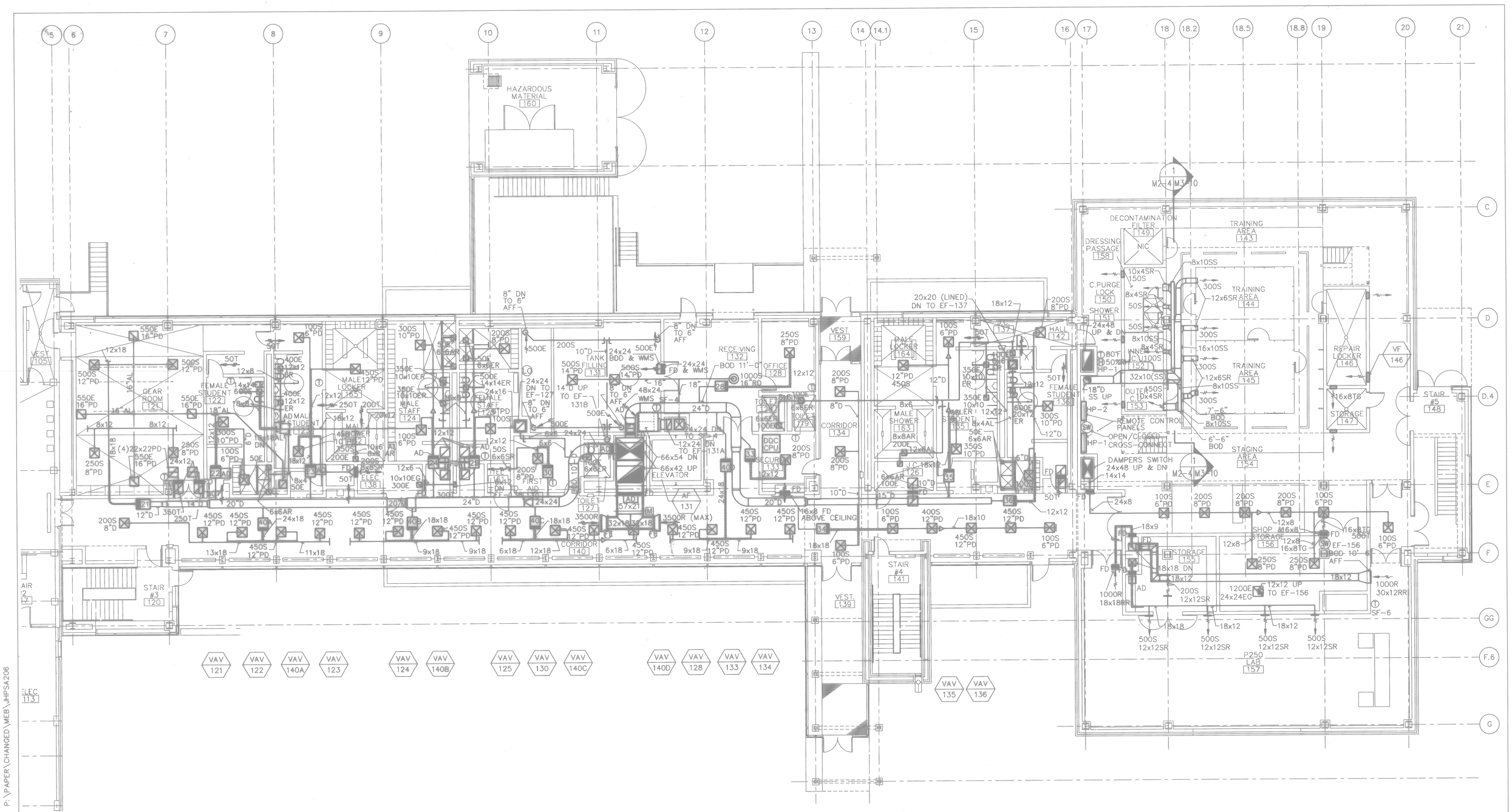
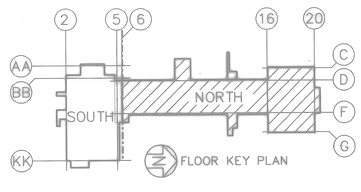


FIRST FLOOR - NORTH
HVAC PLAN
SCALE: 1/8"= 1'-0"



GRAPHIC SCALE
5" 0' 5' 10' 15' 20' 25'
SCALE 1/8" = 1'-0"

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SOUTHERN DIVISION
CHARLESTON, S.C.

NAVAL TRAINING CENTER GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL
FIRST FLOOR-NORTH
DUCTWORK PLAN

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276556	M2-6A
		CONSTR CONTR NO. N62467-93-C-1143	
SCALE 1/8"=1'-0"		SPEC 06-93-1143	SHEET 137 OF

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