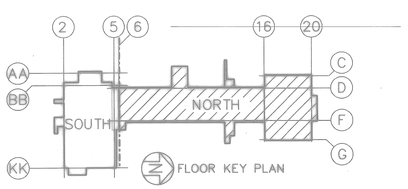
MATCHLINE REFER TO SHEET ____ FOR CONTINUATION

HAZARDOUS MATERIAL 160
CUH 124
CUH 125
BARE PIPE
B131 108-1
B128 72-1
CUH 159
B164 66-4
B135 60-1
B142 96-1
B121 84-1
B121 108-1
B123 84-1
B165 108-4
B124 66-4
B125 36-4
VEST 159
LC 137
HALL 142
DECONTAMINATION FILTER 149
DRESSING PASSAGE 158
C.PURGE LOCK 150
SHOWER 151
INNER C.U. 152
OUTER C.U. 153
TRAINING AREA 143
TRAINING AREA 144
TRAINING AREA 145
REPAIR LOCKER 146
STORAGE 147
STAIR #5 148
STAGING AREA 154
VEST 103
GEAR ROOM 121
FEMALE STUDENT 122
MALE STUDENT 123
MALE LOCKER 165
MALE SHOWER 162
MALE STAFF 124
FEMALE STAFF 125
TANK FILLING 131
132A
RECEIVING 132
132B
UH 132A
UH 132B
OFFICE 128
TOILET 129
TOILET 179
FIRST AID 130
ELEVATOR
SECURITY 133
CORRIDOR 134
MALE LOCKER 164
MALE SHOWER 163
MALE STUDENT 135
FEMALE STUDENT 136
HP-1
J.C. 126
ELEC 138
TEL 161
TOILET 127
CUH 134A
4" HEATING RETURN DN 4" HEATING RETURN UP
4"K HEATING RETURN DN & UP 3"K
1-1/2"K
DIELECTRIC UNIONS
2-1/2"K
CUH 140A
3" HEATING RETURN UP 4" HEATING SUPPLY DN
CORRIDOR 140
STAIR #2 117
STAIR #3 120
STAIR #4 141
CUH 134B
CUH 139
CUH 120
CUH 141
CUH 140B
CUH 148A
STORAGE 155
SHOP & STORAGE 156
DIELECTRIC FLANGE
3" EXHAUST PIPES BOP 3'-0" AFF
P250 LAB 157
3" PIPE UP THRU ROOF & TRAP TO FLOOR DRAIN
ELEC 113
B140 72-2
B140 84-2
B140 108-1
B157 108-1
B157 144-1
B140 72-2
B140 84-2
1" TRAPPED DRAIN

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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DATE 06/08/98

DATE 07-21-97 ISSUE CORRECTED TO AS-BUILT BY MEB INITIAL

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SOUTHERN DIVISION
CHARLESTON, S.C.

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SUPV RAUCH CH ENGR
SUBMITTED BY DATE
FIRM MEMBER TITLE
EIC BR NO
FPC DIR
APPROVED DATE
OFFICER IN CHARGE
APPROVED DATE
EFD FOR COMMANDER, NAVFAC

NAVAL TRAINING CENTER GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL
FIRST FLOOR-NORTH
PIPING PLAN

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5354857	M2-6B
SCALE 1/8"=1'-0"		CONSTR CONTR NO. N62467-93-C-1143	
		SPEC 05-93-1143	SHEET 138 OF

ARCH. & ENGR. SEAL

P:_TRL-BLDG PS tsp=0.0 P:_JMSP012X Nested XREF
P:_TRL-BLDG2 PS tsp=0.0 P:_JMSP012Y Nested XREF
P:_JMSP012M MS tsp=0.0 P:_JMSP012E Nested XREF
P:_JMPA2206 PS tsp=0.0
P:_JMCD002 Nested XREF

Date&time: 08/26/94 14:29:26 User: AFS Filename: P:\PAPER\JMPS2206

(2) 5/8" THICK LAYERS, STAGGERED SEAMS, GYPSUM BOARD ENCLOSURE, BOTTOM AND SIDE OF DUCT, CONTINUOUS TO WALLS AND CONCRETE SLAB ABOVE, IF REQUIRED.

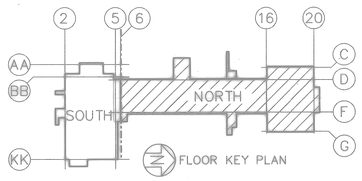
CLASSROOM 214 · OFFICE 215 · OFFICE 216 · OFFICE 217 · OFFICE 218 · OFFICE 219 · OFFICE 220 · LOUNGE 221 · FEMALE 222 · MALE 223 · CLASSROOM 227 · CORRIDOR 228 · STAIR #2 212 · STAIR #3 230 · STAIR #4 229 · STAIR #5 235 · CONTROL (SS) ROOM 242 · TRAINING AREA 240 · TRAINING AREA 241 · REPAIR LOCKER 238 · REPAIR LOCKER 239 · STORAGE 242 · PREP ROOM 232 · CONFIDENCE CHAMBER 234 · CLASSROOM 231

90 TRAVEL ARM DAMPER ARM PAINT YELLOW TO BE VISIBLE FROM CONTROL ROOM

VAV 214A · VAV 214B · VAV 228A · VAV 217 · VAV 216 · VAV 233 · VAV 215 · VAV 218A · VAV 218B · VAV 219 · VAV 220 · VAV 228B · VAV 221 · VAV 228C · VAV 222 · VAV 223 · VAV 227A · VAV 227B · VAV 228D · VAV 231 · VAV 237

SECOND 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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DAD 06/5/98

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DSGN KOWALIK KSIAZEK CHIEF 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	NAVAL TRAINING CENTER GREAT LAKES, ILLINOIS DAMAGE CONTROL SCHOOL SECOND FLOOR-NORTH DUCTWORK PLAN		
	SIZE F	CODE IDENT NO. 80091	NAVFAC DRAWING NO. 5276557
			CONSTR CONTR NO. N62467-93-C-1143
	SCALE 1/8"=1'-0"	SPEC 06-93-1143	SHEET 139 OF

DRAWING NO. M2-7A

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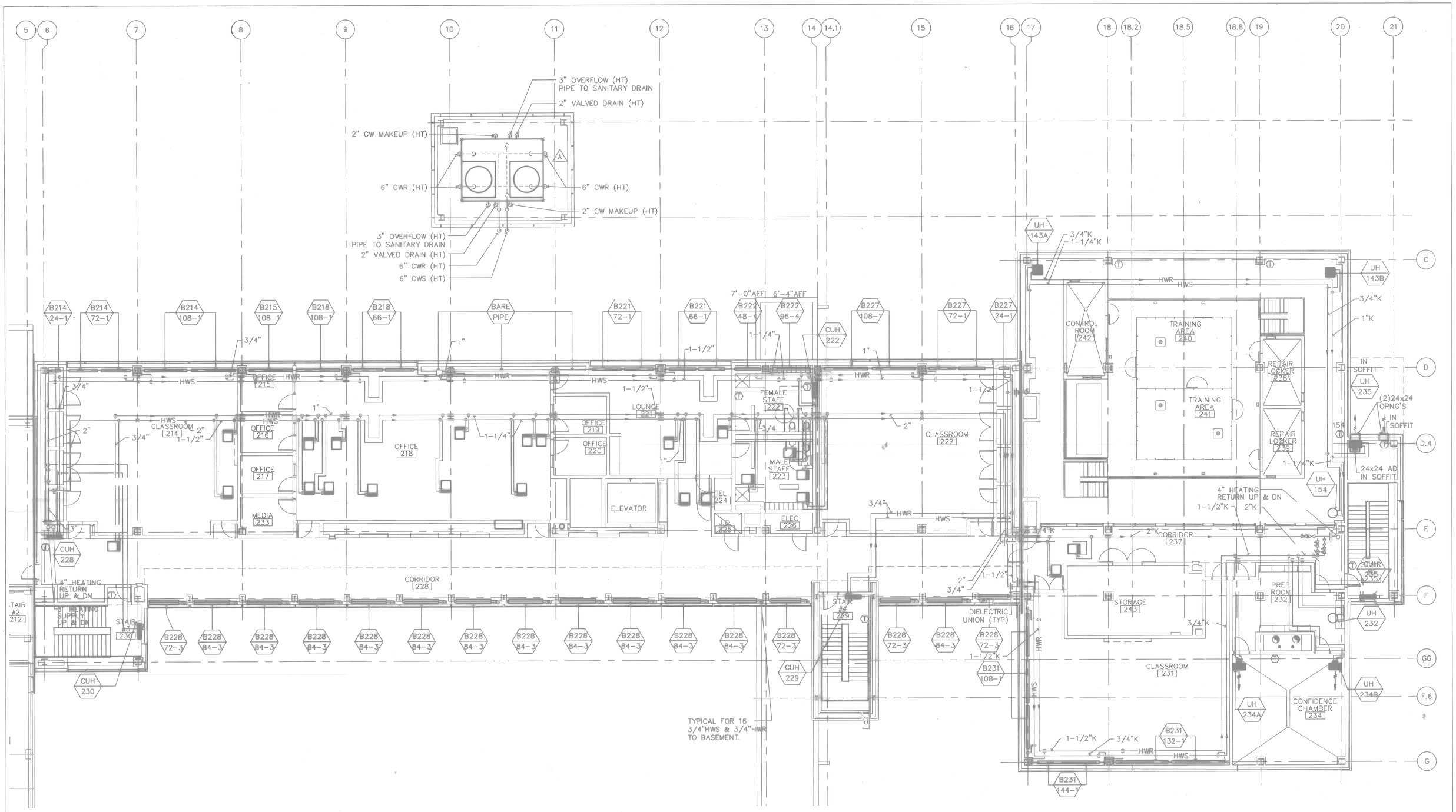
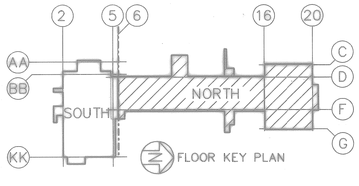


SECOND FLOOR - NORTH
HVAC PLAN
SCALE: 1/8"= 1'-0"



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

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APPROVED DATE
FFD FOR COMMANDER NAVFAC

NAVAL TRAINING CENTER GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL
SECOND FLOOR-NORTH
HVAC PIPING PLAN

SIZE F | CODE IDENT NO. 80091 | NAVFAC DRAWING NO. 5354858 | DRAWING NO. M2-7B
CONSTR CONTR NO. N62467-93-C-1143
SCALE 1/8"=1'-0" | SPEC 06-93-1143 | SHEET 40 OF

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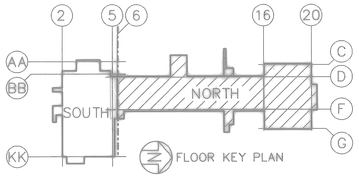
MATCHLINE REFER TO SHEET

THIRD FLOOR - 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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DAMAGE CONTROL SCHOOL
THIRD FLOOR-NORTH
DUCTWORK PLAN

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276558	M2-8A

CONSTR CONTR NO. N62467-93-C-1143
SCALE 1/8"=1'-0" | SPEC 08-93-1143 | SHEET 11 OF

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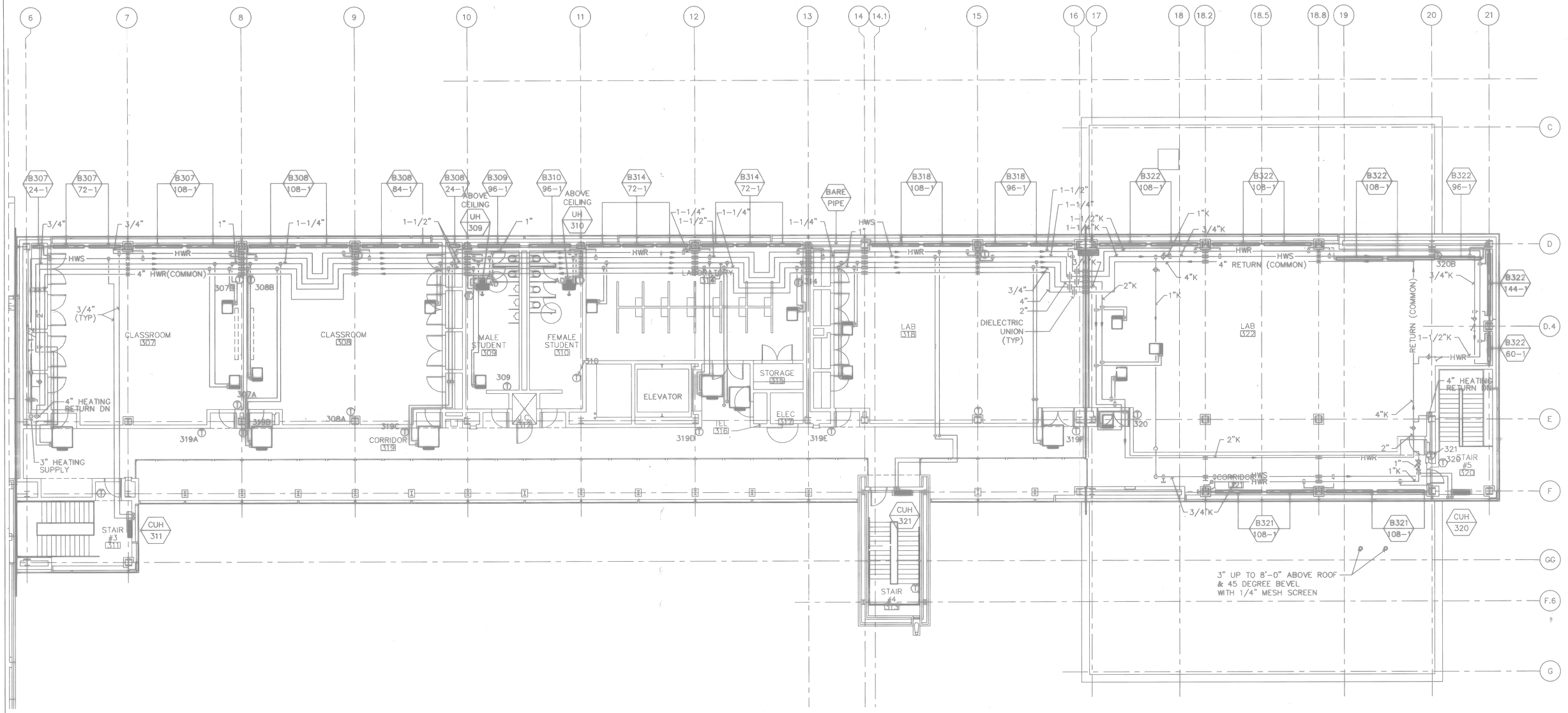
11



THIRD 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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NAVAL TRAINING CENTER GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL
THIRD FLOOR-NORTH PIPING PLAN

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5354859	M2-8B

CONSTR CONTR NO. N62467-93-C-1143
SCALE 1/8"=1'-0" SPEC 08-93-1143 SHEET 42 OF

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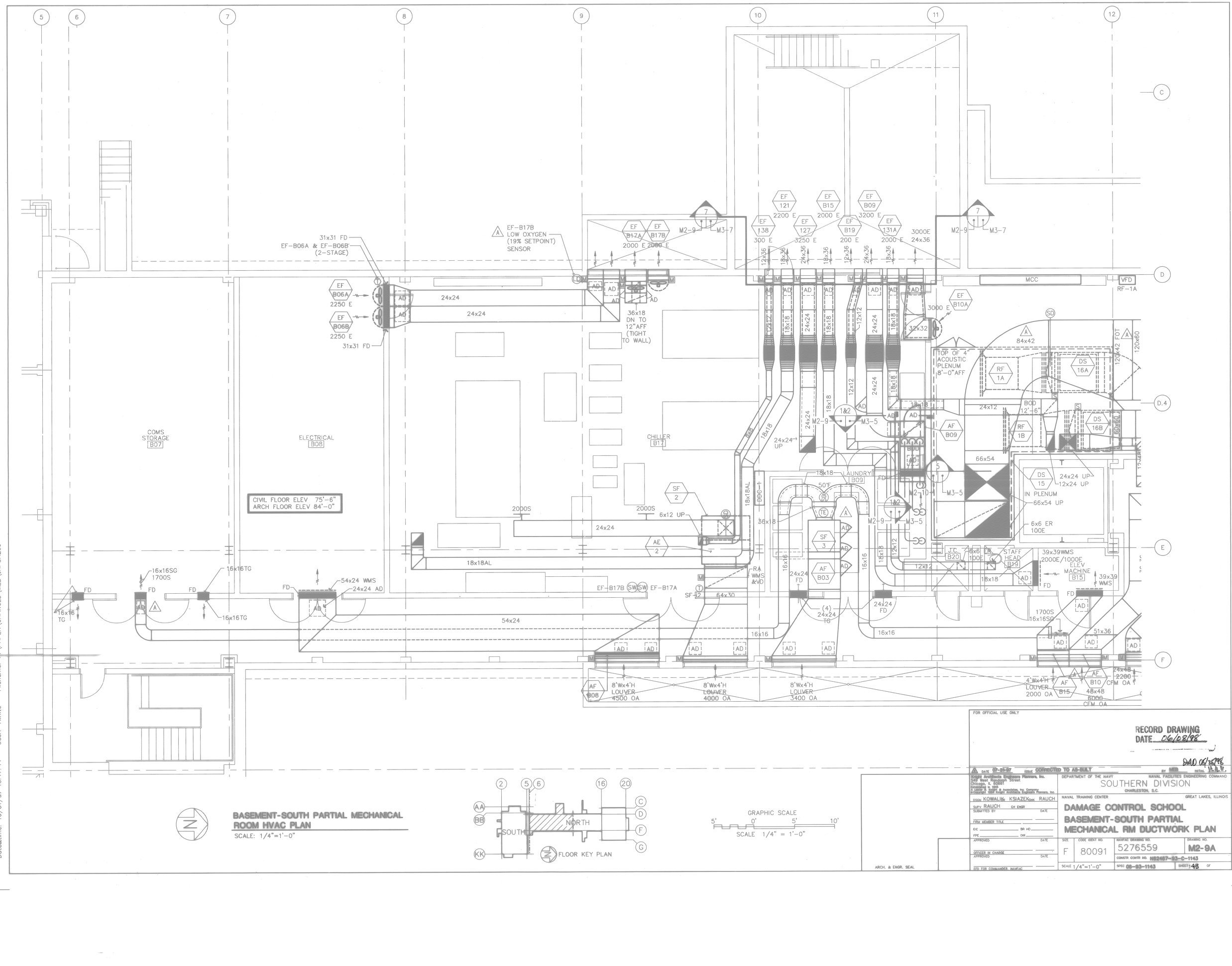

BASEMENT-SOUTH PARTIAL MECHANICAL ROOM HVAC PLAN

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

GRAPHIC SCALE
5' 0' 5' 10'
SCALE 1/4" = 1'-0"

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OFFICER IN CHARGE
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EFD FOR COMMANDER, NAVFAC

DAMAGE CONTROL SCHOOL BASEMENT-SOUTH PARTIAL MECHANICAL RM DUCTWORK PLAN

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276559	M2-9A

CONSTR CONTR NO. N62467-93-C-1143
SCALE 1/4"=1'-0" SPEC 08-93-1143 SHEET 143 OF

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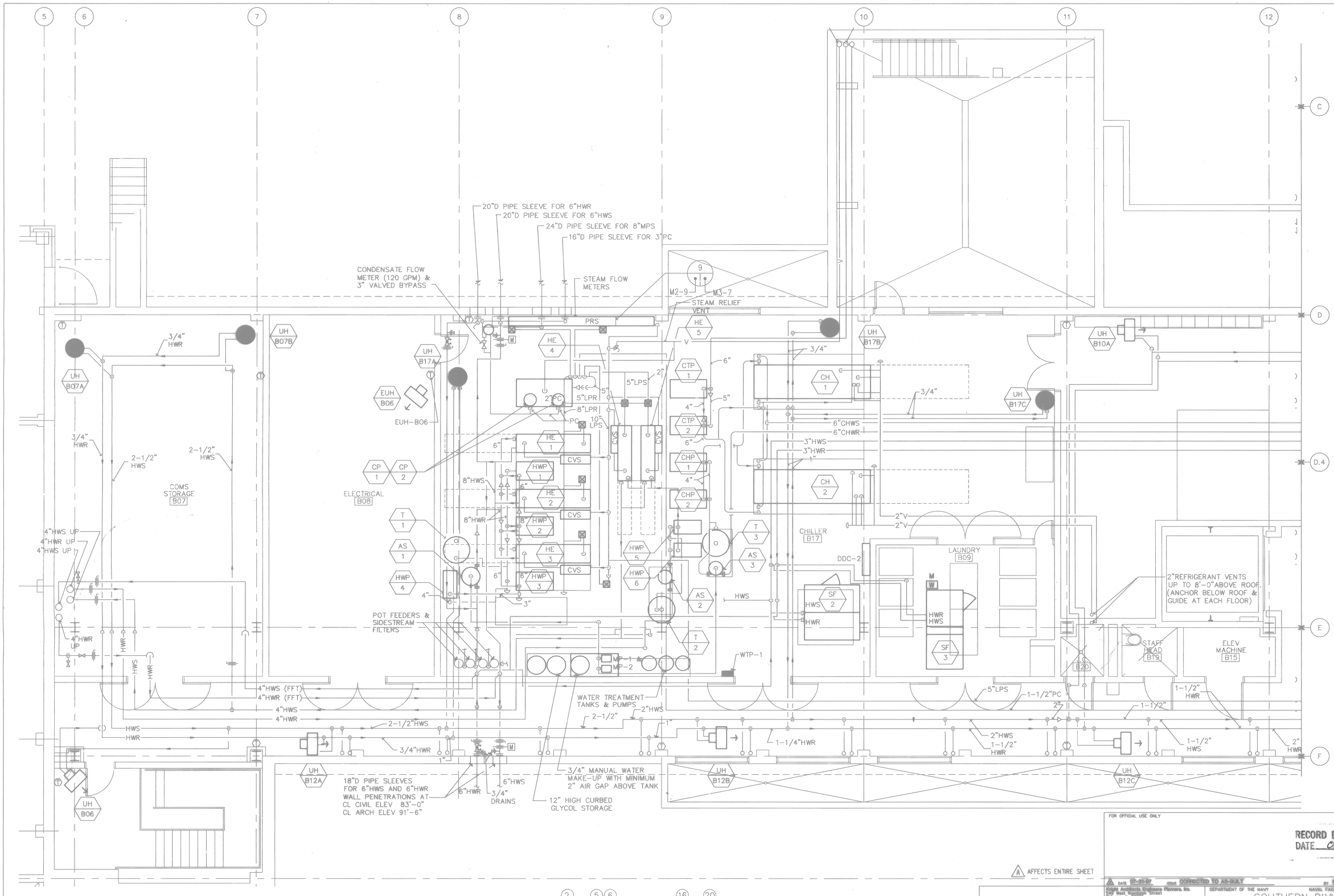

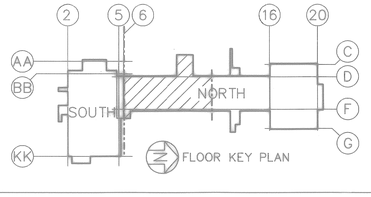

BASEMENT-SOUTH PARTIAL MECHANICAL ROOM HVAC PLAN

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

GRAPHIC SCALE
5' 0' 5' 10'
SCALE 1/4" = 1'-0"

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NAVAL TRAINING CENTER GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL
BASEMENT-SOUTH PARTIAL MECHANICAL RM PIPING PLAN

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5354860	M2-9B

CONSTR CONTR NO. N62467-93-C-1143
SCALE 1/4"=1'-0" SPEC 08-93-1143 SHEET 44 OF

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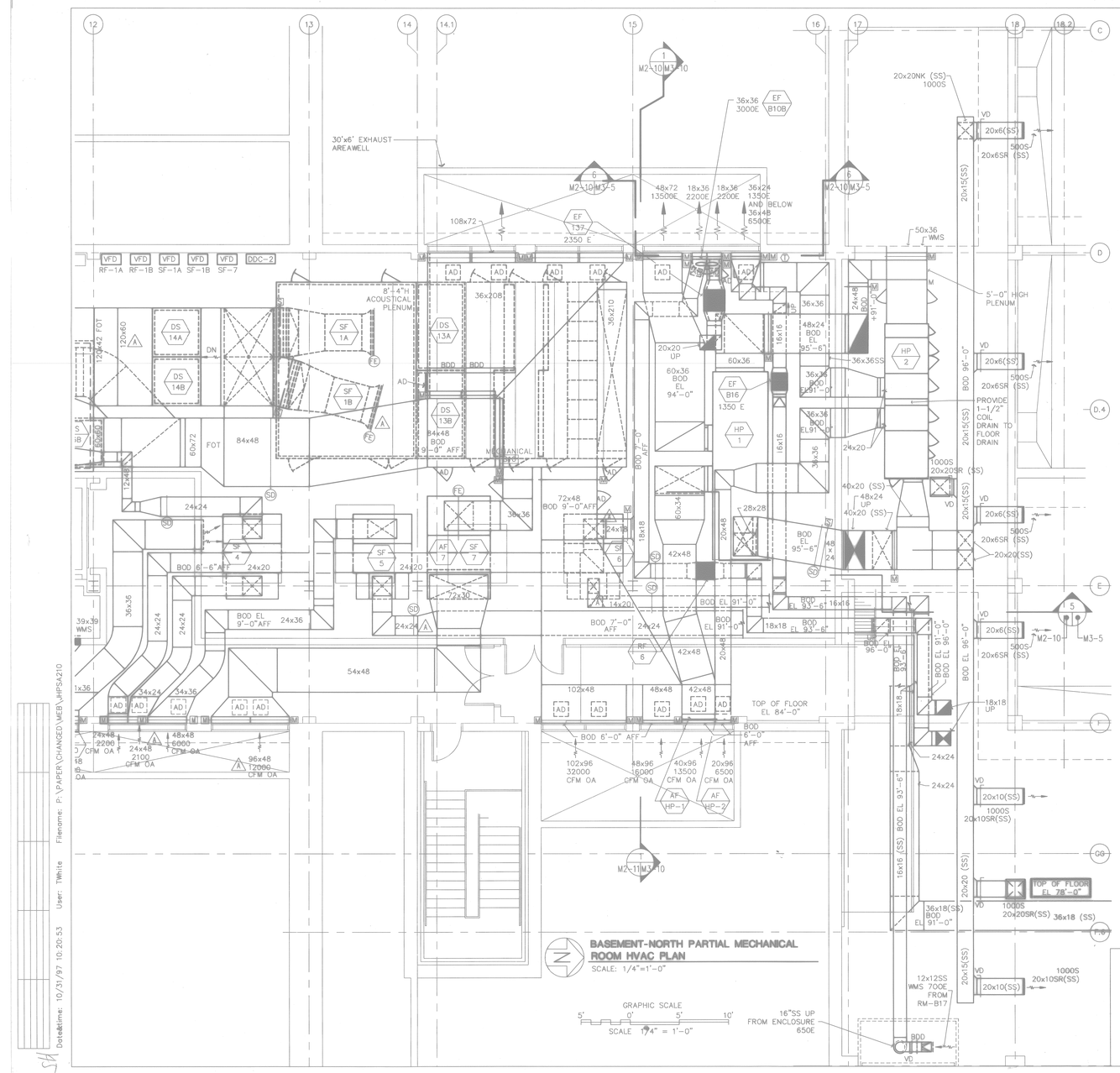
44


BASEMENT-NORTH PARTIAL MECHANICAL ROOM HVAC PLAN
SCALE: 1/4"=1'-0"
GRAPHIC SCALE
SCALE 1/4" = 1'-0"
16"SS UP FROM ENCLOSURE 650E
12x12SS WMS 70OE FROM RM-B17
30'x6' EXHAUST AREAWELL
8'-4"H ACOUSTICAL PLENUM
MECHANICAL
5'-0" HIGH PLENUM
PROVIDE 1-1/2" COIL DRAIN TO FLOOR DRAIN
TOP OF FLOOR EL 84'-0"
TOP OF FLOOR EL 78'-0"
BOD EL 91'-0"
BOD EL 96'-0"
BOD EL 93'-6"
BOD 6'-0" AFF
BOD 9'-0" AFF
BOD 6'-6" AFF
BOD 7'-0" AFF
BOD EL 9'-0" AFF
WASTE F TANKS
TRAP BOTTOM OF EACH 3" RISER AND ROUTE TO OIL/WATER SEPARATOR
24x24 DAMPER (TYP FOR 2)
BASEMENT-NORTH PARTIAL TANK ROOM HVAC PLAN
SCALE: 1/4"=1'-0"
FLOOR KEY PLAN
RECORD DRAWING
DATE 06/08/98
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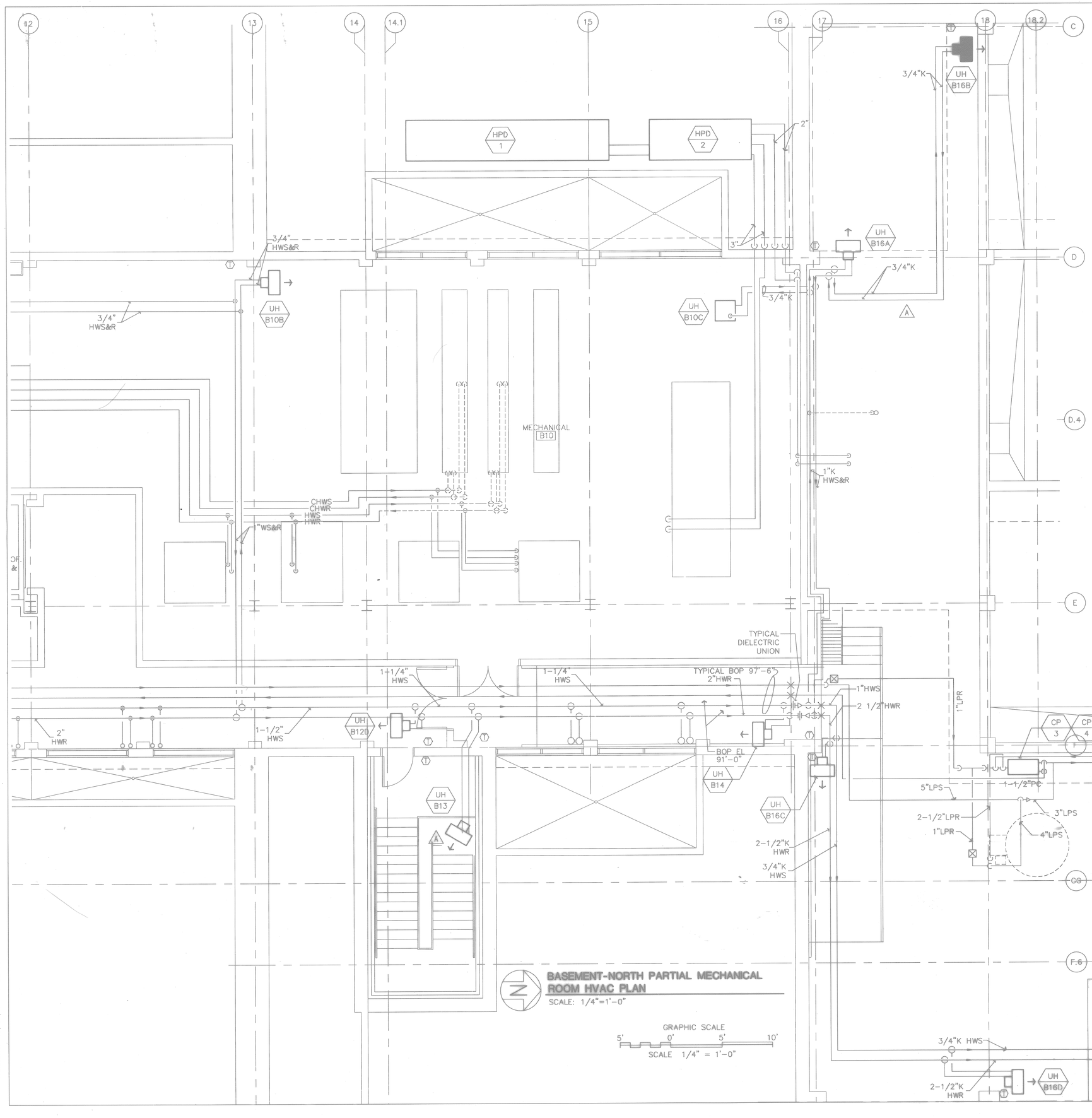
SOUTHERN DIVISION
CHARLESTON, S.C.
NAVAL TRAINING CENTER
GREAT LAKES, ILLINOIS
DAMAGE CONTROL SCHOOL
BASEMENT-NORTH PARTIAL
MECHANICAL RM DUCTWORK PLAN
DRAWING NO. M2-10A
CONTR CONTR NO. N62467-93-C-1143
SPEC 06-93-1143
SCALE 1/4"=1'-0"
Date/time: 10/31/97 10:20:53 User: TWhite Filename: P:\PAPER\CHANGED\MEB\JHPSA210



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APPROVED DATE
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NAVAL TRAINING CENTER GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL
BASEMENT-NORTH PARTIAL MECHANICAL RM PIPING PLAN

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5354861	M2-10B

CONSTR CONTR NO. N62467-93-C-1143
SCALE 1/4"=1'-0" SPEC 06-93-1143 SHEET 146 OF

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TOP OF STACK
ELEV= 175'-6"

50"SS
38"SS
50"SS
50"SS
96x60SS CROSS CONNECT
GUIDE
96x60SS CROSS CONNECT
50"SS
GUIDE
GUIDE
50"SS
30"SS
24"SS
50"SS
HTEF 1
HTEF 8
HTEF 2
ANCHOR
ANCHOR
EF 10
AC 2
4" OPEN FUNNELS BELOW PLENUM DRAINS PIPED 2" TO DEDICATED SANITARY DRAINS
2'-0" HIGH CURBS
2'-0" HIGH CURBS BY DIV.15
40x40 MOTORIZED DAMPER
GUIDES BELOW ROOF
16x16SS UP THRU ROOF
36x36 SS
TYP 2" DRAINS IN LOW VELOCITY PLENUMS
GUIDES BELOW ROOF
ECCENTRIC 24"SS TO 30"SS REDUCER
24x24 SS MOTORIZED DAMPER
18"SS
18"SS TO 18x18 SS SQUARE TO ROUND
28x28SS WMS
2500E
60x60 SS WMS 10000E (WITH ROLL-UP DOORS OPEN)
18"SS TO 18x18 SS SQUARE TO ROUND
18x18 MOTORIZED DAMPER
18x18 MOTORIZED DAMPER
18x18 MANUAL DAMPER
18x18 MANUAL DAMPER
18"SS TO 18x18 SS SQUARE TO ROUND
24x24 SS MANUAL DAMPER
18x18 SS MANUAL DAMPER
CONCENTRIC 18x18 SS TO 24x24 SS REDUCER
24x24 TO 24D SQUARE TO ROUND 18x18 SS MOTORIZED DAMPER
24x24 SS
2"D OPENING IN DUCT (2 SIDES)
30x18 SS
2"D OPENING IN DUCT (2 SIDES)
M3-1
M3-6
9'-0" ABOVE TOP OF GRATING
24x24 OPENING W/SS WMS
4600E
COMPARTMENT 8
STAIR COMPARTMENT
30x18 OPENING W/SS WMS
4600E
COMPARTMENT 7
DUCT EXPANSION JOINT
ECCENTRIC 24"SS TO 28x40SS REDUCER
DUCT EXPANSION JOINT
ECCENTRIC 18"SS TO 30x18 REDUCER
18"SS
24x20SS
24x20SS
16x30
16x30
16x30
24x30SS
28x40SS
2"D OPENING IN DUCT (2 SIDES)
30x18 SS
AD
FD
2" BELOW SLAB (ABOVE CEILING PLATES)
28x40 OPENING W/SS WMS
30x18 OPENING W/SS WMS
9'-0" ABOVE TOP OF GRATING
36 x 18 SS
9200E
4600E
M3-1
M3-6
COMPARTMENT 4
COMPARTMENT 3
36x27SS
INSULATION CONTINUOUS THRU WALL OPENING (TYPICAL)
48x48SS
44x44SS
AD FOR FD
AD FOR SMOKE DAMPER
12x12SS
48x20SS
20x30SS
VD
BOD ELEV 95'-4"
TAPERED INSULATION AT TOP OF LEVEL OUTDOOR DUCTS (TYPICAL)
HVU 1
48x48SS
36x27SS
44x44SS
DUCT SUPPORT BETWEEN INSIDE & OUTSIDE CORNERS OF ELBOW
GALVANIZED & PAINTED DUCT SUPPORTS
MOTORIZED DAMPER
AD FOR SMOKE DAMPER
(2) 1/2" HOLES FOR CONDENSATION DRAINAGE
SEAL AIRTIGHT ALL AROUND DUCT BOTH SIDES OF CRAWL SPACE
(2) 1/2" HOLES FOR CONDENSATION DRAINAGE
48x24SS
(2) 1/2" HOLES FOR CONDENSATION DRAINAGE
MOTORIZED DAMPER
GALVANIZED & PAINTED DUCT SUPPORTS
HVU 2

GRAPHIC SCALE
5' 0' 5' 10'
SCALE 1/4" = 1'-0"

1 N-S SECTION LOOKING WEST
SCALE: 1/4"= 1'-0"

M2-1
M2-2
M2-3
M3-1

2.6 3.4 3.6 4.4

TAPERED INSULATION AT TOP OF LEVEL OUTDOOR DUCTS
HVU 7
95'-6" BOD ELEV
DUCT SUPPORT BETWEEN INSIDE & OUTSIDE CORNERS OF ELBOW
DUCT SUPPORT
11
M3-1
C5-1

2 HVU-7 SECTION LOOKING WEST
SCALE: 1/4"= 1'-0"

M2-1
M3-1

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DATE 07-31-97 ISSUE CORRECTED TO AS-BUILT BY MEB INITIAL

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Established in 1949
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DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
SOUTHERN DIVISION
CHARLESTON, S.C.

DSGN KOWALIK KSIAZEK CHK RAUCH
SUPV RAUCH CH. ENGR
SUBMITTED BY DATE
FIRM MEMBER TITLE
EIC GR HD
FPE DR
APPROVED DATE
OFFICER IN CHARGE
APPROVED DATE
EFD FOR COMMANDER, NAVFAC

NAVAL TRAINING CENTER GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL
LOOKING WEST
HVAC NORTH-SOUTH SECTION

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276561	M3-1
SCALE 1/4"=1'-0"		CONSTR CONTR NO. N62467-93-C-1143	
	SPEC 06-93-1143	SHEET 47 OF	

ARCH. & ENGR. SEAL

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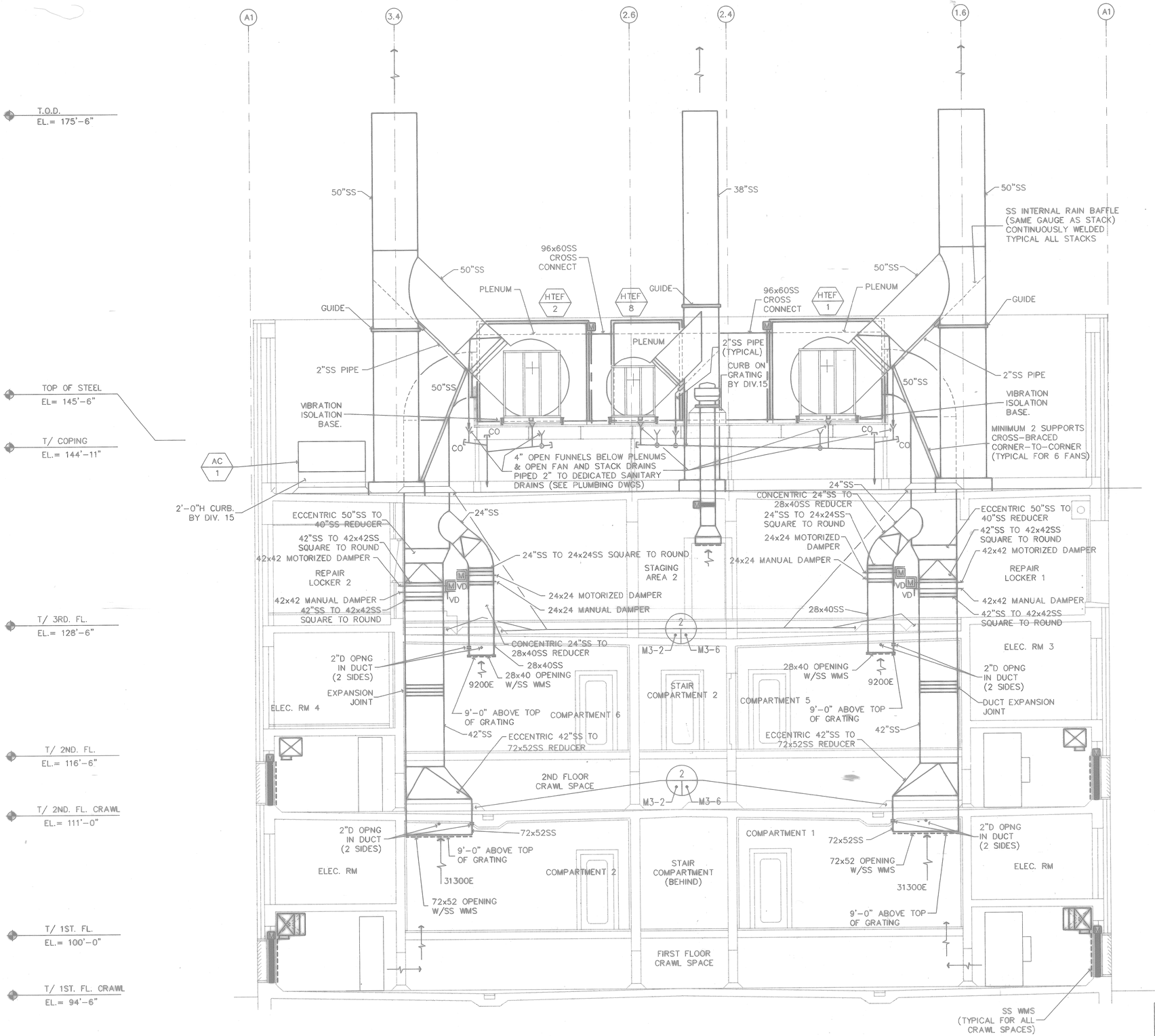

N-S SECTION LOOKING EAST

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SOUTHERN DIVISION
CHARLESTON, S.C.
NAVAL TRAINING CENTER
GREAT LAKES, ILLINOIS

DESIGN KOWALIG KSIAZEK CHK RAUCH
SUPV RAUCH CH ENGR
SUBMITTED BY DATE
PRM MEMBER STYLE
EIC SR HD
FPE DIR

DAMAGE CONTROL SCHOOL
LOOKING EAST
HVAC NORTH-SOUTH SECTION

CHRISTOPHER S. RAUCH E-64727 STATE OF OHIO REGISTERED PROFESSIONAL ENGINEER

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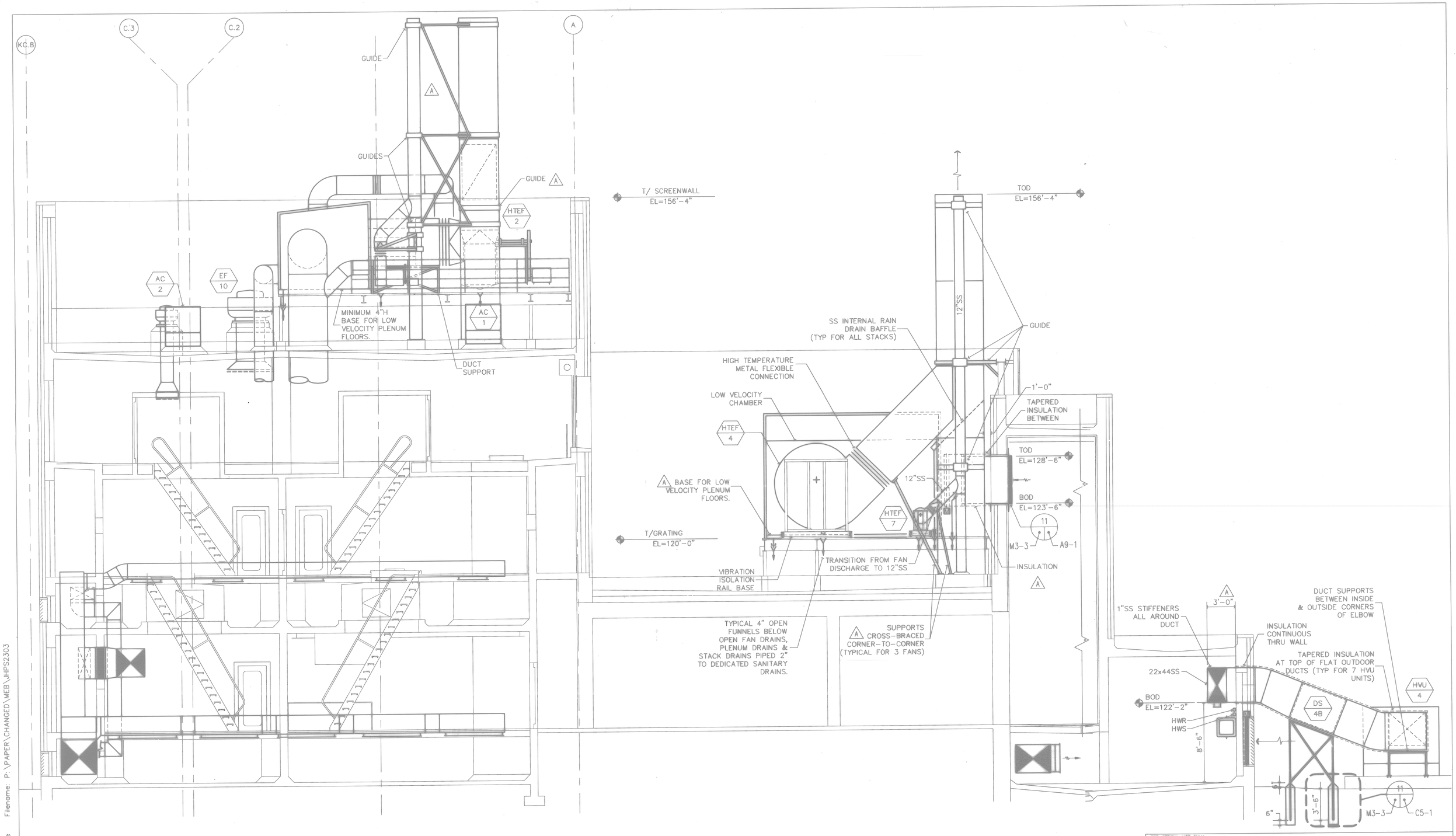

1 **E-W SECTION LOOKING SOUTH**
SCALE: 1/4"=1'-0"

GRAPHIC SCALE
5' 0' 5' 10'
SCALE 1/4" = 1'-0"

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DATE 06/08/98

DND 05/06/98

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FPE DIR
APPROVED DATE
OFFICER IN CHARGE
APPROVED DATE
FFD FOR COMMANDER NAVFAC

NAVAL TRAINING CENTER GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL
LOOKING SOUTH
HVAC EAST-WEST SECTION

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276563	M3-3

CONSTR CONTR NO. N62467-93-C-1143
SCALE 1/4"=1'-0" SPEC 06-93-1143 SHEET 149 OF

ARCH. & ENGR. SEAL

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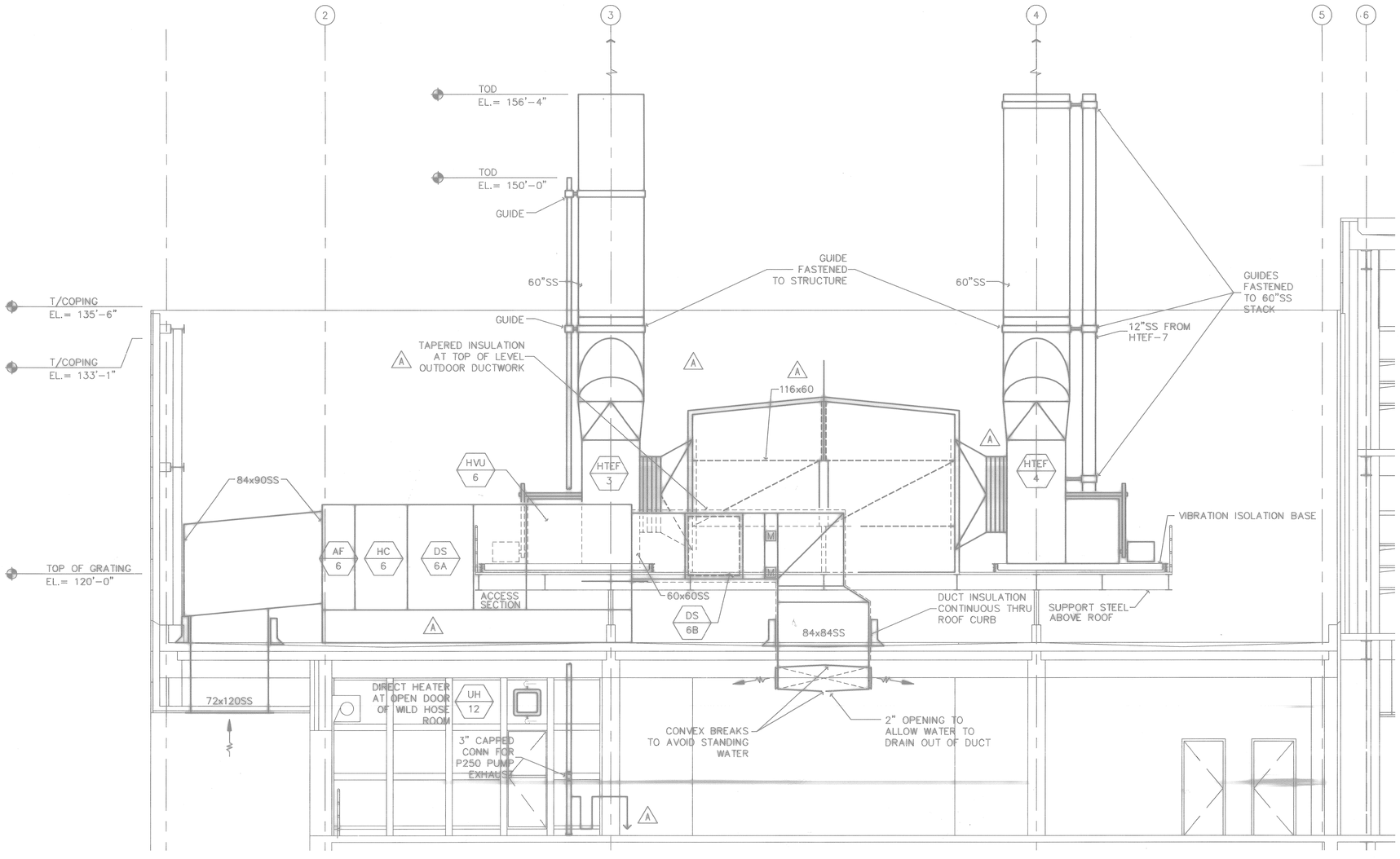

1 N-S SECTION LOOKING WEST
SCALE: 1/4"=1'-0"

GRAPHIC SCALE
5' 0' 5' 10'
SCALE 1/4" = 1'-0"

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DSGN KOWALIK KSIAZEK CHK 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	NAVAL TRAINING CENTER	GREAT LAKES, ILLINOIS
	DAMAGE CONTROL SCHOOL LOOKING WEST HVAC NORTH-SOUTH SECTION	
ARCH. & ENGR. SEAL	SIZE F · CODE IDENT NO. 80091 · NAVFAC DRAWING NO. 5276564 · DRAWING NO. M3-4	
	CONSTR CONTR NO. N62467-93-C-1143	
	SCALE 1/4"=1'-0" · SPEC 06-93-1143 · SHEET 30 of	

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