ABBREVIATIONS

AC	AIR COMPRESSOR
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BLDG	BUILDING
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STEEL
CA	COMPRESSED AIR
CAP	CAPACITY
CB	CATCH BASIN
CLG	CEILING
CI	CAST IRON
CL	CENTERLINE
CO	CLEANOUT
COL	COLUMN
COMP	COMPRESSOR
CONN	CONNECTION
CONT	CONTINUATION
CU	CUBIC
D, DIA	DIAMETER
DEG	DEGREES
DF	DRINKING FOUNTAIN
DN	DOWN
DS	DOWNSPOUT
DWG	DRAWING
EL	ELEVATION
ELEC	ELECTRIC, ELECTRICAL
ES	EMERGENCY STATION
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
F	FAHRENHEIT
FD	FLOOR DRAIN
FL	FLOOR
FL MTD	FLOOR MOUNTED
FP	FIRE PROTECTION
FT (')	FEET
GA	GAUGE
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HEIGHT
HB	HOSE BIBB
HORIZ	HORIZONTAL
HP	HORSEPOWER
HR	HOUR
HWH	HOT WATER HEATER
HZ	HERTZ
IE	INVERT ELEVATION
IN (")	INCH
L	LENGTH
LAV	LAVATORY
LBS	POUNDS
MAX	MAXIMUM
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO (#)	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OHD	OPEN HUB DRAIN
%	PERCENT
PD	PRESSURE DROP
PH	PHASE
PLBG	PLUMBING
PRESS	PRESSURE
PRV	PRESSURE RELIEF VALVE
PSI(G)	POUNDS PER SQUARE INCH (GAUGE)
RD	ROOF DRAIN
RPM	REVOLUTIONS PER MINUTE
SAN	SANITARY
SH	SHOWER
SK	SINK
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL, SERVICE SINK
SSD	SUB-SOIL DRAIN
STD	STANDARD
TEMP	TEMPERATURE
TOS	TOP OF STEEL
TYP	TYPICAL
UR	URINAL
VERT	VERTICAL
V	VENT, VOLTS
VA	VALVE
VB	VACUUM BREAKER
VTR	VENT THRU ROOF
W/	WITH
W	WASTE, WIDTH
WC	WATER CLOSET
WF	WASH FOUNTAIN
WG	WATER GAUGE
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR

PIPING LEGEND

AFFF-C	AQUEOUS FILM FORMING FOAM (CONCENTRATE)
AFFF-CR	AQUEOUS FILM FORMING FOAM (CONCENTRATE) RETURN
AFFF-S	AQUEOUS FILM FORMING FOAM (SOLUTION)
AFFF-6	AQUEOUS FILM FORMING FOAM (6% SOLUTION)
CA	COMPRESSED AIR
CO2	CARBON DIOXIDE
CO2-R	CARBON DIOXIDE RETURN
-	DOMESTIC COLD WATER
- -	DOMESTIC HOT WATER
- - -	DOMESTIC HOT WATER RETURN
OV	OIL VENT
OWW	OIL WASTE WATER
PWW	PROCESS WASTE WATER
PWS-1	PROCESS WATER SUPPLY (FIRE FIGHTER TRAINER)
PWS-2	PROCESS WATER SUPPLY (DAMAGE CONTROL TRAINER)
PV	PROPANE VAPOR
SAN	SANITARY
SAN	SANITARY (UNDERGROUND)
ST	STORM
ST	STORM (UNDERGROUND)
TW	TEMPERED WATER
V	VENT
V	VENT (UNDERGROUND)
SSD	SUBSOIL DRAIN

PLUMBING EQUIPMENT SYMBOLS

	P-TRAP (PLAN)
	P-TRAP (ELEVATION)
	AIR CHAMBER
VB	VACUUM BREAKER
OR FD	FLOOR DRAIN
ROB	ROD OUT BASIN
RD	ROOF DRAIN
CO	CLEANOUT FLUSH WITH FLOOR
CO	SUSPENDED CLEANOUT

PLUMBING FIXTURE SYMBOLS

(SEE FIXTURE SCHEDULE ON P4-1)

SYMBOL	TAG	DESCRIPTION
	P-1	WATER CLOSET
	P-2	URINAL
	P-3, P-4, & P-5	LAVATORY
	P-6 P-14	SERVICE SINK LAUNDRY TRAY
	P-7, P-8, & P-9	ELECTRIC WATER COOLER
	P-10 & P-13	SHOWER
	P-11 & P-12	GANG SHOWER MIXING VALVE
	P-15	COUNTERTOP SINK
	P-16	COUNTERTOP SINK
	P-17 & P-18	EMERGENCY STATIONS
	P-19	HOSE BIBB
WH	P-20	WALL HYDRANT FLUSH WITH WALL
	P-21	LAUNDRY SERVICE BOX

PIPING SYMBOLS

	DIRT POCKET
	Y-TYPE STRAINER
	Y-TYPE STRAINER WITH BALL DRAIN VALVE
	Y-TYPE STRAINER WITH GATE DRAIN VALVE
	EXPANSION JOINT
	FLEXIBLE CONNECTION
	PIPE ANCHOR
	PIPE GUIDE
	UNION
	BLIND FLANGE OR PLUG
	CAP
	THERMOMETER OR TEMPERATURE GAUGE
PT	PRESSURE AND TEMPERATURE TEST PLUG
	PRESSURE GAUGE ASSEMBLY
	MANUAL AIR VENT VALVE
	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
	PUMP (IN SCHEMATIC)
	FUNNEL DRAIN
	WATER HAMMER ARRESTOR

VALVE SYMBOLS

	ANGLE VALVE
	CALIBRATED BALANCING VALVE (CIRCUIT SETTER)
	BALL VALVE
	BUTTERFLY VALVE
	GATE VALVE
	GLOBE VALVE
	PLUG VALVE OR COCK
	RELIEF VALVE
S	SOLENOID VALVE
	SWING CHECK VALVE

TAGS AND TITLES

DETAIL SEQUENCE NUMBER

TITLE OF DETAIL
SCALE OF DETAIL

DETAIL TITLE

EQUIPMENT TAG
EQUIPMENT NUMBER

EQUIPMENT IDENTIFICATION TAG (SEE SCHEDULE FOR CAPACITIES)

DETAIL DESIGNATION

P0-1 P0-1

SHEET ON WHICH DETAIL IS DRAWN

SHEET ON WHICH DETAIL IS REFERENCED

DETAIL IDENTIFICATION TAG

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SOUTHERN DIVISION
CHARLESTON, S.C.

NAVAL TRAINING CENTER — GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL
PLUMBING SYMBOLS AND ABBREVIATIONS

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
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		CONSTR CONTR NO. N62467-93-C-1143	
SCALE NONE		SPEC 08-93-1143	SHEET 177 OF

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P: TTL-BLOCK PS size=0,0
P: JPPSP001 PS size=0,0
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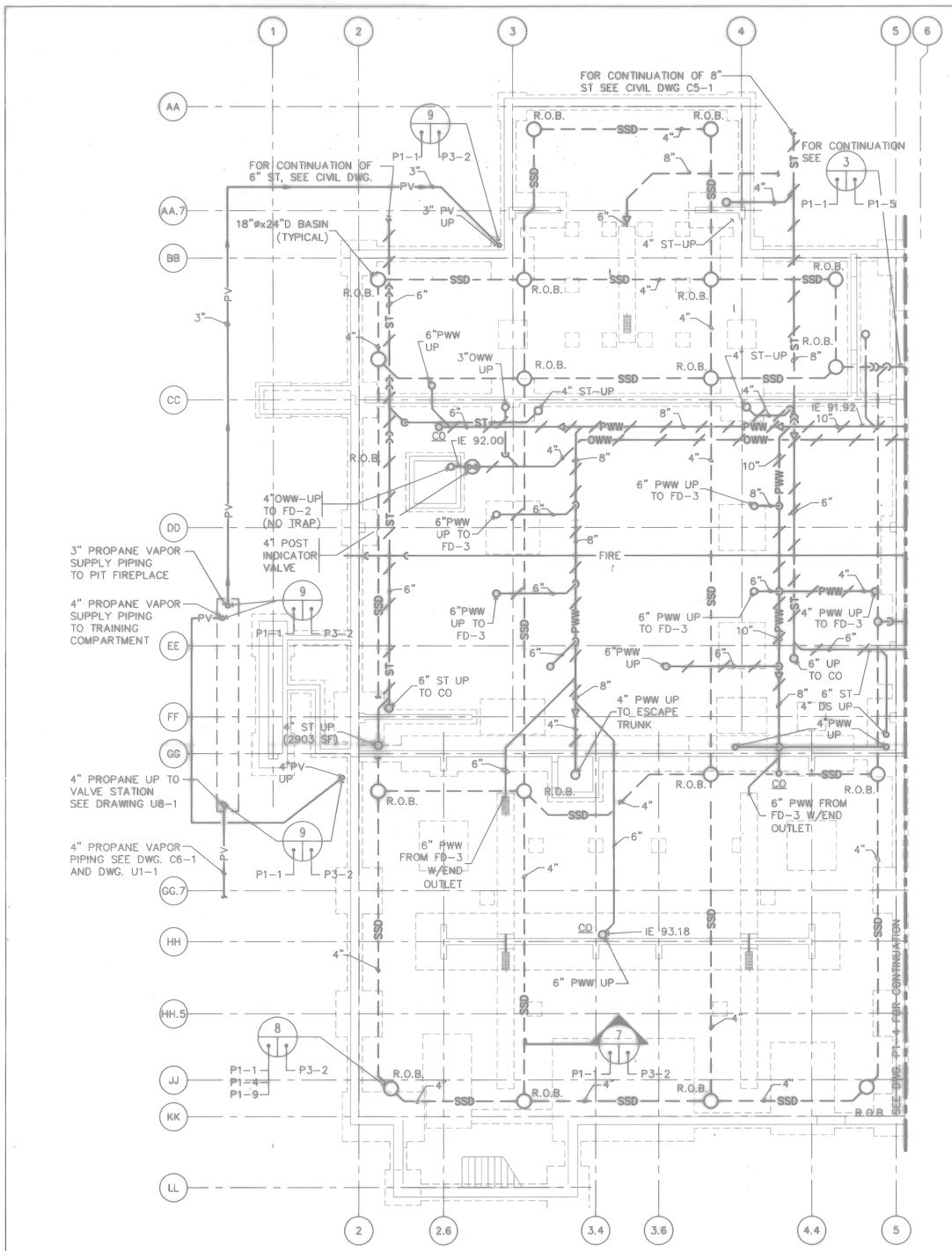
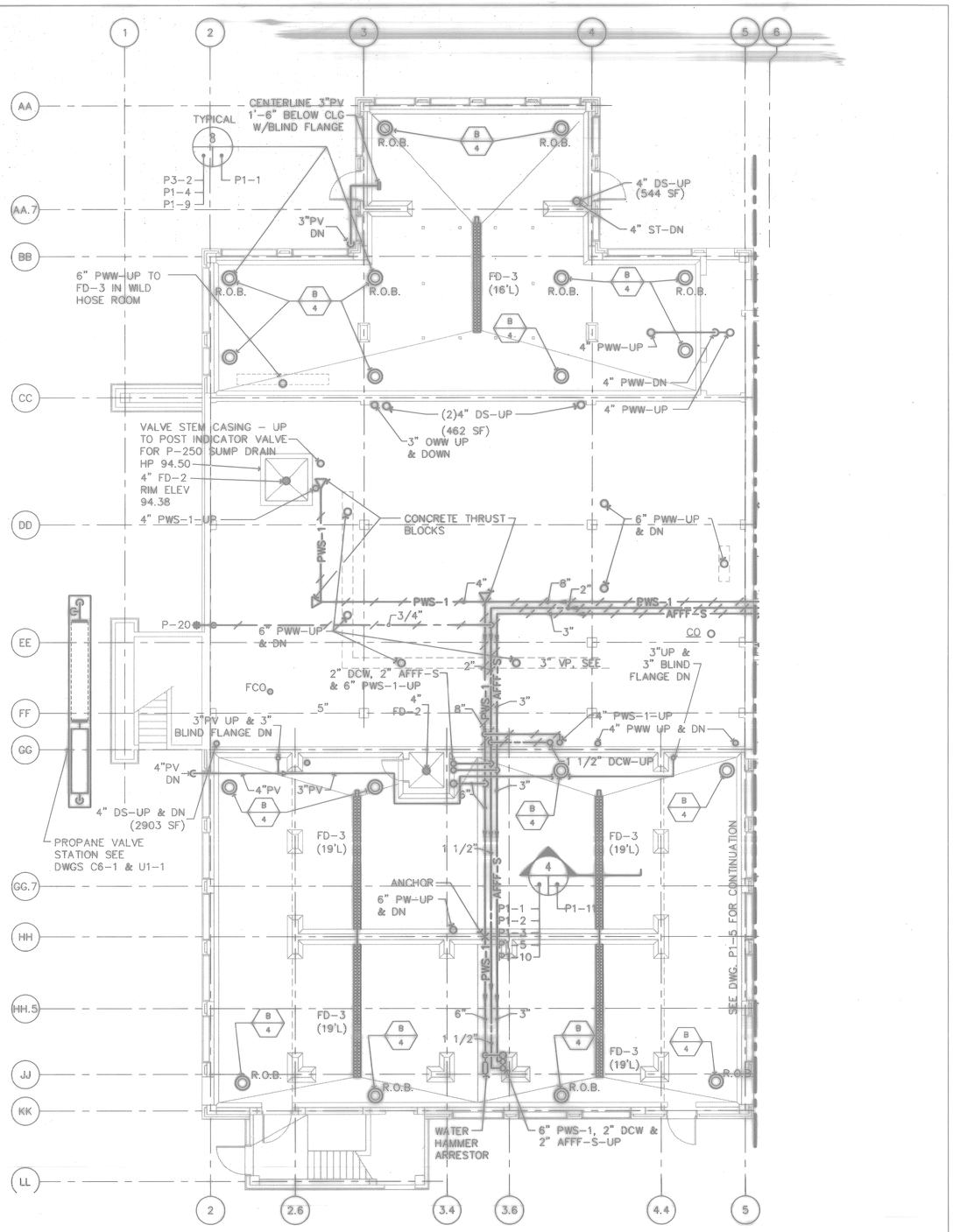
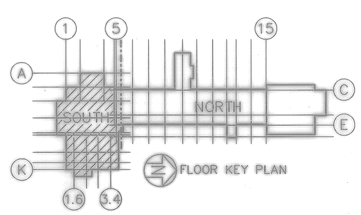




1 UNDERFLOOR PLAN - SOUTH
SCALE: 1/8"=1'-0"
P1-1

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



FLOOR KEY PLAN

2 FIRST FLOOR CRAWL SPACE - SOUTH
SCALE: 1/8"=1'-0"
P1-1

A AFFECTS ENTIRE SHEET

NOTE
1. ALL FLOOR DRAINS AND TRENCH DRAINS CONNECTED TO THE PROCESS WASTE WATER (PWW) SYSTEM SHALL BE INSTALLED WITHOUT TRAPS.

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DAMAGE CONTROL SCHOOL
UNDERFLOOR PLAN AND FIRST FLOOR CRAWL SPACE - SOUTH

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 178 OF

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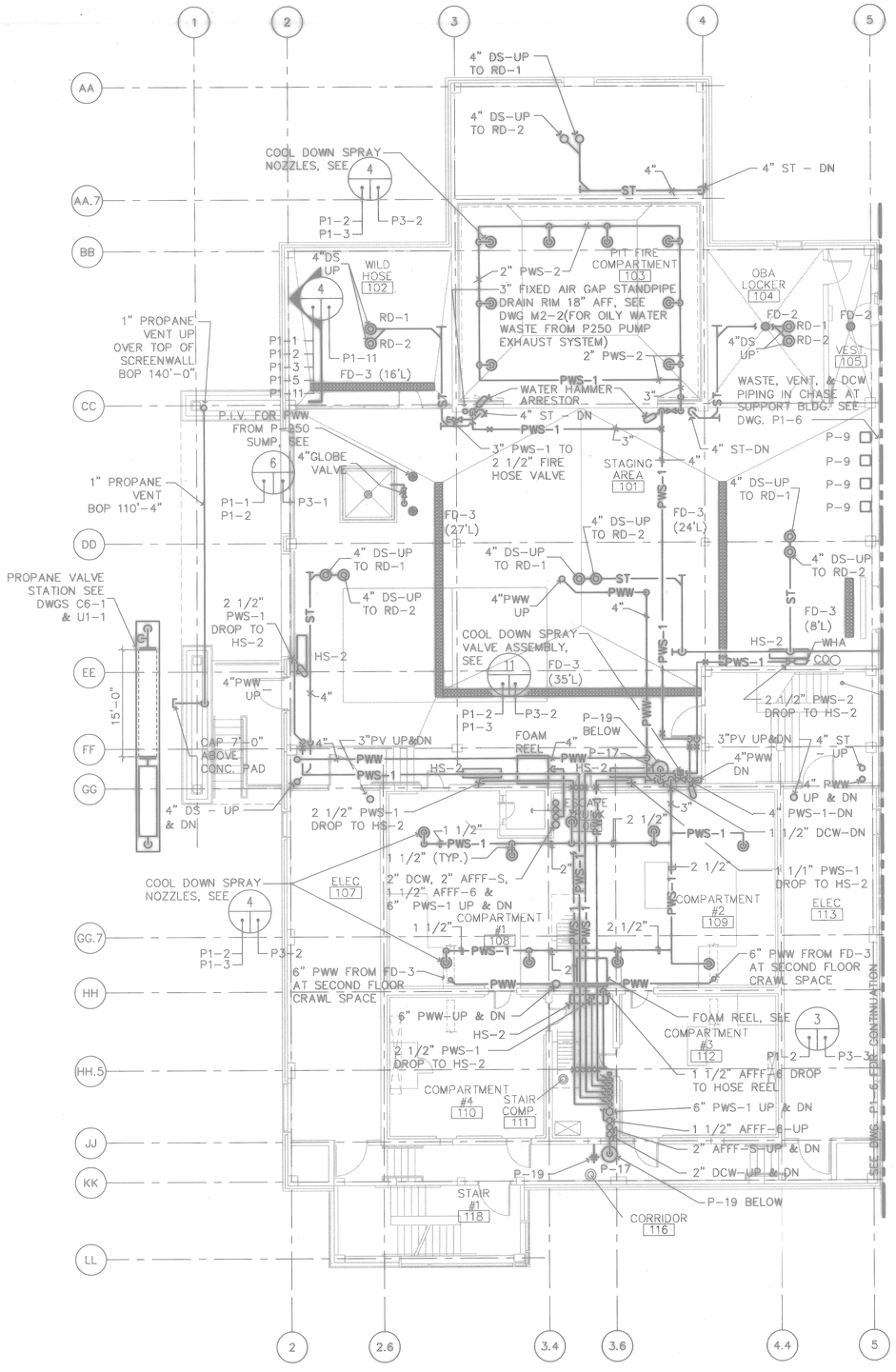
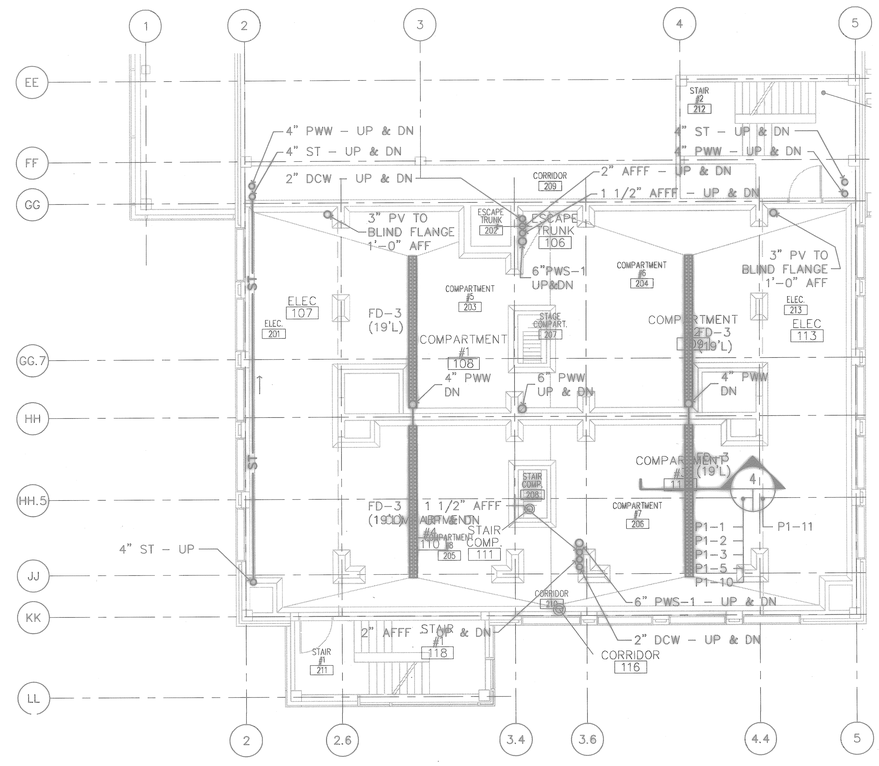
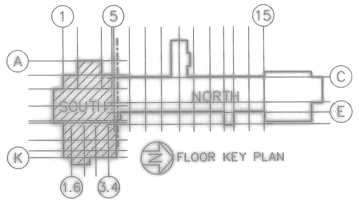


1 FIRST FLOOR PLAN - SOUTH
SCALE: 1/8"= 1'-0"
P1-2



2 SECOND FLOOR CRAWL SPACE PLAN - SOUTH
SCALE: 1/8"= 1'-0"
P1-2

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



FLOOR KEY PLAN

A AFFECTS ENTIRE SHEET

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

DAMAGE CONTROL SCHOOL
FIRST FLOOR PLAN AND SECOND FLOOR CRAWL SPACE - SOUTH

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276593	P1-2
		CONSTR CONTR NO. N62467-93-C-1143	
SCALE 1/8"=1'-0"		SPEC 06-93-1143	SHEET 179 OF

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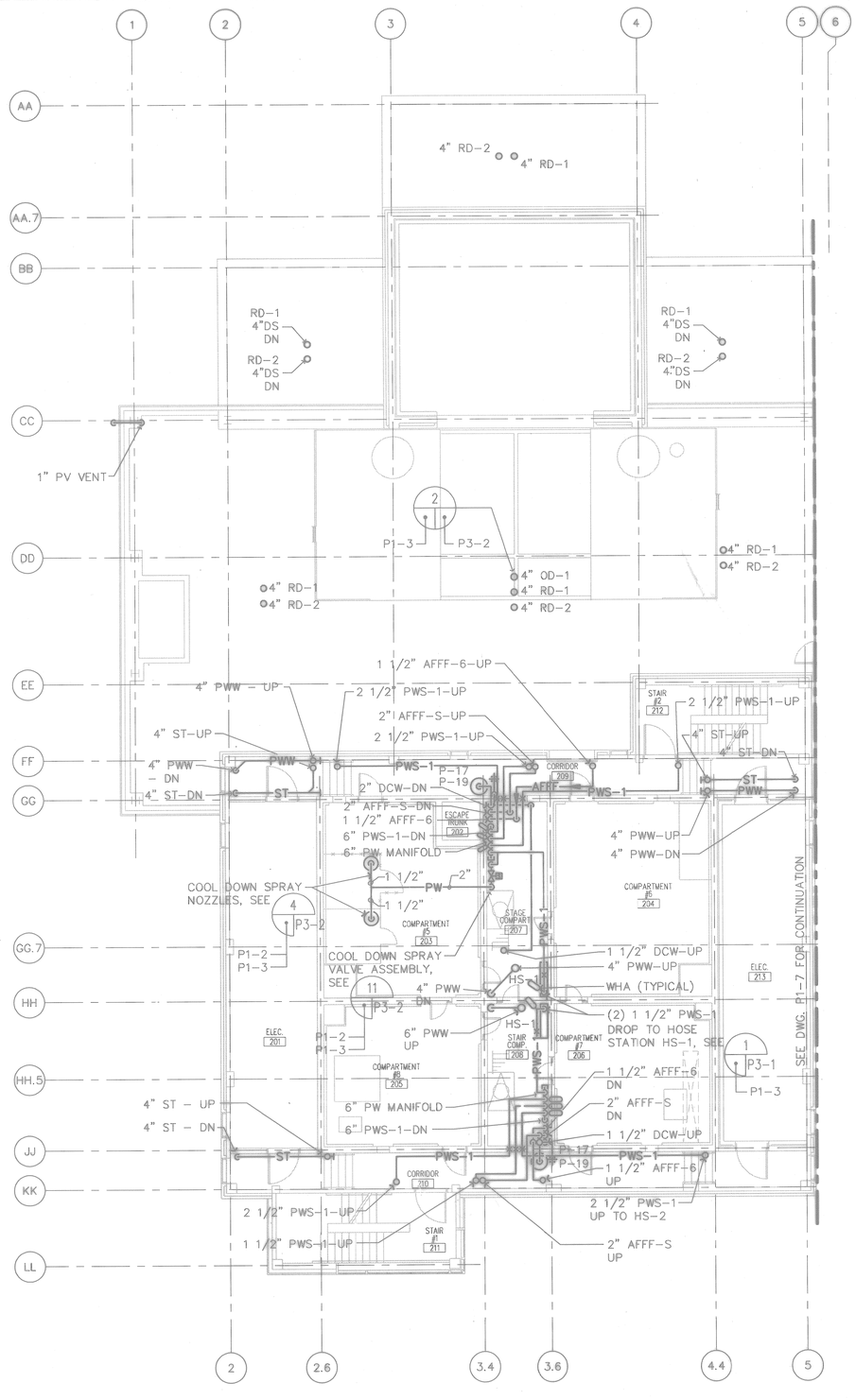
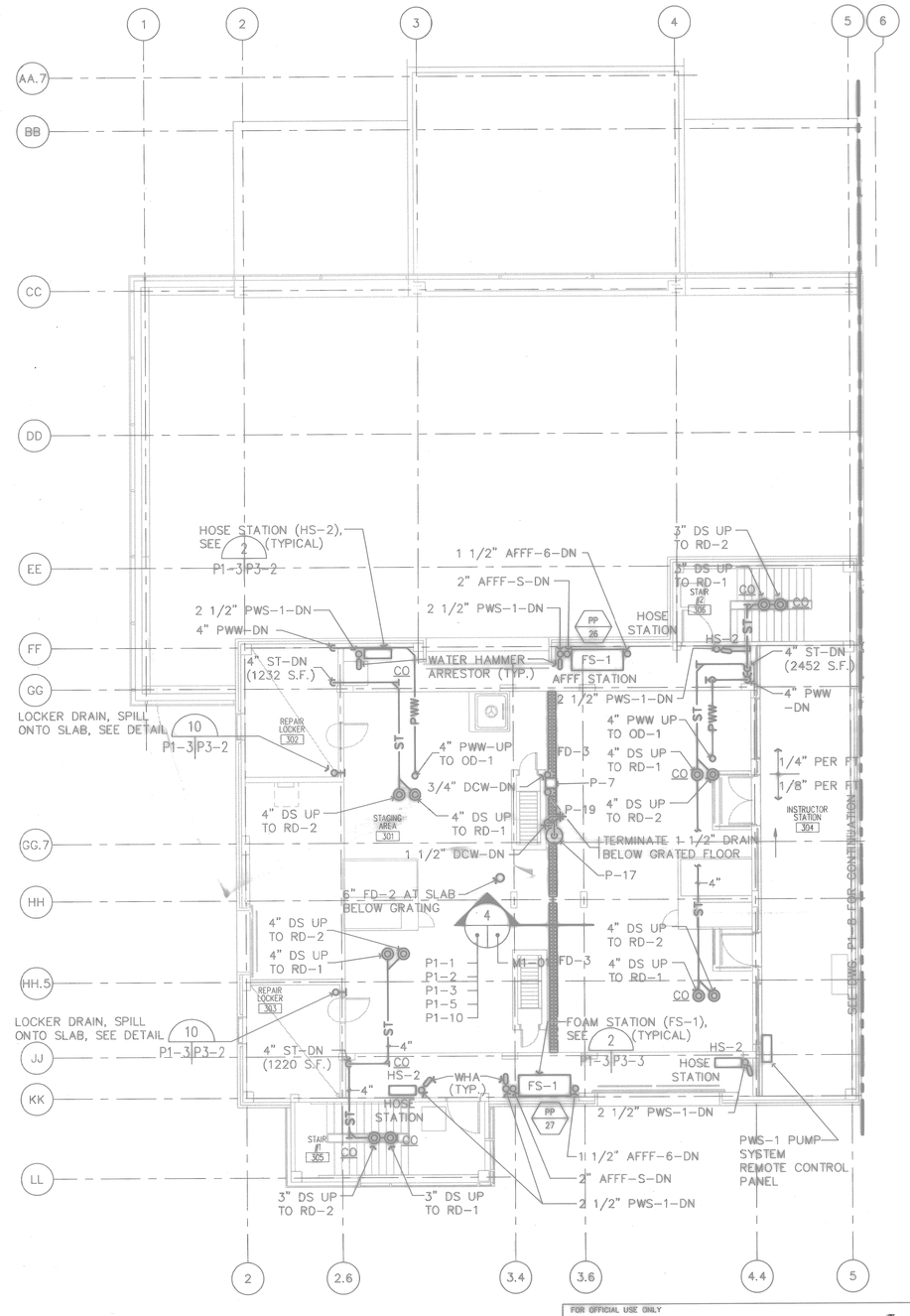
179



1 **SECOND FLOOR PLAN - SOUTH**

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

P1-3



2 **THIRD FLOOR PLAN - SOUTH**

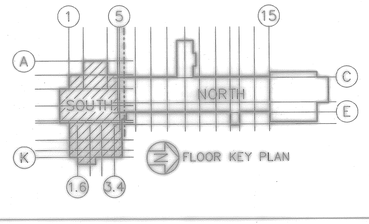
SCALE: 1/8"=1'-0"

P1-3

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
SECOND FLOOR PLAN AND
THIRD FLOOR PLAN - SOUTH

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276594	P1-3
SCALE 1/8"=1'-0"		CONSTR CONTR NO. N62467-93-C-1143	SPEC 08-93-1143 SHEET 180

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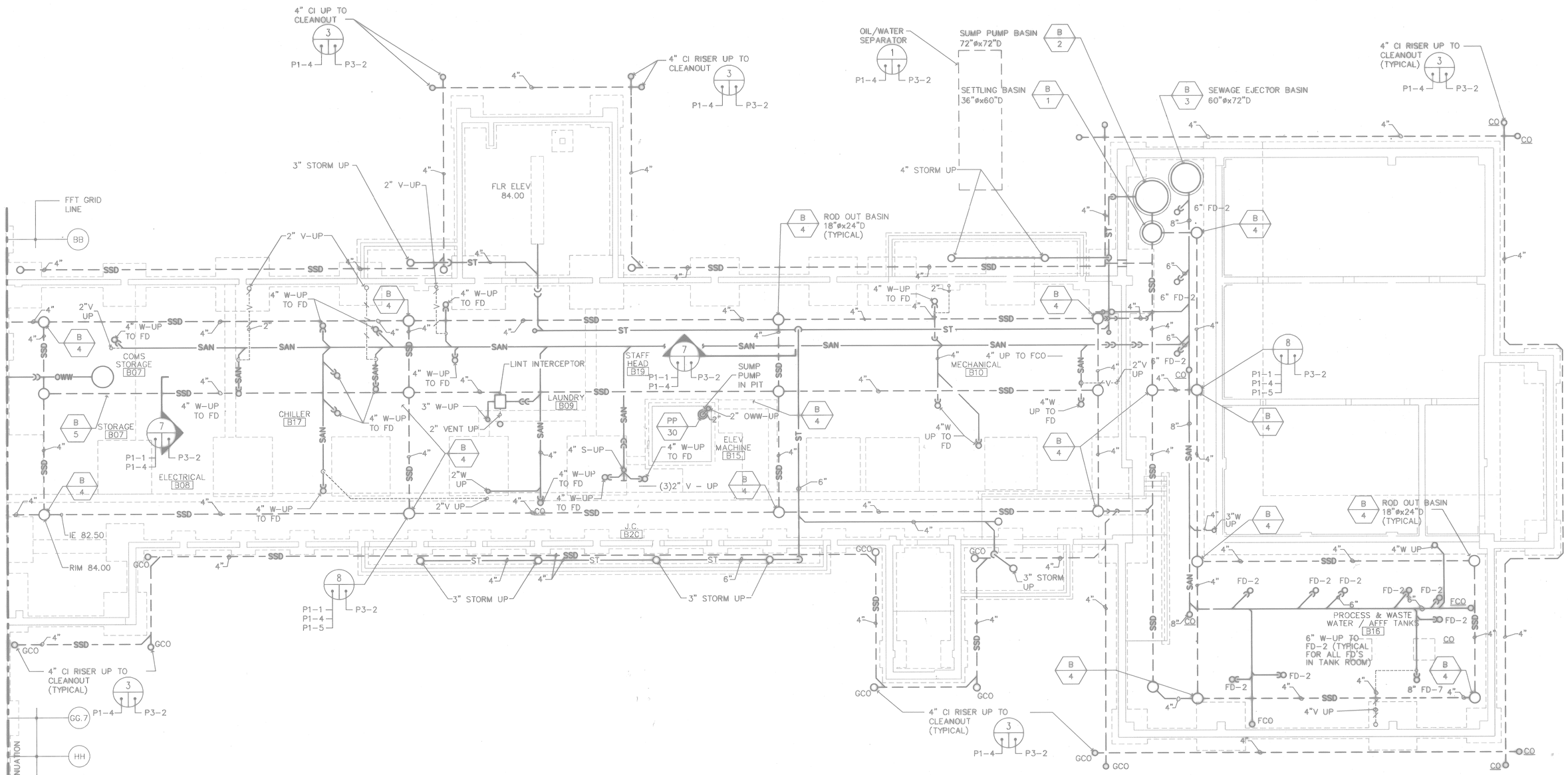
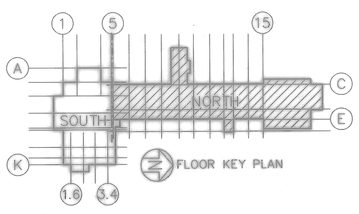


UNDERFLOOR PLAN - NORTH

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

P1-4



FLOOR KEY PLAN

GRAPHIC SCALE

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

SCALE 1/8" = 1'-0"

A AFFECTS ENTIRE SHEET

NOTE

1. PROVIDE LINT INTERCEPTOR WITH ACID RESIST COATING (INSIDE & OUT) FABRICATED STEEL WITH NON-SKID SECURED STEEL COVER AND STAINLESS STEEL SCREEN ASSEMBLY, 4 INCH PIPE CONNECTIONS, FOR MINIMUM FLOW RATE OF 100 GPM.

2. ALL FD-2 TYPE FLOOR DRAINS IN IN TANK ROOM SHALL BE 6" UNLESS NOTED OTHERWISE.

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DAMAGE CONTROL SCHOOL
UNDERFLOOR PLAN - NORTH

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276595	P1-4
SCALE 1/8"=1'-0"		CONSTR CONTR NO. N62467-93-C-1143	
		SPEC 06-93-1143	SHEET 184 OF

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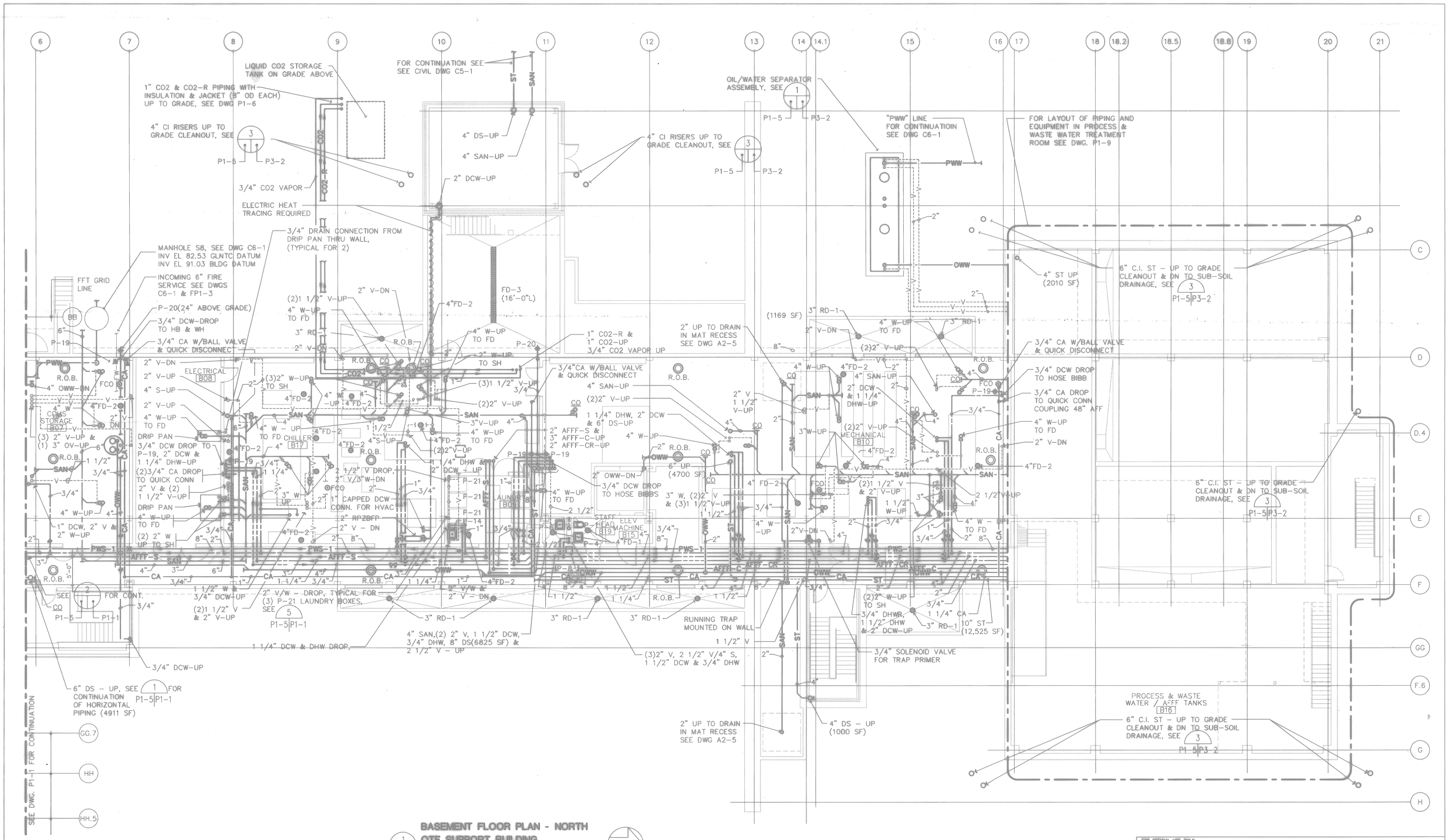
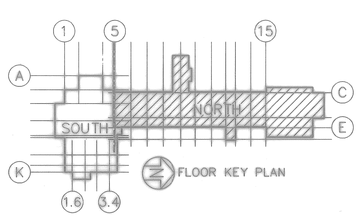


BASEMENT FLOOR PLAN - NORTH
OTF SUPPORT BUILDING

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

P1-5



GRAPHIC SCALE

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

SCALE 1/8" = 1'-0"

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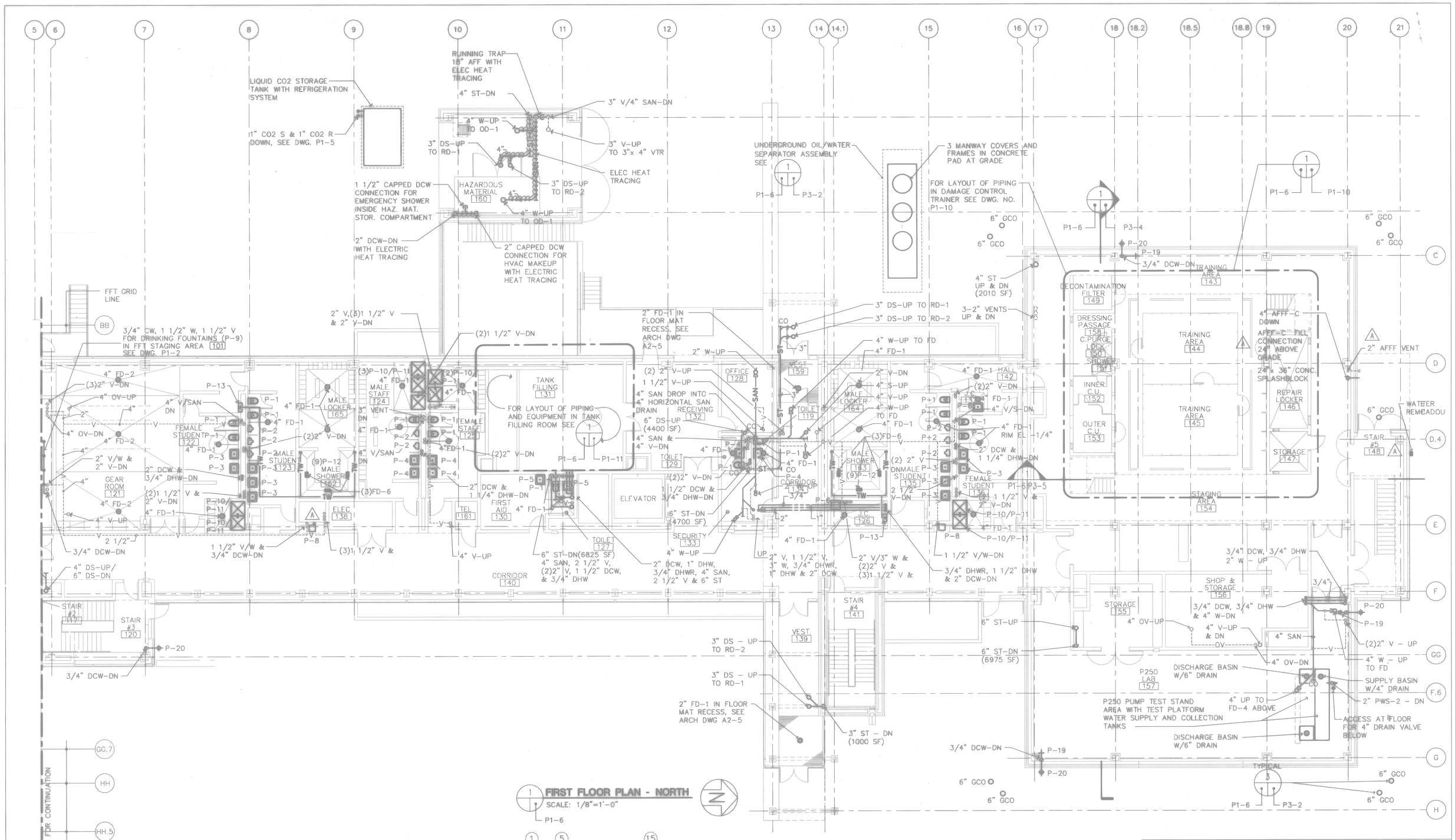
SOUTHERN DIVISION CHARLESTON, S.C.

NAVAL TRAINING CENTER GREAT LAKES, ILLINOIS

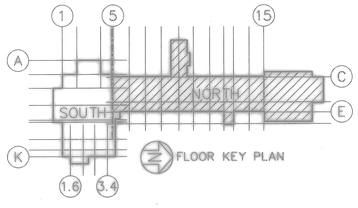
DAMAGE CONTROL SCHOOL
BASEMENT FLOOR PLAN - NORTH

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276596	P1-5
		CONSTR CONTR NO. N62467-93-C-1143	
SCALE 1/8"=1'-0"		SPEC 08-93-1143	SHEET 182 OF

Date&time: 10/30/97 11:05:04 User: TWhite Filename: P:\PAPER\CHANGED\DJS\JPPSP105



1 **FIRST FLOOR PLAN - NORTH**
SCALE: 1/8"=1'-0"
P1-6



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

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CHARLESTON, S.C.

NAVAL TRAINING CENTER GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL
FIRST FLOOR PLAN - NORTH

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276597	P1-6
		CONSTR CONTR NO. N62467-93-C-1143	
SCALE 1/8"=1'-0"		SPEC 08-93-1143	SHEET 183 OF

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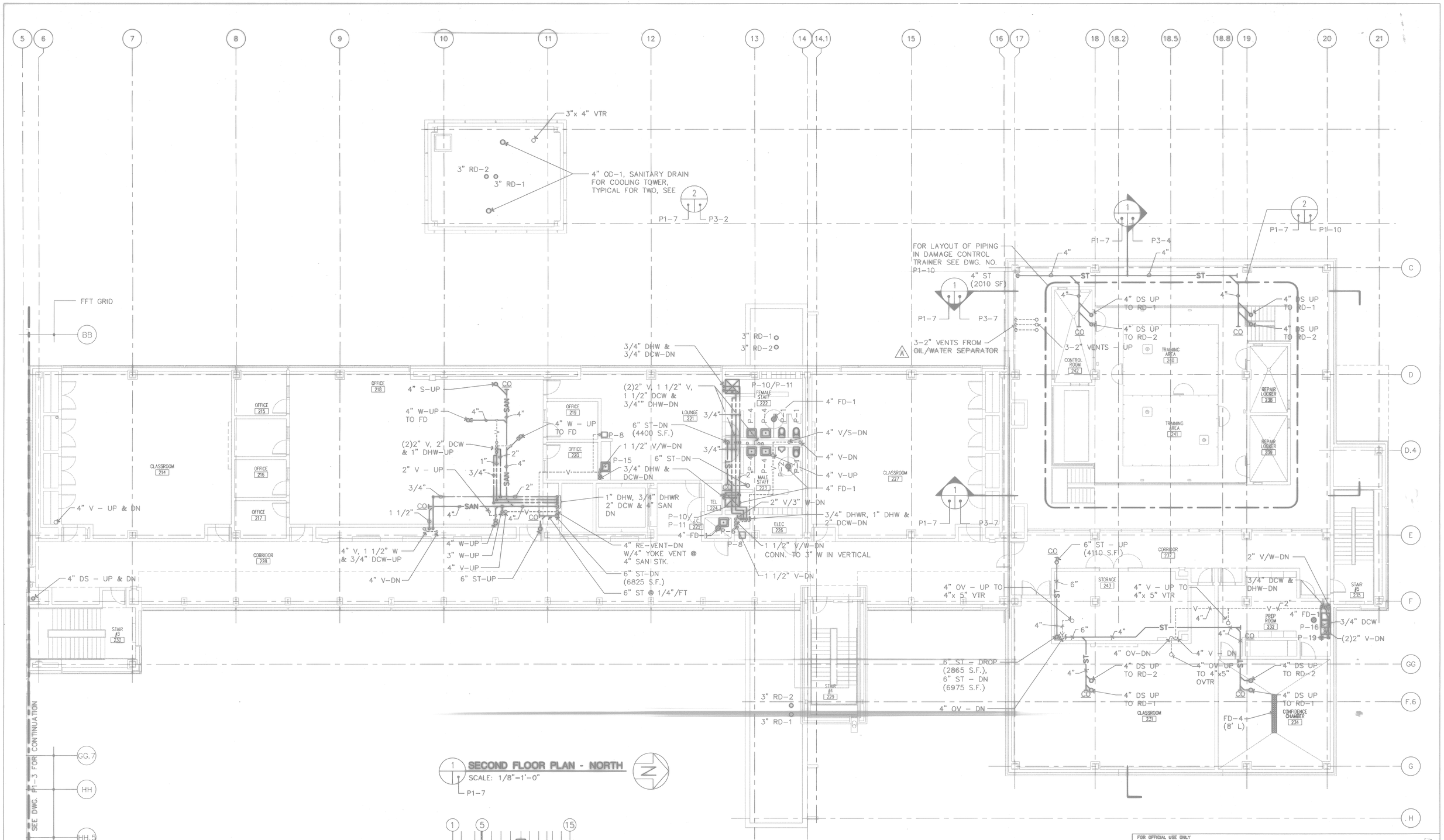

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DAMAGE CONTROL SCHOOL
SECOND FLOOR PLAN - NORTH

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SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276598	P1-7
		CONSTR CONTR NO. N62467-93-C-1143	
SCALE 1/8"=1'-0"		SPEC 08-93-1143	SHEET 184 OF

ARCH. & ENGR. SEAL

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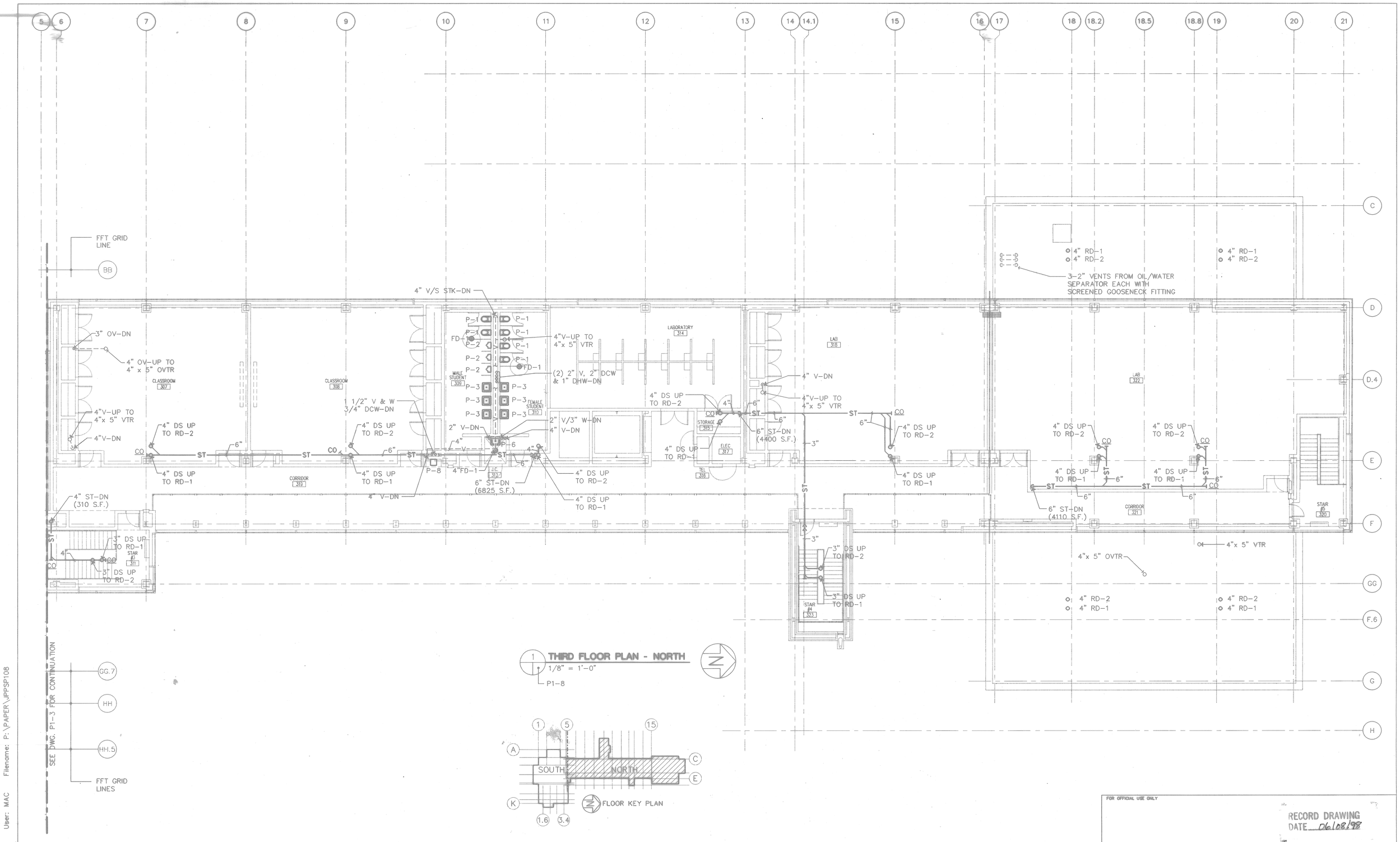

1 THIRD FLOOR PLAN - NORTH
1/8" = 1'-0"
P1-8

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DATE 07-31-97 DWN AS-BUILT, NO CORRECTIONS BY CHK

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SUPV RAUCH CH ENGR
SUBMITTED BY DATE 8-21-97
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EIC SR HD
FPO DIR
APPROVED DATE
OFFICER IN CHARGE
APPROVED DATE
CFD FOR COMMANDER NAVFAC 9/12/98

STATE OF OHIO CHRISTOPHER A. RAUCH E-54721 REGISTERED PROFESSIONAL ENGINEER
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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
THIRD FLOOR PLAN - NORTH

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276599	P1-8
		CONSTR CONTR NO. N62467-93-C-1143	
SCALE 1/8"=1'-0"		SPEC 08-93-1143	SHEET 185 OF

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P: TTL-4HST PS Item=0,0 P: -ACCO02 Nested XREF
P: JPPSP108 PS Item=0,0 P: -SBPG0DN Nested XREF
P: -ACCO02 PS Item=0,0 P: -SBPG0DX Nested XREF
P: -SBPG0DN PS Item=0,0 P: -SBPRFB Nested XREF
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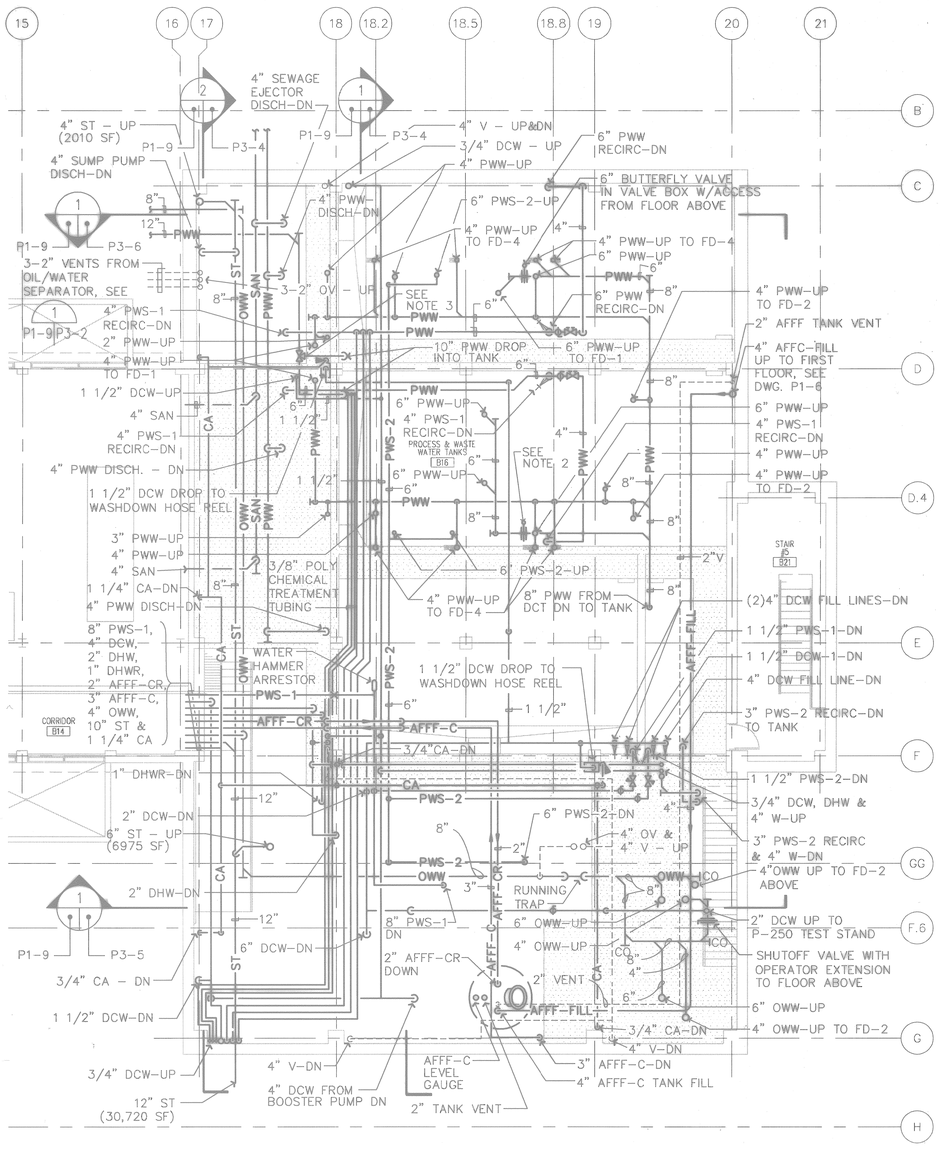
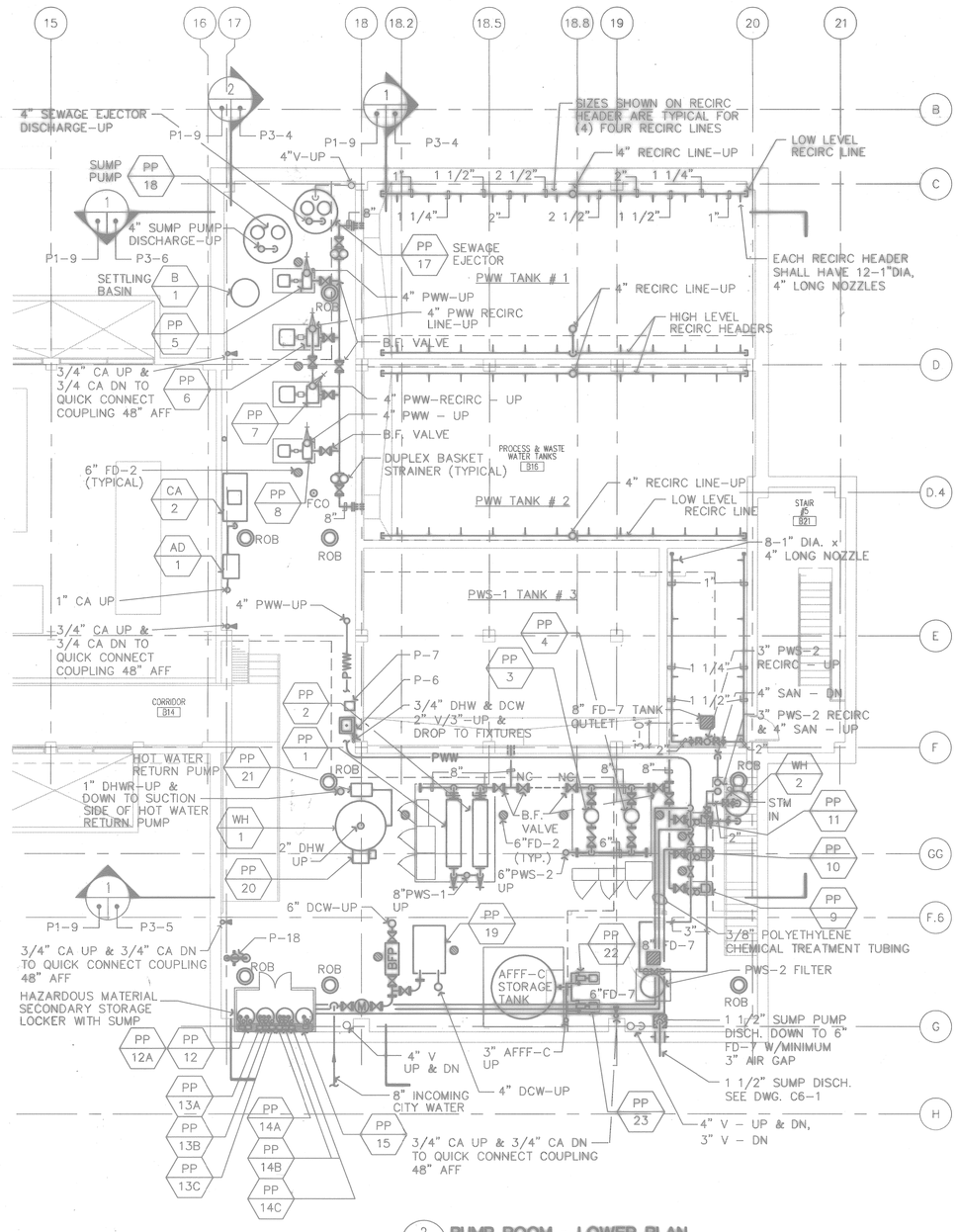


1 **PUMP ROOM - UPPER PLAN**
SCALE: 1/8"=1'-0"
P1-9



2 **PUMP ROOM - LOWER PLAN**
SCALE: 1/8"=1'-0"
P1-9

GENERAL NOTES:

1. REFER TO PROCESS WATER SYSTEMS FLOW DIAGRAM ON DWG. P2-3 FOR SYSTEM SCHEMATIC AND SEQUENCE OF OOPERATION AND TO SPECIFICATION SECTION 15450 PROCESS WATER SYSTEMS FOR EQUIPMENT DESCRIPTIONS.
2. PWW(DCT) SHUTOFF VALVES FOR THE DCT PWS-2 COLLECTION SYSTEM SHALL HAVE OPERATOR EXTENSIONS UP THRU FIRST FLOOR TO DCT TRAINING AREA. PROVIDE TEE HANDLE OPERATORS.
3. PWW(FFT) DIVERTER VALVE SHALL BE A THREEWAY TWO POSITION PLUG VALVE WITH OPERATOR HANDWHEEL EXTENDED ABOVE MAINTENANCE WALKWAY.

A AFFECTS ENTIRE SHEET

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

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CHARLESTON, S.C.

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EIC GR HD
FPE DIR
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APPROVED DATE
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NAVAL TRAINING CENTER — GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL
PUMP ROOM - UPPER AND LOWER PLANS - NORTH

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276600	P1-9
		CONSTR CONTR NO. N62467-93-C-1143	
SCALE 1/4"=1'-0"		SPEC 06-93-1143	SHEET 186 C

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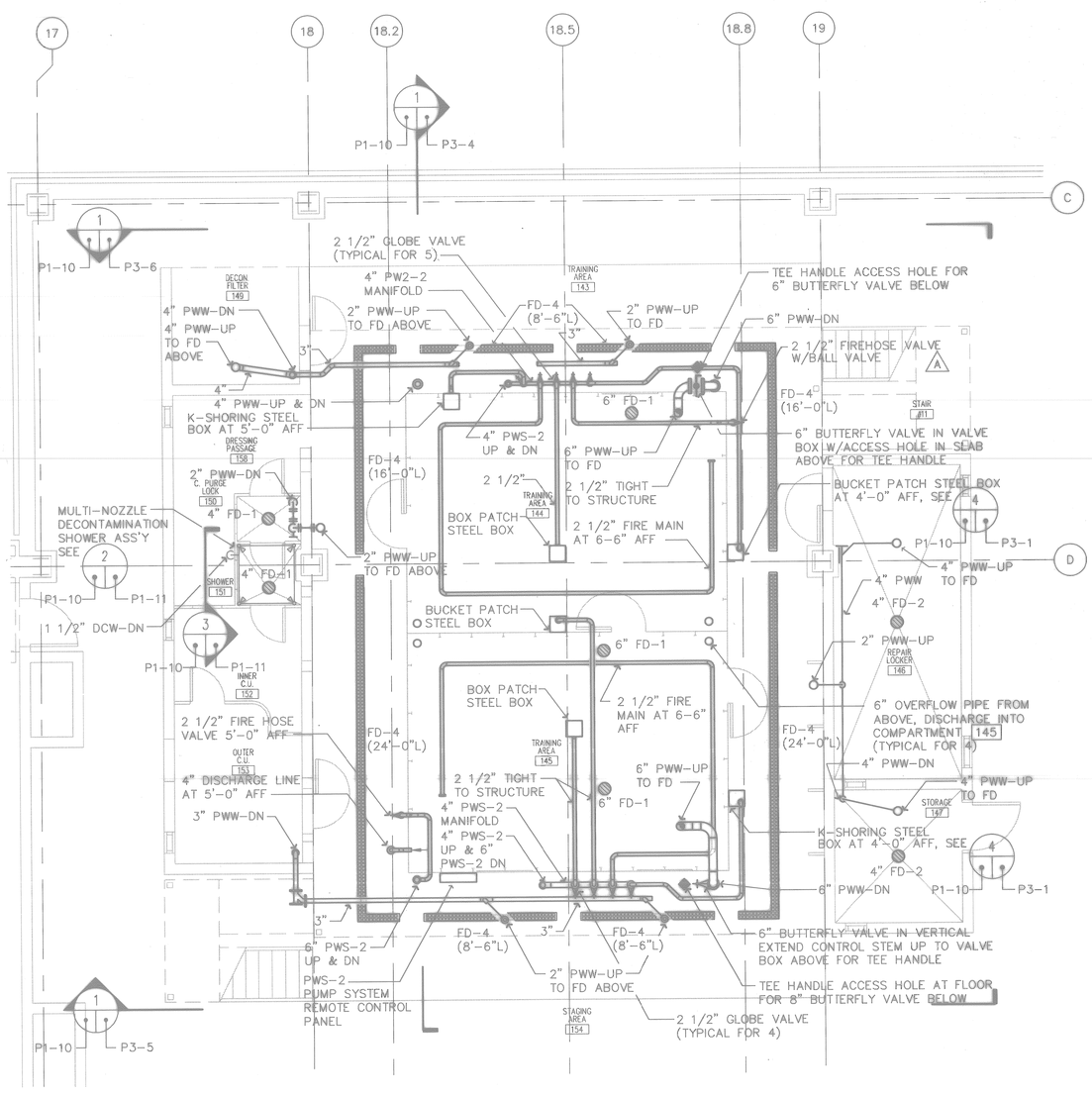
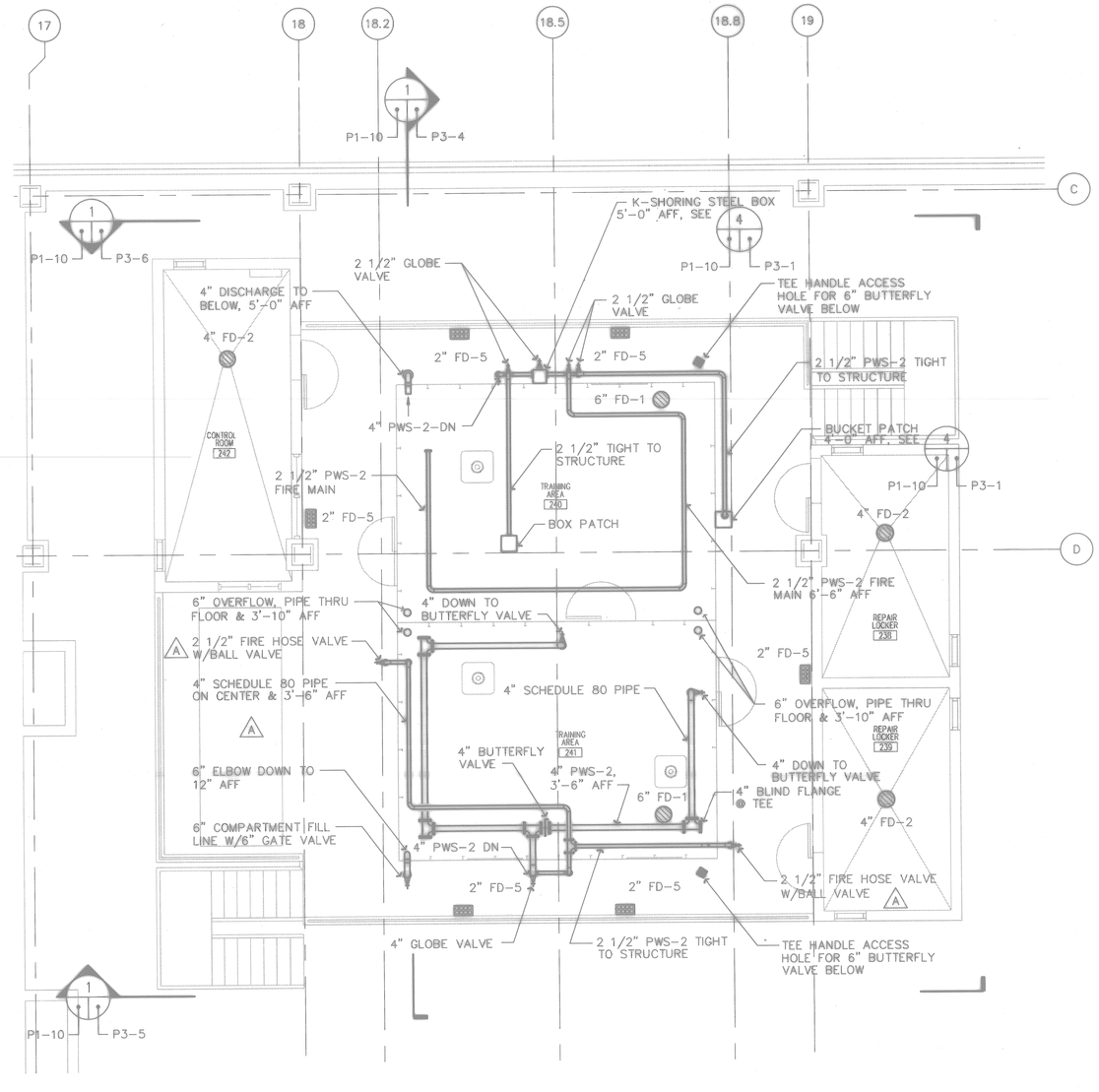
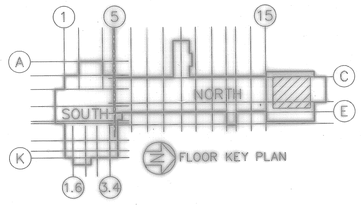
Date&time: 10/30/97 11:11:50





1 **FIRST FLOOR PARTIAL PLAN - NORTH**
SCALE: 1/4"=1'-0"
P1-10

2 **SECOND FLOOR PARTIAL PLAN - NORTH**
SCALE: 1/4"=1'-0"
P1-10



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

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EFD FOR COMMANDER, NAVFAC

DAMAGE CONTROL SCHOOL
FIRST AND SECOND FLOOR PLAN
DAMAGE CONTROL TRAINER - NORTH

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276601	P1-10
		CONSTR CONTR NO. N62467-93-C-1143	
SCALE 1/4"=1'-0"		SPEC 08-93-1143	SHEET 187 OF

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