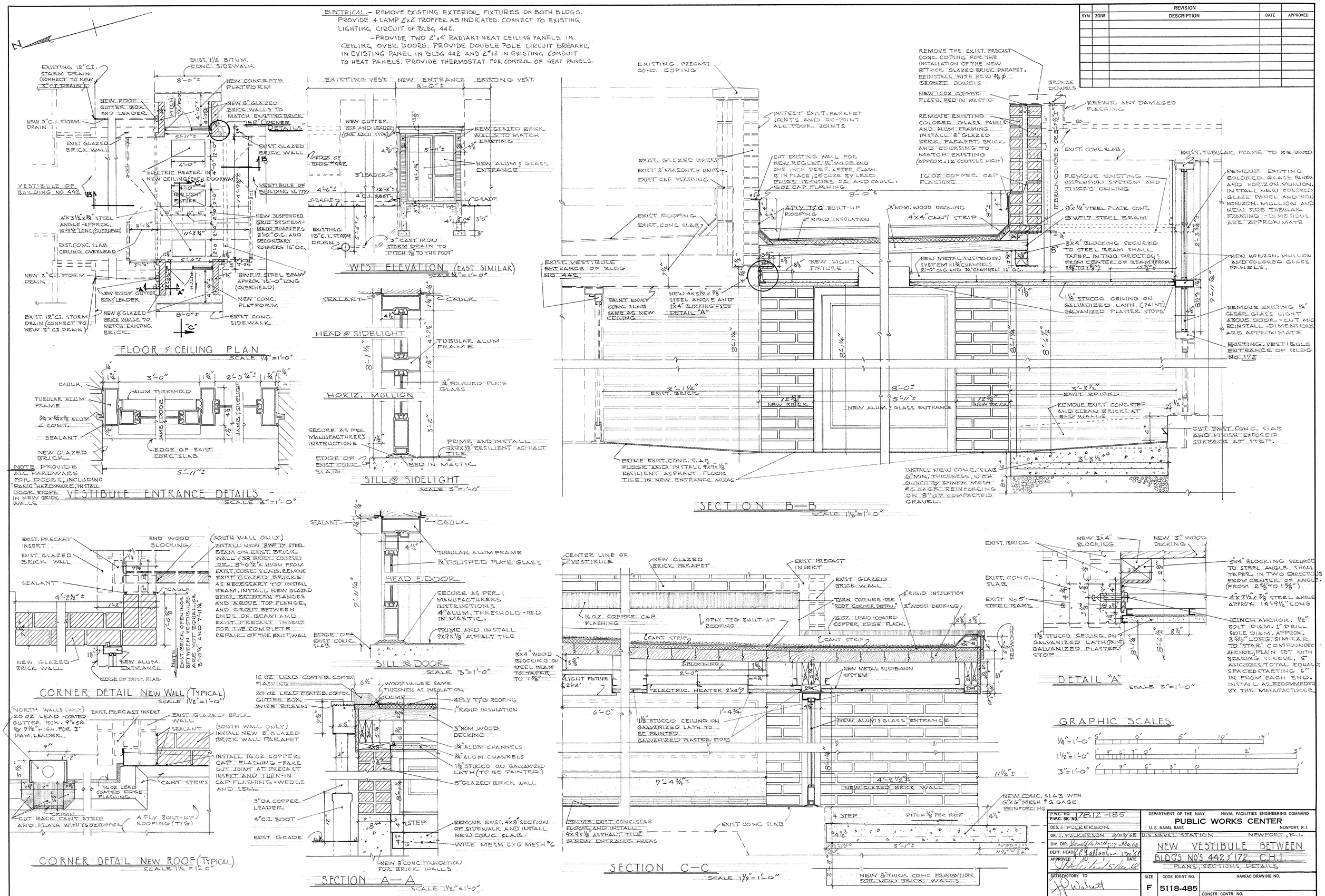
ELECTRICAL.- REMOVE EXISTING EXTERIOR FIXTURES ON BOTH BLDGS. PROVIDE 4 LAMP 2'x2' TROFFER AS INDICATED. CONNECT TO EXISTING LIGHTING CIRCUIT OF BLDG 442.

-PROVIDE TWO 2'x4' RADIANT HEAT CEILING PANELS IN CEILING OVER DOORS. PROVIDE DOUBLE POLE CIRCUIT BREAKER IN EXISTING PANEL IN BLDG 442 AND 2"12 IN EXISTING CONDUIT TO HEAT PANELS. PROVIDE THERMOSTAT FOR CONTROL OF HEAT PANELS.

SYM	ZONE	REVISION DESCRIPTION	DATE	APPROVED



P.W.C. NO. / P.W.C. SK. NO.	17812-185
DES. J. FULKERSON	
DR. J. FULKERSON	11/29/68
DIV. DIR.	
DEPT. HEAD	
APPROVED / DATE	
SATISFACTORY TO	
DATE	5 DEC 1968

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS CENTER
U. S. NAVAL BASE — NEWPORT, R. I.
U.S. NAVAL STATION — NEWPORT, R.I.

NEW VESTIBULE BETWEEN BLDG'S NO'S 442 & 172, C.H.T.

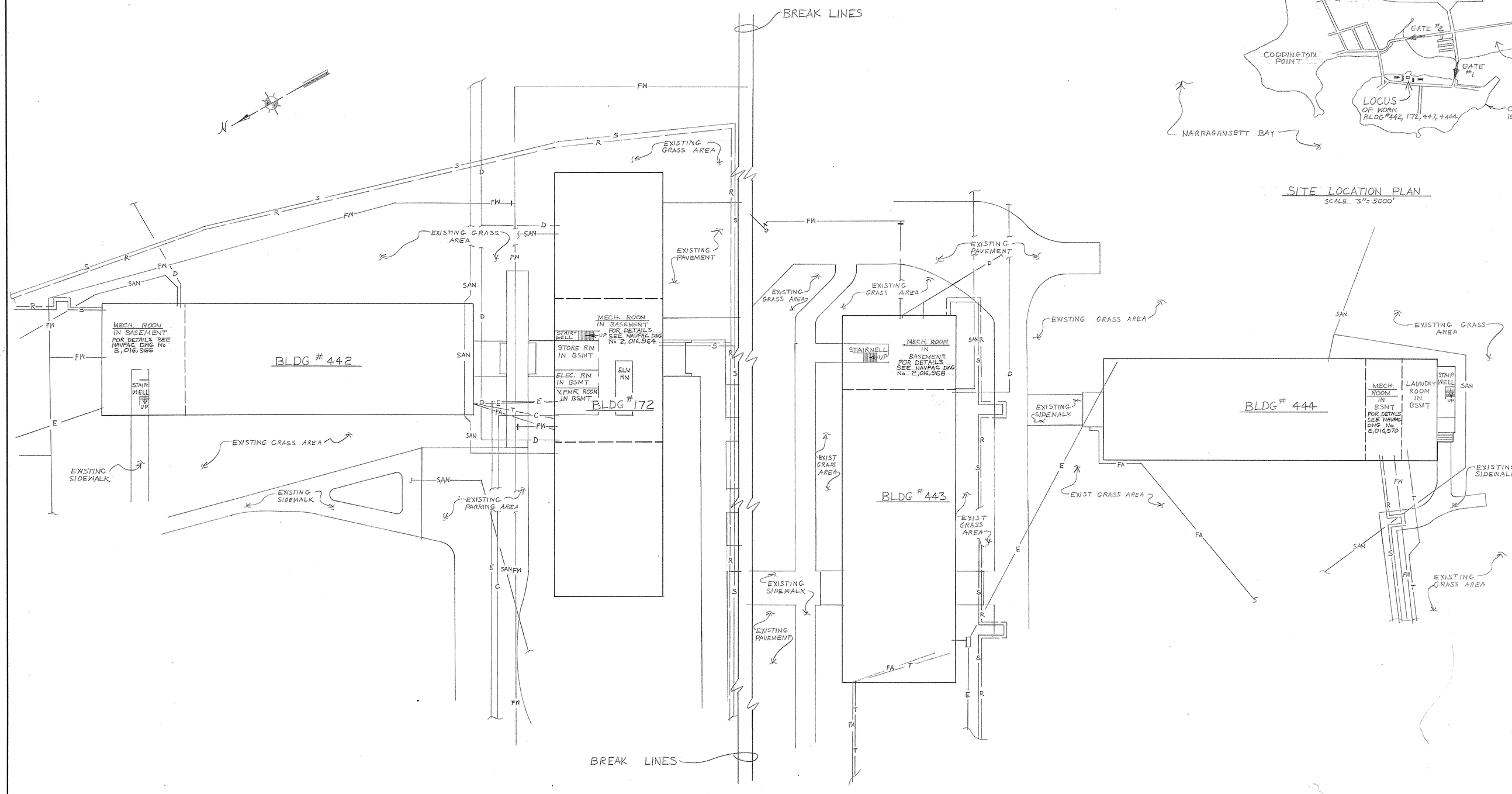
PLANS, SECTIONS, DETAILS

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.
F	5118-485	
SCALE: AS SHOWN	SPEC.	CONSTR. CONTR. NO. / SHEET 1 OF 1

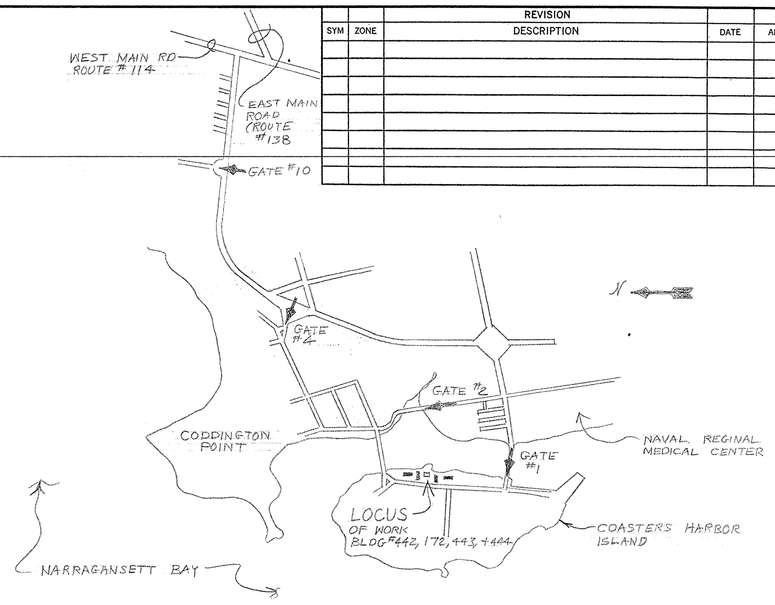
SYM	ZONE	REVISION DESCRIPTION	DATE	APPROVED

LEGEND (SITE PLAN)

- C — COMMUNICATIONS
- D — STORM DRAINAGE
- FA — FIRE ALARM
- FW — FRESH WATER
- R — CONDENSATE RETURN
- SAN — SANITARY SEWER
- S — STEAM
- T — TELEPHONE



PLOT PLAN
SCALE 1" = 20'-0"



SITE LOCATION PLAN
SCALE 3" = 5000'

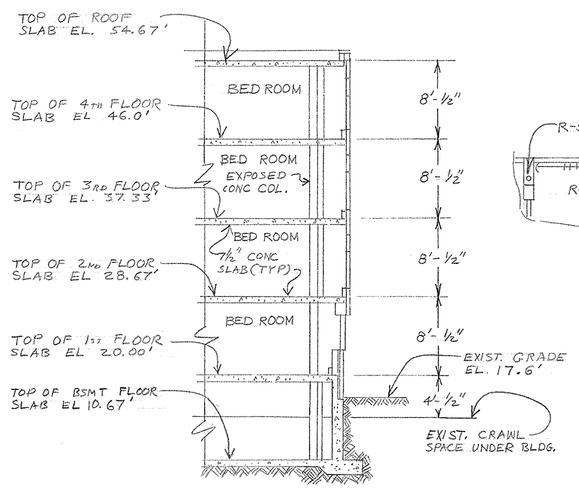
GRAPHIC SCALES

1" = 20'-0" 20 10 0 20 40 60 80

NETC DWG. NO. 19662-203	DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
DES. HS/MD	NAVAL EDUCATION AND TRAINING CENTER NEWPORT, RHODE ISLAND
DR. M.J.D. 19 MAY 75	BUILDING Nos 172, 442, 443, AND 444 COASTERS HARBOR ISLAND
DIV. DIR.	ALTERATION AND REPAIR OF HEATING AND TEMPERATURE CONTROL SYSTEMS
DEPT. HEAD 05 Feb 1975	SITE AND LOCATION PLAN
APPROVED DATE	SIZE F · CODE IDENT NO. 80091 · NAVFAC DRAWING NO. 2,016,962
SATISFACTORY TO	CONSTR. CONTR. NO. N62472-75-C-1794
DATE	SCALE: AS SHOWN · SPEC. 04-75-1794 · SHEET 1 OF 9

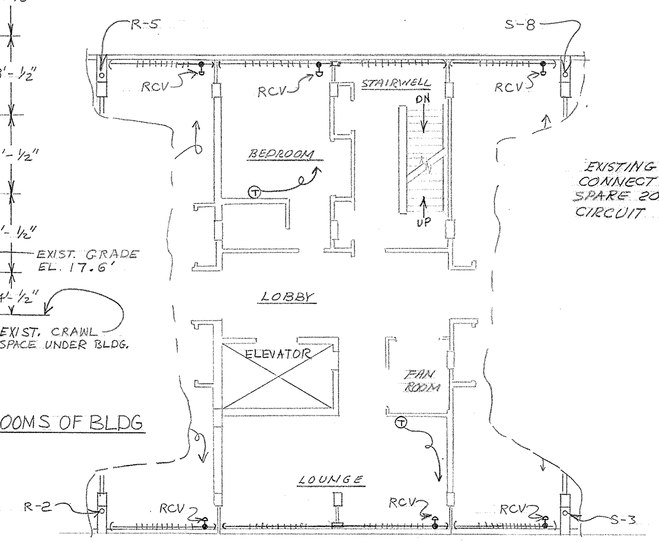
B.L.M. P-408

SYM	ZONE	REVISION DESCRIPTION	DATE	APPROVED

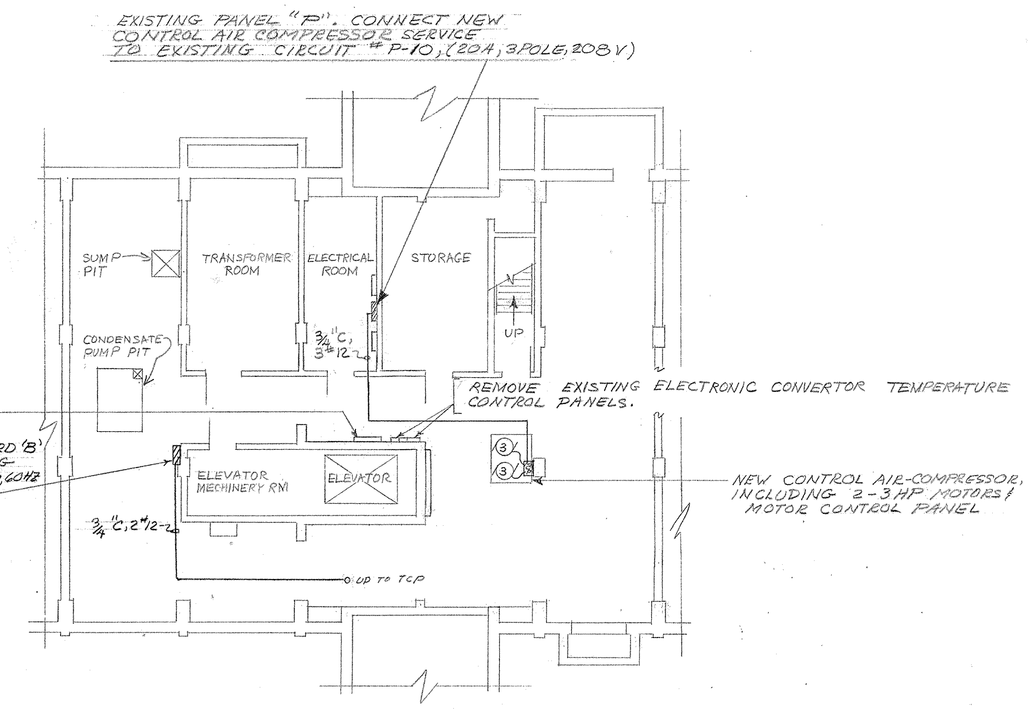


TYPICAL SECTION THRU BEDROOMS OF BLDG

SCALE 1/8"=1'-0"

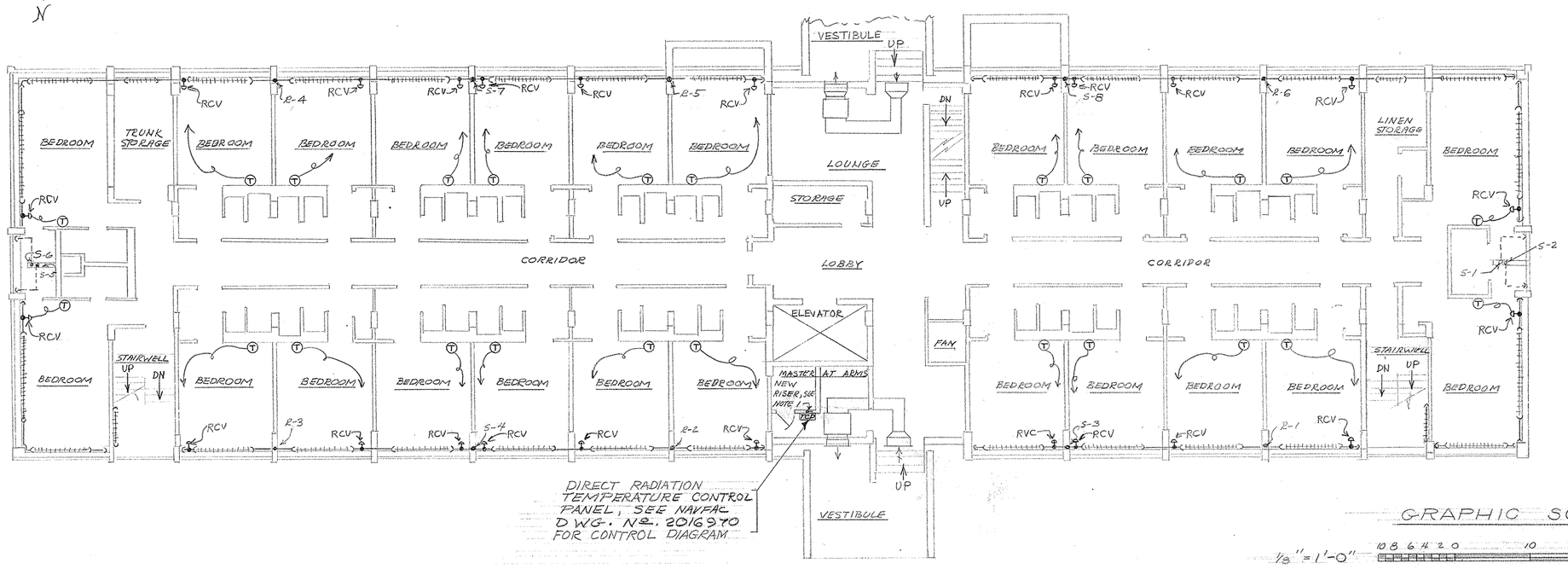


2ND, 3RD & 4TH FLOOR - BLDG No 172
DIFFERENT FROM 1ST. AS SHOWN



MECHANICAL ROOM ELECTRIC PLAN - BLDG No 172

SCALE 1/8"=1'-0"



FIRST FLOOR PLAN - BLDG No 172

SCALE 1/8"=1'-0"

GRAPHIC SCALES

1/8"=1'-0" 10 8 6 4 2 0 10 20 30

NOTES

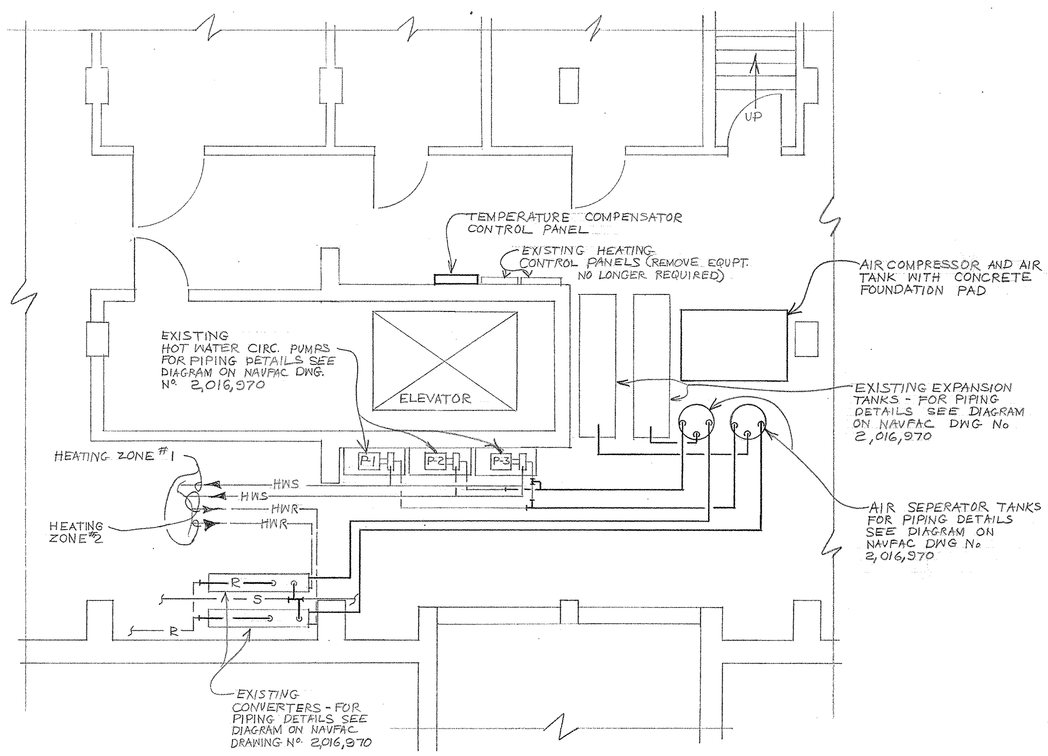
1. PENETRATE FIRST FLOOR DECK FOR NEW ELECTRICAL BRANCH CIRCUIT RISER & TO INSTALL PNEUMATIC CONTROL TUBING.

2. FOR LEGEND, ABBREVIATIONS, ANG GENERAL NOTES SEE NAVFAC DRAWING #2,016,968 SHEET 7 OF 9

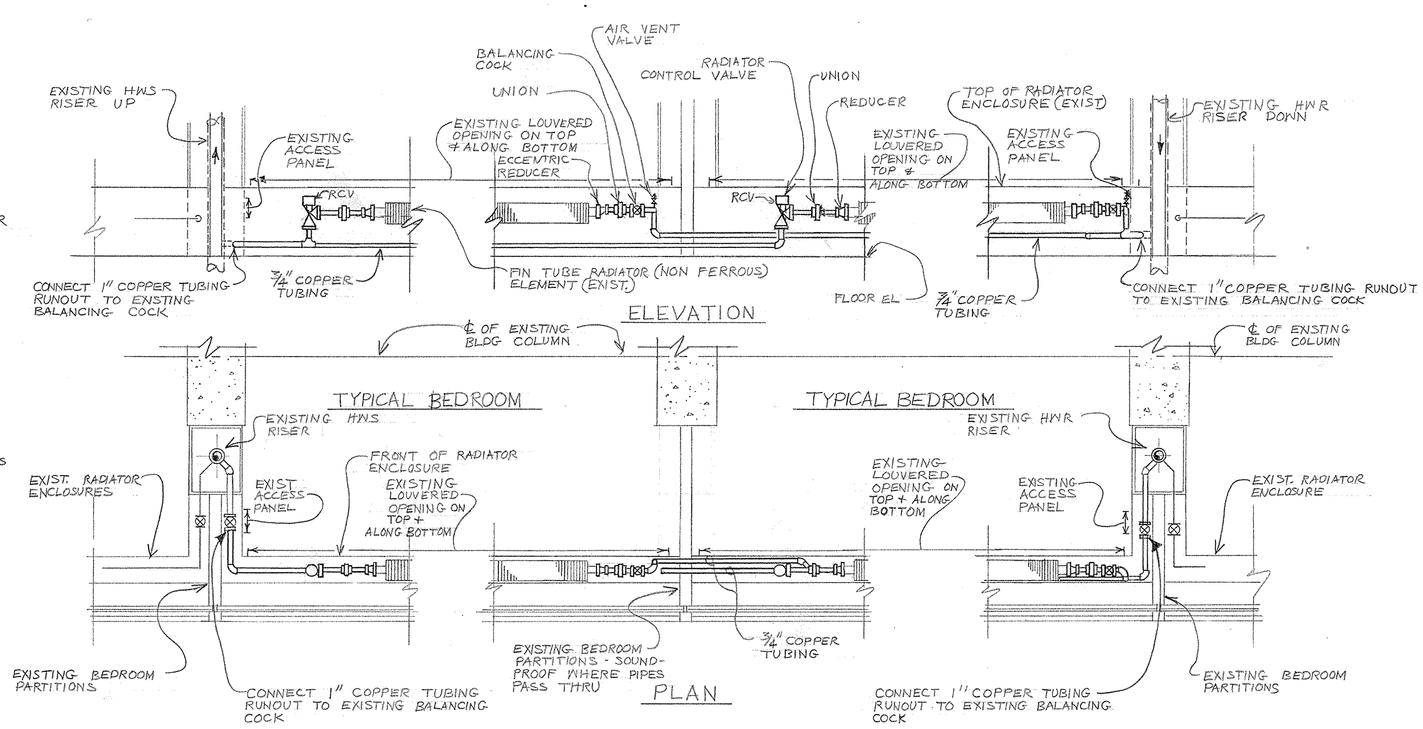
NETC DWG. NO. 19663-203	DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
DES. HS/MD	NAVAL EDUCATION AND TRAINING CENTER NEWPORT, RHODE ISLAND
DR. MJD/HT 19 MAY 75	BUILDING Nos 172, 442, 443, AND 444 COASTERS HARBOR ISLAND
DIV. DIR.	ALTERATIONS AND REPAIR OF HEATING AND TEMPERATURE CONTROL SYSTEMS
DEPT. HEAD	BLDG. No 172 FLOOR PLANS - MECHANICAL & ELECTRICAL
APPROVED DATE	
SATISFACTORY TO	SIZE F; CODE IDENT NO. 80091; NAVFAC DRAWING NO. 2,016,963
DATE	CONSTR. CONTR. NO. N62472-75-C-1794
	SCALE: AS SHOWN; SPEC. 04-75-1794; SHEET 2 OF 9

B.L.M. P-408

SYM	ZONE	REVISION DESCRIPTION	DATE	APPROVED



MECHANICAL ROOM PIPING PLAN - BLDG No 172
SCALE 1/4"=1'-0"



TYPICAL DETAIL OF RADIATOR, PIPING, AND ENCLOSURE - BUILDING No. 172
SCALE 1"=1'-0" (SEE GENERAL NOTE No 2)

NOTE: FOR ELECTRICAL WIRING SEE NAVFAC DRAWING No. 2,016,963

NOTE

1. FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES SEE NAVFAC DRAWING # 2,016,968 SHEET 7 OF 9

GRAPHIC SCALES

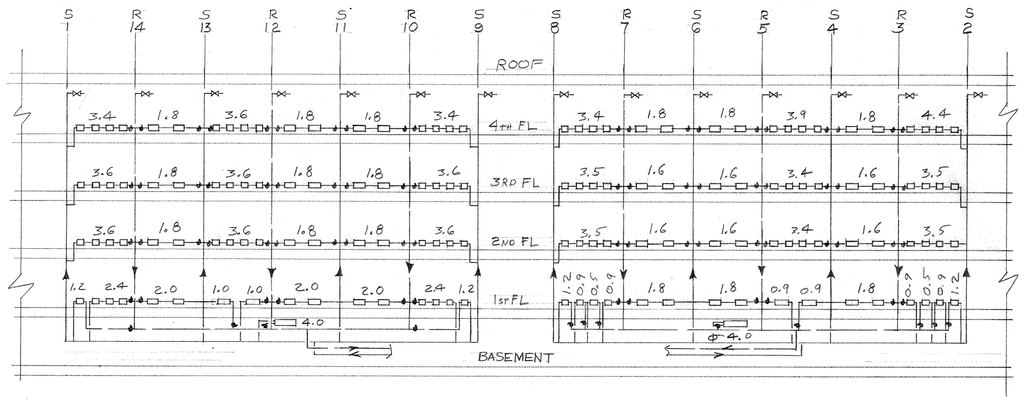
1"=1'-0" 1 0 1 2 3 4 5

1/4"=1'-0" 5 4 3 2 1 0 5 10 15

NETC DWG. NO. 19664-203	DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
DES. HS/MD	NAVAL EDUCATION AND TRAINING CENTER NEWPORT, RHODE ISLAND
DR. MJD 19 MAY 75	BUILDING No'S 172, 442, 443, AND 444 COASTERS HARBOR ISLAND
DIV. DIR. [signature]	ALTERATION AND REPAIR OF HEATING AND TEMPERATURE CONTROL SYSTEM BUILDING 172 MECHANICAL DETAILS
DEPT. HEAD [signature] 05/22/76	
APPROVED DATE	
SATISFACTORY TO	SIZE F — CODE IDENT NO. 80091 — NAVFAC DRAWING NO. 2,016,964
	CONSTR. CONTR. NO. N62472-75-C-1794
DATE	SCALE: AS SHOWN — SPEC. 04-75-1794 — SHEET 3 OF 9

B.L.M. P-408

SYM	ZONE	REVISION DESCRIPTION	DATE	APPROVED



HEATING RISER DIAGRAM, BLDG N° 172 CHI
NO SCALE

BLDG #172 CHI — HEATING WATER SUPPLY 210°F, RETURN 190°F

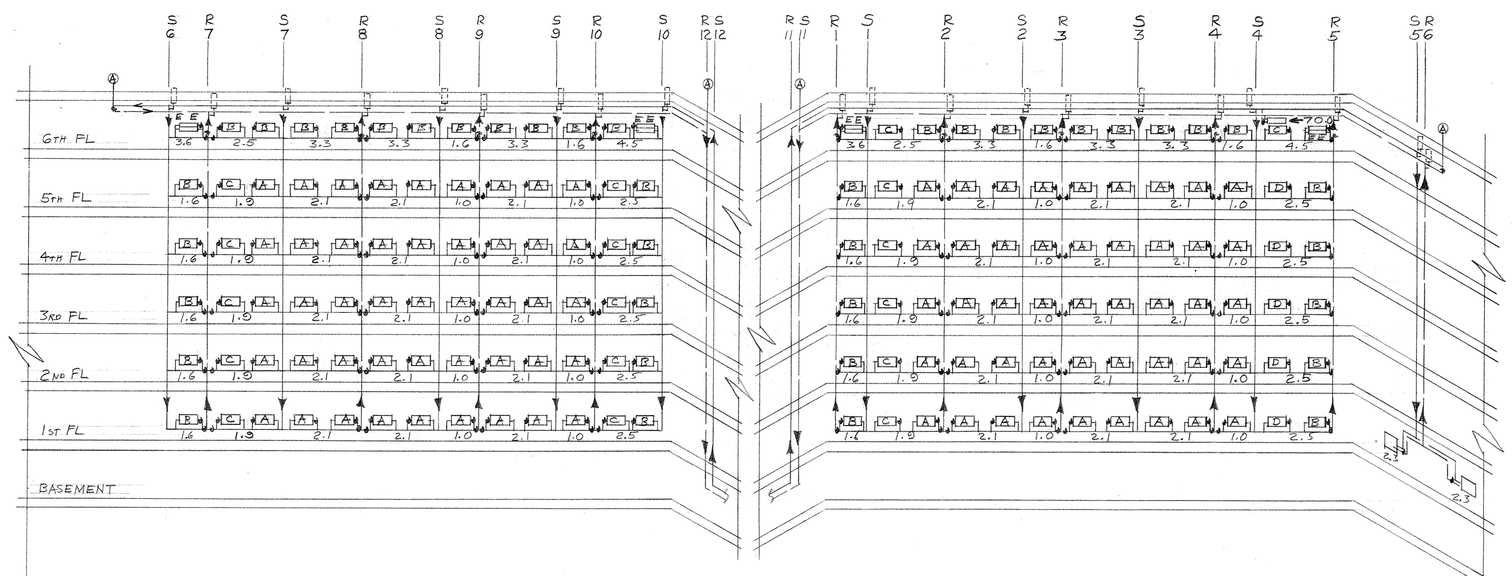
RISER NO.		THERMOMETER WELL	BALANCING COCK	FLOW (GPM)
1	S	NO	NO	
2	S	NO	NO	
3	R	NO	NO	19.1
4	S	NO	NO	
5	R	NO	NO	18.4
6	S	NO	NO	
7	R	NO	NO	18.1
8	S	NO	NO	
9	S	NO	NO	
10	R	NO	NO	20.4
11	S	NO	NO	
12	R	NO	NO	19.2
13	S	NO	NO	
14	R	NO	NO	20.4

BLDG #444 CHI — HEATING WATER SUPPLY 200°F, RETURN 180°F

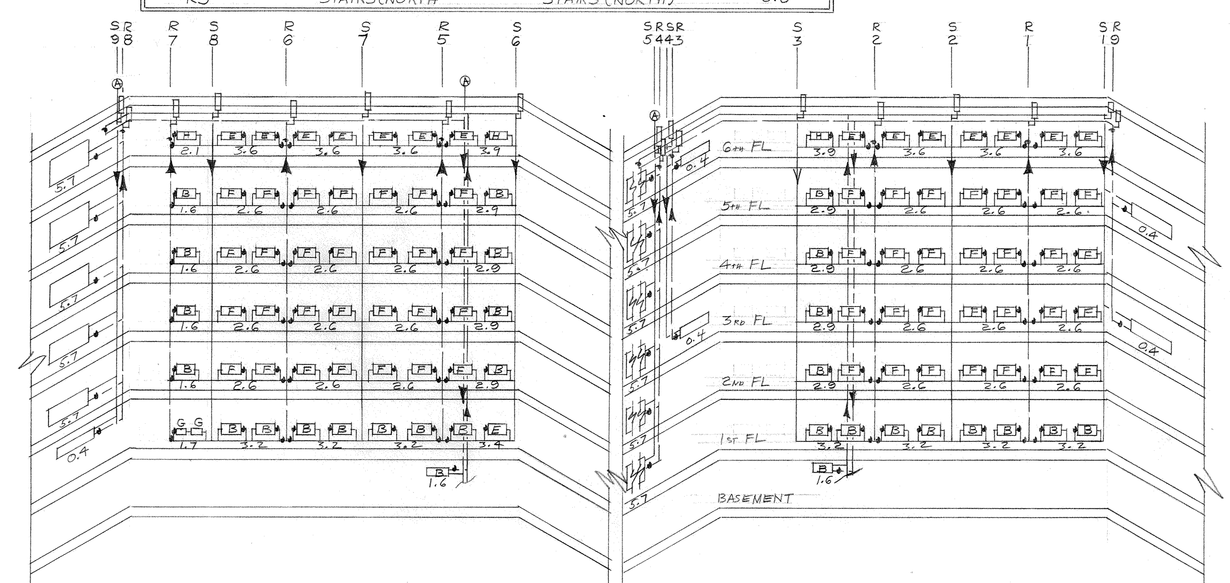
RISER No	THERMOMETER + WELL LOCATION	BALANCING COCK LOCATION	FLOW (GPM)
S1	602 (WELL ONLY)	NONE	
R1	604	604	34.4
S2	608	NONE	
R2	612	612	35.9
S3	616	NONE	
R3	STAIRS (SOUTH)	STAIRS (SOUTH)	0.8
S4	STAIRS (SOUTH)	NONE	
R4	STAIRS (SOUTH)	STAIRS (SOUTH)	34.2
S5	STAIRS (SOUTH)	NONE	
R5	613	613	36.2
S6	617	NONE	
R6	605	605	34.4
S7	609	NONE	
R7	601	601	10.2
S8	601	NONE	
R8	601 (BATH)	601 (BATH)	28.9
S9	601 (BATH)	NONE	
R9	STAIRS (NORTH	STAIRS (NORTH)	0.8

LEGEND:

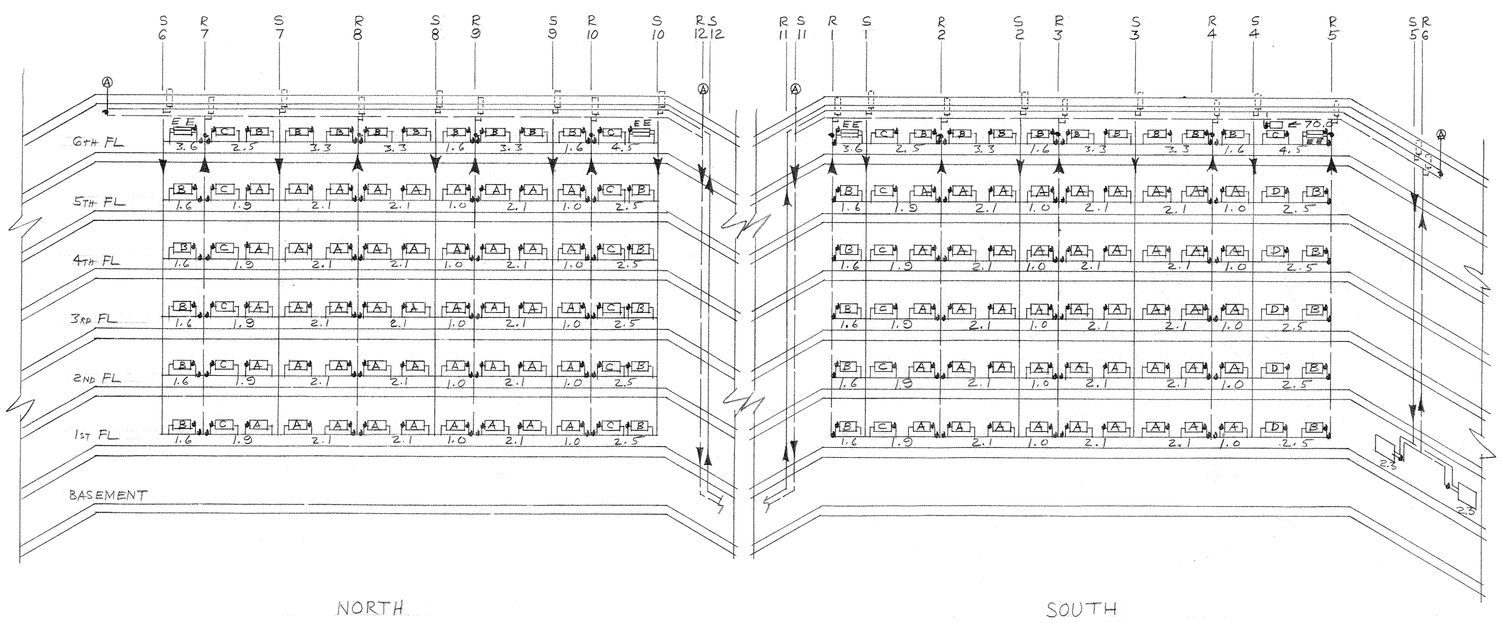
- HWS
- HWR
- BALANCING COCK
- THERMOMETER & WELL
- THERMOMETER WELL ONLY
- HEATING ELEMENT FLOW THRU BRANCH CIRCUIT IN G.P.M.
- S — SUPPLY RISER
- R — RETURN RISER
- MANUAL AIR VENT
- DIRECTION OF FLOW
- (A) AUTOMATIC AIR VENT



HEATING RISER DIAGRAM, BLDG N° 442 CHI
NO SCALE



HEATING RISER DIAGRAM, BLDG N° 444 CHI
NO SCALE



HEATING RISER DIAGRAM, BLDG N° 443
NO SCALE

BLDG No 442 CHI — HEATING WATER SUPPLY 200°F, RETURN 180°F

RISER No	THERMOMETER WELL LOCATION	BALANCING COCK LOCATION	FLOW (GPM)
S1	LINEN RM	NONE	
R1	NONE	G10	11.6
S2	G11	NONE	
R2	G15	G17	25.8
S3	G05	NONE	
R3	G09	G11	20.4
S4	UTILITY RM (6TH FLR)	NONE	
R4	G03	G03	20.4
S5	G02 (BATH)	G02 (BATH)	
R5	G01	G01	17.0
S6	G02	G02	
R6	G02 (BATH)	G02 (BATH)	4.6
S7	G04	NONE	
R7	G02	G02	23.6
S8	G10	NONE	
R8	G08	G08	27.6
S9	G18	NONE	
R9	G14	G14	20.4
S10	NONE	NONE	
R10	G20	G20	23.6
S11	NONE	NONE	
R11	NONE	NONE	169.8
S12	NONE	NONE	
R12	NONE	NONE	35.2

BLDG No 443 CHI — HEATING WATER SUPPLY 200°F, RETURN 180°F

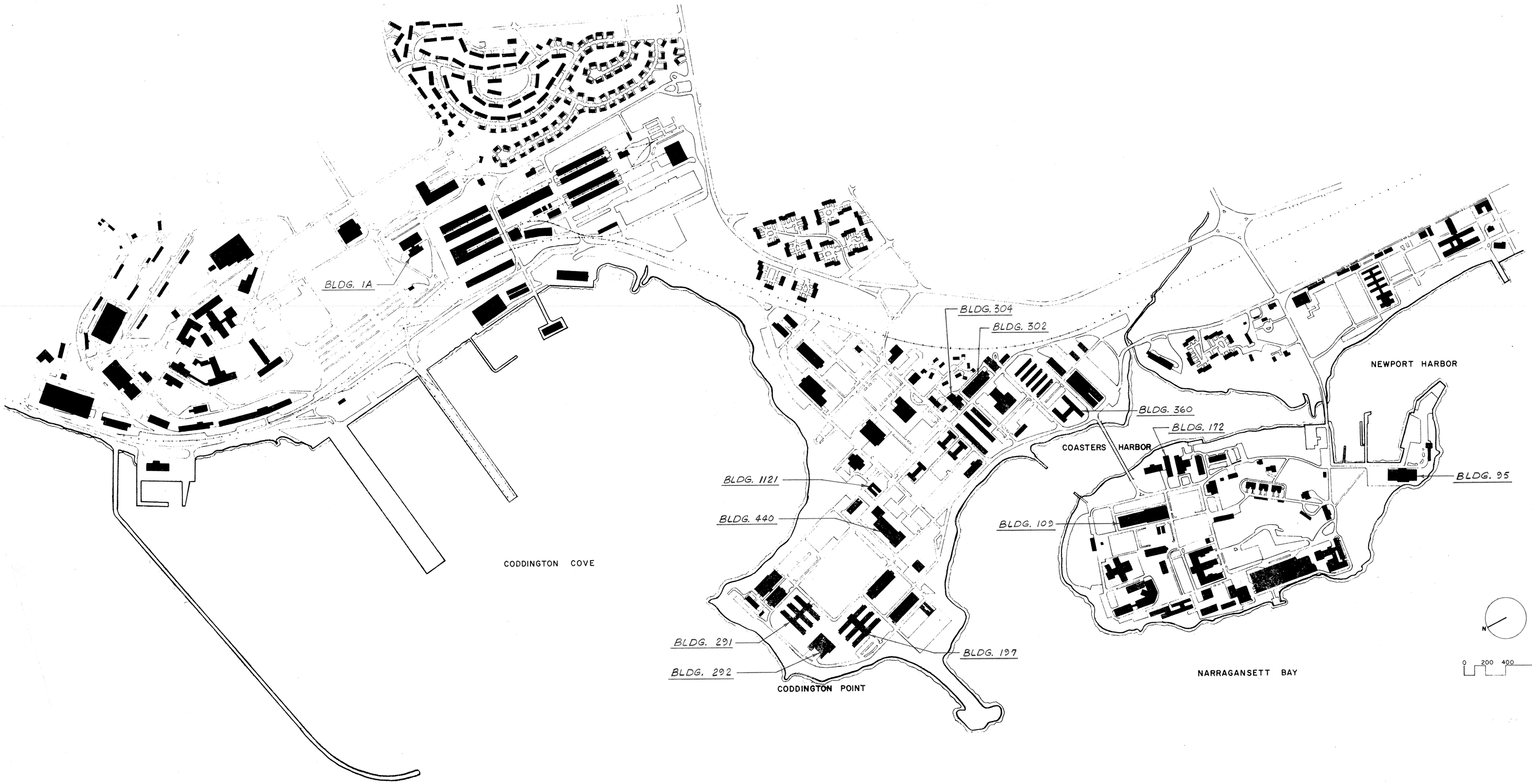
RISER No	THERMOMETER WELL LOCATION	BALANCING COCK LOCATION	FLOW GPM
S1	LINEN RM	NONE	
R1	NONE	G10	11.6
S2	G13	NONE	
R2	G17	G17	25.8
S3	G07	NONE	
R3	G09	G11	20.4
S4	UTILITY RM (6TH FLR)	NONE	
R4	G03	G03	20.4
S5	G02 (BATH)	G02 (BATH)	
R5	NONE	G01	17.0
S6	G02	G02	
R6	G02 (BATH)	G02 (BATH)	4.6
S7	G04	NONE	
R7	STAIRS (WEST)	STAIRS (WEST)	23.6
S8	G12	NONE	
R8	G08	G10	27.6
S9	G20	NONE	
R9	G14	G16	20.4
S10	NONE	NONE	
R10	NONE	STAIRS (EAST)	23.6
S11	NONE	NONE	
R11	NONE	NONE	169.8
S12	NONE	NONE	
R12	NONE	NONE	35.2

FIN TUBE RADIATION SCHEDULE

ELEMENT	FLOW (GPM)
A	1.0
B	1.6
C	0.9
D	0.6
E	1.8
F	1.3
G	0.8
H	2.1

NETC DWG. NO. 20197-208	DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
DES.	NAVAL EDUCATION AND TRAINING CENTER, NEWPORT, RHODE ISLAND
DR. WJD 23 AUG 1976	COASTERS HARBOR ISLAND — NEWPORT, R.I.
DIV. DIR. 7 SEPT 1976	RISER DIAGRAM - HW HEATING SYSTEMS BOQ'S N° 172, 442, 443, + 444 CHI
DEPT. HEAD	
APPROVED — DATE	
SATISFACTORY TO	SIZE F — CODE IDENT NO. 80091 — NAVFAC DRAWING NO. 2,023,439
DATE	CONSTR. CONTR. NO. N62472-76-C-1820
	SCALE: N/A — SPEC. CA-76-1820 — SHEET 1 OF 1

SYM	ZONE	REVISION DESCRIPTION	DATE	APPROVED



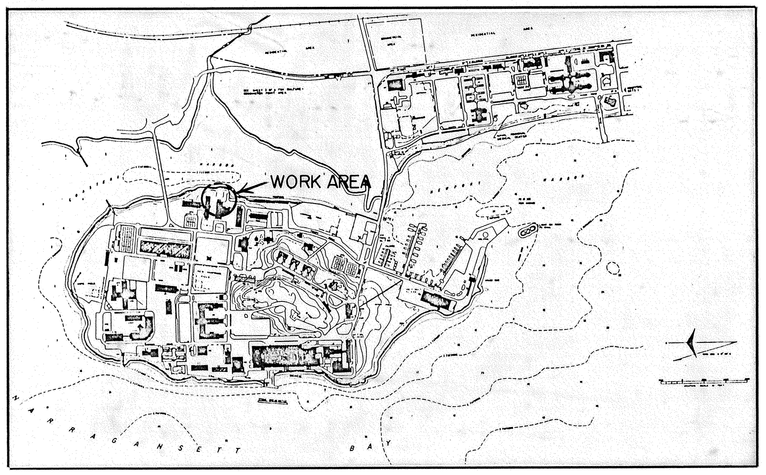
LOCATION PLAN

SCALE: 1" = 400'

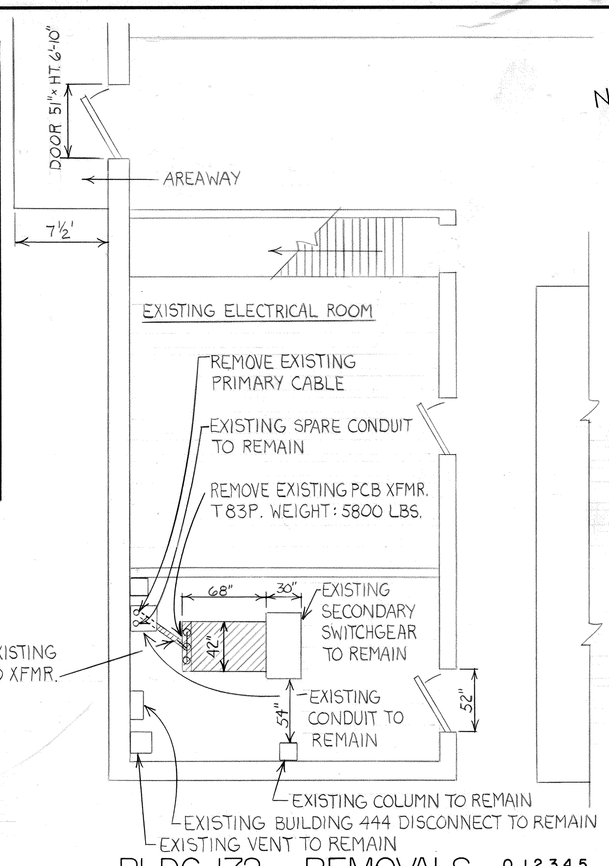
JOHN D. GASKELL
NO. 3156
REGISTERED PROFESSIONAL ENGINEER

NETC DWG. NO. 22322-230 NETC SK. NO.	DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND NAVAL EDUCATION AND TRAINING CENTER NEWPORT, RHODE ISLAND
DSGN GASKELL ASSOCIATES	REPAIRS TO EMERGENCY LIGHTING IN SEVERAL BLDGS. - LOCATION PLAN
DR.	
BR.	
DIR.	
APPROVED CAPT, CEC, USN DATE 6-23-81	
SATISFACTORY TO	SIZE F — CODE IDENT NO. 80091 — NAVFAC DRAWING NO. 2050710
DATE June 24 1981	SCALE: 1" = 400' — CONSTR. CONTR. NO. N62472-81-C-1741 — SPEC. CS-81-1741 — SHEET 1 OF 1

REVISION				
SYM	ZONE	DESCRIPTION	DATE	APPROVED



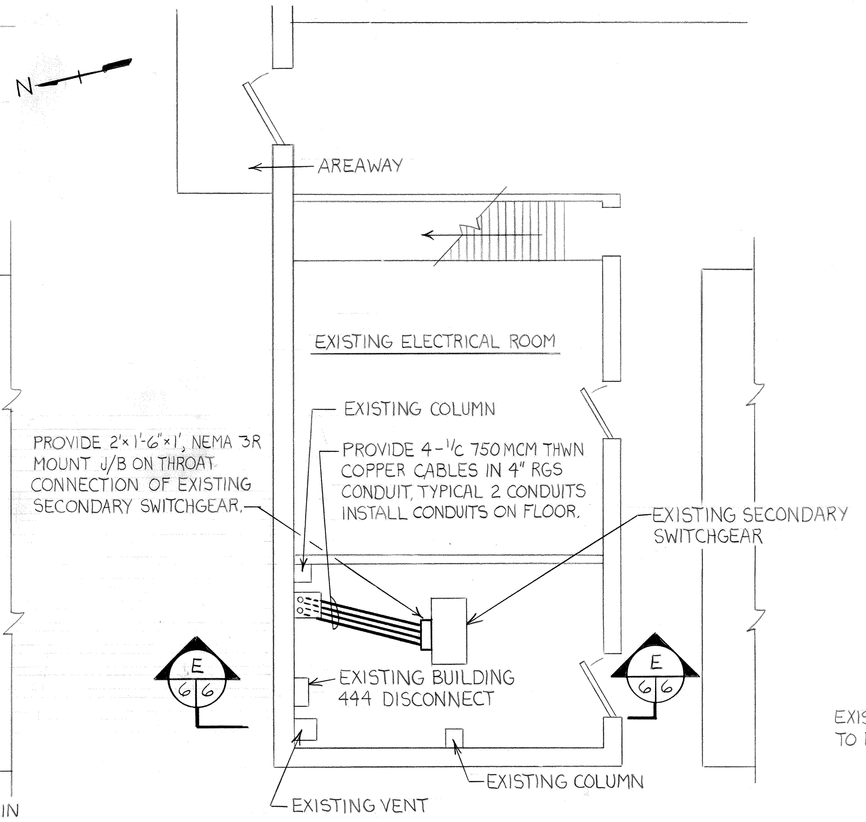
LOCATION MAP



BLDG. 172 — REMOVALS

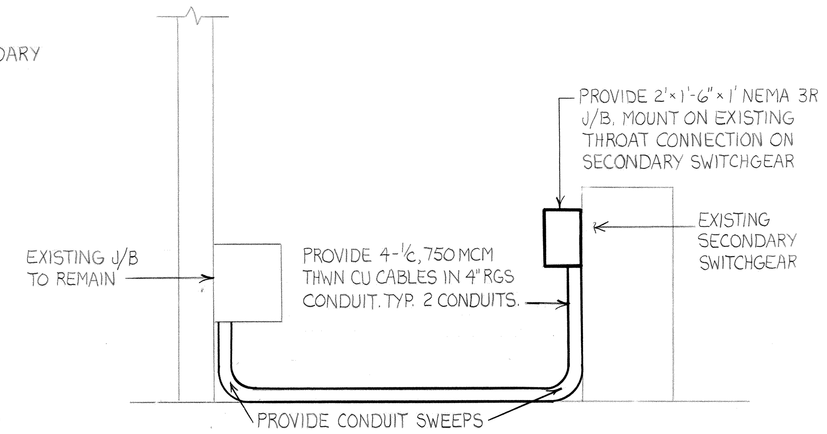
SCALE: 3/16" = 1'-0"

0 1 2 3 4 5 GRAPHIC SCALE IN FEET



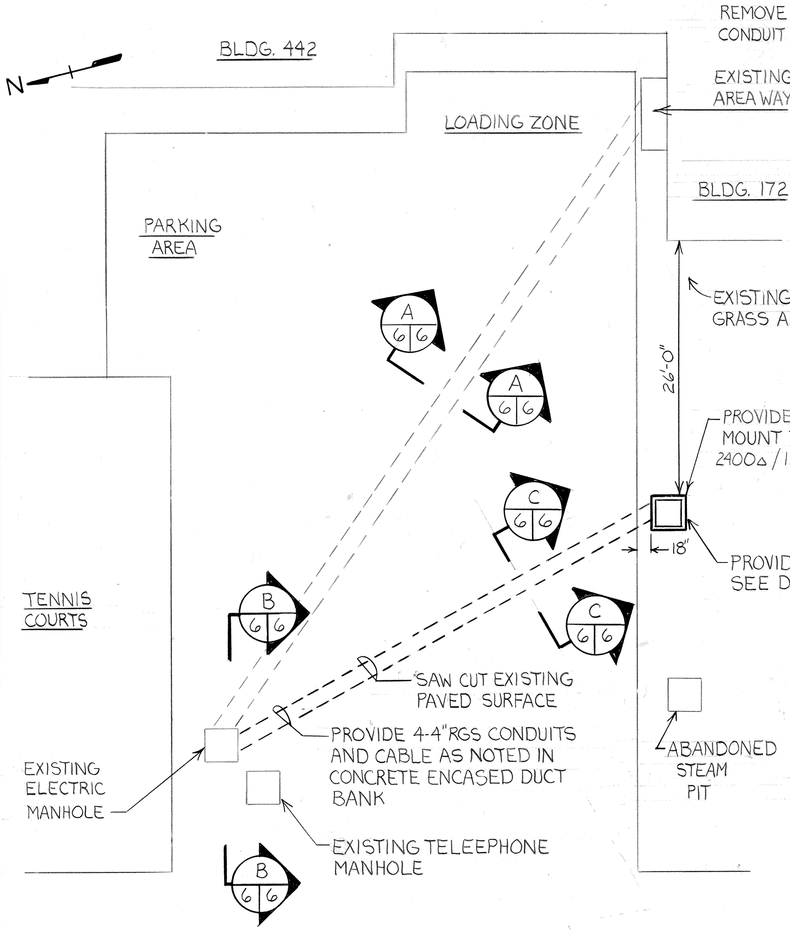
BLDG. 172 — CONDUIT INSTALLATION

SCALE: 3/16" = 1'-0"



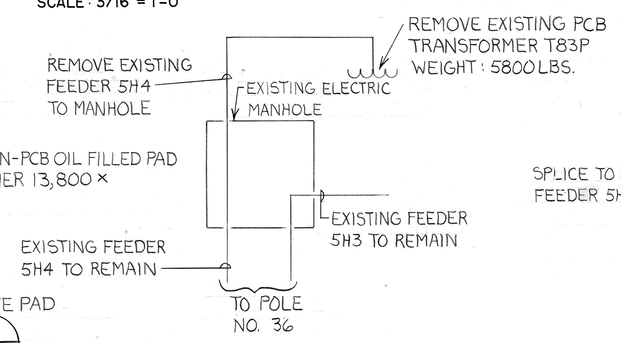
SECTION

NO SCALE



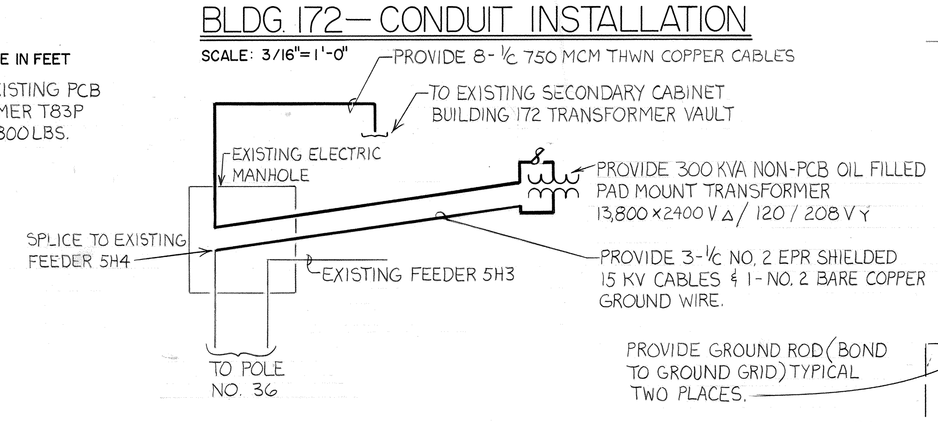
BLDG. 172 — TRANSFORMER LOCATION

NO SCALE

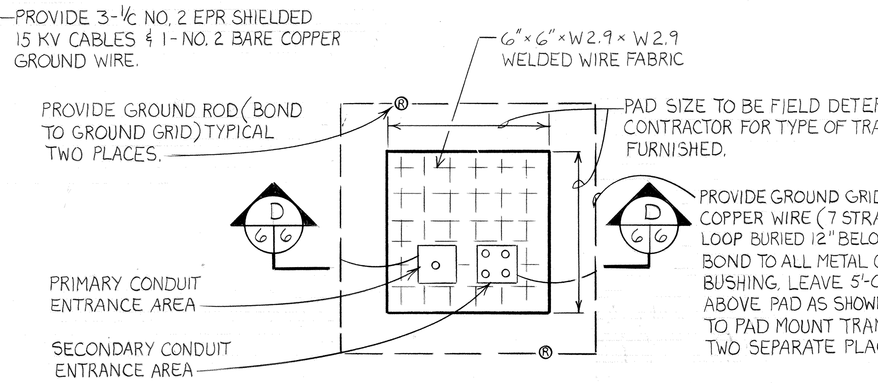


EXISTING SINGLE LINE DIAGRAM

NO SCALE

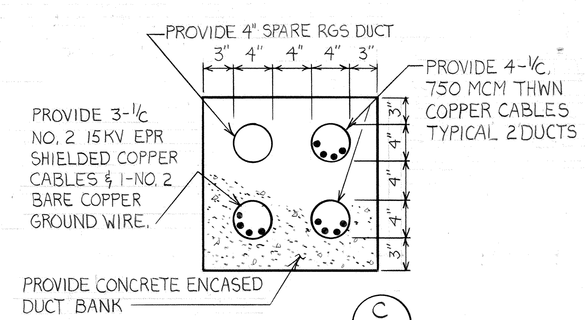


NEW SINGLE LINE DIAGRAM NO SCALE



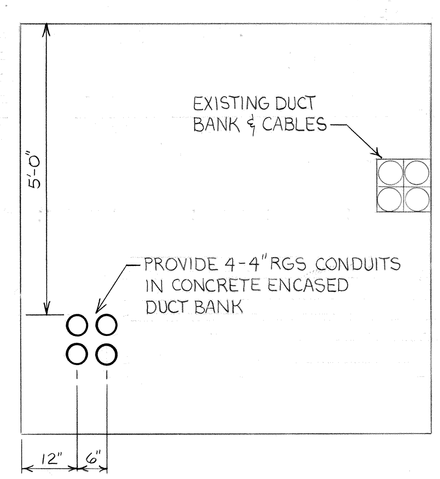
TRANSFORMER PAD PLAN DETAIL 1

NO SCALE



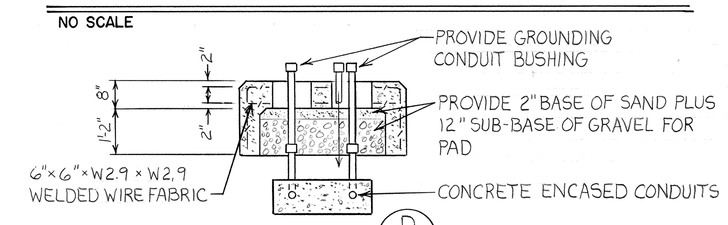
SECTION C

NO SCALE



SECTION B

EXISTING ELECTRIC MANHOLE SOUTH WALL NO SCALE



SECTION A

NO SCALE

SECTION D

NO SCALE

REGISTERED PROFESSIONAL ENGINEER NORMAN P. BARON No. 32519-E

UTILITY ENGINEERS INC.
1460 WYOMING AVENUE
FORTY FORT, PA. 18704

NETC DWG. NO. 25376-251
NETC SK. NO.
DSGN J.J.H.
DR. G.W.C.
BR. J. Brown P.E.
DIR. R.B.C. P.E. 5/22/85
APPRDVDD N.P. Baron 5/23/85 DATE

SATISFACTORY TO
DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND

NAVAL EDUCATION AND TRAINING CENTER
NEWPORT, RHODE ISLAND

REPLACE PCB TRANSFORMERS

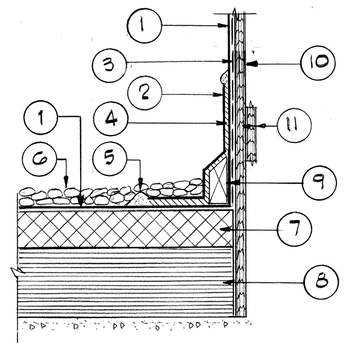
BLDG. 172
COASTERS HARBOR ISLAND

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.
F	80091	2089143
		CONSTR. CONTR. NO. N6242-85-C-1716
SCALE: NOTED		SPEC. 04-85-1716 SHEET 6 OF 17

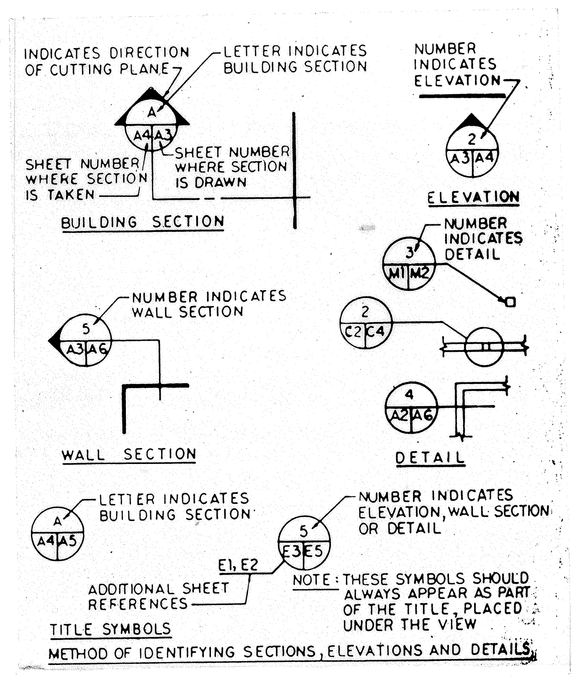
REVISIONS				
LTR	DESCRIPTION	PREP'D BY	DATE	APPROVED
	AS BUILT	D.B.	8/26/85	D.B.

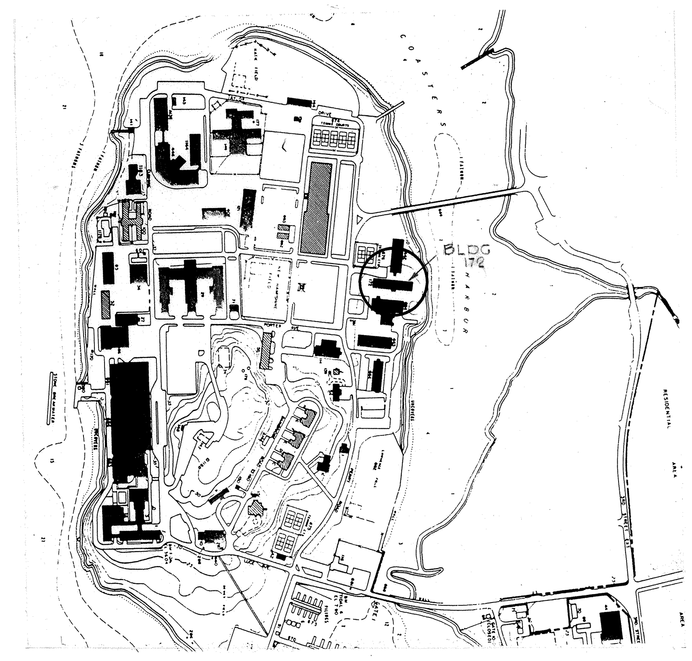
LEGEND

1. E.P.D.M ROOFING MEMBRANE
2. UNCURED FLASHING MEMBRANE
3. BONDING ADHESIVE
4. SPLICING CEMENT
5. LAP SEALANT
6. BALLAST
7. 1.8" THICK (MIN.) ISOCYANURATE INSULATION
8. TAPERED PERLITE INSULATION (MIN. 1/8" PER FT. SLOPE) 1/2" MIN. THICKNESS
9. 2 1/2" × 1" THICK WOOD NAILER WITH FACE CHAMFERED 45° AND FASTEN 12" O.C.
10. 3/4" THICK EXTERIOR GRADE PLYWOOD
11. TWO (2) LAYERS OF 1/2" THICK EXTERIOR GRADE PLYWOOD WITH STAGGERED JOINTS (UNLESS OTHERWISE NOTED)



KEY TO LEGEND





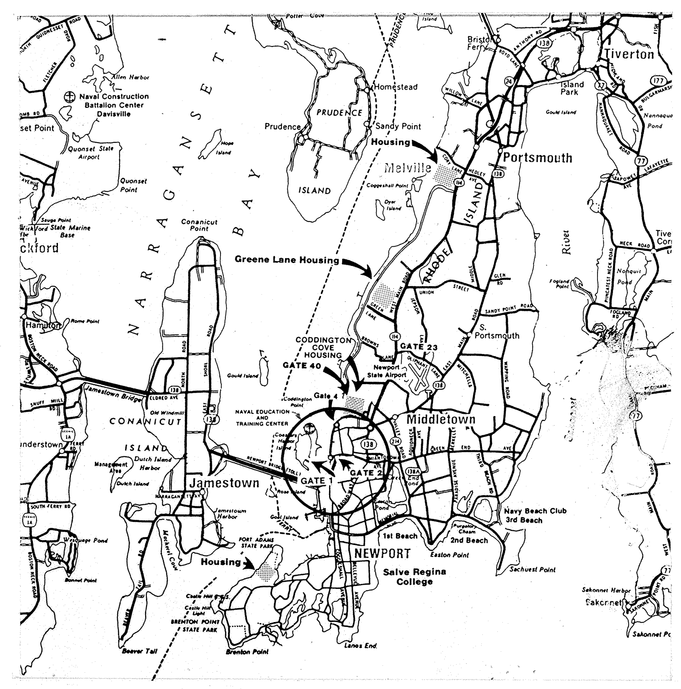
LOCATION MAP

LEGEND OF MATERIALS

- .... RIGID INSULATION
- .... TAPERED INSULATION
- .... METAL
- .... PLYWOOD
- .... BLOCKING
- .... BALLAST
- .... BALLAST PAVER
- .... GYPSUM WALLBOARD
- .... AREAS OF MAIN ROOF FULLY ADHERED MEMBRANE (4" THK. CONCRETE SLABS)

LIST OF ABBREVIATIONS

ALUM..... ALUMINUM
B.U.R..... BUILT-UP ROOFING
CONSTR... CONSTRUCTION
℄ ..... CENTER LINE
DET..... DETAIL
ELEV..... ELEVATION
EPDM.... ETHYLENE PROPYLENE DIENE MONOMER
EXIST..... EXISTING
FIN.FL.... FINISH FLOOR
FLASH'G.. FLASHING
H..... HIGH
HGT..... HEIGHT
INSUL.... INSULATION
MIN..... MINIMUM
MET..... METAL
NO..... NUMBER
O.C..... ON CENTER
PL..... PLAN
R.D..... ROOF DRAIN
R.F..... ROOF FAN
RWC..... RAIN WATER CONDUCTOR
SECT..... SECTION
S.P..... SPLASH PAN
S.S..... SOIL STACK
STL..... STEEL
V.S..... VENT STACK
W/..... WITH
CMU.... CONCRETE MASONRY UNIT
CONT.... CONTINUOUS
N.T.S.... NOT TO SCALE
H.P..... HIGH POINT
C.I..... CAST IRON
W.D.... WOOD
AC..... ACOUSTIC



VICINITY MAP

DRAWING INDEX

A-1 MAPS, DRAWING INDEX & LEGENDS
A-2 TYPICAL FLOOR PLAN, ROOF PLAN
A-3 BASEMENT PLAN, ELEVATION & DETAILS
A-4 PENTHOUSE PLAN, ELEVATIONS & DETAILS
A-5 DETAILS

CHECK GRAPHIC SCALES BEFORE USING

REGISTERED ARCHITECT PENNSYLVANIA RICHARD M. HOROWITZ No. 5 A-3

RICHARD M. HOROWITZ, A.I.A.
ARCHITECT AND PLANNER
TRENTON, NEW JERSEY

DSGN SFM DR WS CHK RMH
SUPV. CH ENGR
SUBMITTED BY R. HOROWITZ (ARCH) DATE 8/8/83
FIRM MEMBER (TITLE)
NORTHDIV MD
DM HD
FPM DIR
APPROVED DATE
OFFICER IN CHARGE
APPROVED DATE
NORTHDIV FOR COMMANDER NAVFAC

SATISFACTORY TO DATE
Forrest of H. Ward 6/19/84

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
NORTHERN DIVISION
NAVAL BASE PHILADELPHIA PA.

NAVAL EDUCATION TRAINING CENTER — COASTERS HARBOR ISLAND, NEWPORT R.I.

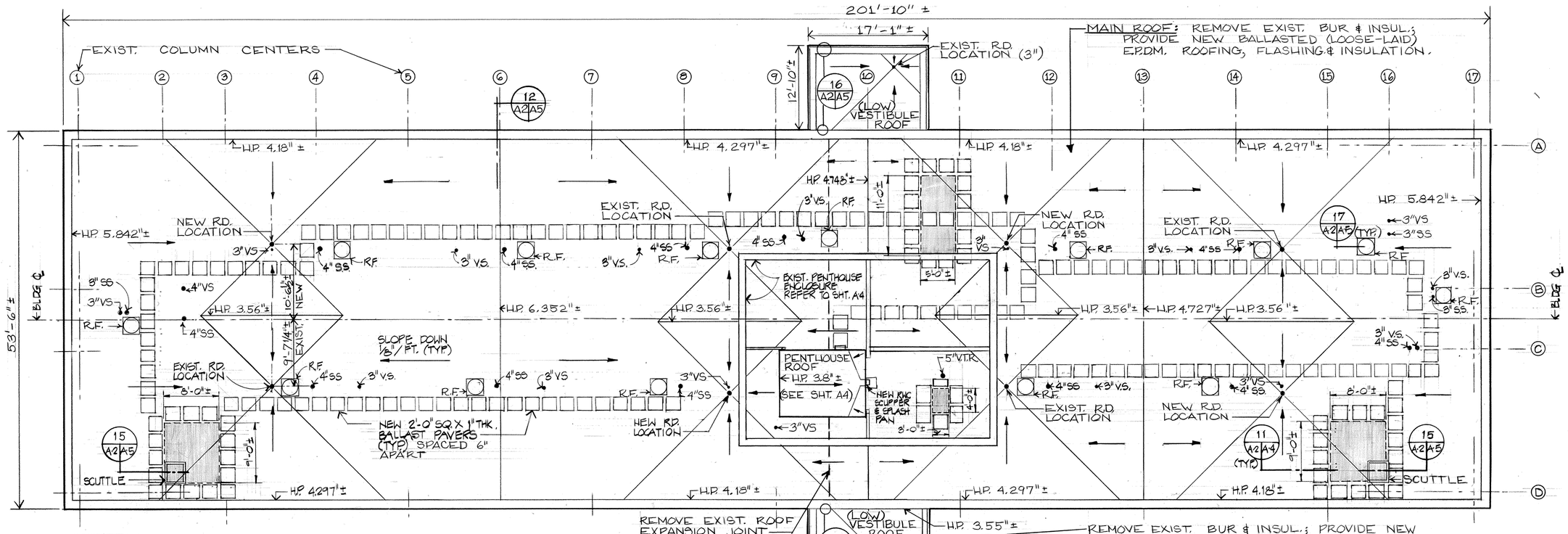
REPAIRS ROOF, BUILDING 172

MAPS, DRAWING INDEX & LEGENDS

SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.	
F	80091	2071744	A1
		CONSTR CONTR. NO. NG2472-83C-0271	
SCALE AS NOTED	SPEC. 04-83-0271	SHEET 1 OF 5	

NETC DWG. NO. 25585-252

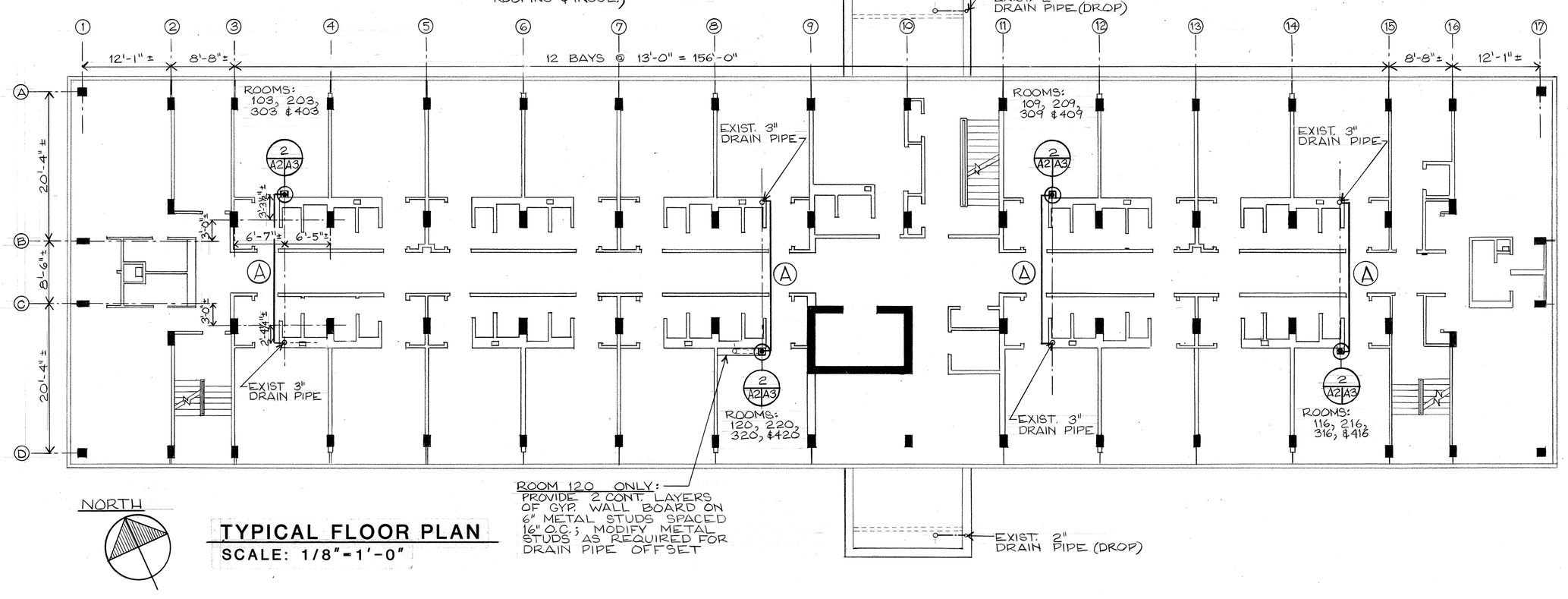
REVISIONS				
LTR	DESCRIPTION	PREP'D BY	DATE	APPROVED
A	REVISED AS BUILT	D.B.	8/24/83	D.B.



ROOF PLAN

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

... LOCATIONS OF 4" THK. CONC. SLAB AREAS ON MAIN ROOF TOTAL 213 S.F. (REMOVE EXIST. BUR & INSUL.; PROVIDE NEW FULLY ADHERED E.P.D.M. ROOFING & INSUL.)



TYPICAL FLOOR PLAN

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

ROOM 120 ONLY: PROVIDE 2 CONT. LAYERS OF GYP. WALL BOARD ON 6" METAL STUDS SPACED 16" O.C.; MODIFY METAL STUDS AS REQUIRED FOR DRAIN PIPE OFFSET

GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE 6 NEW ROOF DRAINS TO REPLACE EXISTING. EXISTING DRAIN PIPES SHALL BE MECHANICALLY CLEANED TO LEVEL OF STORM SEWER INVERT (± 40 FEET EACH FOR MAIN ROOF AND ± 20 FEET FOR VESTIBULE DRAINS).
2. CONTRACTOR SHALL PROVIDE 4 NEW ROOF DRAINS AND PIPING CONNECTING TO EXISTING C.I. STORM DRAINAGE PIPING IN BASEMENT AS INDICATED.
3. EXCAVATE EXISTING 3" STABILIZED CONCRETE FILL AND 6" GRAVEL ON GRADE AS REQUIRED FOR NEW DRAINPIPE CONNECTIONS. PROVIDE BACKFILL AS REQUIRED, WELL TAMPED AND PUDDLED. AFTER PIPING INSTALLATION AND BACKFILL, MATCH 6" GRAVEL AND 3" STABILIZED FILL.
4. ALL TAPERED INSULATION (INCLUDING GUSSETS OF PENTHOUSE ROOF) SHALL BE INSTALLED BENEATH NEW RIGID INSULATION. PERLITE AND ASPHALT SHALL NOT COME IN CONTACT WITH MEMBRANE BONDING ADHESIVES.
5. TOP LAYER OF INSULATION SHALL BE CUT TO CONFORM TO NEW VALLEYS FORMED BY TAPERED INSULATION.
6. HIGH POINT ELEVATIONS INDICATE TOTAL MINIMUM INSULATION THICKNESS. LOW POINTS (AT DRAINS AND SCUPPER) SHALL BE MIN. 2.3" (MIN. 1/2" THICK TAPERED INSULATION UNDER MIN. 1.8" RIGID INSULATION). THICKNESS OF NEW RIGID INSULATION SHALL NOT VARY.
7. SEE EXISTING CONSTRUCTION DRAWINGS ADJACENT TO NEW DETAILS FOR TYPICAL ITEMS TO BE REMOVED.
8. APPROXIMATELY 40% OF MAIN ROOF AREA IS PATCHED WITH ADDITIONAL 4 PLYS OF ASPHALT ROOFING OVER EXISTING 4 PLYS.
9. NEW PIPING IN BASEMENT SHALL BE INSTALLED SO AS TO MAINTAIN MAXIMUM HEAD ROOM.
10. NEW ROOF DRAINS SHALL INCLUDE DOME STRAINER, CLAMPING RING, EXTENSION COLLAR, AND SUMP RECEIVER. ALL DRAINS 3" DIAMETER.

GRAPHIC SCALES 1/8" = 1'-0" 0 5' 10' 20' 30' 40'

CHECK GRAPHIC SCALES BEFORE USING

REGISTERED ARCHITECT PENNSYLVANIA RICHARD M. HOROWITZ No. 8-4208

SATISFACTORY TO DATE

RICHARD M. HOROWITZ, A.I.A.
ARCHITECT AND PLANNER
TRENTON, NEW JERSEY

DSGN SFM DR SFN CHK RMH
SUPV CH ENGH
SUBMITTED BY R. HOROWITZ (ARCH) DATE 8/8/83
FIRM MEMBER (TITLE)
NORTHDIV MD
DM HD
FBE DIR
APPROVED DATE
OFFICER IN CHARGE
APPROVED DATE
NORTHDIV FOR COMMANDER NAVFAC

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
NORTHERN DIVISION
NAVAL BASE PHILADELPHIA PA.

NAVAL EDUCATION TRAINING CENTER, COASTERS HARBOR ISLAND, NEWPORT R.I.

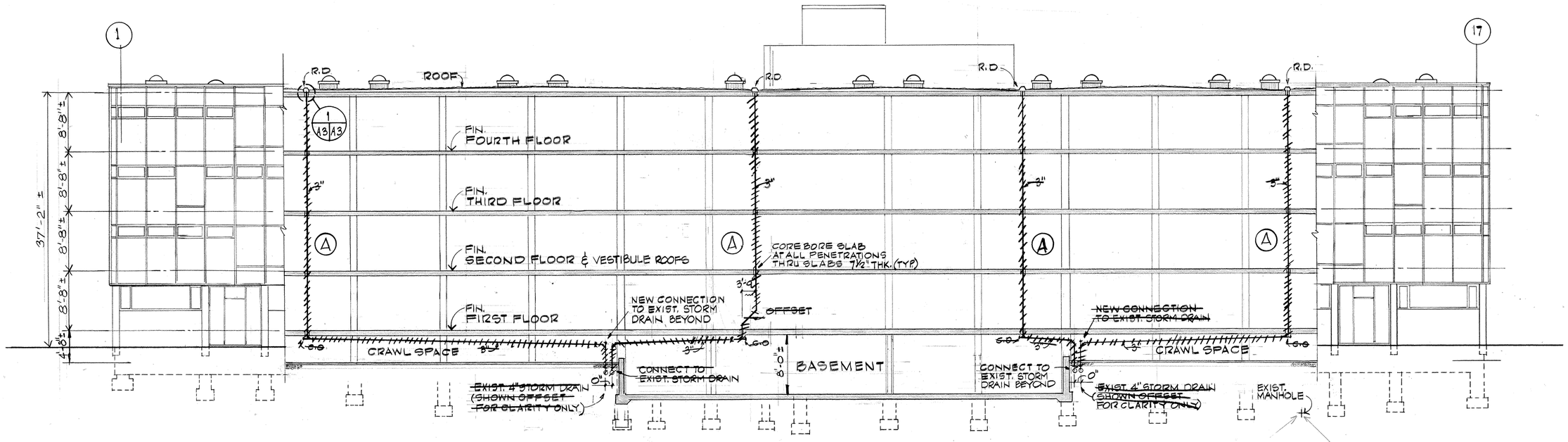
REPAIRS ROOF, BUILDING 172

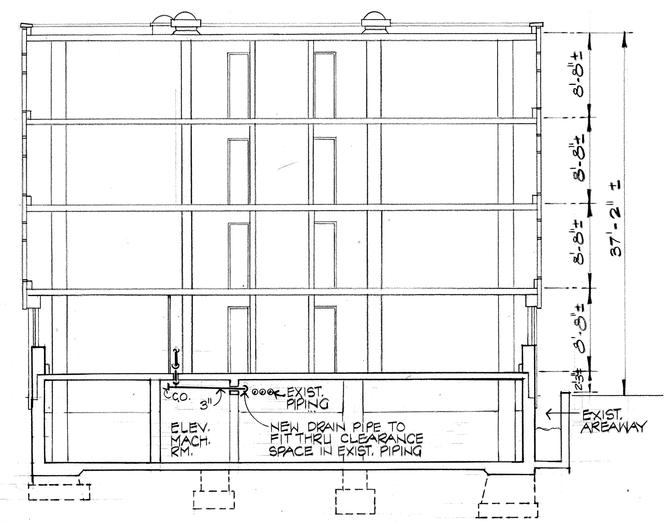
TYPICAL FLOOR PLAN, ROOF PLAN

SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.	
F	80091	2071745	A2
		CONSTR CONTR NO. N62472-83C-0271	
SCALE AS NOTED	SPEC. 04-83-0271	SHEET 4 OF 5	

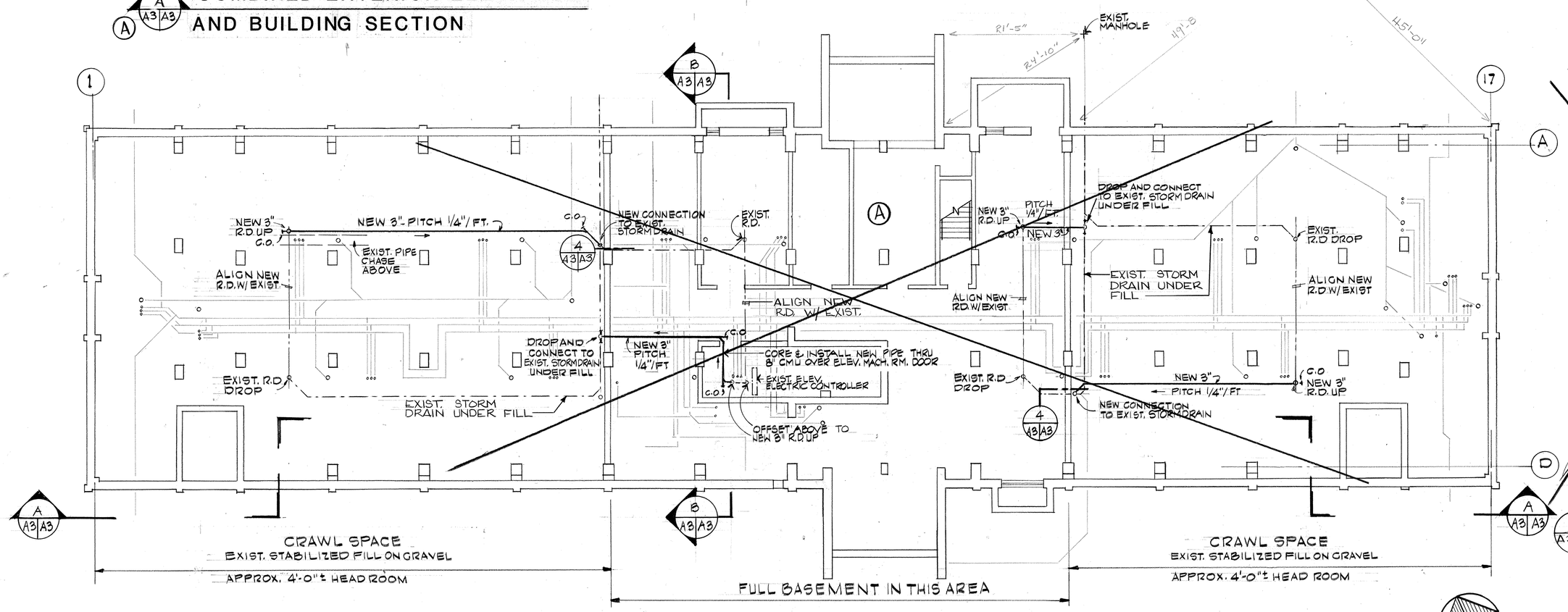
NETC DWG. NO. 25586-252

REVISIONS				
LTR	DESCRIPTION	PREP'D BY	DATE	APPROVED
A	REVISED AS BUILT	D.B.	8/26/85	D.B.



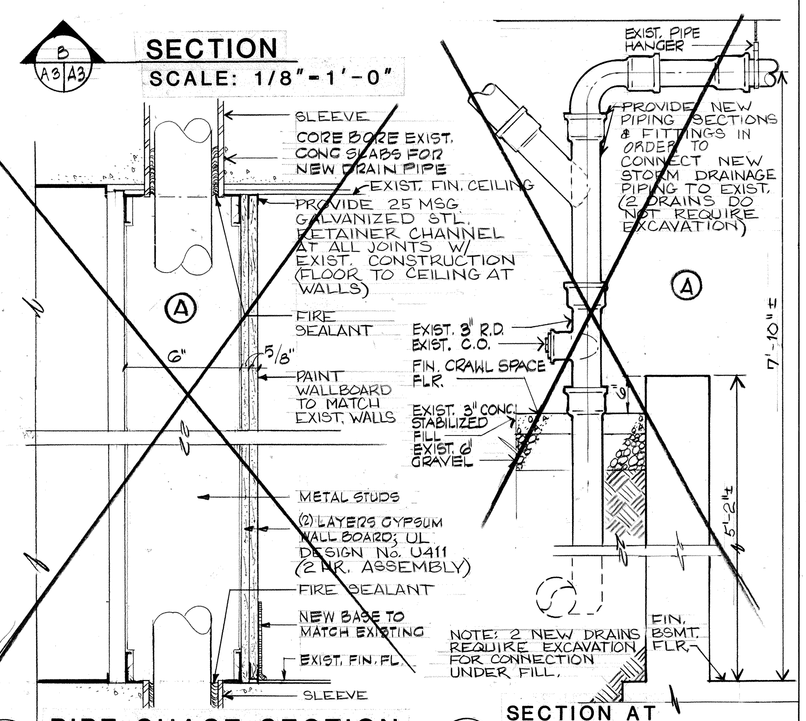


COMBINED EXTERIOR ELEVATION AND BUILDING SECTION



BASEMENT FLOOR PLAN

SCALE 1/8" = 1'-0"



SECTION

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

PIPE CHASE SECTION

SCALE: 3" = 1'-0"

SECTION AT CRAWL SPACE

SCALE: 1" = 1'-0"

GRAPHIC SCALES

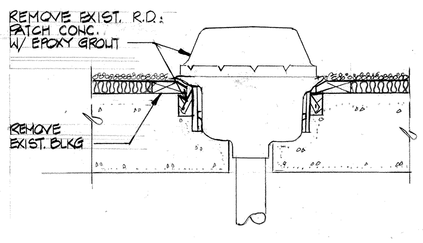
1" = 1'-0" : 0 3 6 9 1'-0" 2'-0" 3'-0" 5'-0"

3" = 1'-0" : 0" 3" 6" 9" 1'-0" 1'-6"

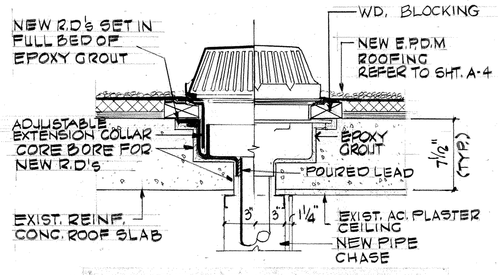
1/2" = 1'-0" : 0 1' 2' 3' 4' 5' 6' 7' 8' 9' 10'

1/8" = 1'-0" : 0 5' 10' 20' 30' 40'

CHECK GRAPHIC SCALES BEFORE USING



SECT. THRU EXIST. R.D.



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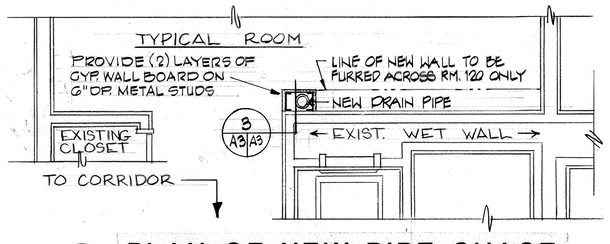

PLAN OF NEW PIPE CHASE

SCALE: 1/2" = 1'-0"

RICHARD M. HOROWITZ, A. I. A.
ARCHITECT AND PLANNER
TRENTON, NEW JERSEY

REGISTERED ARCHITECT COMMONWEALTH OF PENNSYLVANIA RICHARD M. HOROWITZ No. 4200

SATISFACTORY TO DATE

DSGN SFM DRK.NHCHK RMH
SUPV CH ENGH
SUBMITTED BY R. HOROWITZ (ARCH) 8/8/83 DATE
FIRM MEMBER (TITLE)
NORTHDIV MD
DM HD
FIRE DR
APPROVED DATE
OFFICER IN CHARGE
APPROVED DATE
NORTHDIV FOR COMMANDER NAVFAC

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
NORTHERN DIVISION
NAVAL BASE PHILADELPHIA PA.

NAVAL EDUCATION TRAINING CENTER — COASTERS HARBOR ISLAND, NEWPORT R.I.

REPAIRS ROOF, BUILDING 172

PLAN, ELEVATION & DETAILS

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	
F	80091	2071746	A3

CONSTR CONTR NO. N62472-83C-0271

SCALE AS NOTED | SPEC 04-83-0271 | SHEET 3 OF 5

NETC DWG. NO. 25587-252

REVISIONS				
LTR	DESCRIPTION	PREP'D BY	DATE	APPROVED
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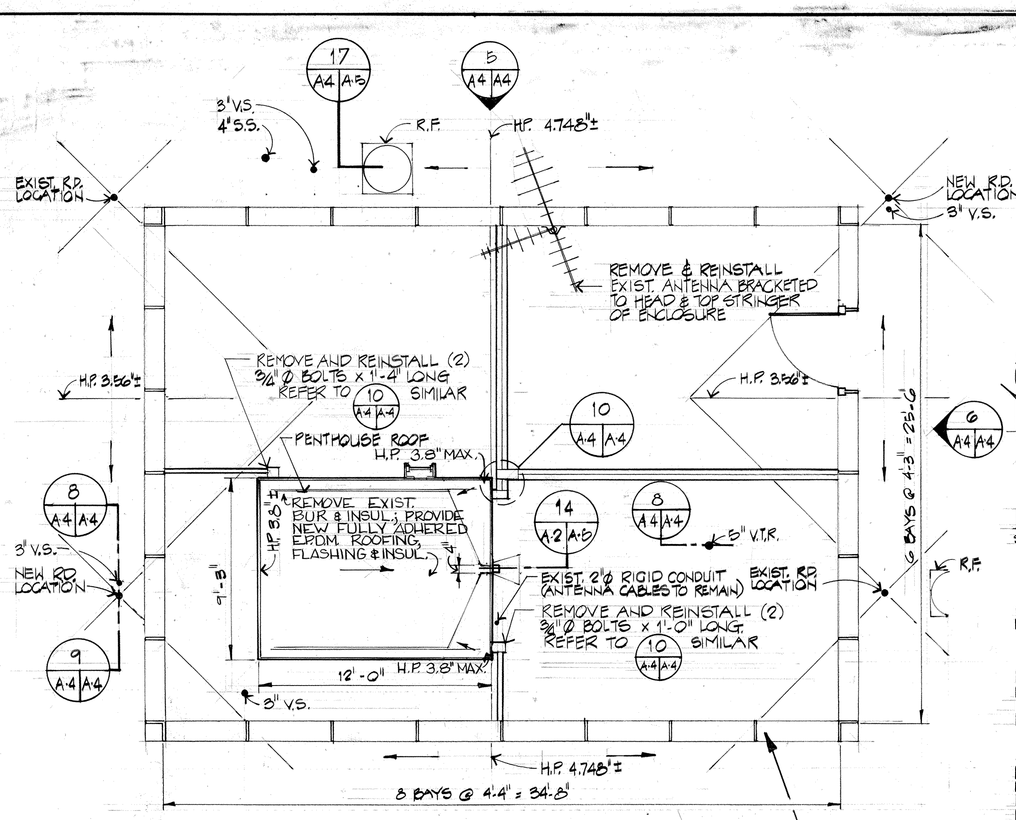
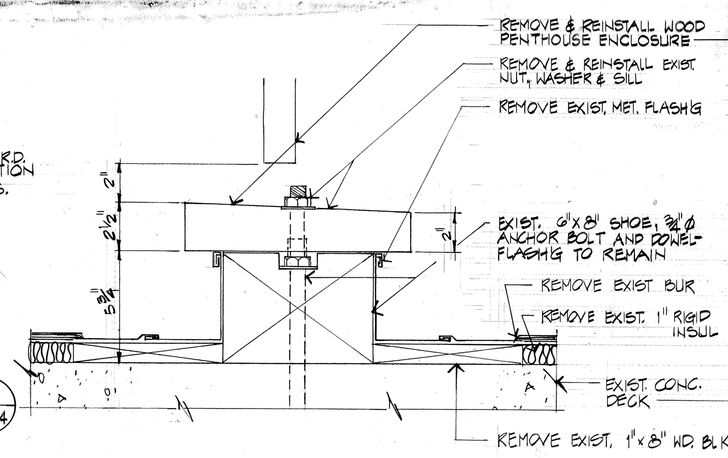
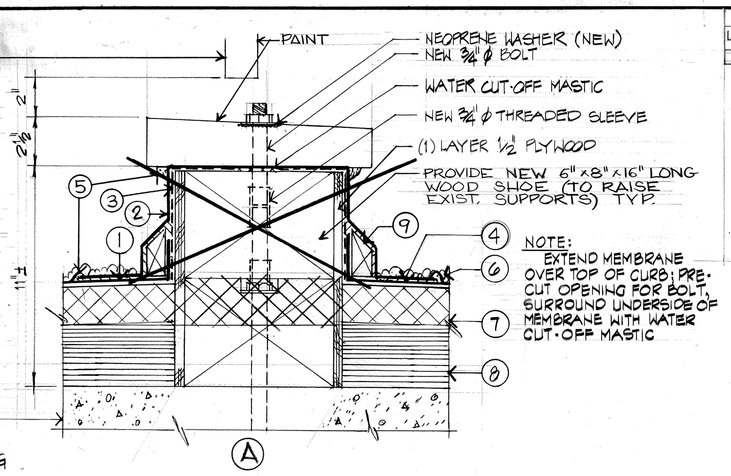


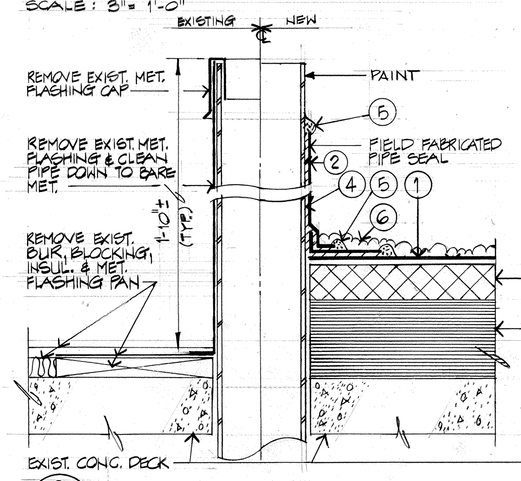
PLAN OF PENTHOUSE ENCLOSURE
SCALE: 1/4" = 1'-0"



EXIST. ENCLOSURE SUPPORT CONSTRUCTION
SCALE: 3" = 1'-0"



7 A-4 A4 ENCLOSURE SUPPORT DETAIL
SCALE: 3" = 1'-0"



8 A-4 A-4 ROOF VENT FLASHING DETAIL
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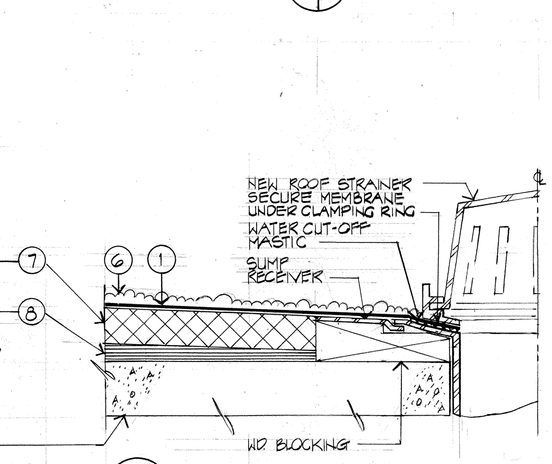
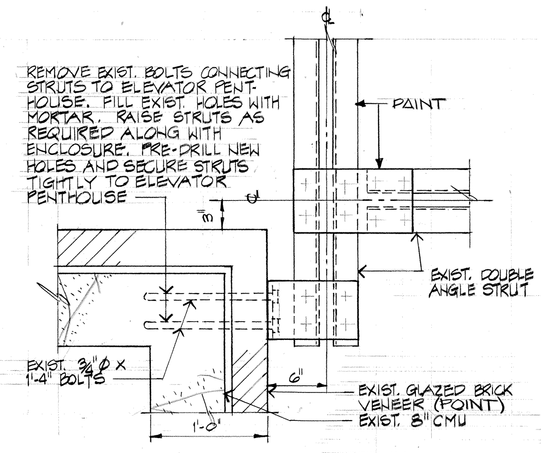
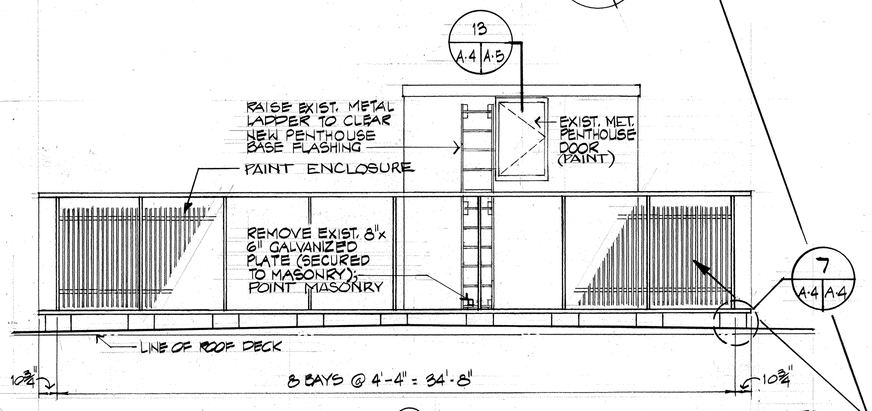


9 A4 A-4 ROOF DRAIN DETAIL
N.T.S.

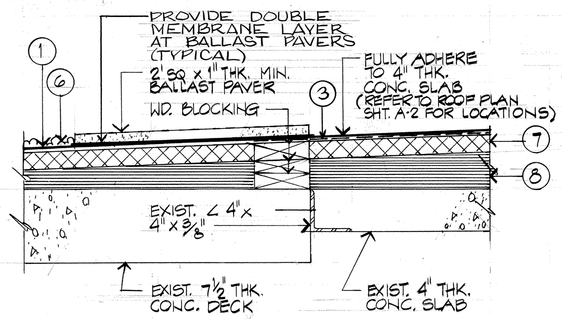


10 A-4 A-4 STRUT CONNECTION DETAIL
SCALE: 1 1/2" = 1'-0"

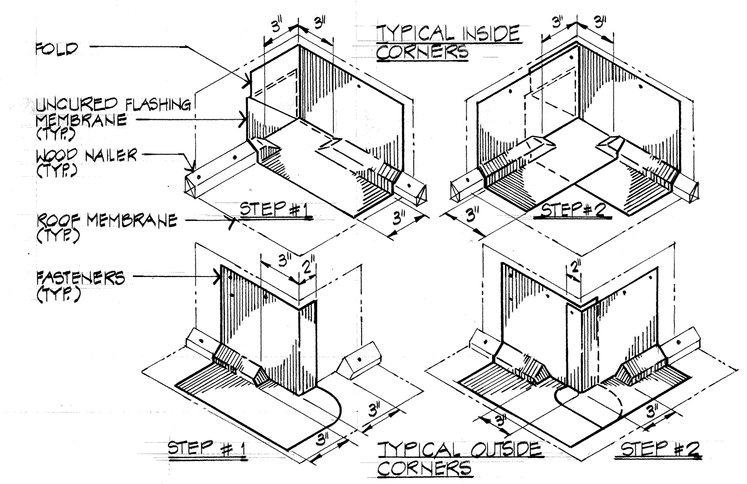


5 A-4 A-4 NORTH ELEVATION
SCALE: 1/4" = 1'-0"

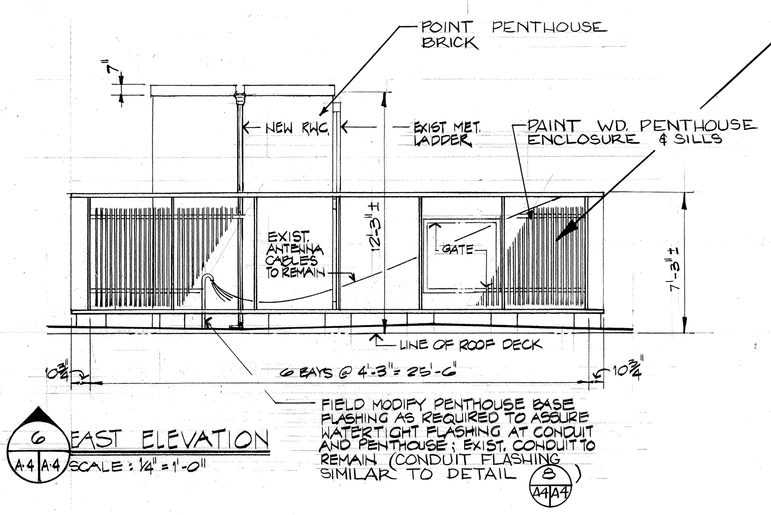
(A) FENCE REMOVED BUT NOT REINSTALLED BY REQUEST OF ACTIVITY



11 A-2 A-4 DETAIL @ 4" THICK CONCRETE SLABS
SCALE: 1 1/2" = 1'-0"

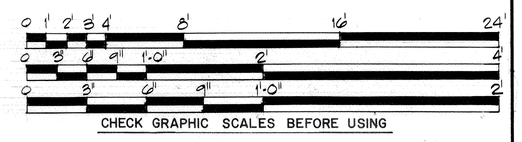


FIELD FABRICATED CORNERS



6 A-4 A-4 EAST ELEVATION
SCALE: 1/4" = 1'-0"

GRAPHIC SCALES



REGISTERED ARCHITECT PENNSYLVANIA RICHARD M. HOROWITZ No. 14500

SATISFACTORY TO DATE

RICHARD M. HOROWITZ, A. I. A.
ARCHITECT AND PLANNER
TRENTON, NEW JERSEY

DSGN RMH DR APM/VCHK RMH
SUPV. CH ENGH
SUBMITTED BY DATE
R. HOROWITZ (ARCH) 8/8/83
FIRM MEMBER (TITLE)
NORTHDIV MD
DM HD
FPE DIR
APPROVED DATE
OFFICER IN CHARGE
APPROVED DATE
NORTHDIV FOR COMMANDER NAVFAC

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
NORTHERN DIVISION
NAVAL BASE PHILADELPHIA PA.

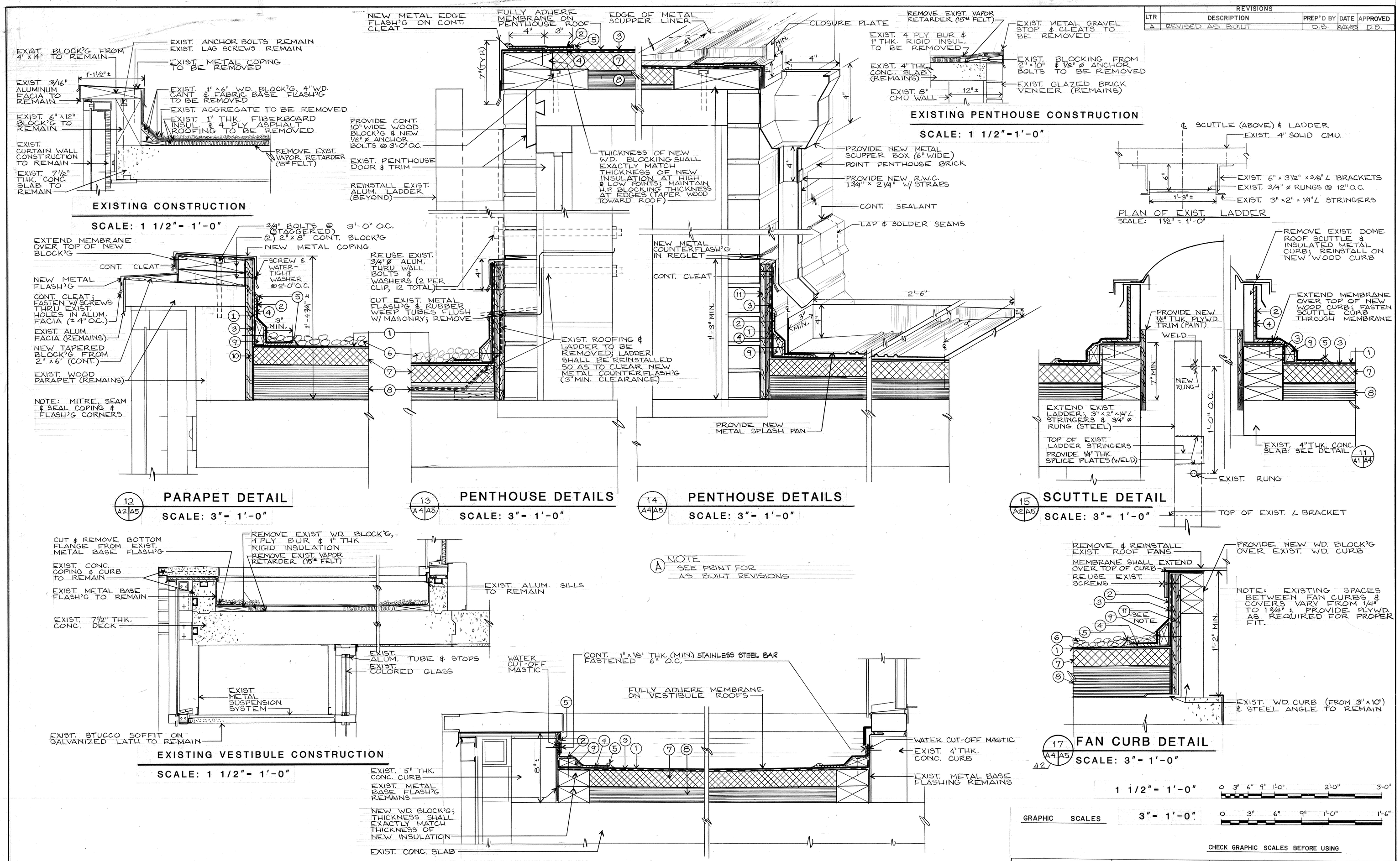
NAVAL EDUCATION TRAINING CENTER
COASTERS HARBOR ISLAND, NEWPORT R.I.

REPAIRS ROOF, B.O.Q BUILDING 172
PENTHOUSE PLAN, ELEVATIONS & DETAILS

SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.	
F	80091	2071747	A4
		CONSTR CONTR. NO. N62472-83C-0271	
SCALE AS NOTED	SPEC. 04-83-0271	SHEET 4 OF 5	

NETC DWG. NO. 25588-252

REVISIONS				
LTR	DESCRIPTION	PREP'D BY	DATE	APPROVED
A	REVISED AS BUILT	D.B.	8/24/85	D.B.



GRAPHIC SCALES

1 1/2"= 1'-0" 0 3" 6" 9" 1'-0" 2'-0" 3'-0"

3"= 1'-0" 0 3" 6" 9" 1'-0" 1'-6"

CHECK GRAPHIC SCALES BEFORE USING

SATISFACTORY TO DATE

RICHARD M. HOROWITZ, A.I.A.
ARCHITECT AND PLANNER
TRENTON, NEW JERSEY

DSGN SFM DR SFM Chk RMH
SUPV. CH ENGR
SUBMITTED BY R. HOROWITZ (ARCH) 8/3/83 DATE
FIRM MEMBER (TITLE)
NORTHDIV MD
DM MD
FPE DIR
APPROVED DATE
OFFICER IN CHARGE
APPROVED DATE
NORTHDIV FOR COMMANDER NAVFAC

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
NORTHERN DIVISION
NAVAL BASE PHILADELPHIA PA.

NAVAL EDUCATION TRAINING CENTER
COASTERS HARBOR ISLAND, NEWPORT, R.I.

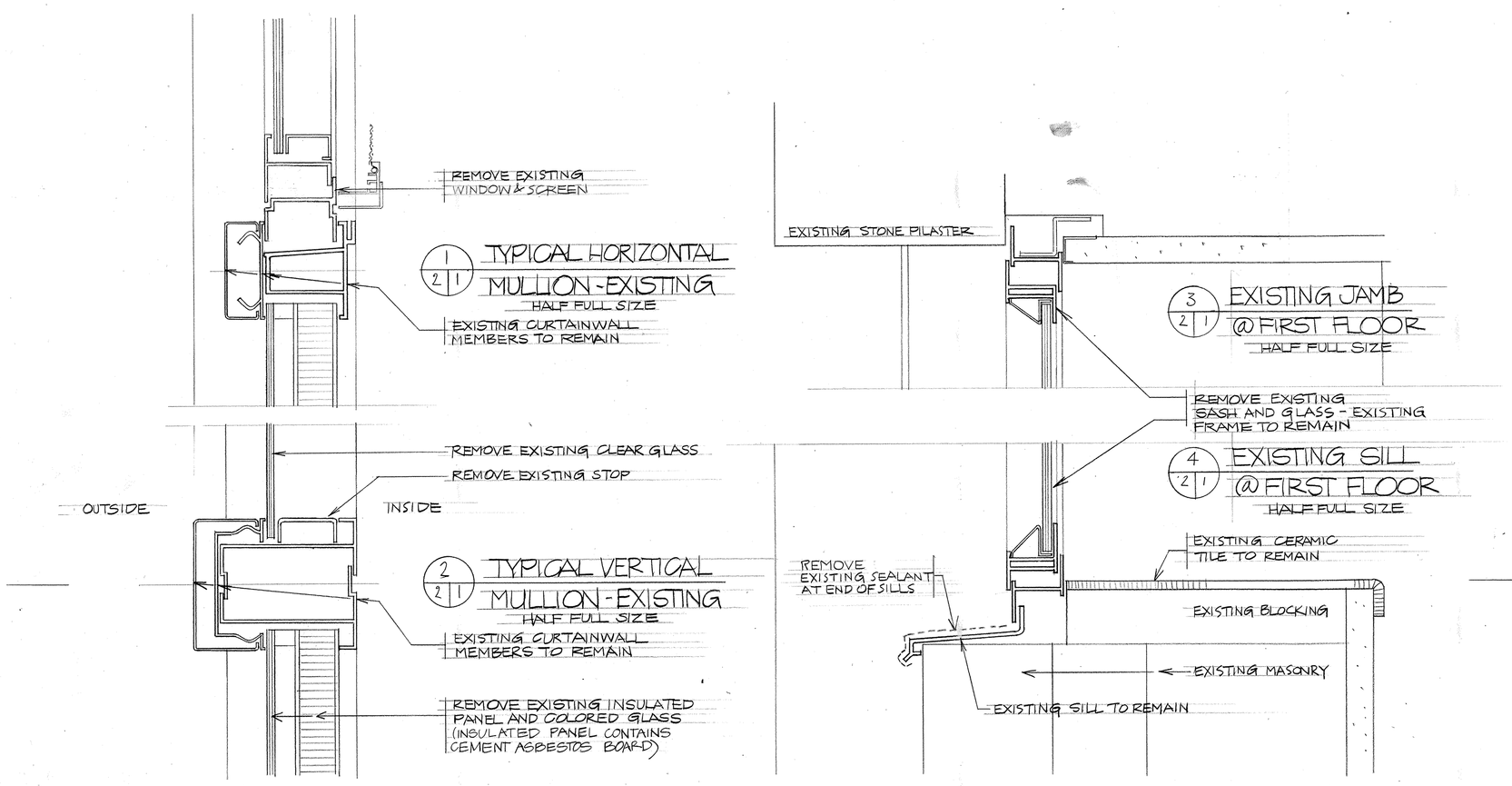
REPAIRS ROOF, BUILDING 172

DETAILS

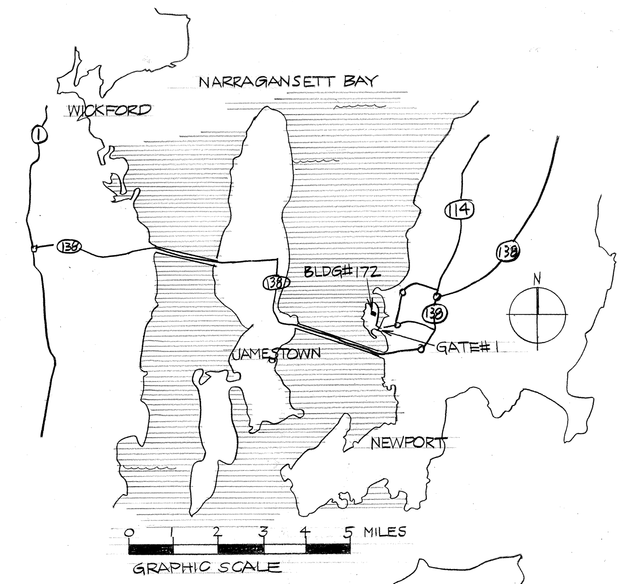
SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.	
F	80091	2071748	A5
		CONSTR CONTR NO. N62472-83C-0271	
SCALE AS NOTED	SPEC. 04-83-0271	SHEET 5 OF 5	

NETC DWG. NO. 25589-252

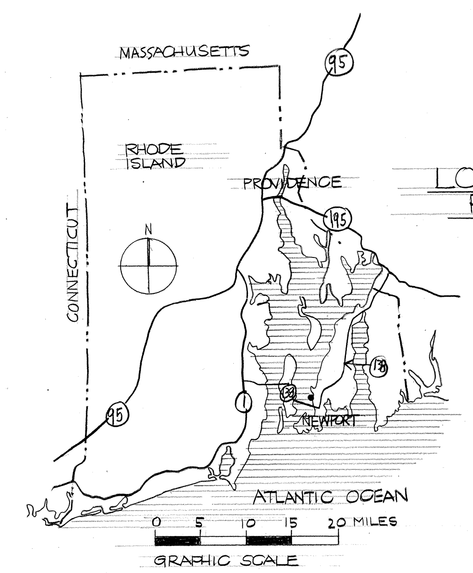
REVISIONS				
LTR	DESCRIPTION	PREP'D BY	DATE	APPROVED
	AS BUILT	D.B.	1-16-86	D.B.

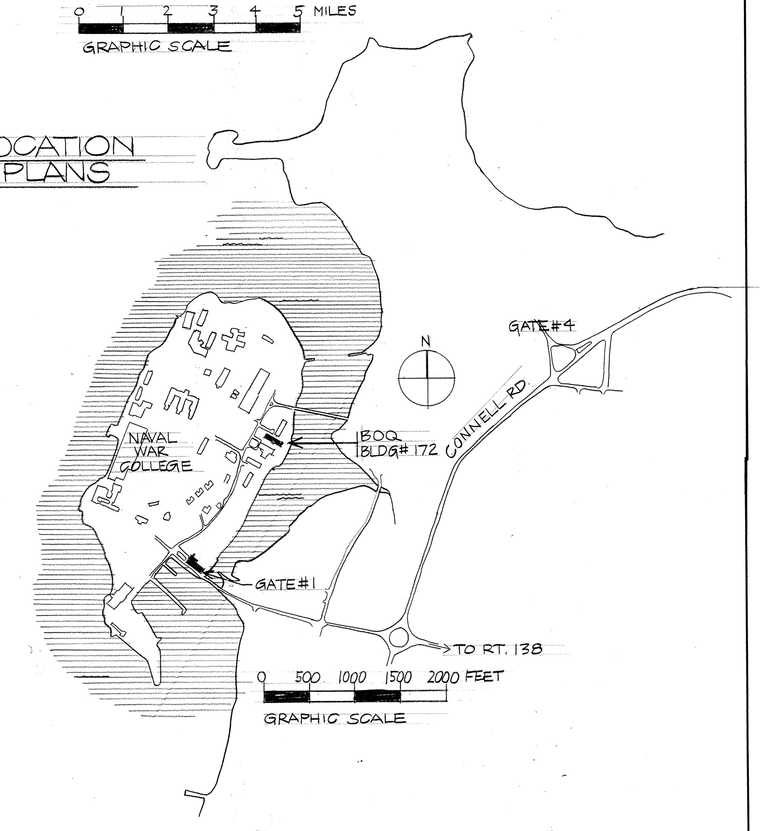


TYPICAL EXISTING WINDOWS



LOCATION PLANS





0 1" 2" 3" 4" 5" 6" 7"
HALF FULL SIZE

CHECK GRAPHIC SCALES BEFORE USING

RAFFAELE LAMBORGHINI No. 329 REGISTERED ARCHITECT

LAMBORGHINI & PIPKA
PROVIDENCE, RHODE ISLAND
ARCHITECTS

DSGN DN CHK
SUBMITTED BY 17 FEB 1983 DATE
FIRM MEMBER
NORDIV HD.
DM HD. TUFCV
FPE DIR.
APPROVED DATE
OFFICER IN CHARGE
APPROVED DATE
NORDIV FOR COMMANDER NAVFAC

SATISFACTORY TO: DATE
COMNETC NEWPORT 1 MAR 83
LTR. H. BELSON

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
NORTHERN DIVISION
NAVAL BASE — PHILADELPHIA, PA.

NAVAL EDUCATION AND TRAINING CENTER
NEWPORT, RI
REPLACE WINDOWS BOQ# 172
LOCATION PLAN

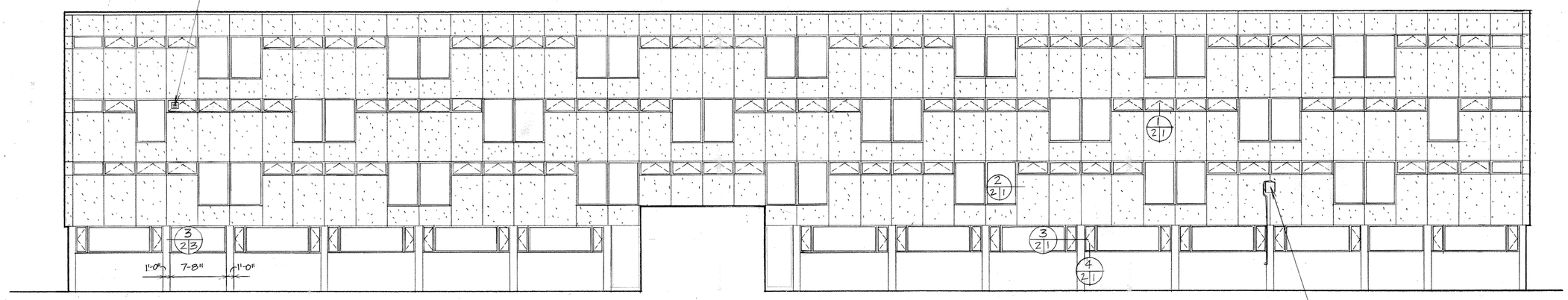
SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.
F	80091	2065303

CONSTR. CONTR. NO. N62472-81-C-0238
SCALE AS NOTED | SPEC. 04-81-0238 | SHEET 1 OF 3 | A1

NETC DWG. NO. 25679-253

REVISIONS				
LTR	DESCRIPTION	PREP'D BY	DATE	APPROVED
	AS BUILT	D.B.	4-6-84	D.B.

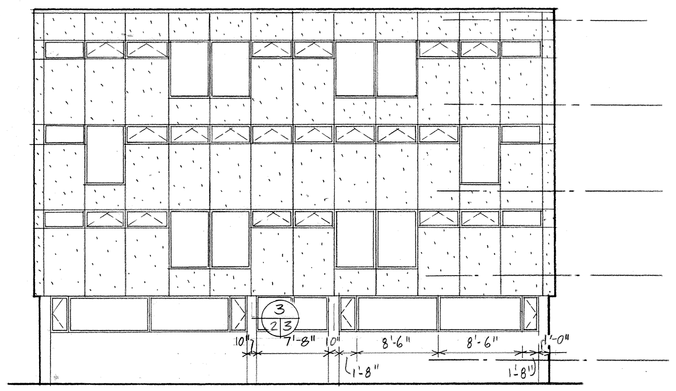
AT THIS WINDOW PROVIDE 1" THICK INSULATED PANEL INSTEAD OF GLASS, AND RE-INSTALL EXISTING DRYER VENT.



REMOVE EXISTING LIGHTING FIXTURE AND CONDUIT. RE-INSTALL AFTER WINDOWS ARE REPLACED

NORTH ELEVATION

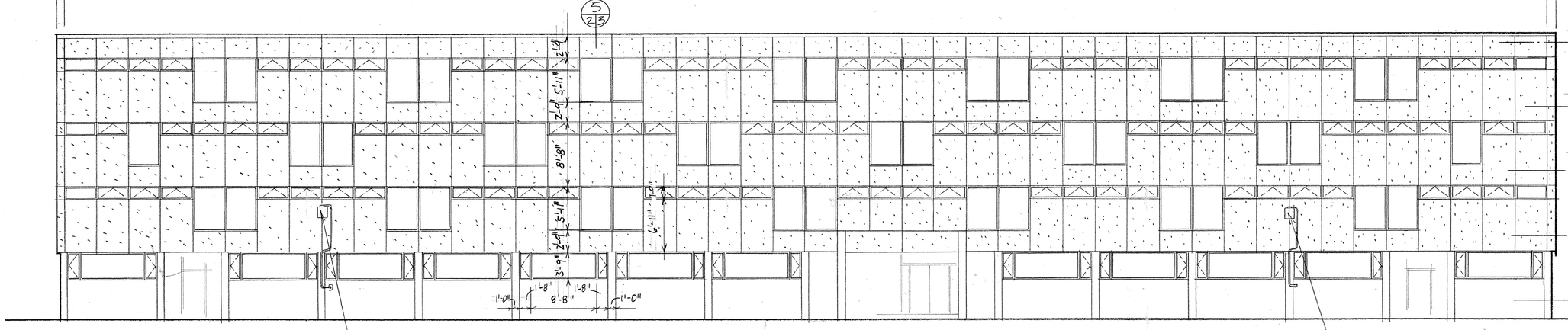
1/8" = 1'-0"



WEST ELEVATION

1/8" = 1'-0"

CURTAIN WALL MULLIONS 46 BAYS @ 4'-4" O.C. = 199'-4"



REMOVE EXISTING LIGHTING FIXTURE AND CONDUIT. RE-INSTALL AFTER WINDOWS ARE REPLACED

SOUTH ELEVATION

1/8" = 1'-0"

REMOVE EXISTING LIGHTING FIXTURE AND CONDUIT. RE-INSTALL AFTER WINDOWS ARE REPLACED

± 1'-0"

CURTAIN WALL MULLIONS 12 BAYS @ 4'-3" O.C. = 51'-0"

ROOF SLAB ELEV. 54.67'

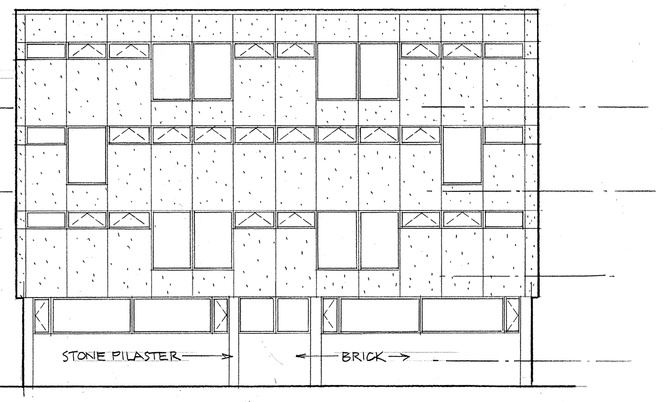
4TH FLOOR ELEV. 46.00'

3RD FLOOR ELEV. 37.33'

2ND FLOOR ELEV. 28.67'

1ST FLOOR ELEV. 20.00'

GRADE ELEV. 12.58'



EAST ELEVATION

1/8" = 1'-0"

SYMBOL	WORK REQUIRED	
MULLIONS	REMOVE EXISTING GLASS-FACED INSULATING PANEL. PROVIDE NEW INSULATED PANEL	UPPER LEVELS
	REMOVE EXISTING OUT-PROJECTING WINDOW AND SCREEN. PROVIDE NEW OUT-PROJECTING WINDOW, WITH INSULATING GLASS AND SCREEN	UPPER LEVELS
	REMOVE EXISTING FIXED GLASS LIGHT AND STOP. PROVIDE NEW INSULATING FIXED GLASS AND STOP	UPPER LEVELS
	REMOVE EXISTING FIXED WINDOW PROVIDE NEW FIXED WINDOW WITH INSULATING GLASS	UPPER LEVELS
	REMOVE EXISTING CASEMENT SASH AND SCREEN. PROVIDE NEW CASEMENT WINDOW WITH INSULATING GLASS AND SCREEN	FIRST FLOOR
	REMOVE EXISTING GLASS. PROVIDE NEW FIXED WINDOW WITH INSULATING GLASS	FIRST FLOOR

SCHEMATIC KEY TO ELEVATIONS . NO SCALE

0 5 10 15 20 25 FEET

1/8" = 1'-0"

CHECK GRAPHIC SCALES BEFORE USING

SATISFACTORY TO: DATE

LAMBORGHINI & PIPKA
PROVIDENCE, RHODE ISLAND
ARCHITECTS

DSGN DN CHK
SUBMITTED BY 17 FEB 1983 DATE
FIRM MEMBER
NORDIV HD.
DM HD.
FPE DIR.
APPROVED DATE
OFFICER IN CHARGE
APPROVED DATE
NORDIV FOR COMMANDER NAVFAC

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
NORTHERN DIVISION
NAVAL BASE — PHILADELPHIA, PA.

NAVAL EDUCATION AND TRAINING CENTER
NEWPORT, RI
REPLACE WINDOWS BOQ#172
ELEVATIONS

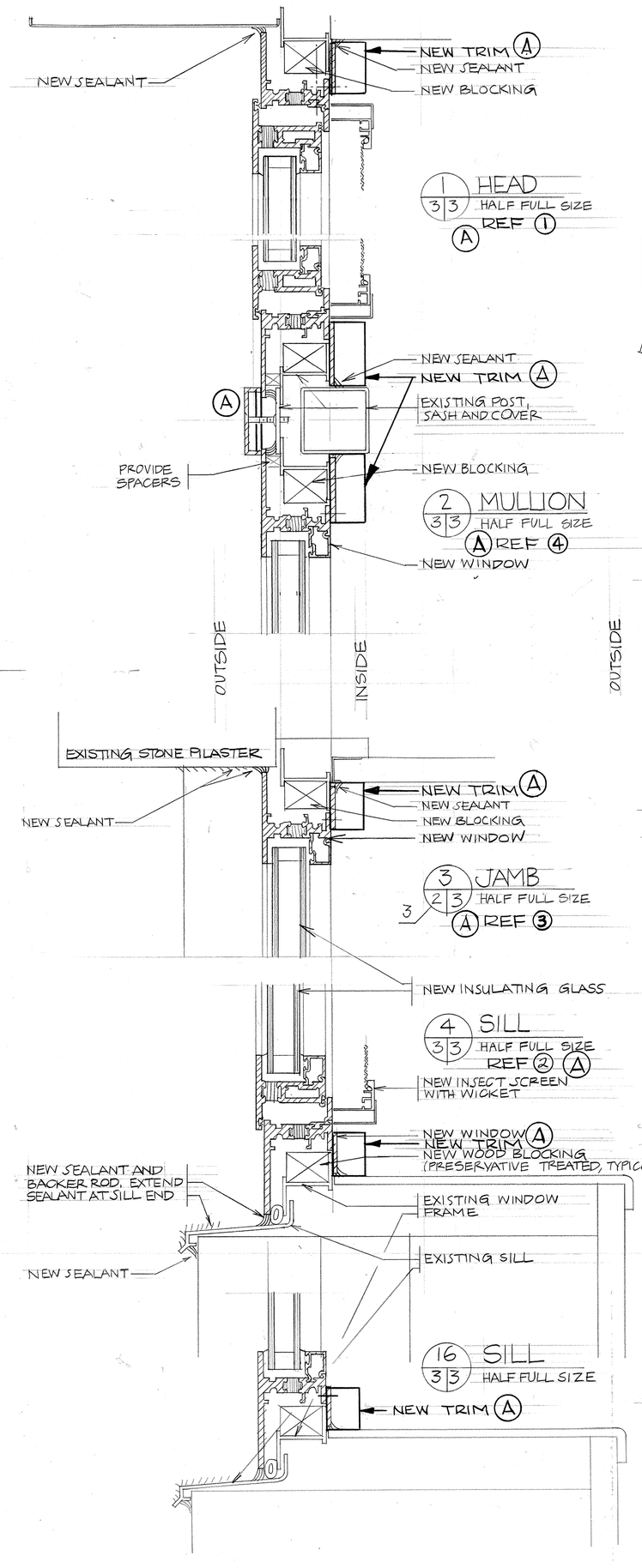
SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.
F	80091	2065304

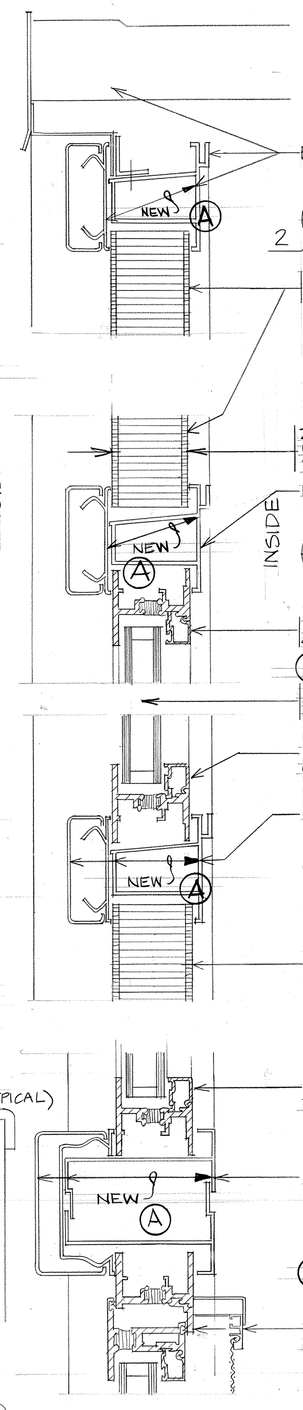
CONSTR. CONTR. NO. N62472-81-C-0238

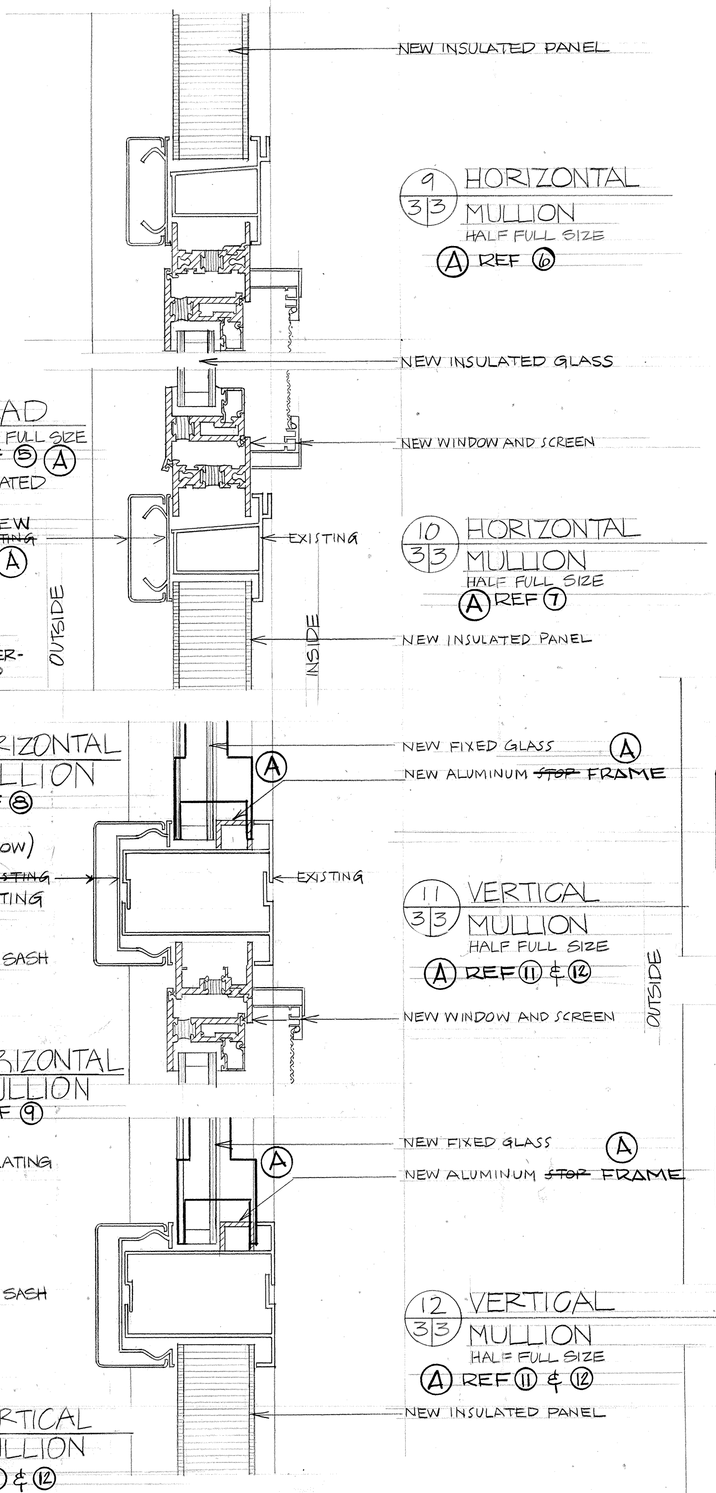
SCALE 1/8" = 1'-0" | SPEC. 04-81-0238 | SHEET 2 OF 3 | A2

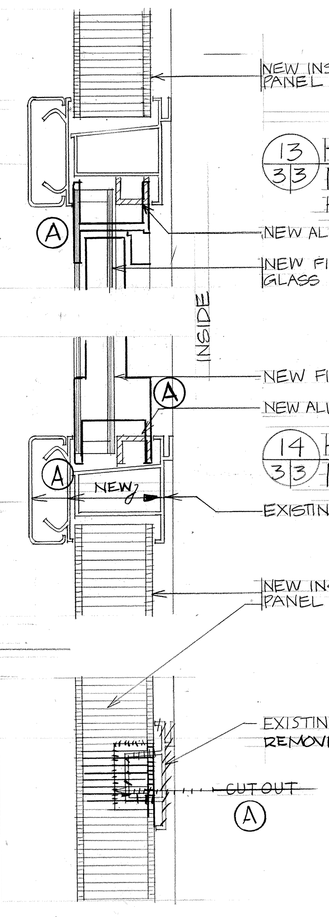
NETC DWG. NO. 25680-253

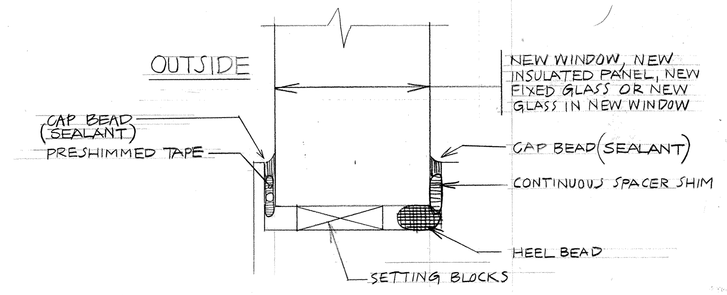
REVISIONS				
LTR	DESCRIPTION	PREP'D BY	DATE	APPROVED
A	REVISED AS BUILT	D.B.	1-16-84	D.B.



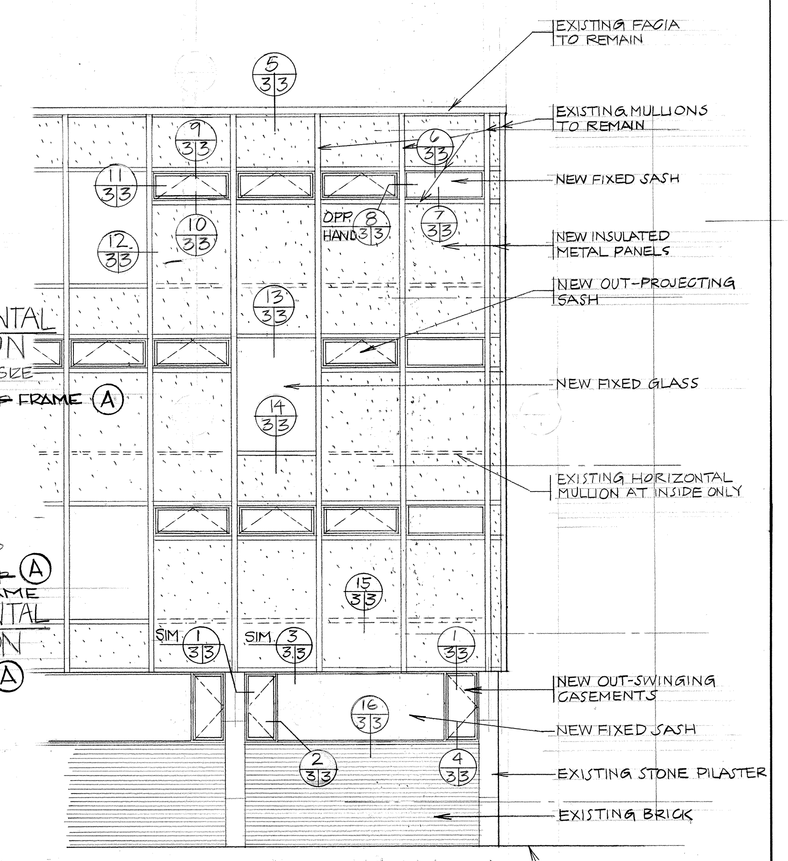








TYPICAL GLAZING METHOD - NO SCALE



TYPICAL ELEVATION (PARTIAL)

1/4" = 1'-0"

0 1 2 3 4 8 12 FEET — 1/4" = 1'-0"

0 1 2 4 8 INCHES — HALF FULL SIZE

CHECK GRAPHIC SCALES BEFORE USING

SATISFACTORY TO: DATE

LAMBORGHINI & PIPKA
PROVIDENCE, RHODE ISLAND
ARCHITECTS

DSGN DN CHK
SUBMITTED BY 17 FEB. 1983 DATE
FIRM MEMBER
NORDIV HD
DM HD
FPE DIR
APPROVED DATE
OFFICER IN CHARGE
APPROVED DATE
NORDIV FOR COMMANDER NAVFAC

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
NORTHERN DIVISION
NAVAL BASE — PHILADELPHIA, PA.

NAVAL EDUCATION AND TRAINING CENTER
NEWPORT, RI
REPLACE WINDOWS BOQ # 172
DETAILS

SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.
F	80091	2065305
		CONSTR. CONTR. NO. N62472-81-C-0238
SCALE NOTED	SPEC. 04-81-0238	SHEET 3 OF 3 — A3

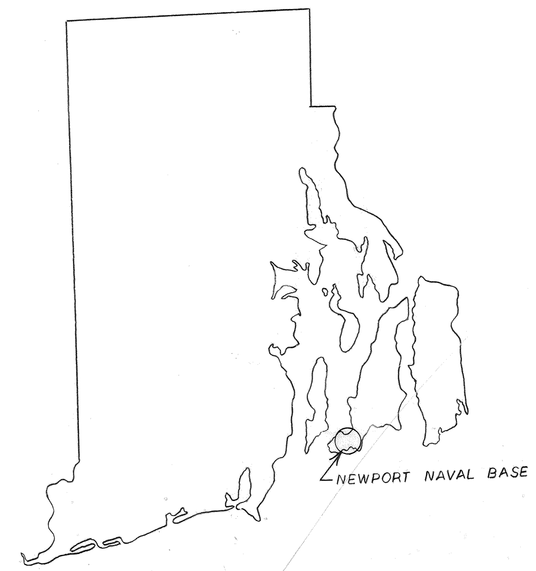
NETC DWG. NO. 25681-253

REVISIONS				
LTR	DESCRIPTION	PREP'D BY	DATE	APPROVED
	AS BUILT	D.B.	4/28/86	D.B.

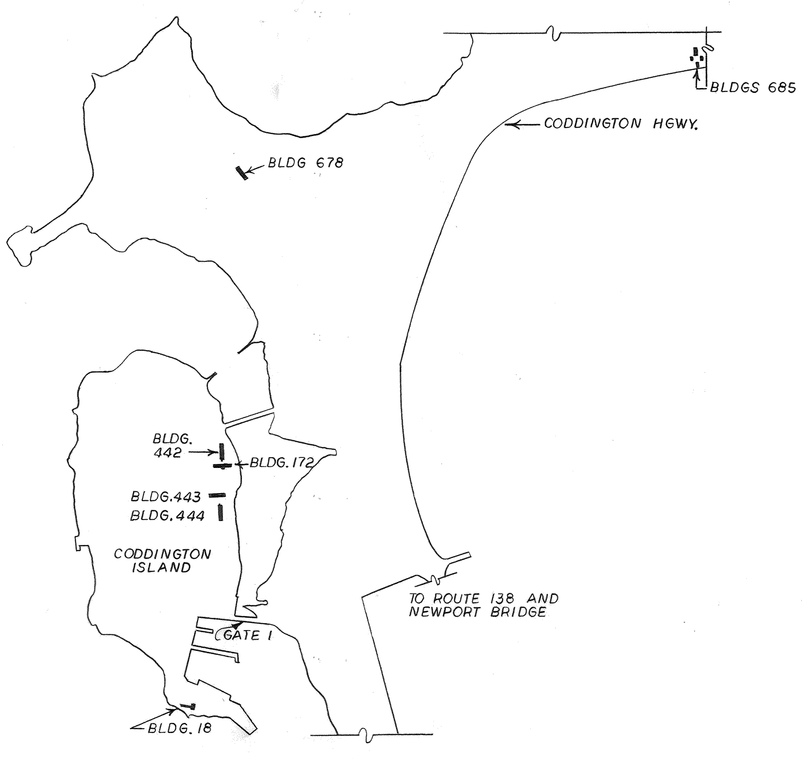
SMOKE DETECTORS UOPH NO'S 172, 442, 443, 444, 678, 685 & 18

NAVAL EDUCATION AND TRAINING CENTER

NEWPORT, RHODE ISLAND



RHODE ISLAND STATE MAP N.T.S.



PARTIAL BASE PLAN N.T.S.

EXISTING FIRE ALARM CONDUIT SYSTEMS

BLDGS. 442, 444 – CONDUIT SYSTEM RISES VERTICALLY THRU EACH PULL STATION AND BELL FROM THE CRAWL SPACE TO THE TOP FLOOR. NO CONDUIT SIZES INDICATED.

BLDG. 172 – 3/4" CONDUIT SYSTEM RISES VERTICALLY THRU EACH PULL STATION AND BELL FROM A CABLE TRAY IN THE CRAWL SPACE TO THE TOP FLOOR. A 1-1/2" CONDUIT CONNECTS THE FIRE ALARM CONTROL PANEL TO THE CABLE TRAY.

BLDG. 18 – NO EXISTING SYSTEM.

BLDGS. 685, 443 – RISER CONFIGURATION INDETERMINATE FROM FIELD DETERMINATION AND REVIEW OF EXISTING DRAWINGS.

BLDG. 678 – 1ST FLOOR, ALL DEVICES CONNECTED LATERALLY. 2ND AND 3RD FLOORS SHARE A COMMON RISER, 4TH AND 5TH FLOORS SHARE A COMMON RISER, ALL DEVICES ON A GIVEN FLOOR ARE CONNECTED LATERALLY.

LEGEND

- F — FIRE ALARM BELL – 84" AFF – H DENOTES HORN/LIGHT UNIT
- F — FIRE ALARM PULL STATION – 52" AFF
- F — FIRE ALARM MASTER BOX – EXISTING UNLESS NOTED (BUILDING 18)
- (H) — AREA TO BE PROTECTED WITH HEAT DETECTION
  F DENOTES FIXED TEMPERATURE
  R DENOTES RATE OF RISE
- (1) — REFER TO NOTE NUMBER (1), ETC.
- FAC — FIRE ALARM CONTROL PANEL
- FAB — FIRE ALARM BATTERY
- FAA — FIRE ALARM ANNUNICATOR
- H — MAGNETIC DOOR HOLDER
- (A) — CONNECTION TO EQUIPMENT
- DISCONNECT SWITCH – 2 WIRE, 30A, SN
- N.T.S. — NOT TO SCALE
- AFF — ABOVE FINISHED FLOOR
- (S) — AREA TO BE PROTECTED WITH SMOKE DETECTION
  D DENOTES INDIVIDUAL DETECTOR USED FOR SMOKE DOOR CONTROL
  AC DENOTES INDIVIDUAL AC POWERED SINGLE STATION DETECTOR
- AUX. — NEW AUXILIARY FIRE ALARM CONTROL PANEL
- (L) — INTERIOR STROBE LIGHT – 84" AFF

NOTES

1. INDIVIDUAL DETECTION DEVICES (SMOKE & HEAT) INDICATED ON THE DRAWINGS DENOTE AREAS TO BE PROTECTED AND DO NOT IN ANY WAY ATTEMPT TO SHOW THE NUMBER OF DEVICES TO BE INSTALLED WITHIN THE AREA.
2. ALL DEVICES INDICATED AS "EXISTING" ARE SHOWN ON THE CONTRACT DRAWINGS, IN THE ACTUAL QUANTITIES THAT ARE INSTALLED.
3. PROVIDE TROUBLE AND LOW BATTERY VOLTAGE INDICATION IN ALL REMOTE ANNUNCIATORS.
4. EXISTING DEVICE TO REMAIN. SEE NOTE (2) FOR QUANTITY.
5. EXISTING DEVICE TO BE REMOVED. SEE NOTE (2) FOR QUANTITY.
6. EXISTING DEVICE TO BE REMOVED AND REPLACED WITH NEW DEVICE OR DEVICES OF THE SAME TYPE (PER PROJECT SPECIFICATIONS). SEE NOTE (2) FOR QUANTITY OF EXISTING DEVICES.
7. PROVIDE NEW DEVICE. SEE NOTE (1).

GRAPHIC SCALES

CHECK GRAPHIC SCALES BEFORE USING

THE STATE OF NEW HAMPSHIRE EDWARD J. GIBSON 10-4769 LICENSED PROFESSIONAL ENGINEER

LEE F. CARROLL, P.E.
ELECTRICAL CONSULTANTS
GORHAM, N.H. 03581

DSGN EJG DR KJM CHK LFC
SUPV CH ENGR
SUBMITTED BY Lee F. Carroll, P.E.
FIRM MEMBER
NORTHDIV HD
DM HD
FPE DIR.
APPROVED DATE
OFFICER IN CHARGE
APPROVED DATE 5/7/86
NORTHDIV FOR COMMANDER NAVFAC

SATISFACTORY TO DATE
Fonecon J. Bellivean 5/3/86

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
NORTHERN DIVISION
NAVAL BASE PHILADELPHIA, PA

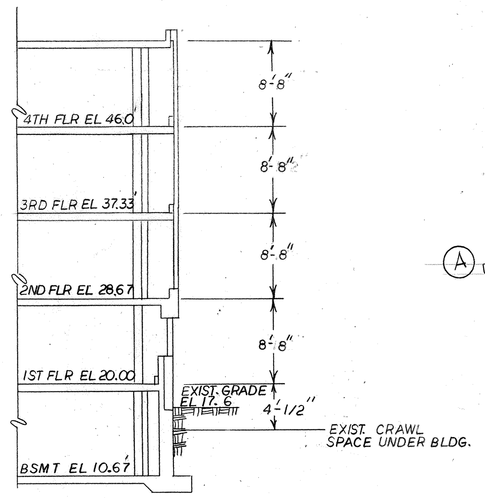
N.E.T.C. NEWPORT, R.I.
SMOKE DETECTORS, VARIOUS BUILDINGS (172, 442, 443, 444, 678, 685, 18)
TITLE, LEGEND AND SITE

SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.
F	80091	2065725

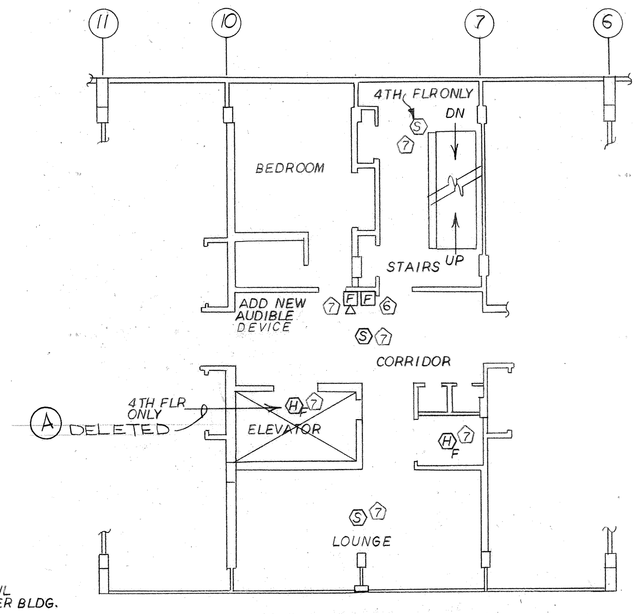
CONSTR. CONTR. NO. N62472-81-C-0597
SCALE NONE SPEC. 04-81-0597 SHEET E-1 OF 9

NETC DWG. NO. 25879-255

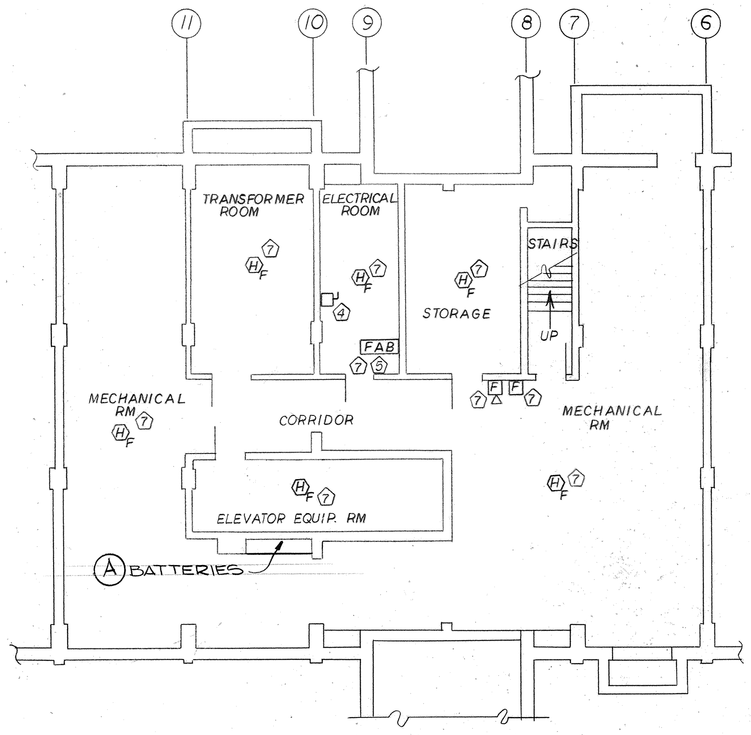
REVISIONS				
LTR	DESCRIPTION	PREPD BY	DATE	APPROVED
A	REVISED AS BUILT	D.B.	4/28/86	D.B.



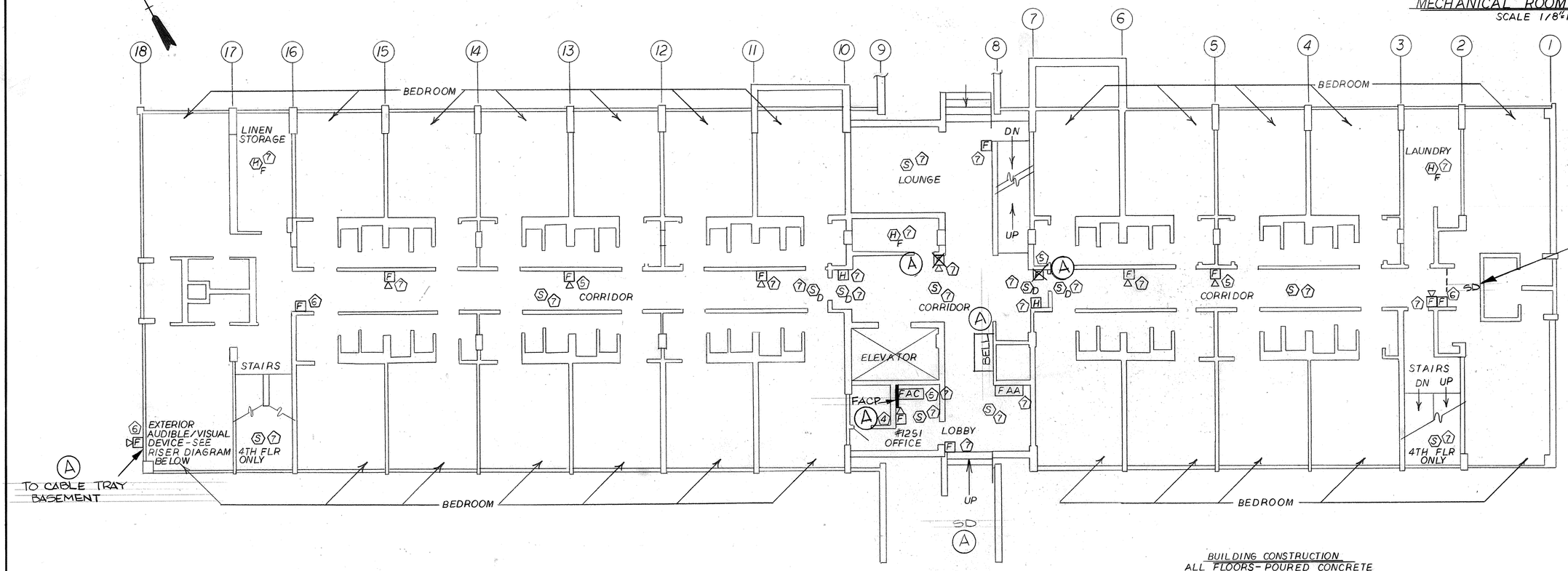
TYPICAL SECTION THRU BEDROOMS OF BLDG.
SCALE 1/8"=1'-0"



2ND 3RD & 4TH FLOORS - BLDG. NO. 172
SCALE: 1/8"=1'-0", DIFFERENT FROM 1ST FLOOR
AREA COLUMN 1-6 AND 10-18 SIMILAR TO 1ST FLR



MECHANICAL ROOM PLAN - BLDG. 172 - BASEMENT
SCALE 1/8"=1'-0"



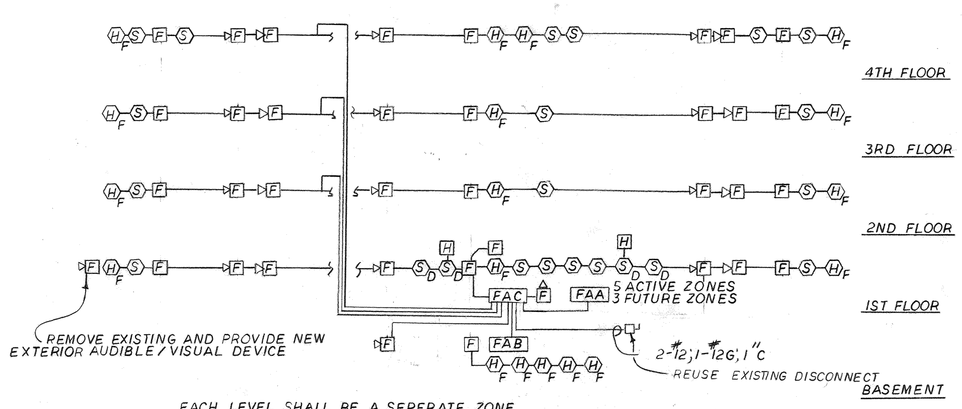
A
REVISED WIRING OF BELLS AND ALARM CIRCUITS TO MAINTAIN SUPERVISED CKTS
HALL SMOKE TOTAL TO MEET CODE

A
ADD SMOKE DETECTOR TO TO 1, 2, 3, AND BEHIND DOORS NOTED

FIRST FLOOR PLAN - BLDG NO. 172
SCALE: 1/8"=1'-0"

BUILDING CONSTRUCTION
ALL FLOORS - POURED CONCRETE
ALL WALLS - BLOCK MASONRY
CEILINGS - CONCRETE

ABOVE AND WIRED THRU EACH EXISTING MANUAL STATION IS A RED 120V AC LIGHT FIXTURE. COMPLETELY REMOVE LIGHT AND WIRING AND COVER WITH A BLANK PLATE OF THE PROPER SIZE, PAINTED TO MATCH THE ADJACENT WALL.



EACH LEVEL SHALL BE A SEPERATE ZONE
PROVIDE A GREEN INSULATED CONDUCTOR (GROUND WIRE) IN ALL NEW BRANCH CIRCUITS

FIRE ALARM RISER DIAGRAM

ALL WIRING SHALL BE IN EXPOSED E.M.T., VERTICAL RISERS SHALL BE CONCEALED IN CLOSETS WHEN POSSIBLE.

GRAPHIC SCALES
1/8"=1'-0" 10 8 6 4 2 0 10' 20' 30'

CHECK GRAPHIC SCALES BEFORE USING

SATISFACTORY TO DATE

LEE F. CARROLL, P.E.
ELECTRICAL CONSULTANTS
GORHAM, N.H. 03581

DSGN EJG DR KIM CHK LFC
SUPV CH ENGR
SUBMITTED BY
FIRM MEMBER
NORTHDIV HD
DM HD
FPE DIR
APPROVED DATE
OFFICER IN CHARGE
APPROVED DATE
NORTHDIV FOR COMMANDER NAVFAC

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
NORTHERN DIVISION
NAVAL BASE PHILADELPHIA, PA

N.E.T.C. NEWPORT, R.I.
SMOKE DETECTORS-VARIOUS BLDGS.
(172, 442, 443, 444, 678, 685, 18)
PLANS AND DETAILS-UOPH 172

SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.
F	80091	2065726

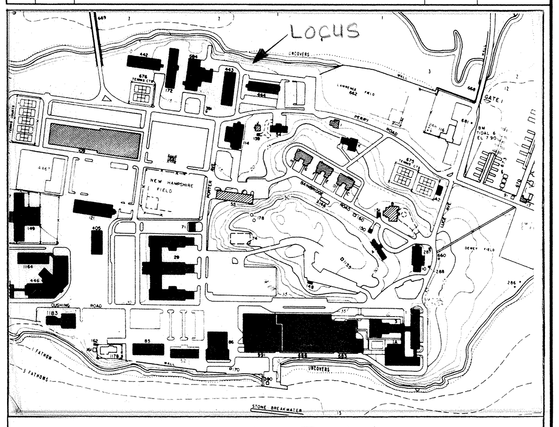
CONSTR. CONTR. NO. N62472-81-C-0347
SCALE NOTED | SPEC. 04-81-0347 | SHEET E-20 OF 9

NETC DWG. NO. 25880-255

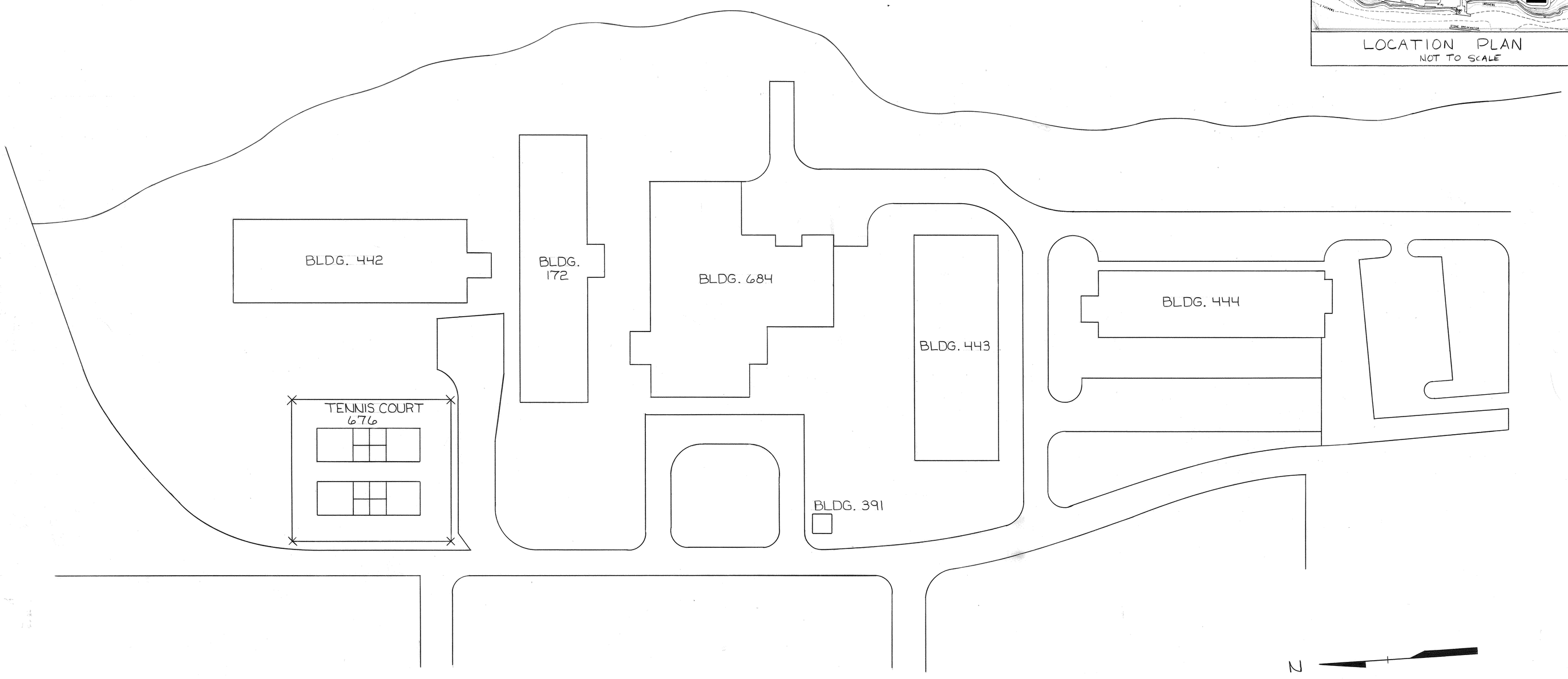
NOTES:

BLDG. 442 – 6 FLOORS, 123 ROOMS
BLDG. 172 – 4 FLOORS, 99 ROOMS
BLDG. 684 – 1 FLOOR, OFFICES AND CAFETERIA
BLDG. 443 – 6 FLOORS, 123 ROOMS
BLDG. 444 – 6 FLOORS, 106 ROOMS
BLDG. 391 IS NOT INCLUDED IN THIS PROJECT

REVISION				
SYM	ZONE	DESCRIPTION	DATE	APPROVED



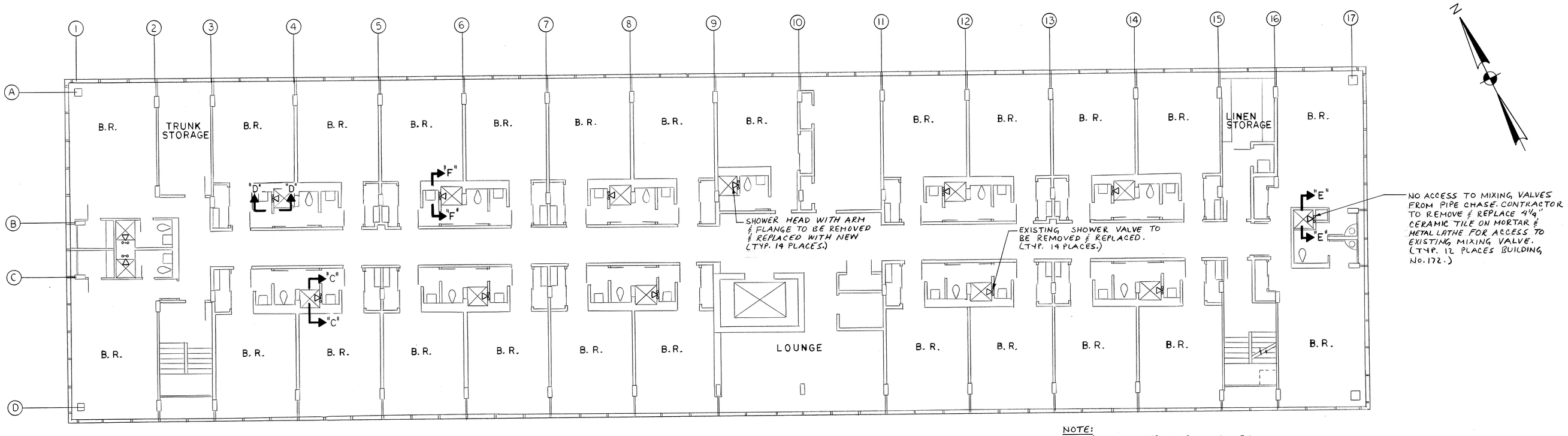
LOCATION PLAN
NOT TO SCALE



33 0 33 66 99 132
GRAPHIC SCALE IN FEET

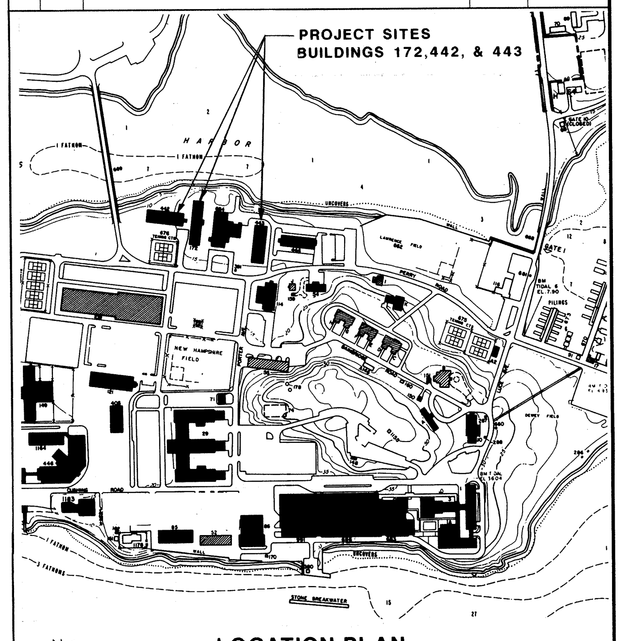
NETC DWG. NO. / NETC SK. NO. 26585-264	DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND **NAVAL EDUCATION AND TRAINING CENTER** **NEWPORT, RHODE ISLAND**
DSGN.	
DR. STEVE TRINDADE	COASTERS HARBOR ISLAND
BR.	SITE PLAN FOR BLDGS.
DIR.	444, 443, 442, 684 AND 172
APPROVED DATE	
SATISFACTORY TO	SIZE: F; CODE IDENT NO.: 80091; NAVFAC DRAWING NO.: 2112630
DATE	~~CONSTR.~~ CONTR. NO.: 2661-4-88-85500
	SCALE: NOTED; SPEC.; SHEET 1 OF 2

REVISION				
SYM	ZONE	DESCRIPTION	DATE	APPROVED

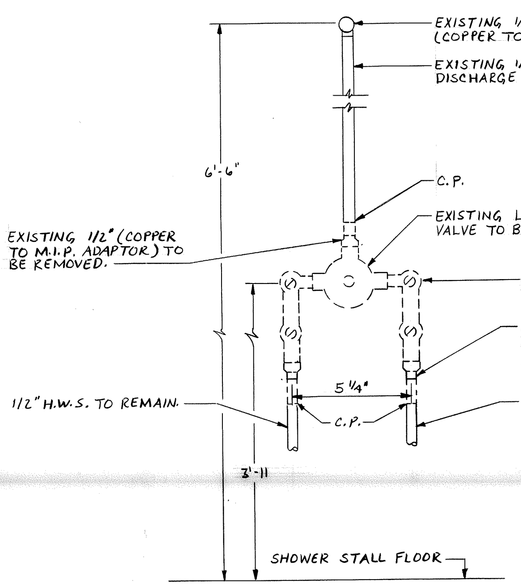


NOTE:
HOT & COLD WATER RISER SHUT-OFF VALVE IN CRAWL SPACE BELOW 1st FLOOR.

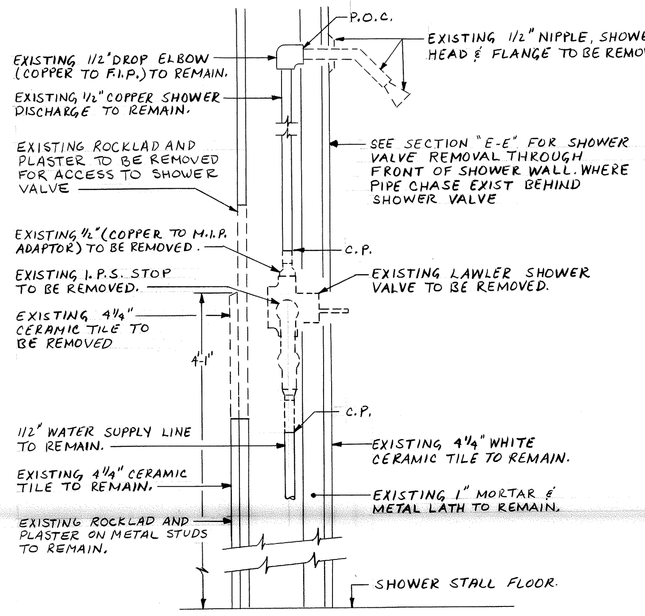
TYPICAL FIRST THRU FOURTH FLOORS
BUILDING 172
SCALE: 1/8"=1'-0"



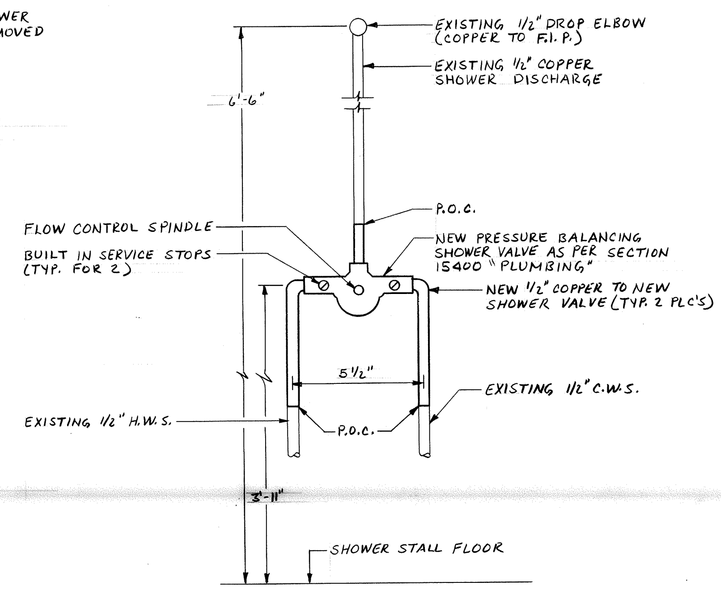
LOCATION PLAN
NO SCALE



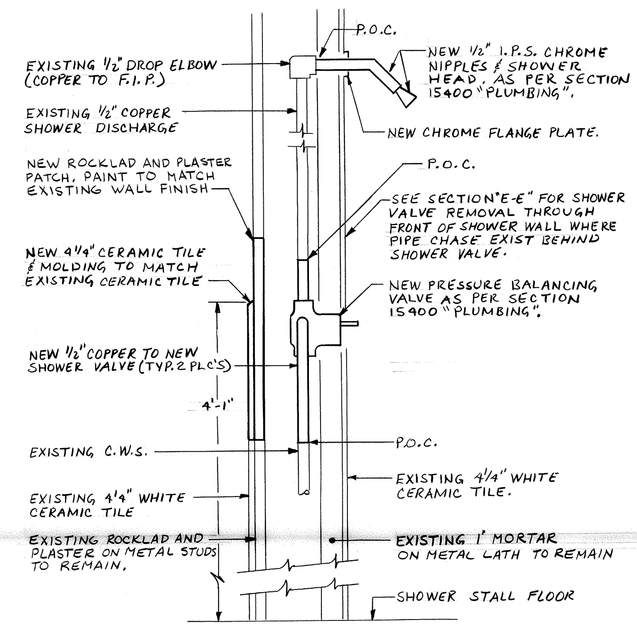
SECTION "C-C"
SCALE: 3" = 1'-0"



SECTION "D-D"
SCALE: 3" = 1'-0"



SECTION "C-C"
SCALE: 3" = 1'-0"

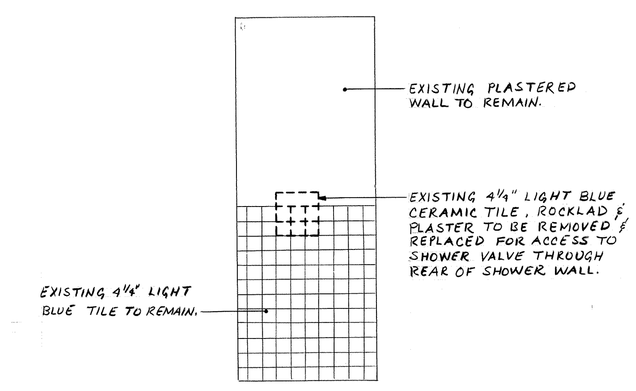


SECTION "D-D"
SCALE: 3" = 1'-0"

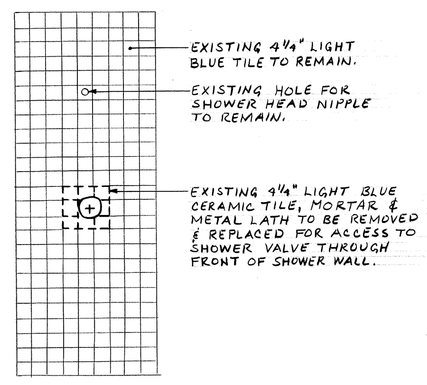
LEGEND

————	EXISTING WORK
————	NEW WORK
- - - - - -	WORK TO BE REMOVED
P.O.C.	POINT OF CONNECTION
C.P.	CUT POINT
C.W.S.	COLD WATER SUPPLY
H.W.S.	HOT WATER SUPPLY
BR	BEDROOM
M.I.P.	MALE IRON PIPE
F.I.P.	FEMALE IRON PIPE
I.P.S.	IRON PIPE SIZE
△	SHOWER VALVE & HEAD
O—O	SHOWER MIXING VALVE

DEMOLITION WORK - BUILDING 172



SECTION "F-F"
SCALE: 1/2" = 1'-0"



SECTION "E-E"
SCALE: 1/2" = 1'-0"

NEW WORK - BUILDING 172

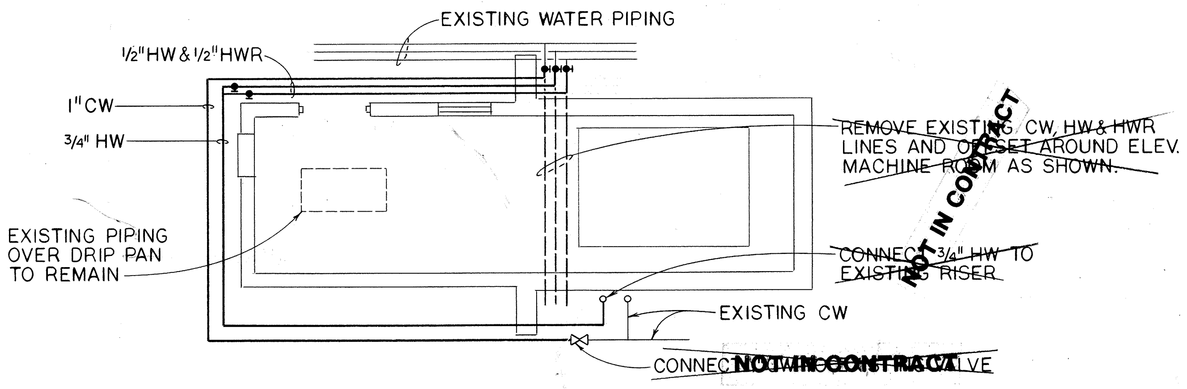
GRAPHIC SCALES

1/8" = 1'-0" 0 5' 10' 15' 20' 25' 30'

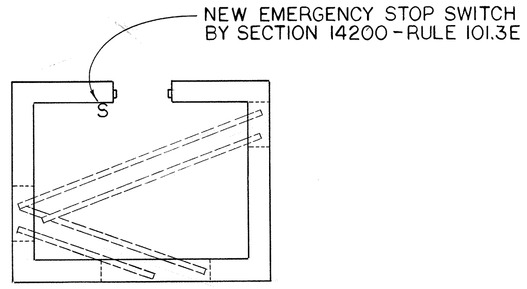
1/2" = 1'-0" 0 1' 2' 3' 4' 5' 6' 7' 8'

DANIEL C. RAICHE
No. 1472
REGISTERED PROFESSIONAL ENGINEER

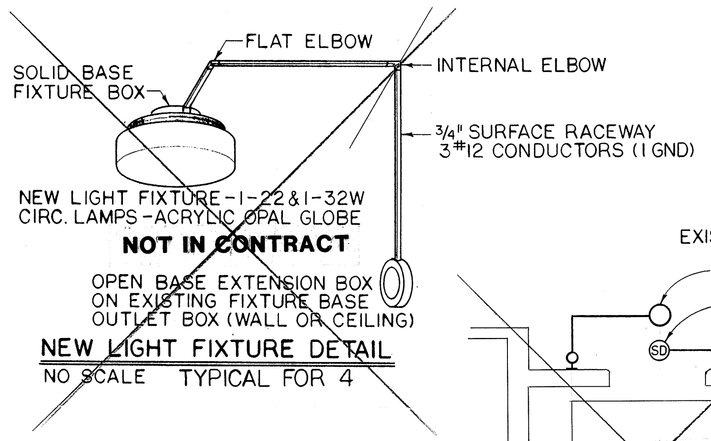
NETC DWG. NO. 27464-270	DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
NETC SK. NO.	NAVAL EDUCATION AND TRAINING CENTER NEWPORT, RHODE ISLAND
DSGN S.B.	
DR. R.A.	REPLACE SHOWERS IN BUILDING NOS. 172,442,443, & 447 BUILDING 172 FLOOR PLANS AND SECTIONS DEMOLITION AND NEW WORK PLUMBING
BR.	
DIR.	
APPROVED / DATE 6-12-89	
SATISFACTORY TO / DATE 6-1-89	SIZE F · CODE IDENT NO. 80091 · NAVFAC DRAWING NO. 2,096,172
	CONSTR. CONTR. NO. N62472-89-C-1611
	SCALE AS NOTED · SPEC. 04-89-1611 · SHEET 2 OF 3



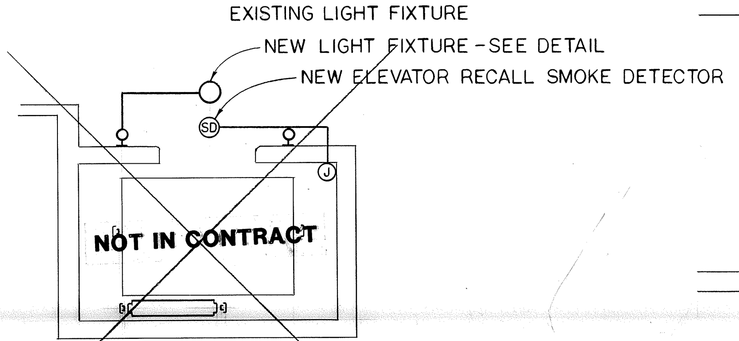
BASEMENT MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



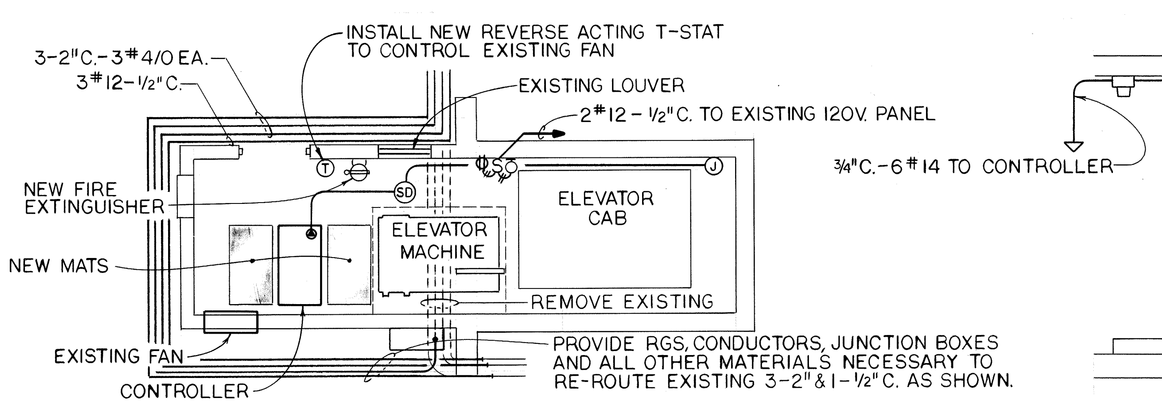
SHEAVE ROOM PLAN
SCALE: 1/4" = 1'-0"



NEW LIGHT FIXTURE DETAIL
NO SCALE TYPICAL FOR 4

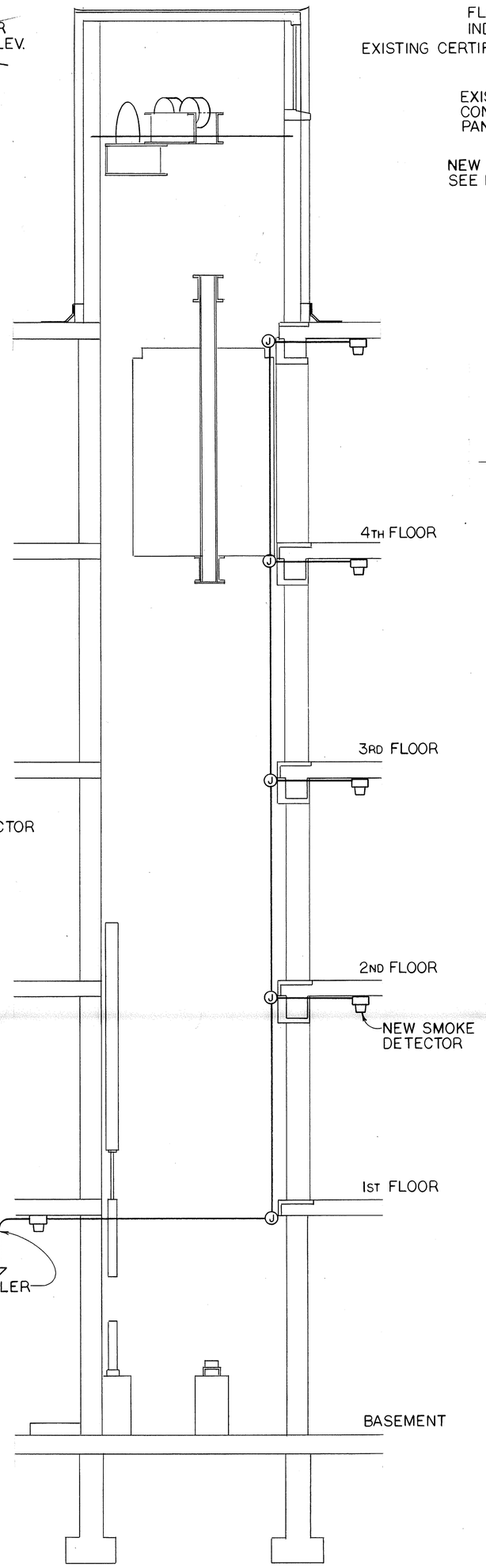


TYPICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"

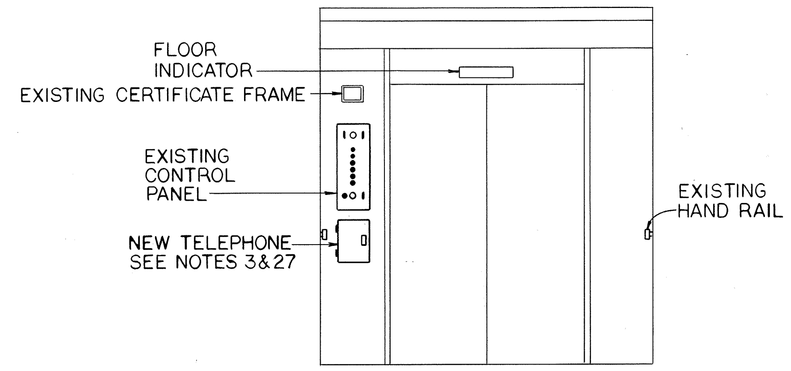


BASEMENT PLAN
SCALE: 1/4" = 1'-0"

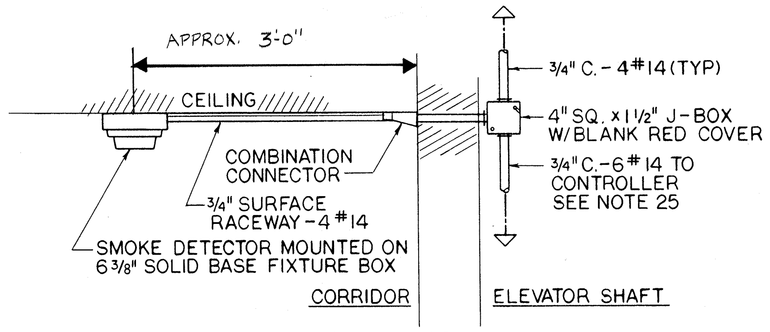
BLDG./ELEV. NO. 172
PASSENGER TYPE - 3500LBS. - 300FPM
MFG. - PAYNE NO. 107485
4 FLOORS - 4 STOPS - FRONT
CAR PLATFORM INSIDE:
4'-8" x 7'-8 1/2" - AREA: 35.7 S.F.
CAR DOOR OPENING - 4'-6"
HORIZONTAL SLIDING DOORS
TYPE OF MACHINE - W.G.T.



SECTION THRU SHAFT
SCALE: 1/4" = 1'-0"



FRONT INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



SMOKE DETECTOR DETAIL
NO SCALE TYPICAL FOR 5

SCOPE OF WORK

1. ELEVATORS 172, 442, 444 AND 678
RULE 112.5: PROVIDE A SOLID STATE LIGHT RAY DEVICE PROJECTING AT LEAST TWO RAYS AT 5-INCH AND 29-INCH HEIGHTS ACROSS THE CAR ENTRANCE IN THE SPACE BETWEEN THE CAR AND THE HORIZONTAL SLIDING HOISTWAY DOORS.

2. ~~ELEVATOR 443~~
RULE 112.5: ~~REPAIR EXISTING LIGHT RAY DEVICE.~~ NOT IN CONTRACT

3. ELEVATORS 172, 442, 443, 444 AND 678
RULE 211.1(2): PROVIDE TWO-WAY COMMUNICATION BETWEEN EACH ELEVATOR AND A POINT OUTSIDE THE HOISTWAY, CONSISTING OF A TELEPHONE HANDSET, INTEGRAL CABINET IN THE CAR OPERATING PANEL AND WIRED CONNECTION TO THE BUILDING TELEPHONE SYSTEM(S).

4. INSTALL AUTO DIALER, WIRING TO CAR, CAR HANDSET AND CONDUIT TO BLDG'S TELEPHONE CABLE ENTRANCE CABINET

5. ~~ELEVATORS 172, 442, 443, 444 AND 678~~
RULE 1206.2F: ~~PROVIDE A 2½ LB. CLASS "C" FIRE EXTINGUISHER IN EACH MACHINE ROOM, WALL MOUNTED CONVENIENT TO THE ACCESS DOOR, CONFORMING TO THE REQUIREMENTS OF NFPA 10.~~ NOT IN CONTRACT

6. ELEVATORS 172 AND 678
NFPA 72E: PROVIDE A SMOKE DETECTOR AT THE TOP OF EACH HOISTWAY CONNECTED TO THE EXISTING BUILDING FIRE ALARM SYSTEM AT THE NEAREST EXISTING MANUAL OF AUTOMATIC DETECTOR.

7. ELEVATORS 444
RULE 106.1E: PROVIDE A LIGHTING FIXTURE, SWITCH AND CONVENIENCE OUTLET IN EACH ELEVATOR PIT, LOCATE ADJACENT TO THE EXISTING PIT STOP SWITCH.

8. ~~ELEVATORS 442 AND 678~~
RELOCATE THE EXISTING ~~PIT LIGHT SWITCH TO THE PRESENT PIT STOP~~ SWITCH. NOT IN CONTRACT

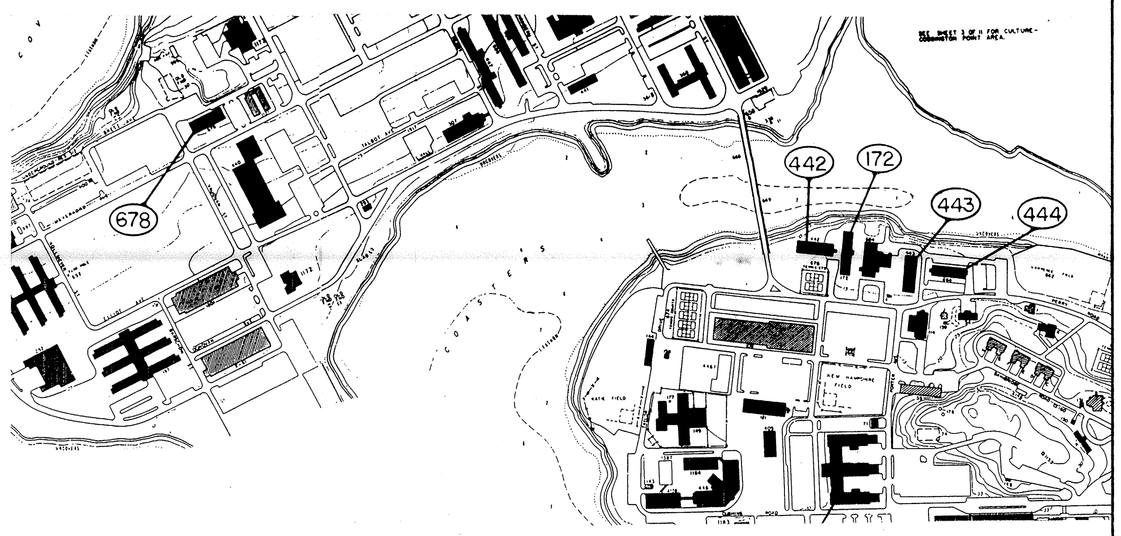
9. ELEVATORS 172 AND 442
RULE 111.10: PROVIDE UNLOCKING DEVICES FOR ALL HOISTWAY DOORS.

10. ELEVATOR 172
RULE 101.3E: PROVIDE A STOP SWITCH IN THE OVERHEAD MACHINERY SPACE.

11. ELEVATORS 442, 443 AND 444
RULE 211.3, 3A, 3B, 3C: PROVIDE FIRE FIGHTERS SERVICE FOR EACH ELEVATOR.

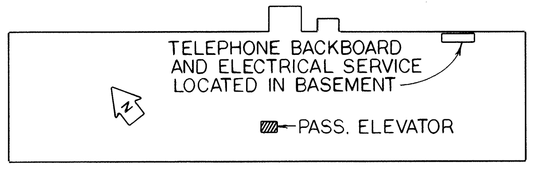
12. ~~ELEVATORS 442, 443, 444 AND 678~~
~~RULE 101.3D (1), (B), (C) AND (D): MODIFY EACH ACCESS DOOR TO MACHINE ROOMS TO BE SELF-CLOSING AND SELF-LOCKING AND EQUIPPED WITH A SPRING-TYPE LOCK ARRANGED TO PERMIT THE DOORS TO BE OPENED FROM THE INSIDE WITHOUT A KEY.~~ NOT IN CONTRACT

SEE SHEET 2 FOR CONTINUATION



LOCATION PLAN - PROJECT M

5 4 3 2 1 0 5 10
GRAPHIC SCALE



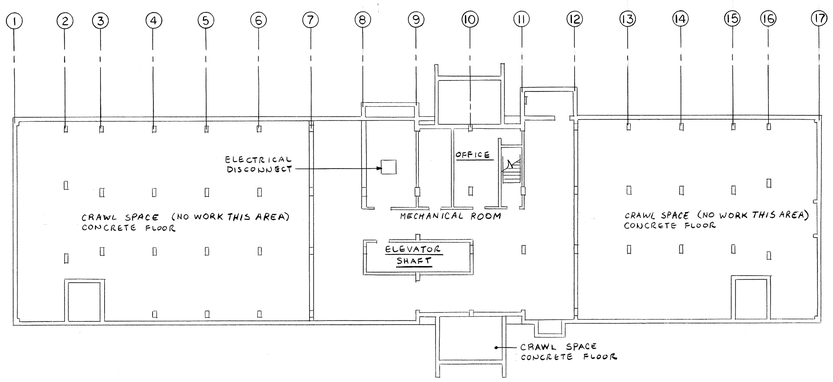
KEY PLAN

JOHN P. LEGNOS
No. 2356
REGISTERED
PROFESSIONAL ENGINEER

LEGNOS AND CRAMER, INC.
CONSULTING ENGINEERS
248 FARMINGTON AVE. - HARTFORD, CT. 06105

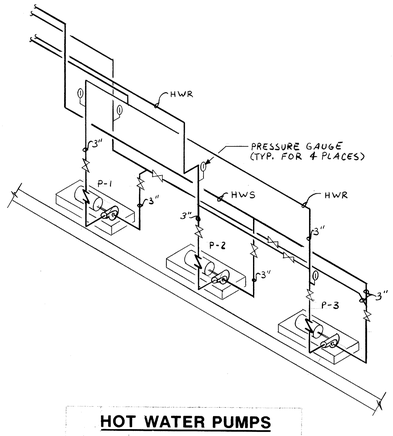
NETC DWG. No. 27547-271 NETC SK. No.	Department of the Navy — Naval Facilities Engineering Command NAVAL EDUCATION AND TRAINING CENTER NEWPORT, RHODE ISLAND	
DSGN: PFC DR: RJH BR:	ELEVATOR MODIFICATIONS BLDG. 172	
DR: PFC 6/1/89 APPROVED: DATE 6-14-89		
SATISFACTORY TO: 5/17/89 DATE: 5/17/89	SIZE F / CODE IDENT. No.	NAVFAC DRAWING No. 2122380
	SCALE	CONST. CONTR. No N62472-88-C-1629 SPEC: / SHEET 1 OF 4

23 MAR 89



BASEMENT PLAN

SCALE: 1/16"=1'-0"



HOT WATER PUMPS

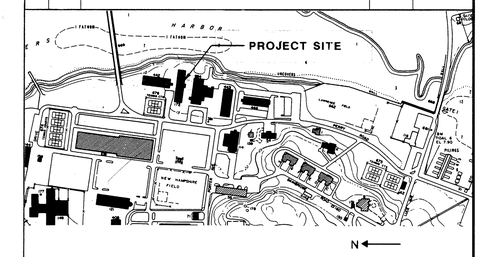
ISOMETRIC SECTION "A-A"

NO SCALE

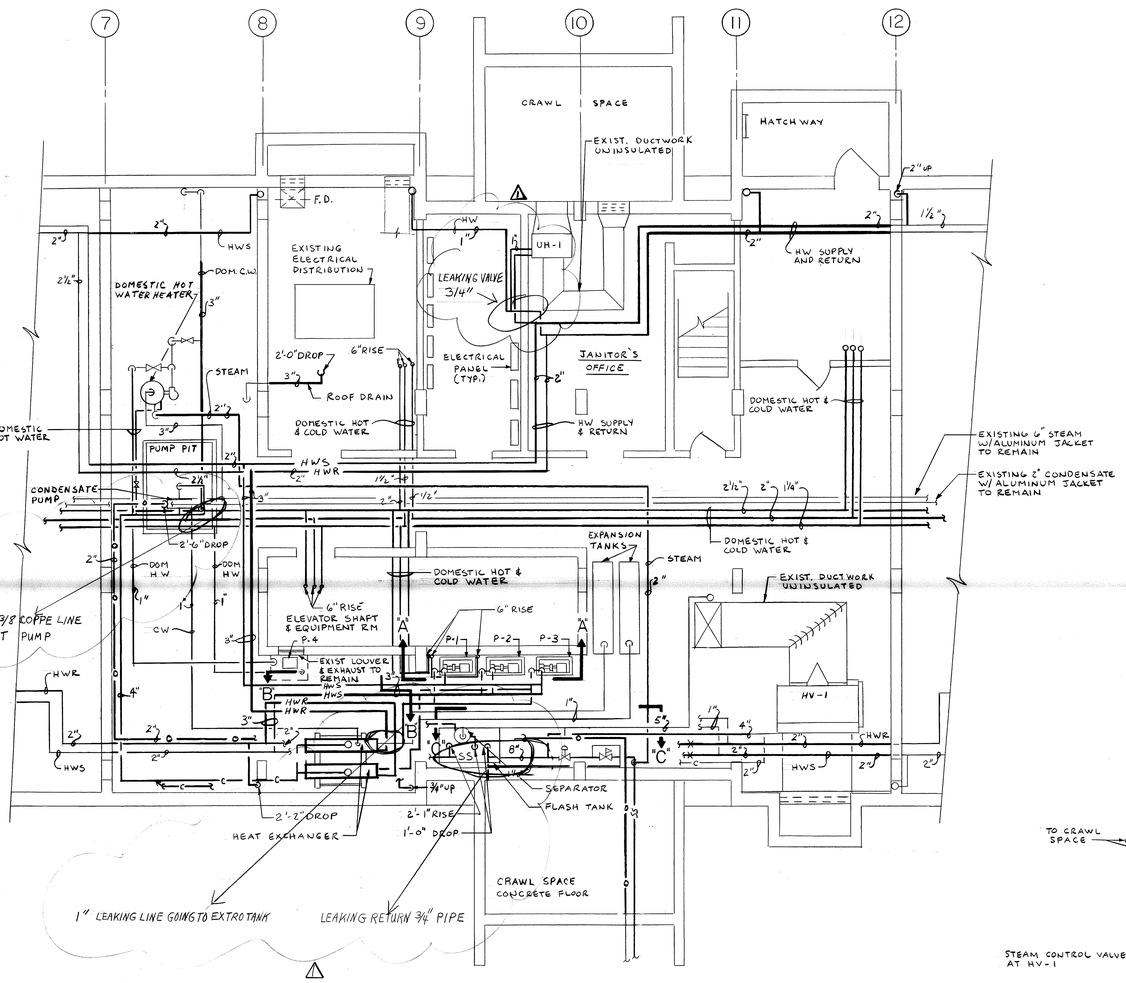
EXISTNG PIPING INSULATION THICKNESS (INCHES) SCHEDULE BUILDING NO. 172					
	TUBE AND PIPE SIZE (INCHES)				
SERVICE	1/4 - 1 1/4	1 1/2 - 3	3 1/2 - 8	EQUIPMENT	
DOMESTIC WATER (HOT OR COLD)	1.0	1.0	-----	-----	
HEATING HOT WATER	1.0	1.0	1.5	-----	
CONDENSATE RETURN (201 F TO 250 F)	1.0	1.5	2.0	-----	
STEAM PIPING (251 F TO 351 F)	1.0	2.0	2.5	----	
ROOF DRAINS	-----	1.0	-----	-----	
HEAT EXCHANGERS	-----	-----	-----	2.0	
EXPANSION TANKS	-----	-----	-----	NONE	
AIR SEPERATOR	-----	-----	-----	2.0	

REVISION

SYM	ZONE	DESCRIPTION	DATE	APPROVED
1		ASBUILT 6-11-91	1-27-98	MD.

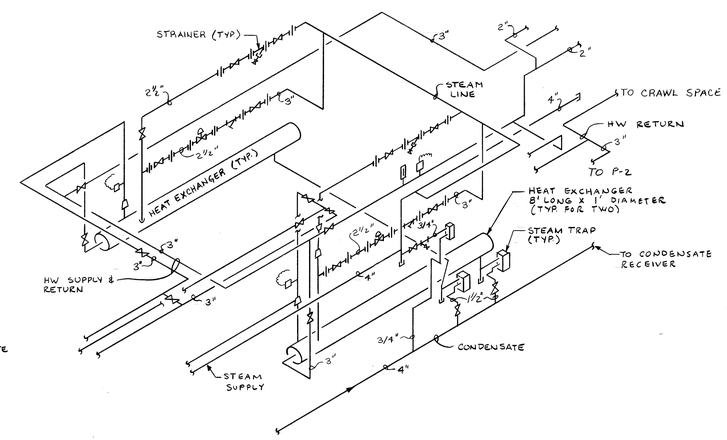


LOCATION PLAN



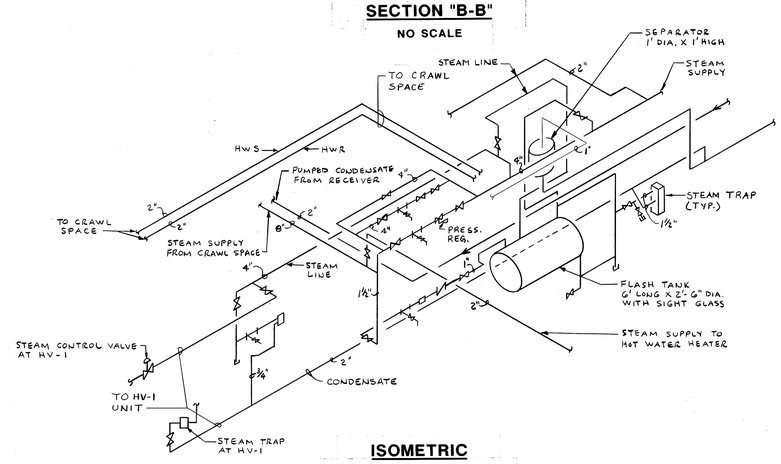
MECHANICAL ROOM

SCALE: 3/16"=1'-0"



ISOMETRIC SECTION "B-B"

NO SCALE



ISOMETRIC SECTION "C-C"

NO SCALE

LEGEND

———	ASBESTOS INSULATION ON EXISTING PIPING TO BE REMOVED & NEW INSULATION TO BE INSTALLED
———	EXISTING TO REMAIN
SS	STEAM SUPPLY
C	CONDENSATE
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
F.D.	FIRE DAMPER
O	CONDENSATE PUMP DISCHARGE
P-1	HOT WATER PUMP
HV-1	HEATING VENTILATING UNIT
	BALANCING VALVE
	CONTROL VALVE
	GATE VALVE
	UNION
	THERMOMETER
	CONTROL SENSOR

GENERAL NOTES

1. ALL ASBESTOS INSULATION REMOVED SHALL BE REPLACED WITH NEW INSULATION AS SPECIFIED.
2. CONTRACTOR TO VERIFY IN FIELD WITH CONTRACTING OFFICER THE EXACT LOCATION OF ASBESTOS INSULATION.
3. ALL EXISTING ASBESTOS PIPE INSULATION SHALL BE REMOVED AS SPECIFIED IN SECTION 02080 "REMOVAL AND DISPOSAL OF ASBESTOS MATERIALS".
4. ALL EXISTING STRAINERS AND VALVES SHALL BE INSULATED AS SPECIFIED.
5. ALL WORK SHALL BE SCHEDULED AND COORDINATED WITH THE CONTRACTING OFFICER TO AVOID INTERFERENCE WITH NORMAL WORK SCHEDULE OF OCCUPANTS.
6. MECHANICAL ROOM SHALL BE CLEANED AND VACUUMED IN ACCORDANCE WITH SECTION 02080 "REMOVAL AND DISPOSAL OF ASBESTOS MATERIAL".
7. **CONTRACTOR TO VERIFY ALL FIELD CONDITIONS, INCLUDING** LOCATION OF EXISTING PIPING AND VALVES TO BE INSULATED, BEFORE STARTING WORK.
8. INSULATION OF EXISTING DUCTWORK NOT REQUIRED UNDER THIS CONTRACT.
9. ELEVATOR MACHINE ROOM - SEAL AND SECURE EXISTING EXHAUST FAN AND LOUVER. SECURE ELEVATOR AND PROVIDE FULL CONTAINMENT TECHNIQUES FOR ELEVATOR MECHANICAL ROOM AND ELEVATOR SHAFT TO GUARANTEE THAT ASBESTOS CONTAMINATION WILL BE CONTAINED IN THE ASBESTOS CONTROL AREA AND NOT INFILTRATE OCCUPIED AREAS CONNECTED BY EXISTING ELEVATOR SHAFT.
10. EXISTING HEATING AND DOMESTIC HOT WATER SYSTEMS - ASBESTOS REMOVAL WORK WILL BE ALLOWED BETWEEN 8:00 AM AND 4:30 PM.
11. BUILDING SHALL BE OCCUPIED DURING THE CONTRACT PERIOD.

GRAPHIC SCALES

1/16" = 1'-0" 0 5' 10' 20' 30' 40' 50' 60'

1/4" = 1'-0" 0 5' 10' 15'

DANIEL C. RAICHE No. 11472 REGISTERED PROFESSIONAL ENGINEER

NETC DWG. NO. / NETC SK. NO.	27654-272
DSGN	R.P.D.
DR.	R.B.
BR.	
DIR	
APPROVED	DATE
SATISFACTORY TO	
DATE	

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND

NAVAL EDUCATION AND TRAINING CENTER
NEWPORT, RHODE ISLAND

ASBESTOS REMOVAL IN BUILDING NO. 172

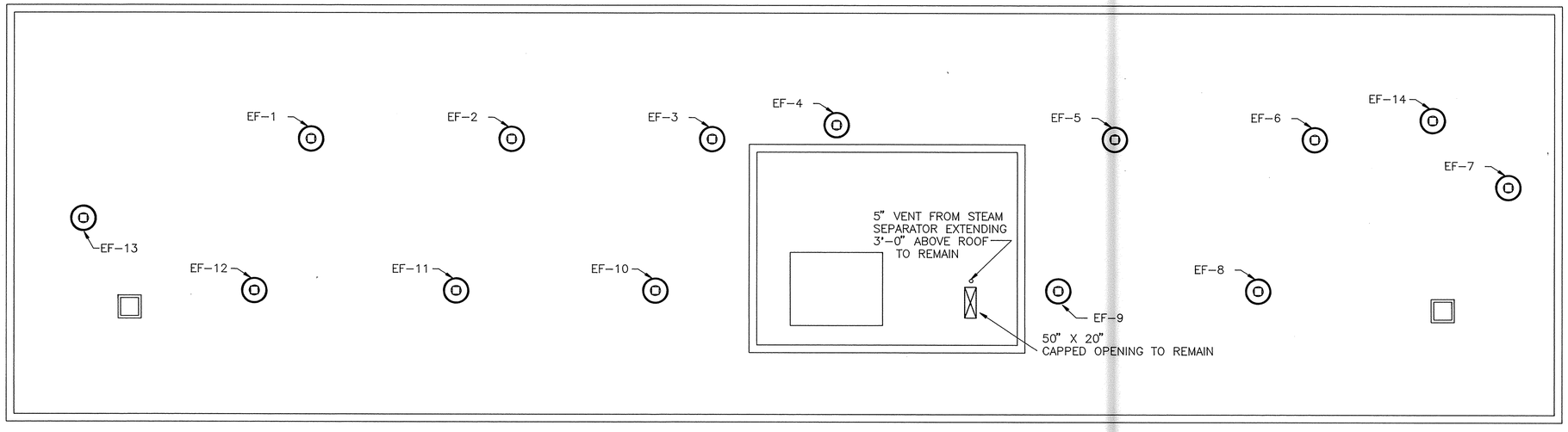
PLANS AND DETAILS

MECHANICAL

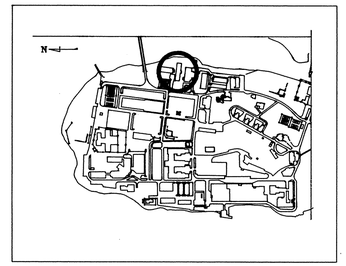
SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.
F	80091	2,133,567
SCALE: AS NOTED		CONSTR. CONTR. NO. N62472-91-C-16
		SHEET 1 OF 1

04-90-1649

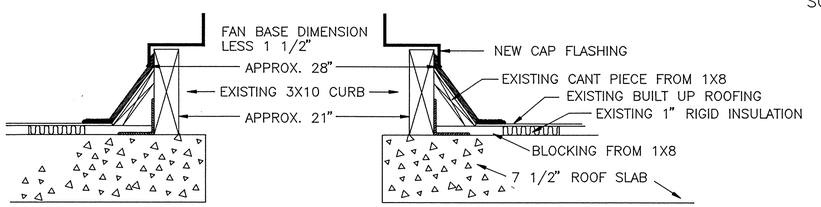
04-91-1616 (eng)



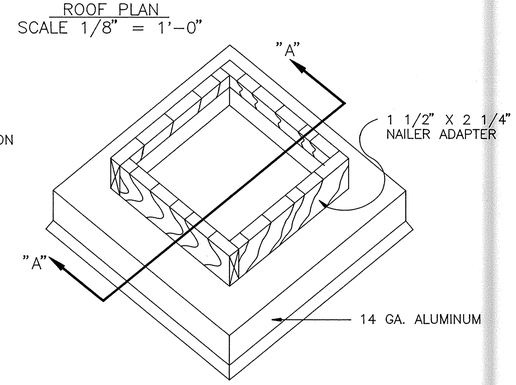
ROOF PLAN
SCALE 1/8" = 1'-0"



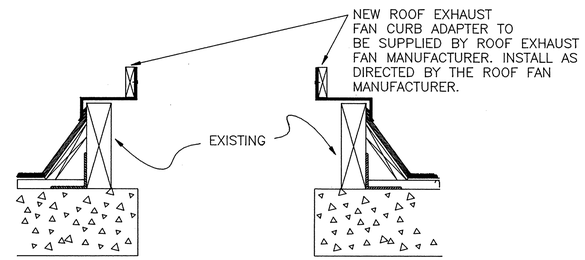
LOCATION PLAN



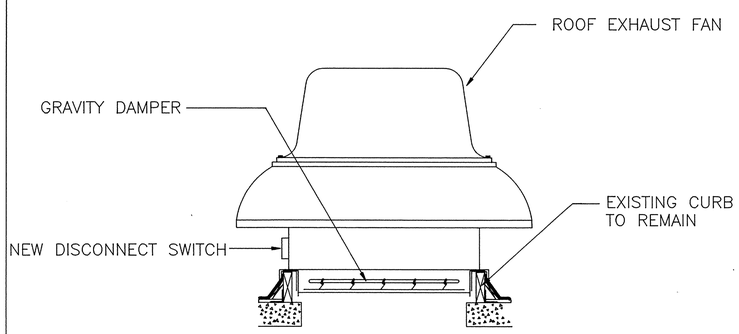
SECTION THRU ROOF
AT EXHAUST FANS
NO SCALE



ROOF CURB ADAPTER DETAIL
PLAN VIEW
NOT TO SCALE



SECTION A-A



FAN REPLACEMENT DETAIL
NOT TO SCALE

NOTES:
1. REMOVE EXISTING EXHAUST FAN AND DAMPER AND PROVIDE NEW FAN AND GRAVITY DAMPER ON EXISTING CURB.
2. CONTRACTOR SHALL PROVIDE ROOF CURB ADAPTOR WHERE REQUIRED TO ACCOMODATE THE DIMENSIONS OF THE ROOF EXHAUST FAN PROVIDED BY THE CONTRACTOR.

EXISTING EXHAUST FAN SCHEDULE

SYMBOL	LOCATION	CFM	S.P.	RPM	HP	VOLTS PHASE	DRIVE	ROOF O'PNG	REMARKS
EF-1	ROOF	600	1/4"	800	1/12	110/1	DIRECT	17" X 17"	CENTRIFUGAL WITH BACK DRAFT DAMPERS
EF-2									
EF-3									
EF-4									
EF-5									
EF-6									
EF-7									
EF-8									
EF-9									
EF-10									
EF-11									
EF-12		600						17" X 17"	
EF-13		1200			1/4			24" X 24"	
EF-14	ROOF	600	1/4"	800	1/12	110/1	DIRECT	17" X 17"	CENTRIFUGAL WITH BACK DRAFT DAMPERS

GENERAL NOTES

1. PROVIDE ROOF EXHAUST FANS AS INDICATED ON THE DRAWING AND LISTED ON THE SCHEDULE. THE NEW EXHAUST FANS SHALL HAVE THE SAME OPERATING CAPACITIES AND ELECTRICAL CHARACTERISTICS AS SHOWN ON THE "EXISTING EXHAUST FAN SCHEDULE".
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL ELECTRICAL AND STRUCTURAL MODIFICATIONS TO ACCOMODATE NEW FANS.
3. PROVIDE NEW 3 #12 THWN WIRING IN LIQUID TIGHT FLEXIBLE CONDUIT BETWEEN THE JUNCTION BOX ON THE CURB AND DISCONNECT SWITCH.
4. DO NOT REMOVE THE EXISTING FANS UNTIL NEW EQUIPMENT IS DELIVERED TO THE JOB SITE.
5. PROVIDE TEMPORARY COVERS TO PROTECT INTERIOR OF THE BUILDING FROM INCLEMENT WEATHER.

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

DSGN. AL STAMBLER
DR. R. PAYETTE
BR. HD.
DIV. HD.
APPROVED
DATE

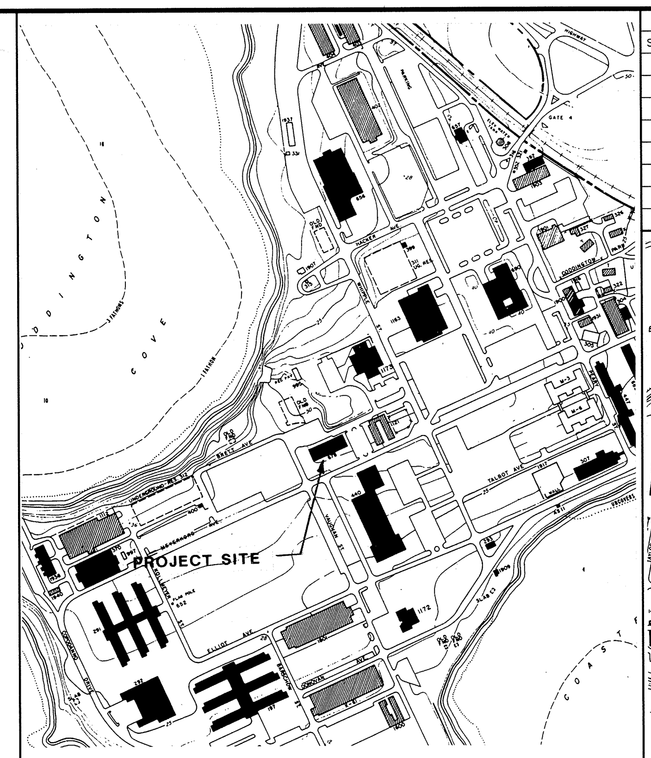
SATISFACTORY TO
DATE 11/15/90

DEPARTMENT OF THE NAVY
NAVAL EDUCATION AND TRAINING CENTER
NEWPORT, R.I.
NAVAL FACILITIES ENGINEERING COMMAND

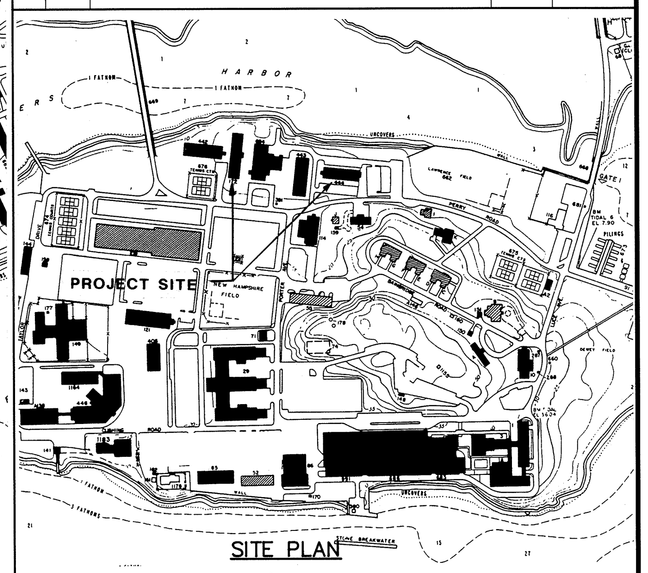
REPLACE EXHAUST FANS
BUILDING 172
COASTERS HARBOR ISLAND

CODE ID. NO. 80091
DRAWING SIZE: D
SCALE: NOTED
CONST. CONTRACT NO. N62472-91-C-1610
SPEC. 91-C-1610
NAVFAC DRAWING NO. 2130602
N.E.T.C. DRAWING NO. 27933-276
SHEET 1 OF 1

INDIVIDUAL HEATING CONTROLS
BUILDING NO.'S 172, 444, AND 678



SITE PLAN
BUILDING NO. 678



SITE PLAN
BUILDING NO.'S 172 AND 444

REVISIONS

SYM	ZONE	DESCRIPTION	DATE	APPROVED

DRAWING LIST

TITLE:	NETC DWG. NO.	NAVFAC DWG. NO.
1. TITLE SHEET	29,302-290	2,149,645
2. DEMOLITION AND REMOVAL AND NEW WORK DETAILS BUILDING NO. 172	29,303-290	2,149,646
3. DEMOLITION AND REMOVAL, NEW WORK, BUILDING NO. 172, MECHANICAL	29,304-290	2,149,647
4. RISER DIAGRAM AND DETAILS BUILDING NO. 172	29,305-290	2,149,648
5. SECTIONS AND DETAILS, BUILDING NO. 172	29,306-290	2,149,649
6. BUILDING NO. 444 FLOOR PLANS MECHANICAL/ELECTRICAL	29,307-290	2,149,650
7. RADIATION RISER DIAGRAM EAST ELEVATION AND DETAILS BUILDING NO. 444	29,308-290	2,149,651
8. RADIATION RISER DIAGRAM WEST ELEVATION AND DETAILS BUILDING NO. 444	29,309-290	2,149,652
9. FIN RADIATION DETAILS AND MECHANICAL ROOM PLAN BUILDING NO. 444	29,310-290	2,149,653
10. BUILDING NO. 678 DEMOLITION AND REMOVAL MECHANICAL	29,311-290	2,149,654
11. HEATING RISER DIAGRAMS EAST AND WEST ELEVATIONS BUILDING NO. 678	29,312-290	2,149,655
12. BUILDING NO. 678 1ST, 2ND, 3RD, 4TH, AND 5TH NEW WORK	29,313-290	2,149,656
13. MECHANICAL ROOM, ELEVATIONS, AND DETAILS MECHANICAL/ELECTRICAL	29,314-290	2,149,657

LEGEND

	NEW WORK
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
T	THERMOSTAT
	MOTORIZED CONTROL VALVE
	DIRECTION OF FLOW
	SHUT-OFF VALVE
	BALANCING COCK
	90° ELBOW
	TEE
S-1	SUPPLY RISER
R-1	RETURN RISER
A	AUTOMATIC AIR VENT
	RADIATION
V	CONTROL VALVE
J	JUNCTION BOX
P.O.C.	POINT OF CONNECTION
C.P.	CUT POINT
	FLOW INDICATOR AND BALANCING VALVE
1A	OPPOSITE HAND DETAIL
1	SEE DETAIL FOR FIN RADIATION
	UNION
A	SEE EXISTING FIN RADIATION SCHEDULE
S	SUPPLY
R	RETURN
R-1	RISER #
	CONTROL VALVE
	CONDUIT AND WIRE RUN

GENERAL NOTES

1. RELATIVE LOCATIONS AND ELEVATIONS OF EXISTING MECHANICAL AND ELECTRICAL FEATURES OF THE BUILDINGS ARE SHOWN IN ACCORDANCE WITH LATEST PLANS AND AVAILABLE ENGINEERING INFORMATION. THE CONTRACTOR SHALL VERIFY EFFECTED BUILDING FEATURES BEFORE COMMENCING WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING, AND PAINTING THE CONTRACTOR SHALL REPAIR DAMAGED SURFACES INCLUDING PAINTING OF DAMAGED COVERS, AS A RESULT OF CONTRACTOR WORK TO MATCH EXISTING.
3. CONTRACTOR TO DRAIN, VENT, AND REFILL HOT WATER SYSTEMS OF BUILDING NO'S. 172, 444, AND 678 AFTER COMPLETION OF ALL MECHANICAL WORK AND PIPING CONNECTIONS.
4. CONTRACTOR SHALL LEAK TEST ENTIRE SYSTEM AFTER PIPING AND MECHANICAL INSTALLATION IN ALL BUILDINGS AND BEFORE INSTALLATION OF PIPE INSULATION WHERE REQUIRED OR INDICATED.
5. ALL WORK SCHEDULES SHALL BE APPROVED BY THE CONTRACTING OFFICER BEFORE COMMENCING WORK TO AVOID INTERFERENCE WITH NORMAL WORK SCHEDULE OR OCCUPANTS AND PROVISIONS FOR NORMAL HEATING, ELECTRICAL, AND MISSCELLANEOUS UTILITY SERVICES.
6. ANY COVERS, PIPING, VALVING, FIN RADIATION OR HARDWARE DAMAGED DURING THE PERFORMANCE OF CONTRACT WORK SHALL BE REPLACEED WITH NEW ITEMS AT NO ADDITIONAL COST TO THE GOVERNMENT.
7. PIPING AS SHOWN IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF RUNS, VALVE LOCATIONS AND CONNECTIONS TO SUIT FIELD CONDITIONS.
8. ALL MATERIALS PROVIDED BY THE CONTRACTOR SHALL BE NEW.
9. CONTRACTOR TO COORDINATE INSTALLATION OF EQUIPMENT TO AVOID INTERFERENCE WITH EXISTING PIPING, ELECTRICAL CONDUITS, STRUCTURAL AND ARCHITECTURAL FEATURES OF THE BUILDING.
10. CONTRACT TO COORDINATE FINAL LOCATION OF ALL THERMOSTATS, CONTROL VALVES, FAN COIL UNITS, COVERS, FIN RADIATION, ETC. WITH CONTRACTING OFFICER FOR FINAL APPROVAL.
11. INSUALTE PIPING UNDE COVER AS SPECIFIED IN SECTION 15250 "INSULATION OF MECHANICAL SYSTEMS" UP TO THE SUPPLY AND RETURN SHUT-OFF VALVES, UNDER COVER, AND AS INDICATED.
12. BEFORE COMMENCING WORK, THE CONTRACTOR SHALL INSPECT ALL EXISTING HOT WATER SYSTEMS FOR LEAKS. CONTRACTOR SHALL NOTIFY CONTRACTING OFFICER OF ANY SYSTEM LEAKS PRIOR TO START OF WORK.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO EXISTING SYSTEMS IF LEAKS OCCUR AFTER OR DURING SYSTEM TEST.
14. CONTRACTOR TO UTILIZE SURFACE METAL RACEWAY FOR ALL ELECTRICAL RUNS EXPOSED IN ROOMS. RACEWAY SHALL BEAR THE LABEL OF THE UNDERWRITER'S LABORATORIES INCORPORATED AND SHALL BE SECURELY SUPPORTED BY MANUFACTURER APPROVED METHODS.
15. CONTRACTOR SHALL PROTECT ALL FURNITURE, WALL FINISHES, CARPETING, TELEVISIONS, OR ELECTRONIC EQUIPMENT, ETC. FROM DAMAGE. ALL ROOM FURNISHINGS MUST REMAIN IN ROOM DURING CONTRACT. ALL FURNISHINGS SHALL BE COVERED WITH 1 LAYER 6 MIL PLASTIC SHEET, FURNISHED BY CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO FURNISHINGS INCLUDING DAMAGE TO FLOORS OR WALLS THAT MIGHT BE CAUSED BY CONSTRUCTION.
16. CONTRACTOR SHALL COVER ALL EXISTING CARPETING WITH 1 LAYER 6 MIL PLASTIC SHEET FURNISHED BY THE CONTRACTOR. IN ADDITION, SUPPLY ONE SHEET OF 3/4" PLYWOOD OVER PLASTIC SHEET WHERE CUTTING AND THREADING, BRAZING, ETC. WILL OCCUR.

E. MICHAEL SWEENEY
No. 4290
REGISTERED PROFESSIONAL ENGINEER

NETC DWG. NO. / NETC SK. NO. 29,302-290
DSGN: R.P.D
DR. R.P.D.
BR. J. Beukema P.E.
DIR.
APPROVED DATE 4/20/92
SATISFACTORY TO Wm J Lebeau
DATE 3-31-92

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
NAVAL EDUCATION AND TRAINING CENTER
NEWPORT, RHODE ISLAND

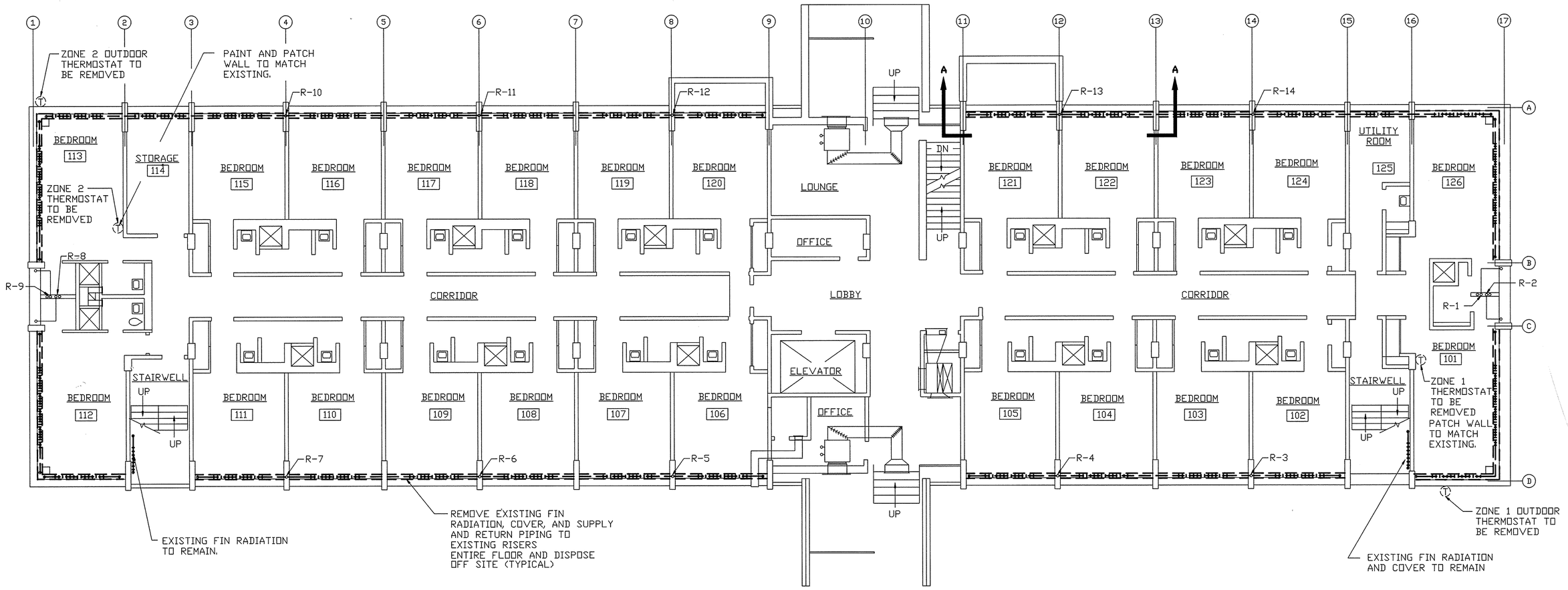
INDIVIDUAL HEATING CONTROLS BLDG. NOS. 172, 444, AND 678

TITLE SHEET

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.
F	80091	2,149,645

CONSTR. CONTR. NO. N62472-91-C-1700
SCALE: AS NOTED — SPEC. 04-91-1700 — SHEET 1 OF 13

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPROVED

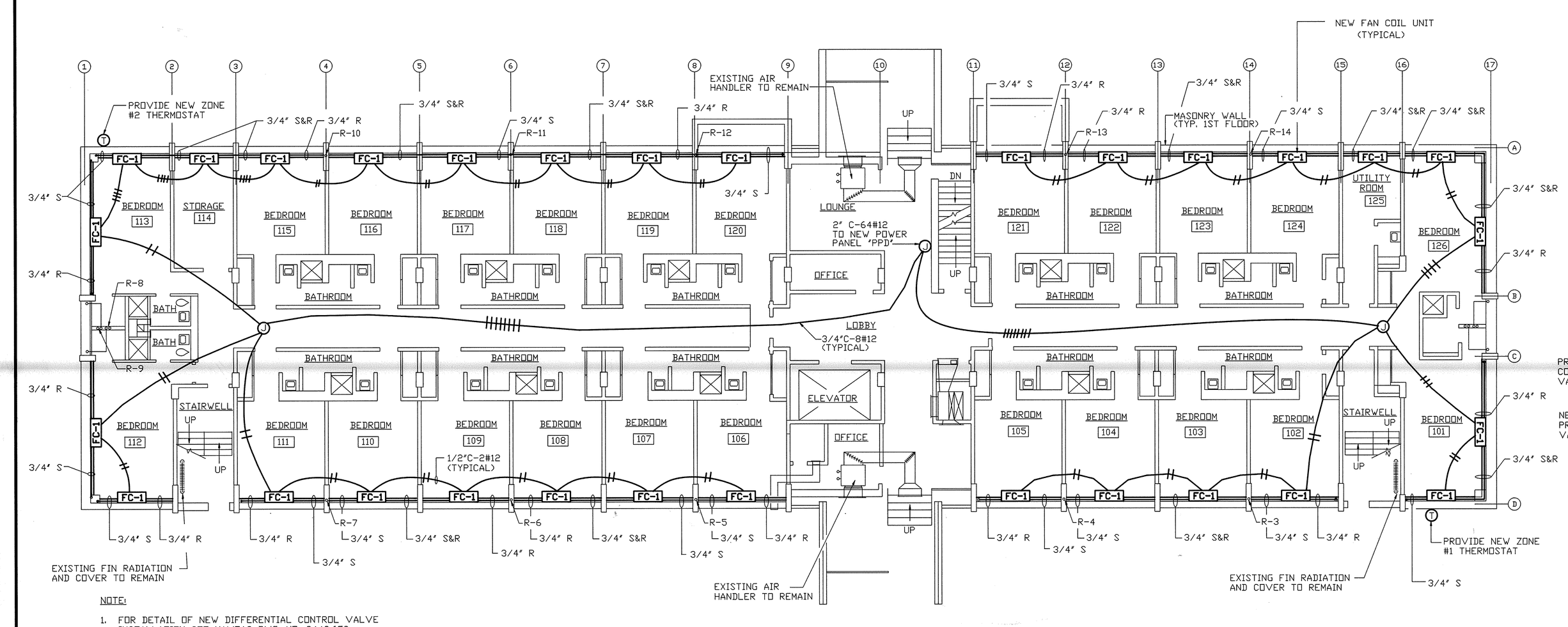


FIRST FLOOR PLAN - DEMOLITION

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

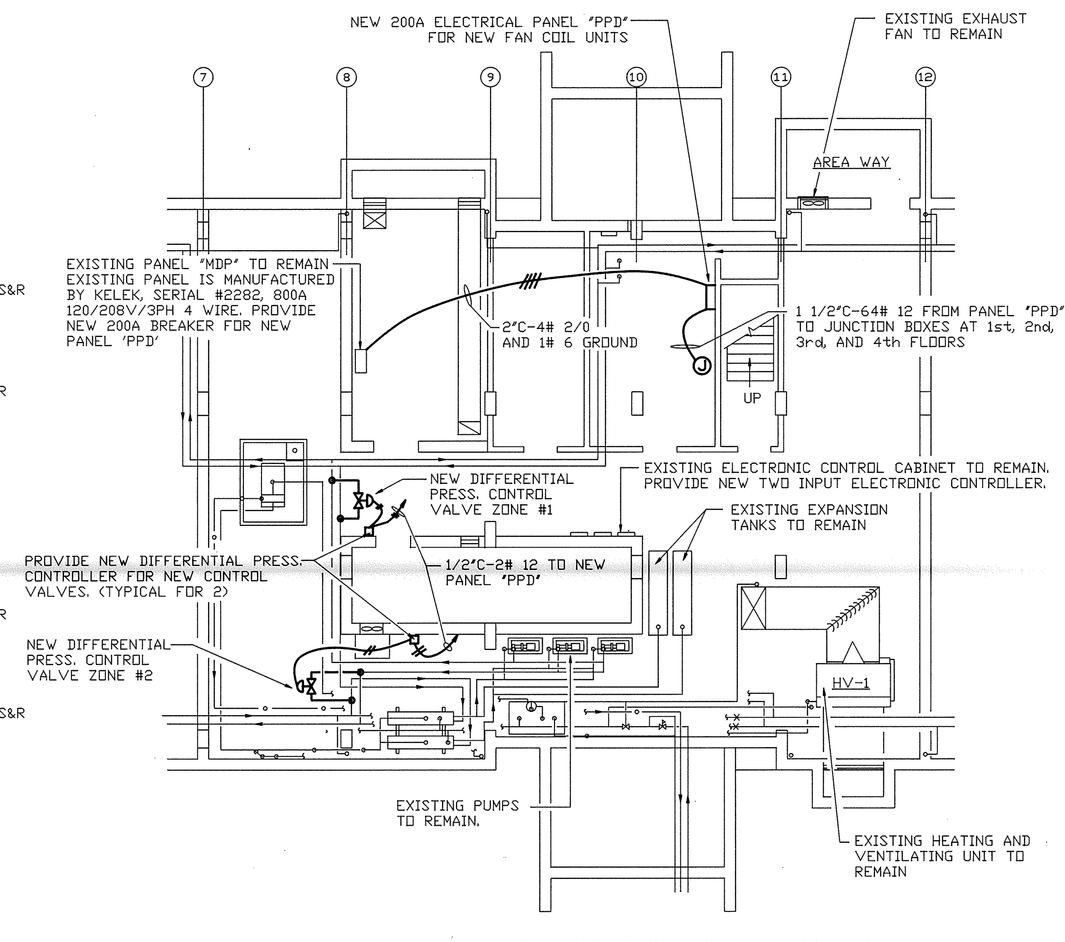
NEW PANEL 'PPD' BUILDING NO. 172
120/208 VOLT 3 PHASE 4 WIRE
LUGS ONLY: 200AMP 15,000 I.C. SYSMETRICAL
LOCATION: BASEMENT AS INDICATED
MOUNTING: FLUSH

CIRCUIT NUMBER	BREAKER POLES	BREAKER AMPERE TRIP	DESCRIPTION	H.P.	KW.	AMPERES A	AMPERES B	AMPERES C	WIRE SIZE	ROOM NUMBERS
1	1	20	FAN COIL UNITS		.75	4.62	4.62	4.62	12	101, 126, 112, 113
2	1	20	FAN COIL UNITS		.625	3.85	3.85	3.85	12	102, 103, 104, 105
3.	1	20	FAN COIL UNITS		.75	4.62	4.62	4.62	12	106, 107, 108, 109, 110, 111
4.	1	20	FAN COIL UNITS		.875	5.39	5.39	5.39	12	114, 115, 116, 117, 118, 119, 120
5.	1	20	FAN COIL UNITS		.625	3.85	3.85	3.85	12	121, 122, 123, 124, 125
6.	1	20	FAN COIL UNITS		.875	5.39	5.39	5.39	12	201, 202, 203, 204, 205, STWELL
7.	1	20	FAN COIL UNITS		.875	5.39	5.39	5.39	12	206, 207, 208, 209, 210
8.	1	20	FAN COIL UNITS		.875	5.39	5.39	5.39	12	211, STRWELL, 212, 213, 214
9.	1	20	FAN COIL UNITS		.875	5.39	5.39	5.39	12	215, 216, 217, 218, 219, 220
10.	1	20	FAN COIL UNITS		.75	4.62	4.62	4.62	12	STRWELL, 222, 223, 224, 225
11.	1	20	FAN COIL UNITS		.375	2.31	2.31	2.31	12	226, 227
12.	1	20	FAN COIL UNITS		.875	5.39	5.39	5.39	12	301, 302, 303, 304, 305, STWELL
13.	1	20	FAN COIL UNITS		.875	5.39	5.39	5.39	12	306, 307, 308, 309, 300
14.	1	20	FAN COIL UNITS		.875	5.39	5.39	5.39	12	311, STRWELL, 312, 313, 314
15.	1	20	FAN COIL UNITS		.875	5.39	5.39	5.39	12	315, 316, 317, 318, 319, 320
16.	1	20	FAN COIL UNITS		.75	4.62	4.62	4.62	12	STRWELL, 322, 323, 324, 325
17.	1	20	FAN COIL UNITS		.375	2.31	2.31	2.31	12	326, 327
18.	1	20	FAN COIL UNITS		.875	5.39	5.39	5.39	12	401, 402, 403, 404, 405, STWELL
18.	1	20	FAN COIL UNITS		.875	5.39	5.39	5.39	12	406, 407, 408, 409, 400
20.	1	20	FAN COIL UNITS		.875	5.39	5.39	5.39	12	411, STRWELL, 412, 413, 414
21.	1	20	FAN COIL UNITS		.875	5.39	5.39	5.39	12	415, 416, 417, 418, 419, 420
22.	1	20	FAN COIL UNITS		.75	4.62	4.62	4.62	12	STRWELL, 422, 423, 424, 425
23.	1	20	FAN COIL UNITS		.375	2.31	2.31	2.31	12	426, 427
24.	1	20	SPARE							
			TOTALS		17.25	105.49	105.49	105.49		



FIRST FLOOR PLAN - NEW WORK

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



PARTIAL BASEMENT FLOOR PLAN

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

GRAPHIC SCALES

1/8"=1'-0" 0 5 10 15 20 25 30

NOTE:

1. FOR DETAIL OF NEW DIFFERENTIAL CONTROL VALVE INSTALLATION SEE NAVFAC DWG. NO. 2,149,653.
2. FOR SCHEMATIC WIRING DIAGRAM OF NEW DIFFERENTIAL CONTROL VALVE SEE NAVFAC DWG. NO. 2,149,648.
3. SEE PANEL SCHEDULE THIS SHEET FOR CIRCUITING OF NEW FAN COIL UNITS.
4. PROVIDE 1#12 GROUND WIRE TO EACH THERMOSTAT AND CONTROL VALVE LOCATION.
5. CORE DRILL REINFORCED CONCRETE FLOORS FOR CONDUIT RUN BETWEEN FLOORS.
6. ALL FLOORS HAVE PLASTERED CEILINGS ON CONCRETE.
7. SEE NAVFAC DWG. NO. 2,149,648 FOR FAN COIL (FC-1) DETAIL.

E. MICHAEL SWEENEY No. 4240 REGISTERED PROFESSIONAL ENGINEER

NETC DWG. NO. / NETC SK. NO.	29,303-290
DSGN:	R.P.D.
DR:	T.N.
BR:	J. Belveau P.E.
DIR:	
APPROVED / DATE	4/20/92
SATISFACTORY	
DATE	3-31-92

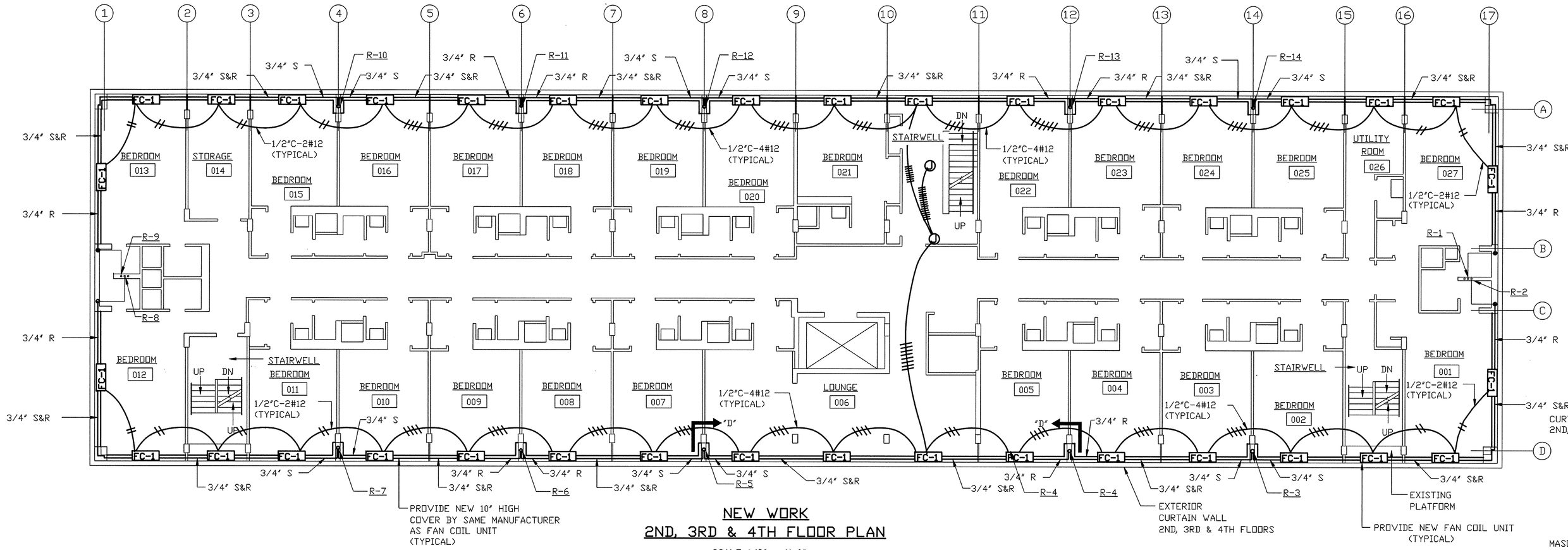
DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND

NAVAL EDUCATION AND TRAINING CENTER
NEWPORT, RHODE ISLAND

INDIVIDUAL HEATING CONTROLS BLDG. NO'S. 172, 444, AND 678
DEMOLITION, REMOVAL, AND NEW WORK, BUILDING NO. 172
MECHANICAL

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.
F	80091	2,149,646
SCALE: AS NOTED	SPEC. 04-91-1700	CONSTR. CONTR. NO. N62472-91-C-1700 — SHEET 2 OF 13

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPROVED

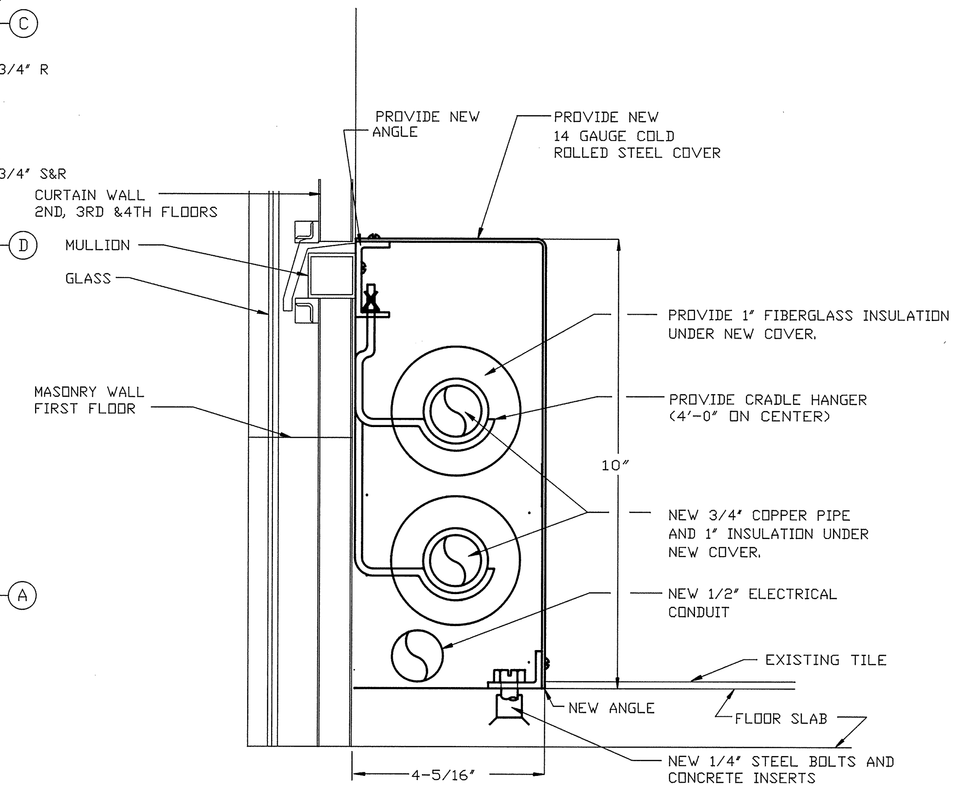


NEW WORK
2ND, 3RD & 4TH FLOOR PLAN

SCALE 1/8" = 1'-0"

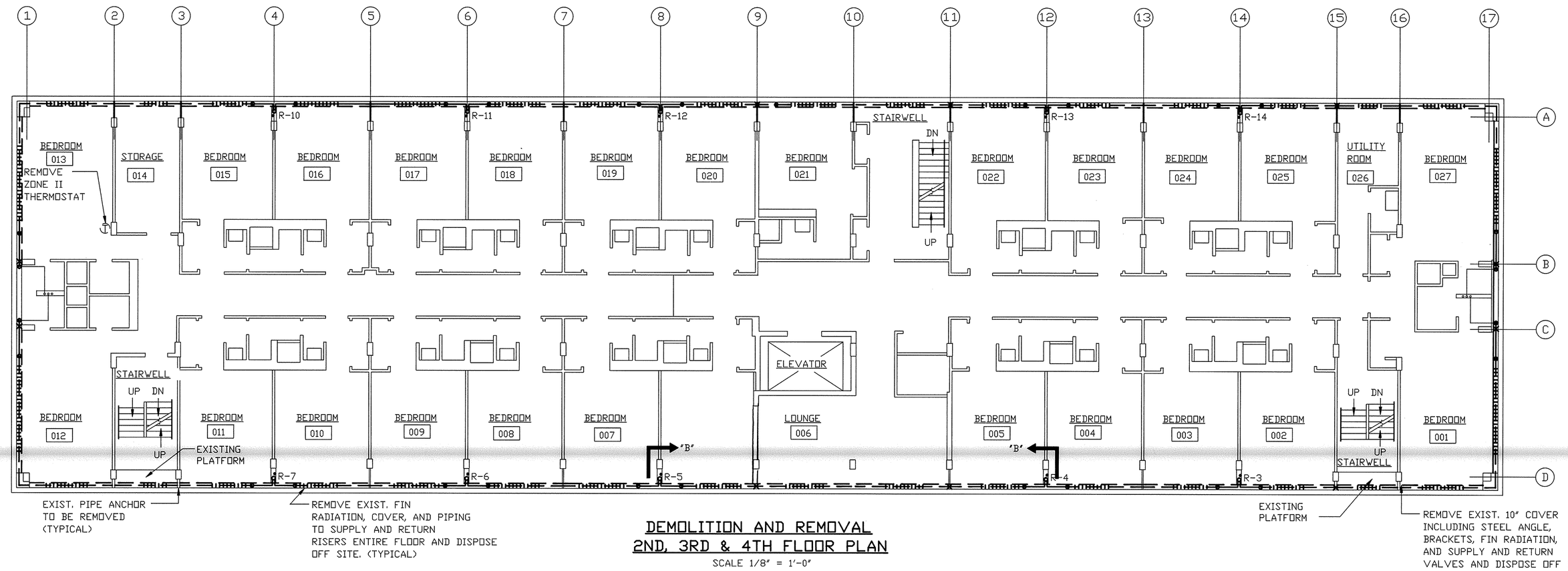
NOTE:

1. SEE NEW PANEL 'PPD' SCHEDULE ON NAVFAC DWG. NO. 2,149,646 FOR CIRCUITING OF NEW FAN COIL UNITS.



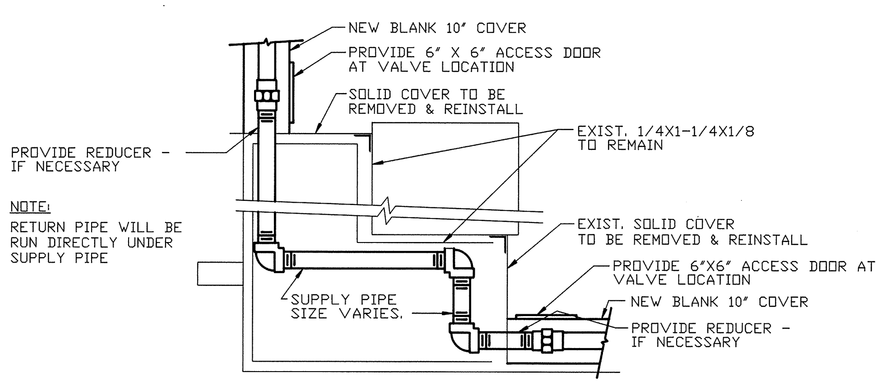
NEW BLANK COVER DETAIL
BUILDING NO. 172

NOT TO SCALE



DEMOLITION AND REMOVAL
2ND, 3RD & 4TH FLOOR PLAN

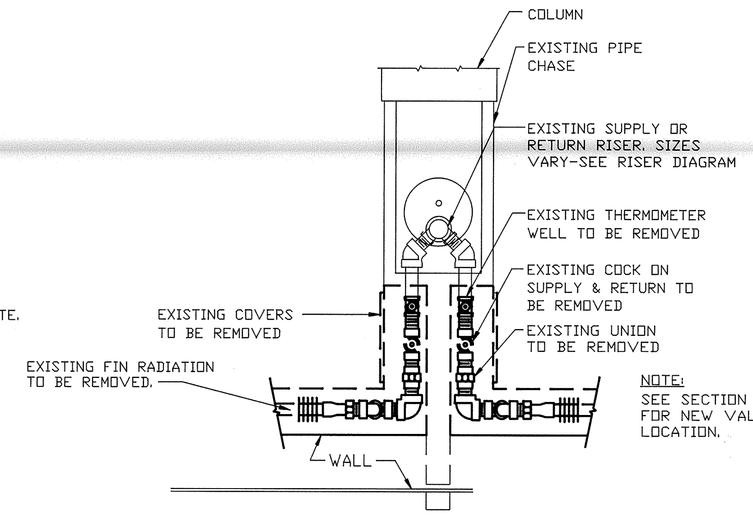
SCALE 1/8" = 1'-0"



NOTE:
RETURN PIPE WILL BE RUN DIRECTLY UNDER SUPPLY PIPE

TYPICAL CORNER
2ND, 3RD & 4TH FLOORS

NOT TO SCALE



NOTE:
SEE SECTION 'D-D' FOR NEW VALVE LOCATION.

TYPICAL DEMO. RADIATION DETAIL AT RISER
2ND, 3RD, & 4TH FLOORS

NOT TO SCALE

E. MICHAEL SWEENEY
No. 4240
REGISTERED PROFESSIONAL ENGINEER

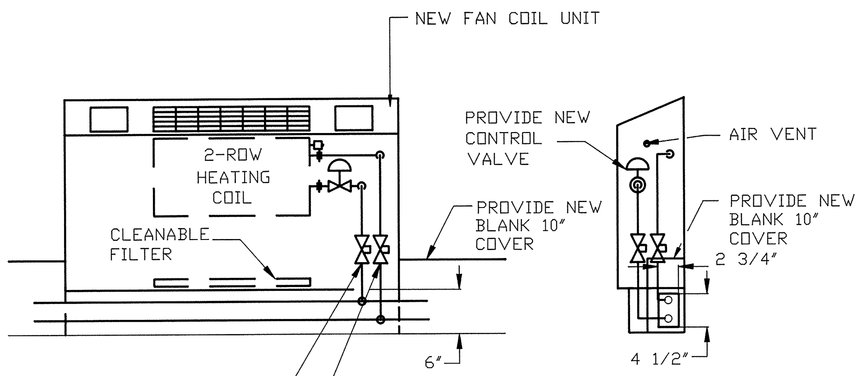
NETC DWG. NO. / NETC SK. NO.	29,304-290
DSGN	R.P.D.
DR.	S.B.
BR.	
DIR.	
APPROVED	DATE 4/20/92
SATISFACTORY TO	
DATE	3-31-92

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
NAVAL EDUCATION AND TRAINING CENTER
NEWPORT, RHODE ISLAND

INDIVIDUAL HEATING CONTROLS BLD'G. NOS. 172, 444, 678
DEMOLITION REMOVAL AND NEW WORK DETAILS
BUILDING NO. 172

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.
F	80091	2,149,647
SCALE: AS NOTED		CONSTR. CONTR. NO. N62472-91-C-1700
		SPEC. 04-91-1700 — SHEET 3 OF 13

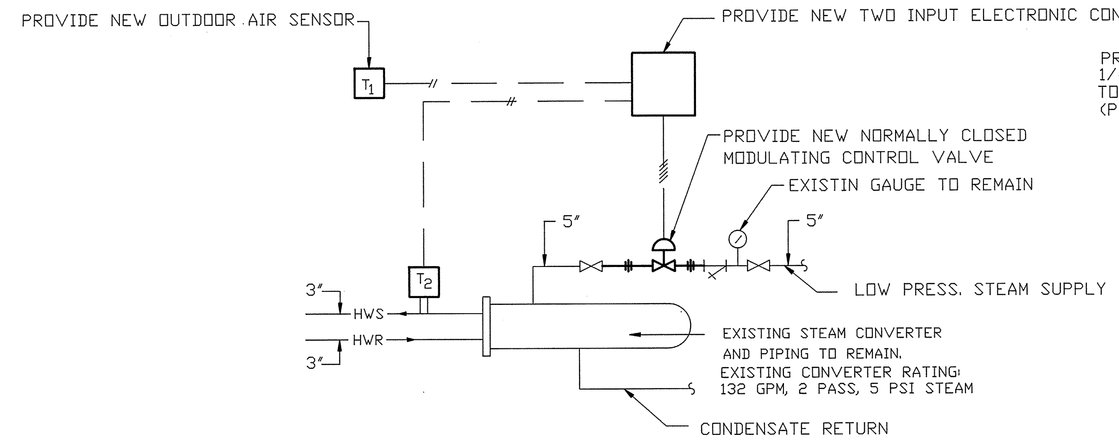
REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPROVED



NOTE:
1. PROVIDE THREE SPEED FAN MOTOR RATED 115V/1 PH/60 HZ, 105 WATTS
2. PROVIDE UNIT MOUNTED THERMOSTAT WITH REMOTE BULB, 1-SPDT ACTION
3. PROVIDE UNIT MOUNTED TWO-WAY VALVE, SHUT-OFF, AND BALANCING VALVE.
4. 300 CFM, 11,500 BTU/HR @ .9 GPM

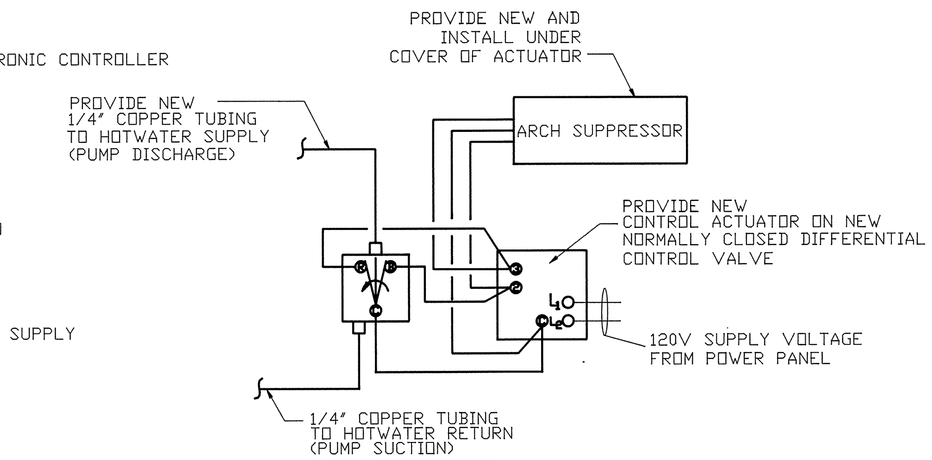
FC-1
TYPICAL FANCOIL UNIT - BUILDING NO. 172

SCALE: 1"= 1'- 0"



BUILDING NO. 172 CONVERTER TEMPERATURE CONTROL SCHEMATIC (TYPICAL FOR TWO)

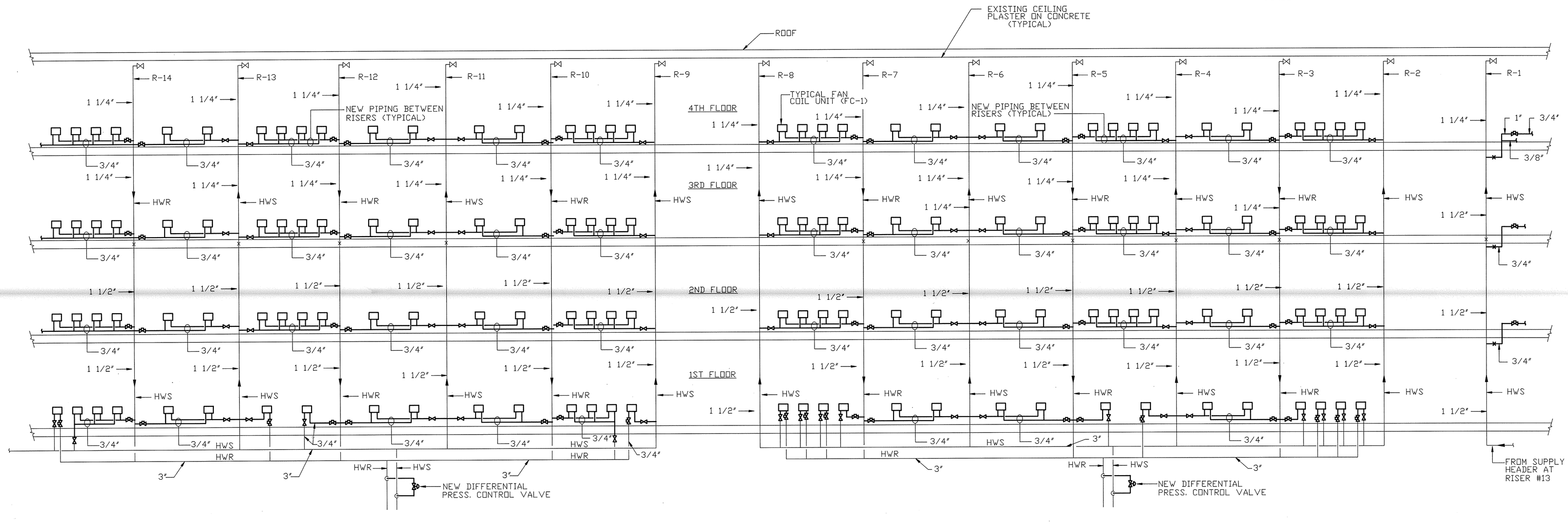
NO SCALE



NOTES:
1. R - CONTACT MAKES ON PRESSURE INCREASE.
2. 2 - ROTATES CW OR CLOSES VALVE
3. 3 - ROTATES CCW OR OPENS VALVE.
4. DIFFERENTIAL CONTROL RANGE - 0 TO 60 PSI DIFFERENTIAL - 2 PSI.
5. MOUNT DIFFERENTIAL PRESSURE SWITCH ON BRACKET DESIGNED FOR DEVICE. MOUNT BRACKET ON WALL AS INDICATED.

DIFFERENTIAL PRESSURE CONTROL SCHEMATIC

NO SCALE



NOTE:
1. ALL RISERS ARE EXISTING AND TO REMAIN.
2. PROVIDE NEW FITTINGS FOR BRANCH LINES TO NEW AND EXISTING HEATING AND EQUIPMENT.

FAN COIL RISER DIAGRAM BUILDING NO. 172

NO SCALE

E. MICHAEL SWEENEY No. 4240 REGISTERED PROFESSIONAL ENGINEER

NETC DWG. NO. / NETC SK. NO.	29,305-290
DSGN	R.P.D.
DR.	T.N.
DR.	
DIR.	
APPROVED	DATE 4/20/92
SATISFACTORY TO	
DATE	3-31-92

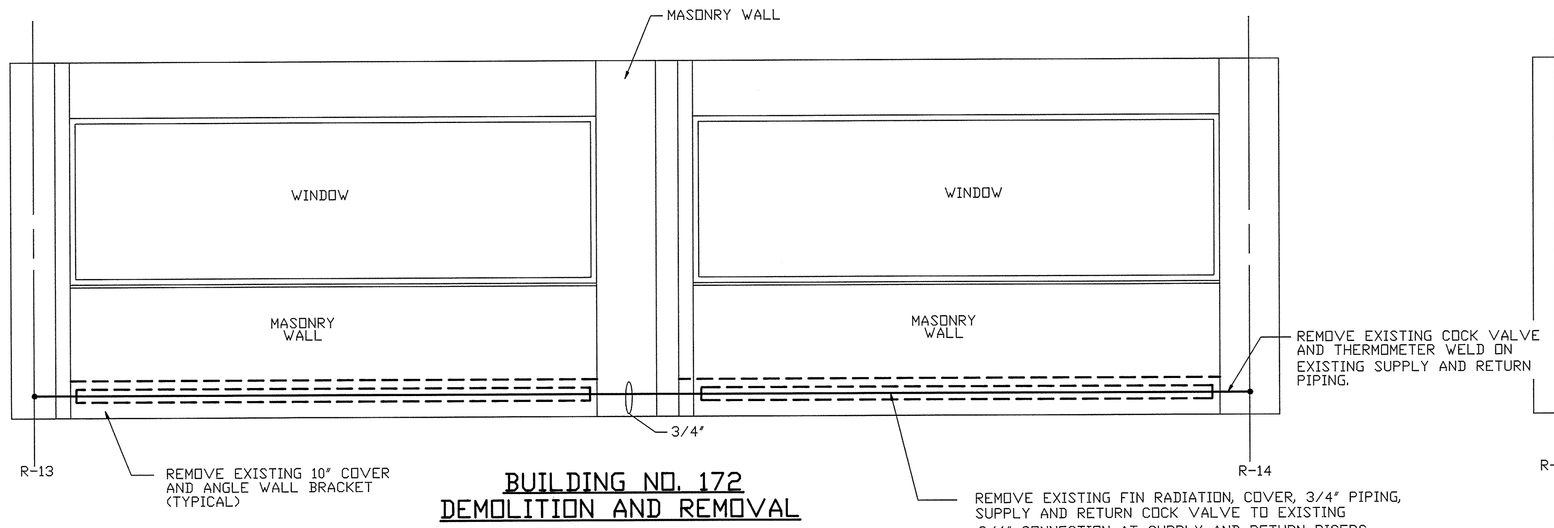
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
NAVAL EDUCATION AND TRAINING CENTER
NEWPORT, RHODE ISLAND

INDIVIDUAL HEATING CONTROLS BUILDING NOS. 172, 444, AND 678

RISER DIAGRAM AND DETAILS BUILDING NO. 172

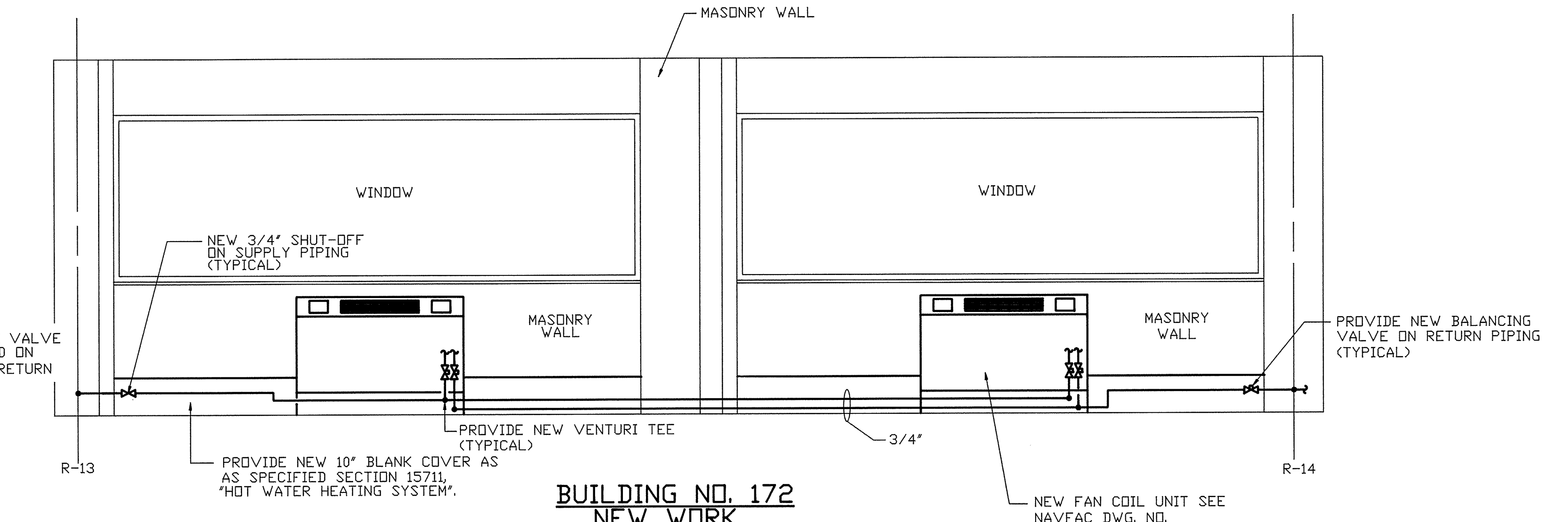
SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.
F	80091	2,149,648
SCALE: AS NOTED	SPEC. 04-91-1700	CONSTR. CONTR. NO. N62472-91-C-1700 SHEET 4 OF 13

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPROVED



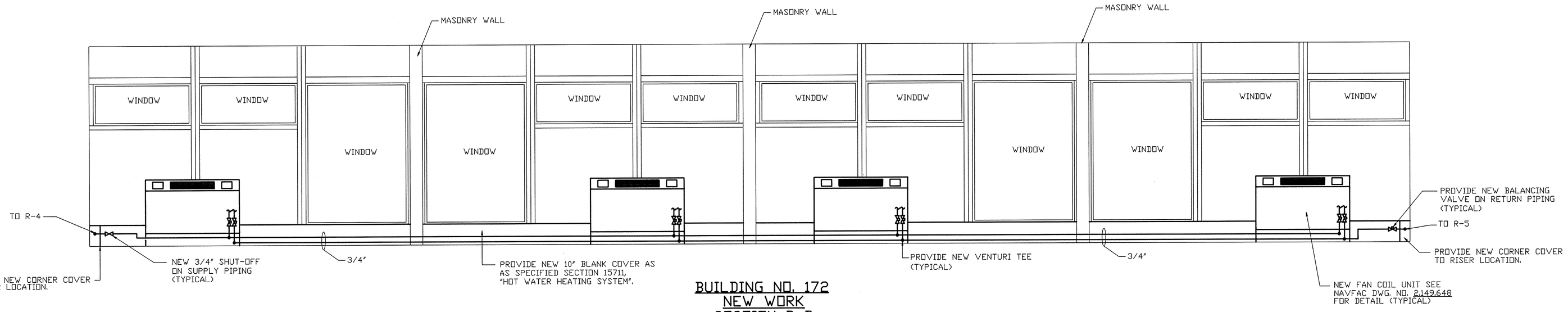
BUILDING NO. 172
DEMOLITION AND REMOVAL
SECTION A-A

SCALE: 1/2" = 1'- 0"



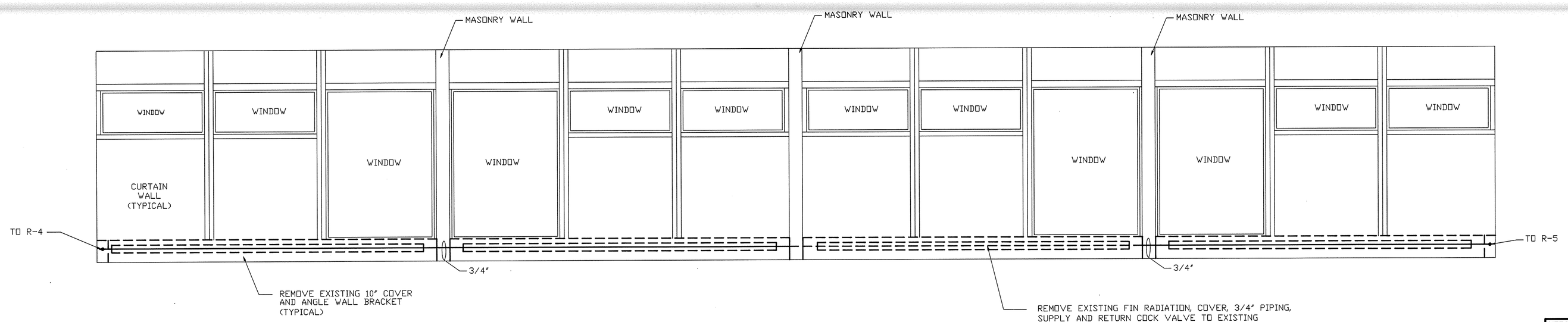
BUILDING NO. 172
NEW WORK
SECTION C-C

SCALE: 1/2" = 1'- 0"



BUILDING NO. 172
NEW WORK
SECTION D-D

SCALE: 1/2" = 1'- 0"



BUILDING NO. 172
DEMOLITION AND REMOVAL
SECTION B-B

SCALE: 1/2" = 1'- 0"

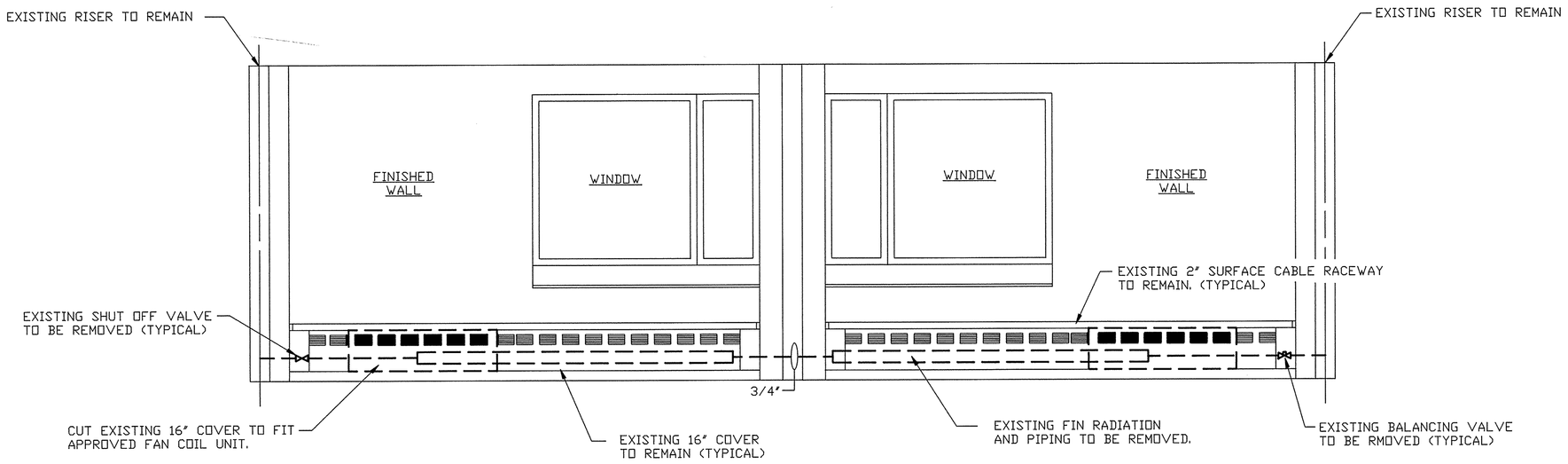
GRAPHIC SCALE

1/2" = 1'- 0" 0 1' 2' 3' 4' 5' 6' 7' 8'

E. MICHAEL SWEENEY
No. 8240
REGISTERED PROFESSIONAL ENGINEER

NETC DWG. NO. / NETC SK. NO. 29,306-290	DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND NAVAL EDUCATION AND TRAINING CENTER NEWPORT, RHODE ISLAND
DSGN R.P.D.	INDIVIDUAL HEATING CONTROLS BLDG. NO.S. 172, 444, AND 678 SECTIONS AND DETAILS BUILDING NO. 172 MECHANICAL
DR. T.N.	
BR.	
DIR.	
APPROVED: DATE 4/20/92	
SATISFACTORY TO: DATE 3-31-92	SIZE F · CODE IDENT NO. 80091 · NAVFAC DRAWING NO. 2,149,649
	CONSTR. CONTR. NO. N62472-91-C-1700
	SCALE: AS NOTED · SPEC. 04-91-1700 · SHEET 5 OF 13

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPROVED

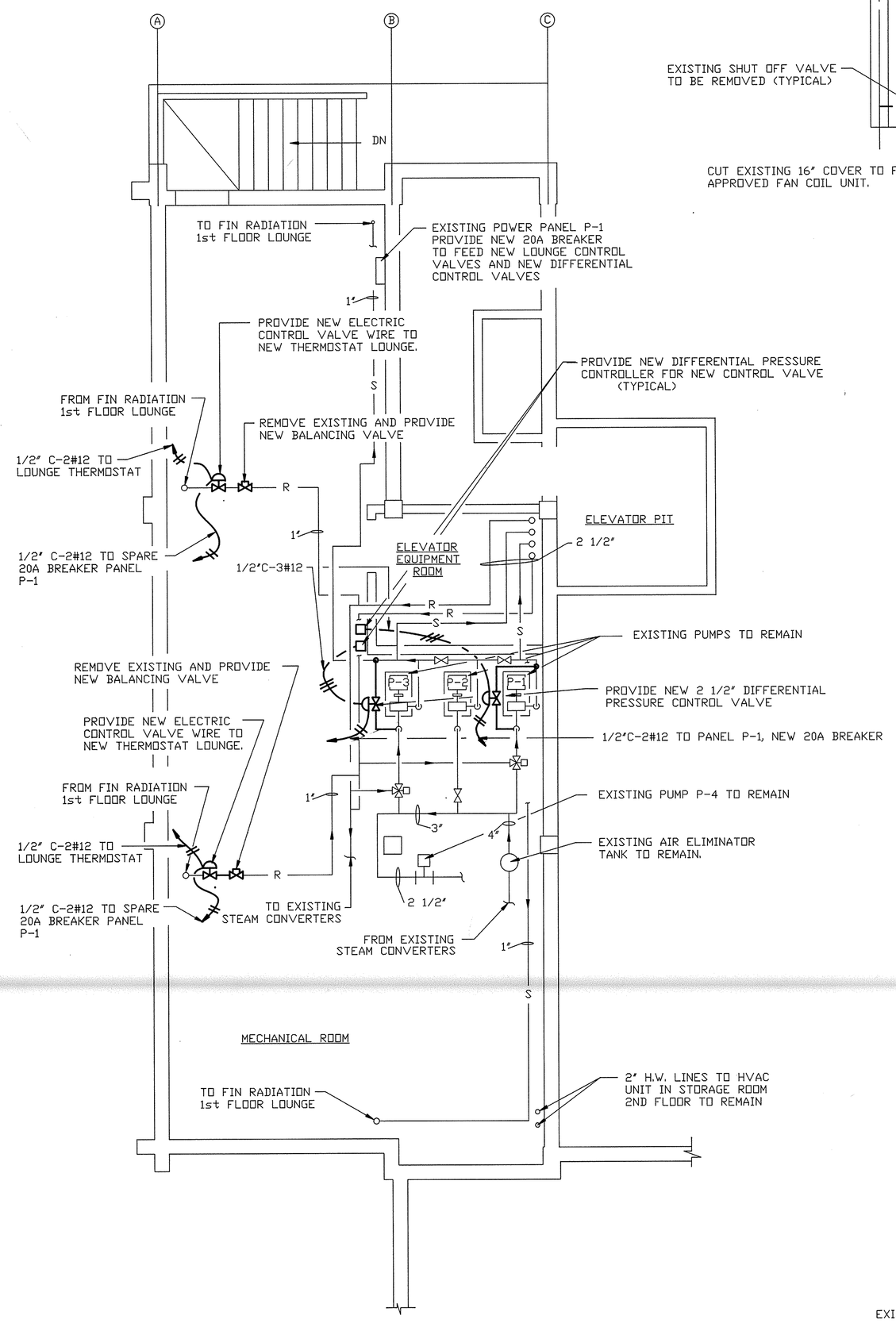


BUILDING NO. 678
DEMOLITION AND REMOVAL
SECTION E-E

SCALE: 1/2"= 1'- 0"

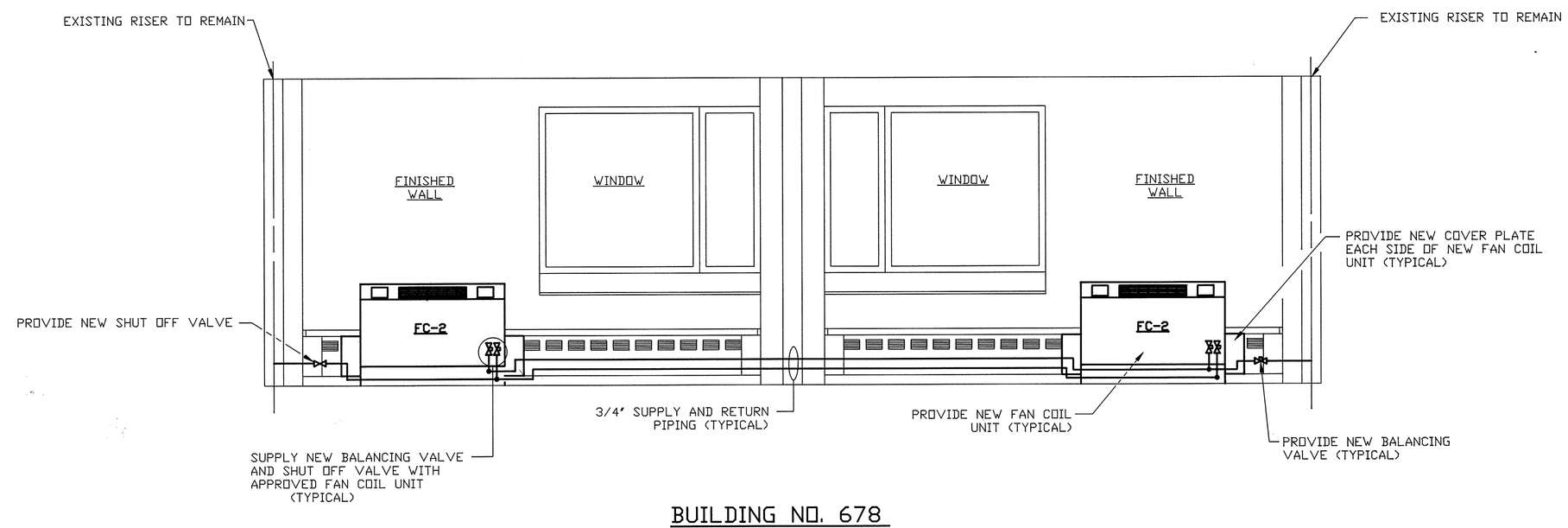
NOTE:

1. FOR DETAIL OF NEW DIFFERENTIAL CONTROL VALVE INSTALLATION SEE NAVFAC DWG. NO. 2,149,653.
2. FOR DETAIL OF NEW DIFFERENTIAL CONTROL VALVE WIRING DIAGRAM SEE NAVFAC DWG. NO. 2,149,648.



MECHANICAL ROOM PLAN

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

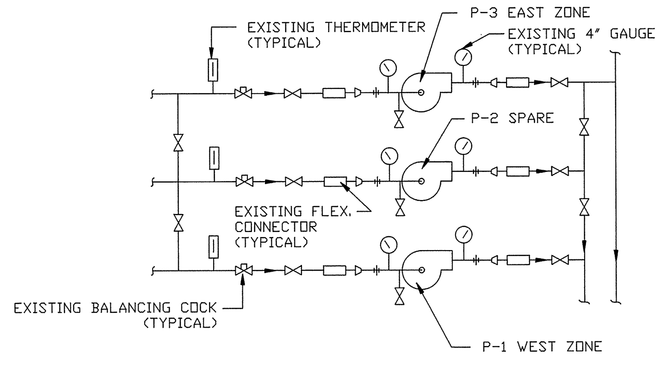


BUILDING NO. 678
NEW WORK
SECTION F-F

SCALE: 1/2"= 1'- 0"

NOTES:

1. NEW HOT WATER SUPPLY AND RETURN PIPING SHALL BE RUN UNDER EXISTING COVER. SUPPLY 3/16" STEEL ROD HANGER EVERY 4' TO SUPPORT NEW SUPPLY AND RETURN PIPING. EXISTING COVER IS MANUFACTURED BY DUNHAM-BUSH TYPE FFT (TYPICAL FOR ALL COVER IN BUILDING NO. 678)



EXISTING PUMP PIPING SCHEMATIC
TYPICAL FOR BUILDING NO. 678
(FOR USE WITH BUILDING BALANCE)

NO SCALE

EXISTING PUMP SCHEDULE

SYMBOL	GPM	HEAD FT	RPM	HP	REMARKS
P-1	60	30'	1750	1	WEST ZONE
P-2	60	30'	1750	1	SPARE
P-3	60	30'	1750	1	EAST ZONE

NOTE:

EXISTING PUMP SCHEDULE IS GIVEN FOR SYSTEM BALANCE. EXISTING PUMPS, GAUGES, THERMOMETERS AND VALVES ARE TO REMAIN.

GRAHIC SCALE

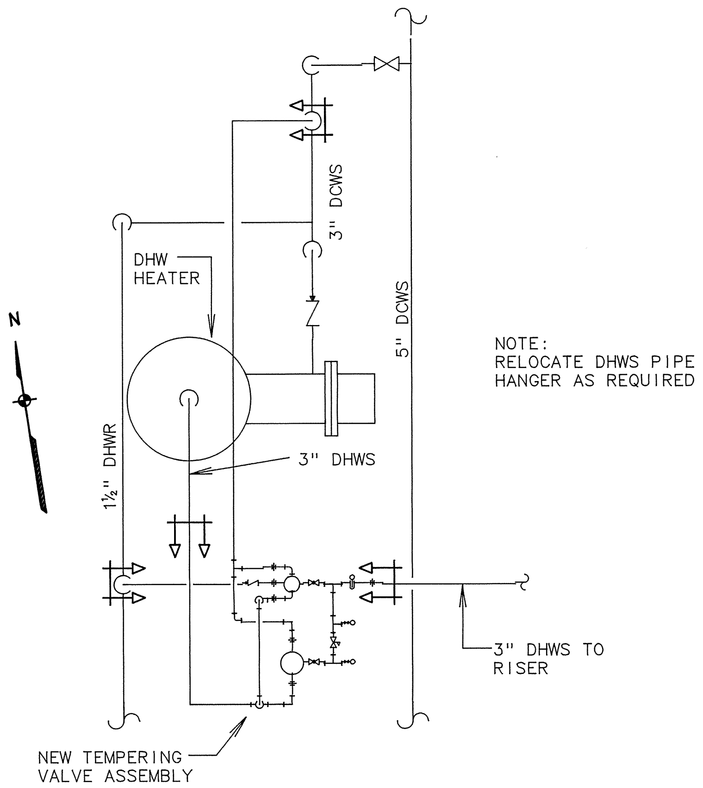
SCALE: 1/4" = 1'- 0" 0 5' 10' 15'

SCALE: 1/2" = 1'- 0" 0 1' 2' 3' 4' 5' 6' 7' 8'

E. MICHAEL SWEENEY No. 4240 REGISTERED PROFESSIONAL ENGINEER

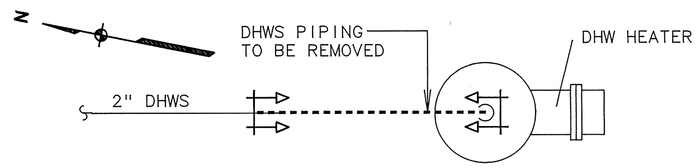
NETC DWG. NO. 29,314-290 NETC SK. NO.	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVAL EDUCATION AND TRAINING CENTER NEWPORT, RHODE ISLAND
DSGN: R.P.D. DR.: R.P.D. BR.: J. Bowen P.E. DIR. APPROVED DATE 4/20/92	INDIVIDUAL HEATING CONTROLS BLDG. NO.'S 172, 444, AND 678 MECHANICAL ROOM, ELEVATIONS, AND DETAILS MECHANICAL/ELECTRICAL
SATISFACTORY TO DATE 3/31/92	SIZE F · CODE IDENT NO. 80091 · NAVFAC DRAWING NO. 2,149,657 CONSTR. CONTR. NO. N62472-91-C-1700 SCALE: AS NOTED · SPEC. 04-91-1700 · SHEET 13 OF 13

REVISION				
SYM	ZONE	DESCRIPTION	DATE	APPROVED
1		AS BUILT 12-29-93	4-10-98	MD



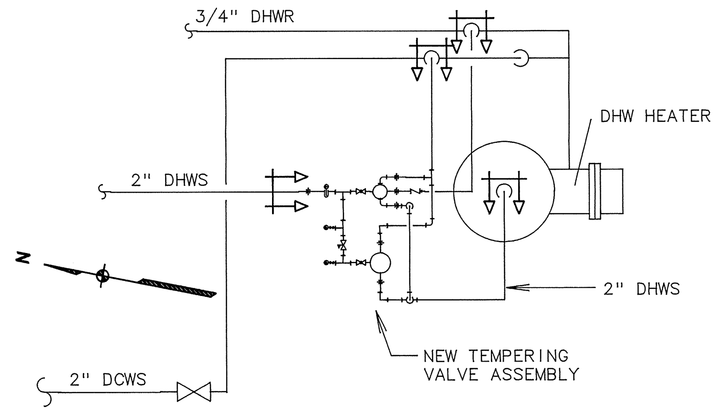
BUILDING 172 PIPING PLAN

SCALE: 3/4" = 1'-0"



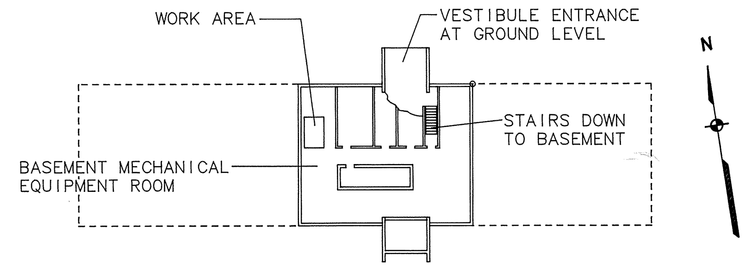
BUILDING 441 REMOVAL PLAN

SCALE: 3/4" = 1'-0"

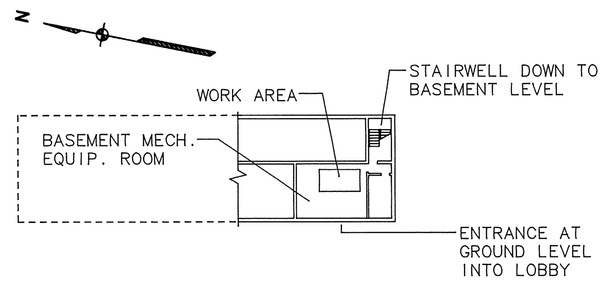


BUILDING 441 PIPING PLAN

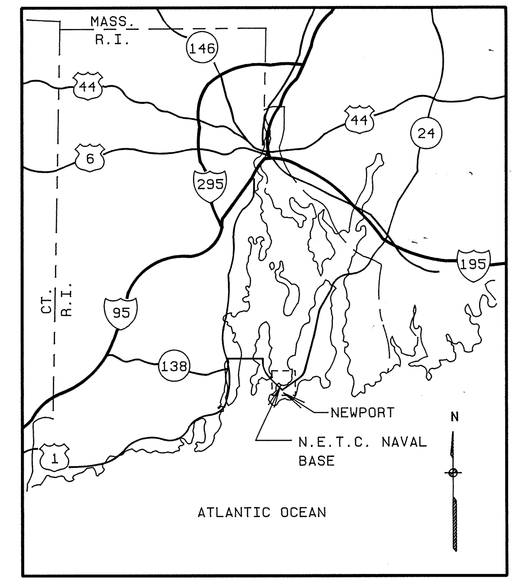
SCALE: 3/4" = 1'-0"



BUILDING 172 KEY PLAN

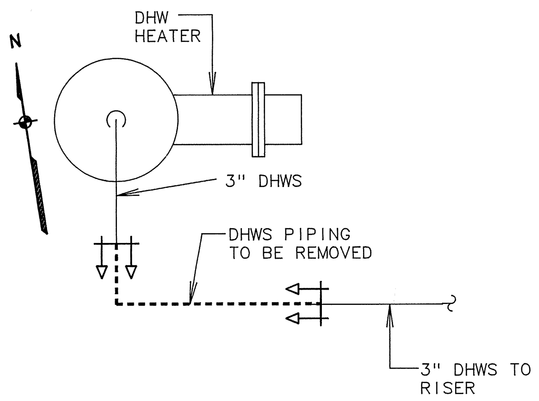


BUILDING 441 KEY PLAN



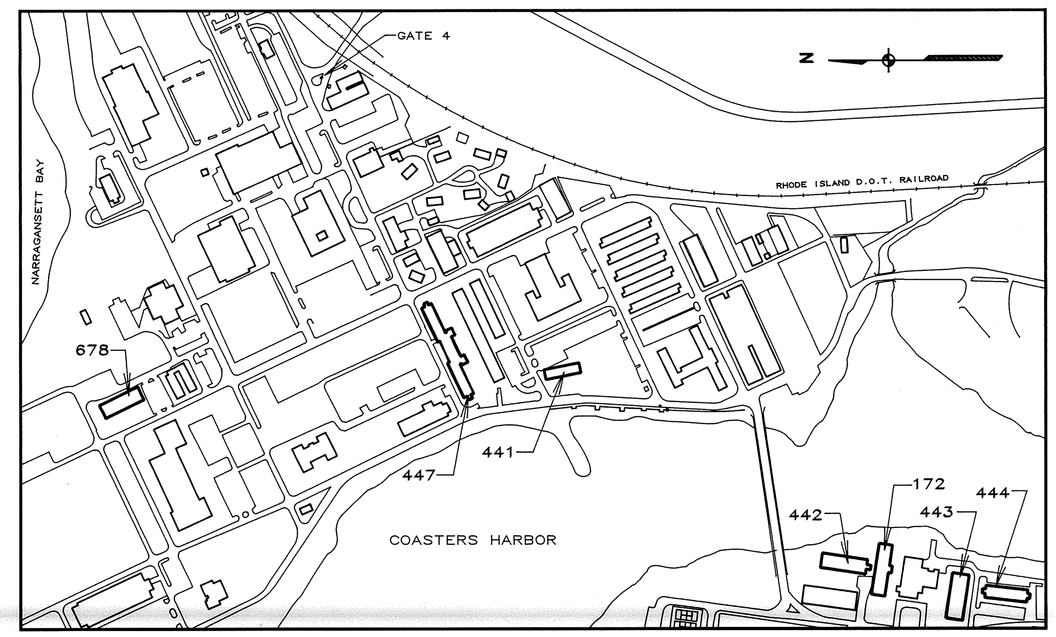
VICINITY MAP

NO SCALE



BUILDING 172 REMOVAL PLAN

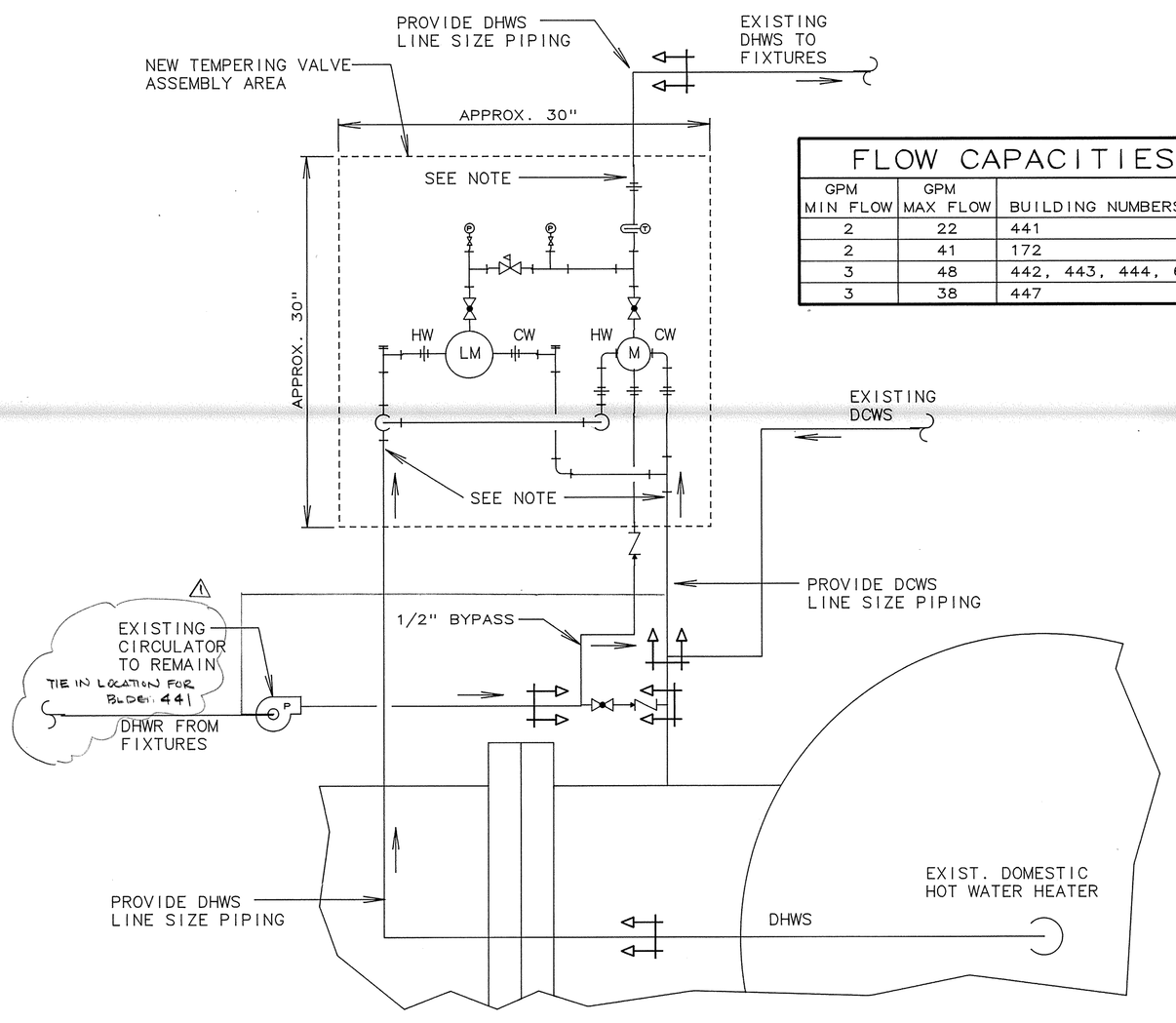
SCALE: 3/4" = 1'-0"



LOCATION MAP

NO SCALE

FLOW CAPACITIES		
GPM MIN FLOW	GPM MAX FLOW	BUILDING NUMBERS
2	22	441
2	41	172
3	48	442, 443, 444, 678
3	38	447



NOTE:

INSTALL PIPING AT FULL DCWS AND DHWS LINE SIZE ALL THE WAY TO THE INLET OF THE NEW TEMPERING VALVE ASSEMBLY.

TYPICAL PIPING SCHEMATIC

NO SCALE

SYMBOL LEGEND

- PIPING TO BE REMOVED
- GLOBE VALVE
- GATE VALVE
- CHECK VALVE
- PRESSURE REDUCING VALVE
- NEW WORK CONNECTION POINT (ARROW POINTS TOWARD NEW WORK)
- PIPING UNION
- PRESSURE GAUGE
- ANGLE STAINER CHECK VALVE
- (LM) LARGE THERMOSTATIC MIXING VALVE
- (M) SMALL THERMOSTATIC MIXING VALVE
- DCWS DOMESTIC COLD WATER SUPPLY
- DHWS DOMESTIC HOT WATER SUPPLY
- DHWR DOMESTIC HOT WATER RETURN
- THERMOMETER

CHECK SCALE BEFORE USING

3/4"=1'-0"

0 1' 2' 4'

PEN J. FANG
No. 3566
REGISTERED PROFESSIONAL ENGINEER

ENGITEK, INC.
Consulting Engineers & Architects
1370 Plainfield Street
Cranston, Rhode Island 02919

NETC DWG. NO. 29463-291
NETC SK. NO.
DSGN. JMS
DR. JMS
BR. [illegible]
DIR. [illegible] PE 7/27/92
APPROVED [illegible] DATE 10/2/92
SATISFACTORY TO [illegible] for 43
DATE 7-20-92

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
NAVAL EDUCATION AND TRAINING CENTER
NEWPORT, RHODE ISLAND

PROVIDE DOMESTIC HOT WATER TEMPERING DEVICES FOR BUILDINGS 172, 441, 442, 443, 444, 447, AND 678

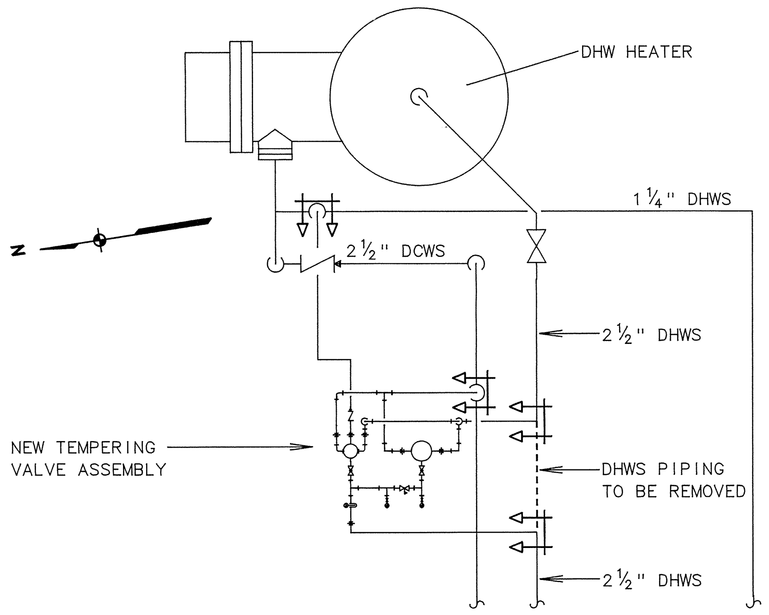
PIPING SCHEMATIC AND PLAN VIEWS

SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.	DIS. SH. NO.
F	80091	2149506	P-1

CONSTR. CONTR. NO. N62472-92-C-1672

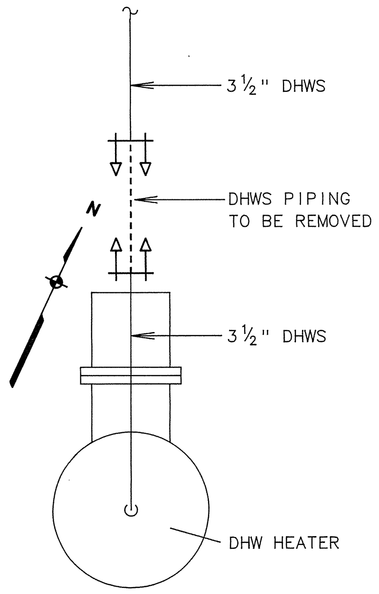
SCALE: AS NOTED — SPEC. 04-92-1672 — SHEET 1 OF 2

REVISION				
SYM	ZONE	DESCRIPTION	DATE	APPROVED
		AS BUILT 12-29-93	4-10-98	MD



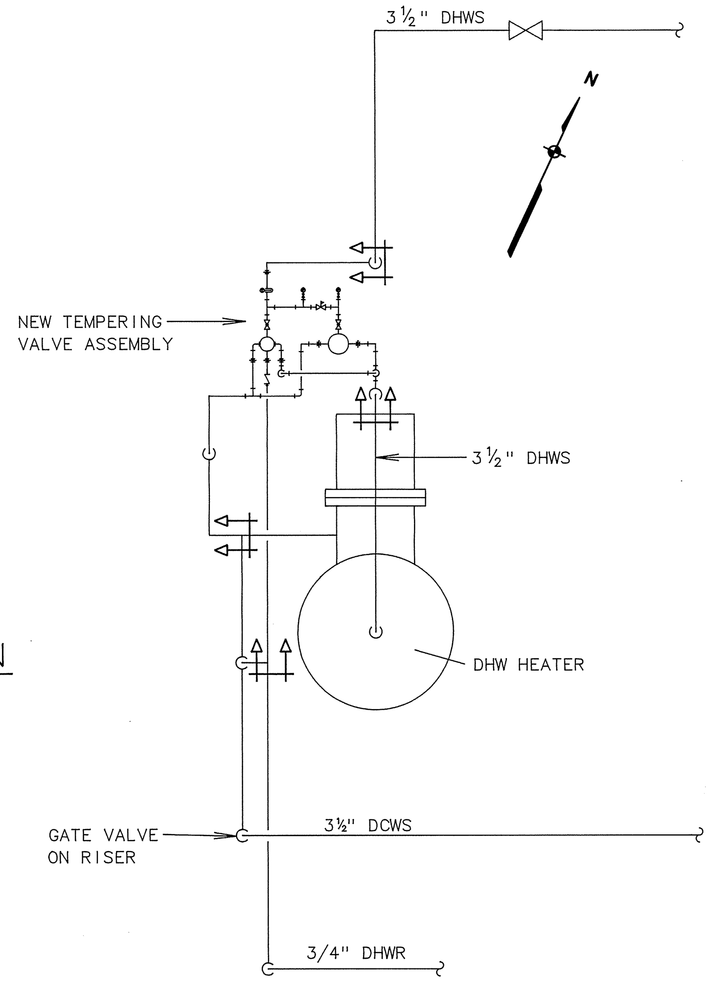
BUILDING 442 PIPING PLAN

SCALE: 3/4" = 1'-0"



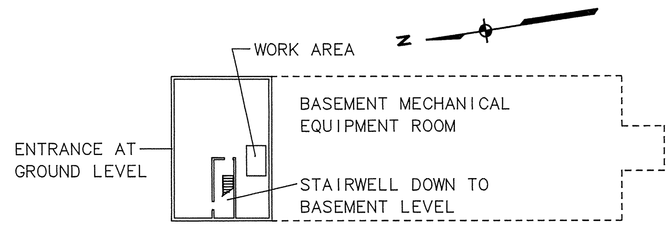
BUILDING 447 REMOVAL PLAN

SCALE: 3/4" = 1'-0"

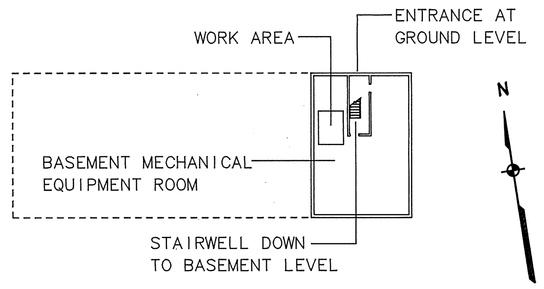


BUILDING 447 PIPING PLAN

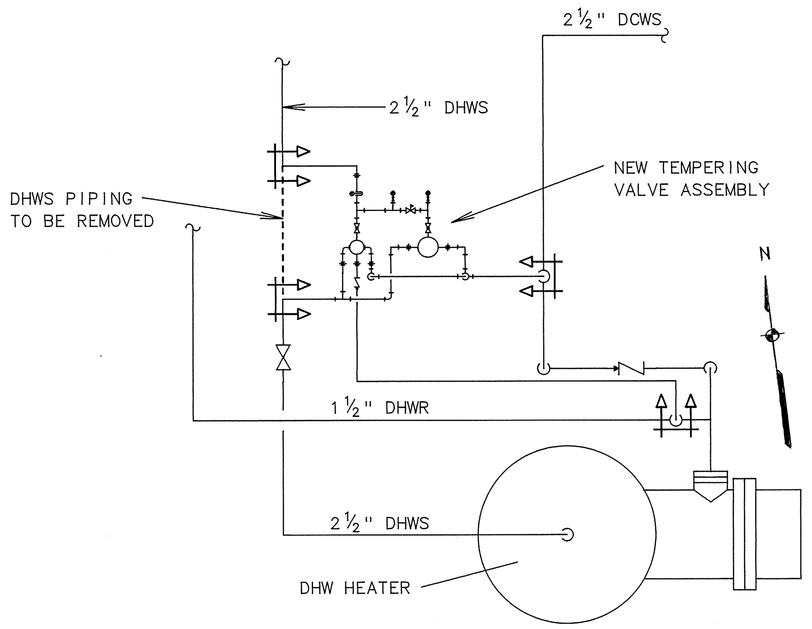
SCALE: 3/4" = 1'-0"



BUILDING 442 KEY PLAN

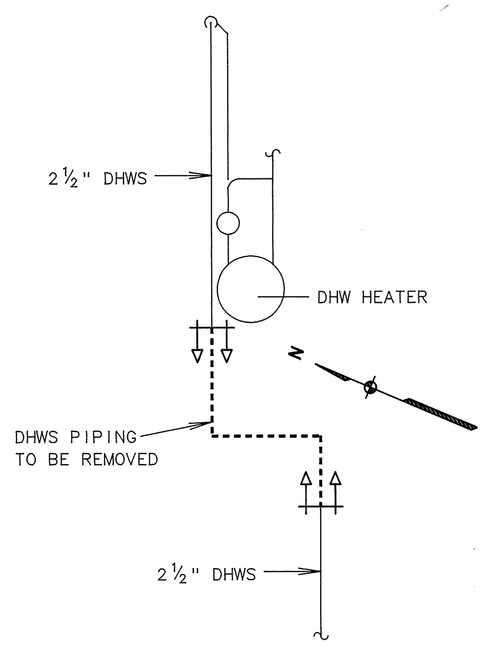


BUILDING 443 KEY PLAN



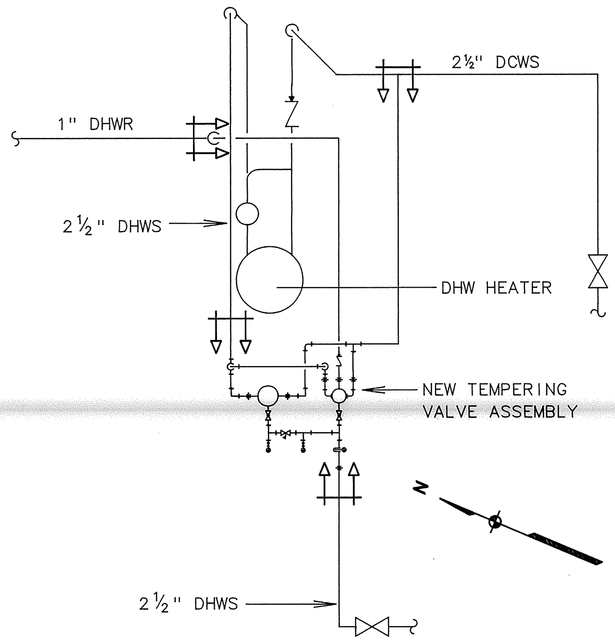
BUILDING 443 PIPING PLAN

SCALE: 3/4" = 1'-0"



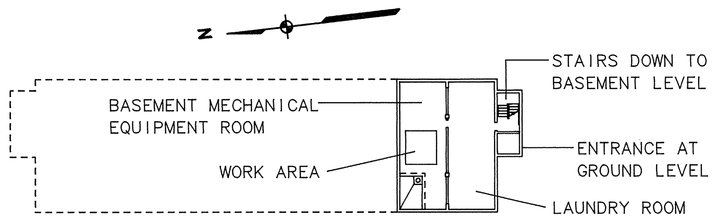
BUILDING 678 REMOVAL PLAN

SCALE: 3/4" = 1'-0"

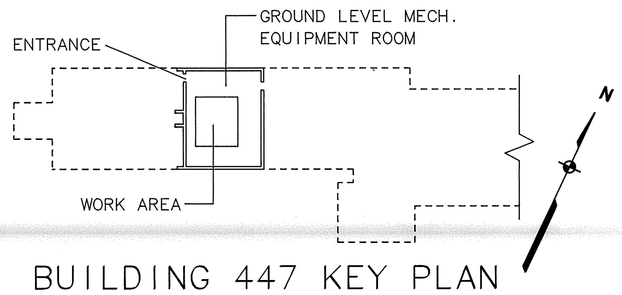


BUILDING 678 PIPING PLAN

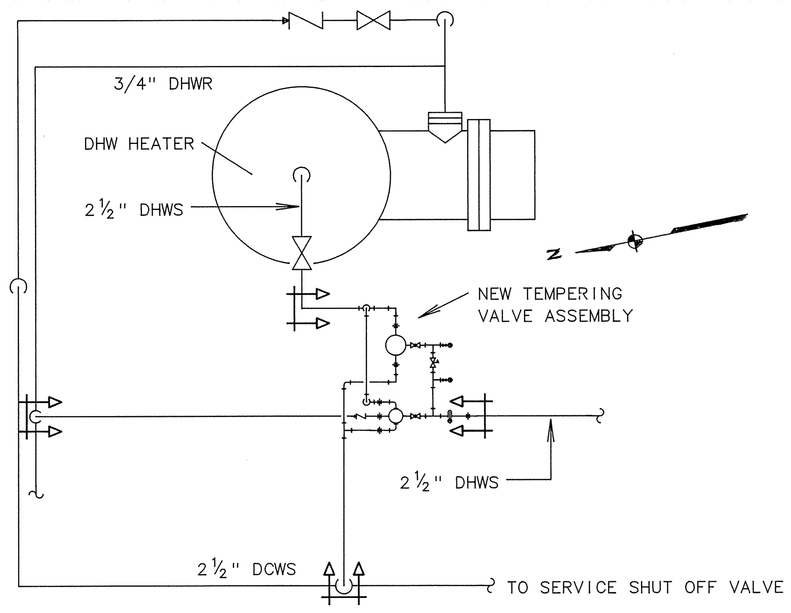
SCALE: 3/4" = 1'-0"



BUILDING 444 KEY PLAN

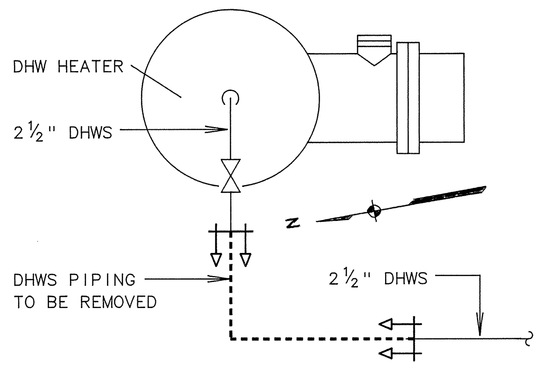


BUILDING 447 KEY PLAN



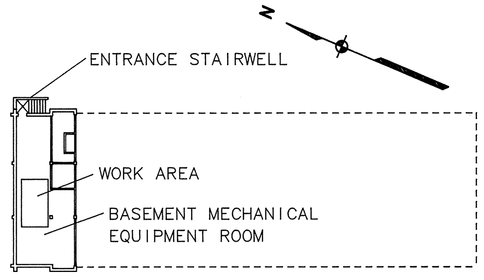
BUILDING 444 PIPING PLAN

SCALE: 3/4" = 1'-0"



BUILDING 444 REMOVAL PLAN

SCALE: 3/4" = 1'-0"



BUILDING 678 KEY PLAN

NOTES:

1. FOR SYMBOL LEGEND AND FLOW CAPACITIES SEE DRAWING P-1
2. PROVIDE NEW CHECK VALVE AND GLOBE VALVE FOR DHWR PIPING AS SHOWN IN SCHEMATIC ON DRAWING P-1.

CHECK SCALE BEFORE USING

3/4"=1'-0"

0 1' 2' 4'

PEN J. FANG
REGISTERED PROFESSIONAL ENGINEER No. 3566

ENGITEK, INC.
Consulting Engineers & Architects
1370 Plainfield Street
Cranston, Rhode Island 02919

NETC DWG. NO. 29464-291
NETC SK. NO.
DSGN. JMS
DR. JMS
BR. [illegible] PE
DIR. [illegible] PE 7/27/92
APPROVED [illegible] 10/2/92
DATE
SATISFACTORY TO [illegible] for 43
DATE 7-20-92

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
NAVAL EDUCATION AND TRAINING CENTER
NEWPORT, RHODE ISLAND

PROVIDE DOMESTIC HOT WATER TEMPERING DEVICES FOR BUILDINGS 172, 441, 442, 443, 444, 447, AND 678

ADDITIONAL PLAN VIEWS

SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.	DIS. SH. NO.
F	80091	2149507	P-2
SCALE: AS NOTED		CONSTR. CONTR. NO. N62472-92-C-1672	
		SPEC. 04-92-1672	SHEET 2 OF 2

ALTERATIONS TO BUILDING NO. 172

NAVAL EDUCATION AND TRAINING CENTER

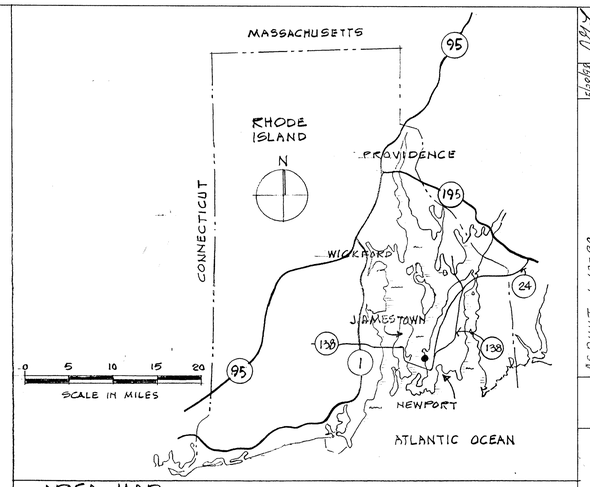
NEWPORT, RHODE ISLAND

DRAWING INDEX

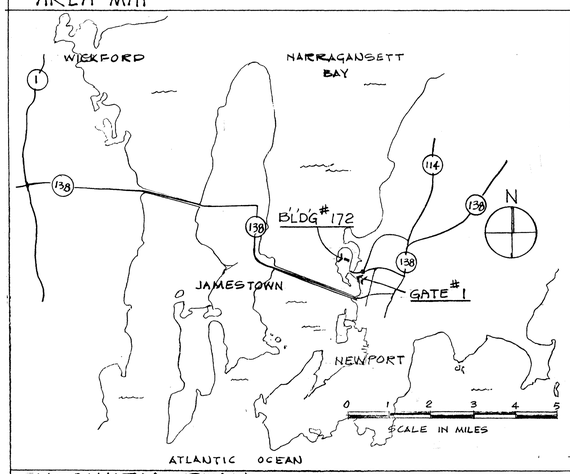
NETC NO.	NAVFAC NO.	SHEET NO.	SHEET TITLE
30057-297	2160322	1	DRAWING INDEX & LOCATION PLANS
30058-297	2160323	2	SITE PLAN AND DETAILS
30059-297	2160324	3	BASEMENT & FIRST FLOOR PLANS EXISTING
30060-297	2160325	4	SECOND & THIRD FLOOR PLANS EXISTING
30061-297	2160326	5	FOURTH FLOOR PLAN EXISTING
30062-297	2160327	6	EXISTING SECTIONS
30063-297	2160328	7	FIRST FLOOR PLAN NEW
30064-297	2160329	8	SECOND & THIRD FLOOR PLANS NEW
30065-297	2160330	9	FOURTH FLOOR PLAN NEW
30066-297	2160331	10	TYPE I SUITE, EXISTING AND NEW
30067-297	2160332	11	TYPE II SUITE, EXISTING AND NEW
30068-297	2160333	12	KITCHEN PLAN AND DETAILS
30069-297	2160334	13	DOORS AND WINDOWS
30070-297	2160335	14	BUILDING ELEVATIONS
30071-297	2160336	15	FIRE PROTECTION, BASEMENT AND FIRST FLOOR
30072-297	2160337	16	FIRE PROTECTION, SECOND AND THIRD FLOORS
30073-297	2160338	17	FIRE PROTECTION, FOURTH FLOOR
30074-297	2160339	18	PLUMBING, BASEMENT AND FIRST FLOORS
30075-297	2160340	19	PLUMBING, SECOND AND THIRD FLOORS
30076-297	2160341	20	PLUMBING, FOURTH FLOOR
30077-297	2160342	21	MECHANICAL
30078-297	2160343	22	ELECTRICAL - SITE PLAN, DETAILS, NOTES
30079-297	2160344	23	ELECTRICAL - BASEMENT & FIRST FLOOR, EXISTING CONDITIONS
30080-297	2160345	24	ELECTRICAL - 2ND to 4TH FLOORS, EXISTING CONDITIONS
30081-297	2160346	25	ELECTRICAL - BASEMENT & FIRST FLOOR NEW
30082-297	2160347	26	ELECTRICAL - 2ND to 4TH FLOORS, NEW
30083-297	2160348	27	ELECTRICAL - KEY NOTES
30084-297	2160349	28	ELECTRICAL - SCHEDULES, SYMBOLS, NOTES

ABBREVIATIONS

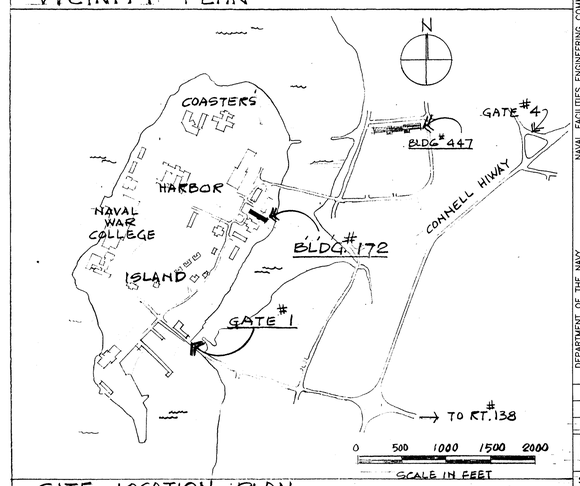
&	AND
B	BRICK
℄	CENTER LINE
CLO	CLOSET
C.W.	COLD WATER
COL	COLUMN
CONC.	CONCRETE
CONN	CONNECTION
Ø	DIAMETER
DN	DOWN
D	DRYER
ELEC	ELECTRIC/ELECTRICAL
EL/ELEV	ELEVATION
EXH.	EXHAUST
EXISTG	EXISTING
FD	FIRE DEPARTMENT
FL	FLOOR
GYP.	GYPSUM
HM	HOLLOW METAL
H.W.	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
JAN	JANITOR
LAV	LAVATORY
MACH	MACHINE
MAINT	MAINTENANCE
M.C.	MEDICINE CABINET
#	NUMBER
O.C.	ON CENTER
PL	PLASTIC LAMINATE
P.I.V.	POST INDICATOR VALVE
R.D.	ROOF DRAIN
RM	ROOM
RT	ROUTE
SAN	SANITARY
TEL	TELEPHONE
T.	TOILET
TRANSF	TRANSFORMER
VWC	VINYL WALLCOVERING
W.	WASHER
W.C.	WATER CLOSET
W/	WITH



AREA MAP



VICINITY PLAN



SITE LOCATION PLAN

I. T. ALMY ASSOCIATES
958 REGAN ROAD
SOMERSET, MA 02726

REVISIONS			
SYMBOL	DESCRIPTION	DATE	APP'VD
	AS BUILT 1-12-98	1/28/98	

DSGN.
DR.
BR. HD. 7/1/93
DIV. HD.
~~APPROVED~~ SAT TO 7-16-93
DATE

~~APPROVED~~ 7/1/93
DATE

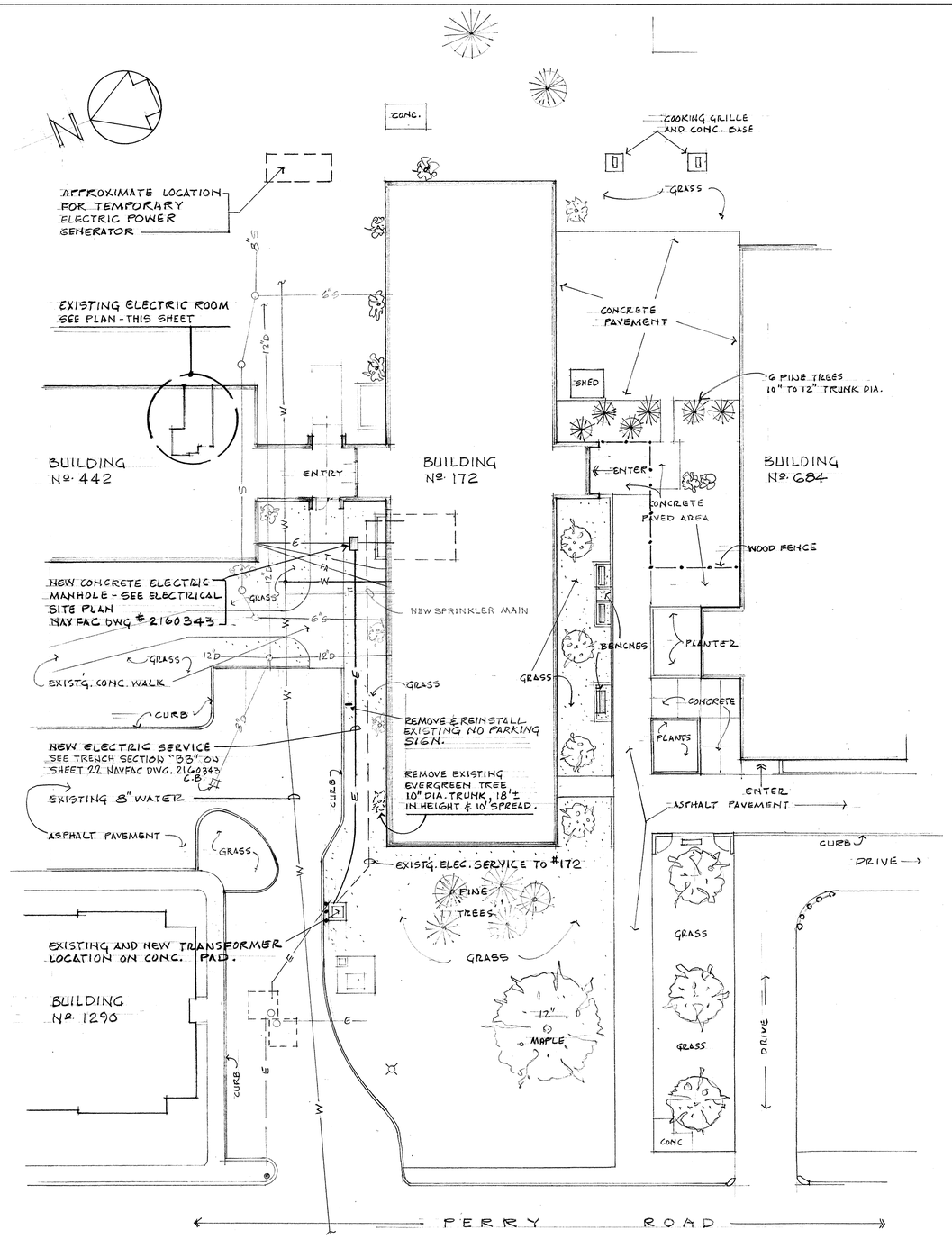
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL EDUCATION AND TRAINING CENTER
NEWPORT, R.I.

ALTERATIONS TO BUILDING #172, C.H.I.

DRAWING INDEX - LOCATION PLANS

CODE ID. NO. 80091
DRAWING SIZE D
SCALE: AS NOTED
CONST. CONTRACT NO. N62472-92-C-1671
SPEC. 04-92-1671
NAVFAC DRAWING NO. 2160322
N.E.T.C. DRAWING NO. 30057-297
SHEET 1 OF 28

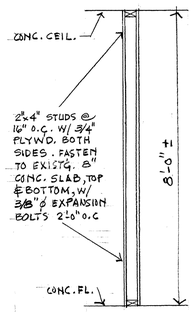
170032



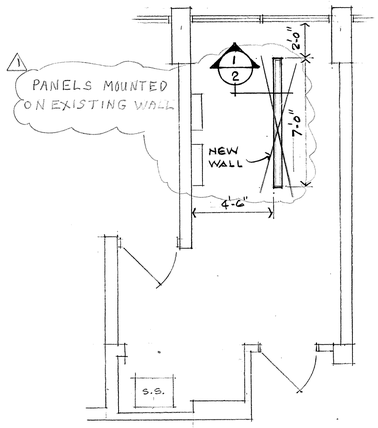
SITE PLAN SCALE: 1" = 20'

NOTES:
SEE ELECTRICAL SITE PLAN NAVFAC DWG # 2160343 FOR ELECTRICAL WORK.

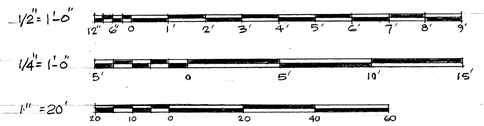
SEE NAVFAC DWG # 2160336 FOR NEW SPRINKLER MAIN.



SECTION 1/2 SCALE: 1/2" = 1'-0"



PLAN · EXISTING ELECTRIC ROOM
1ST. FL. BUILDING #442 · SCALE: 1/4" = 1'-0"



GRAPHIC SCALES

I. T. ALMY ASSOCIATES
958 REGAN ROAD
SOMERSET, MA 02726

SYMBOL	DESCRIPTION	DATE	APP'VD
1	AS BUILT 1-12-98	5/28/98	
7/15/93			

REVISIONS

DSGN.
DR.
BR. HD.
DIV. HD.
SAT TO
DATE 7-16-93

APPROVED
DATE 7/19/93

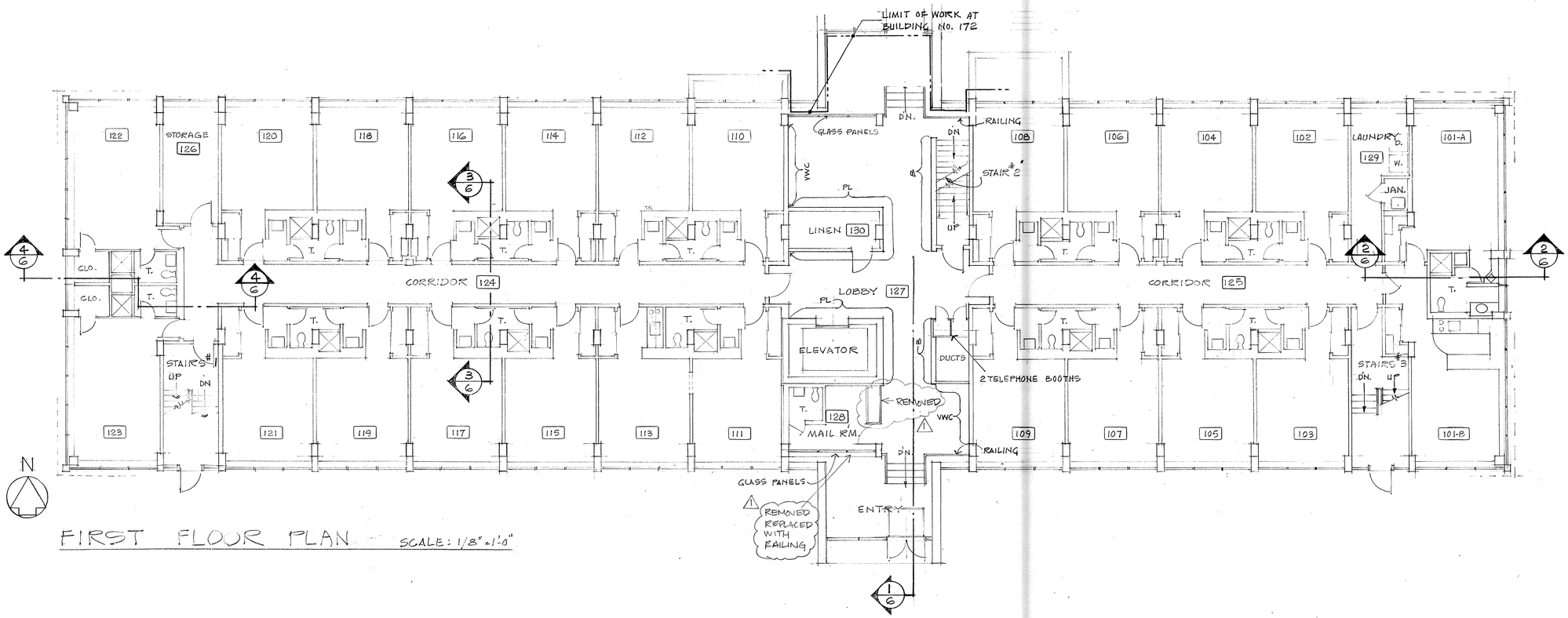
THOMAS BOYD ALMY No. 452 REGISTERED ARCHITECT

DEPARTMENT OF THE NAVY
NAVAL EDUCATION AND TRAINING CENTER
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

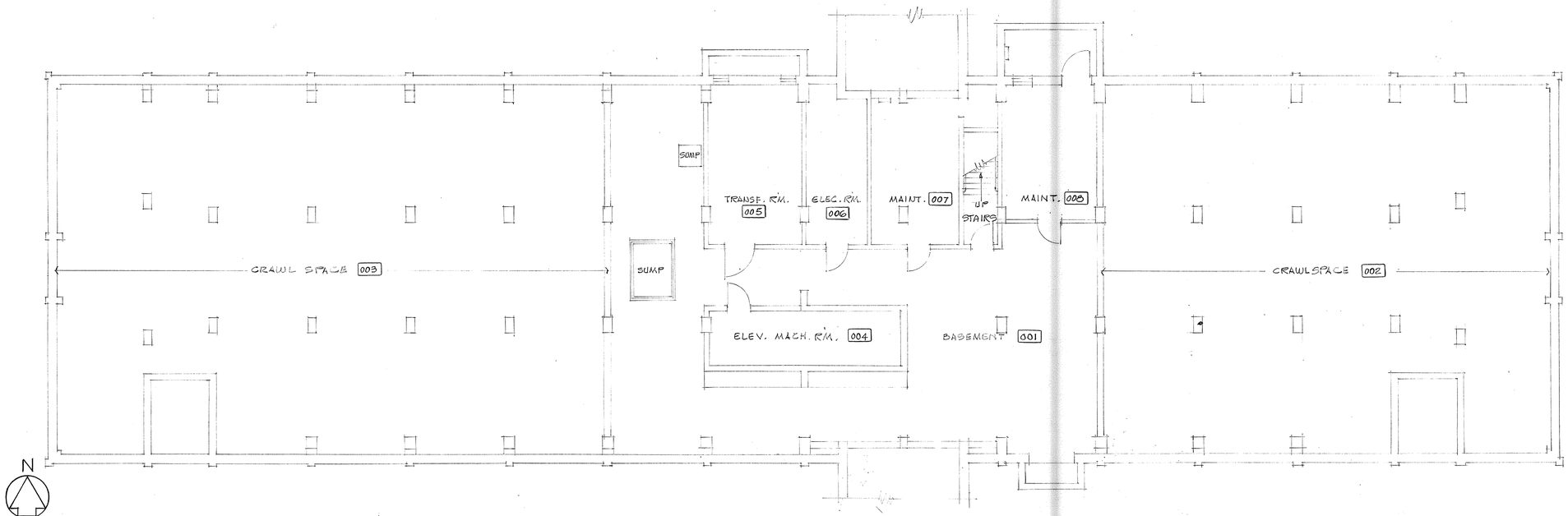
ALTERATIONS TO BUILDING #172, C.H.I.

SITE PLAN & DETAILS

CODE ID. NO. 80091
DRAWING SIZE D
SCALE: AS NOTED
CONST. CONTRACT NO. N62472-92-C-1671
SPEC. 04-92-1671
NAVFAC DRAWING NO. 2160323
N.E.T.C. DRAWING NO. 30058-297
SHEET 2 OF 28



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



BASEMENT & CRAWL SPACE PLAN SCALE: 1/8" = 1'-0"

NOTE!
FOR TYPICAL SECTIONS THRU EXISTING BUILDING SEE NAVFAC DRAWING No. 2160327

EXISTING PLANS/SECTIONS ARE FOR INFORMATION ONLY.

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

I. T. ALMY ASSOCIATES
958 REGAN ROAD
SOMERSET, MA 02726

SYMBOL	DESCRIPTION	DATE	APP'VD
1	AS BUILT 1-12-98	5-28-98	WD

REVISIONS

DSGN.
DR.
BR. HD. [signature]
DIV. HD.
APPROVED SAT TO [signature] DATE 7-16-93
DATE 7/19/93

APPROVED [signature]

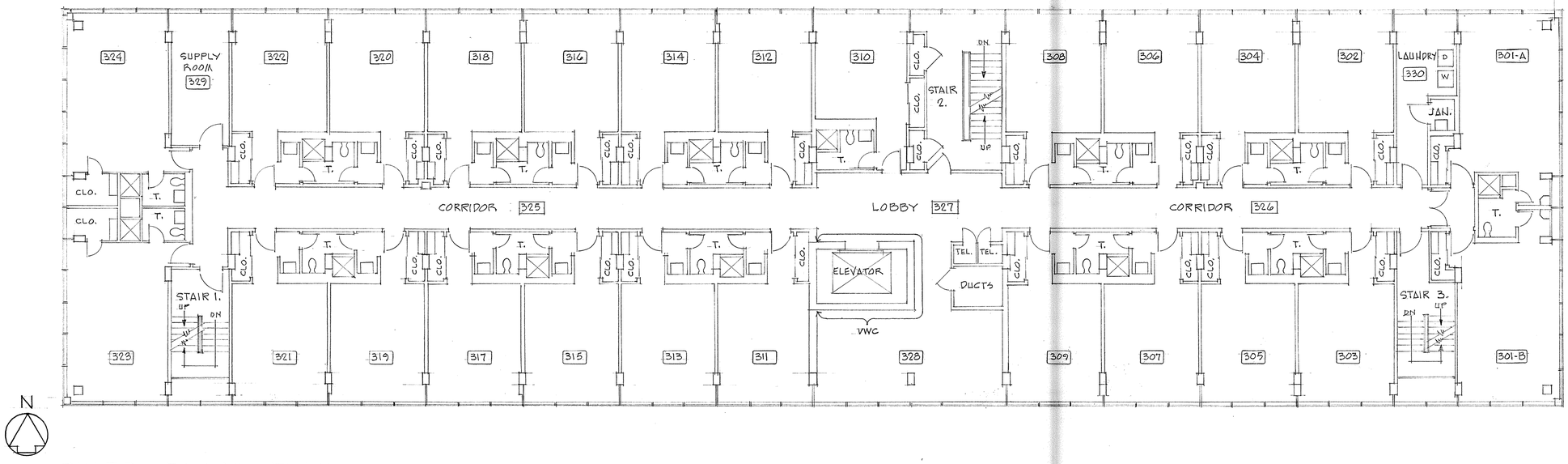
THOMAS BOYD ALMY No. 452 REGISTERED ARCHITECT

DEPARTMENT OF THE NAVY
NAVAL EDUCATION AND TRAINING CENTER
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

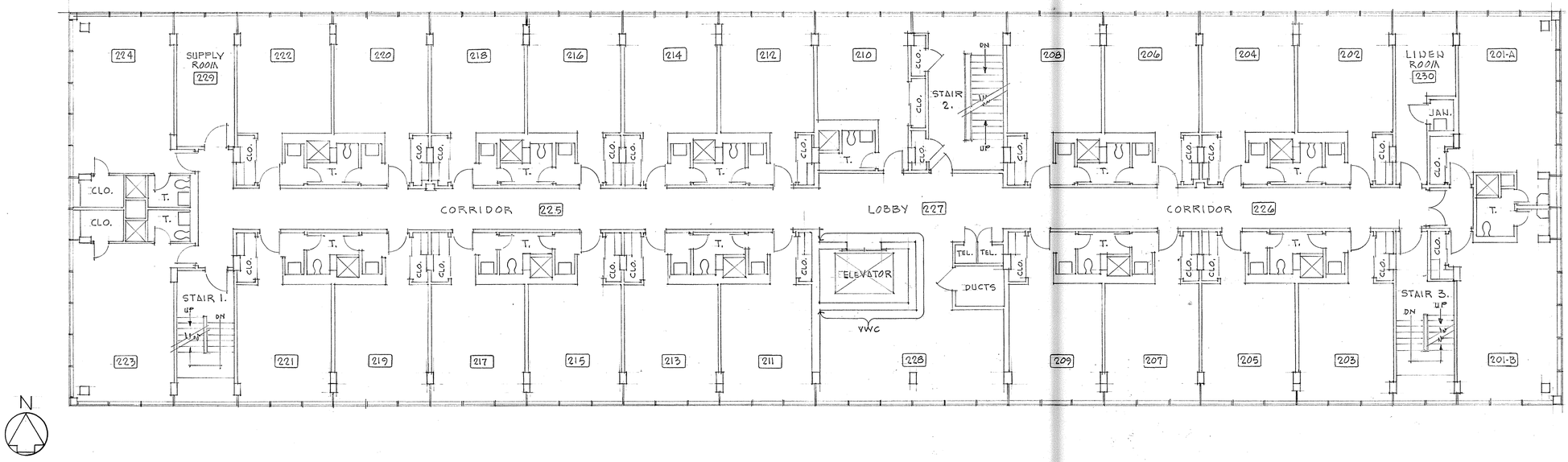
ALTERATIONS TO BUILDING #172, C.H.I.

BASEMENT & 1ST. FLOOR PLANS - EXISTING

CODE ID. NO. 80091
DRAWING SIZE D
SCALE: AS NOTED
CONST. CONTRACT NO. N62472-92-C-1671
SPEC. 04-92-1671
NAVFAC DRAWING NO. 2160324
N.E.T.C. DRAWING NO. 30059-297
SHEET 3 OF 28



THIRD FLOOR PLAN SCALE 1/8" = 1'-0"



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

NOTE!
FOR TYPICAL SECTIONS THRU EXISTING BUILDING SEE "1ST. FLOOR PLAN - EXISTING" NAVFAC DRAWING No. 2160324

EXISTING PLANS/SECTIONS ARE FOR INFORMATION ONLY.

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

I. T. ALMY ASSOCIATES
958 REGAN ROAD
SOMERSET, MA 02726

SYMBOL	DESCRIPTION	DATE	APP'VD
	AS BUILT 1-12-98 NO CHANGES	5/28/98	

REVISIONS

DSGN.
DR.
BR. HD.
DIV. HD.
SAT TO
DATE 7-16-93

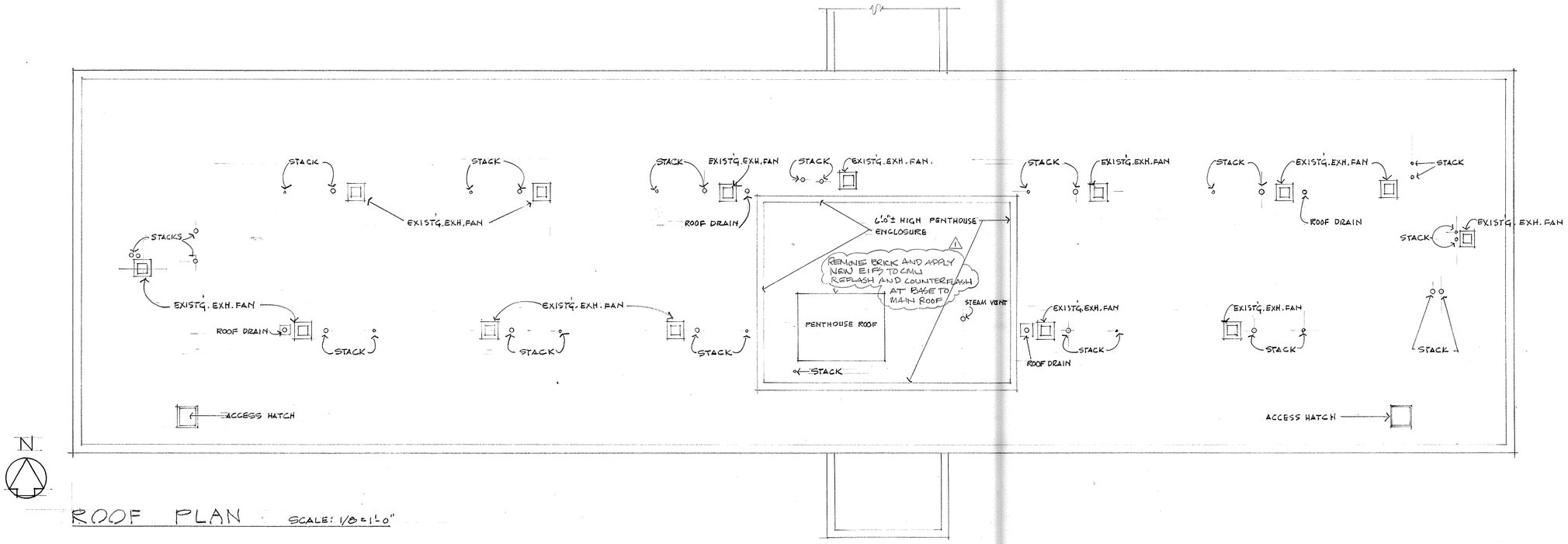
APPROVED
SATISFACTORY TO
DATE 7/14/93

THOMAS BOYD ALMY
No. 452
REGISTERED ARCHITECT

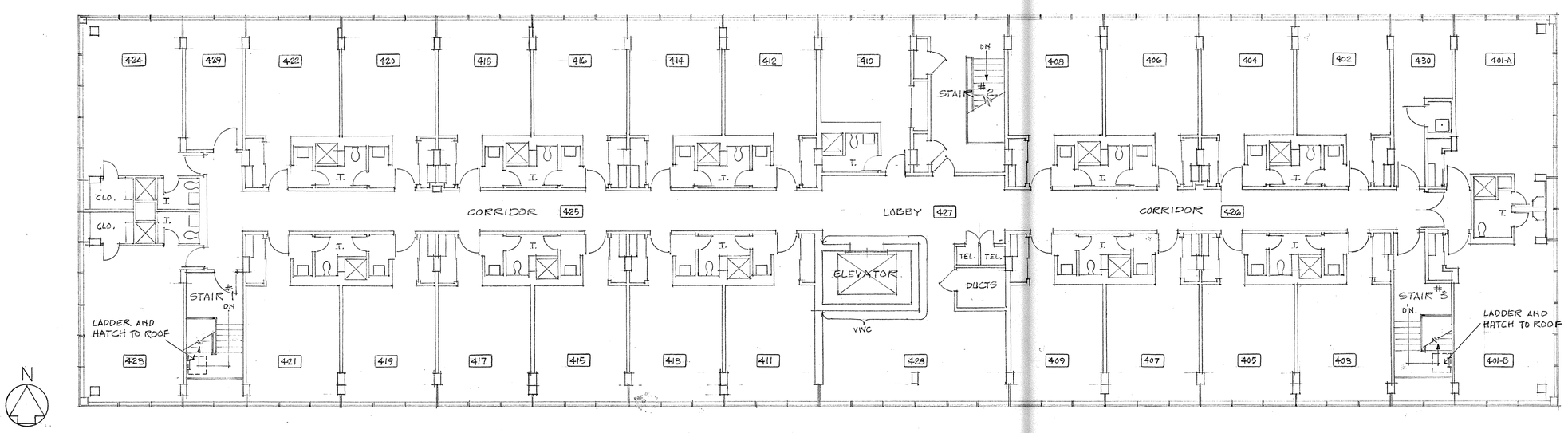
DEPARTMENT OF THE NAVY
NAVAL EDUCATION AND TRAINING CENTER
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

ALTERATIONS TO BUILDING #172, C.H.I.
2ND. & 3RD. FLOOR PLANS-EXISTING

CODE ID. NO. 80091
DRAWING SIZE D
SCALE: AS NOTED
CONST. CONTRACT NO. N62472-92-C-1671
SPEC. 04-92-1671
NAVFAC DRAWING NO. 2160325
N.E.T.C. DRAWING NO. 30060-297
SHEET 4 OF 28



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



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

NOTE!
FOR TYPICAL SECTIONS THRU EXISTING BUILDING, SEE "1ST FLOOR PLAN-EXISTING" NAVFAC DRAWING No. 2160324

EXISTING PLANS/SECTIONS ARE FOR INFORMATION ONLY.

1/8"=1'-0" 10 5 0 10 20

GRAPHIC SCALE

I. T. ALMY ASSOCIATES
958 REGAN ROAD
SOMERSET, MA 02726

SYMBOL	DESCRIPTION	DATE	APP'VD
1	AS BUILT 1-12-98	5-28-98	MD

REVISIONS

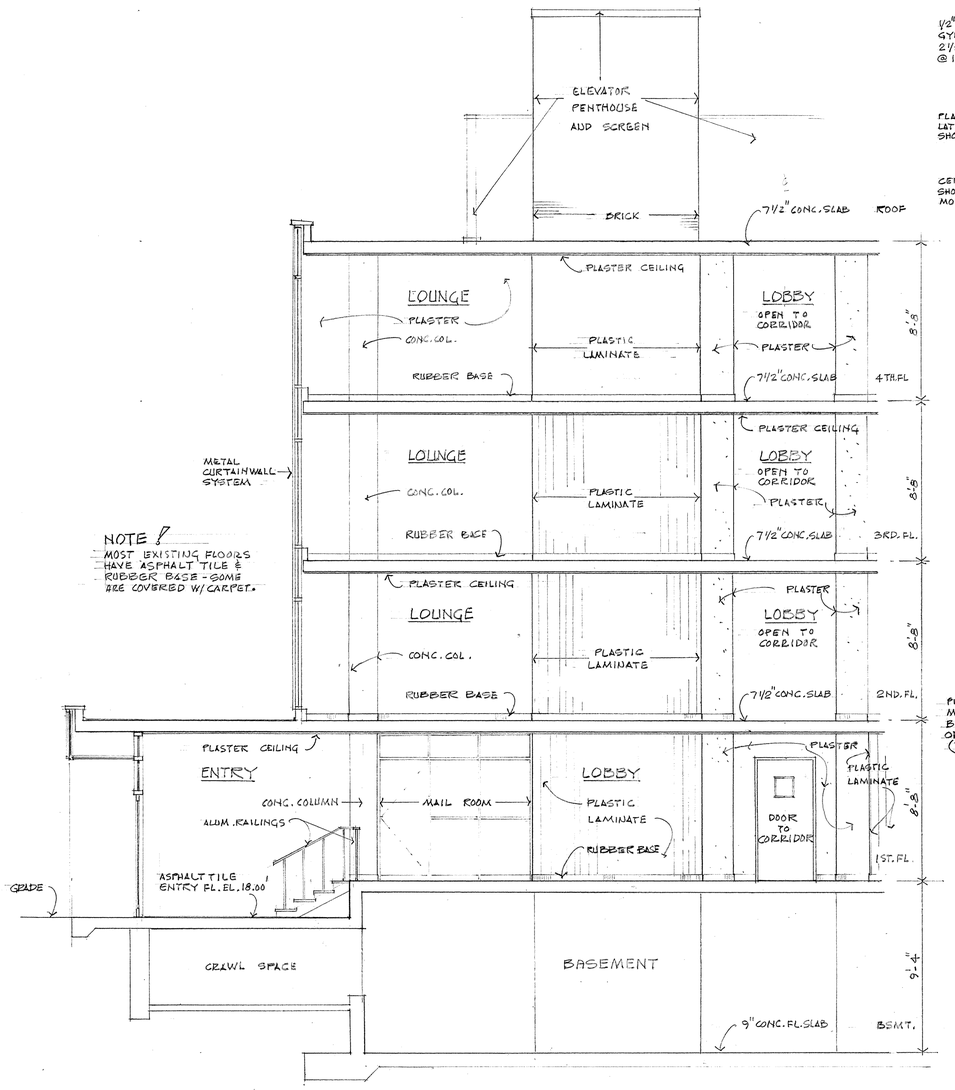
DSGN.
DR.
BR. HD. [signature]
DIV. HD. 7/15/93
APPROVED SAT TO [signature] DATE 7-16-93

APPROVED SATISFACTORY TO [signature] DATE 7/19/93

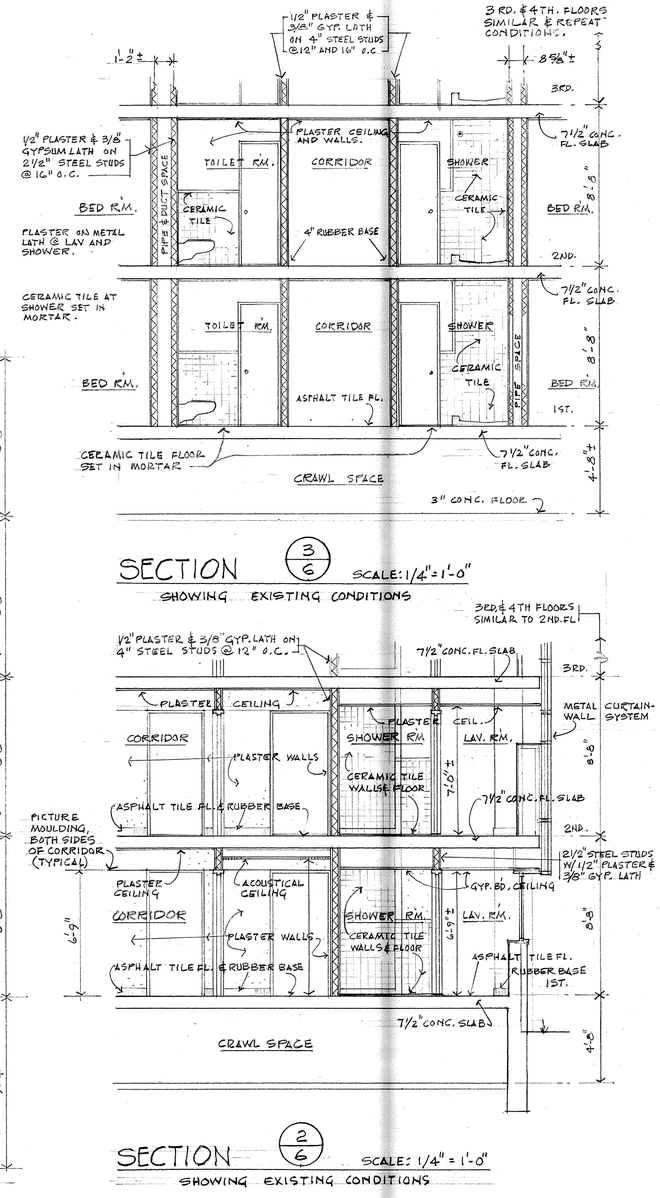
DEPARTMENT OF THE NAVY
NAVAL EDUCATION AND TRAINING CENTER
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

ALTERATIONS TO BUILDING #172, C.H.I.
4TH FLOOR & ROOF PLANS-EXISTING

CODE ID. NO. 80091
DRAWING SIZE D
SCALE: AS NOTED
CONST. CONTRACT NO. N62472-92-C-1671
SPEC. 04-92-1671
NAVFAC DRAWING NO. 2160326
N.E.T.C. DRAWING NO. 30061-297
SHEET 5 OF 28

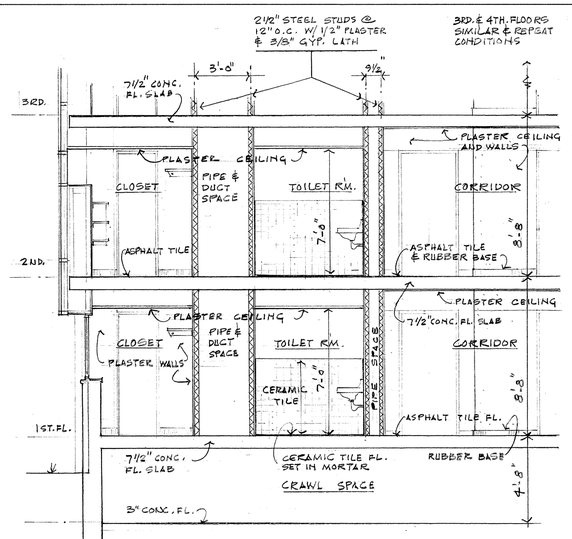


SECTION 1/6 SCALE: 1/4" = 1'-0" SHOWING EXISTING CONDITIONS



SECTION 3/6 SCALE: 1/4" = 1'-0"
SHOWING EXISTING CONDITIONS

SECTION 2/6 SCALE: 1/4" = 1'-0"
SHOWING EXISTING CONDITIONS



SECTION 4/6 SCALE: 1/4" = 1'-0"
SHOWING EXISTING CONDITIONS

NOTE:
SEE FLOOR PLANS, SHEETS 3, 4, & 5 FOR EXISTING CONDITIONS
NAVFAC DRAWINGS # 2160324, # 2160325 & # 2160326.

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

I. T. ALMY ASSOCIATES
958 REGAN ROAD
SOMERSET, MA 02726

SYMBOL	DESCRIPTION	DATE	APP'VD
	AS BUILT 1-12-98 NO CHANGES	5/20/98	DLY

REVISIONS

DSGN.
DR.
BR. HD. J. Galuska 7/15/93
DIV. HD.
APPROVED SAT TO DATE 7-16-93

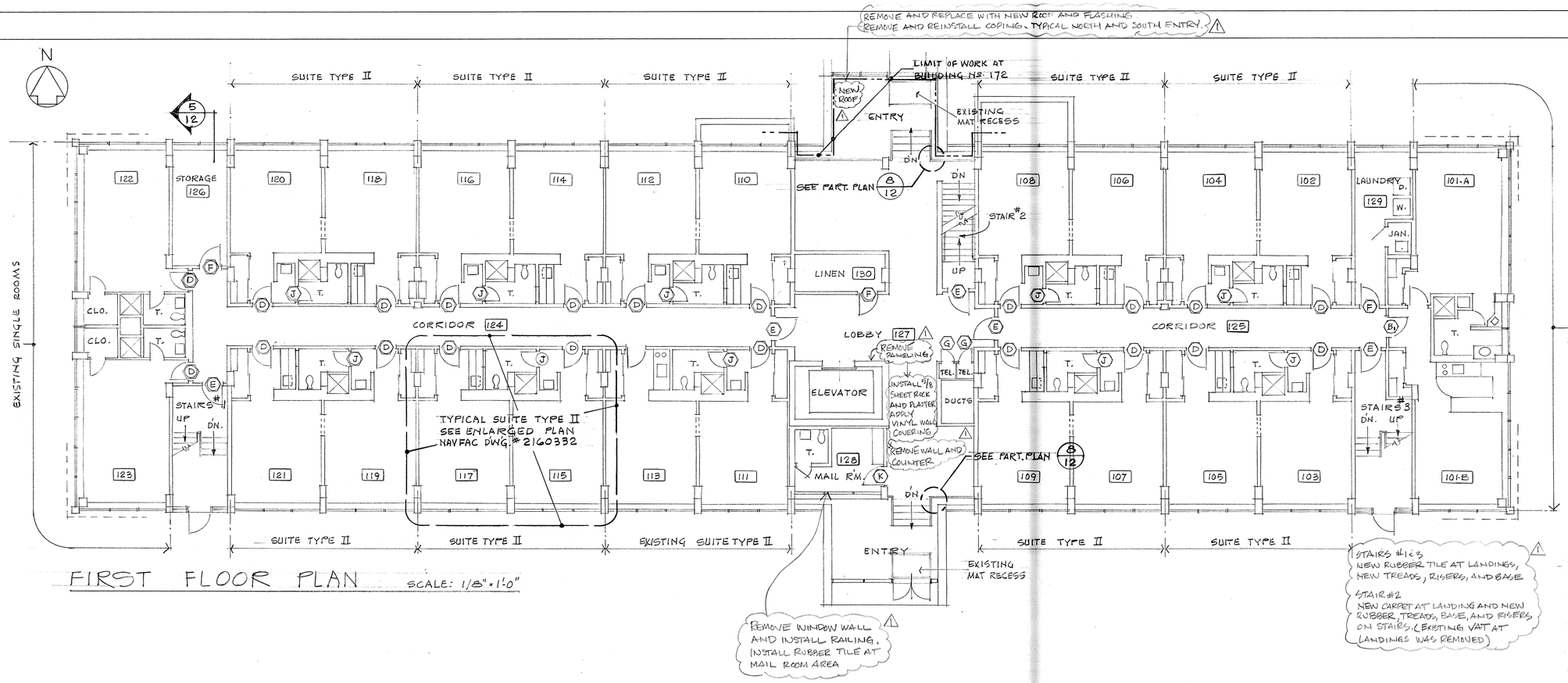
APPROVED SATISFACTORY TO DATE 7/16/93

DEPARTMENT OF THE NAVY
NAVAL EDUCATION AND TRAINING CENTER
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

ALTERATIONS TO BUILDING #172, C.H.I.

BUILDING SECTIONS - EXISTING

CODE ID. NO. 80091
DRAWING SIZE D
SCALE: AS NOTED
CONST. CONTRACT NO. N62472-92-C-1671
SPEC. 04-92-1671
NAVFAC DRAWING NO. 2160327
N.E.T.C. DRAWING NO. 30062-297
SHEET 6 OF 28



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

NOTES:

1. FOR OUTLINE OF WORK IN ALL AREAS INCLUDING TYPICAL SUITES TYPE I AND II, SEE SPECIFICATIONS SECTION 02000.

2. FOR THE EXTENT OF ASBESTOS PLASTER CEILING REMOVAL, EXISTING SUSPENDED CEILING LOCATIONS AND NEW SUSPENDED CEILING LOCATIONS SEE NAV FAC DWG # 2160336 AND # 2160337

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

I. T. ALMY ASSOCIATES
958 REGAN ROAD
SOMERSET, MA 02726

SYMBOL	DESCRIPTION	DATE	APP'VD
△	AS BUILT 1-12-96	5-28-96	MD

REVISIONS

DSGN.
DR.
BR. HD. 7/15/92
DIV. HD.
SAT TO
DATE 2-16-93

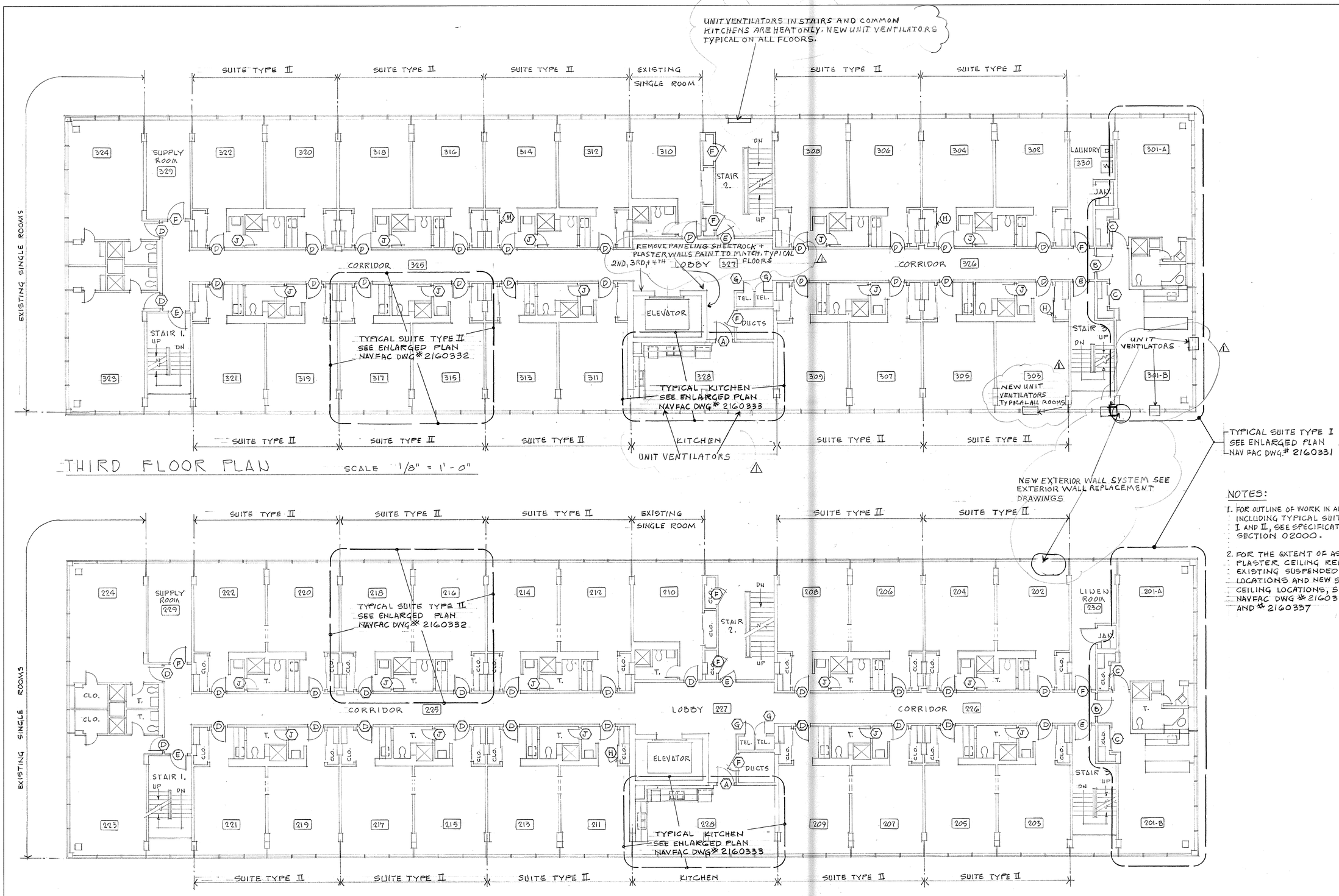
APPROVED
SAT TO
DATE 7/18/93

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL EDUCATION AND TRAINING CENTER
NEWPORT, R.I.

ALTERATIONS TO BUILDING #172, C.H.I.

1 ST. FLOOR PLAN - NEW

CODE ID. NO. 80091
DRAWING SIZE D
SCALE: AS NOTED
CONST. CONTRACT NO. N62472-92-C-1671
SPEC. 04-92-1671
NAVFAC DRAWING NO. 2160328
N.E.T.C. DRAWING NO. 30063-297
SHEET 7 OF 28



THIRD FLOOR PLAN SCALE 1/8" = 1'-0"

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

NOTES:

1. FOR OUTLINE OF WORK IN ALL AREAS INCLUDING TYPICAL SUITES TYPE I AND II, SEE SPECIFICATIONS SECTION 02000.
2. FOR THE EXTENT OF ASBESTOS PLASTER CEILING REMOVAL, EXISTING SUSPENDED CEILING LOCATIONS AND NEW SUSPENDED CEILING LOCATIONS, SEE NAVFAC DWG # 2160336 AND # 2160337

1/8" = 1'-0"

GRAPHIC SCALE

I. T. ALMY ASSOCIATES
958 REGAN ROAD
SOMERSET, MA 02726

SYMBOL	DESCRIPTION	DATE	APP'VD
	AS BUILT 1-12-98	5/28/98	

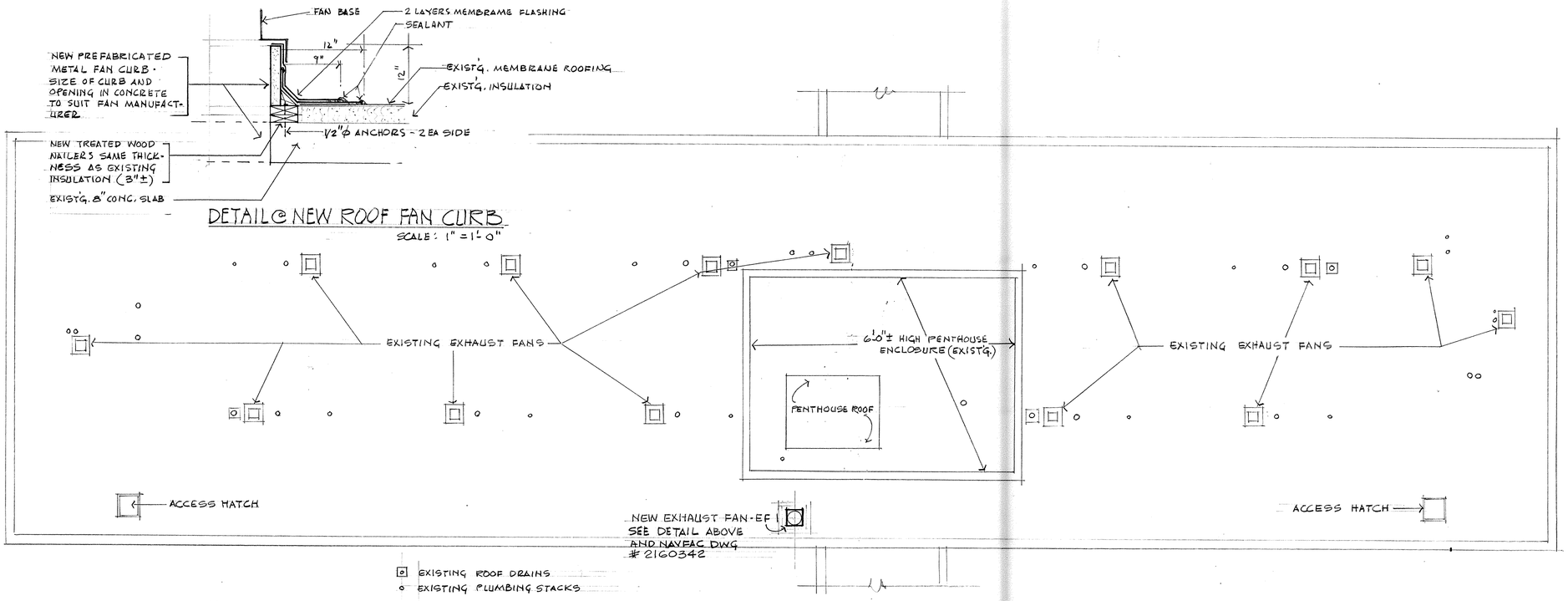
REVISIONS

DSGN.
DR.
BR. HD.
DIV. HD.
APPROVED SAT TO
DATE 7-16-93

DEPARTMENT OF THE NAVY
NAVAL EDUCATION AND TRAINING CENTER
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

ALTERATIONS TO BUILDING # 172, C.H.I.
2ND. & 3RD. FLOOR PLANS - NEW

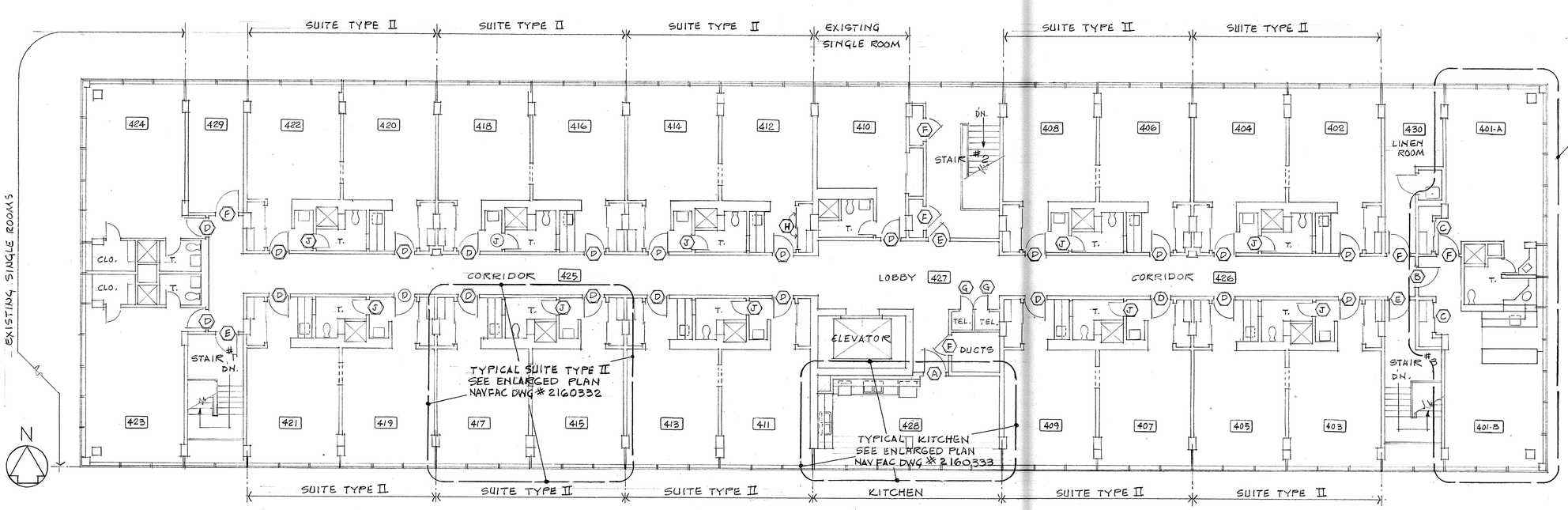
CODE ID. NO. 80091
DRAWING SIZE D
SCALE: AS NOTED
CONST. CONTRACT NO. N62472-92-C-1671
SPEC. 04-92-1671
NAVFAC DRAWING NO. 2160329
N.E.T.C. DRAWING NO. 30064-297
SHEET 8 OF 28



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

NOTES:

1. FOR OUTLINE OF WORK IN ALL AREAS INCLUDING TYPICAL SUITES TYPE I AND II, SEE SPECIFICATIONS SECTION 02000.
2. FOR EXTENT OF ASBESTOS PLASTER CEILING REMOVAL, EXISTING SUSPENDED CEILING LOCATIONS, AND NEW SUSPENDED CEILING LOCATIONS, SEE NAVFAC DWG. #2160336 AND #2160337



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

1/8" = 1'-0"

GRAPHIC SCALES

I. T. ALMY ASSOCIATES
958 REGAN ROAD
SOMERSET, MA 02726

SYMBOL	DESCRIPTION	DATE	APP'VD
	ASBUILT 1-12-98 NO CHANGE	5-28-98	MD

REVISIONS

DSGN.
DR.
BR. HD.
DIV. HD.
APPROVED SAT TO
DATE 2-16-93

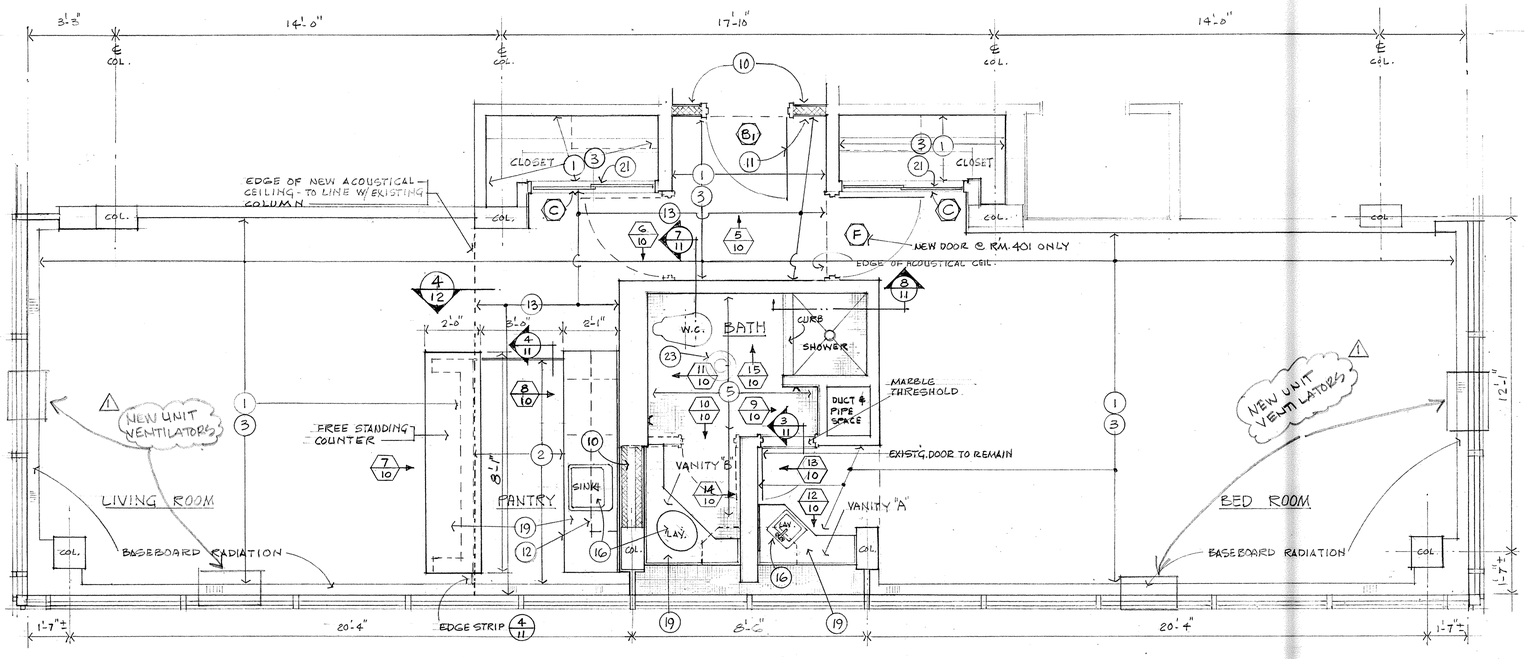
APPROVED
DATE 7/19/93

DEPARTMENT OF THE NAVY
NAVAL EDUCATION AND TRAINING CENTER
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

ALTERATIONS TO BUILDING #172, C.H.I.

4TH. FLOOR & ROOF PLANS - NEW

CODE ID. NO. 80091
DRAWING SIZE D
SCALE: AS NOTED
CONST. CONTRACT NO. N62472-92-C-1671
SPEC. 04-92-1671
NAVFAC DRAWING NO. 2160330
N.E.T.C. DRAWING NO. 30065-297
SHEET 9 OF 28



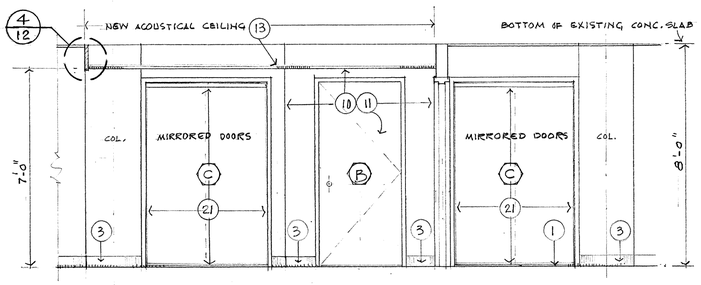
NEW PLAN • SUITES TYPE I • 2ND., 3RD. & 4TH. FLOORS

SCALE: 3/8" = 1'-0"

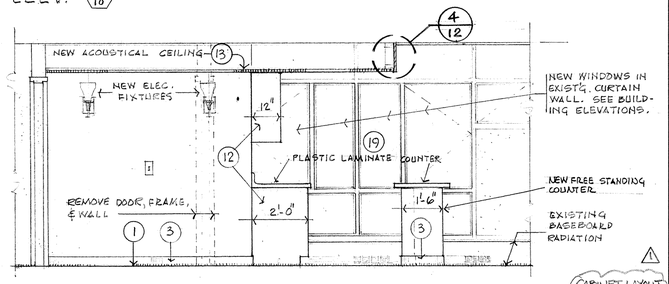
SYMBOLS & NOTES

- (1) — INDICATES REMOVAL WORK — SEE SPECIFICATION SECTION 02000
- (7) — INDICATES NEW WORK — SEE SPECIFICATION SECTION 02000
- (B) — INDICATES DOOR TYPE — SEE NAV FAC DWG. # 2160334
- (6/10) — INDICATES ELEVATION — SEE THIS SHEET
- STUD & PLASTER PARTITIONS AND/OR INFILL

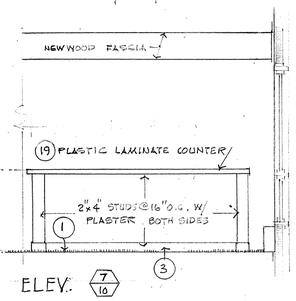
FOR BASE & WALL CABINETS SEE NAVFAC DWG. # 2160333
FOR VANITY CABINETS A & B SEE NAVFAC DWG # 2160333
SEE FLOOR PLANS-NEW-, 1ST. THRU 4TH FLOOR FOR LOCATIONS
(NAVFAC DRAWINGS # 2160328, # 2160329, & # 2160330)



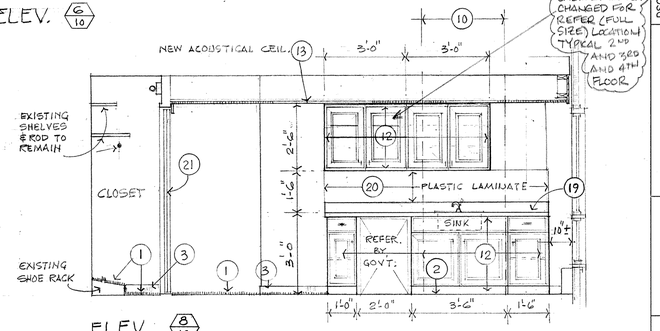
ELEV. (5/10)



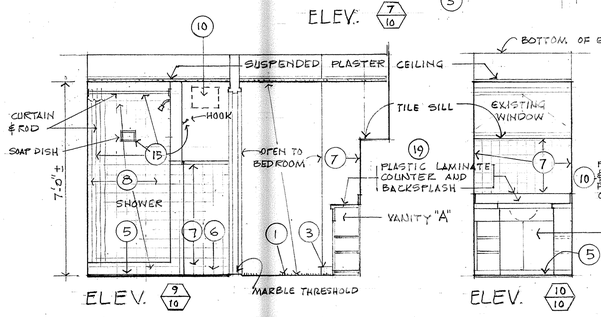
ELEV. (6/10)



ELEV. (7/10)

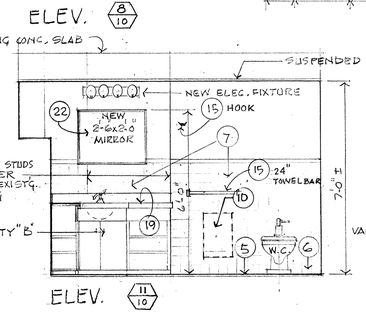


ELEV. (8/10)

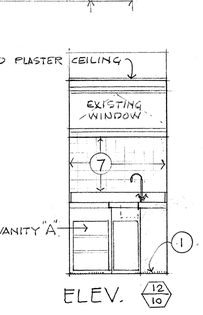


ELEV. (9/10)

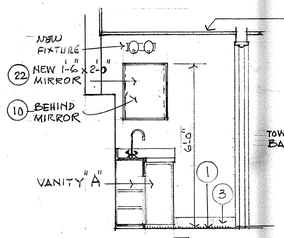
ELEV. (10/10)



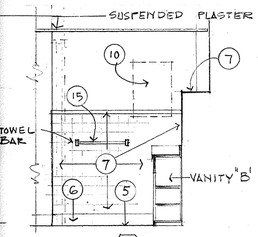
ELEV. (11/10)



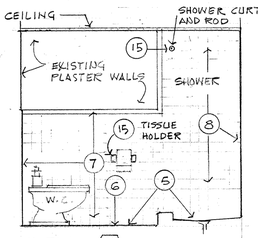
ELEV. (12/10)



ELEV. (13/10)

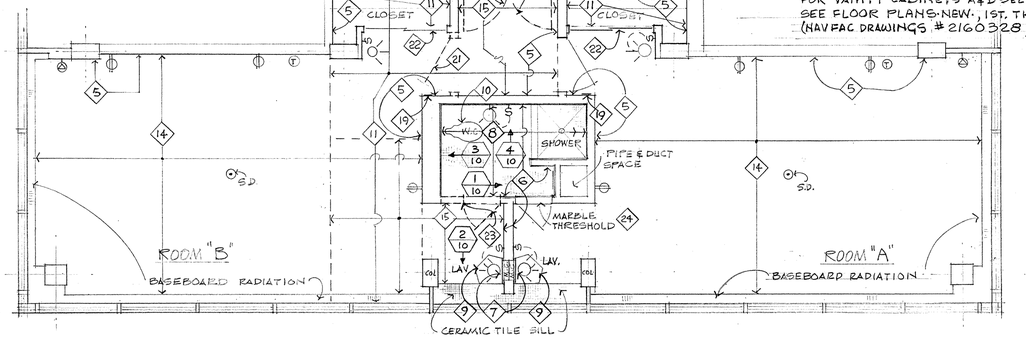


ELEV. (14/10)



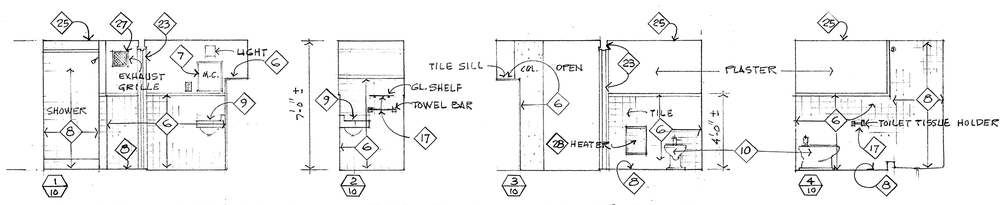
ELEV. (15/10)

ELEVATIONS • NEW WORK • SUITES TYPE I • SCALE: 3/8" = 1'-0"



EXISTING PLAN • SUITES TYPE I • 2ND., 3RD. & 4TH. FLOORS

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



EXISTING ELEVATIONS • SUITES TYPE I • TOILET ROOMS • SCALE: 1/4" = 1'-0"

GRAPHIC SCALES

I. T. ALMY ASSOCIATES
958 REGAN ROAD
SOMERSET, MA 02726

SYMBOL	DESCRIPTION	DATE	APP'VD
1	AS BUILT 1-12-98	5-28-98	MD

REVISIONS

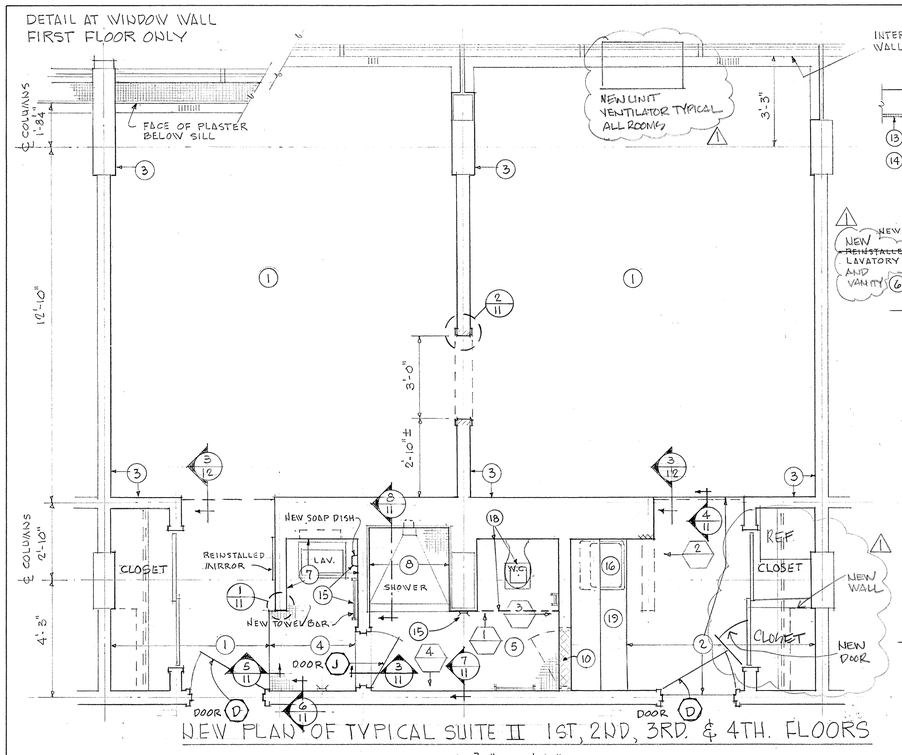
DSGN.
DR.
BR. HD.
DIV. HD.
SAT TO 2-16-93 DATE

APPROVED 7/8/93 DATE

DEPARTMENT OF THE NAVY
NAVAL EDUCATION AND TRAINING CENTER
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

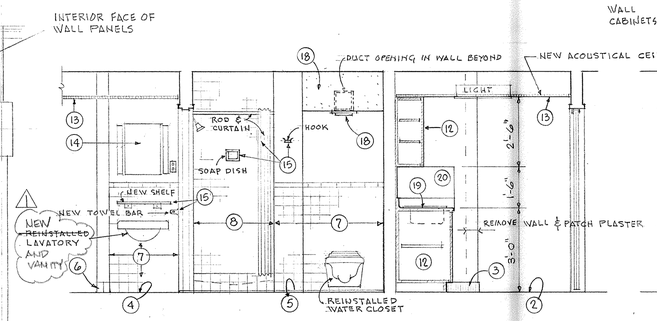
ALTERATIONS TO BUILDING #172, CH.I.
TYPE I SUITES - EXISTING & NEW

CODE ID. NO. 80091
DRAWING SIZE D
SCALE: AS NOTED
CONST. CONTRACT NO. N62472-92-C-1671
SPEC. 04-92-1671
NAVFAC DRAWING NO. 2160331
N.E.T.C. DRAWING NO. 30066-297
SHEET 10 OF 28



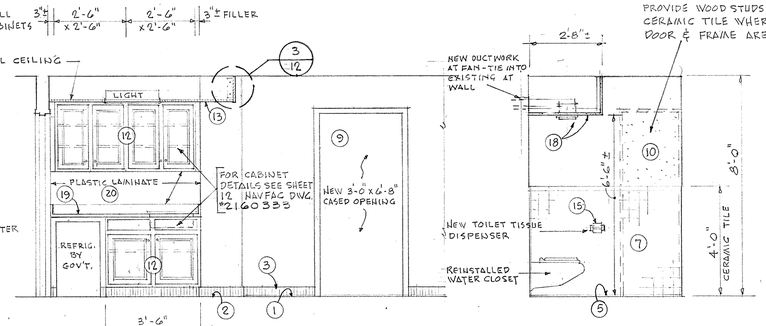
NEW PLAN OF TYPICAL SUITE II 1ST, 2ND, 3RD. & 4TH. FLOORS

SCALE 3/8" = 1'-0"



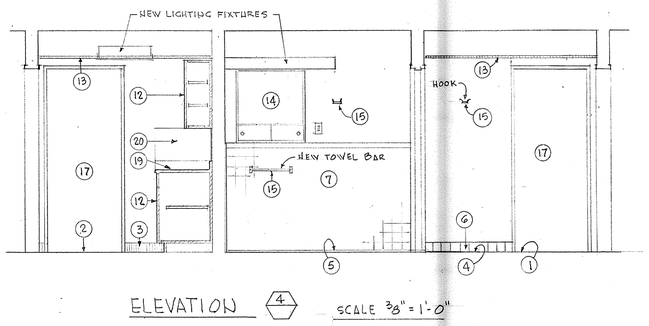
ELEVATION 1

SCALE 3/8" = 1'-0"



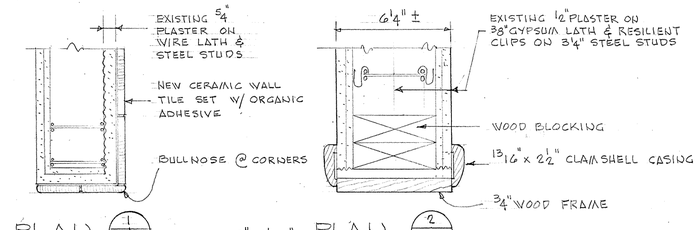
ELEVATION 2

ELEVATION 3

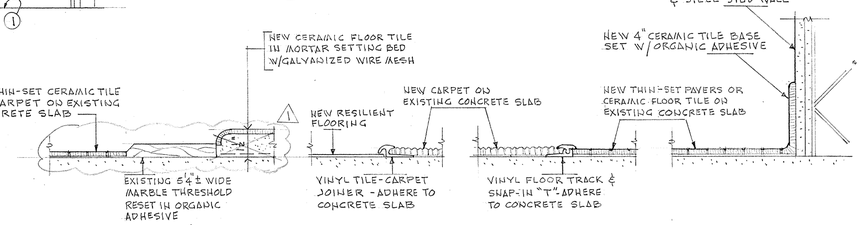


ELEVATION 4

SCALE 3/8" = 1'-0"

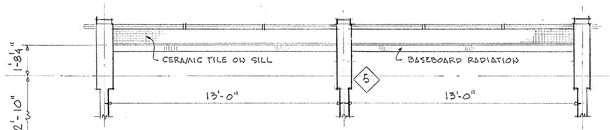


PLAN 1/11 SCALE 3" = 1'-0" PLAN 2/11

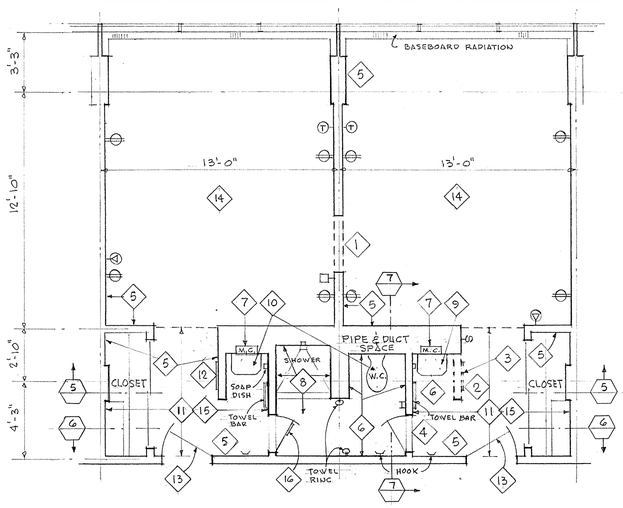


SECTION 3/11 SECTION 4/11 SECTION 5/11 SECTION 6/11

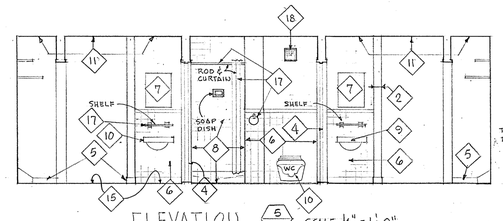
SCALE 3" = 1'-0"



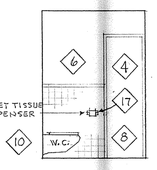
EXISTING PLAN AT WINDOW WALL FIRST FLOOR ONLY



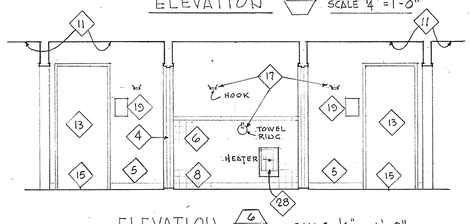
EXISTING PLAN OF TYPICAL SUITES 1ST., 2ND, 3RD & 4TH. FLOORS



ELEVATION 5 SCALE 1/4" = 1'-0"



ELEVATION 7



ELEVATION 6 SCALE 1/4" = 1'-0"

SYMBOLS

1 - INDICATES REMOVAL WORK
(1) - INDICATES NEW WORK
} SEE SPECIFICATION SECTION 02000

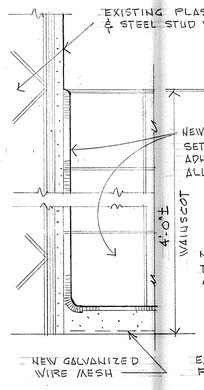
(D) - INDICATES DOOR TYPE - SEE NAVFAC DRWG. 2160334

3/8" = 1'-0"

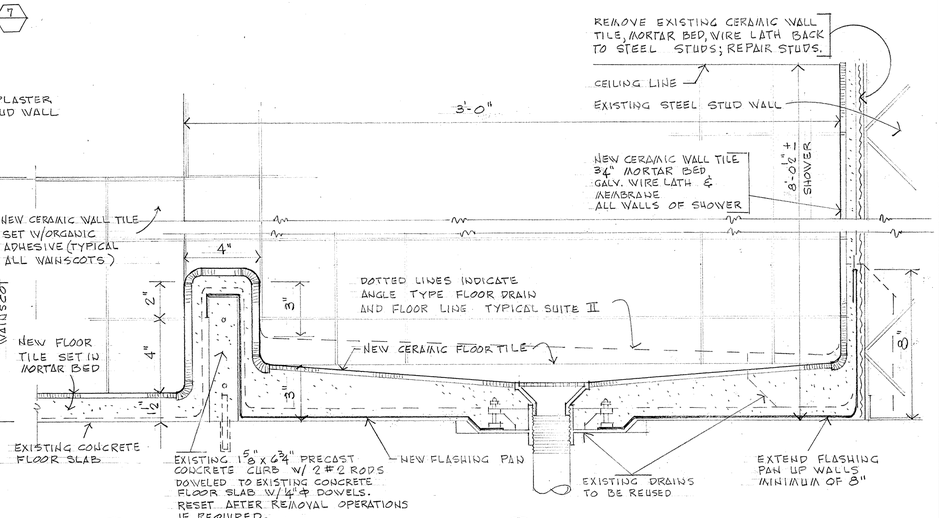
1/4" = 1'-0"

5 0 5 10

GRAPHIC SCALES



SECTION @ WAINSCOT 7/11



SECTION @ SHOWERS 8/11 SCALE 3" = 1'-0"

3" = 1'-0"

12" 9" 6" 3" 0 7'

I. T. ALMY ASSOCIATES
958 REGAN ROAD
SOMERSET, MA 02726

SYMBOL	DESCRIPTION	DATE	APPVD
1	AS-BUILT 1-12-98	5-28-96	MD

REVISIONS

DSGN.
DR.
BR. HD.
DIV. HD.

DATE 7/15/93
SAT TO DATE 7-16-93

Approved SATISFACTORY TO

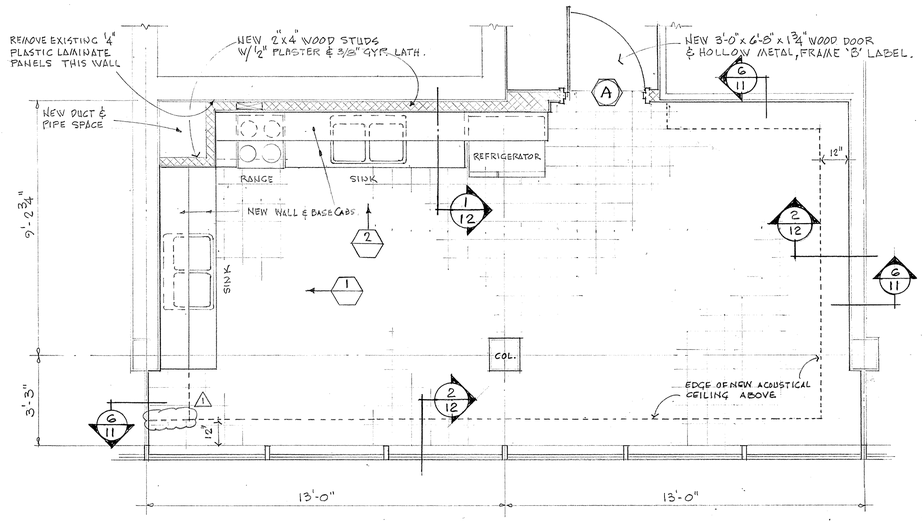
DEPARTMENT OF THE NAVY
NAVAL EDUCATION AND TRAINING CENTER
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

ALTERATIONS TO BUILDING #172, C.H.I.

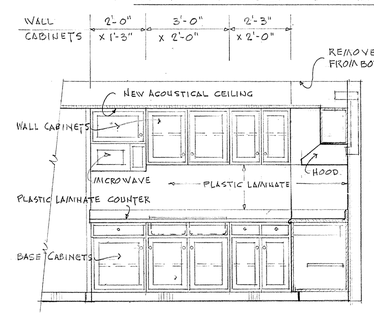
TYPE II SUITES - EXISTING & NEW

CODE ID. NO. 80091
DRAWING SIZE D
SCALE: AS NOTED
CONST. CONTRACT NO. N62472-92-C-1671
SPEC. 04-92-1671
NAVFAC DRAWING NO. 2160332
N.E.T.C. DRAWING NO. 30067-297
SHEET 11 OF 28

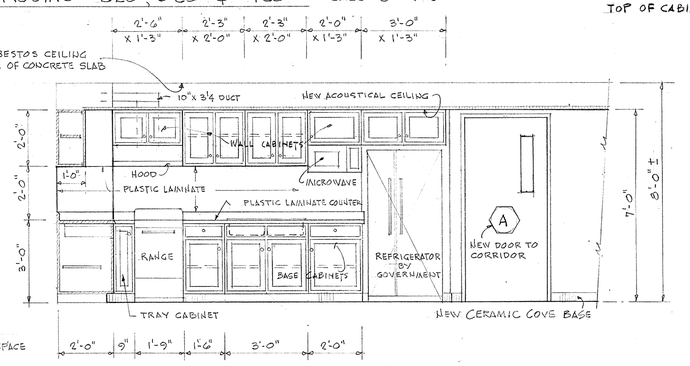
170232



NEW KITCHEN PLAN - ROOMS 228, 328 & 428 SCALE 3/8" = 1'-0"

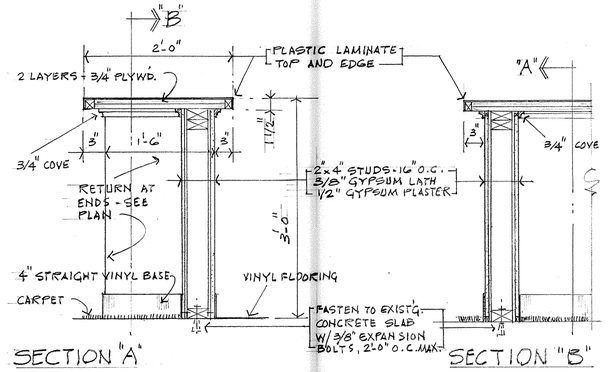


ELEVATION 1



SCALE 3/8" = 1'-0"

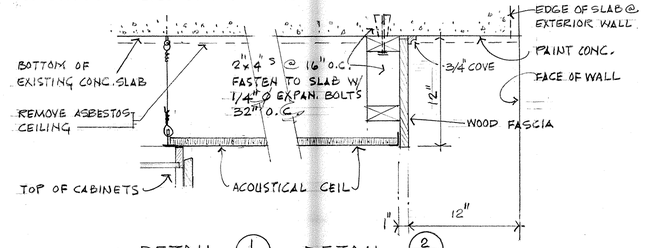
ELEVATION 2



SECTION "A" SECTION "B"

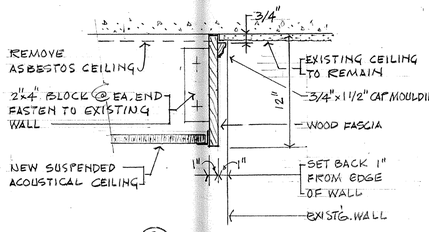
FREE-STANDING COUNTER AT SUITES TYPE I

SEE NAVFAC DWG. # 2160331 FOR LOCATION SCALE: 1" = 1'-0"

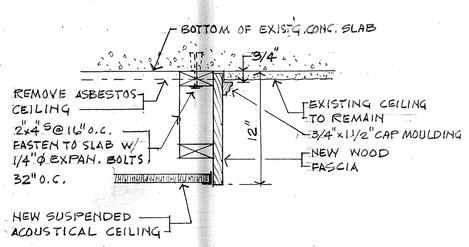


DETAIL 1/12 SCALE: 1 1/2" = 1'-0"

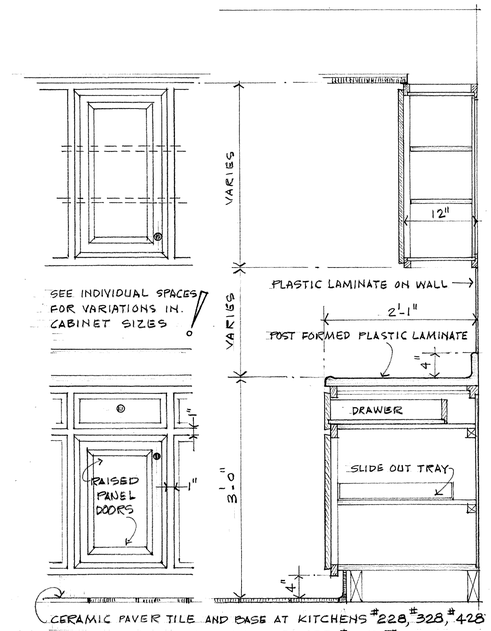
DETAIL 2/12 SCALE: 1 1/2" = 1'-0"



DETAIL 3/12 SCALE: 1 1/2" = 1'-0"

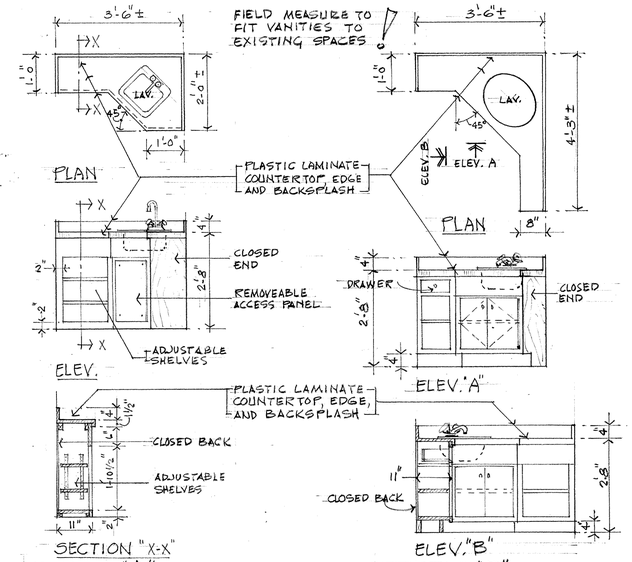


DETAIL 4/12 SCALE: 1 1/2" = 1'-0"



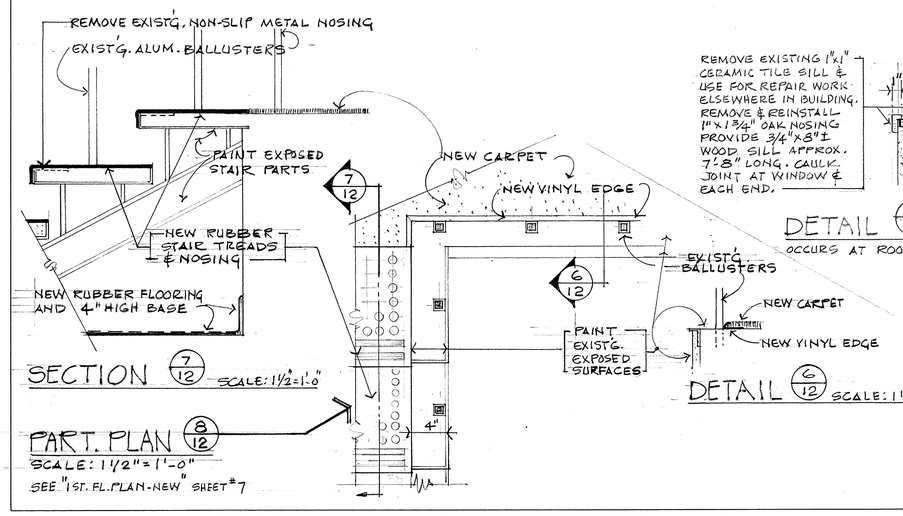
CERAMIC PAVER TILE AND BASE AT KITCHENS #228, #328, #428
RESILIENT FLOOR AND BASE AT SUITES I AND II

TYPICAL WALL & BASE CABINETS SUITES I & II & KITCHENS # 228, #328 & #428 SCALE: 1" = 1'-0"



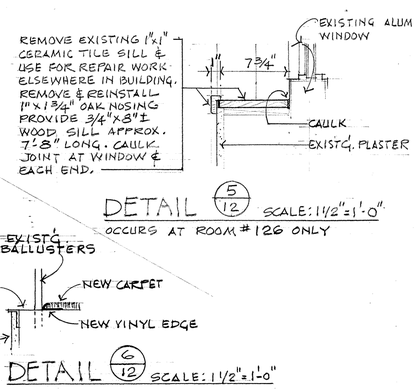
VANITY "A" SUITES TYPE I SCALE: 1/2" = 1'-0"

VANITY "B" SUITES TYPE I SCALE: 1/2" = 1'-0"



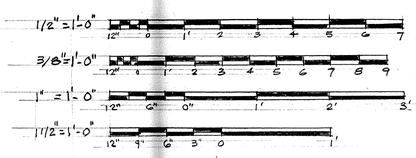
SECTION 7/12 SCALE: 1 1/2" = 1'-0"

PART. PLAN 8/12
SCALE: 1 1/2" = 1'-0"
SEE "1ST. FL. PLAN-NEW" SHEET #7



DETAIL 5/12 SCALE: 1 1/2" = 1'-0"
OCCURS AT ROOM # 126 ONLY

DETAIL 6/12 SCALE: 1 1/2" = 1'-0"



GRAPHIC SCALES

NOTE:
SEE SPECIFICATION SECTION 02000 "OUTLINE OF WORK".

I. T. ALMY ASSOCIATES
958 REGAN ROAD
SOMERSET, MA 02726

SYMBOL	DESCRIPTION	DATE	APPV'D
1	AS BUILT 1-12-98	5-28-98	MD

REVISIONS

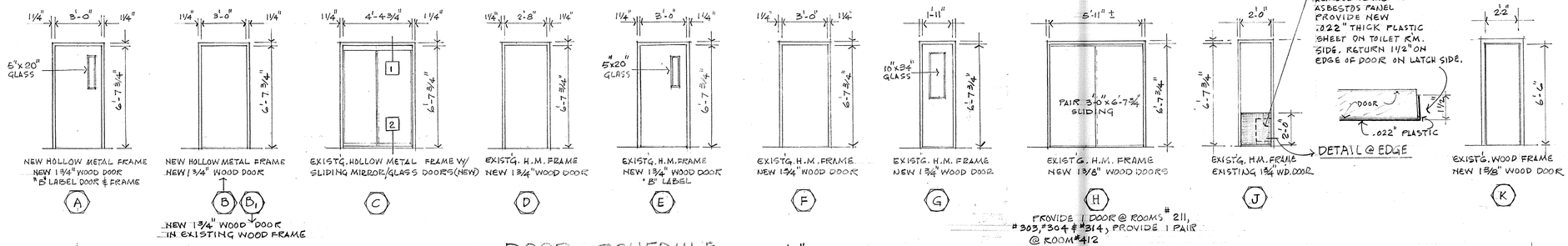
DSGN.
DR.
BR. HD.
DIV. HD. 7/15/93

APPROVED SATISFACTORY TO DATE 7/15/93

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL EDUCATION AND TRAINING CENTER
NEWPORT, R.I.

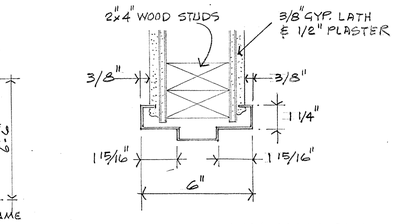
ALTERATIONS TO BUILDING #172, CHI.
KITCHEN - PLAN & DETAILS

CODE ID. NO. 80091
DRAWING SIZE D
SCALE: AS NOTED
CONST. CONTRACT NO. N62472-92-C-1671
SPEC. 04-92-1671
NAVFAC DRAWING NO. 2160333
N.E.T.C. DRAWING NO. 30068-279
SHEET 12 OF 28



DOOR SCHEDULE 1/4" = 1'-0"

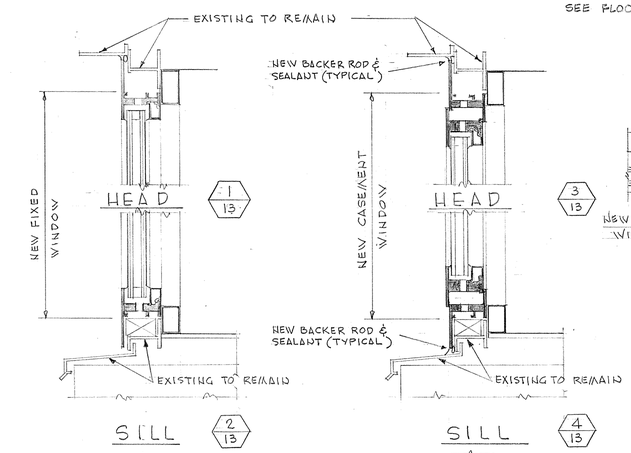
SEE FLOOR PLANS FOR DOOR LOCATIONS - DOORS SHOWN ON FLOOR PLANS WITHOUT SYMBOL ARE EXISTING DOORS TO REMAIN.

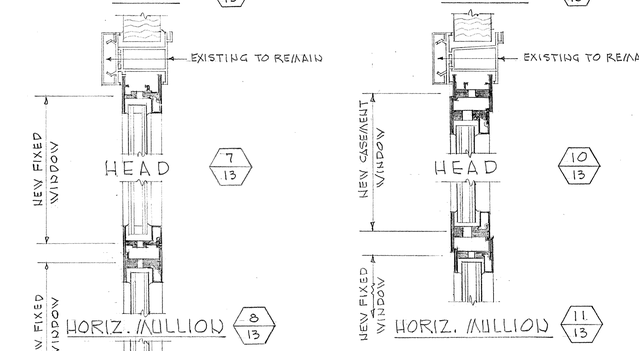


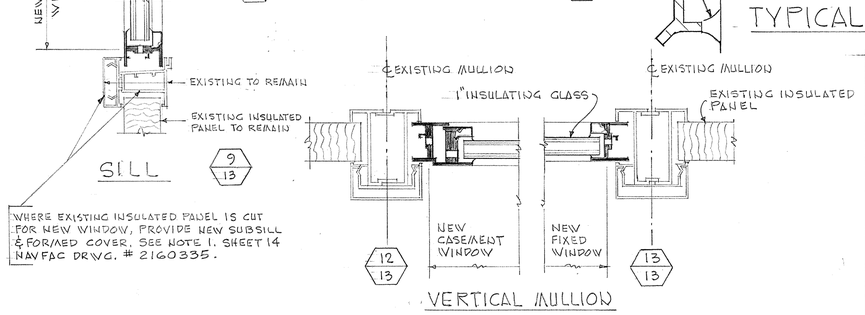
TYPICAL NEW HOLLOW METAL DOOR FRAME

SCALE: 3" = 1'-0"

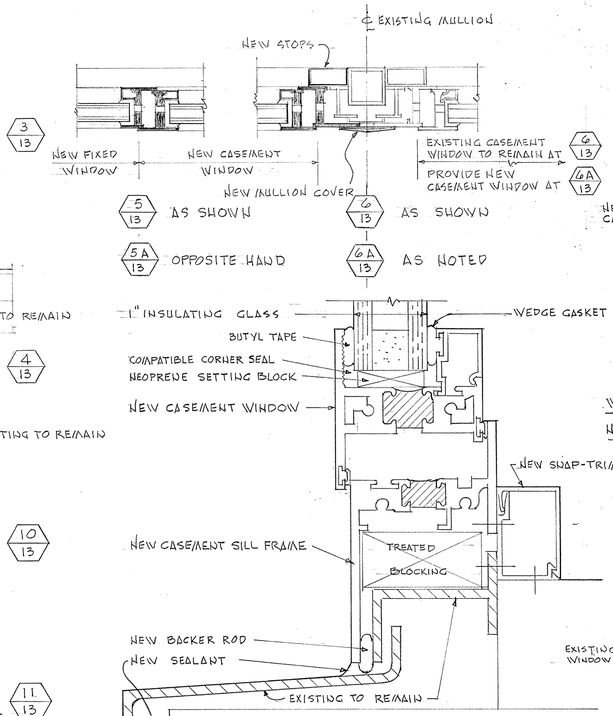
EXISTING HOLLOW METAL FRAMES SIMILAR WIDTHS VARY WITH WALL THICKNESS



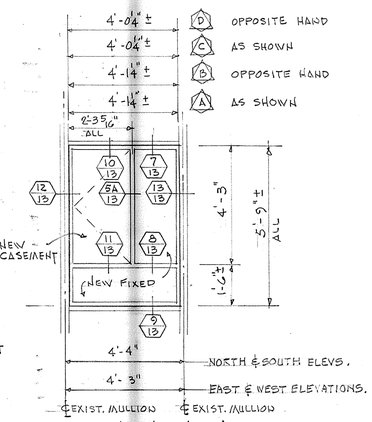




WINDOW SECTIONS SCALE 3" = 1'-0"

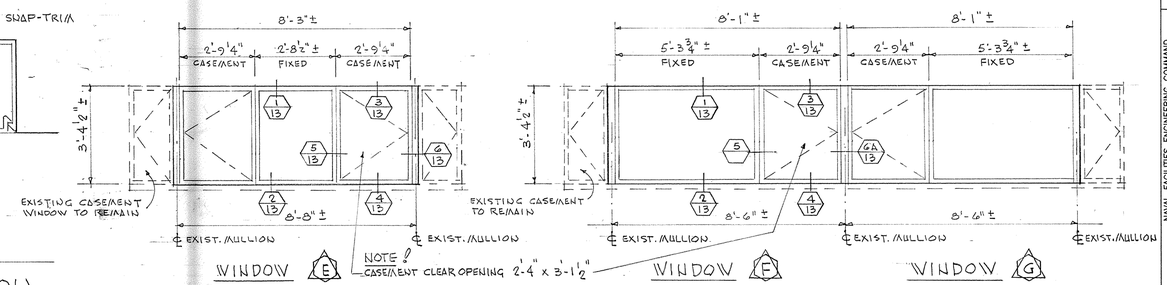


TYPICAL FULL SIZE SECTION



WINDOWS A B C D

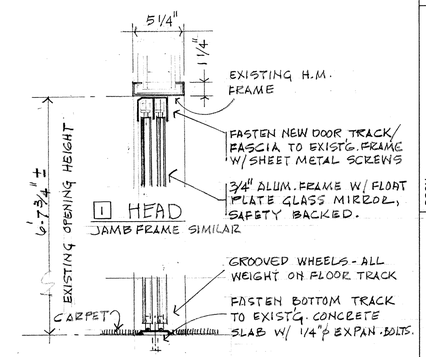
NOTE! CASEMENT CLEAR OPENING 1'-10 1/32" x 3'-11 7/8"



WINDOW ELEVATIONS SCALE 3/8" = 1'-0"

NOTES:

1. FOR WINDOW LOCATIONS SEE BUILDING ELEVATIONS ON SHEET 14 NAVFAC DWG. # 2160335



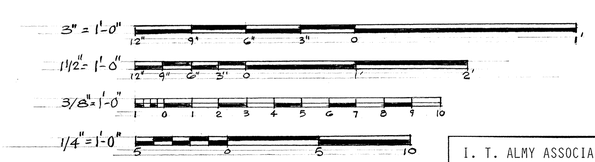
DOOR C DETAILS SCALE: 1 1/2" = 1'-0"

TYPICAL CUSTOMIZED CARD (FRONT)

MAGNETIC STRIPE KEY CARD

NO SCALE

REFER TO SPECIFICATION SECTION 08710.



GRAPHIC SCALES

I. T. ALMY ASSOCIATES
958 REGAN ROAD
SOMERSET, MA 02726

SYMBOL	DESCRIPTION	DATE	APP'VD
	NO CHANGE	5-28-98	MD
	AS BUILT 1-12-96		

REVISIONS

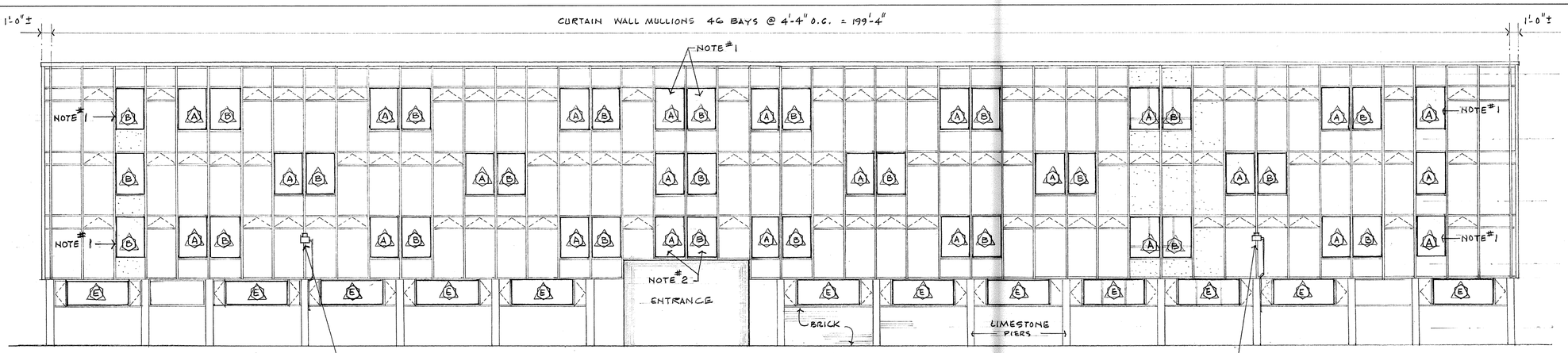
DSGN.
DR.
BR. HD. 7/15/93
DIV. HD.
~~APPROVED~~ SAT TO DATE
~~APPROVED~~ DATE 7/19/93

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL EDUCATION AND TRAINING CENTER
NEWPORT, R.I.

ALTERATIONS TO BUILDING # 172, C.H.I.
DOORS & WINDOWS SCHEDULES & DETAILS

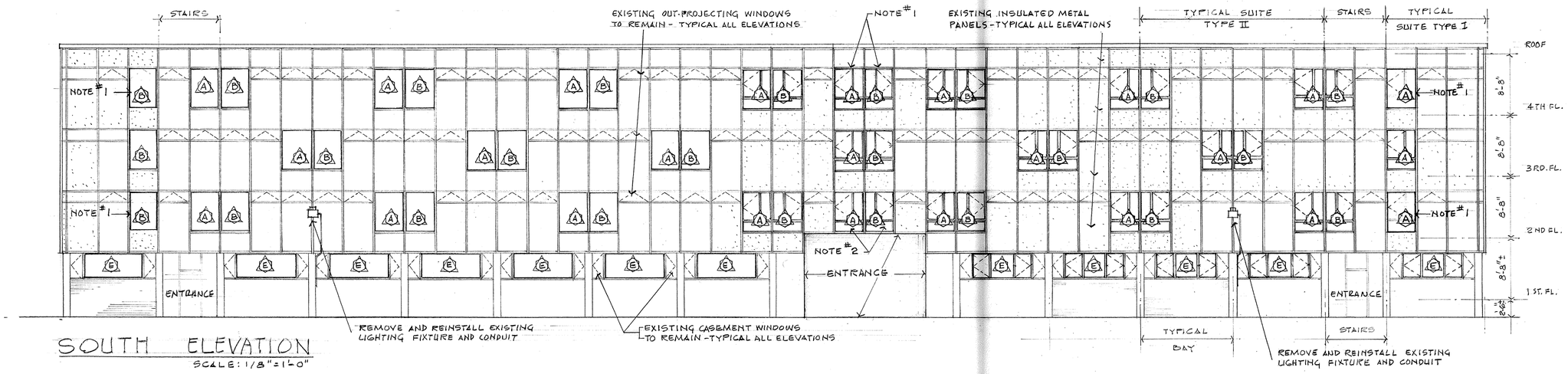
CODE ID. NO.	80091
DRAWING SIZE	D
SCALE	AS NOTED
CONST. CONTRACT NO.	N62472-92-C-1671
SPEC.	04-92-1671
NAVFAC DRAWING NO.	2160334
N.E.T.C. DRAWING NO.	30069-297
SHEET	13 OF 28

170932



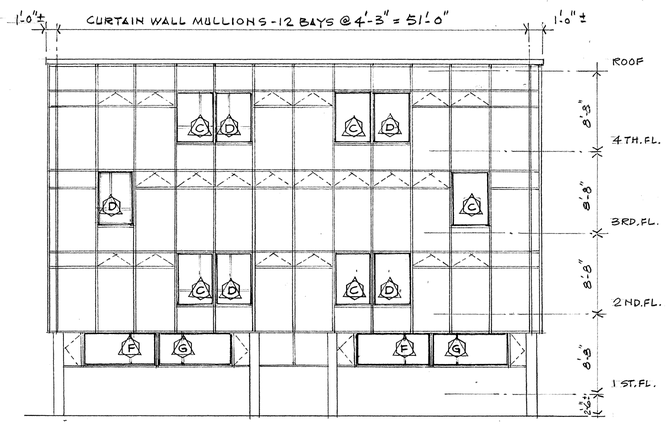
NORTH ELEVATION

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



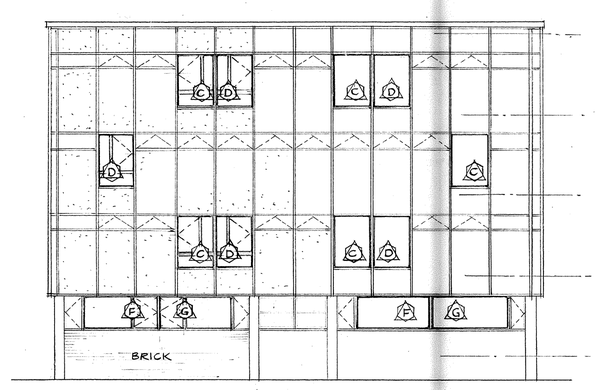
SOUTH ELEVATION

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



WEST ELEVATION

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



EAST ELEVATION

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

NOTES

1. REMOVE EXISTING OUT-PROJECTING WINDOW AND SCREEN AND CUT OFF EXISTING INSULATED METAL PANEL TO PROVIDE FOR NEW WINDOW INSTALLATION AT THIS LOCATION ONLY.
2. REMOVE EXISTING OUT-PROJECTING WINDOW AND SCREEN AND EXISTING INSULATED METAL PANEL TO PROVIDE FOR NEW WINDOW INSTALLATION AT THIS LOCATION ONLY.
3. AT ALL OTHER NEW WINDOW LOCATIONS, REMOVE EXISTING FIXED GLASS WINDOW TO PROVIDE FOR NEW WINDOW INSTALLATION.

FOR WINDOW DETAILS SEE SHEET 13, NAVFAC DWG #2160334
SEE ALSO SPECIFICATION FOR SERVICING REQUIREMENTS TO EXISTING WINDOWS AND SCREENS.

(SEE "EXTERIOR WALL REPLACEMENT" DRAWINGS FOR NEW WALL DETAILS AND WINDOW LOCATIONS.) △1

1/8" = 1'-0"

10 5 0 10 20

GRAPHIC SCALE

I. T. ALMY ASSOCIATES
958 REGAN ROAD
SOMERSET, MA 02726

SYMBOL	DESCRIPTION	DATE	APP'VD
△1	AS BUILT 1-12-98	5-28-98	MD

REVISIONS

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BR. HD. 7/15/93
DIV. HD.
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~~APPROVED~~ DATE 7/19/93

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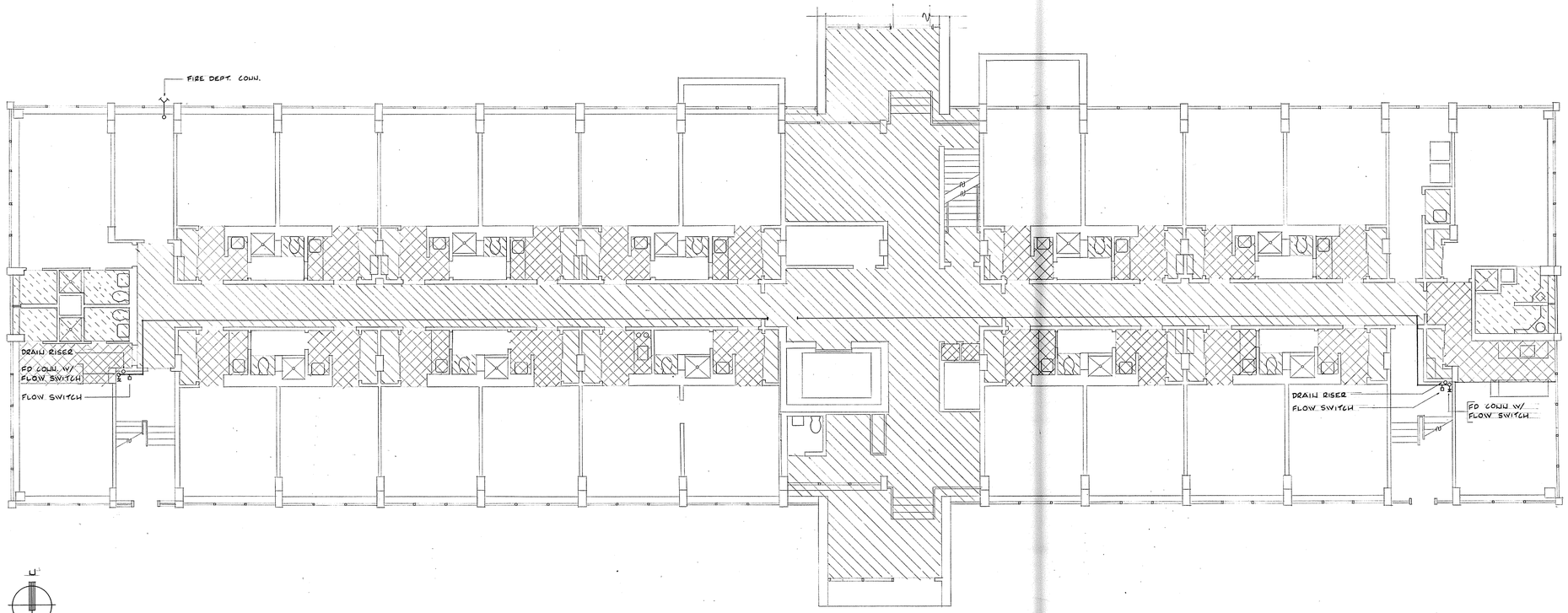
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

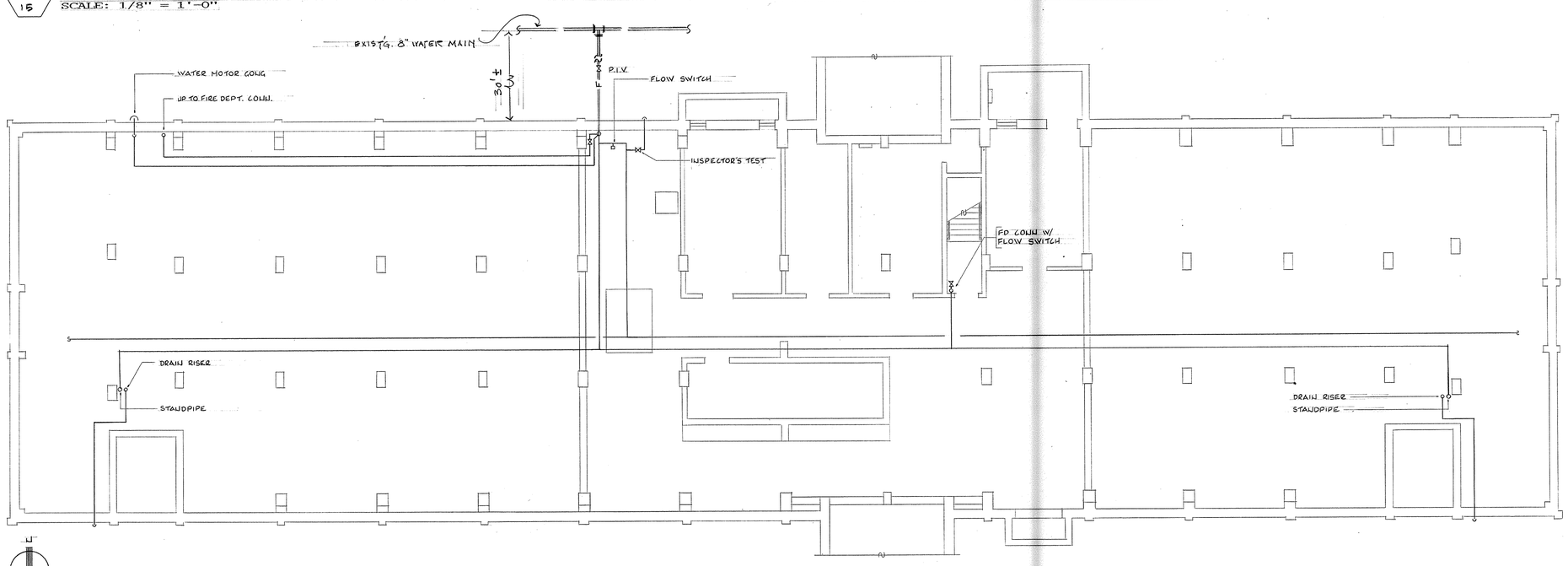
ALTERATIONS TO BUILDING #172, C.H.I.

BUILDING ELEVATIONS

CODE ID. NO. 80091
DRAWING SIZE D
SCALE: AS NOTED
CONST. CONTRACT NO. N62472-92-C-1671
SPEC. 04-92-1671
NAVFAC DRAWING NO. 2160335
N.E.T.C. DRAWING NO. 30070-297
SHEET 14 OF 28



1 / 15 FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



2 / 15 BASEMENT FLOOR PLAN
SCALE: 1/8" = 1'-0"

SYMBOLS

- EXISTING ASBESTOS PLASTER ON CONCRETE SLAB REMOVED
- EXISTING ASBESTOS PLASTER REMOVED NEW SUSPENDED ACOUSTICAL CEILING
- NEW SUSPENDED PLASTER CEILING
- EXISTING SUSPENDED PLASTER CEILING

SYMBOL	DESCRIPTION	DATE	APP'VD
	AS BUILT 1-12-98 NO CHANGE	5-28-98	WD

REVISIONS

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DR.
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DIV. HD.
APPROVED SAT TO
DATE 7-16-93

APPROVED
SATISFACTORY TO
DATE 7/19/93

THOMAS BOYD ALMY No. 452 REGISTERED ARCHITECT

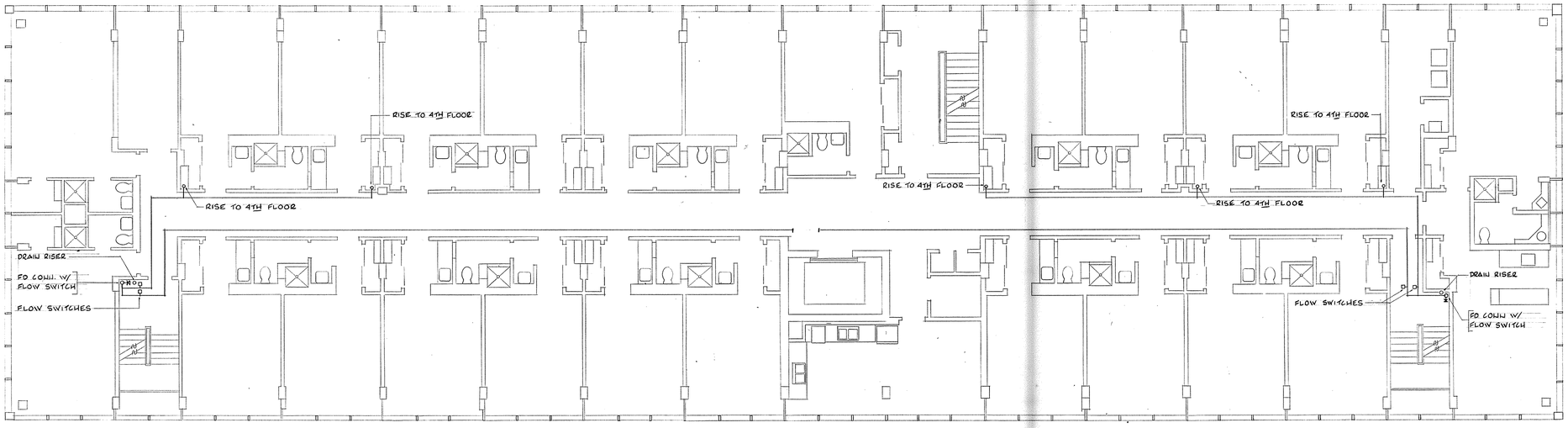
DEPARTMENT OF THE NAVY
NAVAL EDUCATION AND TRAINING CENTER
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

ALTERATIONS TO BUILDING #172, C.H.I.
FIRE PROTECTION
BASEMENT & 1ST. FLOOR PLANS

CODE ID. NO. 80091
DRAWING SIZE D
SCALE: AS NOTED
CONST. CONTRACT NO. N62472-92-C-1671
SPEC. 04-92-1671
NAVFAC DRAWING NO. 2160336
N.E.T.C. DRAWING NO. 30071-297
SHEET 15 OF 28

I. T. ALMY ASSOCIATES
958 REGAN ROAD
SOMERSET, MA 02726

170032

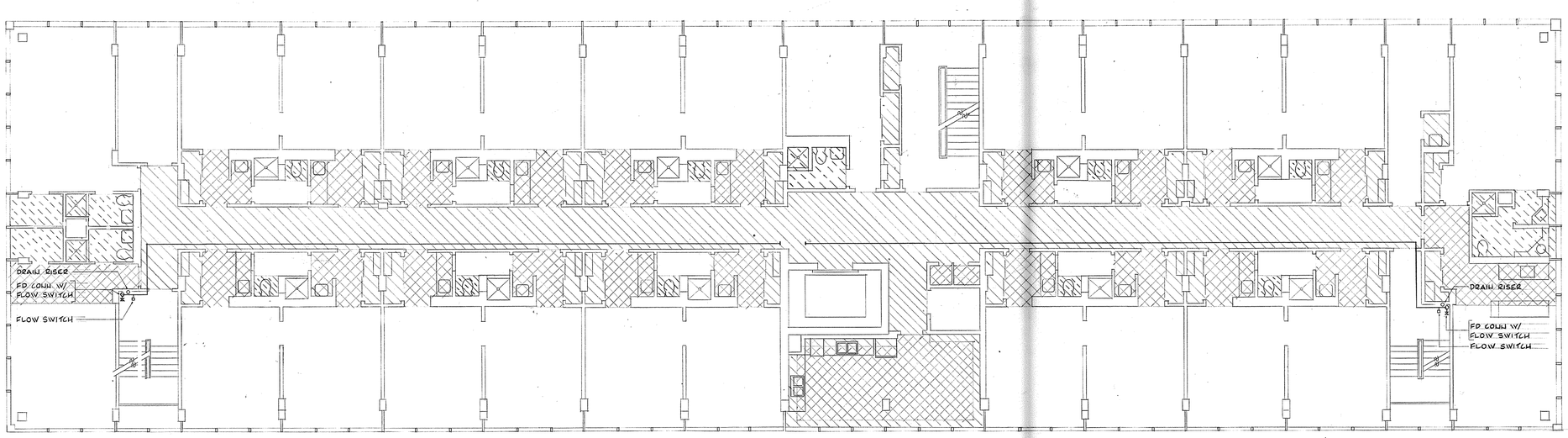


1/16 THIRD FLOOR PLAN — SEE 2ND FLOOR FIRE PROTECTION PLAN FOR CEILING INFO

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

NOTE:

LOCATION OF ASBESTOS PLASTER CEILING REMOVAL, NEW SUSPENDED CEILINGS, AND EXISTING SUSPENDED CEILINGS ARE THE SAME FOR 2ND, 3RD, AND 4TH. FLOORS



2/16 SECOND FLOOR PLAN — SEE 1ST. FLOOR FIRE PROTECTION PLAN FOR SYMBOLS

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

I. T. ALMY ASSOCIATES
958 REGAN ROAD
SOMERSET, MA 02726

SYMBOL	DESCRIPTION	DATE	APP'VD
	AS BUILT 1-12-98 NO CHANGE	5-26-98	MD

REVISIONS

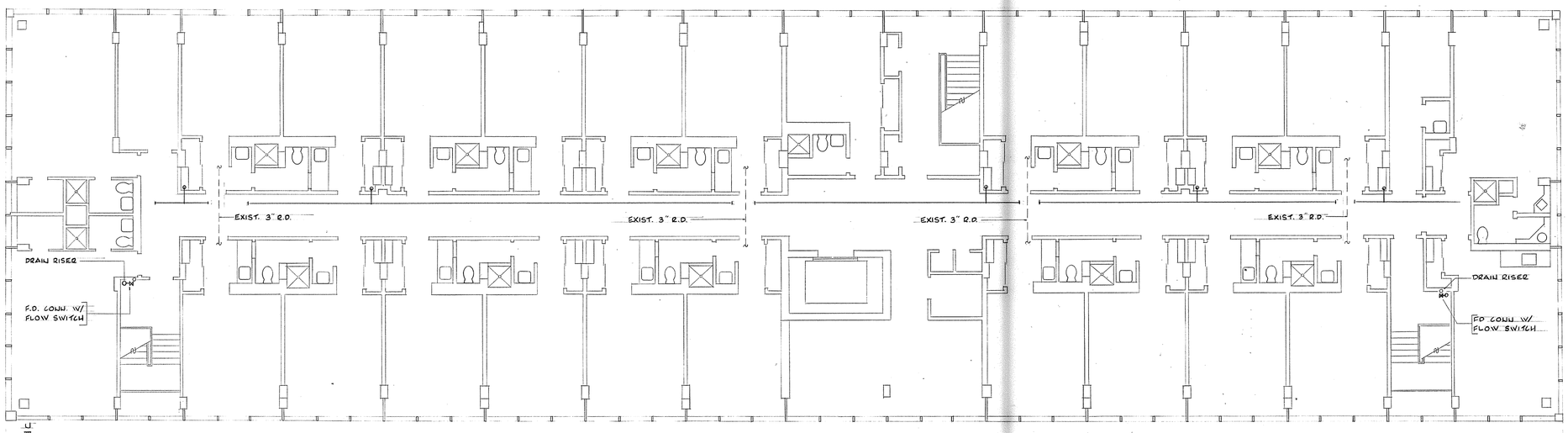
DSGN.
DR.
BR. HD. 7/15/93
DIV. HD.
~~APPROVED~~ SAT 70 DATE 7-16-93

APPROVED ~~SATISFACTORY TO~~ DATE 7/19/93

DEPARTMENT OF THE NAVY
NAVAL EDUCATION AND TRAINING CENTER
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

ALTERATIONS TO BUILDING #172, C.H.I.
FIRE PROTECTION
2ND. & 3RD. FLOOR PLANS

CODE ID. NO. 80091
DRAWING SIZE D
SCALE: AS NOTED
CONST. CONTRACT NO. N62472-92-C-1671
SPEC. 04-92-1671
NAVFAC DRAWING NO. 2160337
N.E.T.C. DRAWING NO. 30072-297
SHEET 16 OF 28



17 FOURTH FLOOR PLAN
SCALE: 1/8" = 1'-0"

SEE 2ND FLOOR FIRE PROTECTION PLAN FOR CEILING INFO

I. T. ALMY ASSOCIATES
958 REGAN ROAD
SOMERSET, MA 02726

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL EDUCATION AND TRAINING CENTER
NEWPORT, R.I.

ALTERATIONS TO BUILDING #172, C.H.I.
FIRE PROTECTION
4TH. FLOOR PLAN

CODE ID. NO. 80091
DRAWING SIZE D
SCALE: AS NOTED
CONST. CONTRACT NO. N62472-92-C-1671
SPEC. 04-92-1671
NAVFAC DRAWING NO. 2160338
N.E.T.C. DRAWING NO. 30073-297
SHEET 17 OF 28

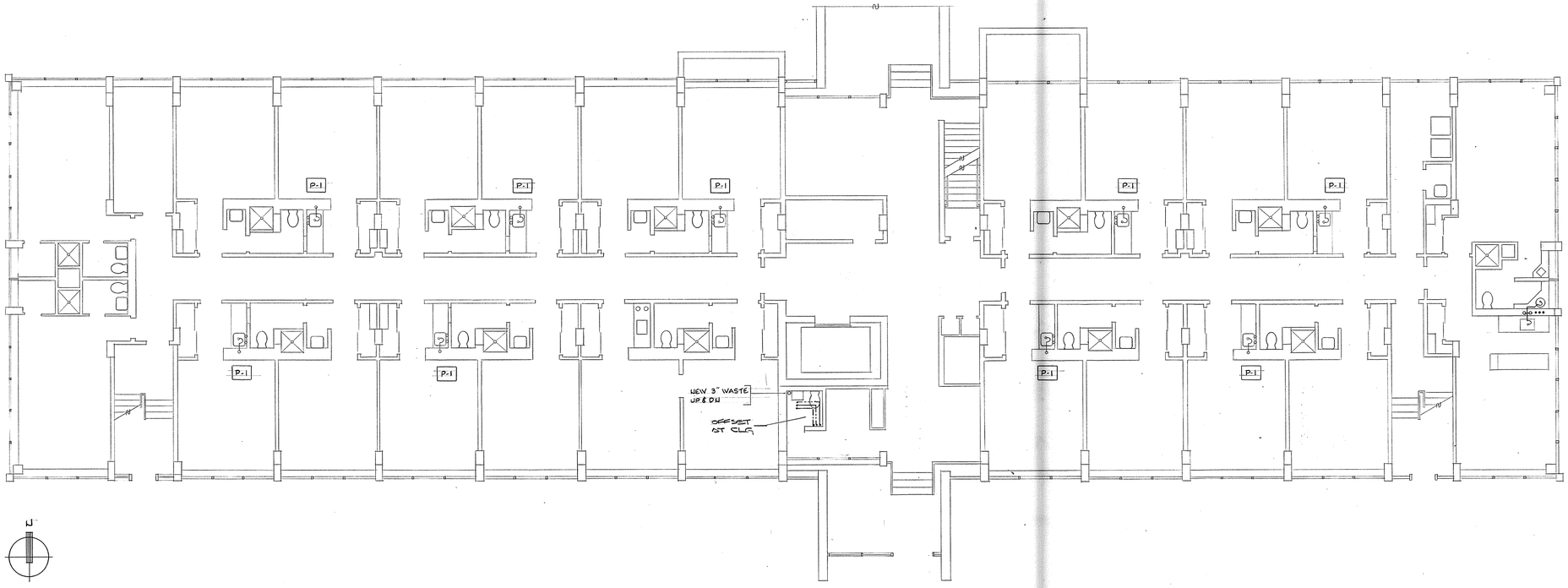
DSGN.
DR.
BR. HD. [signature] 7/15/93
DIV. HD. [signature]
~~APPROVED~~ SAT TO [signature] DATE 7-16-93

APPROVED ~~SATISFACTORY TO~~ [signature] DATE 7/19/93

AS BUILT 1-12-98 NO CHANGE 5-28-98 WD

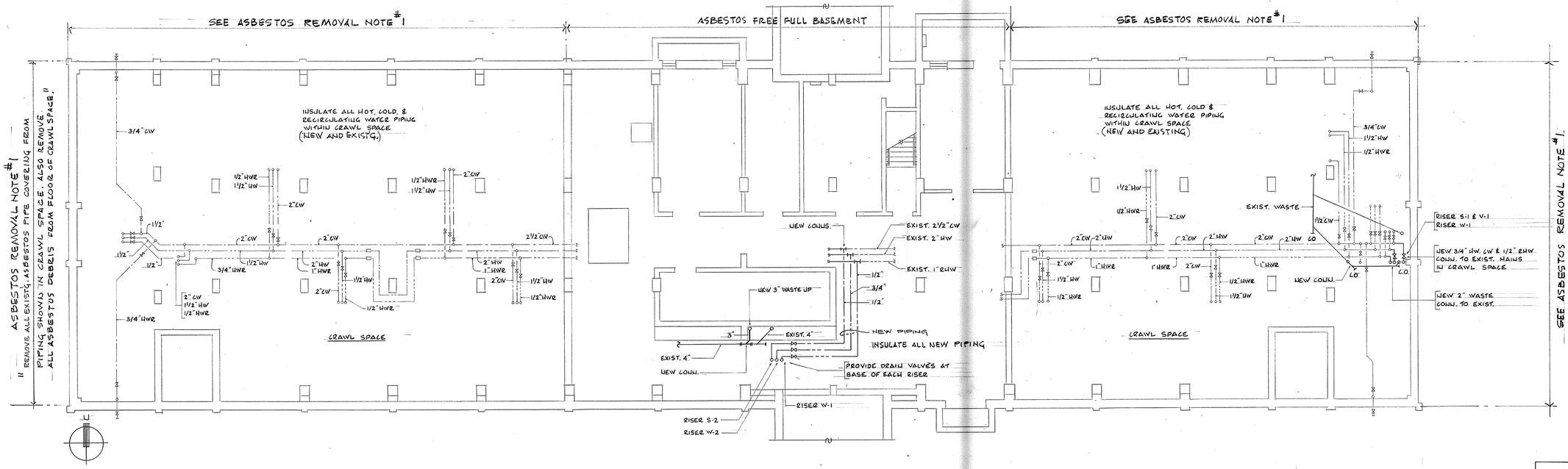
SYMBOL	DESCRIPTION	DATE	APP'VD

REVISIONS



1 / 18 FIRST FLOOR PLAN

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



2 / 18 BASEMENT FLOOR PLAN

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

I. T. ALMY ASSOCIATES
958 REGAN ROAD
SOMERSET, MA 02726

SYMBOL	DESCRIPTION	DATE	APP'VD
	AS BUILT 1-12-98 No CHANGE	5-28-98	WD

REVISIONS

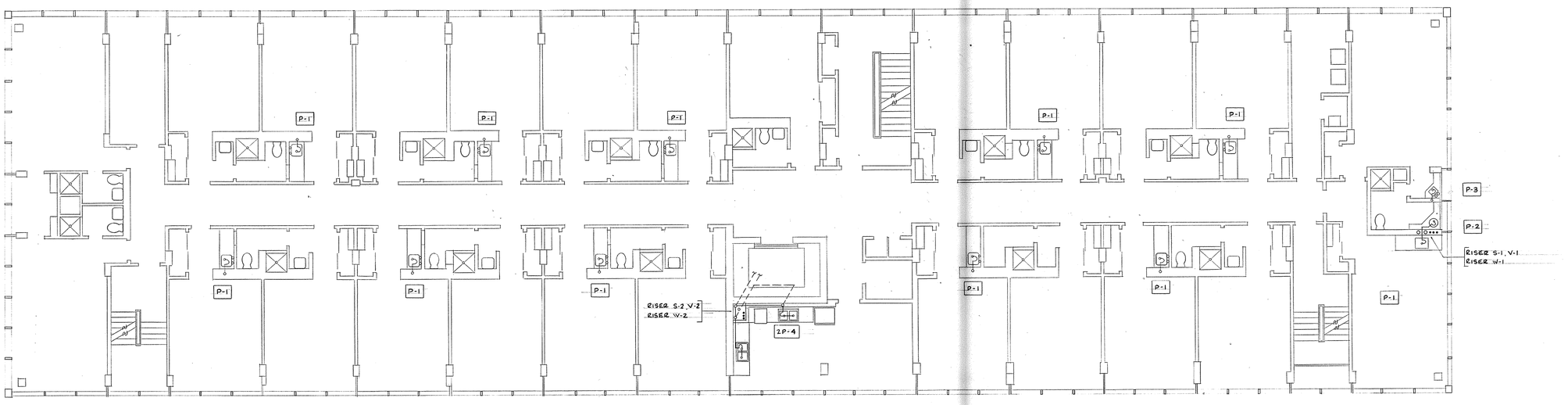
DSGN.
DR.
BR. HD. 7/15/93
DIV. HD.
~~APPROVED~~ SAT TO DATE 2-16-93

APPROVED ~~APPROVED~~ DATE 7/15/93

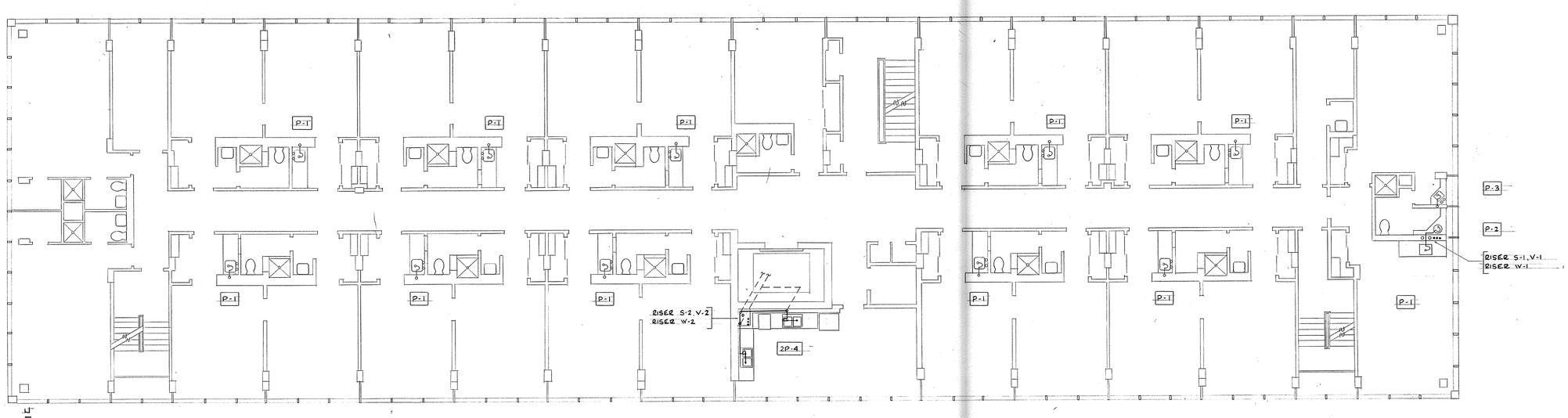
DEPARTMENT OF THE NAVY
NAVAL EDUCATION AND TRAINING CENTER
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

ALTERATIONS TO BUILDING #172, C.H.I.
PLUMBING
BASEMENT & 1ST. FLOOR PLANS

CODE ID. NO. 80091
DRAWING SIZE D
SCALE: AS NOTED
CONST. CONTRACT NO. N62472-92-C-1672
SPEC. 04-92-1672
NAVFAC DRAWING NO. 2160339
N.E.T.C. DRAWING NO. 30074-297
SHEET 18 OF 28



1 / 19 THIRD FLOOR PLAN
SCALE: 1/8" = 1'-0"



2 / 19 SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

I. T. ALMY ASSOCIATES
958 REGAN ROAD
SOMERSET, MA 02726

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL EDUCATION AND TRAINING CENTER
NEWPORT, R.I.

ALTERATIONS TO BUILDING #172, C.H.I.
PLUMBING
2ND. & 3RD. FLOOR PLANS

SYMBOL	DESCRIPTION	DATE	APP'VD
	AS BUILT 1-12-98 NO CHANGE	3-23-98	MD

REVISIONS

DSGN.
DR.
BR. HD. 7/15/93
DIV. HD.
~~APPROVED~~ SAT TO
DATE 7-16-93

APPROVED
~~SUBMITTED TO~~
DATE 7/19/93

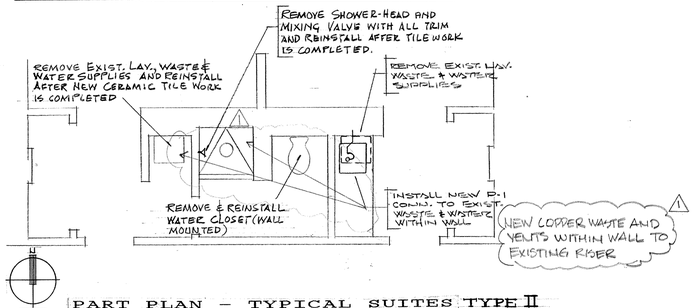
CODE ID. NO. 80091
DRAWING SIZE D
SCALE: AS NOTED
CONST. CONTRACT NO. N62472-92-C-1671
SPEC. 04-92-1671
NAVFAC DRAWING NO. 2160340
N.E.T.C. DRAWING NO. 30075-297
SHEET 19 OF 28

FIXTURE CONNECTION SCHEDULE

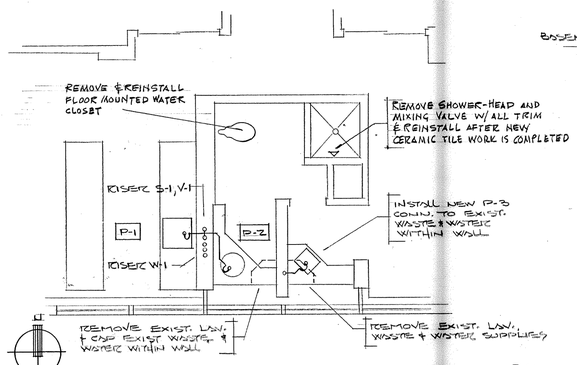
P-NO	FIXTURE	CONNECTION				MODEL	REMARKS
		WASTE	VENT	C.W.	H.W.		
P-1	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	25x22	20 GA. STAINLESS STEEL
P-2	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	19 1/8"	ROUND
P-3	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	15x15	20 GA. STAINLESS STEEL
P-4	KITCHEN SINK	1 1/2"	1 1/2"	1/2"	1/2"	33x22	20 GA. STAINLESS STEEL

LEGEND

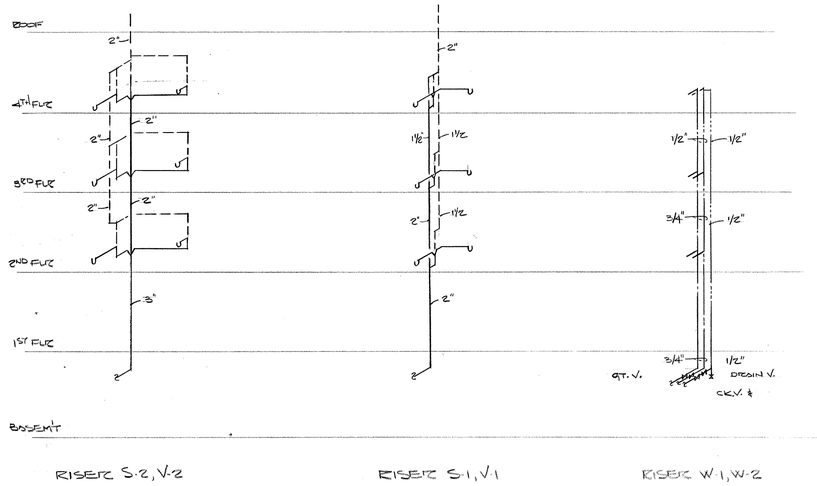
SAN	SANITARY WASTE UNDERGROUND
SAN	SANITARY WASTE ABOVE GROUND
	SANITARY VENT UNDERGROUND
	SANITARY VENT ABOVE GROUND
	COLD WATER
	HOT WATER
	HOT WATER RECIRCULATING

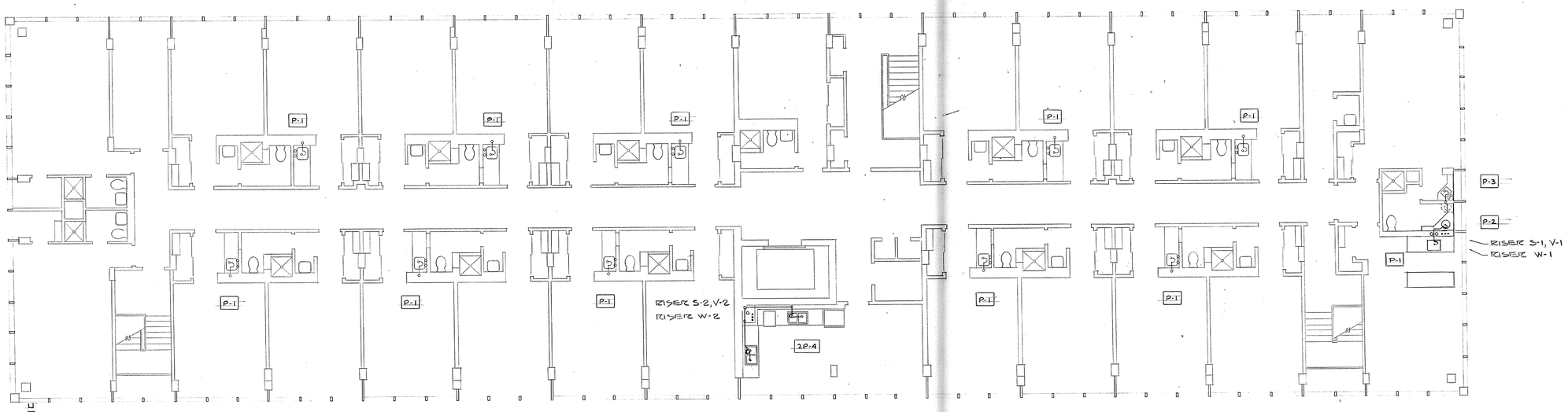


2 / 20 PART PLAN – TYPICAL SUITES TYPE II
1ST, 2ND, 3RD & 4TH FLOORS
SCALE: 1/4" = 1'-0"



3 / 20 PART PLAN – TYPICAL SUITE TYPE I
2ND, 3RD & 4TH FLOORS
SCALE: 1/4" = 1'-0"





1 / 20 FOURTH FLOOR PLAN
SCALE: 1/8" = 1'-0"

I. T. ALMY ASSOCIATES
958 REGAN ROAD
SOMERSET, MA 02726

SYMBOL	DESCRIPTION	DATE	APP'VD
1	AS BUILTS 1-12-98	5-28-98	MD

REVISIONS

DSGN.
DR.
BR. HD.
DIV. HD.
APPROVED SAT TO
DATE 7-16-93

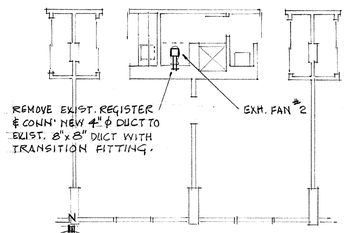
APPROVED
DATE 7/19/93

THOMAS BOYD ALMY No. 452 REGISTERED

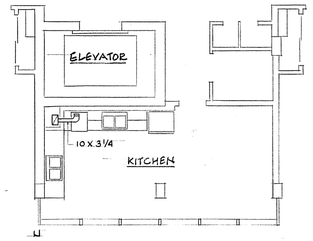
DEPARTMENT OF THE NAVY
NAVAL EDUCATION AND TRAINING CENTER
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

ALTERATIONS TO BUILDING #172, C.H.I.
PLUMBING
4TH. FLOOR PLAN

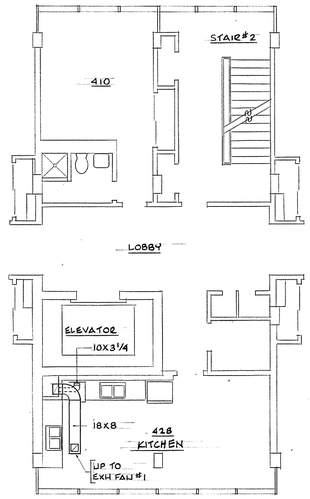
CODE ID. NO. 80091
DRAWING SIZE D
SCALE: AS NOTED
CONST. CONTRACT NO. N62472-92-C-1671
SPEC. 04-92-1671
NAVFAC DRAWING NO. 2160341
N.E.T.C. DRAWING NO. 30076297
SHEET 20 OF 28



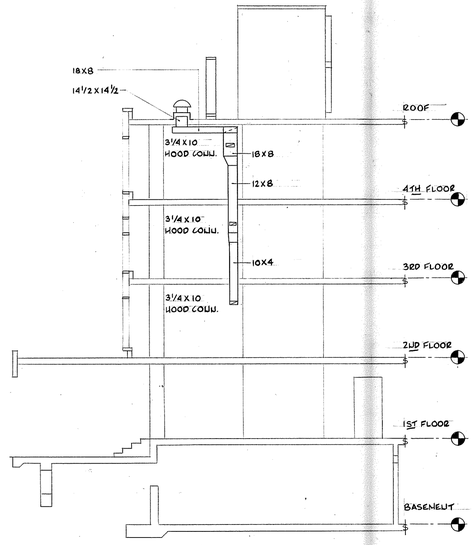
6 / 21 PART PLAN
SCALE: 1/8" = 1'-0"
TYPICAL AT ALL SUITES TYPE II



2 / 21 PART PLAN
SCALE: 1/8" = 1'-0"
TYPICAL AT ROOMS #228 & #328



3 / 21 PART PLAN
SCALE: 1/8" = 1'-0"

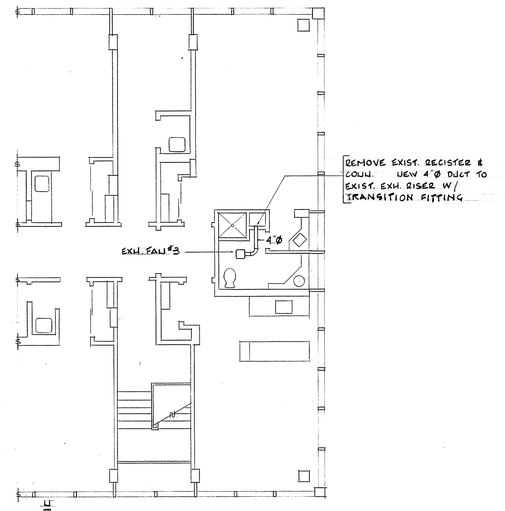


4 / 21 EXHAUST DUCT RISER @ KITCHEN
SCALE: 1/8" = 1'-0"

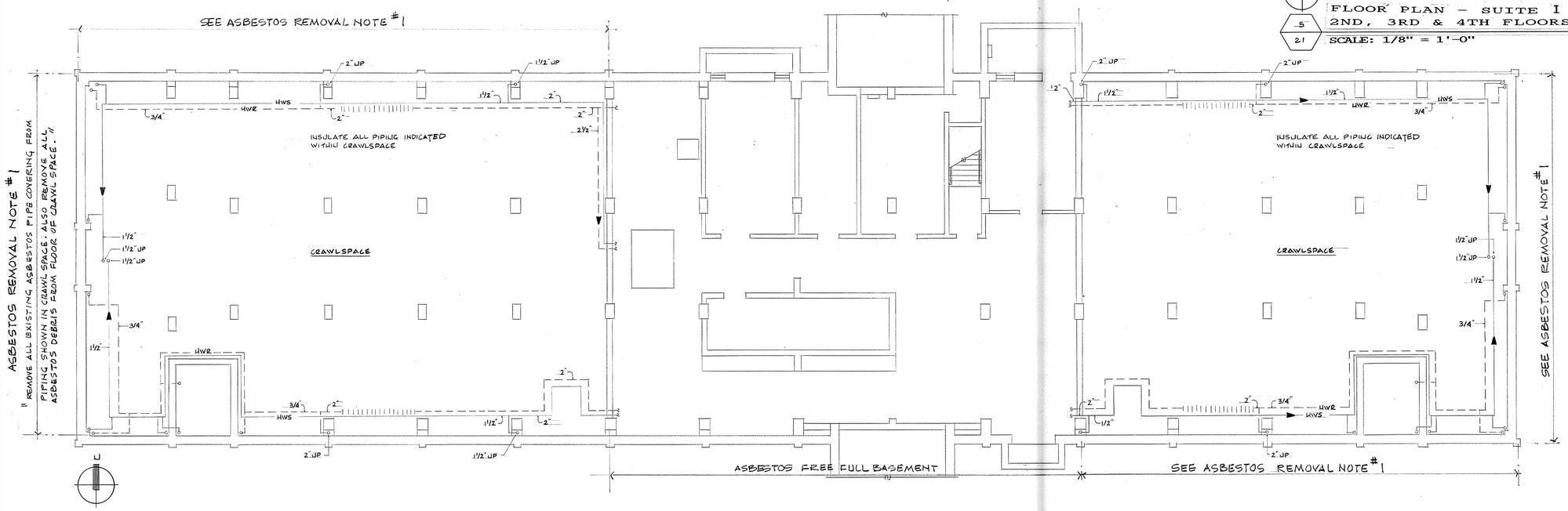
EXHAUST FAN SCHEDULE

UNIT NO.	LOCATION	TYPE	CFM	SP	HP	RPM	DRIVE	VOLTAGE	REMARKS
EF-1	ROOF	CENTRIF.	850	5/8"	1/4	1180	BELT	120V, 1ϕ	UPBLAST *
EF-2	CLG.	CLG.	81	1/8	3.5 W	1500	DIRECT	120V, 1ϕ	PROVIDE SPEED SWITCH
EF-3	CLG.	"						1 "	SEE ELEC. DRAWINGS

* PROVIDE PRE-FABRICATED CURB & BACK DRAFT DAMPERS



5 / 21 FLOOR PLAN - SUITE I
2ND, 3RD & 4TH FLOORS
SCALE: 1/8" = 1'-0"



1 / 21 BASEMENT FLOOR PLAN
SCALE: 1/8" = 1'-0"

I. T. ALMY ASSOCIATES
958 REGAN ROAD
SOMERSET, MA 02726

SYMBOL	DESCRIPTION	DATE	APP'VD
	AS BUILT 1-12-98 NO CHANGE	5-26-98	MD

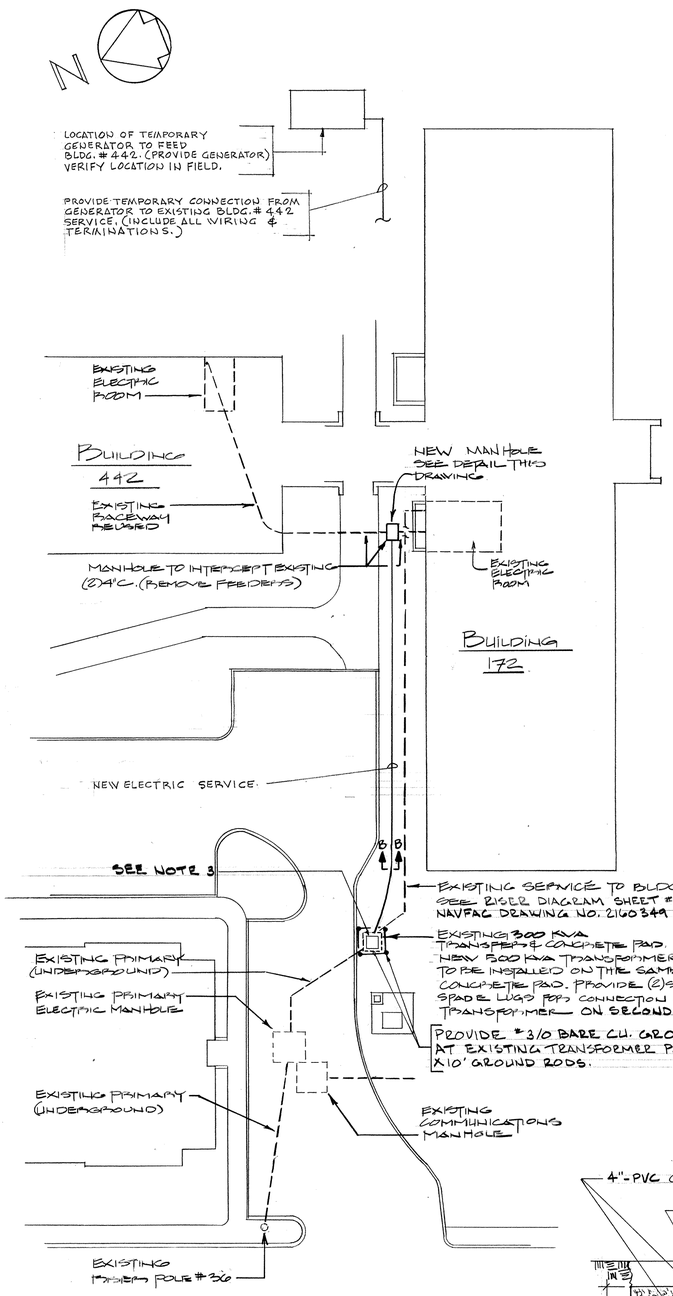
REVISIONS

DSGN.
DR.
BR. HD.
DIV. HD. 7/15/93
~~APPROVED~~
~~SAT TO~~ DATE
APPROVED 7/19/93

DEPARTMENT OF THE NAVY
NAVAL EDUCATION AND TRAINING CENTER
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

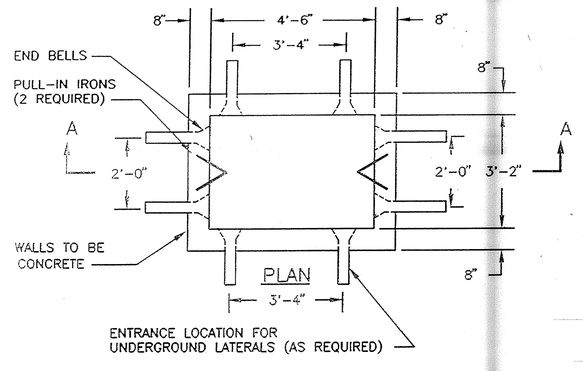
ALTERATIONS TO BUILDING #172, C.H.I.
MECHANICAL
BASEMENT & PART. 2ND, 3RD & 4TH. FLOOR PLANS

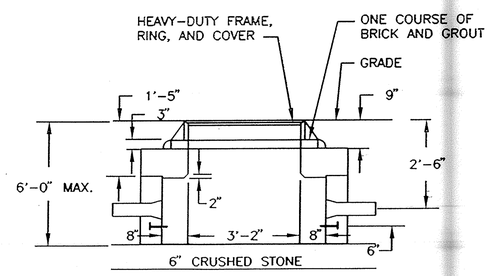
CODE ID. NO. 80091
DRAWING SIZE D
SCALE: AS NOTED
CONST. CONTRACT NO. N62472-92-C-1671
SPEC. 04-92-1671
NAVFAC DRAWING NO. 2160342
N.E.T.C. DRAWING NO. 30077-297
SHEET 21 OF 28



ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"

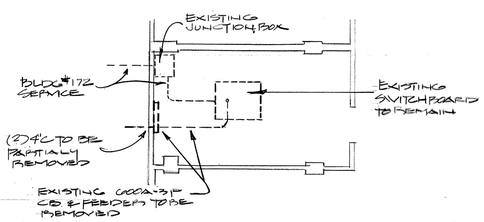




SECTION AA

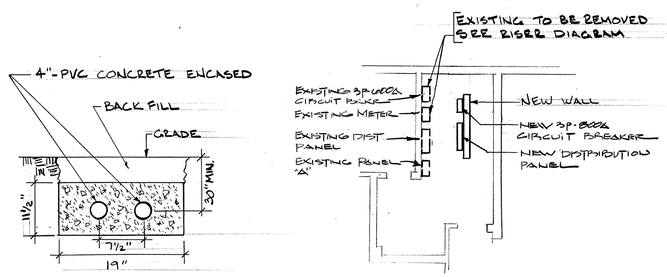
HEAVY DUTY MAN HOLE DETAIL

NO SCALE



TRANSFORMER ROOM BLDG #172

SCALE 1/8" = 1'-0"



SECTION "BB"

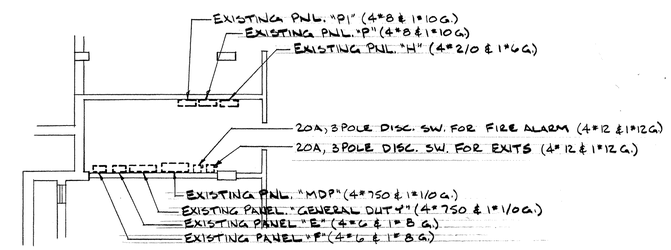
NO SCALE

ELECTRIC ROOM BLDG # 442

SCALE 1/8" = 1'-0"

SITE NOTES:

1. PROVIDE CUTTING OF EXISTING TRANSFORMER PAD AT SECONDARY TO ACCOMMODATE (2) NEW 4" CONDUITS TO FEED EXISTING BUILDING # 442 AFTER REMOVAL OF EXISTING 300 KVA TRANFORMER IS COMPLETE.
2. PROVIDE NEW MANHOLE FOR INTERCEPTION OF EXISTING FEEDERS AND CONDUITS FROM EXISTING 600A, 3POLE CIRCUIT BREAKER IN BLDG. # 172 TRANSFORMER ROOM.
3. EXISTING PAD IS 5'-10" X 4'-10".



EXISTING ELECTRIC RM BLDG. # 172

SCALE 1/8" = 1'-0"

GRAPHIC SCALES

1" = 20' 0 5' 10' 20' 30' 40' 60' 80' 100' 120'

1/8" = 1'-0" 0 5' 10' 15' 20' 25' 30' 35' 40' 45'

I. T. ALMY ASSOCIATES
958 REGAN ROAD
SOMERSET, MA 02726

SYMBOL	DESCRIPTION	DATE	APP'VD
	2ND CHANGE	6-28-96	MD
	AS BUILT	1-12-98	

REVISIONS

DSGN.
DR.
BR. HD. 7/15/93
DIV. HD.
~~APPROVED~~ SAT 78 DATE 7-16-93

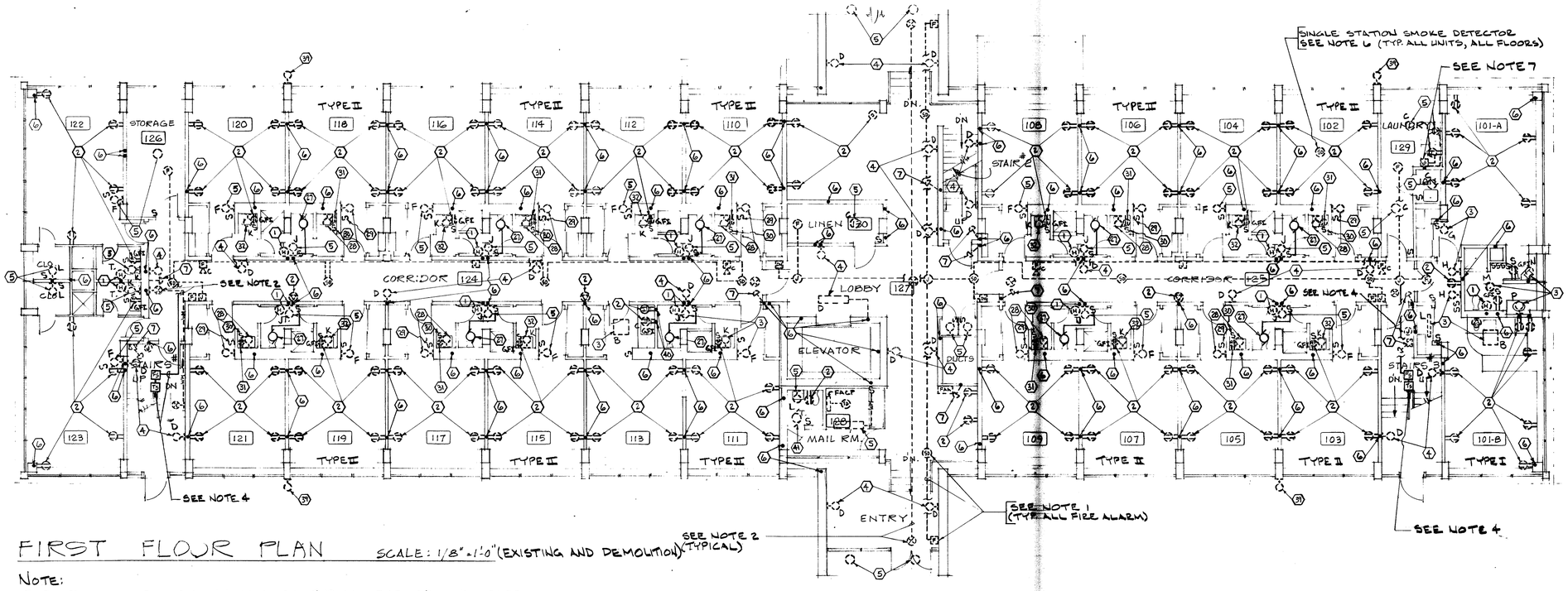
APPROVED DATE 7/19/93

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL EDUCATION AND TRAINING CENTER
NEWPORT, R.I.

ALTERATIONS TO BUILDING # 172 C.H.I.
ELECTRICAL
SITE PLAN, DETAILS AND NOTES

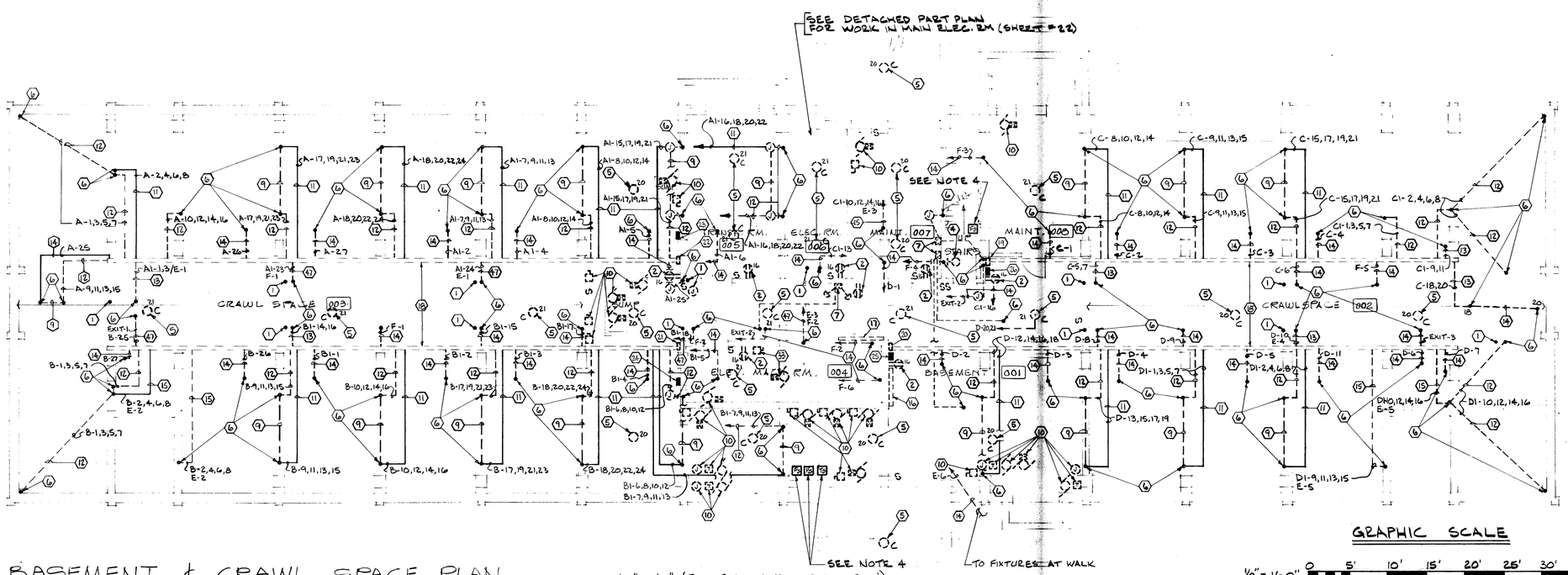
CODE ID. NO. 80091
DRAWING SIZE D
SCALE: AS NOTED
CONST. CONTRACT NO. N62472-92-C-1671
SPEC. 04-92-1671
NAVFAC DRAWING NO. 2160343
N.E.T.C. DRAWING NO. 30078-297
SHEET 22 OF 28

170032



FIRST FLOOR PLAN SCALE: 1/8" = 1'-0" (EXISTING AND DEMOLITION)

NOTE:
ELECTRICAL WORK SHOWN IS ALSO TYPICAL FOR SECOND, THIRD AND FOURTH FLOORS (EXECPT AS NOTED)



BASEMENT & CRAWL SPACE PLAN SCALE: 1/8" = 1'-0" (EXISTING AND DEMOLITION)

GRAPHIC SCALE

1/8" = 1'-0" 0 5' 10' 15' 20' 25' 30' 35' 40' 45'

NOTES:

1. REMOVE & STORE IN SAFE PLACE, ALL FIRE ALARM DEVICES & JUNCTION BOXES. CONTRACTOR SHALL REMOVE ALL CONDUIT & WIRING FROM AREAS AFFECTED BY ASBESTOS REMOVAL. CONTRACTOR SHALL INSTALL NEW CONDUIT & WIRE & RECONNECT EXISTING FIRE ALARM DEVICES & BACKBOXES.
2. REMOVE & STORE IN SAFE PLACE, CEILING MOUNTED EXIT LIGHTS. CONTRACTOR TO REMOVE ALL CONDUIT & WIRE FROM AREAS AFFECTED BY ASBESTOS REMOVAL. CONTRACTOR SHALL INSTALL NEW CONDUIT & WIRE & RECONNECT EXISTING EXIT LIGHTS. (TYPICAL FOR ALL FLOORS.)
3. FOR KEY NOTES SEE DWG NO. 27, NAVFAC DWG. #2160348
4. CONNECT NEW FLOW AND TAMPER SWITCHES TO EXISTING FIRE ALARM SYSTEM LOOP. PROVIDE 4#14 IN 3/4" CONDUIT. VERIFY LOCATIONS IN FIELD. (TYPICAL ALL FLOORS.)
5. SEE NAVFAC DWG'S #2160336 AND #2160337 FOR ASBESTOS REMOVAL LOCATIONS.
6. EXISTING SINGLE STATION SMOKE DETECTOR WITH RELATED WIRING TO REMAIN. RECONNECT TO EXISTING CIRCUIT AFTER REWIRING.
7. EXISTING WASHER AND DRYER OUTLETS AND RELATED WIRING TO REMAIN. (TYPICAL 1ST AND 3RD FLOORS ONLY.)

I. T. ALMY ASSOCIATES
958 REGAN ROAD
SOMERSET, MA 02726

SYMBOL	DESCRIPTION	DATE	APP'VD
	AS BUILT 1-12-98 NO CHANGE	5-28-98	MD

REVISIONS

DSGN.
DR.
BR. HD.
DIV. HD.
APPROVED SAT TO
DATE 7-16-93

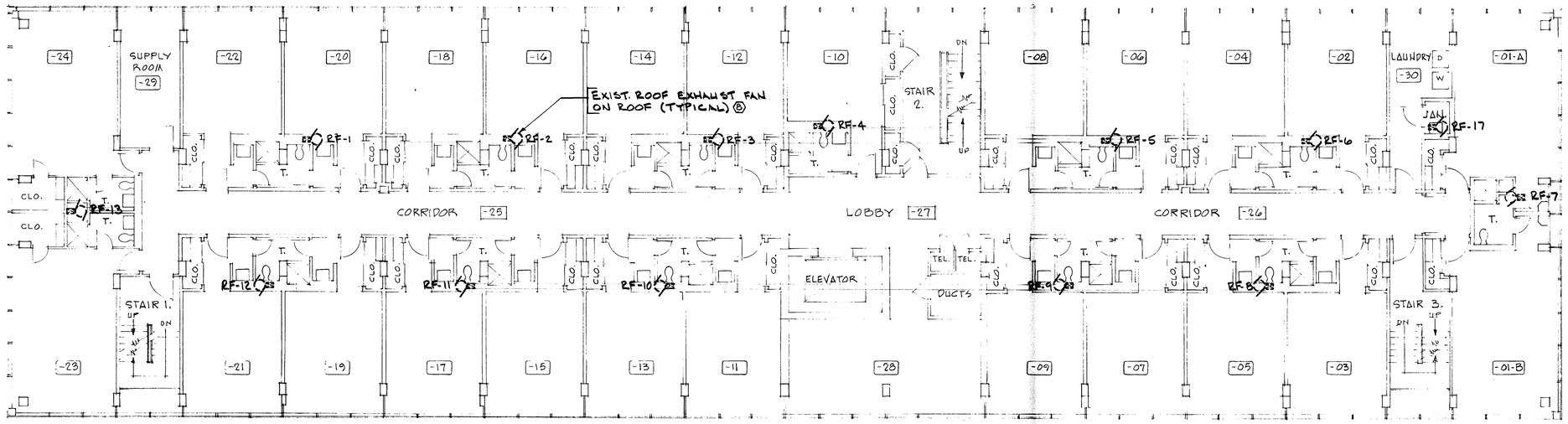
APPROVED
SATISFACTORY TO
DATE 7/19/93

THOMAS BOYD ALMY No. 452 REGISTERED PROFESSIONAL ENGINEER

DEPARTMENT OF THE NAVY
NAVAL EDUCATION AND TRAINING CENTER
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

ALTERATIONS TO BUILDING #172 C.H.I.
ELECTRICAL
BASEMENT & 1ST FLOOR - EXISTING CONDITIONS

CODE ID. NO. 80091
DRAWING SIZE D
SCALE: AS NOTED
CONST. CONTRACT NO. N62472-92-C-1671
SPEC. 04-92-1671
NAVFAC DRAWING NO. 2160344
N.E.T.C. DRAWING NO. 30079-297
SHEET 23 OF 28

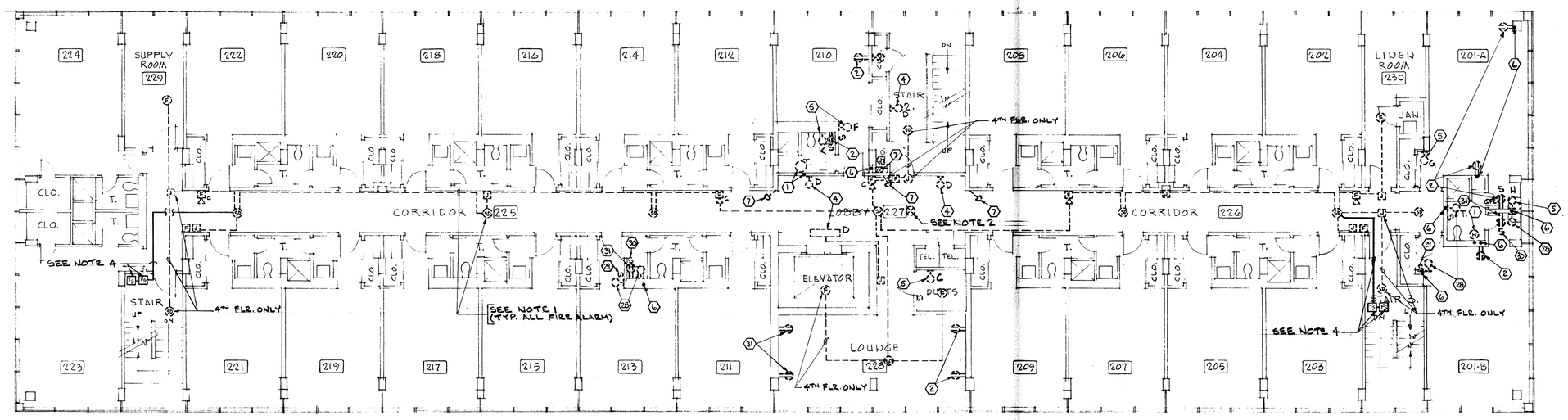


NOTE:
SEE FIRST FLOOR PLAN FOR TYPICAL FLOOR LAYOUT

THIRD AND FOURTH FLOOR PLAN

SCALE 1/8" = 1'-0" (EXISTING AND DEMOLITION)

-23 THIS SYMBOL INDICATES ROOM NUMBERS FOR THIRD FLOOR - FROM 301 TO 330 FOR FOURTH FLOOR - FROM 401 TO 430



NOTE:
SEE FIRST FLOOR PLAN FOR TYPICAL FLOOR LAYOUT

SECOND FLOOR PLAN

SCALE 1/8" = 1'-0" (EXISTING AND DEMOLITION)

ELECTRICAL WORK SHOWN IS ALSO TYPICAL FOR THIRD AND FOURTH FLOORS (EXECPT AS NOTED)

GRAPHIC SCALE

1/8" = 1'-0" 0 5' 10' 15' 20' 25' 30' 35' 40' 45'

NOTES:

1. REMOVE & STORE IN A SAFE PLACE, ALL FIRE ALARM DEVICES & BACK BOXES. CONTRACTOR SHALL REMOVE ALL CONDUIT & WIRING FROM AREAS AFFECTED BY ASBESTOS REMOVAL. CONTRACTOR SHALL INSTALL NEW CONDUIT & WIRE & RECONNECT EXISTING FIRE ALARM DEVICES & BACK BOXES.
2. REMOVE & STORE IN SAFE PLACE, CEILING MOUNTED EXIT LIGHTS. CONTRACTOR TO REMOVE ALL CONDUIT & WIRE FROM AREAS AFFECTED BY ASBESTOS REMOVAL. CONTRACTOR SHALL INSTALL NEW CONDUIT & WIRE & RECONNECT EXISTING EXIT LIGHTS. (TYPICAL FOR ALL FLOORS.)
3. FOR KEY NOTES SEE DWG. NO. 27, NAVFAC DWG. # 2160348
4. SEE NOTE 4, DWG. NO. 23, NAVFAC DWG. # 2160344
5. SEE NOTE 5, DWG. NO 23. NAVFAC DWG. # 2160344

REVISIONS

SYMBOL	DESCRIPTION	DATE	APP'VD
	AS BUILT 1-12-98 NO CHANGE	5-28-98	MD

DSGN.
DR.
BR. HD.
DIV. HD.
APPROVED SAT 770
DATE 7-16-93

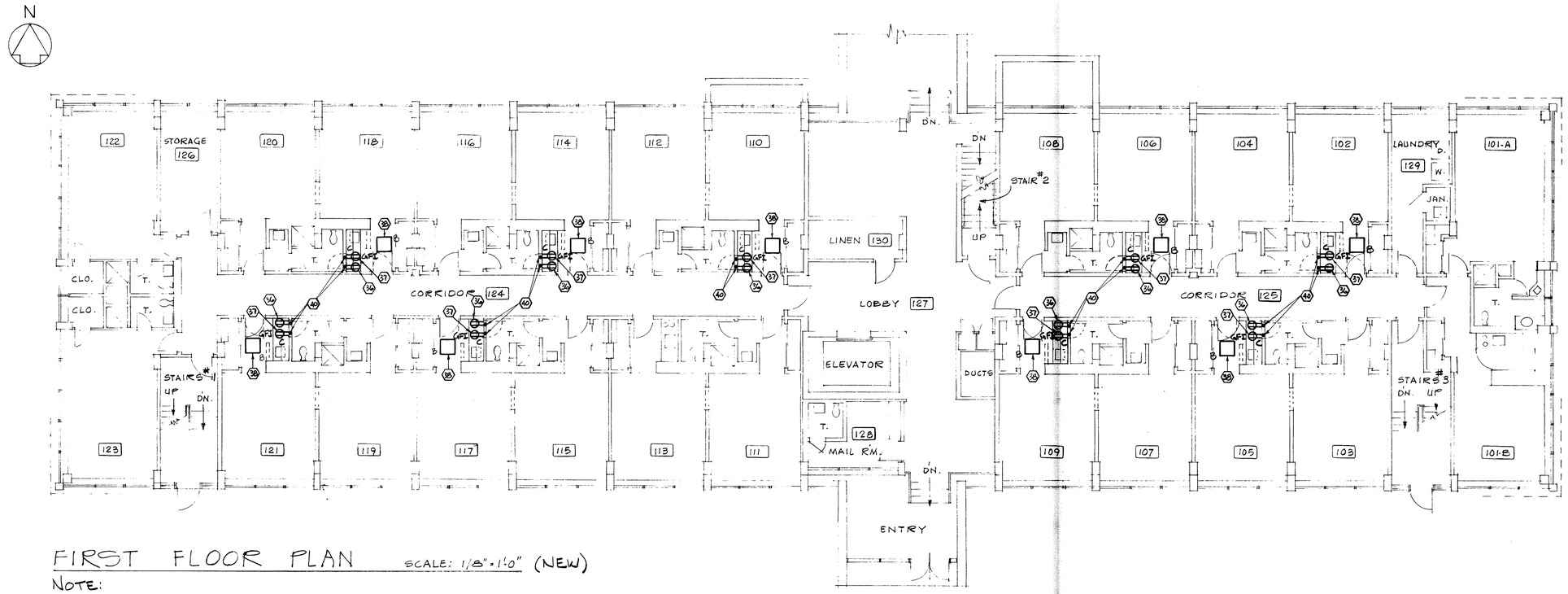
APPROVED SATISFACTORY TO
DATE 7/19/93

DEPARTMENT OF THE NAVY
NAVAL EDUCATION AND TRAINING CENTER
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

ALTERATIONS TO BUILDING #172 C.H.I.
ELECTRICAL
2ND THRU 4TH FLOORS - EXISTING CONDITIONS

CODE ID. NO. 80091
DRAWING SIZE D
SCALE: AS NOTED
CONST. CONTRACT NO. N62472-92-C-1671
SPEC. 04-92-1671
NAVFAC DRAWING NO. 2160345
N.E.T.C. DRAWING NO. 30080-297
SHEET 24 OF 28

I. T. ALMY ASSOCIATES
958 REGAN ROAD
SOMERSET, MA 02726



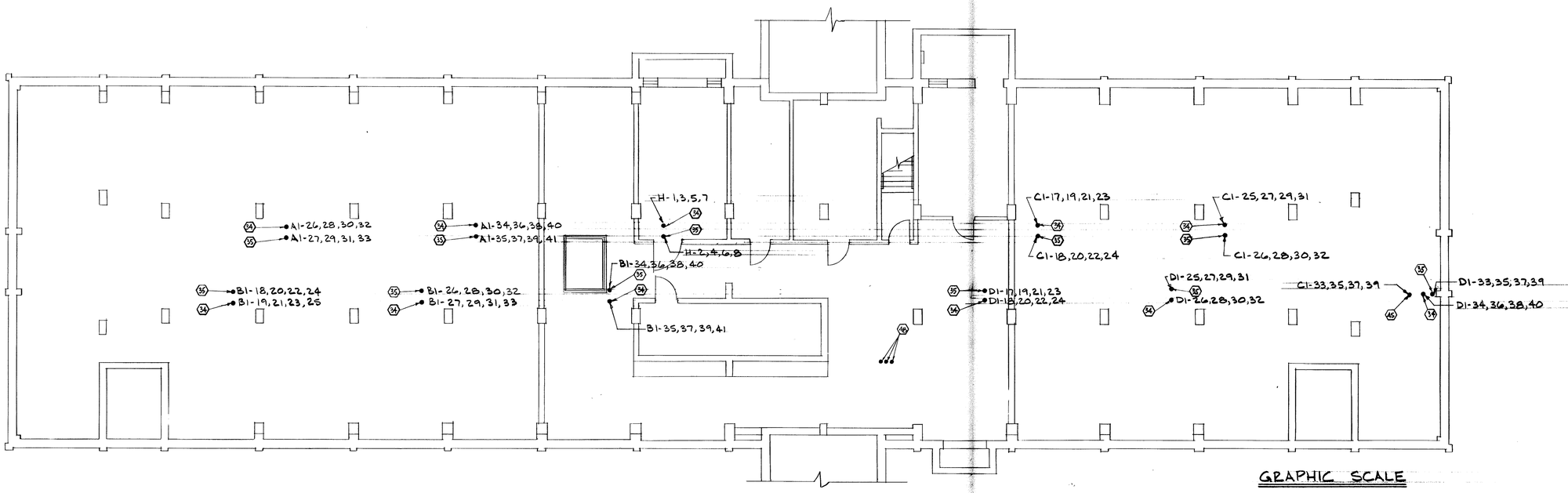
FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0" (NEW)

NOTE:
ELECTRICAL WORK SHOWN IS ALSO TYPICAL FOR SECOND, THIRD AND FOURTH FLOORS (EXCEPT AS NOTED.)

NOTES:

1. SEE SHEET No. 23 FOR EXISTING CONDITIONS AND TYPICAL LIGHTING AND RECEPTACLE LAYOUTS FOR EACH UNIT. NAVFAC DWG. # 2160344
2. SEE SHEET No. 27 FOR KEY NOTES. NAVFAC DWG. #2160348



BASEMENT & CRAWL SPACE PLAN

SCALE: 1/8" = 1'-0" (NEW)

GRAPHIC SCALE

1/8" = 1'-0" 0 5' 10' 15' 20' 25' 30' 35' 40' 45'

I. T. ALMY ASSOCIATES
958 REGAN ROAD
SOMERSET, MA 02726

SYMBOL	DESCRIPTION	DATE	APP'VD
	AS BUILT 1-12-98 NO CHANGE	5-28-98	MD

REVISIONS

DSGN.
DR.
BR. HD. 1/15/93
DIV. HD.
~~APPROVED~~ SAT TO
DATE 1-11-93

APPROVE
~~SHIPYARD CO~~
DATE 7/19/93

DEPARTMENT OF THE NAVY
NAVAL EDUCATION AND TRAINING CENTER
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

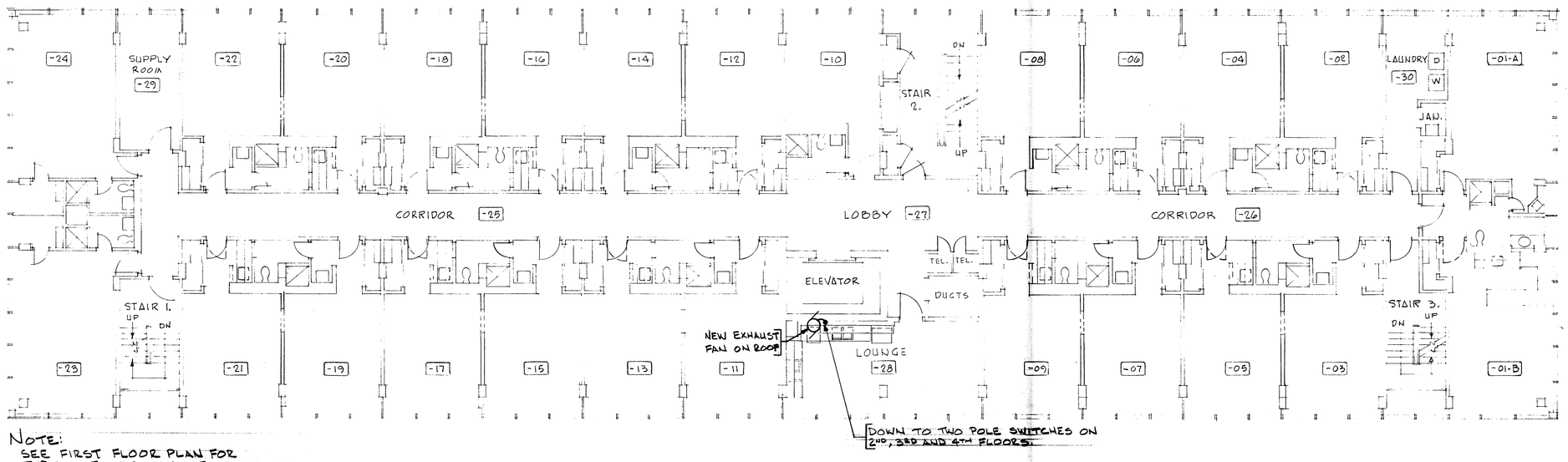
ALTERATIONS TO BUILDING #172 C.H.I.
ELECTRICAL
BASEMENT & 1ST FLOOR - NEW CONDITIONS

CODE ID. NO. 80091
DRAWING SIZE D
SCALE: AS NOTED
CONST. CONTRACT NO. N62472-92-C-1671
SPEC. 04-92-1671
NAVFAC DRAWING NO. 2160346
N.E.T.C. DRAWING NO. 30081-297
SHEET 25 OF 28

170032

NOTES:

1. SEE SHEET No. 24 FOR EXISTING CONDITIONS AND TYPICAL LIGHTING AND RECEPTACLE LAYOUTS FOR EACH UNIT. NAVFAC DWG. #2160345
2. SEE SHEET No. 28 FOR POWER RISER DIAGRAM. NAVFAC DWG. #2160349
3. SEE SHEET No. 27 FOR KEY NOTES. NAVFAC DWG. #2160348

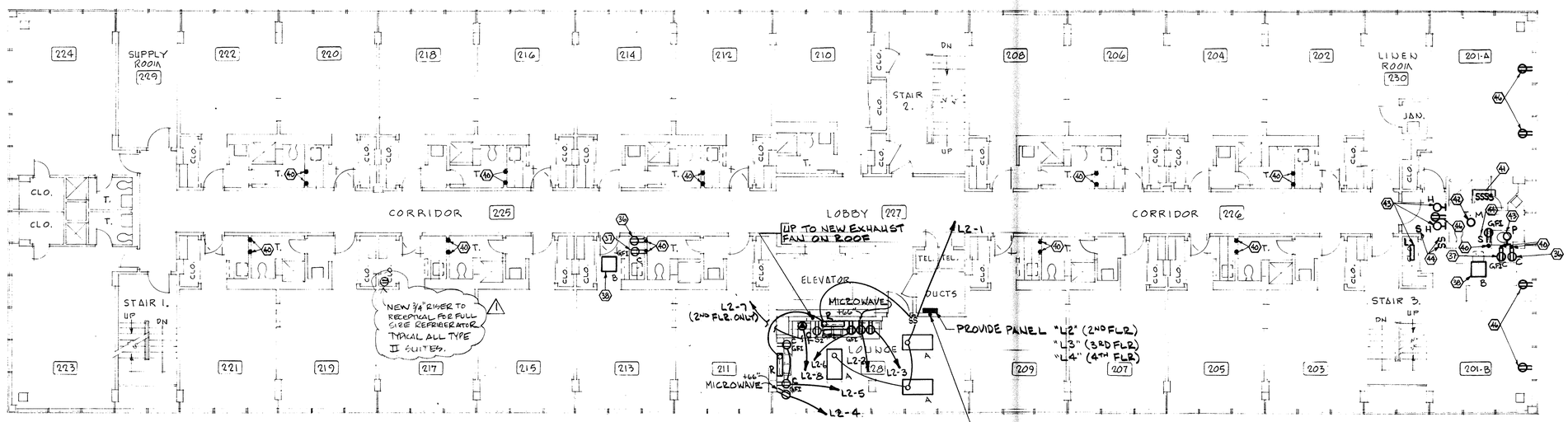


NOTE:
SEE FIRST FLOOR PLAN FOR TYPICAL FLOOR LAYOUT

THIRD AND FOURTH FLOOR PLANS

SCALE 1/8" = 1'-0" (NEW)

-23 THIS SYMBOLS INDICATES ROOM NUMBERS
FOR THIRD FLOOR - FROM 301 TO 330
FOR FOURTH FLOOR - FROM 401 TO 430



NOTE:
SEE FIRST FLOOR PLAN FOR TYPICAL FLOOR LAYOUT

SECOND FLOOR PLAN

SCALE 1/8" = 1'-0" (NEW)

ELECTRICAL WORK SHOWN IS ALSO TYPICAL FOR THIRD AND FOURTH FLOORS (EXCEPT AS NOTED.)

GRAPHIC SCALE

1/8" = 1'-0" 0 5' 10' 15' 20' 25' 30' 35' 40' 45'

I. T. ALMY ASSOCIATES
958 REGAN ROAD
SOMERSET, MA 02726

SYMBOL	DESCRIPTION	DATE	APP'VD
1	AS BUILT 1-12-98	5-28-98	MD

REVISIONS

DSGN.
DR.
BR. HD. 7/15/93
DIV. HD.
SUBMITTED SAT TO DATE 7-16-93

APPROVED SUPERVISOR TE DATE 11/4/93

DEPARTMENT OF THE NAVY
NAVAL EDUCATION AND TRAINING CENTER
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

ALTERATIONS TO BUILDING #172 C.H.I.
ELECTRICAL
2ND THRU 4TH FLOORS - NEW CONDITIONS

CODE ID. NO. 80091
DRAWING SIZE D
SCALE: AS NOTED
CONST. CONTRACT NO. N62472-92-C-1671
SPEC. 04-92-1671
NAVFAC DRAWING NO. 2160347
N.E.T.C. DRAWING NO. 30082-297
SHEET 26 OF 28

KEY NOTES:

1. REMOVE EXISTING WALL HEATER AND RELATED WIRING. (TYPICAL ALL FLOORS)

2. REMOVE EXISTING RECEPTACLE AND RELATED WIRING. REPLACE WITH NEW RECEPTACLE AND BRANCH CIRCUIT WIRING. (TYPICAL ALL FLOORS)

3. REMOVE EXISTING LIGHT FIXTURE WITH RELATED SWITCHING AND STORE IN SAFE PLACE TO AVOID DAMAGE. REMOVE EXISTING WIRING AND REPLACE WITH NEW. REINSTALL EXISTING LIGHT FIXTURE AND RELATED SWITCHING. (TYPICAL ROOMS 101-A&B, 111, 113)

4. REMOVE EXISTING CORRIDOR LIGHT FIXTURE AND STORE IN SAFE PLACE TO AVOID DAMAGE. REMOVE EXISTING WIRING AND REPLACE WITH NEW. INSTALL NEW CORRIDOR LIGHT FIXTURE. RETURN ALL EXISTING CORRIDOR FIXTURES, IN GOOD CONDITION, TO N.E.T.C. MAINTENANCE DEPARTMENT. (TYPICAL ALL FLOORS. PROVIDE NEW FIXTURES)

5. REMOVE EXISTING LIGHTING FIXTURE, RELATED SWITCHING AND WIRING AND REPLACE WITH NEW LIGHTING FIXTURE, RELATED SWITCHING AND WIRING. (TYPICAL ALL FLOORS, SEE PLANS FOR LOCATION. PROVIDE NEW FIXTURES)

6. EXISTING CONDUIT RISER TO REMAIN. REMOVE ALL EXISTING WIRING AND CLEAN CONDUIT BEFORE INSTALLING NEW WIRE. (TYPICAL ALL FLOORS.)

7. EXISTING BATTERY UNITS AND REMOTE LIGHT HEADS TO BE REMOVED AND STORED IN SAFE PLACE. REMOVE EXISTING WIRING AND REPLACE WITH NEW. REINSTALL EXISTING UNITS AND HEADS. (TYPICAL ALL FLOORS.)

8. EXISTING ROOF EXHAUST FAN. REMOVE EXISTING WIRING AND INSTALL NEW WIRE. (TYPICAL ALL ROOF EXHAUST FANS.)

9. EXISTING CONDUIT IN SLAB TO BE ABANDON. REMOVE ALL EXISTING WIRING. (TYPICAL)

10. EXISTING MOTOR AND RELATED DISCONNECT SWITCH, CONTROLLER, RELAYS ETC... REMOVE EXISTING WIRING, CLEAN CONDUIT AND PROVIDE NEW WIRING (3#12 & 1#12 GND.)

11. PROVIDE NEW 3/4" CONDUIT WITH 7#12 (4 CIRCUITS, 1 FOR EACH FLOOR) FOR CONNECTION TO RECEPTACLES. CONDUIT TO RUN EXPOSED ON BASEMENT CEILING FROM EXISTING WIREWAY TO EXISTING JUNCTION BOX.

12. REMOVE EXISTING WIRING AND CLEAN CONDUIT. PROVIDE NEW WIRING (7#12, 4 CIRCUITS, 1 FOR EACH FLOOR) TO RECEPTACLES. BRING HOMERUNS TO RESPECTIVE PANEL. SEE PANEL SCHEDULES. (TYPICAL)

13. REMOVE EXISTING WIRING AND CLEAN CONDUIT. PROVIDE NEW WIRING (4#12, 2 CIRCUITS, 1 EACH FOR 2 FLOORS) TO BATH ROOM LIGHT AND RECEPTACLE. (TYPICAL)

14. REMOVE EXISTING WIRING AND CLEAN CONDUIT. PROVIDE NEW WIRING (3#12, 1 CIRCUIT FOR 4 FLOORS) TO LIGHT AND RECEPTACLE OUT SIDE OF BATHROOM AREA. (TYPICAL)

15. REMOVE EXISTING WIRING AND CLEAN CONDUIT. PROVIDE NEW WIRING. (9#12, 1 CIRCUIT FOR STAIR LIGHTING, 1 CIRCUIT EACH FLOOR FOR RECEPTACLES) (TYPICAL)

16. EXISTING CONTROL PANELS FOR ROOF FANS AND FRESH AIR UNIT. REMOVE EXISTING WIRING AND REPLACE WITH NEW. RUN HOMERUNS TO EXISTING PANEL "P" IN ELECTRIC ROOM.

17. EXISTING ELECTRONIC TEMPERATURE CONTROL PANELS. REMOVE EXISTING WIRING AND REPLACE WITH NEW. RUN HOMERUNS TO EXISTING PANEL "P" IN ELECTRIC ROOM. (PROVIDE WIRE)

18. EXISTING WIREWAY TO REMAIN. REMOVE ALL EXISTING WIRING. (TYPICAL)

19. EXISTING PANEL "C" TO REMAIN. REMOVE ALL EXISTING WIRING AND INSTALL NEW. SEE PANEL SCHEDULES. (PROVIDE WIRE)

20. EXISTING PANEL "D" TO REMAIN. REMOVE ALL EXISTING WIRING AND INSTALL NEW. SEE PANEL SCHEDULES. (PROVIDE WIRE)

21. EXISTING PANEL "B" TO REMAIN. REMOVE ALL EXISTING WIRING AND INSTALL NEW. SEE PANEL SCHEDULES. (PROVIDE WIRE)

22. EXISTING PANEL "A" TO REMAIN. REMOVE ALL EXISTING WIRING AND INSTALL NEW. SEE PANEL SCHEDULES. (PROVIDE WIRE)

23. PROVIDE PNL. "A1" TO BE FED FROM NEW 80A, 3POLE CIRCUIT BREAKER IN EXISTING PANEL "A". PROVIDE NEW CONDUIT AND WIRE AS REQUIRED. SEE PANEL SCHEDULE. (PROVIDE 80A, 3POLE CIRC. BKR.)

24. PROVIDE PNL. "B1" TO BE FED FROM NEW 80A, 3POLE CIRCUIT BREAKER IN EXISTING PANEL "B". PROVIDE NEW CONDUIT AND WIRING AS REQUIRED. SEE PANEL SCHEDULE. (PROVIDE 80A, 3P C.B.)

25. PROVIDE PNL. "D1" TO BE FED FROM NEW 80A, 3POLE CIRCUIT BREAKER IN EXISTING PANEL "D" PROVIDE NEW CONDUIT AND WIRING AS REQUIRED. SEE PANEL SCHEDULE. (PROVIDE 80A, 3P CB.)

26. PROVIDE PNL. "C1" TO BE FED FROM NEW 80A, 3POLE CIRCUIT BREAKER IN EXISTING PANEL "C" PROVIDE NEW CONDUIT AND WIRING AS REQUIRED. SEE PANEL SCHEDULE. (PROVIDE 80A, 3P CB.)

27. NEW BATHROOM EXH. FAN. PROVIDE WIRE TO EXISTING BATHROOM LIGHT SWITCH TO RUN WHEN LIGHT IS TURNED ON. (TYPICAL FOR ALL FLOORS.)

28. EXISTING FIXTURE, JUNCTION BOX AND RELATED WIRING TO BE REMOVED.

29. EXISTING SWITCH AND RELATED WIRING TO BE REMOVED. PROVIDE NEW SWITCH AND WIRING TO NEW 2'X2' FLUORESCENT FIXTURE.

30. EXISTING SWITCH, JUNCTION BOX AND RELATED WIRING TO BE REMOVED.

31. EXISTING RECEPTACLE, JUNCTION BOX AND RELATED WIRING TO BE REMOVED.

32. EXISTING FIXTURE AND RELATED WIRING TO BE REMOVED. RELOCATE JUNCTION BOX TO ACCOMMODATE NEW MEDICINE CABINET FIXTURE. PROVIDE NEW WIRING.

33. EXISTING ELEVATOR MOTOR WITH RELATED DISCONNECT SWITCH, CONTROLLER, RELAY ETC... REMOVE EXISTING WIRING (#1 RHW) AND REPLACE WITH NEW. REMOVE AND REPLACE ALL CONTROL WIRING. (PROVIDE ALL WIRING)

34. PROVIDE NEW 3/4" CONDUIT WITH 7#12 (4 CIRCUITS, 1 PER FLOOR) FOR NEW RISER FOR COUNTER HEIGHT GFI RECEPTACLE. (TYPICAL) (VIA WIRE WAY TO RESPECTIVE PNL.)

35. PROVIDE NEW 3/4" CONDUIT WITH 7#12 (4 CIRCUITS, 1 PER FLOOR) FOR NEW RISER FOR UNDER COUNTER REFRIGERATOR. (TYPICAL) (VIA WIREWAY TO RESPECTIVE PANEL)

36. PROVIDE NEW RECEPTACLE AND JUNCTION BOX FOR UNDER COUNTER REFRIGERATOR. (TYPICAL)

37. PROVIDE NEW GFI RECEPTACLE AND JUNCTION BOX TO BE MOUNTED AT COUNTER HEIGHT. (TYPICAL)

38. PROVIDE NEW FIXTURE AND WIRING TO EXISTING SWITCH (TO BE REPLACED, (29)). SEE FIXTURE SCHEDULE.

39. EXISTING EXTERIOR LIGHTING FIXTURE TO BE REMOVED AND STORE IN SAFE PLACE TO AVOID DAMAGE. PROVIDE NEW WIRING AND REINSTALL EXISTING FIXTURE. (TYPICAL)

40. PROVIDE NEW 3/4" CONDUIT FOR NEW RISERS TO GFI RECEPTACLE, UNDER COUNTER REFRIGERATOR AND TOILET GFI RECEPTACLE. (TYPICAL)

41. PROVIDE NEW SWITCHING AND WIRING FOR NEW BATHROOM COMBINATION LIGHT, NIGHT LIGHT, HEAT, EXHAUST FAN FIXTURE. (TYPICAL) INCLUDE JUNCTION BOXES.

42. PROVIDE NEW COMBINATION LIGHT, NIGHT LIGHT, HEAT, EXHAUST FAN FIXTURE IN BATHROOM. (TYPICAL) SEE FIXTURE SCHEDULE. INCLUDE JUNCTION BOX.

43. PROVIDE NEW LIGHT FIXTURE AND WIRING AT LOCATIONS SHOWN. SEE FIXTURE SCHEDULE. (TYPICAL) INCLUDE JUNCTION BOX.

44. PROVIDE NEW SWITCHING AND WIRING AT LOCATIONS SHOWN. (TYPICAL) INCLUDE JUNCTION BOXES.

45. PROVIDE NEW 3/4" CONDUIT WITH 7#12 (4 CIRCUITS, 1 PER FLOOR) FOR NEW RISER FOR BATHROOM GFI RECEPTACLE AND LIGHT FIXTURE. (TYPICAL)

46. PROVIDE NEW RECEPTACLE, WIRING AND JUNCTION BOX AT LOCATIONS SHOWN ON DRAWINGS. (TYPICAL)

47. REMOVE EXISTING WIRING AND CLEAN CONDUIT. PROVIDE NEW WIRING. (6#12, 1 CIRC. TO PNL. "E" AND 1 CIRC. TO PNL. "F" OR SIMILAR.)

48. PROVIDE 1" CONDUIT WITH 3#6 AND 1#8 GND FROM NEW 60A, 3POLE CIRC. BKR. IN EXIST. PANEL "H" (IN BASEMENT) TO NEW PANEL "L2" ON 2ND FLOOR, "L3" ON 3RD FLOOR AND "L4" ON 4TH FLOOR. RUN CONDUITS EXPOSED ON BASEMENT CEILING TO EXISTING PANEL "H".

I. T. ALMY ASSOCIATES
958 REGAN ROAD
SOMERSET, MA 02726

SYMBOL	DESCRIPTION	DATE	APP'VD
	AS BUILT 1-12-96 NO CHANGE	5-28-98	IVD

REVISIONS

DSGN.
DR.
BR. HD.
DIV. HD.
APPROVED
SAT TO
DATE 7/15/93

APPROVED
DATE 7/16/93

DEPARTMENT OF THE NAVY
NAVAL EDUCATION AND TRAINING CENTER
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

ALTERATIONS TO BUILDING #172, C.H.I.
ELECTRICAL
KEY NOTES

CODE ID. NO.	80091
DRAWING SIZE	D
SCALE:	NONE
CONST. CONTRACT NO.	N62472-92-C-1671
SPEC.	04-92-1671
NAVFAC DRAWING NO.	2160348
N.E.T.C. DRAWING NO.	30083-297
SHEET	27 OF 28

170032

PANEL SCHEDULE

MARK	CIRCUIT NUMBER	SIZE	WIRE	CIRCUIT DUTY	DESCRIPTION
A	1 THRU 24	20/1	12	RECEPTACLES	EXISTING PANEL IN BASEMENT. PROVIDE 4#1 AND 1#6 GND. IN EXISTING CONDUIT. (100A, 120/208V, 3φ, 4W.) PANEL TYPE "KELEK" NEQ WITH ITE CIRC. BKRS.
	25	20/1	12	CLOSET LIGHTING	
	26	20/1	12	TOILET LTG. AND REC.	
	27	20/1	12	TOILET LIGHTING	
	28	100/3	3	NEW PANEL "A1"	
A1	1 THRU 6	20/1	12	BATH RM. RECEPT.	NEW PANEL IN BASEMENT. 100 AMP,120/208 VOLT,3 PHASE,4 W PORVIDE 4#3 AND 1#6 GND. IN NEW 1 1/2" C. FROM EXIST. PNL. "A" WITH 80A. M.C.B.
	7 THRU 22	20/1	12	RECEPTACLES	
	23 THRU 25	20/1	12	BATH RM. RECEPT.	
	26 THRU 33	20/1	12	NEW PANTRY REFRIG.	
	34 THRU 41	20/1	12	NEW PANTRY RECEPT.	
	42	20/1		SPARE	
B	1 THRU 24	20/1	12	RECEPTACLES	EXISTING PANEL IN BASEMENT. PROVIDE 4#1 AND 1#6 GND. IN EXISTING CONDUIT. (100A, 120/208V, 3φ, 4W.) PANEL TYPE "KELEK" NEQ WITH ITE CIRC. BKRS.
	25 THRU 27	20/1	12	BATH RM. LIGHTING	
	28	100/3	3	NEW PANEL "B1"	
B1	1 THRU 5	20/1	12	BATH RM. RECEPT.	NEW PANEL IN BASEMENT. 100 AMP,120/208 VOLT,3 PHASE,4 W PORVIDE 4#3 AND 1#6 GND. IN NEW 1 1/2" C. FROM EXIST. PNL. "B" WITH 80A. M.C.B.
	6 THRU 13	20/1	12	RECEPTACLES	
	14,15	20/1	12	BATH RM. RECEPT.	
	16,17	20/1	12	CORRIDOR RECEPT.	
	18 THRU 29	20/1	12	NEW PANTRY REFRIG.	
	30 THRU 41	20/1	12	NEW PANTRY RECEPT.	
	42	20/1		SPARE	
C	1 THRU 7	20/1	12	BATH RM. LIGHTING	EXISTING PANEL IN BASEMENT. PROVIDE 4#1 AND 1#6 GND. IN EXISTING CONDUIT. (100 A, 120/208V, 3φ, 4W) PANEL TYPE "KELEK" NEQ WITH ITE CIRC. BKRS.
	8 THRU 19	20/1	12	RECEPTACLES	
	20,21	20/1	12	BATH RM. LIGHTING	
	22	100/3	3	NEW PANEL "B1"	
C1	1 THRU 8	20/1	12	RECEPTACLES	NEW PANEL IN BASEMENT. 100 AMP,120/208 VOLT,3 PHASE,4 V PORVIDE 4#3 AND 1#6 GND. IN NEW 1 1/2" C. FROM EXIST. PNL. "C" WITH 80A. M.C.B.
	9,10	20/1	12	LIGHTING	
	11 THRU 15	20/1	12	RECEPTACLES	
	16	20/1	12	BASEMENT RECEPT.	
	17 THRU 24	20/1	12	NEW PANTRY REFRIG.	
	25 THRU 32	20/1	12	NEW PANTRY RECEPT.	
	33 THRU 36	20/1	12	NEW BATH RM. LTG.	
	37 THRU 42	20/1		SPARES	

FIXTURE SCHEDULE

TYPE	STYLE AND TYPE- SEE SPECS FOR NAVFAC SKETCH	QUANITY AND TYPE OF LAMPS	VOLTAGE	MOUNTING	REMARKS
A	NL-3; TYPE "D" 2'x 4'	3-F40W T12	120	RECESS.	.125 THICK LENS
B	NL-3; TYPE "A" 2'x 2'	2-F40W T12 "U"	120	RECESS.	.125 THICK LENS
C	NL-46; TYPE "F" W/ POLYCARB. LENS	2-13W PL FLUOR.	120	SURFACE	DAMP LOCATION
D	NL-11; TYPE "A" BRACKET MTD.	1-F40W T12	120	WALL	WHITE
F	NL-101; TYPE "E" W/ACRYLIC LENS	2-13W PL FLUOR.	120	WALL	CHROME FINISH
G	NL-101; TYPE "E" W/ ACRYLIC LENS	2-13W PL FLUOR.	120	WALL	SAME AS TYPE "F" EXCEPT GOLD FINISH
H	NL-102; TYPE "A" HALL FIXTURE	1-60W A-19	120	WALL	SATIN ETCHED GLASS POLISHED BRASS
J	NL-4; TYPE "B" 50" FIXTURE	2-F40W T12	120	WALL	DOWN LIGHT ONLY
K	MEDICINE CABINET FIXTURE	—	120	WALL	FURNISHED BY OTHERS WIRED BY ELEC. CONTR.
L	NL-4; TYPE "A" 26" FIXTURE	2-F20W T12	120	WALL	DOWN LIGHT ONLY
M	NL-103; TYPE "A" BATH ROOM FIXTURE	1-100W A-19 1-7WC	120	CEILING	LIGHT, NITE LIGHT, EX. FAN, HEAT
N	NL-104; TYPE "A" 2-LAMP FIXTURE	2-60W A-19	120	WALL	MOUNT ABOVE MIRROR
P	NL-104; TYPE "B" 4-LAMP FIXTURE	4-60W A-19	120	WALL	MOUNT ABOVE MIRROR
R	NL-4; TYPE "A" 26" FIXTURE	2-F20W T-12	120	WALL	MOUNT UNDER KITCHEN CABINET

PANEL SCHEDULE

MARK	CIRCUIT NUMBER	SIZE	WIRE	CIRCUIT DUTY	DESCRIPTION
D	1,6	20/1	12	EMERGENCY UNITS	EXISTING PANEL IN BASEMENT. PROVIDE 4#1 AND 1#6 GND. IN EXISTING CONDUIT. (100A, 120/208V, 3φ, 4W.) PANEL TYPE "KELEK" NEQ WITH ITE CIRC. BKRS.
	2	20/1	12	TELEPHONE BOOTHS	
	3,4,5,8,10,11	20/1	12	BATH RM. LTG. AND REC.	
	7	20/1	12	LIGHTING	
	12 THRU 19	20/1	12	RECEPTACLES	
	20,21	20/1	12	BASEMENT LIGHTING	
	22	100/3	3	NEW PANEL "D1"	
D1	1 THRU 16	20/1	12	RECEPTACLES	NEW PANEL IN BASEMENT. 100 AMP,120/208 VOLT,3 PHASE,4 W PORVIDE 4#3 AND 1#6 GND. IN NEW 1 1/2" C. FROM EXIST. PNL. "D" WITH 80 A. M.C.B.
	17 THRU 28	20/1	12	NEW PANTRY REFRIG.	
	29 THRU 40	20/1	12	NEW PANTRY RECEPT.	
	41,42	20/1		SPARE	
E	1,2,5	20/1	12	STAIR LIGHTING	EXISTING PANEL IN BASEMENT. PROVIDE 4#6 AND 1#8 GND. IN EXISTING CONDUIT.
	3,4	20/1	12	CORRIDOR LIGHTING	
	6	20/1	12	WALKWAY LIGHTING	
F	1,2,5	20/1	12	CORRIDOR LIGHTING	EXISTING PANEL IN BASEMENT. PROVIDE 4#6 AND 1#8 GND. IN EXISTING CONDUIT.
	3,4	20/1	12	STAIR LIGHTING	
	6	20/1	12	ELEVATOR CAB	
H	1 THRU 4	20/1	12	NEW PANTRY REFRIG.	(225A, 120/208V, 3φ, 4W.) EXISTING PANEL IN BASEMENT. PROVIDE 4#2/0 AND 1#6 GND. IN EXISTING CONDUIT. PROVIDE 3-60A, 3P TO FEED PNLS. "L2", "L3" & "L4"
	5 THRU 8	20/1	12	NEW PANTRY RECEPT.	
	18 THRU 42	20/1		SPARES	
EXIT DUTY	1	20/1	12	WEST END	EXISTING PANEL IN BASEMENT. PROVIDE 4#2/0 AND 1#6 GND. IN EXISTING CONDUIT.
	2	20/1	12	CENTER	
	3	20/1	12	EAST END	
L2	1	20/1	12	LIGHTING	NEW PANEL IN DUCT UTILITY CLOSET. PROVIDE 4#6 AND 1#10 GND. IN NEW 1" CONDUIT. PROVIDE NEW 60A/3P C.B. IN PANEL "H". (60A, 120/208V, 3φ, 4W.)
	2,4	20/1	12	MICROWAVE	
	3	20/1	12	REFRIGIRATOR	
	5,6	20/1	12	COUNTER RECEPT.	
	7	20/1	12	ROOF EXHAUST FAN	
	8	30/3	10	RANGE	
	9,10	20/1		SPARES	
L3	1	20/1	12	LIGHTING	NEW PANEL IN DUCT UTILITY CLOSET. PROVIDE 4#6 AND 1#10 GND. IN NEW 1" CONDUIT. PROVIDE NEW 60A/3P C.B. IN PANEL "H". (60A, 120/208V, 3φ, 4W.)
	2,4	20/1	12	MICROWAVE	
	3	20/1	12	REFRIGIRATOR	
	5,6	20/1	12	COUNTER RECEPT.	
	7	30/3	10	RANGE	
	8,9,10	20/1		SPARES	
L4	1	20/1	12	LIGHTING	NEW PANEL IN DUCT UTILITY CLOSET. PROVIDE 4#6 AND 1#10 GND. IN NEW 1" CONDUIT. PROVIDE NEW 60A/3P C.B. IN PANEL "H". (60A, 120/208V, 3φ, 4W.)
	2,4	20/1	12	MICROWAVE	
	3	20/1	12	REFRIGIRATOR	
	5,6	20/1	12	COUNTER RECEPT.	
	7	30/3	10	RANGE	
	8,9,10	20/1		SPARES	

SYMBOL LIST

- FLUORESCENT LIGHT FIXTURE AND OUTLET. LETTER DENOTES FIXTURE TYPE. SUBSCRIPT INDICATES SWITCH CONTROL.
- SAME AS THE PRECEDING SYMBOL EXCEPT CONNECTED TO AN EMERGENCY SOURCE
- LIGHT FIXTURE AND OUTLET. LETTER DENOTES FIXTURE TYPE
- SAME AS THE PRECEDING SYMBOL, EXCEPT CONNECTED TO AN EMERGENCY SOURCE
- LIGHT FIXTURE AND OUTLET, WALL MOUNTED
- EXIT LIGHT FIXTURE AND OUTLET. ARROWS INDICATE DIRECTION TO EXIT.
- S SINGLE POLE SWITCH, MOUNTED 48" ABOVE FLOOR – "K" INDICATES KEY TYPE – "P" INDICATES WITH PILOT LIGHT – "2" INDICATES 2 POLE
- DUPLEX RECEPTACLE MOUNTED 16" ABOVE FLOOR TO BOTTOM ("C" INDICATES MOUNTED 6" ABOVE COUNTER TOP, "GFI" INDICATES GROUND FAULT INTERRUPTING TYPE)
- SPECIAL PURPOSE OUTLET TO MATCH EQUIPMENT
- FUSED DISCONNECT SWITCH
- SURFACE METAL RACEWAY
- MAGNETIC MOTOR STARTER
- MOTOR, NUMERAL INDICATES HORSEPOWER
- JUNCTION BOX
- MC CONTACTOR
- T TRANSFORMER
- EMERGENCY LIGHTING BATTERY UNIT
- EMERGENCY FLOOD LIGHT FIXTURE
- F FIRE ALARM PULL STATION
- FIRE ALARM GONG, MOUNTED WITH TOP EVEN WITH TOP OF DOOR.
- SD FIRE ALARM SMOKE DETECTOR ("D" INDICATES DUCT TYPE)
- F FIRE ALARM THERMODETECTOR, RATE-OF-RISE ("FT." INDICATES FIXED TEMPERATURE, "D" INDICATES DUCT TYPE)
- M FIRE ALARM MASTER BOX
- DH FIRE ALARM DOOR HOLDER
- FIRE ALARM INDICATING LIGHT, MOUNTED WITH TOP EVEN WITH TOP OF DOOR
- FS SPRINKLER ALARM FLOW SWITCH
- GVS SPRINKLER ALARM GATE VALVE SWITCH
- ELECTRIC PANEL, SURFACE MOUNTED
- HOMERUN TO PANELBOARD
- WIRING RUN TURNING UP
- WIRING RUN TURNING DOWN

GENERAL NOTES

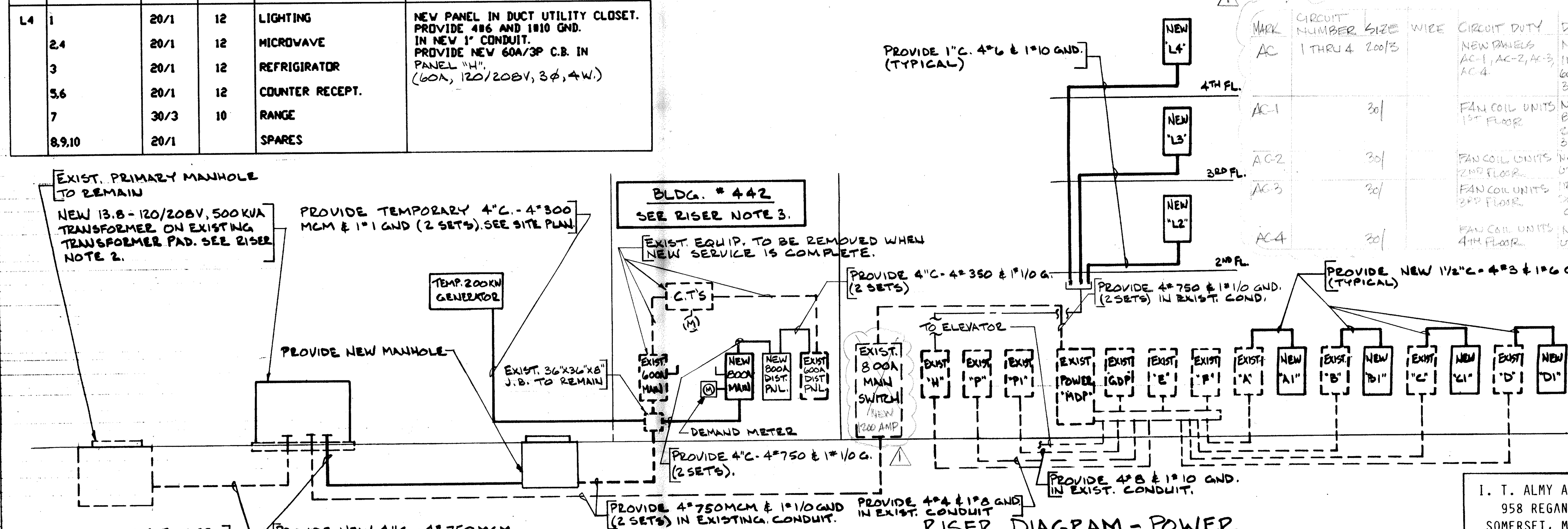
1. LOCATIONS SHOWN FOR CONNECTIONS TO EQUIPMENT ARE DIAGRAMMATIC. INSTALL FOR EASE OF MAINTENANCE AND TO SUIT EQUIPMENT.
2. PROVIDE ALL REQUIRED PULL BOXES, JUNCTION BOXES, AND DISCONNECT SWITCHES.
3. DO NOT INSTALL OUTLET BOXES BACK TO BACK.
4. COLOR CODE ALL WIRING.
5. PROVIDE CONDUIT SLEEVES AS REQUIRED. THROUGH FIRE RATED SEPERATIONS, SEAL AFTER WIRING IS COMPLETE.
6. SUPPORT EACH LIGHTING FIXTURE INDEPENDENTLY OF THE SUSPENDED CEILING SYSTEM AND COORDINATE ITS LOCATION WITH THE ENGINEER PRIOR TO INSTALLATION TO AVOID CONFLICTS WITH OTHER EQUIPMENT.
7. COORDINATE THE LOCATIONS OF CEILING MOUNTED EQUIPMENT WITH THE REFLECTED CEILING PLAN.
8. PROVIDE A NYLON PULL CORD IN ALL EMPTY CONDUITS.
9. NOTIFY THE TELEPHONE COMPANY AT LEAST TWO WEEKS IN ADVANCE FOR ANY MATERIAL OR WORK THAT THEY ARE PROVIDING.
10. VERIFY ALL CEILING TYPES AND MATERIALS BEFORE ORDERING ANY LIGHTING FIXTURES.
11. THE LOCATIONS OF HVAC EQUIPMENT SHOWN ON THESE DRAWINGS ARE APPROXIMATE. FOR EXACT LOCATIONS REFER TO HVAC AND SHOP DRAWINGS.
12. CONCEAL ALL WIRING UNLESS OTHERWISE NOTED.
13. PROVIDE ALL GROUNDING INCLUDING GREEN EQUIPMENT GROUND AS REQUIRED BY CODE. GROUND BUILDING SERVICE TO STREET SIDE OF WATER METER AND TO APPROVED GROUND ROD.

EXISTING ITEM NOTES

1. UNLESS OTHERWISE INDICATED, SYMBOLS SHOWN DASHED ARE EXISTING.
2. SEE SPECIFICATION SECTION: "REMOVALS AND RELOCATIONS".

RISER DIAGRAM NOTES

1. EXISTING 15KV PRIMARY FEEDER TO REMAIN. EXTEND FROM EXISTING PRIMARY MANHOLE FOR TERMINATIONS TO NEW TRANSFORMER AS REQUIRED.
2. PROVIDE NEW GROUND LOOP AROUND EXIST. TRANSFORMER PAD CONSISTING OF (4) 3/4X10' GROUND RODS AND #3/0 BARE CU. LOOP. PROVIDE ALL CONNECTIONS TO GROUND LOOP. AT TRANSFORMER PROVIDE 2 SETS OF SPADE LUGS FOR CONNECTION TO EACH SERVICE.
3. PROVIDE NEW 800A, 3 PHASE, 4 WIRE, 120/208 VOLT DISTRIBUTION PANEL WITH 1-600A/3P CIRCUIT BREAKER TO FEED EXISTING 600 A. DISTRIBUTION PANEL IN BUILDING #442.
4. SEE SHEET No. 22 FOR SITE PLAN, NAVFAC DWG. #2160343



MARK	CIRCUIT NUMBER	SIZE	WIRE	CIRCUIT DUTY	DESCRIPTION
AC	1 THRU 4	200/3		NEW PANELS AC-1, AC-2, AC-3, AC-4	NEW PANEL IN BASEMENT 600A 120/208 3 PHASE
AC-1		30/		FAN COIL UNITS 1ST FLOOR	NEW PANEL IN BASEMENT 225A 120/208 3 PHASE
AC-2		30/		FAN COIL UNITS 2ND FLOOR	NEW PANEL IN DUCT UTILITY CLOSET
AC-3		30/		FAN COIL UNITS 3RD FLOOR	NEW PANEL IN DUCT UTILITY CLOSET
AC-4		30/		FAN COIL UNITS 4TH FLOOR	NEW PANEL IN DUCT UTILITY CLOSET

RISER DIAGRAM - POWER
NOT TO SCALE

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958 REGAN ROAD
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SYMBOL	DESCRIPTION	DATE	APP'VD
1	AS BUILT 1-12-98	5-28-98	

REVISIONS

DSGN.
DR.
BR. HD. [signature] 7/15/93
DIV. HD.
APPROVED SAT TO [signature] 7-16-93
DATE
APPROVED TO [signature] PE 7/19/93
DATE

THOMAS BOYD ALMY No. 452 REGISTERED

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL EDUCATION AND TRAINING CENTER
NEWPORT, R.I.

ALTERATIONS TO BUILDING #172 C.H.I.
ELECTRICAL
SCHEDULES, SYMBOLS AND NOTES.

CODE ID. NO. 80091
DRAWING SIZE D
SCALE: AS NOTED
CONST. CONTRACT NO. N62472-92-C-1671
SPEC. 04-92-1671
NAVFAC DRAWING NO. 2160349
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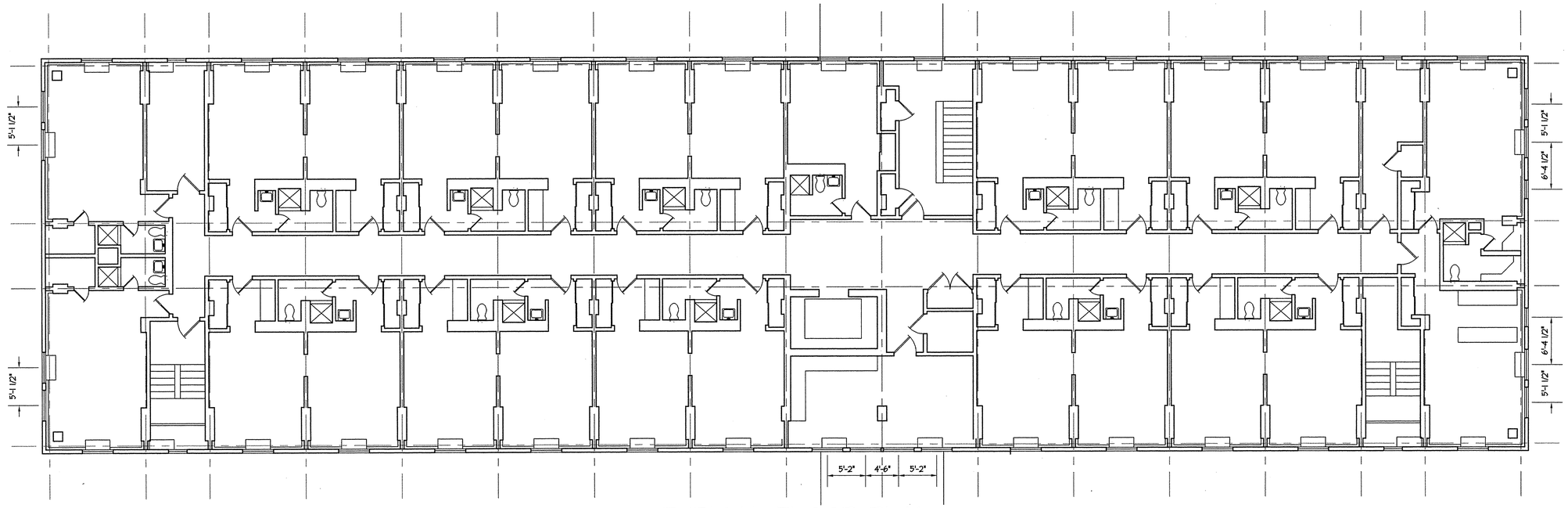
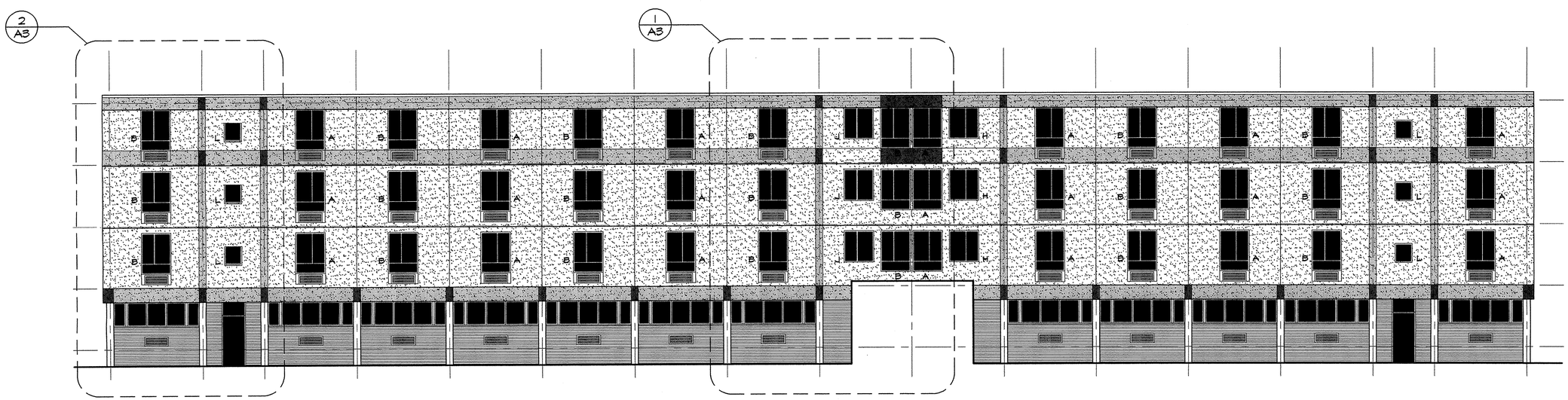
SHEET 28 OF 28

170032



TYPICAL FLOOR PLAN

1/8" = 1'-0"



SOUTH ELEVATION

1/8" = 1'-0"

E.I.F.S COLOR 1 | E.I.F.S COLOR 2 | E.I.F.S COLOR 3 | A WINDOW / WINDOW TYPE

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31150-307

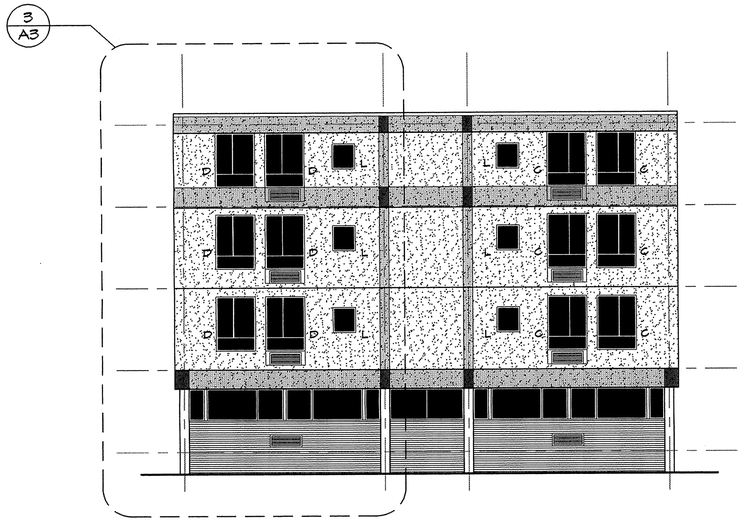
Exterior Wall Replacement

Building 172, Naval Education and Training Center
Newport, Rhode Island

Floor Plan, South Elevation

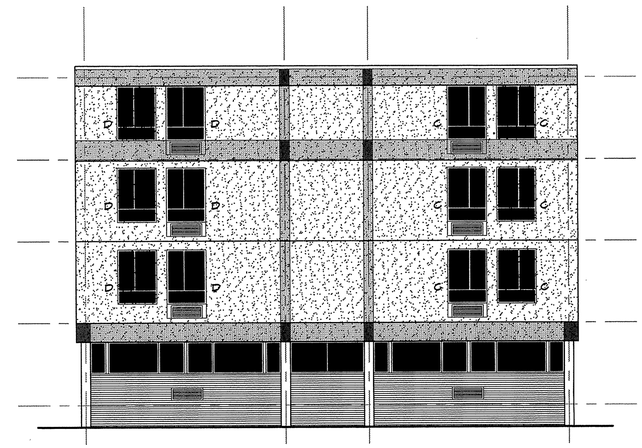
AMES & WHITAKER Architects
MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS
21 Church Street Waterbury, Connecticut 06702 (203) 756-8944 Fax (203) 756-9649

PROJECT NO. 9614
DRAWN BY: SCP
CHECKED BY: TGA
SCALE: 1/8" = 1'-0"
DATE: 5-23-96
DRAWING NUMBER A1



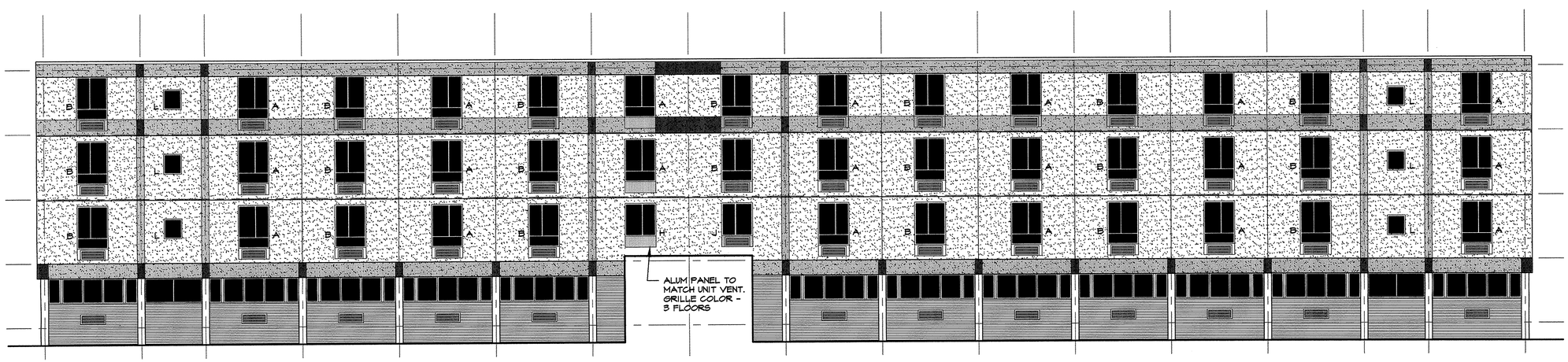
EAST ELEVATION

1/8" = 1'-0"



WEST ELEVATION

1/8" = 1'-0"



NORTH ELEVATION

1/8" = 1'-0"

E.I.F.S COLOR 1

E.I.F.S COLOR 2

E.I.F.S COLOR 3

A WINDOW / WINDOW TYPE

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31151-307

Exterior Wall Replacement

Building 172, Naval Education and Training Center
Newport, Rhode Island

East, West, North Elevations

AMES & WHITAKER Architects
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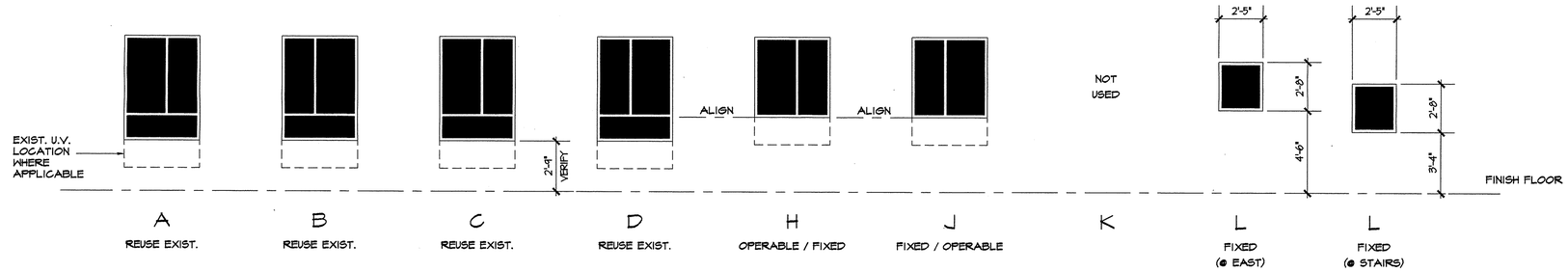
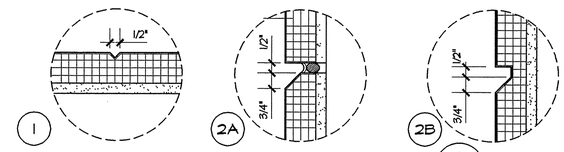
PROJECT NO. 9614
DRAWN BY: SCP
CHECKED BY: TGA
SCALE: 1/8" = 1'-0"
DATE: 5-23-96
DRAWING NUMBER
A2

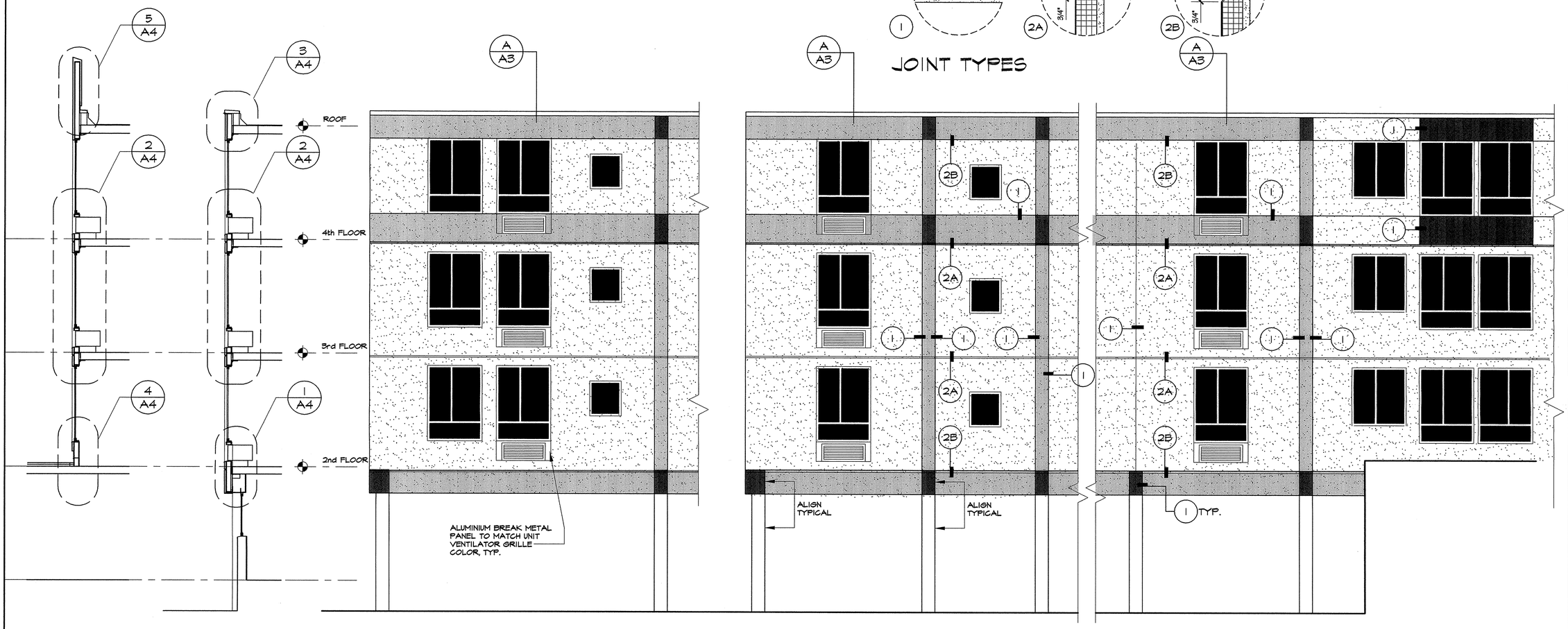


4/A3 WINDOW TYPES

1/4" = 1'-0"



JOINT TYPES



B/A3 SECT.

A/A3 SECT.

3/A3 PART. ELEV. @ EAST

1/4" = 1'-0"

2/A3 PART. ELEV. @ SOUTH

1/4" = 1'-0"

1/A3 PART. ELEV. @ SOUTH

1/4" = 1'-0"

E.I.F.S COLOR 1 | E.I.F.S COLOR 2 | E.I.F.S COLOR 3 | A WINDOW / WINDOW TYPE

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31152-307

Exterior Wall Replacement

Building 172, Naval Education and Training Center
Newport, Rhode Island

SECTIONS, PART ELEVATIONS

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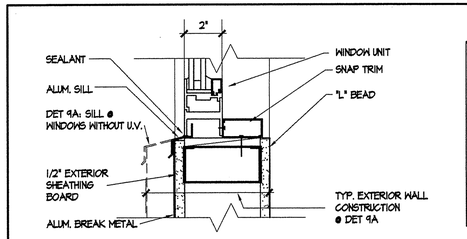
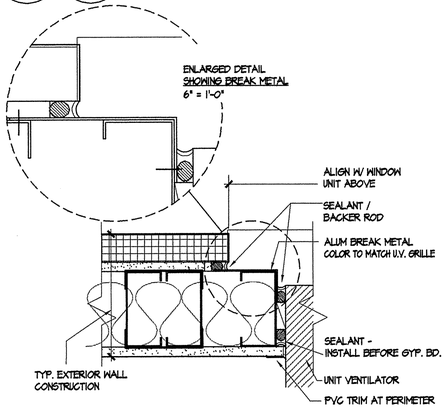
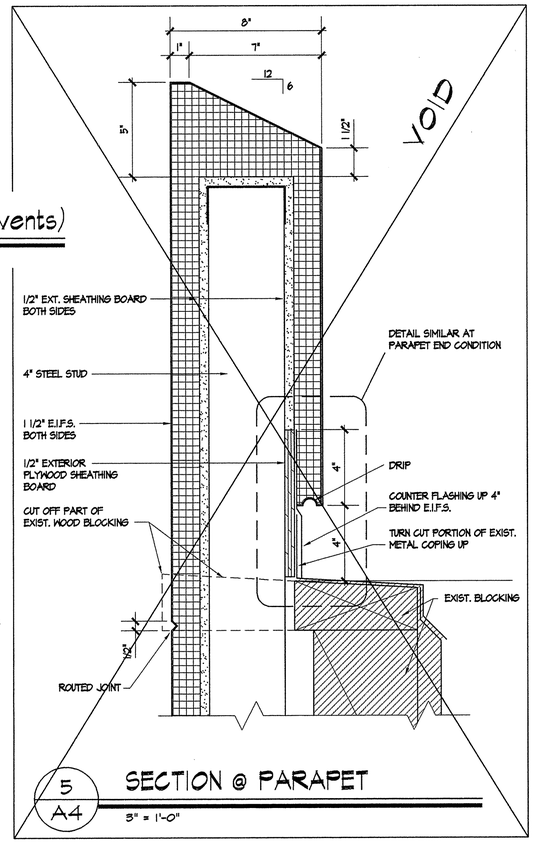
PROJECT NO. 9614
DRAWN BY: SCP
CHECKED BY: TGA
SCALE: 1/4" = 1'-0"
DATE: 5-23-96
DRAWING NUMBER A3



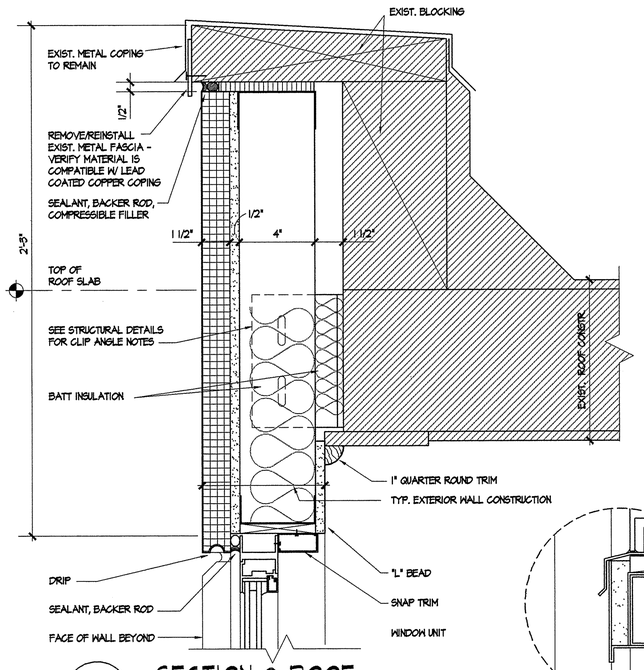
9A/A4 9/A4 SILL @ WNDW. (beside unit vents)
3" = 1'-0"



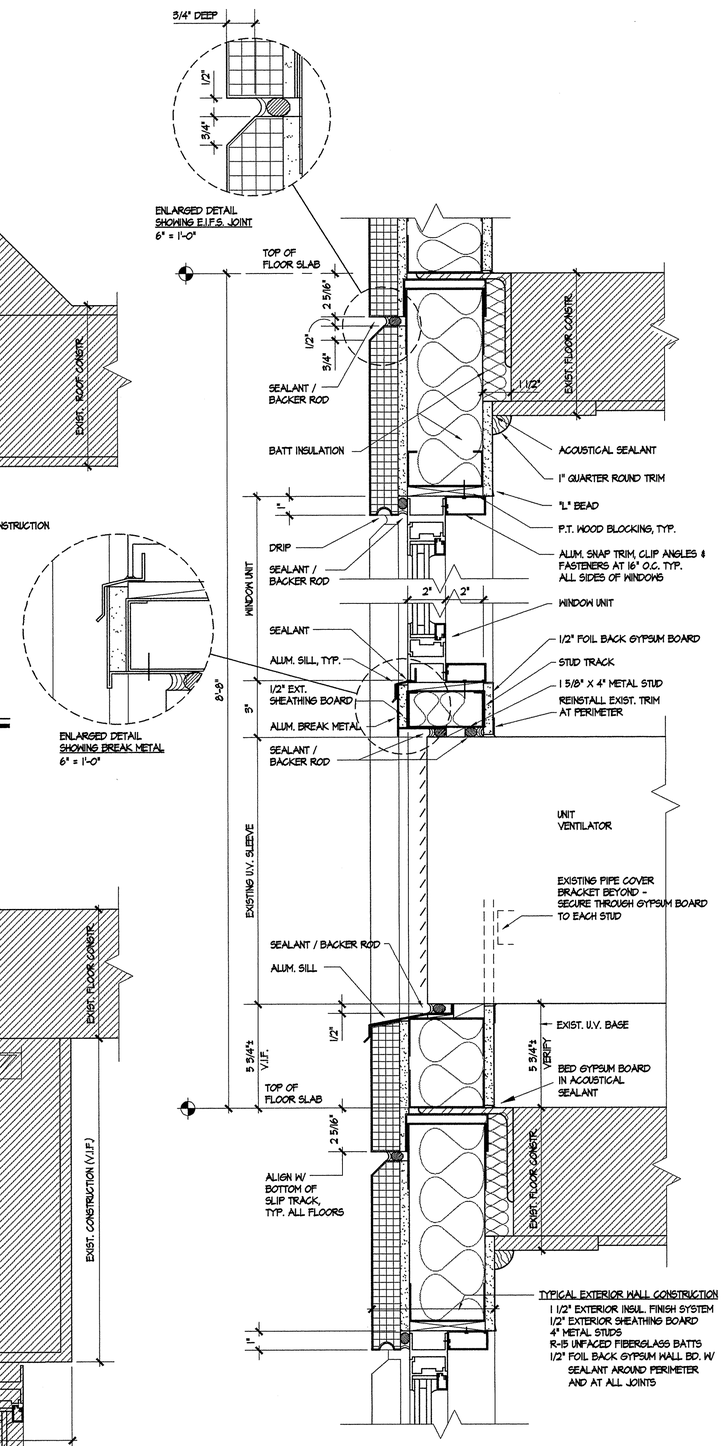
8/A4 PLAN @ JAMB / UV SLEEVE
3" = 1'-0"



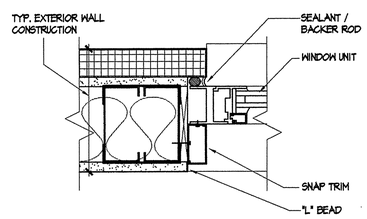
5/A4 SECTION @ PARAPET
3" = 1'-0"



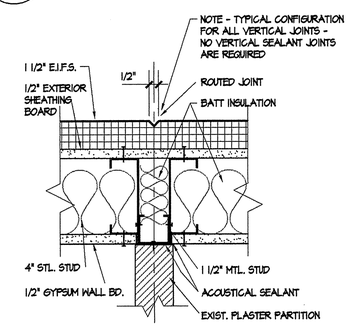
3/A4 SECTION @ ROOF
3" = 1'-0"



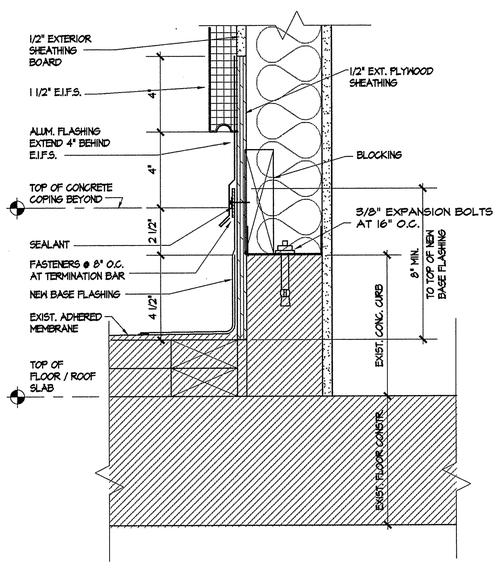
1/A4 SECTION @ TYP. WINDOW / UV OPENING
3" = 1'-0"



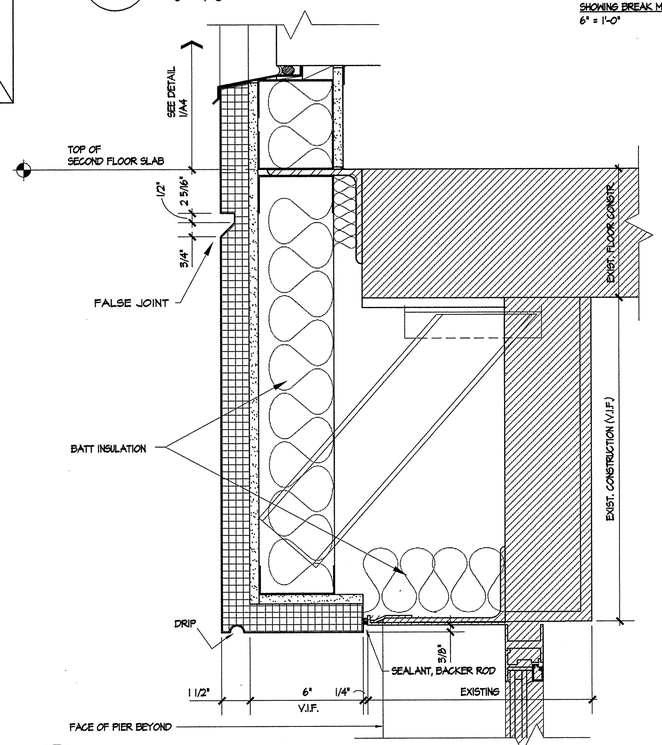
7/A4 PLAN @ WINDOW JAMB
3" = 1'-0"



6/A4 PLAN @ PARTITION
3" = 1'-0"



4/A4 SECTION @ CANOPY
3" = 1'-0"



2/A4 SECTION @ SECOND FLOOR
3" = 1'-0"

Exterior Wall Replacement

Building 172, Naval Education and Training Center
Newport, Rhode Island

DETAILS

AMES & WHITAKER Architects
MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS
21 Church Street Waterbury, Connecticut 06702 (203) 756-8944 Fax (203) 756-9849

PROJECT NO.	9614
DRAWN BY:	SCP
CHECKED BY:	TGA
SCALE:	3" = 1'-0"
DATE:	5-23-96
DRAWING NUMBER	A4

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31153-307

DIVISION 5

STRUCTURAL STEEL

Description of Work
- Work includes, but not necessarily limited to, the following:
  - All structural steel as shown on the drawings and as specified herein, including all items listed under Section 2 of the code mentioned below and shop painting.
  - Furnishing, fabricating, and erection of all structural steel: Conform to AISC "Code of Standard Practice for Steel Buildings and Bridges", unless otherwise specified.
  - Reference to AISC Specification shall mean the "Specification for Design, Fabrication, and Erection of Structural Steel for Buildings", latest edition.

Submittals
- Submit shop drawings for Architect's acceptance.

Products
- Structural Steel: ASTM Standard Specification A36.
- Adhesive Dowelling Anchors: Hilti Corp., Tulsa, OK.
- Expansion Bolts: Hilti Corp., Tulsa, OK.
- High strenth bolts ASTM 325.
- Arc-Welding Electrodes: Conform to American Welding Society Specification A5.1. Electrode Classification: E70 Series.
- Touch-up Paint: ZRC.
- Galvanizing: A.S.T.M. Standard Specification A384.

Shop Drawings
- Complete erection drawings, shop details and dowelling anchors and expansion bolt setting plans, and index of all details of all structural steel are to be made by this Contractor and submitted for acceptance. The method of presenting information with respect to elevation of finished floors and roof shall conform to the method used on the design drawings. Such acceptance will cover the location of steel members in relation to walls, partitions, and openings and the general design of details only. All dimensions shall be Contractor's responsibility.
- Field measure all existing conditions prior to submitting shop drawings and proceeding with fabrication.

Preparation
- Expansion and Adhesive Anchors: Expansion and adhesive anchors shall be placed with embedment in concrete as shown on drawings. Contractor to alert Architect immediately if placing of bolts interferes with existing rebars.

Fabrication
- Workmanship shall be equal to the best practice in the trade.
- Holes: All holes shall be accurately drilled or punched at right angles to the member. Burning or drifting unfair holes will not be permitted. Holes that must be enlarged shall be reamed.
- Steel shall be clean and straight.
- Fitted plates shall be flush bearing against main member.
- Welders: Welding for structural steel shall be performed by qualified welders and shall be in accordance with the "Structural Steel Welding Code" of the American Welding society, latest edition, and with the AISC specification heretofore mentioned.
- Welds: All welds shall be subject to visual inspection. All fillet welds may be subject to non-destructive testing when the appearance is suspect.
- All shop connections shall be welded.
- All field connections shall be anchored per details and specification. Provide washers under all elements turned.
- All connections shall be sufficient to develop the capacity of the member for size and spans shown except where details or reactions are given, indicating a greater capacity.
- Adhesive thread rod anchors are to be by Hilti Corp. Minimum size 5/8" diameter with a minimum concrete embedment of 7-1/2". Minimum ultimate shear capacity of 11,240# and bond strength of 17,500#. Installation shall be in strict accordance with manufacturer's requirements using appropriate Hilti adhesive, HIT C-100. Provide temporary support of angle during curing phase of adhesive. See manufacturer's recommendation for minimum curing time.
- Expansion bolts are to be by Hilti Corp., Type Kwik Bolt II carbon steel, minimum size <u>1/2" diameter, length 2-1/2" embedment.</u>
- All steel members, fasteners and their accessories shall be hot-dipped galvanized. Galvanizing shall be after all shop welded assemblies are completed.
- Field touch-up all galvanized surfaces that have exposed bare steel.

COLD-FORMED METAL FRAMING

Description of Work
- Work includes types of cold-formed metal framing units including the following:
  - C-shaped curtain-wall steel studs for exterior walls.
  - Miscellaneous steel stud framing at soffits and fascias.

Related Sections:
- Structural Steel.
- Exterior Insulation and Finish System, Sheet Metal Flashing and Trim.
- Fascia and Soffit Systems.
- Section for fenestration systems.

Submittals
- <u>Submit the following :</u>
  - Product data and installation instructions for each item of cold-formed metal framing and accessories.
  - Shop drawings for components and installations not fully dimensioned or detailed in manufacturer's product data.
    - Include erection drawings for all framing members showing size and gage designations, number, type, location, and spacing. Indicate supplemental strapping, bracing, splices, bridging, accessories, and details required for proper installation. Coordinate with adjacent and applied systems and components.
    - Full plan or elevation views, as applicable, of each area of work.
    - Details of all connections, opening perimeters, and other special conditions.

Quality Assurance
- Component Design: Design is based on structural properties of studs in accordance with American Iron and Steel Institute (AISI) "Specification for Design of Cold-Formed Steel Structural Members", and wall system in accordance with applicable code provisions for wind and seismic for components and cladding.
  - Limit deflections as follows:
    - <u>Metal framing and Soffits/Fascias: L/360.</u>
  - Welding: Use qualified welders and comply with American Welding Society (AWS) D1.3, Structural Welding Code - Sheet Steel.
  - Pre-Installation Conference: Prior to start of installation of metal framing systems, meet at project site with installers of other work including window frames and mechanical and electrical work. Review areas of potential interference and conflicts, and coordinate layout and support provisions for interfacing work.

Manufacturers
- Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the work include but are not limited to the following:
  - Marino Industries, Inc.
  - Superior Steel Studs, Inc.
  - USG Industries
  - United States Steel
  - Wheeling Corrugating Company

Metal Framing
- System Components: Manufacturer's standard load bearing steel studs of type, size, and shape indicated, and of gauges shown on drawing but not less than minimums specified below. With each type of metal framing required, provide manufacturer's standard steel runners (tracks) deep-leg sliptracks, blocking, lintels, clip angles, slide clips, shoes, reinforcements, fasteners, washers, and accessories for applications indicated, as needed to provide a complete metal framing system.
  - Minimum stud sill and header thickness: 20 gauge.
  - Minimum runner track thickness: 20 gauge.
  - Minimum deep-leg slip-track thickness: 14 gauge.
  - Clip angles, slide clip angles: 12 gauge.
  - Materials and Finishes:
    - For 16 gauge and heavier units, fabricate metal framing components of structural quality steel sheet with a minimum yield point of 40,000 psi: ASTM A 446, A 570 or A 611.
    - For 18 gauge and lighter units, fabricate metal framing components of commercial quality steel sheet with a minimum yield of 33,000 psi: ASTM A 446, A 570 or A 611.
    - Provide galvanized finish to metal framing components complying with ASTM A 525 for minimum G 60 coating.
    - Expansion bolts to be by Hilti Corp.
    - Power Fasteners: Type DX by Hilti Corp. Min, shank diameter 0.177", min. length to penetrate base steel.
    - Screws: Kwik-ProSelf drilling by Hilti Corp., coating type - stalgard. Head type - PPH Phillips Pan Head, minimum size #12-14.
    - Fasteners: Provide nuts, bolts, washers, screws and other fasteners with corrosion-resistant plated finish.
    - Electrodes for Welding: Comply with AWS Code and as recommended by stud manufacturer.
    - Galvanizing Repair: Where galvanized surfaces are damaged, prepare surfaces and repair in accordance with procedures specified in ASTM A 780.

- Fabrication
  - General: Framing components may be prefabricated into assemblies before erection. Fabricate panels plumb, square, true to line, and braced against racking with joints welded. Perform lifting of prefabricated units to prevent damage or distortion.
  - Fabricate units in jig templates to hold members in proper alignment and position and to assure consistent component placement.
  - Fastenings: Attach similar components in prefabricated assemblies by welding. Attach individual field erected components by welding, bolting, or screw fasteners, as standard with manufacturer, but not less than that shown on drawings.
  - Wire tying of framing components is not permitted.
  - Fabrication Tolerances: Fabricate units to a maximum allowable tolerance variation from plumb, level, and true to line of 1/8 inch in 10 feet.

- Installation
  - General: Install as a minimum metal framing systems in accordance with manufacturer's printed or written instructions and recommendations.
  - Runner Tracks: Install continuous tracks sized to match studs. Align tracks accurately to layout at base and tops of studs. Secure tracks as shown on drawings and minimum as recommended by stud manufacturer for type of construction involved, except do not exceed 16 inches o.c. spacing for attachment. Provide fasteners at corners and ends of tracks.
- Installation of Wall Studs: Secure studs to top and bottom runner tracks by either welding or screw fastening at both inside and outside flanges, minimum shown on drawings.
  - Do not screw top tracks to sliptracks. Allow superstructure deflection shown. <u>Allow 1/2" space between top of track and sliptrack for live load deflection of</u> superstructure.
  - Set studs plumb, except as needed for diagonal bracing.
    - Plumb studs bypassing angles and align for in-plane walls, shimming as necessary between side clips and superstructure. Shim material to be similar to studs.
  - Install studs tight to bear on tracks.
  - Install supplementary framing, blocking, and bracing in metal framing system wherever walls are indicted to support windows, fixtures, equipment, services, casework, heavy trim and furnishings, and similar work requiring attachment to the wall. Where type of supplementary support is not otherwise indicated, comply with stud manufacturer's recommendations and industry standards in each case, considering weight or loading resulting from item supported.
  - Frame wall openings larger than 2 feet square with double stud at each jamb of frame except where more than two are either shown or indicated in manufacturer's instructions. Install runner tracks and jack studs above and below wall openings. Anchor tracks to jamb studs and space jack studs as shown, maximum spacing similar to full height studs of wall.
  - Frame both sides of expansion and control joints with separate studs; do not bridge the joint with components of stud system.
  - Install horizontal stiffeners in stud system at free edges of wall board.
  - Install washers under all nuts on thru/expansion/adhesive bolts.
  - Erection Tolerances: Bolt, screw or weld wall panels (at both horizontal and vertical junctures) to produce flush, even, true-to-line joints.
    - Maximum variation in plane and true position between prefabricated assemblies should not exceed 1/16 inch.
  - Field Painting: Touch-up damaged shop-applied protective coatings. Use compatible galvanizing repair system for galvanized surfaces.

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DIVISION 7

INSULATION

- Unfaced fiberglass batt insulation ASTM 665.
  - Certainteed Corp. building insulation, <u>3-1/2" thick, R-15 or equal.</u>
- Extend insulation full thickness to envelop entire area to be insulated. Cut and fit tightly around obstructions. Fill voids with insulation.
- Protect insulation from weather, replace any insulation that has gotten wet.

EXTERIOR INSULATION & FINISH SYSTEM

- Senergy Senerflex Wall System: Composite wall (and soffit) exterior insulation and finish system consisting of rigid insulation, base coat, reinforcing mesh and finish coat.
  - Applicator: Approved by Senergy, Inc. in performing work of this Section
  - Regulatory Requirements: Conform to applicable code requirements for finish system.
  - Deliver Senerflex Wall System materials in original unopened packages with manufacturer's labels intact.
  - Store Senerflex Wall System materials in cool, dry place protected from freezing. Store at no less than <u>4°C/40°F. Protect from extreme heat and direct sunlight.</u>
  - Store insulation board flat and protected from direct sunlight and extreme heat.
  - Do not apply Senerflex Wall System in ambient temperatures below <u>4°C/40°F.</u> Provide supplementary heat during installation and drying period when temperatures <u>less than 4°C/40°F prevail.</u>
  - Do not apply Senerflex Wall System materials to frozen surfaces.
  - Coordinate and schedule installation of trim, flashing, and joint sealers to prevent water infiltration behind the System.
  - Provide Senergy, Inc. standard five-year labor and material warranty for Senerflex Wall System installations greater than 10,000 square feet of wall area.
  - Comply with Senergy, Inc. project review requirements and notification procedures to assure qualification for warranty.
- Senerflex Wall System (Class PB System) manufactured by Senergy, Inc.
  - Senerprime: black tinted, 100% acrylic based sheathing primer.
  - Insulation Board: Expanded Polystyrene; ASTM C578, Type I; Flame spread less than 25, smoke developed less than 450 per ASTM E84, UL 723; minimum density 14.41 kg/m3 (.9 lb./ft3; K=6.09 per millimeter (0.24 per inch); 19 mm (3/4" thickness minimum as indicated on Drawings; meeting the following:
    1. Air dried (aged) six weeks, or equivalent, prior to installation.
    2. Edges: Square within .8 mm per meter (1/32" per foot).
    3. Thickness: Tolerance of plus or minus 1.6 mm (1/16").
    4. Size: .6 m x 1.22 m (2' x 4').
    5. Length and width: Tolerance of plus or minus 1.6 mm (1/16").
  - Senerflex INSUL-FILTM: Trowel-applied, white, fluffy, insulation board gap-filler; manufactured by Senergy, Inc.
  - NC-II BASE: 100% acrylic polymer-based, non-cementitious base coat; manufactured <u>by Senergy, Inc.</u>
  - Water: Clean and potable without foreign matter.
  - Senerflex Reinforcing Mesh: MIL-Y-1140G; Balanced, open weave glass fiber reinforcing mesh; twisted multi-end strands treated for compatibility with Senerflex Wall System components.
    - FLEXGUARD 6: Standard/medium weight.
  - <u>Corner Grid: Intermediate weight, for reinforcing at corners.</u>
  - <u>Senergy ASAP: 100% acrylic-based coating; manufactured by Senergy, Inc. for sealant joint preparation.</u>
  - Senergy TINTED PRIMER: 100% acrylic-based primer; color to closely match the selected Senergy Finish Coat color; manufactured by Senergy, Inc.
  - Senergy Finish Coat: 100% acrylic resin finish; air cured, compatible with Base Coat; Finish color factory-mixed; color as selected; Finish texture SAHARA.

INSTALLATION
- Protect all surrounding areas and surfaces from damage and staining during application of Senerflex Wall System.
  - Protect finished work at end of each day to prevent water penetration.
  - Senerprime- required for Dens-Glas Gold,ext. plywood and OSB sheathing substrates.
    - Apply Senerprime uniformly to substrate with roller or good quality brush or spray as recommended by Senergy.
    - Note: apply to areas that will receive insulation board of same day.
    - Note: Senerprime shall be dry to the touch before proceeding to Base coat application.
  - Senerflex insulation board:
    - Apply horizontally in a running bond.
    - Pre-cut insulation board to fit openings, projections. Insulation board must be a single piece around corners of openings. Stagger vertical joints and corners. Stagger insulation and sheathing board joints.
    - Sheathing Substrates: Apply mixed SENERQUICK ADHESIVE to entire surface of insulation board using a stainless steel trowel with 5 mm x 5 mm (3/16" x 3/16") notches spaced 5 mm (3/16") apart.
    - Immediately slide board into place and apply pressure over entire surface of board to ensure uniform contact and high initial grab. Do not allow SENERQUICK ADHESIVE/NC-II BASE to dry prior to installing.
    - Fill gaps between insulation boards with INSUL-FIL <u>as noted below, or slivers</u> of insulation board.
    - Allow application of insulation board to dry (normally 8 to 10 hours) prior to application of NC-II BASE/Reinforcing Mesh.
    - Install expansion joints and other joints as indicated on Drawings. Do not align <u>aesthetic grooves with insulation board joints.</u>
  - <u>Senerflex INSUL-FIL.</u>
    - <u>Apply mixed INSUL-FIL to minor gaps (13 mm 1/2") maximum width between</u> insulation boards with a clean, stainless steel trowel. Gaps larger than <u>13 mm (1/2")</u> must be filled with slivers of insulation board.
    - Fill gaps completely and to a minimum depth of 19 mm (3/4").
    - Ensure wet INSUL-FIL material is level with or slightly above the surface of insulation board.
    - Remove excess INSUL-FIL from face of insulation board.
    - Allow INSUL-FIL to dry completely, normally 24 hours, before rasping flush with adjoining insulation boards.
  - NC-II BASE/Reinforcing Mesh: NC-II BASE shall be applied so as to achieve Reinforcing Mesh embedment with no Reinforcing Mesh color visible.
    - Senerflex CORNER GRID:
      - Install CORNER GRID at exterior corners.
      - Apply CORNER GRID prior to application of FLEXGUARD Reinforcing Mesh.
      - Cut CORNER GRID to workable lengths.
      - Immediately place CORNER GRID against the wet NC-II BASE and embed the CORNER GRID into the NC-II BASE is dry and hard, apply a layer of FLEXGUARD 6 Reinforcing Mesh over the entire surface of the CORNER <u>GRID as noted below.</u>
    - FLEXGUARD 6 Reinforcing Mesh:
      - Install FLEXGUARD throughout.
      - Apply mixed NC-II BASE to entire surface of insulation board with a stainless steel trowel to embed the Reinforcing Mesh.
      - Immediately place FLEXGUARD 6 Reinforcing Mesh against wet NC-II BASE and embed the Reinforcing Mesh into the NC-II BASE by troweling from the center to the edges.
      - Lap Reinforcing Mesh 64 mm (2-1/2") minimum at edges.
      - Ensure Reinforcing Mesh is continuous at corners, free of wrinkles and embedded in NC-II BASE so that no Reinforcing Mesh color is visible.
      - If required, apply a second layer of NC-II BASE to achieve total nominal NC-II BASE/Reinforcing Mesh thickness of 1.6 mm (1/16").
      - Allow NC-II BASE with embedded Reinforcing Mesh to dry hard (normally 8 to 10 hours.)
  - Senergy ASAP:
    - Apply material to the NC-II BASE/Reinforcing Mesh in sealant joints with a high-quality, latex-type paint brush.
    - Work material continuously until a uniform appearance is obtained.
    - Allow to dry thoroughly (approximately 24 hours) prior to application of sealant primer and sealant.
  - Senergy TINTED PRIMER:
    - <u>Apply TINTED PRIMER to the NC-II BASE/Reinforcing Mesh with a sprayer,</u> 10 mm (3/8") nap roller, or good-quality latex paint brush at a rate of <u>approximately 150-250 sf per gallon.</u>
    - TINTED PRIMER shall be dry to the touch before proceeding to the Senergy Finish Coat application.
  - Senergy Finish Coat:
    - Apply Finish Coat directly to NC-II BASE/Reinforcing Mesh with a clean stainless steel trowel.
    - Apply and level Finish Coat during same operation to minimum obtainable thickness consistent with uniform coverage.
    - Maintain a wet edge on Finish Coat by applying and texturing continually over the wall surface.
    - Work Finish Coat to corners, joints, or natural breaks and do not allow material to set up within an uninterrupted wall area.
    - Float Finish Coat to achieve final texture.
    - Clean adjacent surfaces and remove excess material, droppings, and debris.
    - Protect finished work.

SEALANTS

- Provide continuous acoustical sealant where new gypsum board meets floor, walls and ceiling <u>and at all joints. ASTM C834.</u>
  - Pecora AC-20-FTR, BA-98 or equal.
- Exterior, elastomeric sealant - urethane base, type S, grade NS, class 25, exposure NT.
  - Pecora Dynatrol I.
- Use joint filler compatible with sealant manufacturer's recommendations.

DIVISION 8

METAL WINDOWS

- New clear anodized aluminum thermally broken fixed window units. Conform to NETC alteration project specification requirements. Finish to match WINCO replacement window units.
  - Extruded members shall be 6063 T6 aluminum alloy, minimum 1/8" thickness.
  - Thermal insulator between interior and exterior members to be poured in place polyurethane.
  - Extruded aluminum snap-in glazing bead to accept glazing up to 1" thick.
  - Insulated glazing to be (2) panes of 3/16" clear annealed glass separated by a <u>1/2" air space.</u>
- Existing metal windows to be removed from aluminum curtain wall system and reinstalled in new metal stud framed exterior wall system.
  - Remove existing sealant form perimeter of window frames.
  - Install level and plumb, check that operable sash function properly.
- Installation at new and reinstalled windows to be with new extruded aluminum clip angles and snap trim.
- Provide new extruded aluminum sills and aluminum trim at all new and reinstalled window units and at unit ventilators on floors 2, 3 and 4. Finish to match WINCO replacement window units.

DIVISION 9

PAINTING

- Paint new gypsum board, touch up existing plaster and wood ceiling trim.
- Prime new gypsum board and wood trim per manufacturer's recommendations.
- Match existing paint material, color and sheen.

GYPSUM BOARD

- Interior Foil Back Gypsum Board: ASTM C588 thickness as indicated, non-rated with tapered edge.
  - Trim Accessories: ASTM C840: manufacturer's standard trim accessories, including cornerbead and edge trim of beaded type with face flanges for concealment in joint compound.
  - Gypsum Board Joint Treatment Materials: ASTM C 475 and ASTM C 840 and as follows:
    - Joint Tape: Paper reinforcing tape.
    - Drying-Type Joint Compounds: Factory-prepackaged, pre-mixed, vinyl-based all-purpose compound.
  - Install and finish gypsum board to comply with ASTM C 840 and as follows:
    - Isolate drywall construction from abutting structural and masonry work; provide edge trim and acoustical sealant as recommended by manufacturer.
    - Screw gypsum board to supports.
    - Drywall Finishing: Apply joint tape and joint compound at joints between gypsum boards. Apply compound at accessory flanges, penetrations, fastener heads and surface defects.
      - Install compound in 3 coats (plus prefill of cracks where recommended by manufacturer); sand between coats and after last coat.
- Exterior Sheathing Board: 1/2" Dens-Glas Gold, 1/2" exterior plywood-exposure 1 or OSB exposure 1.
  - Install sheathing board with Water head corrosion resistant fasteners manufactured by Buildex corporation. Space fasteners to accomodate 110 mph wind speed.

31154-307

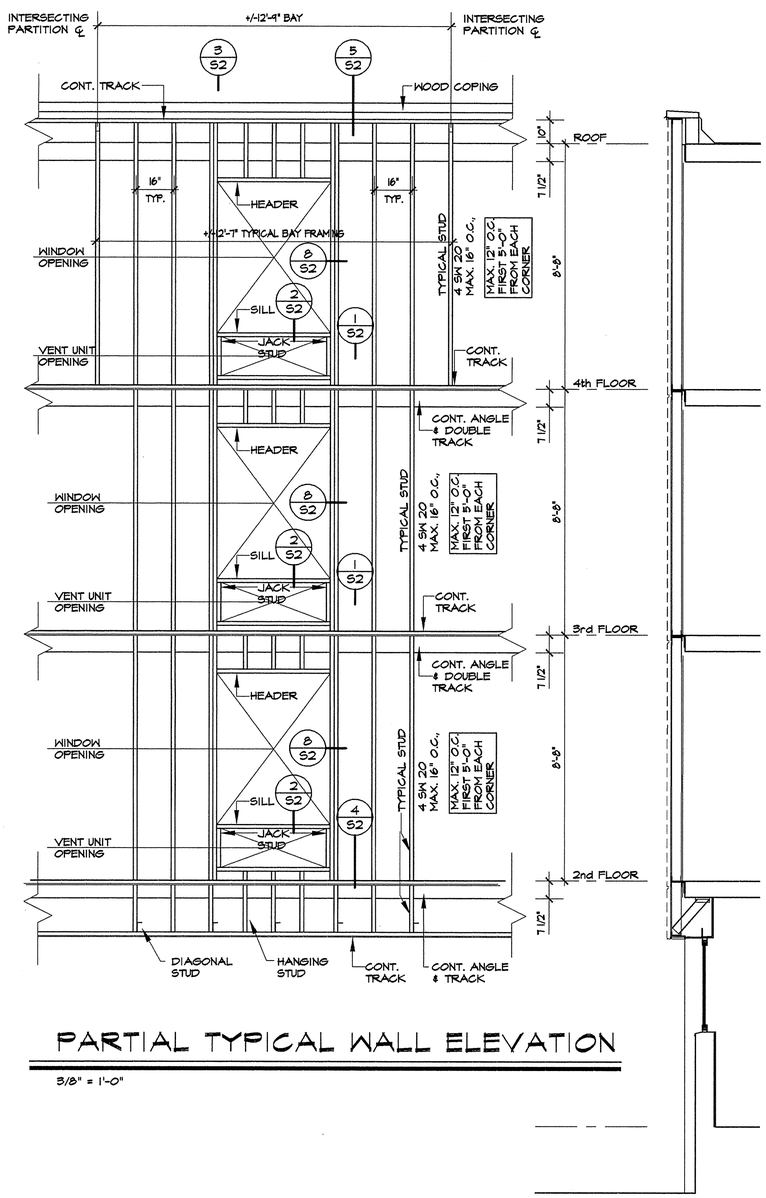
Exterior Wall Replacement

Building 172, Naval Education and Training Center
Newport, Rhode Island

SPECIFICATIONS

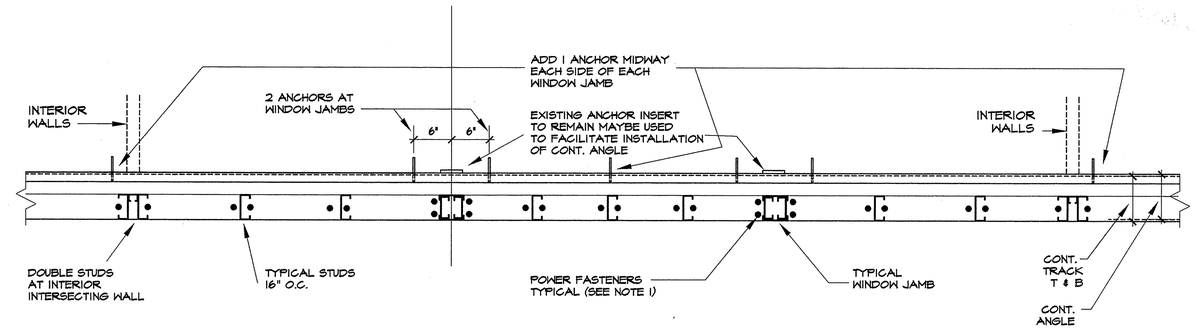
AMES & WHITAKER
Architects
MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS
21 Church Street Waterbury, Connecticut 06702 (203) 756-8944 Fax (203) 756-9848

PROJECT NO. 9614
DRAWN BY: DB
CHECKED BY: TGA
SCALE: N.A.
DATE: 5-23-96
DRAWING NUMBER A5



PARTIAL TYPICAL WALL ELEVATION

3/8" = 1'-0"



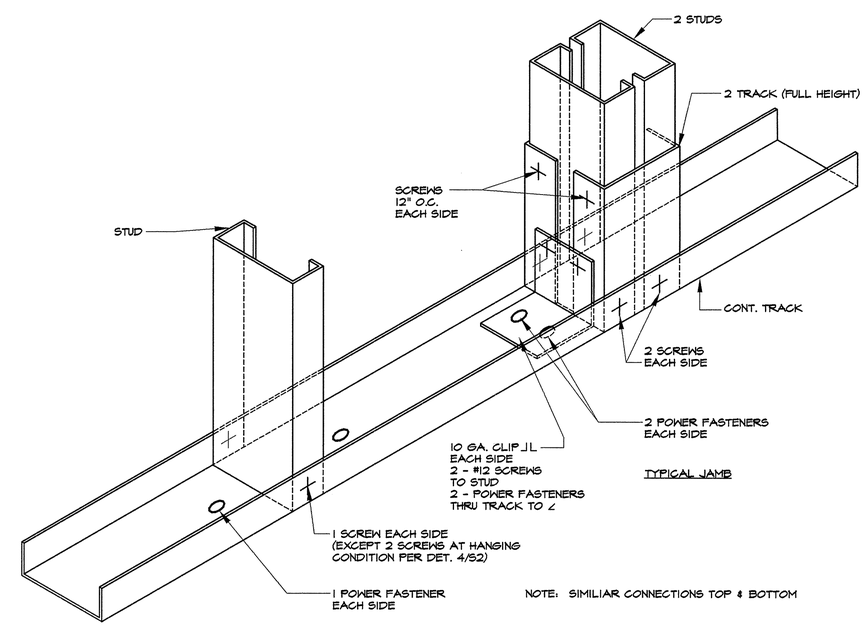
TYP. PLAN OF ANCHOR LOCATION FOR CONT. 5 X 5 ANGLE, 2ND, 3RD & 4TH FLOOR

1" = 1'-0"

MAX. 9" FROM END OF CONC, SEE DET. 10 /S2

NOTE 1:

TYP. TRACK TO 5 X 5 ANGLE ALL LEVELS
(POWER FASTENER SHOWN THUS ●)
MIN. SHANK 0.177"
(2) AT EACH SINGLE STUD, ONE EACH SIDE
(4) AT EACH WINDOW JAMB, TWO EACH SIDE



NOTE: SIMILIAR CONNECTIONS TOP & BOTTOM

NOTE: MIN. SCREW SIZES FOR ALL CONNECTIONS #12-14

PARTIAL TYPICAL WALL ELEVATION

3" = 1'-0"

31155-307

F:\SDSKPROJ\9614\9614S1 5-24-96 8:34:18 am EST

Exterior Wall Replacement

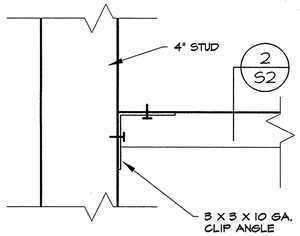
Building 172, Naval Education and Training Center
Newport, Rhode Island

STRUCTURAL DETAILS

Tor Smolen Calini & Anastos, Consulting Engineers
424 Chapel Street PO Box 8206 New Haven, CT 06530 (203) 865-1174

AMES & WHITAKER Architects
21 Church Street Waterbury, Connecticut 06702 (203) 756-8944 Fax (203) 756-8949

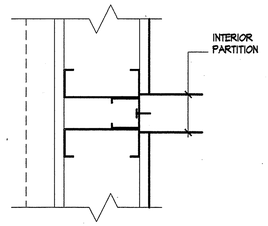
PROJECT NO. 9614
DRAWN BY: DB
CHECKED BY: AC
SCALE: AS NOTED
DATE: 5-23-96
DRAWING NUMBER S1



TYP. CONN. BETWEEN SILL & HEADER TO STUDS & JAMBS

12 / S2

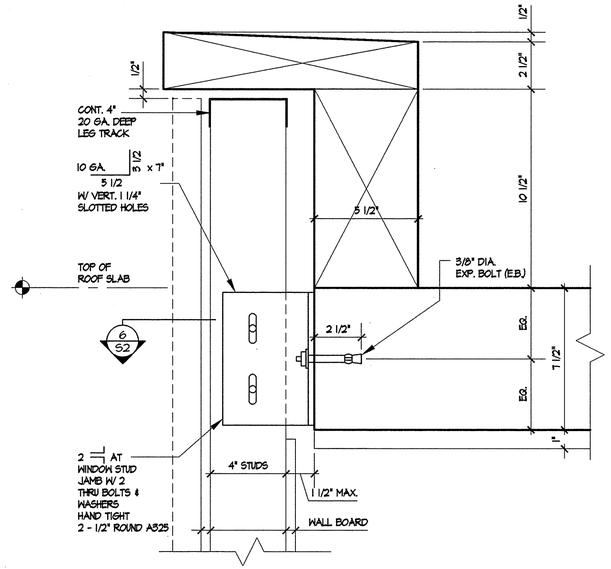
3" = 1'-0"



PLAN @ PARTITION

9 / S2

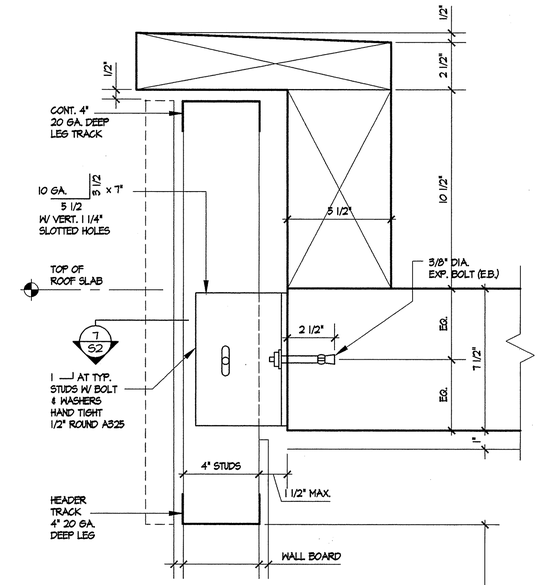
3" = 1'-0"



ROOF SECTION @ WINDOW JAMB STUDS

5 / S2

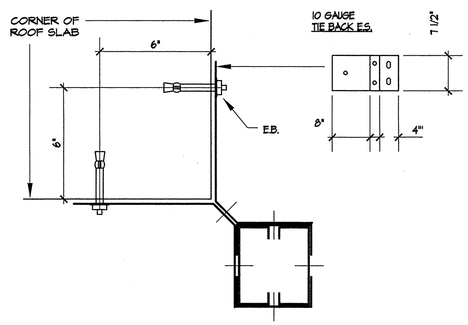
3" = 1'-0"



SECTION @ ROOF / WNDW. HEAD

3 / S2

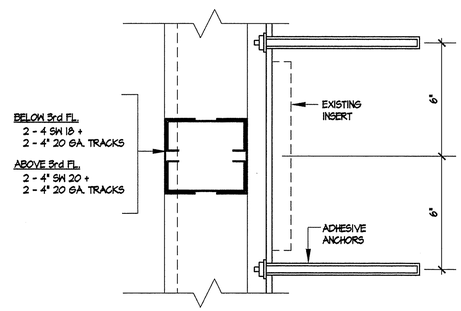
3" = 1'-0" TYPICAL STUDS SIMILAR WITHOUT HEADER TRACK



TIE BACKS AT ROOF CORNERS

11 / S2

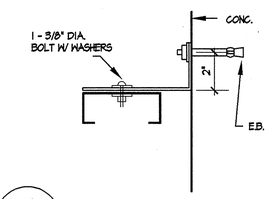
3" = 1'-0"



PLAN @ TYPICAL WINDOW JAMB STUD

8 / S2

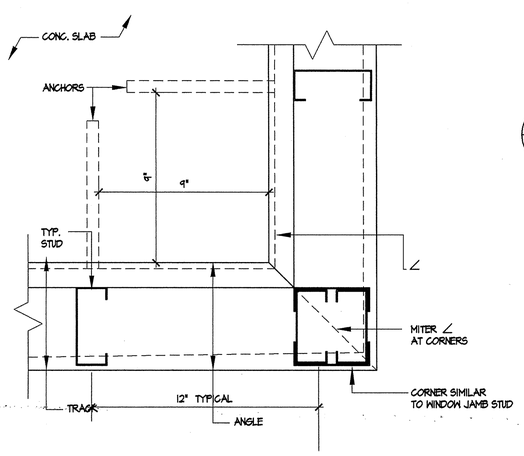
3" = 1'-0"



PLAN @ TYPICAL STUD

7 / S2

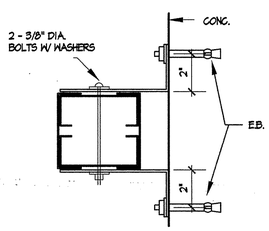
3" = 1'-0"



TYP. PLAN @ CORNER: 2nd, 3rd & 4th FL.

10 / S2

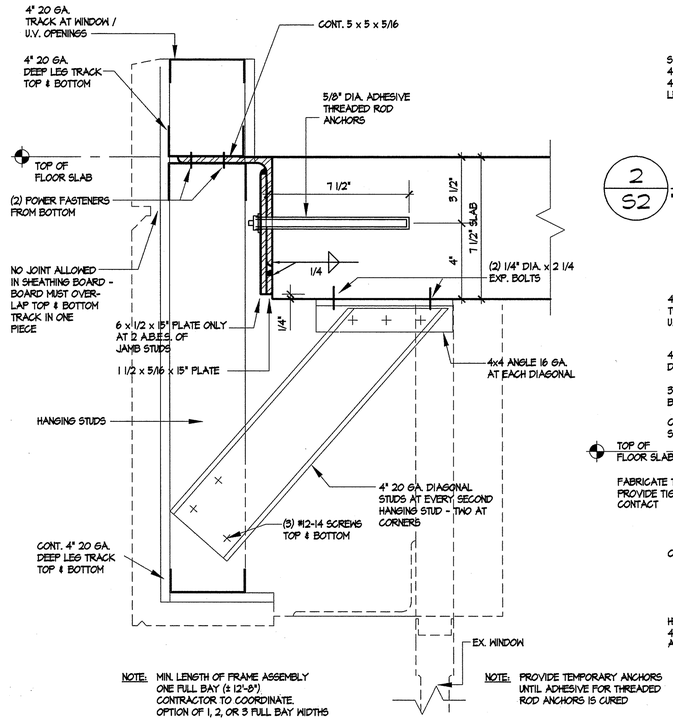
3" = 1'-0"



PLAN @ WNDW. JAMB

6 / S2

3" = 1'-0"



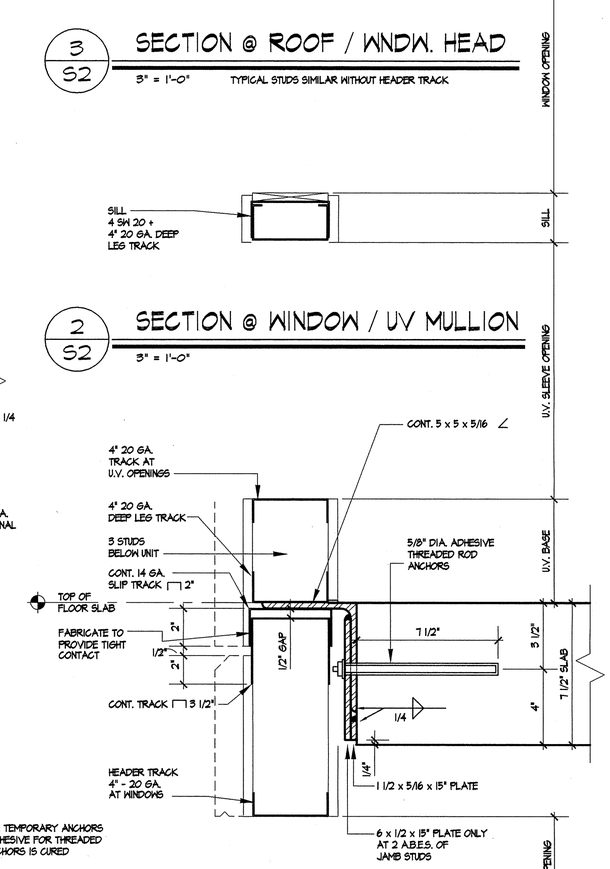
NOTE: MIN. LENGTH OF FRAME ASSEMBLY ONE FULL BAY (± 12'-8") CONTRACTOR TO COORDINATE. OPTION OF 1, 2, OR 3 FULL BAY WIDTHS

NOTE: PROVIDE TEMPORARY ANCHORS UNTIL ADHESIVE FOR THREADED ROD ANCHORS IS CURED

SECTION @ SECOND FLOOR

4 / S2

3" = 1'-0"



SECTION @ WINDOW / UV MULLION

2 / S2

3" = 1'-0"

SECTION @ 3RD & 4TH FLOOR

1 / S2

3" = 1'-0"

F:\SDSKPROJ\9614\9614S2 5-24-96 8:36:04 am EST

31156 - 307

Exterior Wall Replacement

Building 172, Naval Education and Training Center
Newport, Rhode Island

STRUCTURAL DETAILS

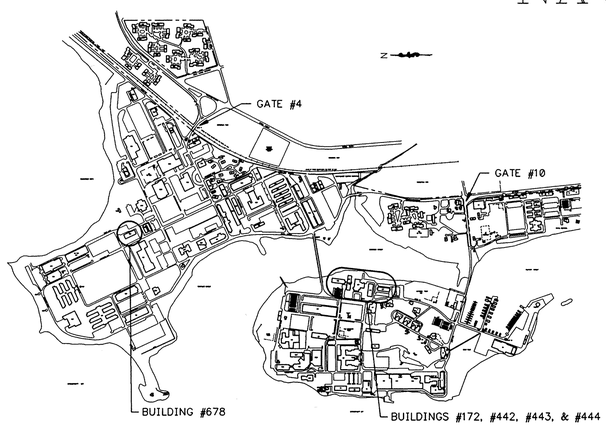
Tor Smolen Calini & Anastos, Consulting Engineers
424 Chapel Street PO Box 8306 New Haven, CT 06530 (203) 865-1174

AMES & WHITAKER Architects
21 Church Street Waterbury, Connecticut 06702 (203) 756-8944 Fax (203) 756-9949

PROJECT NO. 9614
DRAWN BY: SCP/DB
CHECKED BY: AC
SCALE: 3" = 1'-0"
DATE: 5-23-96
DRAWING NUMBER S2

REPLACEMENT OF PUMPS AND PUMP MOTORS

AT
FIVE NETC BOQ BUILDINGS
FOR
NAVAL EDUCATION AND TRAINING CENTER
NEWPORT, RHODE ISLAND



LOCATION MAP

SCALE: A 0 400 800 1200
GRAPHIC SCALE IN FEET

INDEX OF DRAWINGS

SHEET NO.	NETC DWG. NO.	N.A.V.F.A.C.	TITLE
1	31311-309	2171783	TITLE SHEET
2	31312-309	2171784	MECHANICAL ROOM PLAN – BUILDING #172
3	31313-309	2171785	MECHANICAL ROOM PLAN – BUILDING #442
4	31314-309	2171786	MECHANICAL ROOM PLAN – BUILDING #443
5	31315-309	2171787	MECHANICAL ROOM PLAN – BUILDING #444
6	31316-309	2171788	MECHANICAL ROOM PLAN – BUILDING #678
7	31317-309	2171789	ELECTRICAL WORK MECHANICAL ROOMS – BUILDINGS #172, #442, #443
8	31318-309	2171790	ELECTRICAL WORK MECHANICAL ROOMS – BUILDINGS #678, #444

VICINITY MAP

ABBREVIATIONS

DWG.	DRAWING
TYP.	TYPICAL
EA.	EACH
GPM	GALLONS PER MINUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
HP.	HORSEPOWER
W/	WITH
O.C.	ON CENTER
CLG.	CEILING
EXIST.	EXISTING

SYMBOLS

- GATE VALVE
- GLOBE VALVE
- CHECK VALVE
- CONTROL VALVE
- D — DRAIN PIPING
- PUMPED CONDENSATE RETURN
- V — VENT PIPING
- PIPE DROP
- PIPE RISE
- PIPE DROP FROM TEE
- UNION
- EXISTING PIPING
- NEW PIPING
- EQUIPMENT TO BE REMOVED
- GATE VALVE ON RISE
- P & F — PITCH & FLOW OF PIPING
- POINT OF CONNECTION. NEW TO EXISTING
- LIMIT OF DEMOLITION
- HWS — HOT WATER SUPPLY PIPING
- HWR — HOT WATER RETURN PIPING
- DOMESTIC HOT WATER RECIRCULATING PIPING
- STRAINER
- THERMOSTAT
- PRESSURE GAUGE
- SHEET WHERE DETAIL IS TAKEN — 1 — DETAIL NUMBER; 1 — SHEET WHERE DETAIL IS SHOWN

QUAD THREE GROUP INC.
37 N. WASHINGTON STREET, WILKES-BARRE, PA 18701

5557T1

SYMBOL	DESCRIPTION	DATE	BY WHOM
	AS BUILT 11-15-96	5.12.96	MD

REVISIONS

DSGN.
DR.
BR. HD. R. Carlo P.E.
DIV. HD. R. Gabriel P.E.
APPROVED Jeffrey 7-4-95
DATE

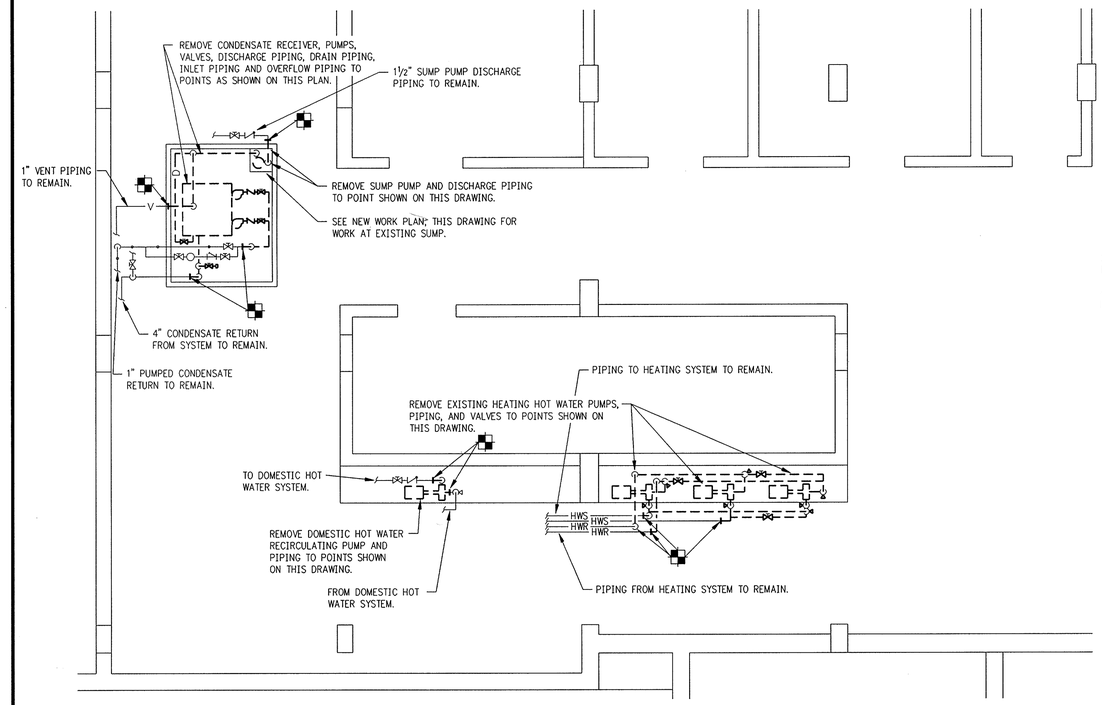
Wm. J. Gibson Jr.
SATISFACTORY TO
DATE 2-14-95

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL EDUCATION AND TRAINING CENTER
NEWPORT, R.I.

REPLACEMENT OF PUMPS AND PUMP MOTORS
AT
FIVE NETC BOQ BUILDINGS

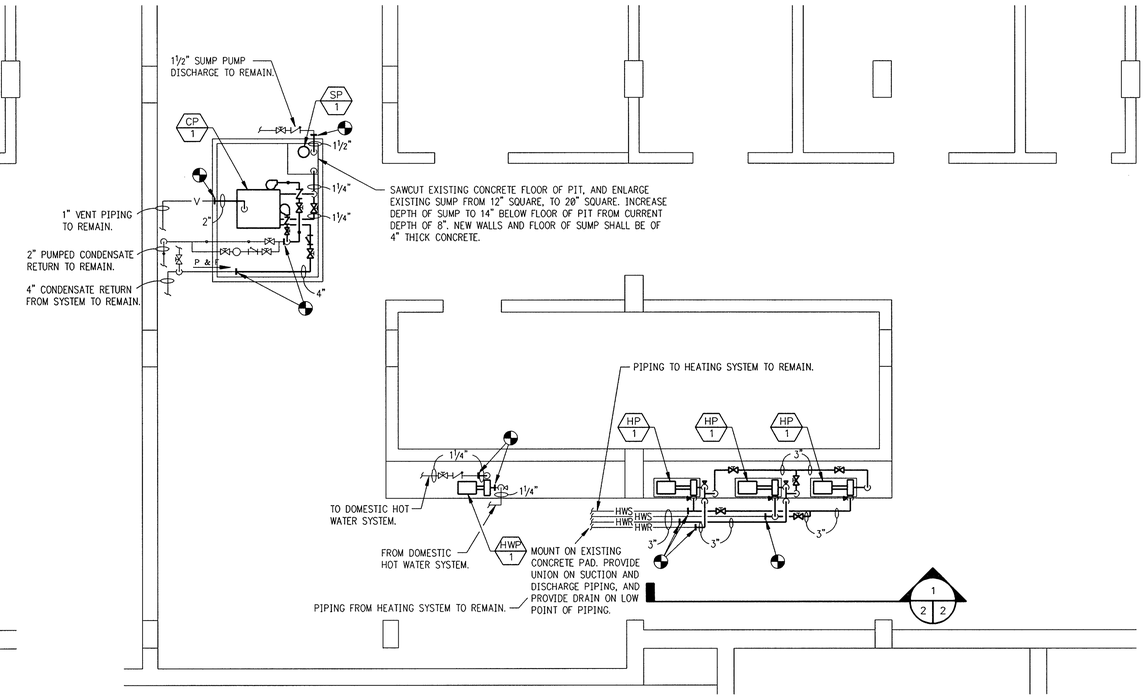
TITLE SHEET

CODE I.D. NO. 80091
DRAWING SIZE: D
SCALE: AS NOTED
CONST. CONTRACT NO. N62472-95-C-2200
SPEC. NO. 95-C-2200
NAVFAC DRAWING NO. 2171783
N.E.T.C. DRAWING NO. 31311-309
SHEET 1 OF 8



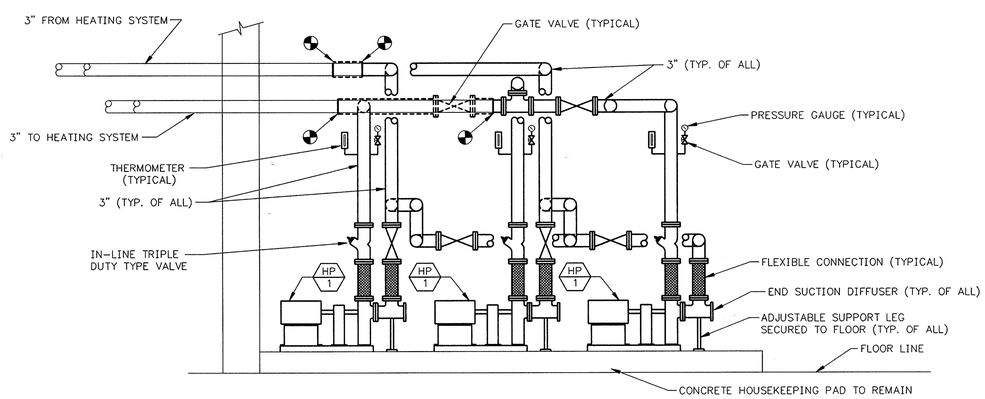
BUILDING #172 MECHANICAL ROOM PLAN – DEMOLITION

SCALE: ¼"=1'-0"



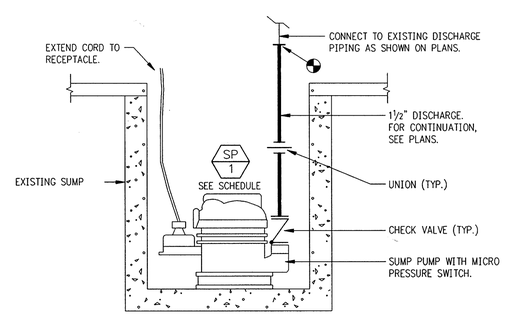
BUILDING #172 MECHANICAL ROOM PLAN – NEW WORK

SCALE: ¼"=1'-0"



1/2 SECTION AT HEATING H.W. PUMPS-BLDG #172

SCALE: ½"=1'-0"



2/2 SUMP PUMP DETAIL

NO SCALE

SCALE: ¼"=1'-0"

0' 2' 6' 12' 18'

GRAPHIC SCALE

CHECK GRAPHIC SCALE BEFORE USING

ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE.

5557M1

QUAD THREE GROUP INC.
37 N. WASHINGTON STREET, WILKES-BARRE, PA 18701

SYMBOL	DESCRIPTION	DATE	BY WHOM
	AS-BUILT 11-15-96	5-12-98	MD

REVISIONS

DSGN.
DR.
BR. HD.
DIV. HD.
APPROVED
DATE

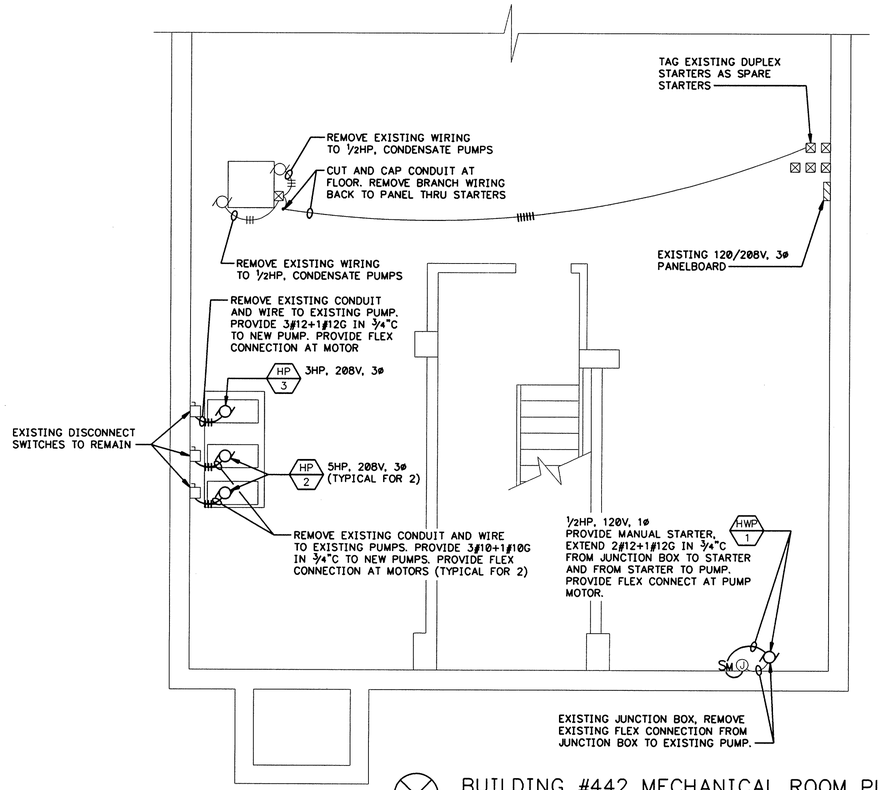
SATISFACTORY TO
DATE 9-19-95

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL EDUCATION AND TRAINING CENTER
NEWPORT, R.I.

REPLACEMENT OF PUMPS AND PUMP MOTORS
AT
FIVE NETC BOQ BUILDINGS

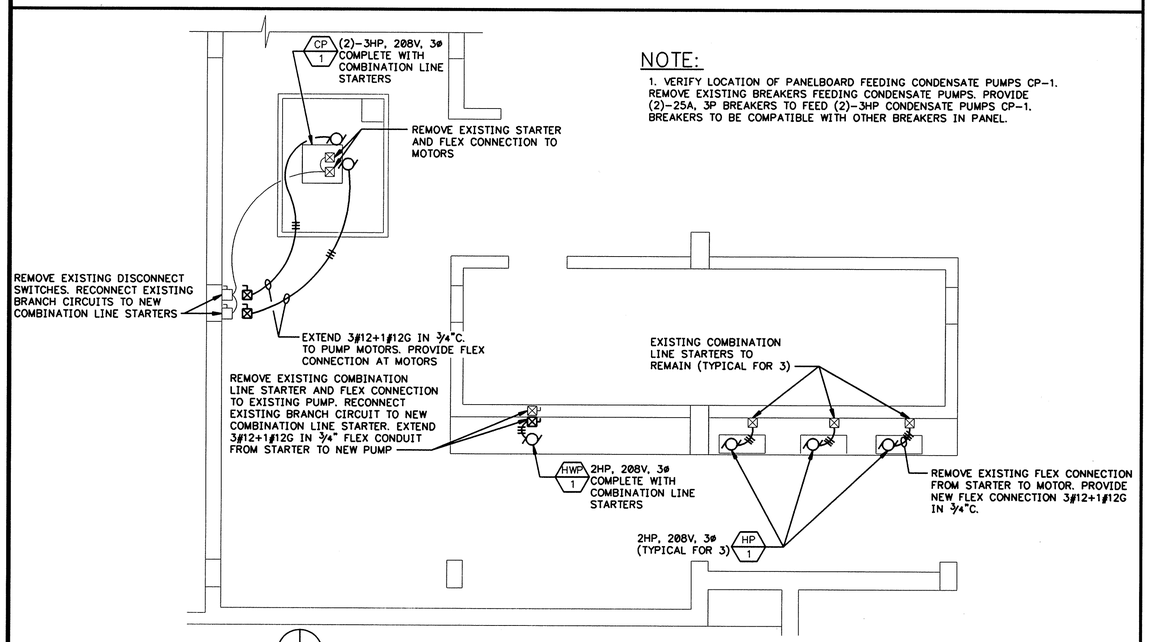
MECHANICAL ROOM PLAN – BUILDING #172

CODE I.D. NO.	80091
DRAWING SIZE:	D
SCALE:	¼"=1'-0"
CONST. CONTRACT NO.	N62472-95-C-2200
SPEC. NO.	95-C-2200
NAVFAC DRAWING NO.	2171784
N.E.T.C. DRAWING NO.	31312-309
SHEET	2 OF 8



BUILDING #442 MECHANICAL ROOM PLAN

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



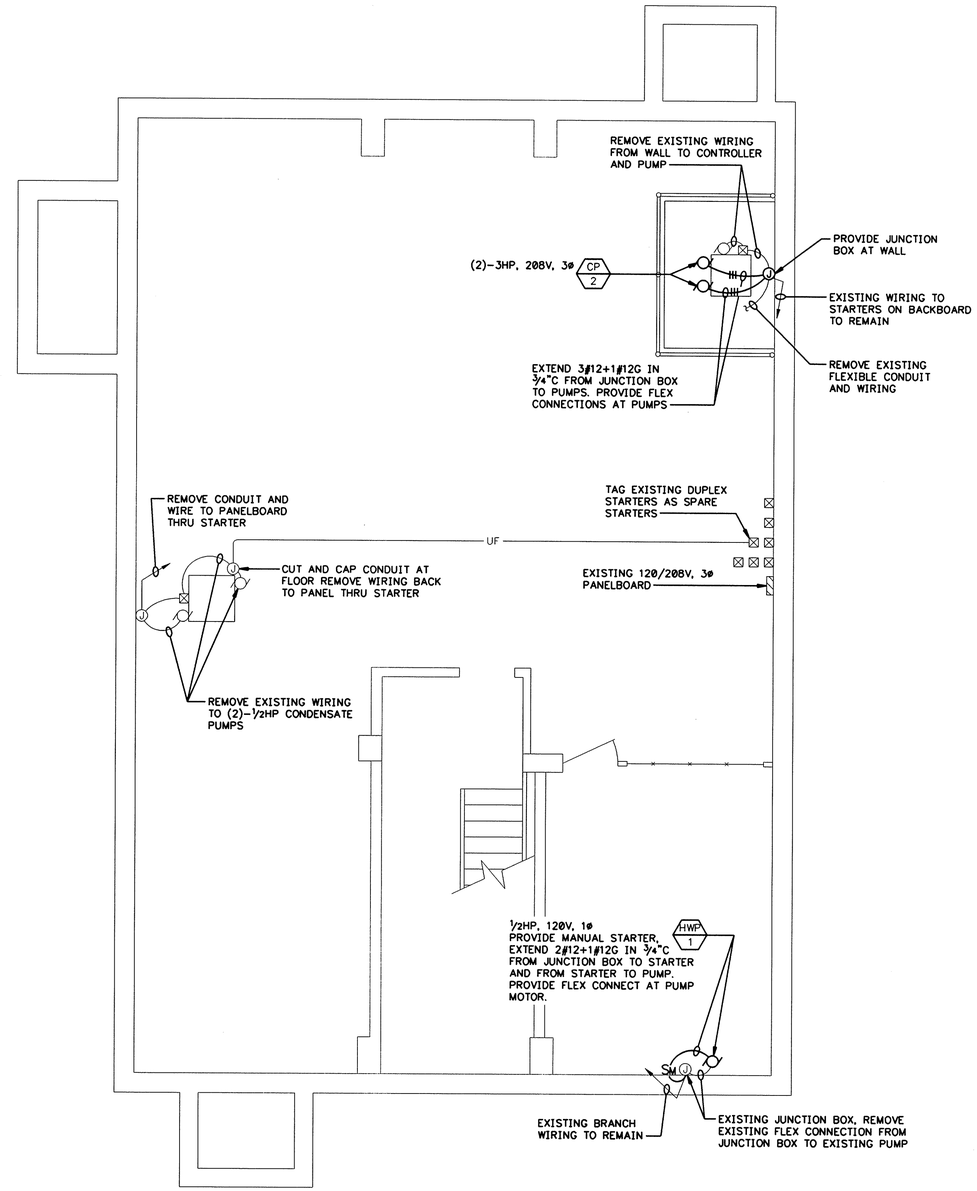
NOTE:

1. VERIFY LOCATION OF PANELBOARD FEEDING CONDENSATE PUMPS CP-1. REMOVE EXISTING BREAKERS FEEDING CONDENSATE PUMPS. PROVIDE (2)-25A, 3P BREAKERS TO FEED (2)-3HP CONDENSATE PUMPS CP-1. BREAKERS TO BE COMPATIBLE WITH OTHER BREAKERS IN PANEL.

BUILDING #172 MECHANICAL ROOM PLAN

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

5557E1



BUILDING #443 MECHANICAL ROOM PLAN

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

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

0' 2' 6' 12' 18'

GRAPHIC SCALE

CHECK GRAPHIC SCALE BEFORE USING

ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE.

QUAD THREE GROUP INC.
37 N. WASHINGTON STREET, WILKES-BARRE, PA 18701

SYMBOL	DESCRIPTION	DATE	BY WHOM
	AS BUILT 11-15-96	5-15-96	MD

REVISIONS

DSGN.
DR.
BR. HD.
DIV. HD.
APPROVED
DATE

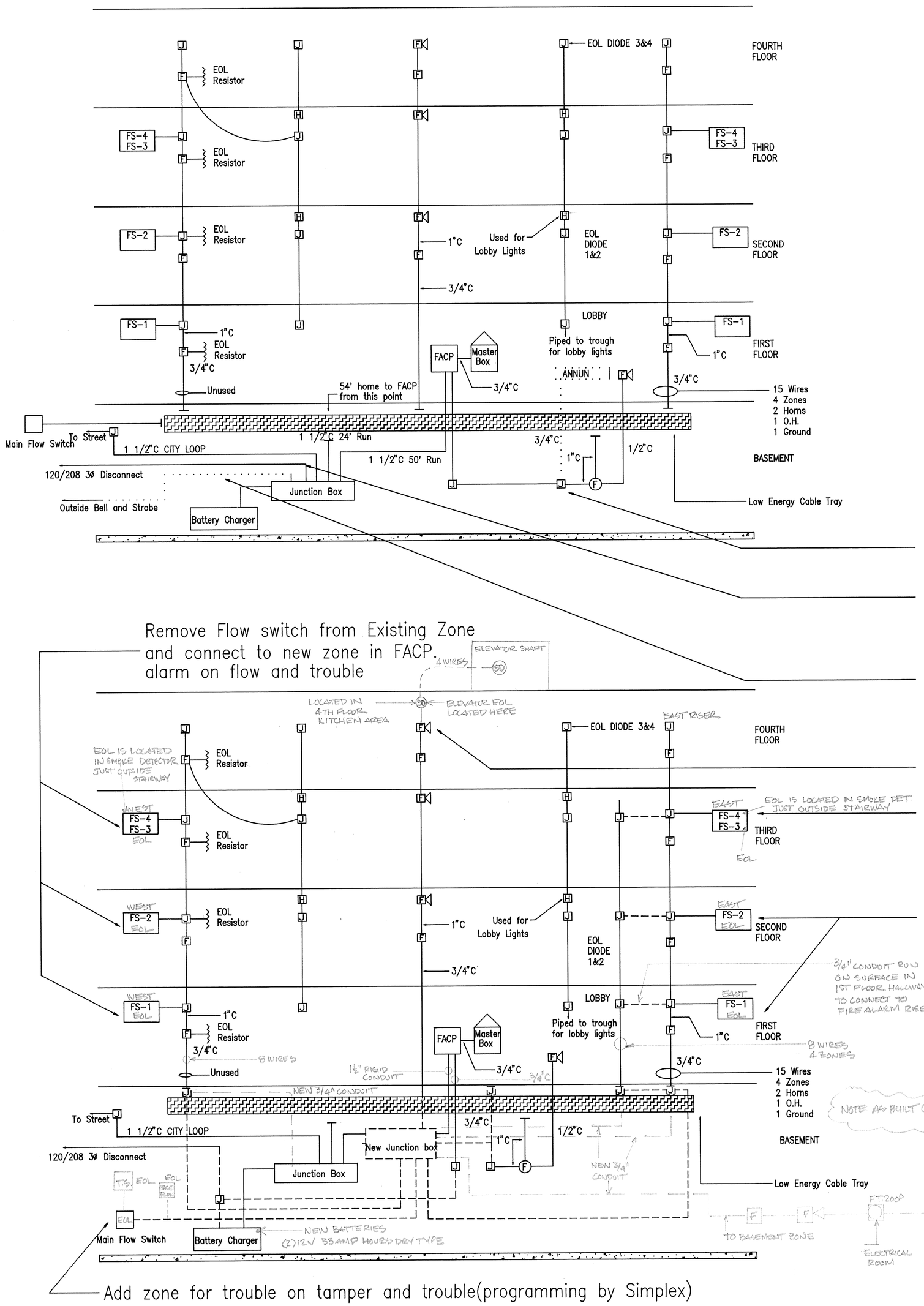
SATISFACTORY TO
DATE 9-14-95

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL EDUCATION AND TRAINING CENTER
NEWPORT, R.I.

REPLACEMENT OF PUMPS AND PUMP MOTORS
AT
FIVE NETC BOQ BUILDINGS
ELECTRICAL WORK
MECHANICAL ROOMS - BUILDINGS #172, #442, #443

CODE I.D. NO.	80091
DRAWING SIZE:	D
SCALE:	1/4"=1'-0"
CONST. CONTRACT NO.	N62472-95-C-2200
SPEC. NO.	95-C-2200
NAVFAC DRAWING NO.	2171789
N.E.T.C. DRAWING NO.	31317-309
SHEET	7 OF 8

REVISION				
SYM	ZONE	DESCRIPTION	DATE	APPROVED
1		AS BUILT 3-7-97	3-3-98	MD



General Notes

1.) Remove and rewire circuits as shown
2.) Exact Location of conduit and junction boxes is at the contractors discretion.
3.) All Fire alarms wires must be removed from low voltage cable tray.
4.) Wire size for Zones shall be #14 AWG THHN solid copper
5.) Install Five zone cards provided by Government and connect as shown.
6.) Contractor is responsible for having the system tested by Simplex, and ensuring all zones work in accordance with the manufacturers instructions.
7.) Contractor is responsible for matching all finishes in the area of work

Remove remote panel and wiring back to FACP

Intercept Conduit, Provide Junction Box and feed charger and FACP with sEparate conduit and wire. 3/4" conduit with #12AWG THHN

Remove Outside bell, strobe and wiring back to FACP

Remove Elevator shaft Smoke detector from 4th Floor Zone and connect to new Zone

For each Flow switch, FS3 and FS4 Remove flow switch from Existing Zone and Wire to New Zone card in FACP, Each Flow switch shall alarm on flow and trouble

For each Flow switch, FS1 and FS2 Remove flow switch from Existing Zone and Wire to New Zone card in FACP, Each Flow switch shall alarm on flow and trouble

Remove Conduit and wire

Provide Conduit and rewire

End Of line Resistors

Signal Circuits

1. 2nd Floor East Corridor 4" Square box
2. 4th Floor East Corridor 4" Square box

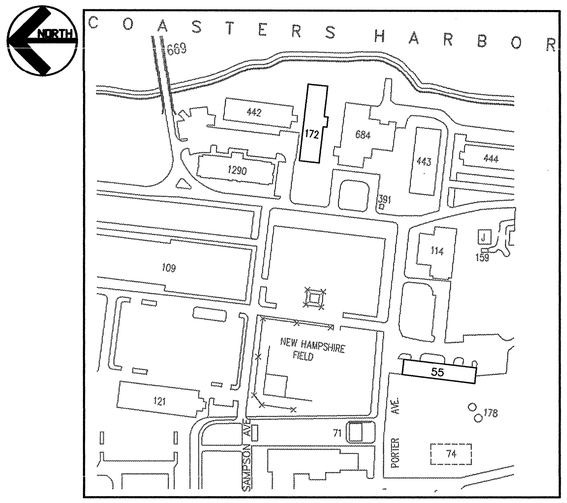
Detector Zones

BASEMENT – IN F/A PANEL
1ST FLR West Corridor 4" Sq Box
2ND FLR West Corridor 4" Sq box
3RD FLR West Corridor 4" Sq box
4TH FLR West Stairwell, 3RD FLR

End Of Line Resistor
F Pull Station
J Junction Box
F Horn
H Old Horn
F Fixed Heat Detector

NETC DWG. NO. 32022-315	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVAL EDUCATION AND TRAINING CENTER NEWPORT, RHODE ISLAND
DSGN. D. PILKINGTON	
DR. D. PILKINGTON	FIRE ALARM SYSTEM RISER DIAGRAM Building 172 Coasters Harbor Island
BR. [signature], PE 2/3/97	
DIR. [signature], RA 2/3/97	
APPROVED DATE	
SATISFACTORY TO V.P. Clarke	SIZE F · CODE IDENT NO. 80091 · NAVFAC DRAWING NO. 2184761
DATE 2/3/97	CONSTR. CONTR. NO. N62472-97-M-6922
SCALE: AS NOTED	SPEC. 04-97-6922 · SHEET 1 OF 1

FIRING RANGE LIGHTING IMPROVEMENTS AT BUILDING 440CP
ELEVATOR CONTROLS UPGRADE AT BUILDING 172CHI
BASE DISASTER SIREN MODIFICATION AT BUILDINGS K61CP, 440CP, 55CHI, 1CC
AT THE NAVAL COMPLEX NEWPORT, RI.



BUILDINGS: 55CHI, 172CHI
LOCATION: COASTERS HARBOR ISLAND

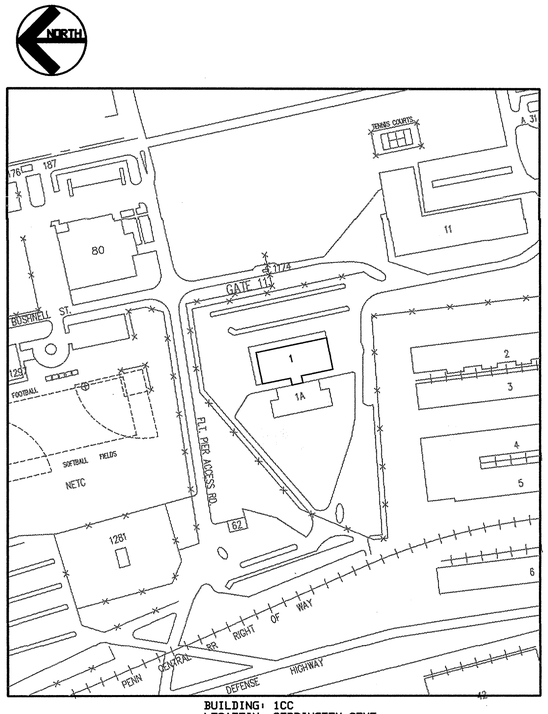
LOCATION MAP #1

0 400 1200
GRAPHIC SCALE IN FEET
SCALE 1" = 200'

BUILDINGS: K61CP, 440CP
LOCATION: CODDINGTON POINT

LOCATION MAP #2

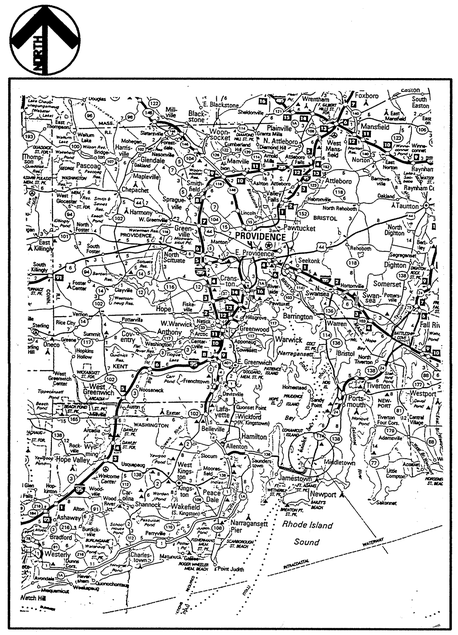
0 400 1200
GRAPHIC SCALE IN FEET
SCALE 1" = 200'



BUILDING: 1CC
LOCATOIN: CODDINGTON COVE

LOCATION MAP #3

0 400 1200
GRAPHIC SCALE IN FEET
SCALE 1" = 200'



VICINITY MAP

SCALE 1" = APPROX 7 MILES

DRAWING INDEX			
SHEET #	NAVFAC DWG #	NETC DWG #	TITLE
E-0	2184856	32117-316	TITLE SHEET
E-1	2184857	32118-316	FIRING RANGE BLDG 440CP, FLOOR PLAN LIGHTING RETROFIT
E-2	2184858	32119-316	LIGHTING FIXTURE DETAIL SHEET PARTIAL FLOOR PLANS BLDG 172 - ELEEVATOR UPGRADE
E-3	2184859	32120-316	SIREN CONTROL SCHEMATIC DIAGRAM
A-1	2184860	32121-316	ELEVATOR DOOR TRIM, ELEVATOR CAB DETAILS, ACCESS PLATFORM DETAILS.

SYMBOL	DESCRIPTION	DATE	APP'VD
	REVISIONS		

DSGN.
DR.
BR. HD.
DIV. HD.
APPROVED
DATE

JOHN MICHAEL CALLAHAN
No. 6548
REGISTERED PROFESSIONAL ENGINEER ELECTRICAL

APPLIED THERMODYNAMICS ASSOCIATES, INC.
CONSULTING ENGINEERS
860-742-5377
1129 MAIN STREET COVENTRY, CT 06238

NAVAL FACILITIES ENGINEERING COMMAND
NAVAL EDUCATION AND TRAINING CENTER
DEPARTMENT OF THE NAVY
NEWPORT, R.I.

FIRING RANGE LIGHTING IMPROVEMENTS, ELEVATOR CONTROLS UPGRADE, BASE DISASTER ALARM MODIFICATIONS AT NAVAL COMPLEX, NEWPORT,RI

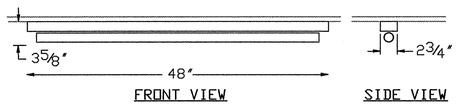
CODE ID. NO. 80091
DRAWING SIZE D
SCALE: NONE
CONST. CONTRACT NO. N62472-97-M-6912
SPEC. 04-97-6912
NAVFAC DRAWING NO. 2184856
N.E.T.C. DRAWING NO. 32117-316
SHEET E0 OF 4

ATA REF: C:\9706\9706E0 04/17/97 10:55

225 AMP MAIN BUS BAR — SCHEDULE FOR PANEL D — 22,000 AIC RATING — 480/277 VOLTS, 3ø, 4 WIRE

CKT	DESCRIPTION	VA	VOLTS	PH	WIRE	CONDUIT	DISC.	STARTER	CONT.	ENCLOS.	AMPS	POLES	REMARKS
1	RANGE 1 LIGHTING	1,755	277	1	#12 AWG	3/4" IMC					20	1	EXISTING CIRCUIT TO REMAIN
2	RANGE 1 LIGHTING	2,535	277	1	#12 AWG	3/4" IMC					20	1	
3	RANGE 2 LIGHTING	1,475	277	1	#12 AWG	3/4" IMC					20	1	EXISTING CIRCUIT TO REMAIN
4	RANGE 2 LIGHTING	2,275	277	1	#12 AWG	3/4" IMC					20	1	
5	ETR												
6	ETR												
7	ETR												
8	ETR												
9	ETR												
10	ETR												
11	ETR												
12	ETR												
13	ETR												
14	ETR												

NOTE: NEW C/B'S FOR CKTS 2 & 4 SHALL HAVE 10,000 AIC RATING

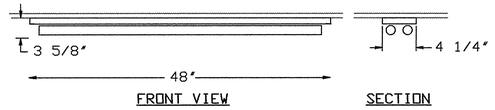


MOUNTING: SURFACE
LENS: NONE
LAMP: T8 F032 41 DEG. K
BALLAST: ELECTRONIC

LIGHTING FIXTURE TYPE A

SCALE: 1" = 1'-0"

ATA REF: C:\9706\NAVYX1 04/17/97 12:47

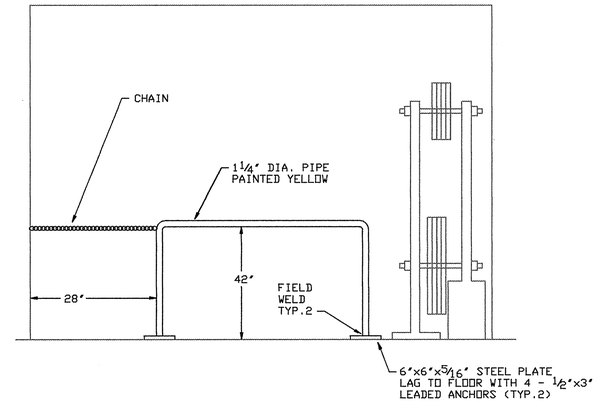


MOUNTING: SURFACE
LENS: NONE
LAMP: T8 F032 41 DEG. K
BALLAST: ELECTRONIC

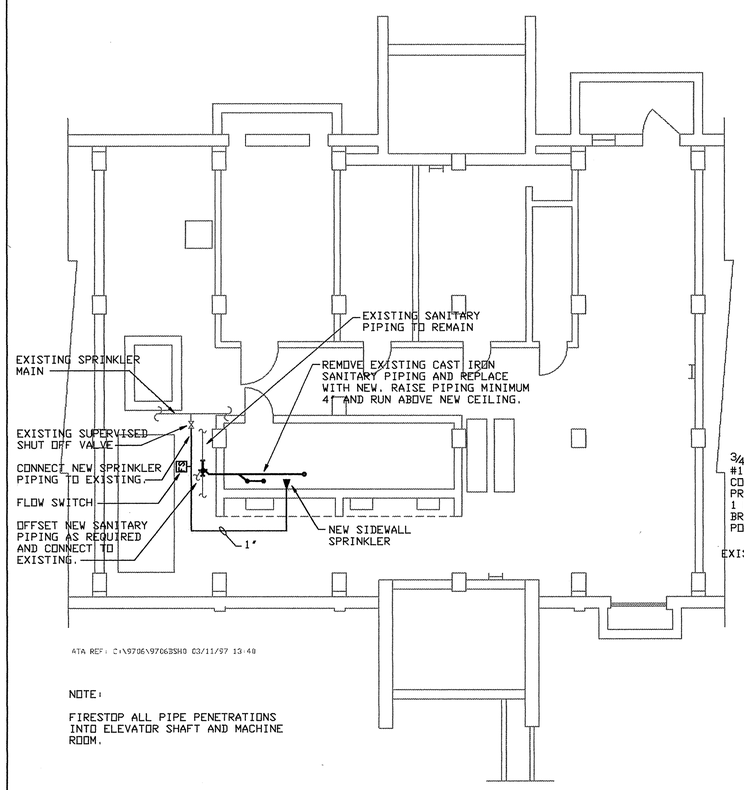
LIGHTING FIXTURE TYPE B

SCALE: 1" = 1'-0"

ATA REF: C:\9706\NAVYX2 04/17/97 12:48



1 / E-2 PROTECTIVE RAIL DETAIL
NOT TO SCALE

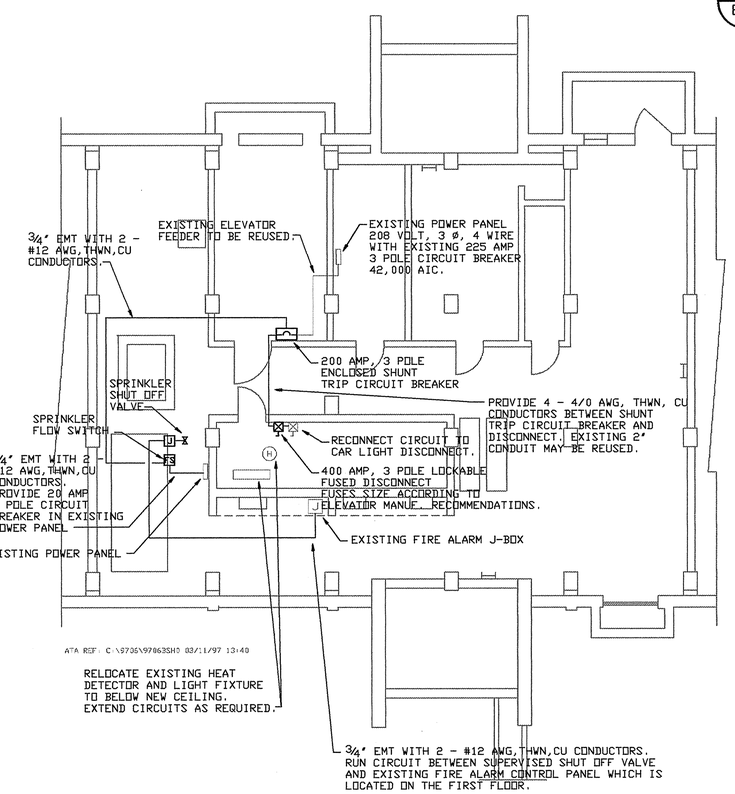


NOTE:

FIRESTOP ALL PIPE PENETRATIONS INTO ELEVATOR SHAFT AND MACHINE ROOM.

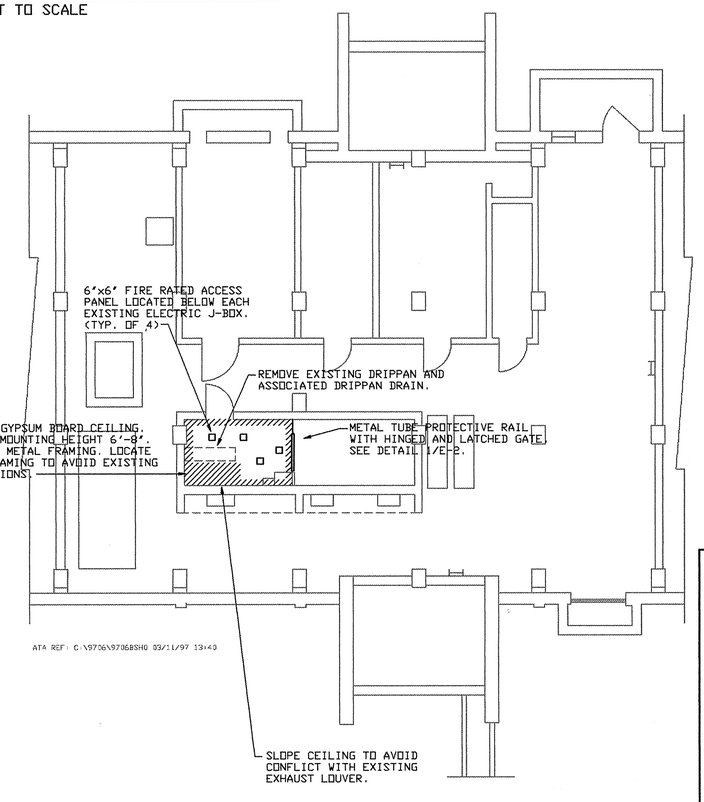
MECHANICAL MODIFICATIONS
BUILDING 172 PARTIAL BASEMENT PLAN

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



ELECTRICAL MODIFICATIONS
BUILDING 172 PARTIAL BASEMENT PLAN

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



ARCHITECTURAL MODIFICATIONS
BUILDING 172 PARTIAL BASEMENT PLAN

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

ATA REF: G:\9706\G:\9706\9706E2 06/18/97 14:03

SYMBOL	DESCRIPTION	DATE	APP'VD
	REVISIONS		

DSGN.
DR.
BR. HD.
DIV. GD.
APPROVED
DATE

SATISFACTORY TO
DATE

JOHN MICHAEL CALLAHAN
No. 6548
REGISTERED PROFESSIONAL ENGINEER ELECTRICAL

APPLIED THERMODYNAMICS ASSOCIATES, INC.
CONSULTING ENGINEERS
1129 MAIN STREET
860-742-5377
COVENTRY, CT 06238

DEPARTMENT OF THE NAVY
NAVAL EDUCATION AND TRAINING CENTER
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

FIRING RANGE LIGHTING IMPROVEMENTS, ELEVATOR CONTROLS UPGRADE, BASE DISASTER ALARM MODIFICATIONS AT NAVAL COMPLEX, NEWPORT, RI

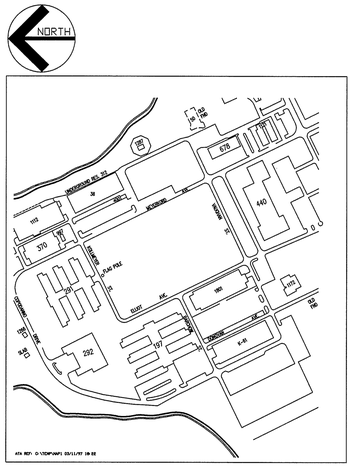
CODE ID. NO. 80091
DRAWING SIZE D
SCALE: NONE
CONST. CONTRACT NO. N62472-97-M-6912
SPEC. 04-97-6912
NAVFAC DRAWING NO. 2184858
N.E.T.C. DRAWING NO. 32119-316
SHEET E2 OF 4

FILE NOT FOUND

HEATING SYSTEM REPAIRS
VARIOUS LOCATIONS
AT THE NAVAL COMPLEX
NEWPORT, RI.

GENERAL NOTES:

1. BEFORE ANY WORK STARTS, THE CONTRACTOR SHALL ENSURE THAT ALL PIPING AND EQUIPMENT ARE DRAINED AND COOLED DOWN TO ENSURE PERSONNEL SAFETY. THIS WORK SHALL BE COORDINATED WITH BUILDING PERSONNEL AND BASE MAINTENANCE PERSONNEL.

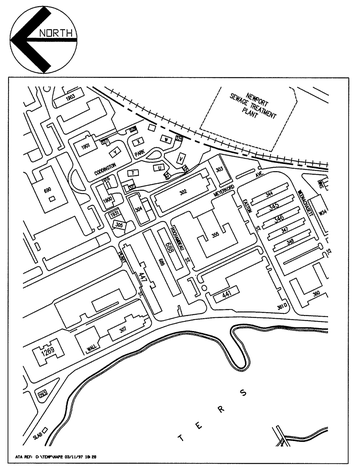


BUILDING: 678
LOCATION: CODDINGTON POINT

LOCATION MAP #1

0 400 800 1200

GRAPHIC SCALE IN FEET
SCALE 1" = 400'

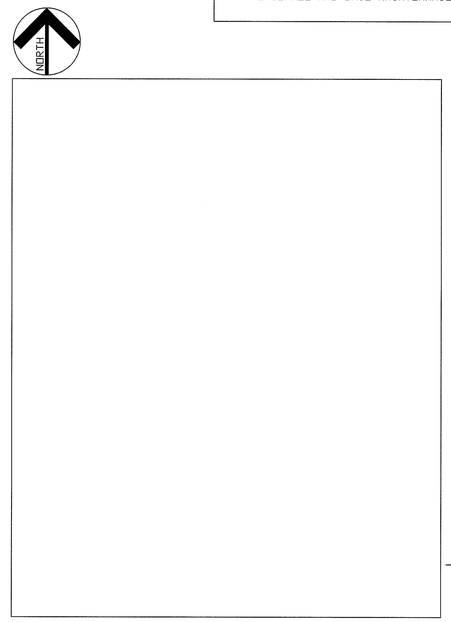


BUILDINGS: 688, 441
LOCATION: CODDINGTON POINT

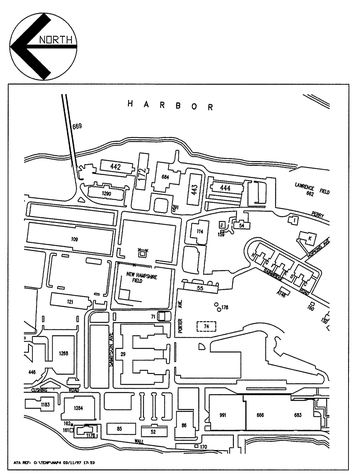
LOCATION MAP #2

0 400 800 1200

GRAPHIC SCALE IN FEET
SCALE 1" = 400'



VICINITY MAP
SCALE 1" = APPROX 7 MILES



BUILDINGS: 442, 172, 443, 444
LOCATION: COASTERS HARBOR ISLAND

LOCATION MAP #4

0 400 800 1200

GRAPHIC SCALE IN FEET
SCALE 1" = 400'

DRAWING INDEX

SHEET #	NAVFAC DWG #	NETC DWG #	TITLE
M-1	2196437	32369-318	TITLE SHEET
M-2	2196438	32370-318	BUILDINGS: 678 CP AND 443 CHI MECHANICAL DEMOLITION AND WORK PLANS
M-3	2196439	32371-318	BUILDINGS: 442 CHI AND 444 CHI MECHANICAL DEMOLITION AND WORK PLANS
M-4	2196440	32372-318	BUILDINGS: 172 CHI AND 441 CP MECHANICAL DEMOLITION AND WORK PLANS
M-5	2196441	32373-318	BUILDING: 688 CP MECHANICAL DEMOLITION AND WORK PLANS, SCHEDULES AND SYMBOL TABLE

APPLIED THERMODYNAMICS ASSOCIATES, INC.
CONSULTING ENGINEERS
1129 MAIN STREET COVENTRY, CT 06238
860-742-5377

DEPARTMENT OF THE NAVY
NAVAL EDUCATION AND TRAINING CENTER
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R. I.

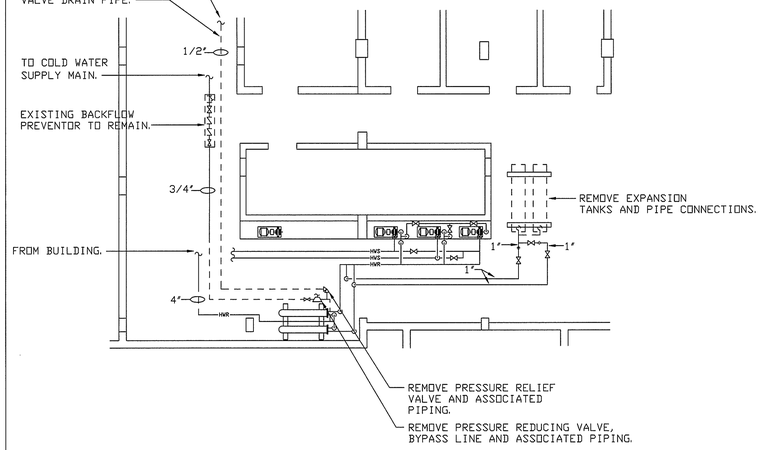
HEATING SYSTEM REPAIRS
VARIOUS LOCATIONS AT THE
NAVAL COMPLEX, NEWPORT, RI

SYMBOL	DESCRIPTION	DATE	APP'VD
	REVISIONS		

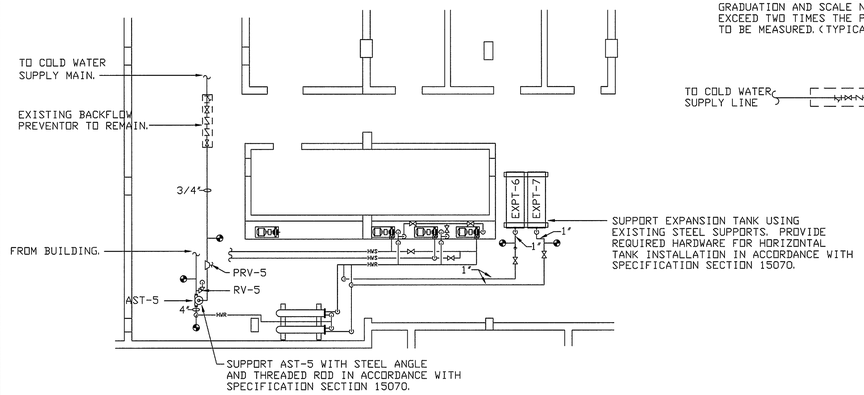
DSGN.
DR.
BR. HD.
DIV. HD.
APPROVED
DATE

SATISFACTORY TO DATE

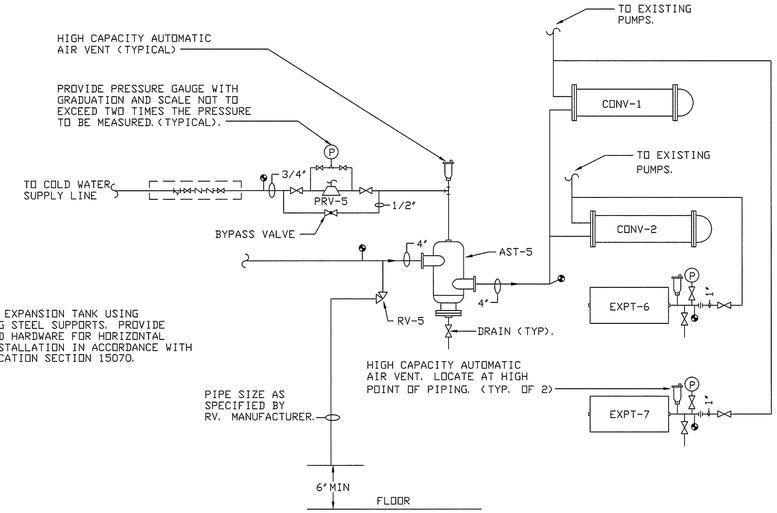
CODE ID. NO. 80091
DRAWING SIZE D
SCALE: AS NOTED
CONST. CONTRACT NO. N62472-98-M-6948
SPEC. 07-98-6948
NAVFAC DRAWING NO. 2196437
N.E.T.C. DRAWING NO. 32369-318
SHEET M1 OF M5



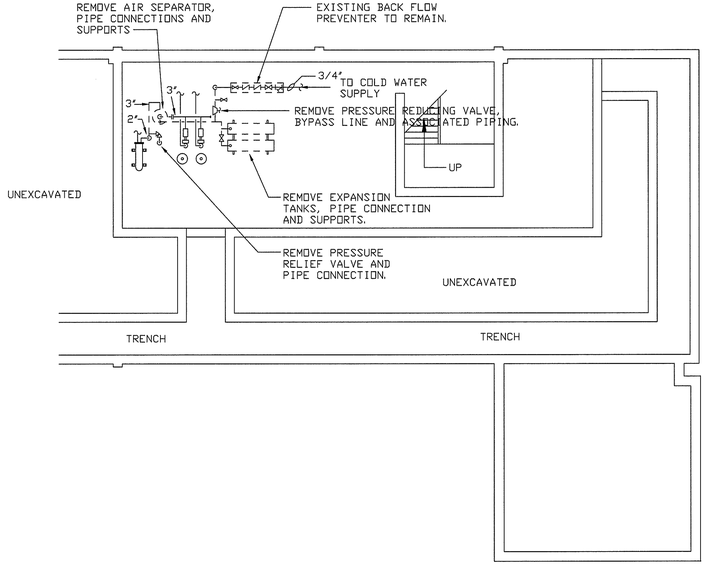
BUILDING 172 CHI
MECHANICAL ROOM DEMOLITION PLAN
1/8" = 1' -00"



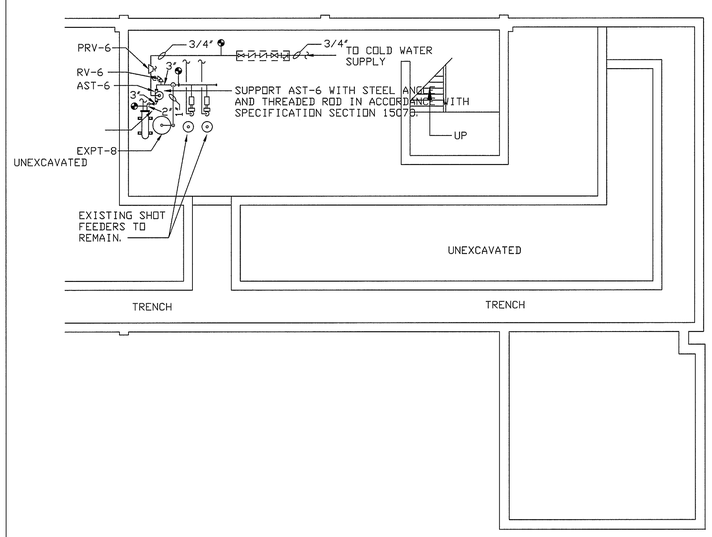
BUILDING 172 CHI
MECHANICAL ROOM WORK PLAN
1/8" = 1' -00"



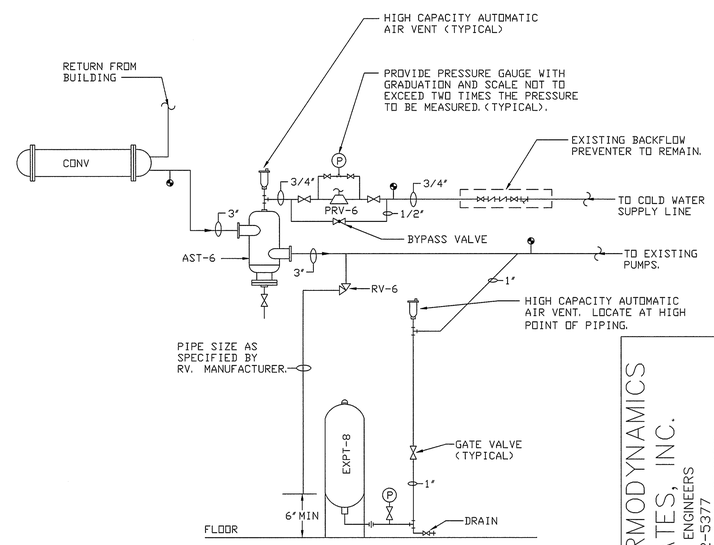
BUILDING 172 CHI
HYDRONIC PIPING SCHEMATIC
NTS



BUILDING 441 CP
MECHANICAL ROOM DEMOLITION PLAN
1/8" = 1' -00"



BUILDING 441 CP
MECHANICAL ROOM WORK PLAN
1/8" = 1' -00"



BUILDING 441 CP
HYDRONIC PIPING SCHEMATIC
NTS

SCALE IN FEET
8 0 8 16

SYMBOL	DESCRIPTION	DATE	APP'VD
	REVISIONS		

DSGN.
DR.
BR. HD.
DIV. HD.
APPROVED
DATE

SATISFACTORY TO DATE

APPLIED THERMODYNAMICS ASSOCIATES, INC.
CONSULTING ENGINEERS
860-742-5377
1129 MAIN STREET COVENTRY, CT 06238

DEPARTMENT OF THE NAVY
NAVAL EDUCATION AND TRAINING CENTER
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

HEATING SYSTEM REPAIRS
VARIOUS LOCATIONS AT THE
NAVAL COMPLEX, NEWPORT, RI

CODE ID. NO. 80091
DRAWING SIZE D
SCALE: AS NOTED
CONST. CONTRACT NO.
N62472-98-M-6948
SPEC. 07-98-6948
NAVFAC DRAWING NO.
2196440
N. E. T. C. DRAWING NO.
32372-318
SHEET M4 OF M5

REPAIR ELECTRICAL ELEVATOR IN BACHELOR OFFICER'S QUARTERS BUILDING 172 CHI NAVAL COMPLEX NEWPORT, RHODE ISLAND

CONTRACT NO. N62472-01-C-6910

ENGINEERS

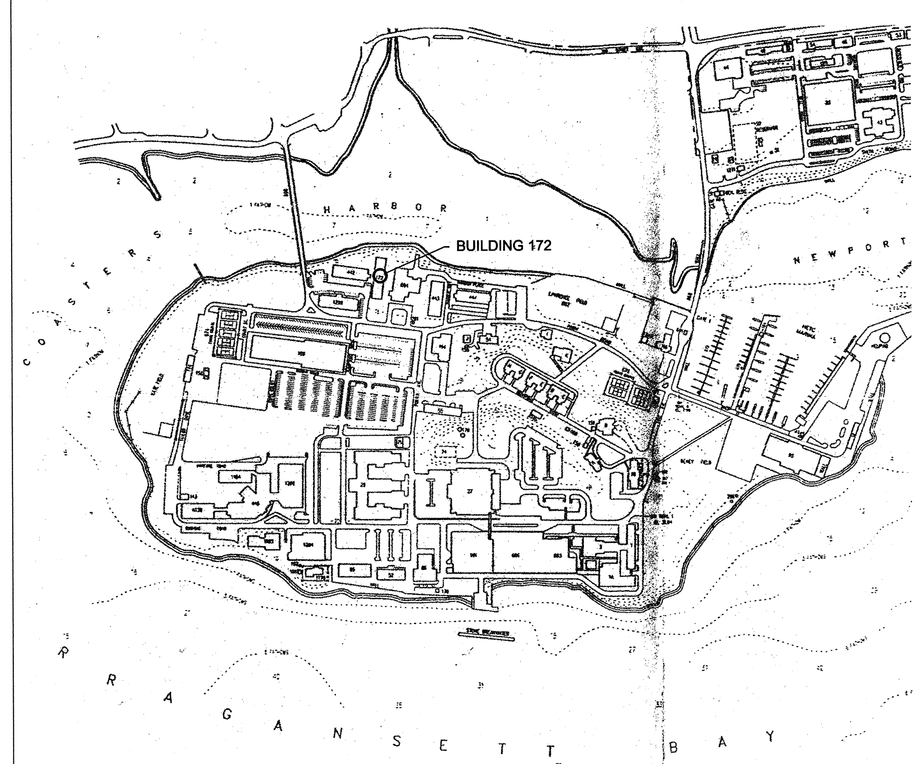
AEROSPACE SYSTEMS, INC. (ASI)
ENERGY SYSTEMS DIVISION
121 MIDDLESEX TURNPIKE
BURLINGTON, MA 01803

LIST OF DRAWINGS:

SHEET NO.	NAVFAC DRAWING NO.	NAVSTA DRAWING NO.	TITLE
1	2202-680	33969-332	TITLE SHEET
2	2202-681	33970-332	ELEVATOR DETAILS EL-1
3	2202-682	33971-332	ELECTRICAL BASEMENT AND FIRST FLOOR PLANS E-1
4	2202-683	33972-332	ELECTRICAL 2ND, 3RD, AND 4TH FLOORS AND ROOF PLANS E-2
5	2202-684	33973-332	ELECTRICAL DETAILS E-3
6	2202-685	33974-332	MECHANICAL PLANS M-1

SCHEDULING NOTES

1. WORK SHALL BE PERFORMED BETWEEN 1 OCTOBER AND 1 APRIL.
2. ELEVATOR SHALL NOT BE OUT OF SERVICE FOR LONGER THAN 90 DAYS.



LOCATION MAP
N.T.S.

REVISION	DATE	DESCRIPTION	BY

NAVSTA DWG. NO. 33969-332
NETC SK. NO.
DSGN JS/JZ
DR. R.L.
BR. John Aspen PE 5/15/02
DIR.
APPROVED DATE
J.J. Galuska, RA 6/5/02
SATISFACTORY TO
Paul E. Buitro
DATE 5/7/02

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

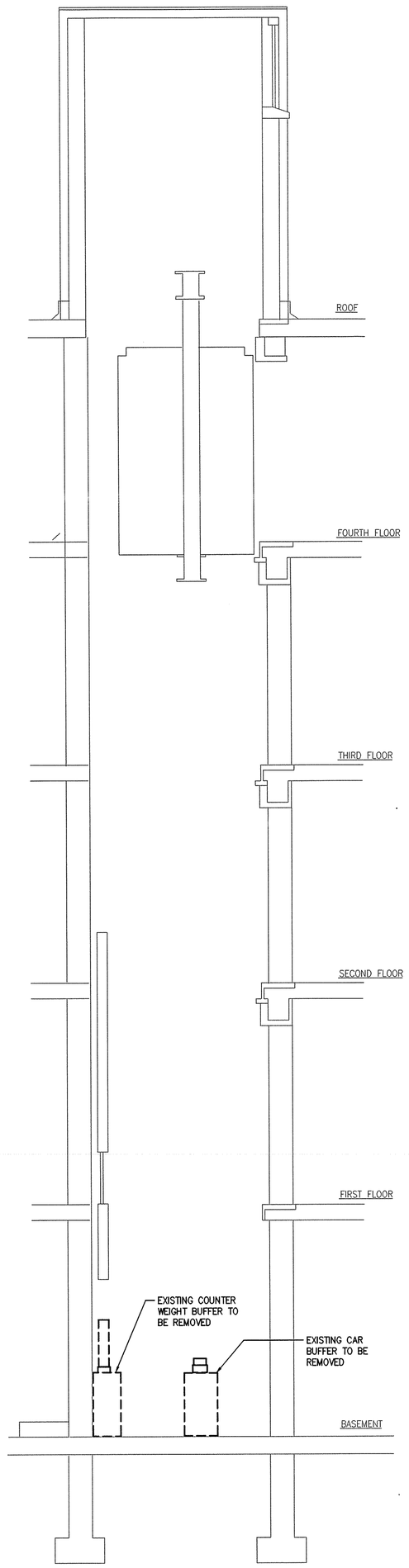
REPAIR ELECTRICAL ELEVATOR
IN BACHELOR OFFICER'S QUARTERS
BUILDING 172 CHI

TITLE SHEET

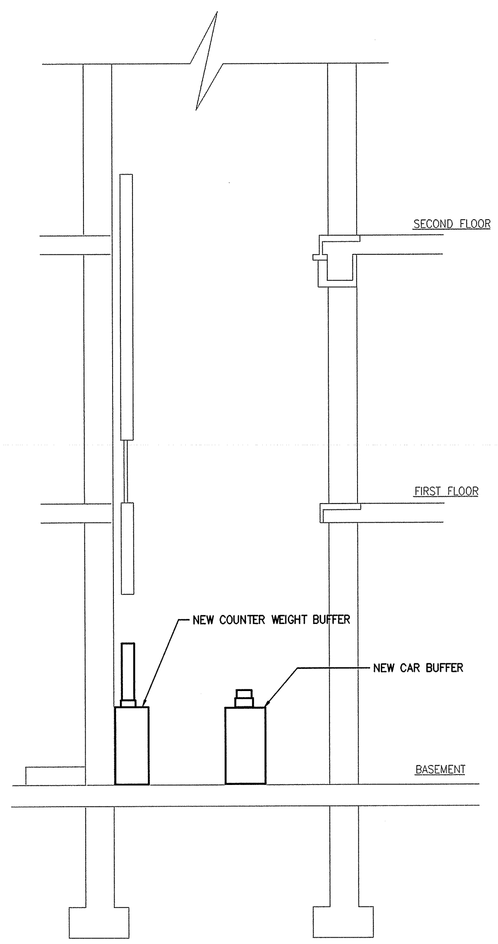
ASI AEROSPACE SYSTEMS, INC.
ENERGY SYSTEMS DIVISION
121 MIDDLESEX TURNPIKE, BURLINGTON, MA 01803
TELEPHONE (781)272-7517 FAX (781)272-7810

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.:
F	80091	2202-680
		CONSTR CONTR NO.: N62472-01-C-6910
SCALE: AS NOTED		SPEC. NO. 04-01-6910 SHEET 1

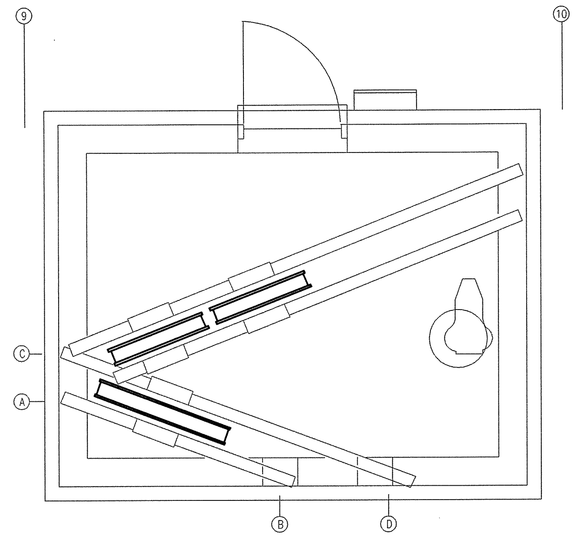
T-1



SECTION THRU SHAFT–DEMOLITION PLAN
SCALE: 1/4"=1'-0"

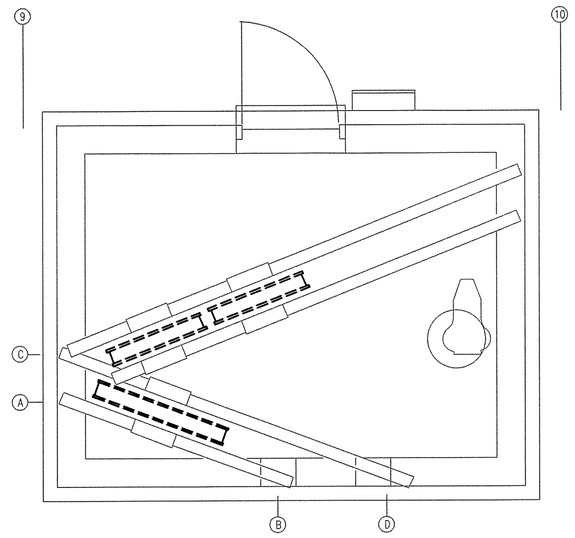


NEW PARTIAL SECTION THRU SHAFT
SCALE: 1/4"=1'-0"



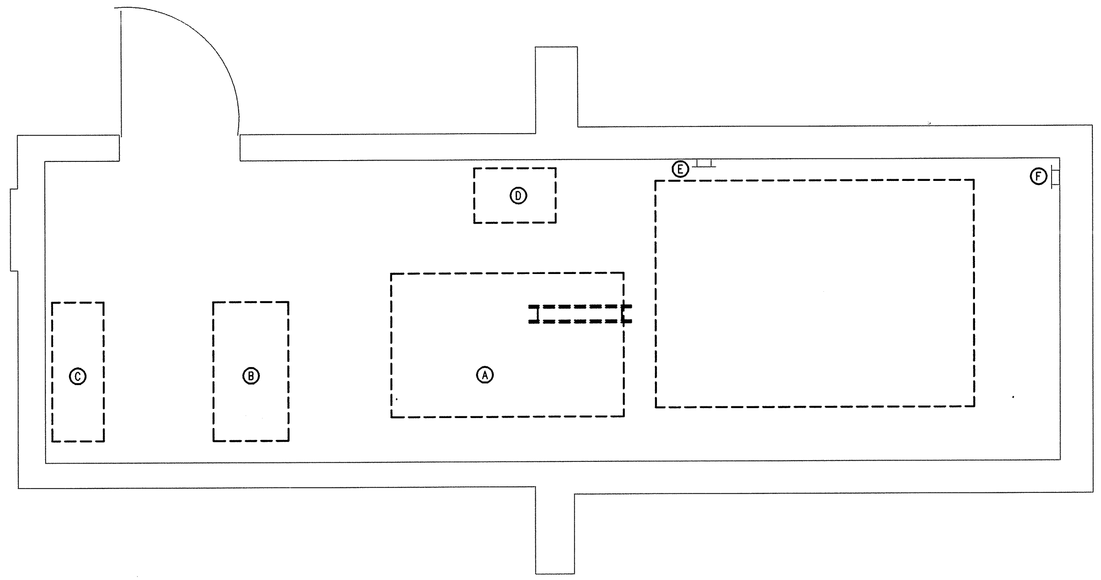
NOTE: PROVIDE NEW SHEAVES, SHAFTS, AND PILLOWBLOCKS.

NEW SHEAVE ROOM PLAN
SCALE: 1/2"=1'-0"



NOTE: EXISTING SHEAVES, SHAFTS, AND PILLOWBLOCKS TO BE REMOVED

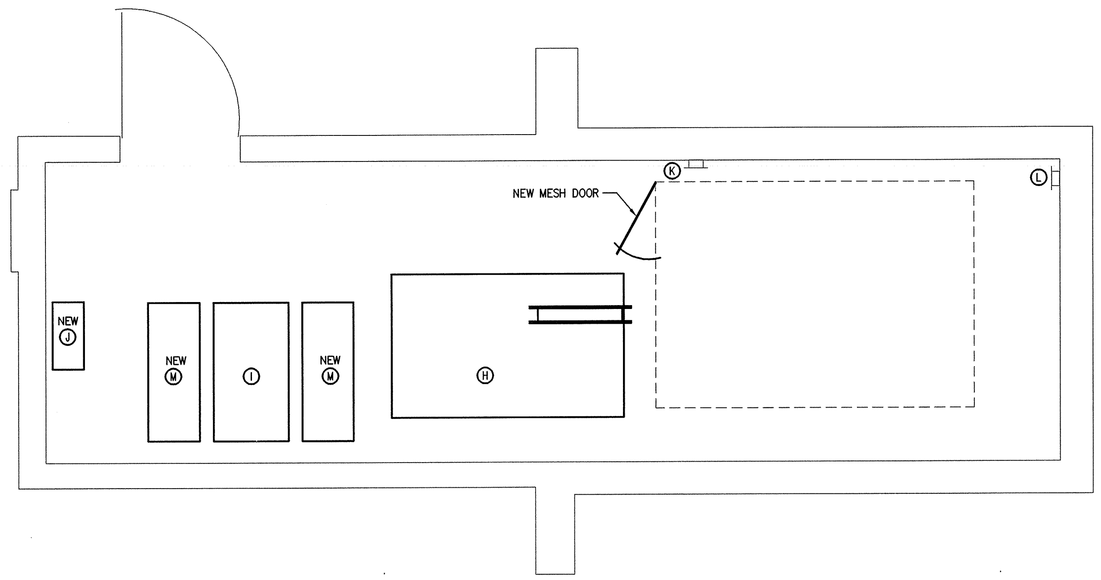
SHEAVE ROOM DEMOLITION PLAN
SCALE: 1/2"=1'-0"



MACHINE ROOM AND PIT DEMOLITION PLAN
SCALE: 1/2"=1'-0"

KEY NOTES:

- (A) EXISTING MACHINE, MOTOR, AND BRAKE TO BE REMOVED
- (B) EXISTING CONTROLLER TO BE REMOVED
- (C) REMOVE EXISTING MOTOR GEN. SET
- (D) REMOVE EXISTING SELECTOR
- (E) EXISTING 3 FT. PIT LADDER TO REMAIN
- (F) EXISTING 8 FT. PIT LADDER TO REMAIN



NEW MACHINE ROOM AND PIT
SCALE: 1/2"=1'-0"

KEY NOTES:

- (H) NEW MACHINE, MOTOR, AND BRAKE
- (I) NEW SOLID STATE ~~VFW~~ VF-VV CONTROL
- (J) NEW ISOLATION TRANSFORMER
- (K) EXISTING 3 FT. PIT LADDER TO REMAIN
- (L) EXISTING 8 FT. PIT LADDER TO REMAIN
- (M) NEW ANTI-STATIC FLOOR PAD

REVISION	DATE	DESCRIPTION	BY

COMMONWEALTH OF MASSACHUSETTS
JOHN ZVARA
No. 14406
REGISTERED PROFESSIONAL ENGINEER

NAVSTA DWG. NO. 33970-332
NETC SK. NO.
DSGN JS/JZ
DR. R.L.
BR. John J. Zvara, PE 5/15/02
DIR.
APPROVED DATE
J. Galuska, RA 6/5/02
SATISFACTORY TO
Paul F. Smith
DATE 5/7/02

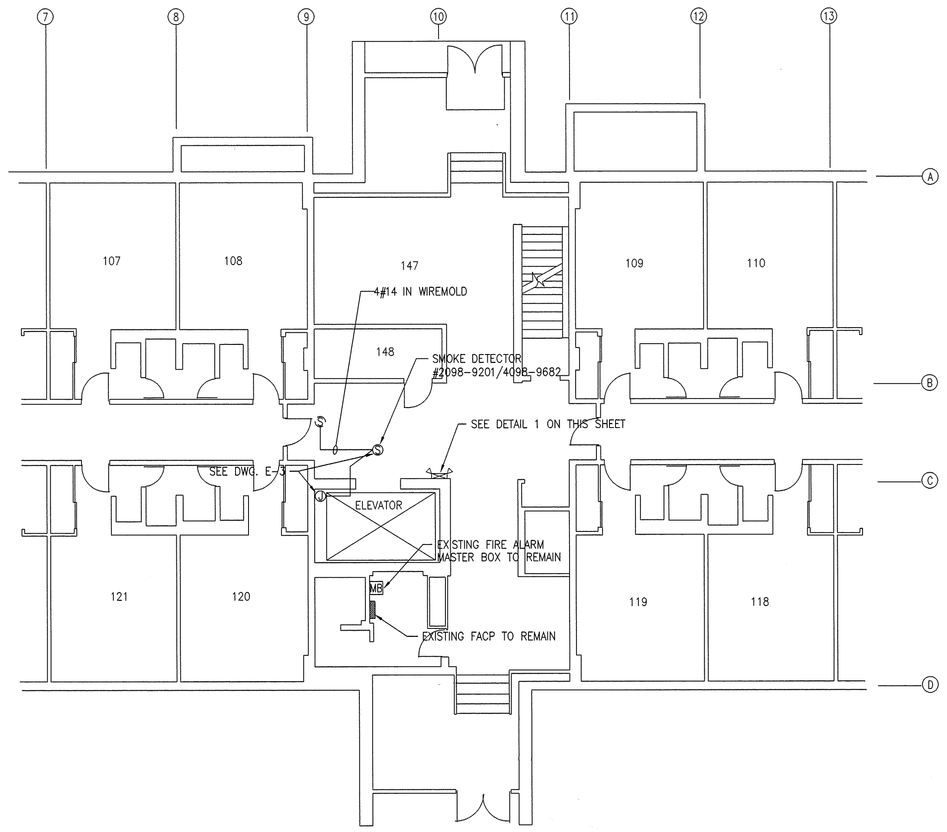
DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

REPAIR ELECTRICAL ELEVATOR
IN BACHELOR OFFICER'S QUARTERS
BUILDING 172 CHI

ELEVATOR DETAILS EL-1

ASI AEROSPACE SYSTEMS, INC.
ENERGY SYSTEMS DIVISION
121 MIDDLESEX TURNPIKE, BURLINGTON, MA 01803
TELEPHONE (781)272-7517 FAX (781)272-7810

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.:
F	80091	2202-681
		CONSTR CONTR NO.: N62472-01-C-6910
SCALE: AS NOTED		SPEC. NO. 04-01-6910 SHEET 2



FIRST FLOOR PLAN

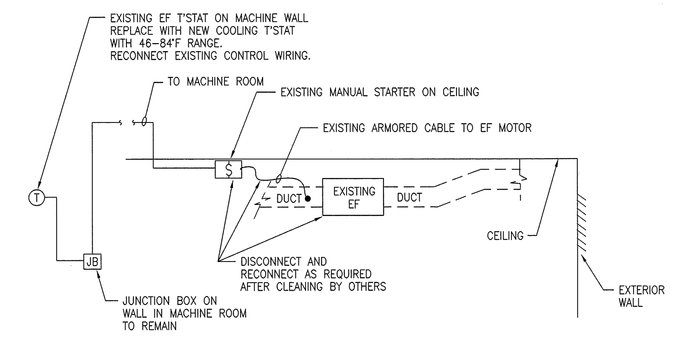
SCALE: 1/8"=1'-0"

SYMBOL LIST (LEGEND)

- CB — CIRCUIT BREAKER IN WALL MOUNTED NEMA 1 ENCLOSURE, TYPE AS NOTED, PROVIDE SHUNT-TRIP
- EXISTING PANEL TO REMAIN, ADD NEW CIRCUIT BREAKERS AS NOTED
- NEW WALL MOUNTED LIGHTING FIXTURE ROBERT WPG-1-120 WITH 100W A-21 LAMP
- JUNCTION BOX SIZE AS REQUIRED
- TTB — TELEPHONE TERMINAL BOARD
- GFI — GROUND FAULT INTERRUPTING 20A DUPLEX RECEPTACLE
- 20A SELF GROUNDING TYPE SPECIFICATION GRADE DUPLEX RECEPTACLE
- S — LIGHTING SWITCH
- S AC — SMOKE DETECTOR, PROVIDE WITH AUXILIARY CONTACTS AS NOTED (AC INDICATES WITH AUXILIARY CONTACTS)
- WIRE AND CONDUIT-3#12 AWG THHN IN 3/4" CONDUIT MINIMUM
- FACP — FIRE ALARM CONTROL PANEL
- MB — FIRE ALARM MASTER BOX
- 12 VOLT CHLORIDE #CR6-2-48W HALOGEN LAMPS. EMERGENCY LIGHTING FIXTURE
- ETR — EXISTING TO REMAIN

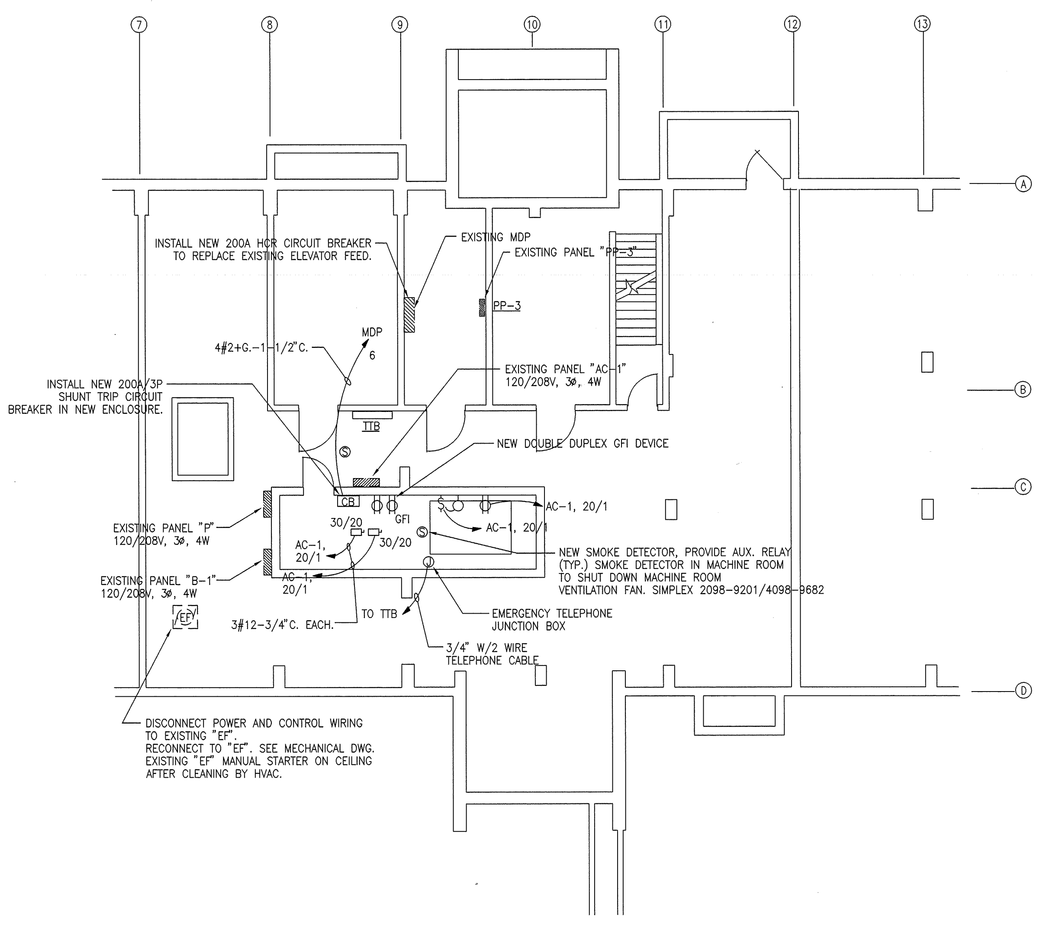
NOTES:

1. CONTRACTOR TO RELAMP EXISTING MACHINE ROOM 4 FOOT, 4 LAMP FLUORESCENT FIXTURE AND TWO INCANDESCENT PIT FIXTURES.
2. PROVIDE LAMINATED SIGN ON NEW MAIN SWITCH FEEDING ELEVATOR IN MACHINE ROOM.
3. COORDINATE ELECTRICAL WORK WITH MECHINICAL/ELEVATOR WORK. SEE MECHANICAL AND ELEVATOR DRAWINGS.



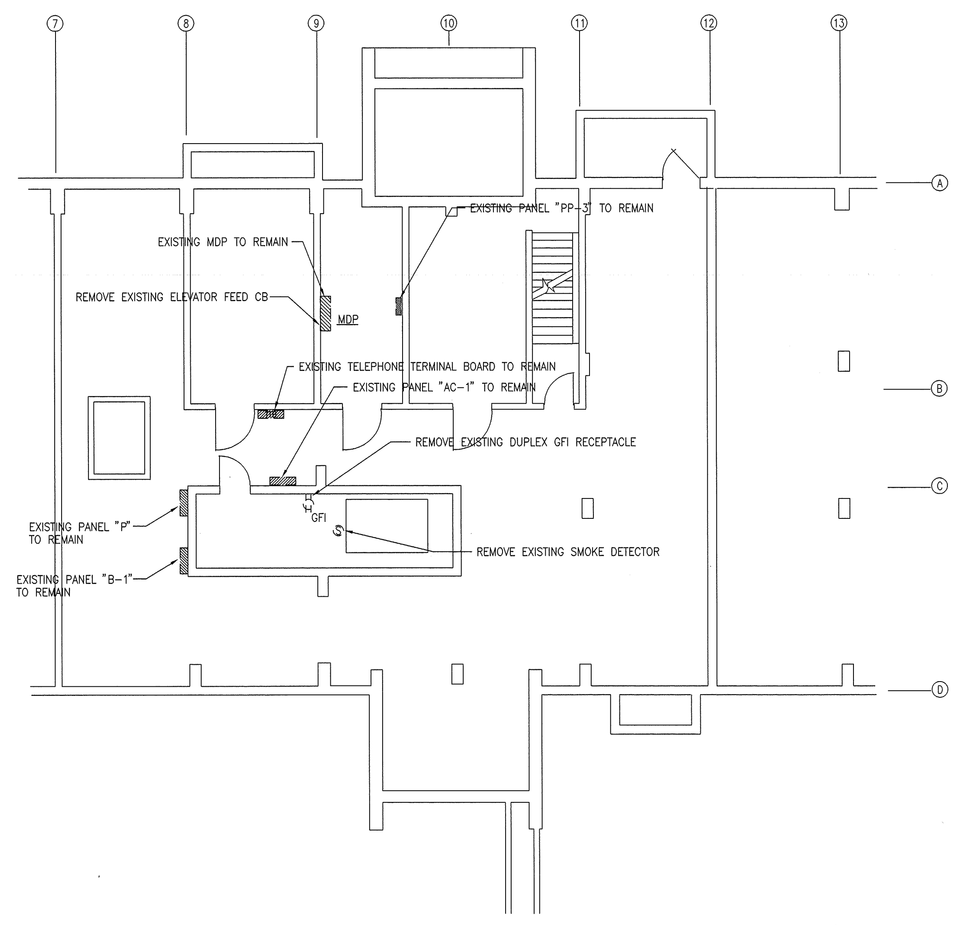
EXHAUST FAN DETAIL

N.T.S.



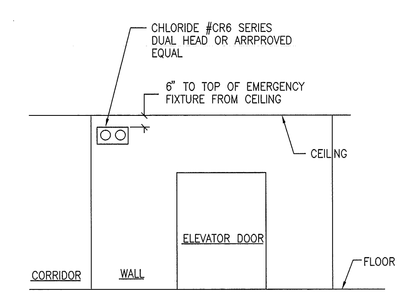
NEW BASEMENT PLAN

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



BASEMENT DEMOLITION PLAN

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



DETAIL 1

N.T.S.

REVISION	DATE	DESCRIPTION	BY

COMMONWEALTH OF MASSACHUSETTS — JOHN ZVARA No. 14406 — PROFESSIONAL ENGINEER

NAVSTA DWG. NO. 33971-332
NETC SK. NO.
DSGN JS/JZ
DR. R.L.
BR. John Zvara 5/15/02
DIR.
APPROVED DATE
D.Stabuska, RA 6/5/02

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

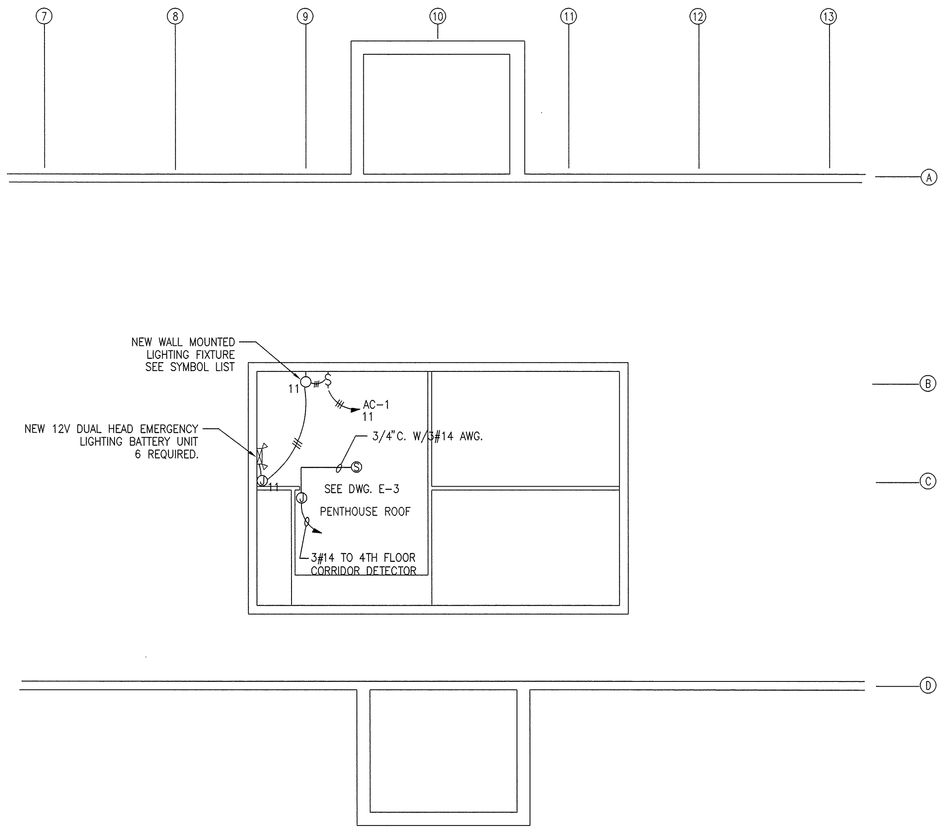
REPAIR ELECTRICAL ELEVATOR
IN BACHELOR OFFICER'S QUARTERS
BUILDING 172 CHI

ELECTRICAL BASEMENT AND
FIRST FLOOR PLANS E-1

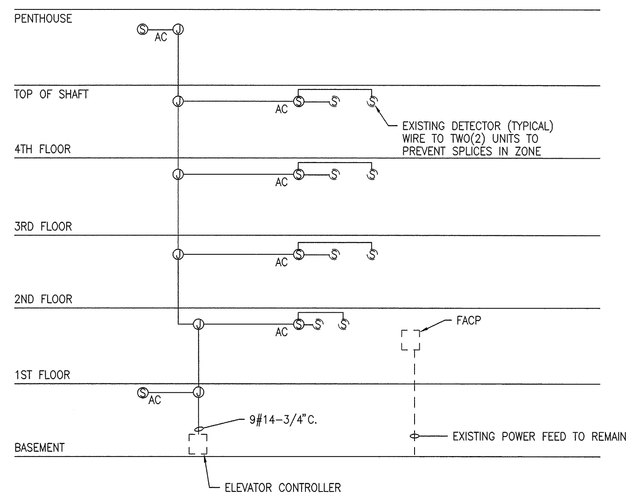
ASI — AEROSPACE SYSTEMS, INC. ENERGY SYSTEMS DIVISION, 131 MIDDLESEX TURNPIKE, BURLINGTON, MA 01803, TELEPHONE (781)272-7517, FAX (781)272-7810

SATISFACTORY TO: Paul R. Santos
DATE 5/16/02

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.: 2202-682
F	80091	CONSTR CONTR NO.: N62472-01-C-6910
SCALE: AS NOTED		SPEC. NO. 04-01-6910 SHEET 3

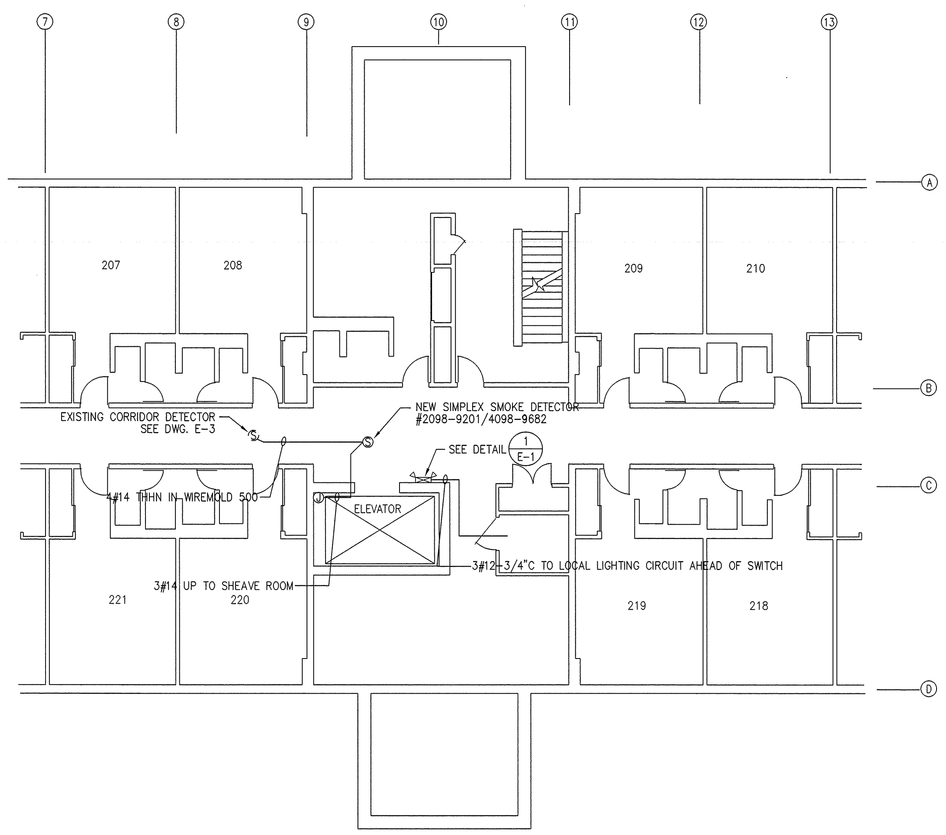


ROOF PLAN
SCALE: 1/8"=1'-0"



NOTE: SEE DRAWINGS FOR WIRE COUNTS AND ROUTING. SEE E-3 SECTION THROUGH SHAFT FOR WIRING DETAIL.

FIRE ALARM PARTIAL RISER
N.T.S.



2ND, 3RD, AND 4TH FLOOR PLAN
SCALE: 1/8"=1'-0"
(APPLIES TO WORK REQUIRED ON 3 FLOORS)

SMOKE DETECTOR NUMBER	LANDING ON ACTIVATION	FIREFIGHTER SERVICE LIGHT
1	SECOND	FLASHING
2	SECOND	NON-FLASHING
3	FIRST	NON-FLASHING
4	FIRST	NON-FLASHING
5	FIRST	NON-FLASHING
6	FIRST	FLASHING

ELEVATOR RECALL SCHEDULE
N.T.S.

REVISION	DATE	DESCRIPTION	BY

NAVSTA DWG. NO. 33972-332
NETC SK. NO.
DSGN JS/JZ
DR. R.L.
BR. [signature] PE 5/15/02
DIR.
APPROVED DATE
[signature] RA 6/5/02

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

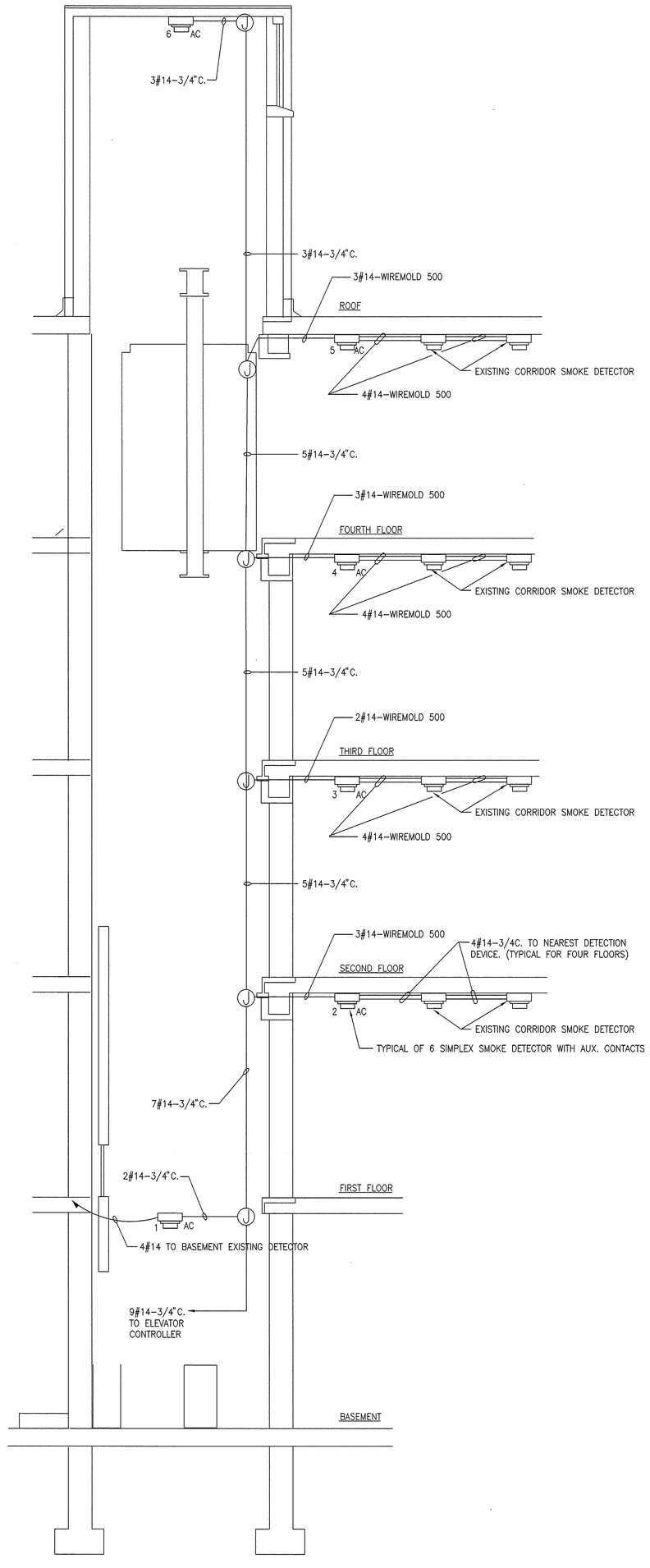
REPAIR ELECTRICAL ELEVATOR
IN BACHELOR OFFICER'S QUARTERS
BUILDING 172 CHI

ELECTRICAL 2ND, 3RD, AND 4TH FLOOR
AND ROOF PLANS E-2

ASI AEROSPACE SYSTEMS, INC.
ENERGY SYSTEMS DIVISION
121 MIDDLESEX TURNPIKE, BURLINGTON, MA 01803
TELEPHONE (781)272-7517 FAX (781)272-7810

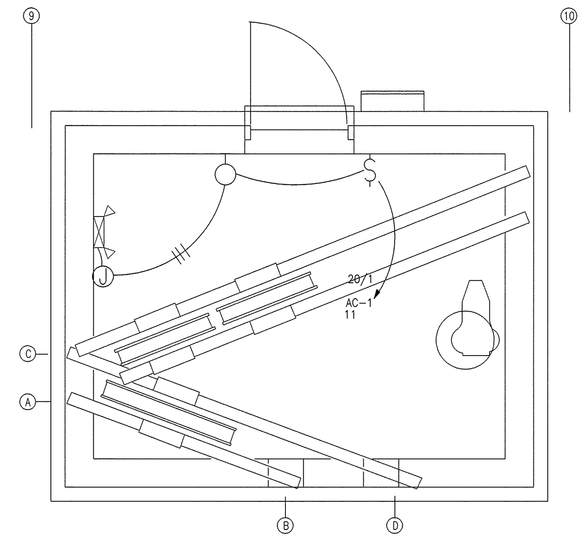
SATISFACTORY TO [signature]
DATE 5/1/02

SIZE F | CODE IDENT NO. 80091 | NAVFAC DRAWING NO.: 2202-683
CONSTR CONTR NO.: N62472-01-C-6910
SCALE: AS NOTED | SPEC. NO. 04-01-6910 | SHEET 4



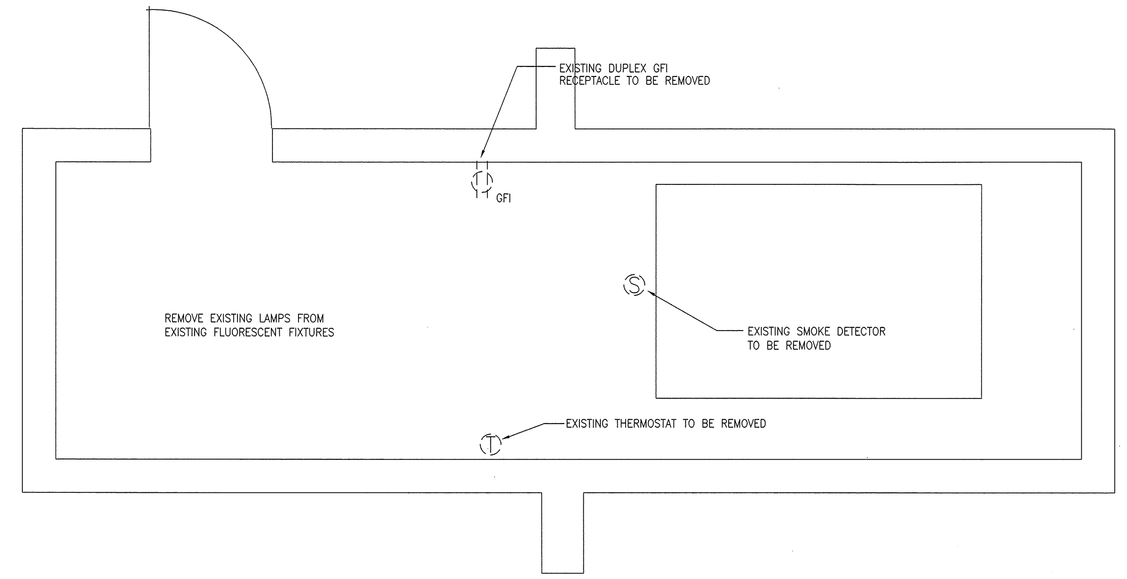
SECTION THRU SHAFT

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



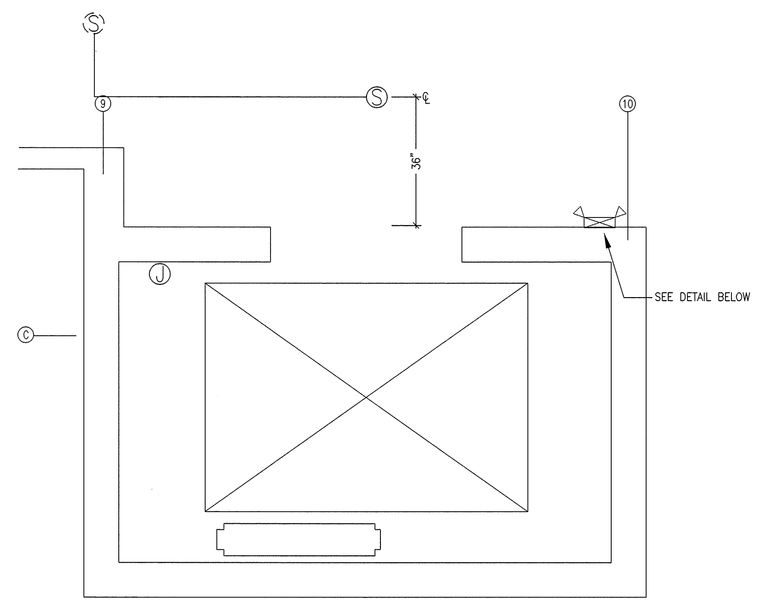
SHEAVE ROOM PLAN

SCALE: 1/2"=1'-0"



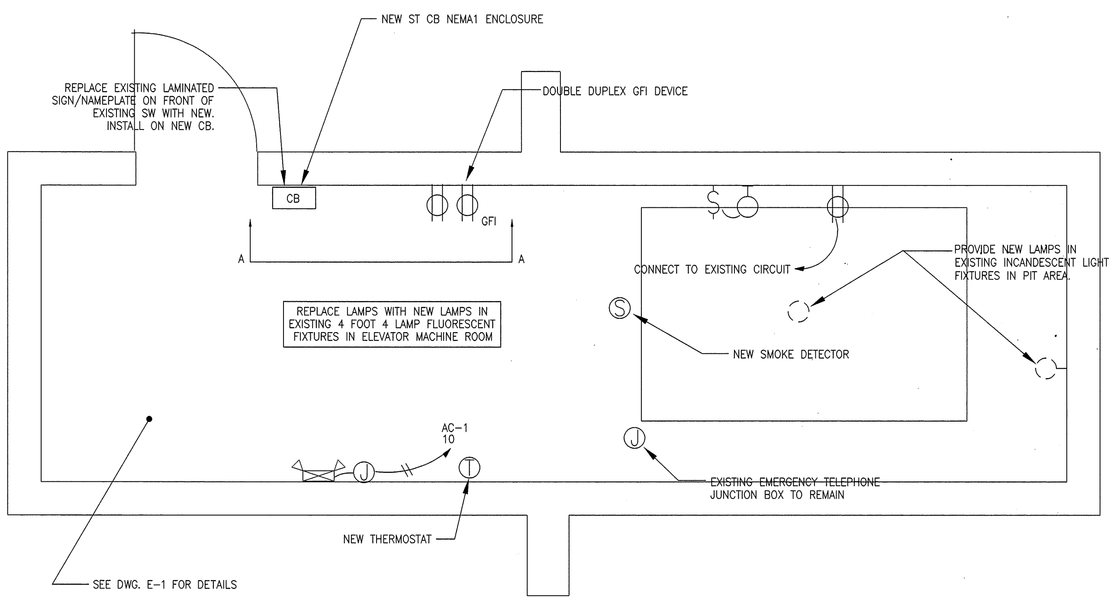
BASEMENT DEMOLITION PLAN

SCALE: 1/2"=1'-0"



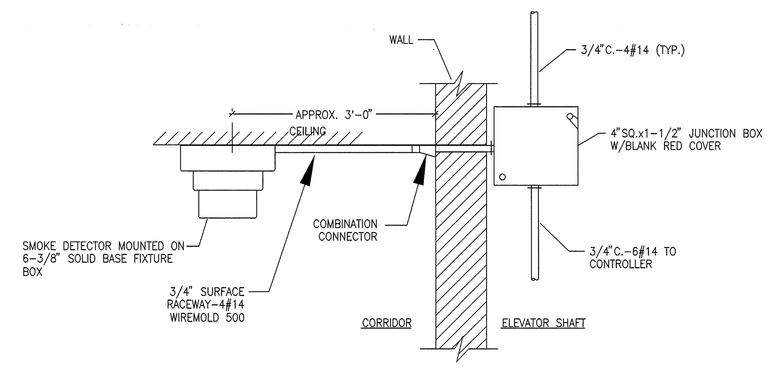
TYPICAL FLOOR PLAN

SCALE: 1/2"=1'-0"



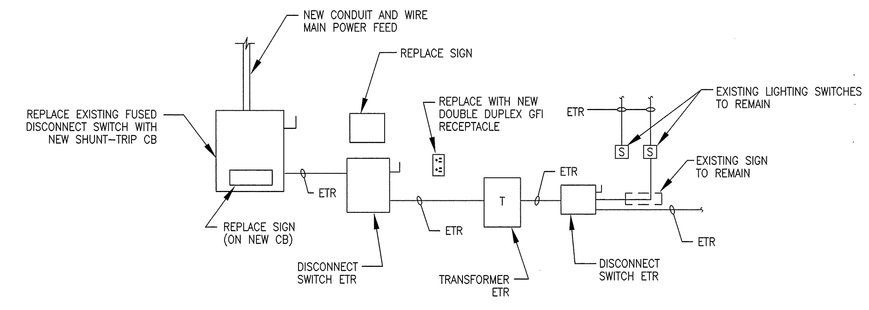
NEW BASEMENT PLAN

SCALE: 1/2"=1'-0"



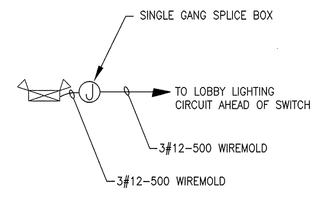
SMOKE DETECTOR DETAIL

N.T.S.



ELEVATOR MACHINE ROOM-WALL ELEVATION "A-A"

N.T.S.



EMERGENCY LIGHTING POWER DETAIL

N.T.S.

REVISION	DATE	DESCRIPTION	BY

NAVSTA DWG. NO. 33973-332
NETC SK. NO.
DSGN JS/JZ
DR. R.L.
BR.
DIR.
APPROVED DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

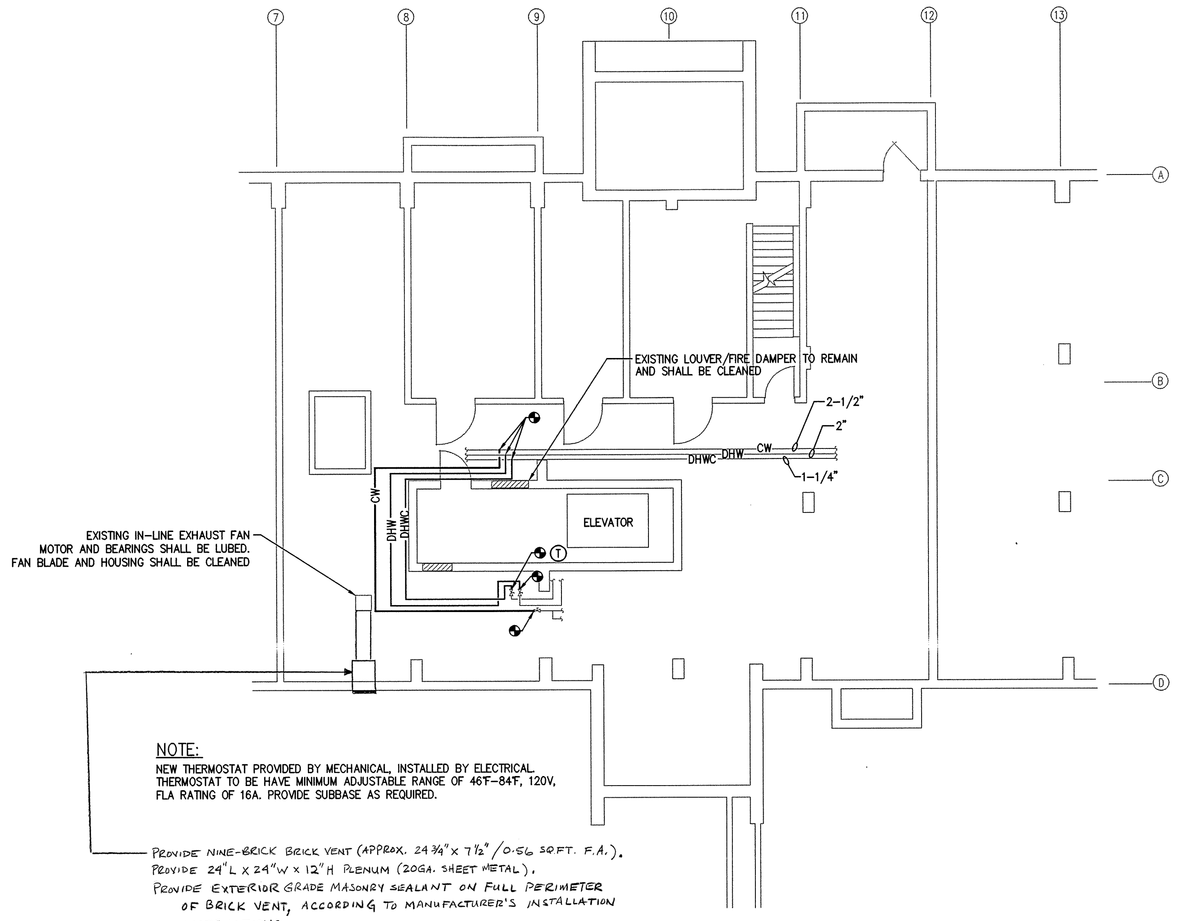
REPAIR ELECTRICAL ELEVATOR
IN BACHELOR OFFICER'S QUARTERS
BUILDING 172 CHI

ELECTRICAL DETAILS E-3

ASI AEROSPACE SYSTEMS, INC.
ENERGY SYSTEMS DIVISION
121 MIDDLESEX TURNPIKE, BURLINGTON, MA 01803
TELEPHONE (781)272-7517 FAX (781)272-7810

SATISFACTORY TO
DATE

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.:
F	80091	2202-684
		CONSTR CONTR NO.: N62472-01-C-6910
SCALE: AS NOTED		SPEC. NO. 04-01-6910 SHEET 5



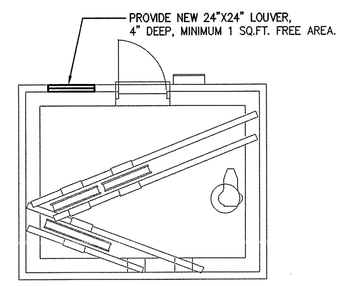
NOTE:
NEW THERMOSTAT PROVIDED BY MECHANICAL, INSTALLED BY ELECTRICAL. THERMOSTAT TO BE HAVE MINIMUM ADJUSTABLE RANGE OF 46°F–84°F, 120V, FLA RATING OF 16A. PROVIDE SUBBASE AS REQUIRED.

PROVIDE NINE-BRICK BRICK VENT (APPROX. 24 3/4" x 7 1/2" / 0.56 SQ FT. F.A.).
PROVIDE 24"L x 24"W x 12"H PLENUM (20GA. SHEET METAL).
PROVIDE EXTERIOR GRADE MASONRY SEALANT ON FULL PERIMETER OF BRICK VENT, ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
PROVIDE RE-CLOSABLE ACCESS PANEL IN BOTTOM OF NEW PLENUM.

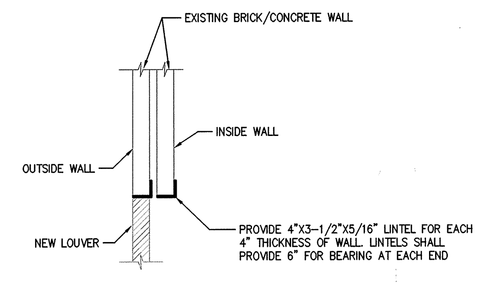
NEW BASEMENT PLAN
SCALE: 1/8"=1'-0"

LEGEND:

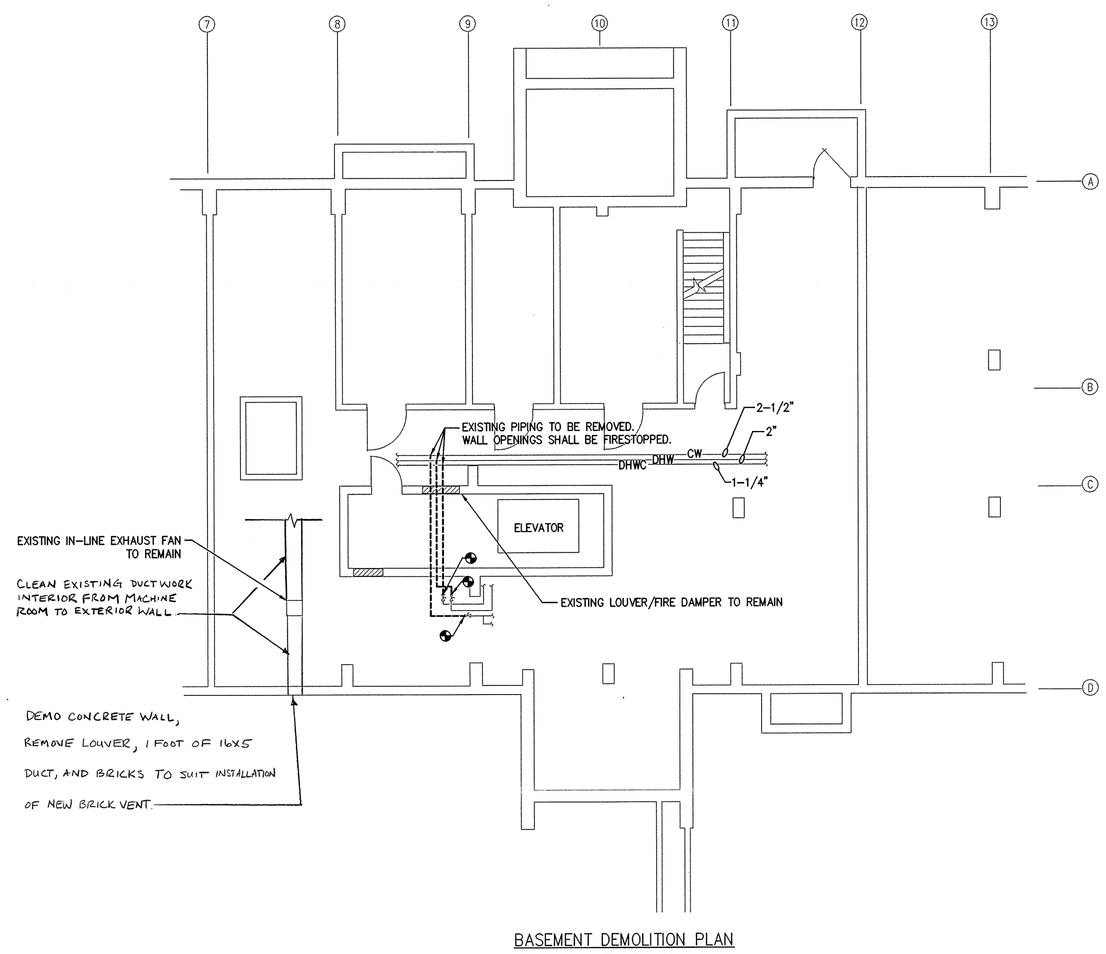
—CW—	COLD WATER LINE
—DHW—	DOMESTIC HOT WATER LINE
—DHWC—	DOMESTIC HOT WATER CIRCULATING LINE
- - - - - -	TO BE REMOVED
———	NEW LINES
	FIRE DAMPER
	POINT OF CONNECTION/DISCONNECTION
	BALL VALVE
(T)	THERMOSTAT



SHEAVE ROOM PLAN
SCALE: 1/4"=1'-0"



LOUVER OPENING
N.T.S.



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

REVISION	DATE	DESCRIPTION	BY
A	8/02	REPAIRS TO EXHAUST FAN.	RLC

COMMONWEALTH OF MASSACHUSETTS
JOHN ZVIAN
No. 14408
REGISTERED PROFESSIONAL ENGINEER

NAVSTA DWG. NO. 33974-332
NETC SK. NO.
DSGN JS/JZ
DR. R.L.
BR. [signature] 5/15/02 PE
DIR.
APPROVED DATE
[signature] RA 6/5/02

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

REPAIR ELECTRICAL ELEVATOR
IN BACHELOR OFFICER'S QUARTERS
BUILDING 172 CHI

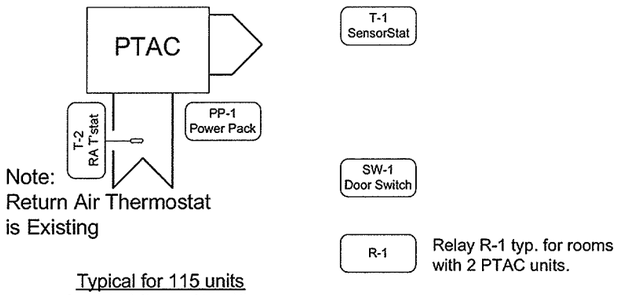
MECHANICAL PLANS M-1

ASI AEROSPACE SYSTEMS, INC.
ENERGY SYSTEMS DIVISION
121 MIDDLESEX TURNPIKE, BURLINGTON, MA 01803
TELEPHONE (781)272-7517 FAX (781)272-7810

SATISFACTORY TO [signature]
DATE 5/7/02

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.:
F	80091	2202-685
		CONSTR CONTR NO.: N62472-01-C-6910
SCALE: AS NOTED		SPEC. NO. 04-01-6910 SHEET 6

M-1

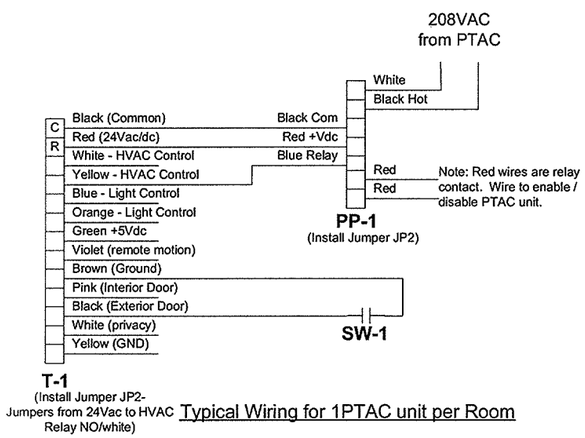


Note:
Return Air Thermostat is Existing

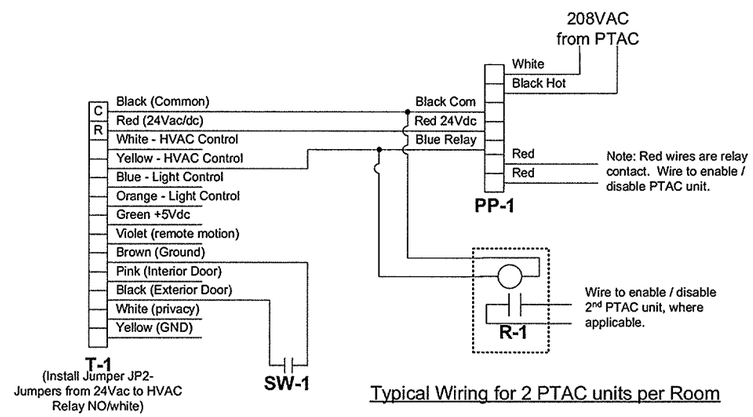
Typical for 115 units
Located floors 1st - 4th

Unit Type	Unit Qty	Rooms /Unit	PTACs /Unit	Sensors /Unit	Door Contacts /Unit
East Suites	4	2	4	1	1
Std. Suites	40	2	2	1	1
West Efficiencies	8	1	2	1	1
North Efficiencies	3	1	1	1	1
Totals	55		115	55	55

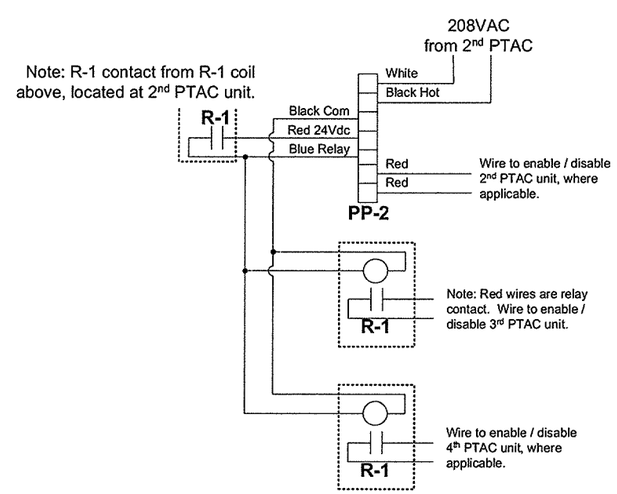
Desig.	Qty.	Part #	Description
PP-1-2	59	POWER PACK	x VAC/24VDC POWER SUPPLY W/RELAY
R-1	60	V120	24vac/vdc 20amp SPDT RELAY
SW-1	55	1078Cx	MAGNETIC DOOR SWITCH
T-1	55	2000X / 100077	SENSOR STAT
	55	100757	WIRING HARNESS FOR 2000X
T-2	115	EXISTING	RETURN AIR THERMOSTAT



Typical Wiring for 1PTAC unit per Room



Typical Wiring for 2 PTAC units per Room



Typical Wiring for 4 PTAC units per Room

DIP Switch Settings
Switch 1&2 Set Back Set points - See Sequence of Operations
Switch 3 On Occupied Limits enabled - per owner set at 77/67.
Switch 4 Off Exterior Door used
Switch 5 Off 20 Second Exterior Door timeout disabled
Switch 6 Off Soft Bypass disabled
Switch 7 Off Fast Clock Test off
Switch 8 Off Local Motion Detect enable
Switch 9 On Interior Door switch not installed
Switch 10 OffExterior Door operates normally

Jumper Settings
JP1 installed
JP2 installed for HVAC relay power
JP3 not installed for Lighting control
JP5 not installed for Permanently bypassing energy management features

SEQUENCE OF OPERATIONS

PTAC Units

PTAC units are controlled from their exising return air temperature sensor to maintain heating and cooling demands. Onity Sensor 2000x will enable PTAC unit as follows:

Mode of Operation:
The SensorStat 2000x uses both the door contacts and the built-in infrared motion detector to determine the mode of operation. If the door is closed and motion is detected, the room is in the Occupied Mode and the associated PTAC is enabled.

If the door is closed and no motion is detected for 8 minutes, the room is in the Unoccupied Mode. The PTAC is disabled. If room temperature drops below the heating set back temperature set point or if the room temperature rises above the cooling set up temperature set point, the PTAC is enabled, until the temperature is 2degf above/below unoccupied set points. Set back set points will be:
Cool: 78 Heat: 66 Sw1 On, Sw2 Off

If the door is left open, the unit is disabled after 32 minutes, regardless whether or not motion is detected. The unit will not be allowed to restart until the door is closed, with the following exception: The unit will be allowed to restart under the Freeze guard feature (see below).

The Freeze guard feature of the SensorStat 2000x will enabled the PTAC whenever room temperature drops to 40degf.

The PTAC unit will enter a deep set back mode if no motion is detected for 15 hours. In this mode, the setback temperature is 82degf and 63degf. When motion is detected in the room, the unit resumes normal operation.

Notes:
1. T-1 includes passive infrared (PIR) sensor. Locate for best field of view. All sensors to be field located with owner's rep.
2. SW-1 located at main door entrance to room / suite.
3. SW-1, p/n 100688 for steel and wood doors, 2-piece, ¾" gap. Other gap distances to be verified by EMC prior to ordering. White color as requested by owner.
4. T-1 wiring to be any jacketed cable, 18 AWG.
5. PP-1 includes 24Vdc power supply with integral relay for control of PTAC, 208Vac.
6. Temperature control of PTAC via existing return air thermostat.
7. Surface mounted wire molding will be used as ceilings may have asbestos and can not be used or touched.

ATC-1

REVISIONS			
1	9/3/04	As-Builts	PB
REVISION	DATE	DESCRIPTION	BY

ARCH. CIV STR.
MECH PRMGR
ELEC
SATISFACTORY TO DATE
SATISFACTORY TO DATE
SATISFACTORY TO DATE
HEAD, ENGINEERING BRANCH DATE

DESIGN/BUILDER: COMBINED ENERGIES
ADDRESS: 539 WESTERN AVE., AUGUSTA, MAINE
ELECTRICAL MAINTENANCE & CONTROL, INC.
116 BUILDING ROAD
CRANSTON, RI 02920
DSGN: MSH/DRV DRWN: MSH/DRV CHK: MSH/DRV
SUPV
SUBMITTED BY:
(SIGNED) (TITLE) (DATE)

DEPARTMENT OF THE NAVY
NAVAL STATION
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

NAVAL STATION NEWPORT
DSM - BUILDING CONTROL UPGRADES
BLDG 172 BOQ - PTAC

CODE I.D. NO.
DRAWING SIZE:
CONST. CONT. NO.
N62470-97-D-5018 JN/05
SPEC. 04-97-5018
NAVFAC DRAWING NO.
2204015
SHEET 1 OF 1
NAVSTA#
35469-347

ATC-1A

ARCH	CIV STR				
MECH	PRMGR				
ELEC					
SATISFACTORY TO	DATE				
SATISFACTORY TO	DATE	1	9/3/04	As-Builts	PB
SATISFACTORY TO	DATE	REVISION	DATE	DESCRIPTION	BY
HEAD, ENGINEERING BRANCH	DATE	REVISIONS			

DESIGN/BUILDER: COMBINED ENERGIES
ADDRESS: 528 WESTERN AVE., AUGUSTA, MAINE

ELECTRICAL MAINTENANCE & CONTROL, INC
116 BUDLONG ROAD
CRANSTON, RI 02920

DSGN: MSH/DRV DRWN: MSH/DRV CHK: MSH/DRV

SUPV:

SUBMITTED BY:

(SIGNED) (TITLE) (DATE)

DEPARTMENT OF THE NAVY
NAVAL STATION

NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

NAVAL STATION NEWPORT
DSM - BUILDING CONTROL UPGRADES
BLDG 172 - 1ST FLOOR PLAN

CODE I.D. NO.

DRAWING SIZE:

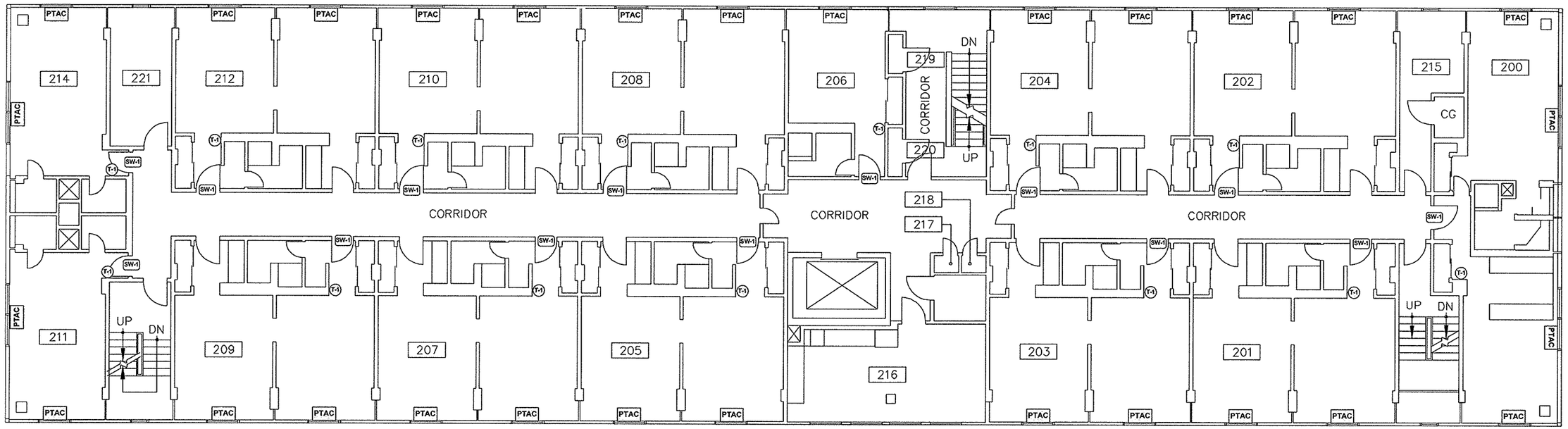
CONST. CONT. NO.
N62470-97-D-5018 JN/05

SPEC. 04-97-5018

NAVFAC DRAWING NO.
2204016

SHEET 1 OF 1

NAVSTA #
35470-347



ATC-1B

REVISIONS			
REVISION	DATE	DESCRIPTION	BY
1	9/3/04	As-Builts	PB

CIV STR.
ARCH
PRMGR.
MECH
ELEC.

SATISFACTORY TO DATE
SATISFACTORY TO DATE
SATISFACTORY TO DATE
HEAD, ENGINEERING BRANCH DATE

DESIGN/BUILDER COMBINED ENERGIES
ADDRESS 526 WESTERN AVE., AUGUSTA, MAINE
ELECTRICAL MAINTENANCE & CONTROL, INC.
116 BUCKLING ROAD
CRANSTON, RI 02920

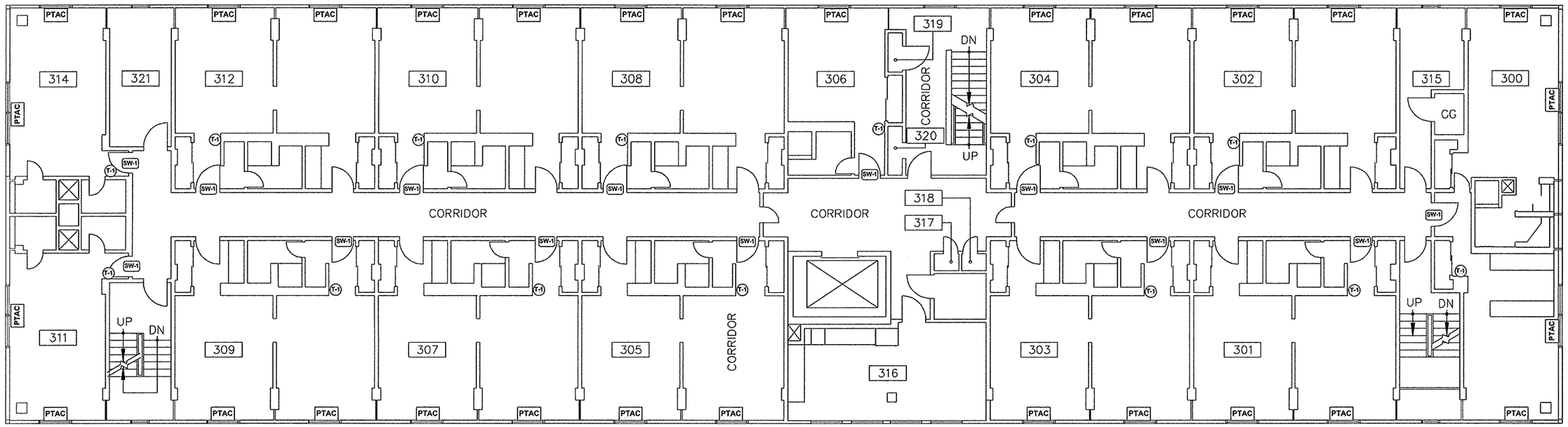
DSGN MSHDRV DRWN MSHDRV CHK MSHDRV
SUPV.
SUBMITTED BY
(SIGNED) (TITLE) (DATE)

DEPARTMENT OF THE NAVY
NAVAL STATION
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

NAVAL STATION NEWPORT
DSM - BUILDING CONTROL UPGRADES

BLDG 172 - 2ND FLOOR PLAN

CODE I.D. NO.
DRAWING SIZE:
CONST. CONT. NO.
N62470-97-D-5018 JN/05
SPEC. 04-97-5018
NAVFAC DRAWING NO.
2204017
SHEET 1 OF 1
NAVSTA #
35471-347



ARCH.	CIV. STR.				
MECH	PRMGR.				
ELEC.					
SATISFACTORY TO	DATE				
SATISFACTORY TO	DATE	1	9/3/04	As-Builts	PB
SATISFACTORY TO	DATE	REVISION	DATE	DESCRIPTION	BY
HEAD, ENGINEERING BRANCH	DATE	REVISIONS			

DESIGN/BUILDER: COMBINED ENERGIES
ADDRESS: 528 WESTERN AVE., AUGUSTA, MAINE

ELECTRICAL MAINTENANCE & CONTROL, INC.
116 BUDLONG ROAD
CRANSTON, RI 02920

DSGN: MSHDRV DRWN: MSHDRV CHK: MSHDRV

SUPV:

SUBMITTED BY:

(SIGNED) (TITLE) (DATE)

DEPARTMENT OF THE NAVY
NAVAL STATION

NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

NAVAL STATION NEWPORT
DSM - BUILDING CONTROL UPGRADES
BLDG 172 - 3RD FLOOR PLAN

CODE I.D. NO.

DRAWING SIZE:

CONST. CONT. NO.
N62470-97-D-5018 JN/05

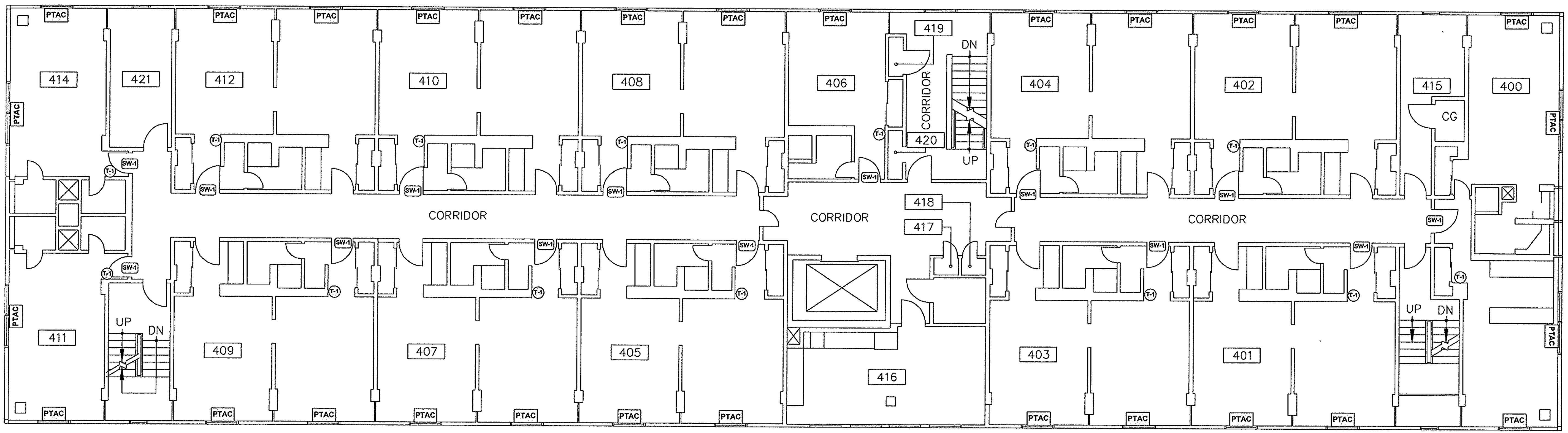
SPEC. 04-97-5018

NAVFAC DRAWING NO.
2204018

SHEET 1 OF 1

NAVSTA#
35472-347

ATC-1C



REVISIONS

REVISION	DATE	DESCRIPTION	BY
1	9/3/04	As-Builts	PB

ARCH | CIV STR
MECH | PRMGR
ELEC.
SATISFACTORY TO | DATE
SATISFACTORY TO | DATE
SATISFACTORY TO | DATE
HEAD, ENGINEERING BRANCH | DATE

DESIGN/BUILDER: COMBINED ENERGIES
ADDRESS: 526 WESTERN AVE., AUGUSTA, MAINE
ELECTRICAL MAINTENANCE & CONTROL, INC
116 BUDLONG ROAD
CRANSTON, RI 02920
DSGN: MSH/DRV DRWN. MSH/DRV CHK. MSH/DRV
SUPV.
SUBMITTED BY:
(SIGNED) (TITLE) (DATE)

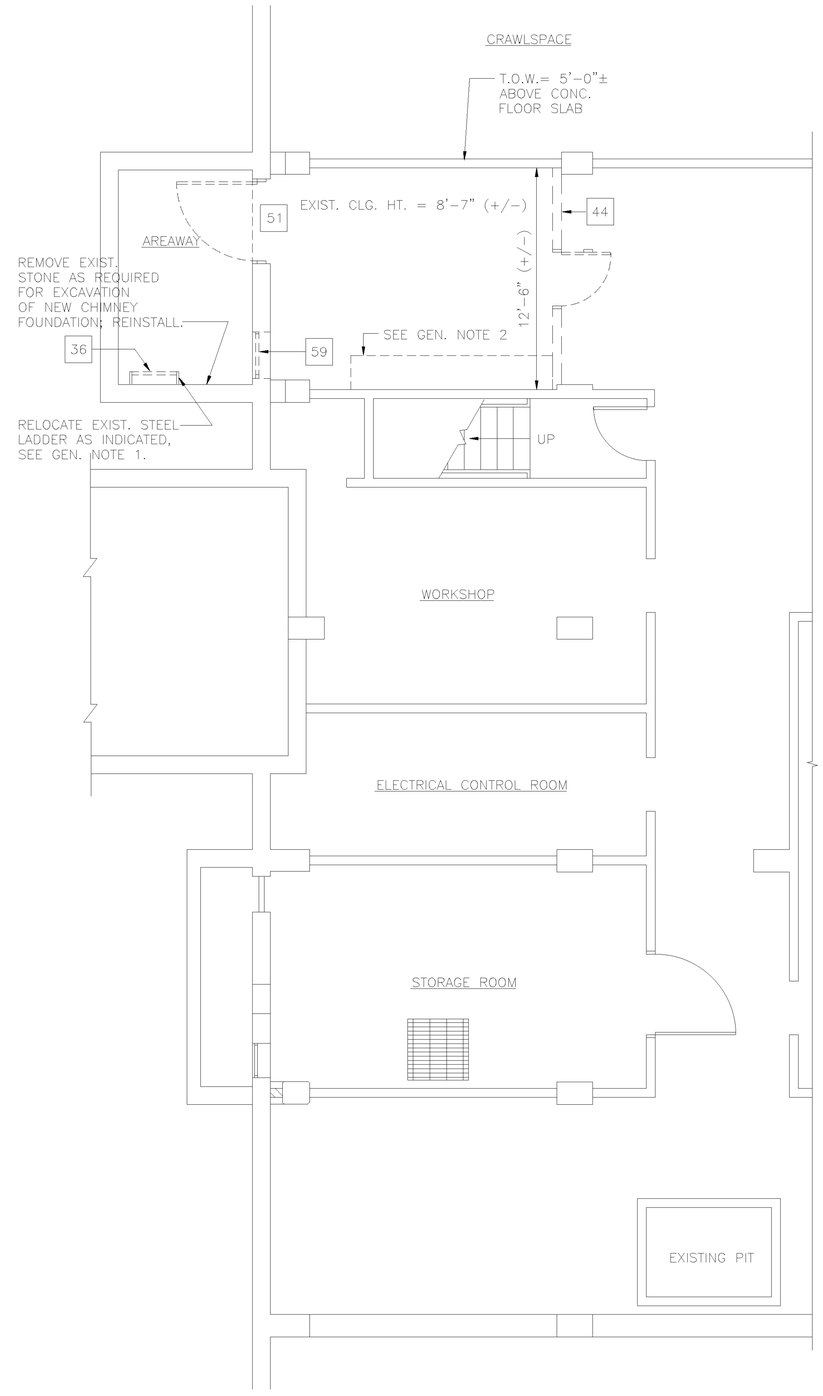
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION NEWPORT, R.I.

NAVAL STATION NEWPORT
DSM - BUILDING CONTROL UPGRADES

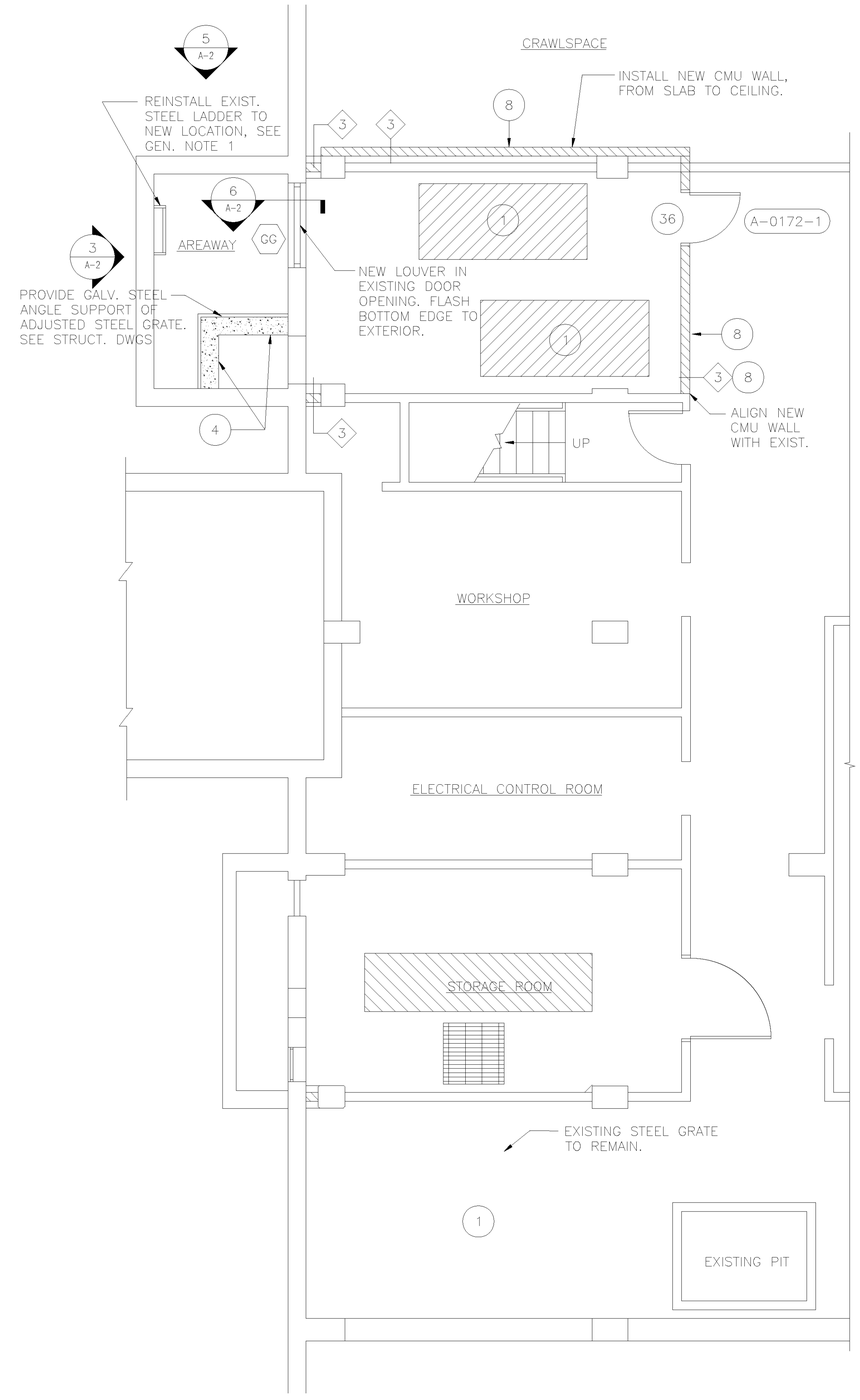
BLDG 172 - 4TH FLOOR PLAN

CODE I.D. NO.
DRAWING SIZE:
CONST. CONT. NO.
N62470-97-D-5018 JN/05
SPEC. 04-97-5018
NAVFAC DRAWING NO.
2204019
SHEET 1 OF 1
NAVSTA #
35473-347

ATC-1D



1 A-1 BASEMENT MECHANICAL ROOM PLAN – DEMOLITION
SCALE: 1/4" = 1'-0"



2 A-1 BASEMENT MECHANICAL ROOM PLAN – RENOVATIONS
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. REMOVE AND RELOCATE EXIST. STEEL LADDER TO NEW LOCATION AS INDICATED. PROVIDE NEW GALVANIZED PARTS AND FASTENERS AS REQUIRED FOR A COMPLETE, FINISHED, AND SAFE INSTALLATION. PREPARE, PRIME AND PAINT.

2. REMOVE EXISTING WOOD WORKBENCH, SALVAGE FOR REUSE, OR DISPOSE OF PER INSTRUCTION OF GOVERNMENT REPRESENTATIVE. APPROXIMATE DIMENSIONS ARE 2'-0" DEEP X 12'-0" WIDE X 2'-8" HIGH.

3. REMOVE EXIST. STEEL GRATES (3 TOTAL). ADJUST AND REINSTALL FOR FIT UP TO NEW FLUE ENCLOSURE. PROVIDE NEW GALVANIZED PARTS AND FASTENERS AS REQUIRED FOR A COMPLETE, FINISHED AND SAFE INSTALLATION. PREPARE, PRIME AND PAINT.

LEGEND:

- 1 DEMOLITION WORK NOTE – SEE DRAWING A-0000-2
- REMOVE FLOOR AREA
- REMOVE WALL
- REMOVE DOOR
- 2 RENOVATION WORK NOTE – SEE DRAWING A-0000-2
- NEW CONCRETE SLAB INFILL
- NEW CONCRETE PAD
- NEW WALL (OR WALL INFILL)
- NEW DOOR
- 0000-1 NEW DOOR – SEE DOOR SCHEDULE

GRAPHIC SCALE
1/4" = 1'-0"
0 2' 4' 8' 12'

N

AS BUILT | NAVSTA# 36006-352

REVISIONS

REV.	DATE	DESCRIPTION	BY

DESIGN/BUILDER: O. AHLBORG & SONS INC.
ADDRESS: 48 MOLTER ST, CRANSTON, RI 02910
DESIGNER OF RECORD FOR FINAL DESIGN:
MAGUIRE GROUP
33 COMMERCIAL ST, SUITE 1, FOXBOROUGH, MA 02035

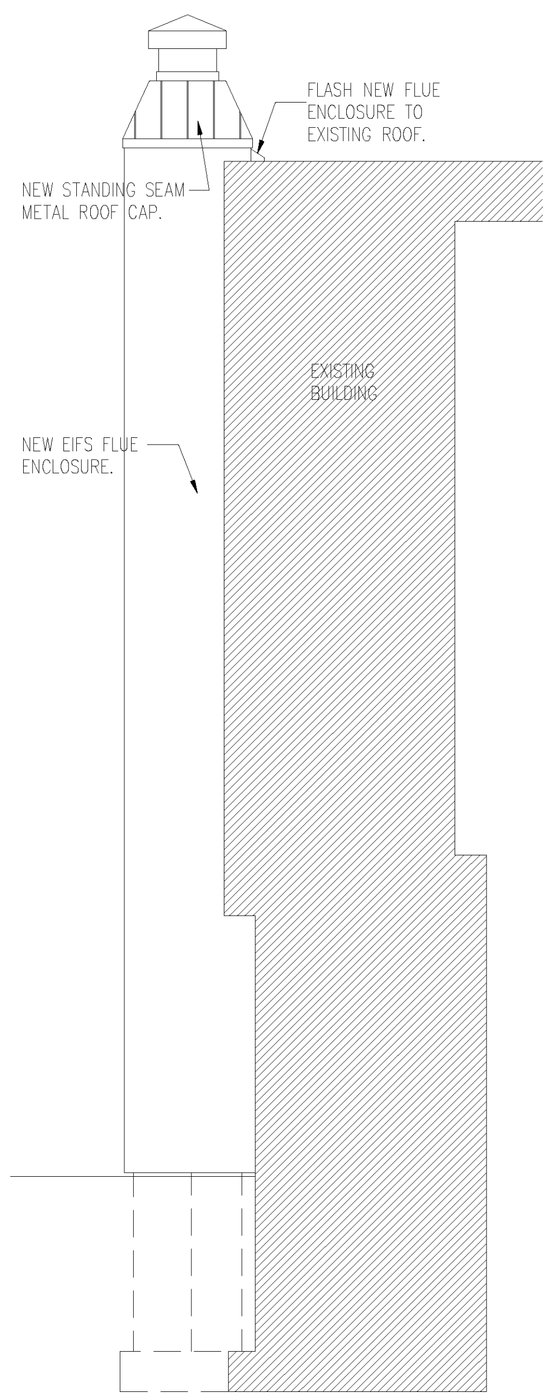
DSGN: JAG	DRWN: SJB	CHK: JAG	
SUPV: T. S. BRYDA, P.E.			
SUBMITTED BY:			
(SIGNED)	(TITLE)	(DATE)	

ARCH. | CIV. STR. | MECH. | PRMGR. | ELEC.
SATISFACTORY TO | DATE
SATISFACTORY TO | DATE
SATISFACTORY TO | DATE
HEAD, ENGINEERING BRANCH | DATE

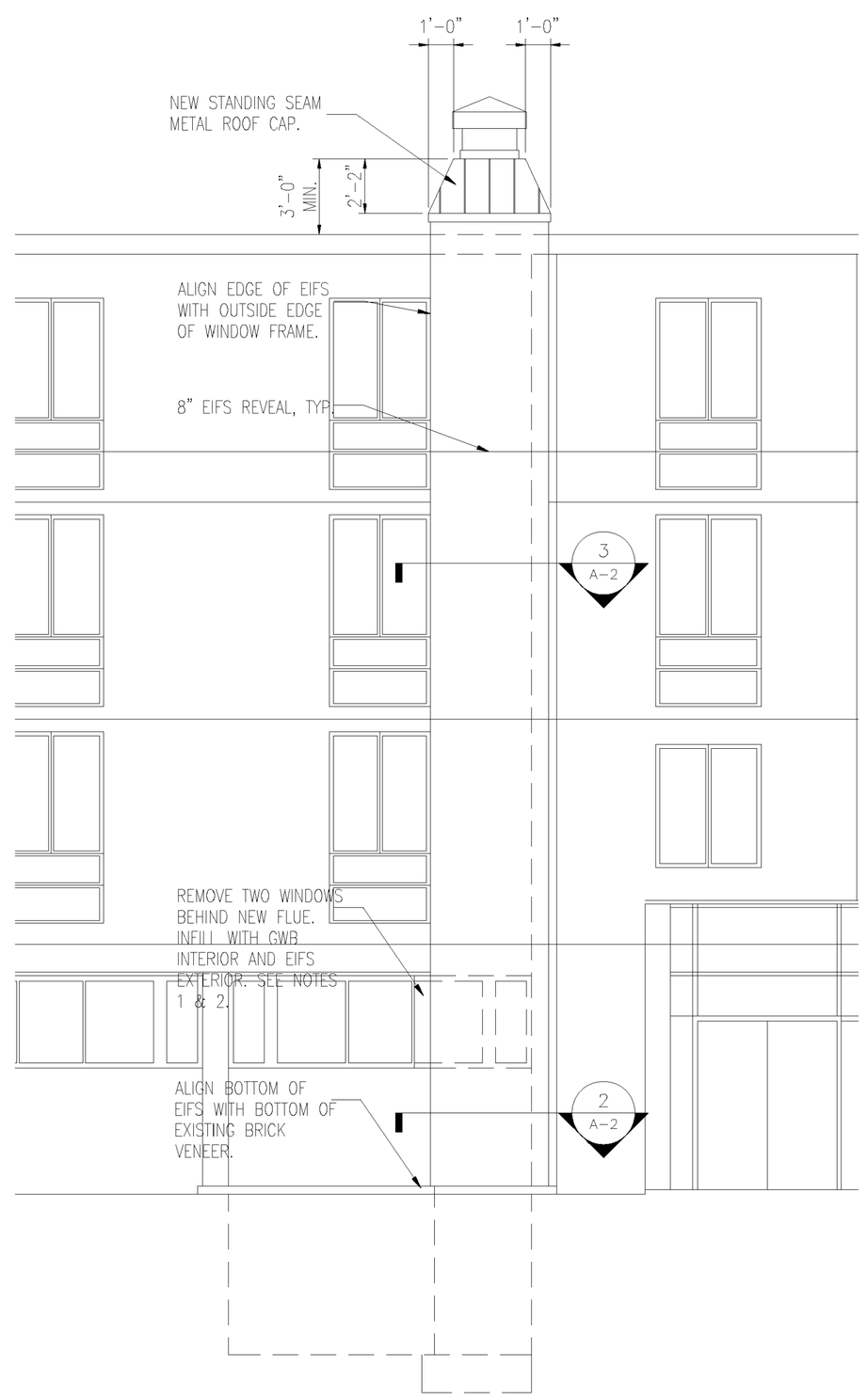
DEPARTMENT OF THE NAVY
NAVAL STATION
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

NAVAL STATION NEWPORT
DSM – DECENTRALIZATION
B.O.Q. BLDG. 172
MECHANICAL ROOM PLANS

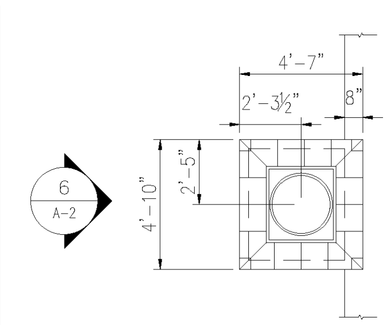
CODE I.D. NO.
DRAWING SIZE: 22x34
CONST. CONT. NO. N62470-97-D-5018 -JN14/08
SPEC.
NAVFAC DRAWING NO. 222 8048
SHEET OF
PW NO. A-0172-1



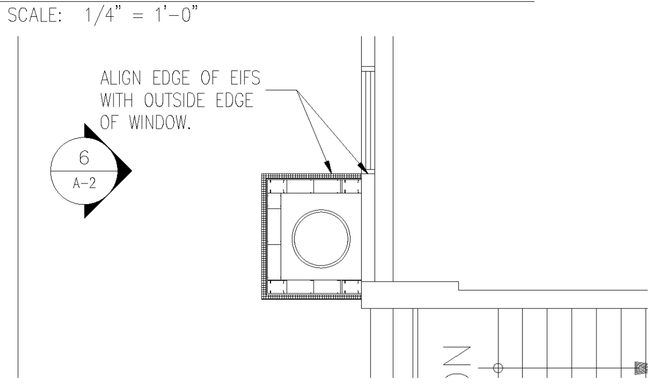
7 A-2 WEST ELEVATION
SCALE: 1/4" = 1'-0"



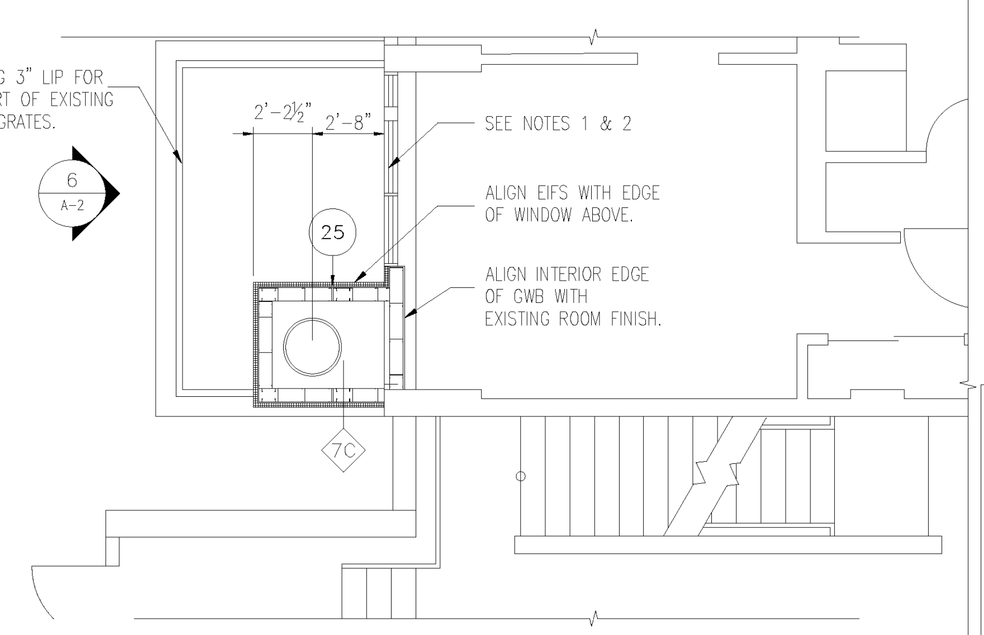
6 A-2 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



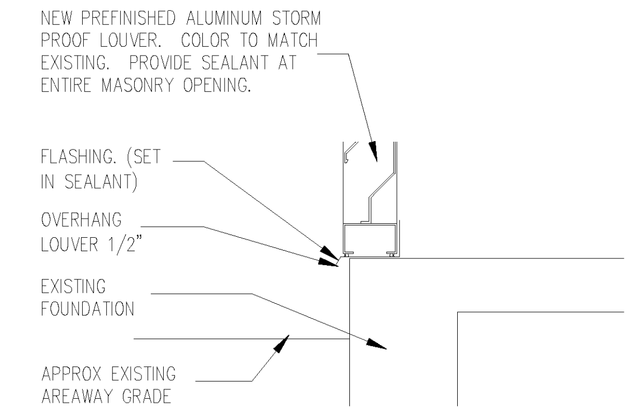
4 A-2 ROOF PLAN – RENOVATIONS
SCALE: 1/4" = 1'-0"



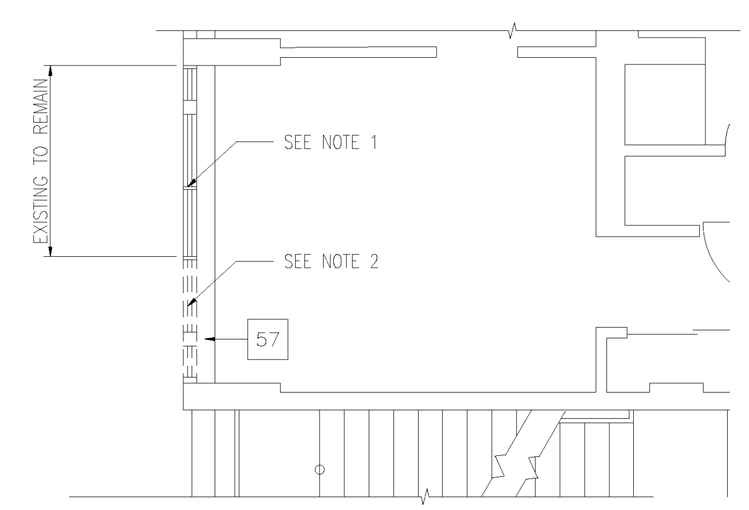
3 A-2 2ND & 3RD FLR PLAN – RENOVATIONS
SCALE: 1/4" = 1'-0"



2 A-2 FIRST FLOOR PLAN – RENOVATIONS
SCALE: 1/4" = 1'-0"



5 A-2 SILL DETAIL – LOUVER
SCALE: 1/4" = 1'-0"



1 A-2 FIRST FLOOR PLAN – DEMOLITION
SCALE: 1/4" = 1'-0"

NOTES:

1. REMOVE ADJUST AND REINSTALL EXISTING ALUM. WINDOW SYSTEM AS REQUIRED FOR INSTALLATION OF NEW FLUE ENCLOSURE. PROVIDE NEW FASTENERS AND OTHER COMPONENTS AS REQUIRED FOR A COMPLETE, FINISHED, INSTALLATION. PROVIDE NEW SEALANT AT ENTIRE PERIMETER

2. REMOVE PORTION OF EXISTING ALUM. WINDOW SYSTEM AS REQUIRED FOR INSTALLATION OF NEW FLUE ENCLOSURE

LEGEND:

- 1 DEMOLITION WORK NOTE – SEE DRAWING A-000-2
- REMOVE FLOOR AREA
- REMOVE WALL
- REMOVE DOOR
- 2 RENOVATION WORK NOTE – SEE DRAWING A-000-2
- NEW CONCRETE SLAB INFILL
- NEW CONCRETE PAD
- NEW WALL (WALL INFILL)
- NEW DOOR – SEE DOOR SCHEDULE

GRAPHIC SCALE
1/4" = 1'-0"
0 2' 4' 8' 12'

N

AS BUILT | NAVSTA# 36007-352

REVISIONS			
REV.	DATE	DESCRIPTION	BY

ARCH. | CIV. STR. | MECH. | PRMGR. | ELEC.

DESIGN/BUILDER: O. AHLBORG & SONS INC.
ADDRESS: 48 MOLTER ST, CRANSTON, RI 02910
DESIGNER OF RECORD FOR FINAL DESIGN:
MACQUIRE GROUP
33 COMMERCIAL ST. SUITE 1, FOXBOROUGH, MA 02035
ESGRI: JAC DRWN: SGB CHK: JAC
SUPV: T. S. BRYDA, P.E.
SUBMITTED BY: (PRELIM) DATE
(SIGNED) (FINAL) DATE

DEPARTMENT OF THE NAVY
NAVAL STATION
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

NAVAL STATION NEWPORT
DSM – DECENTRALIZATION
BOQ BLDG. 0172
FLUE ENCLOSURE PLANS

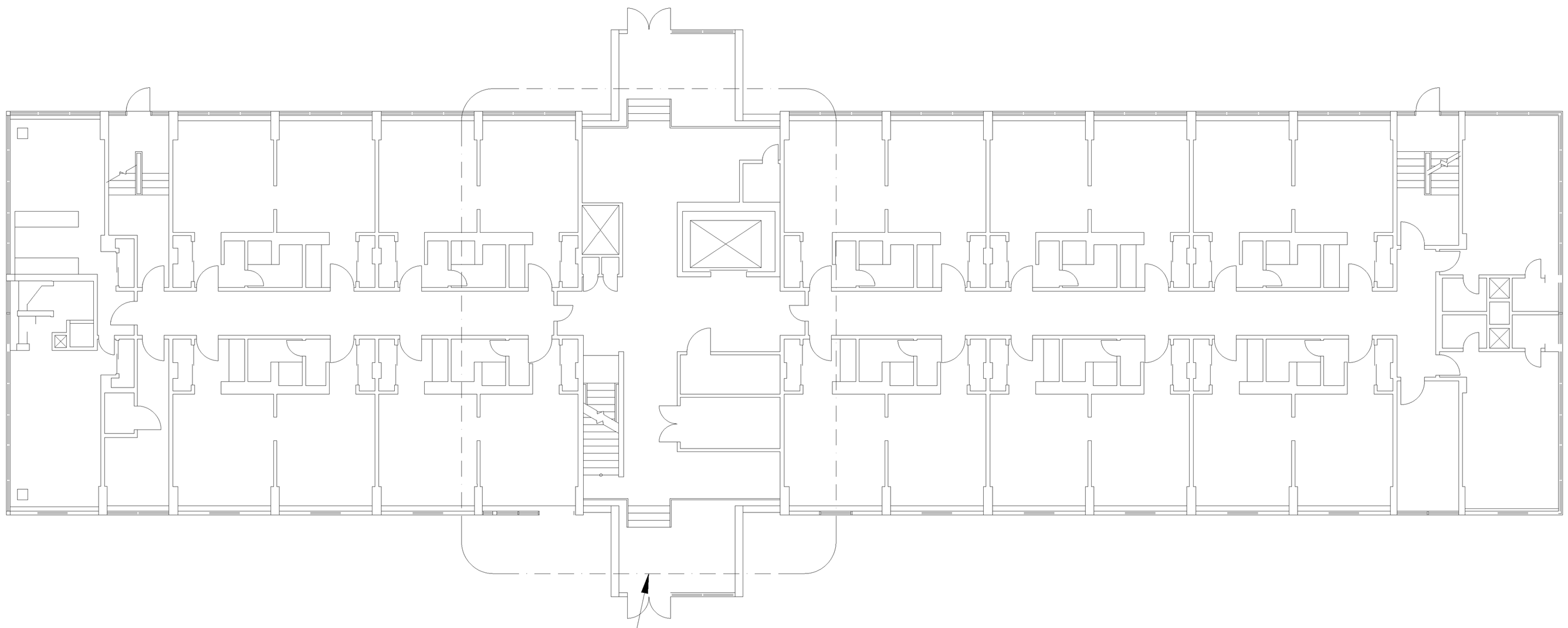
CODE I.D. NO.
DRAWING SIZE: 22x34
CONST. CONT. NO. N62470-97-D-5018 -JN14/08
SPEC.
NAVFAC DRAWING NO. 222 8049
SHEET OF
FIW NO. A-0172-2

AS BUILT | NAVSTA# 36008-352

GRAPHIC SCALE
1/8" = 1'-0"
0 4' 8' 16' 24'

N

1 BLDG. 172 – B.O.Q.
M-1 SCALE: 1/8" = 1'-0"



FIRST FLOOR SHOWN. ACTUAL WORK IS LOCATED IN THIS AREA IN BASEMENT MECHANICAL ROOM. SEE DWG. M-0172-2 AND M-0172-3 FOR ENLARGED MECHANICAL ROOM.

DEPARTMENT OF THE NAVY
NAVAL STATION NEWPORT, R.I.
NAVAL FACILITIES ENGINEERING COMMAND

NAVAL STATION NEWPORT
DSM – DECENTRALIZATION
B.O.Q. BLDG. 172
BUILDING PLAN

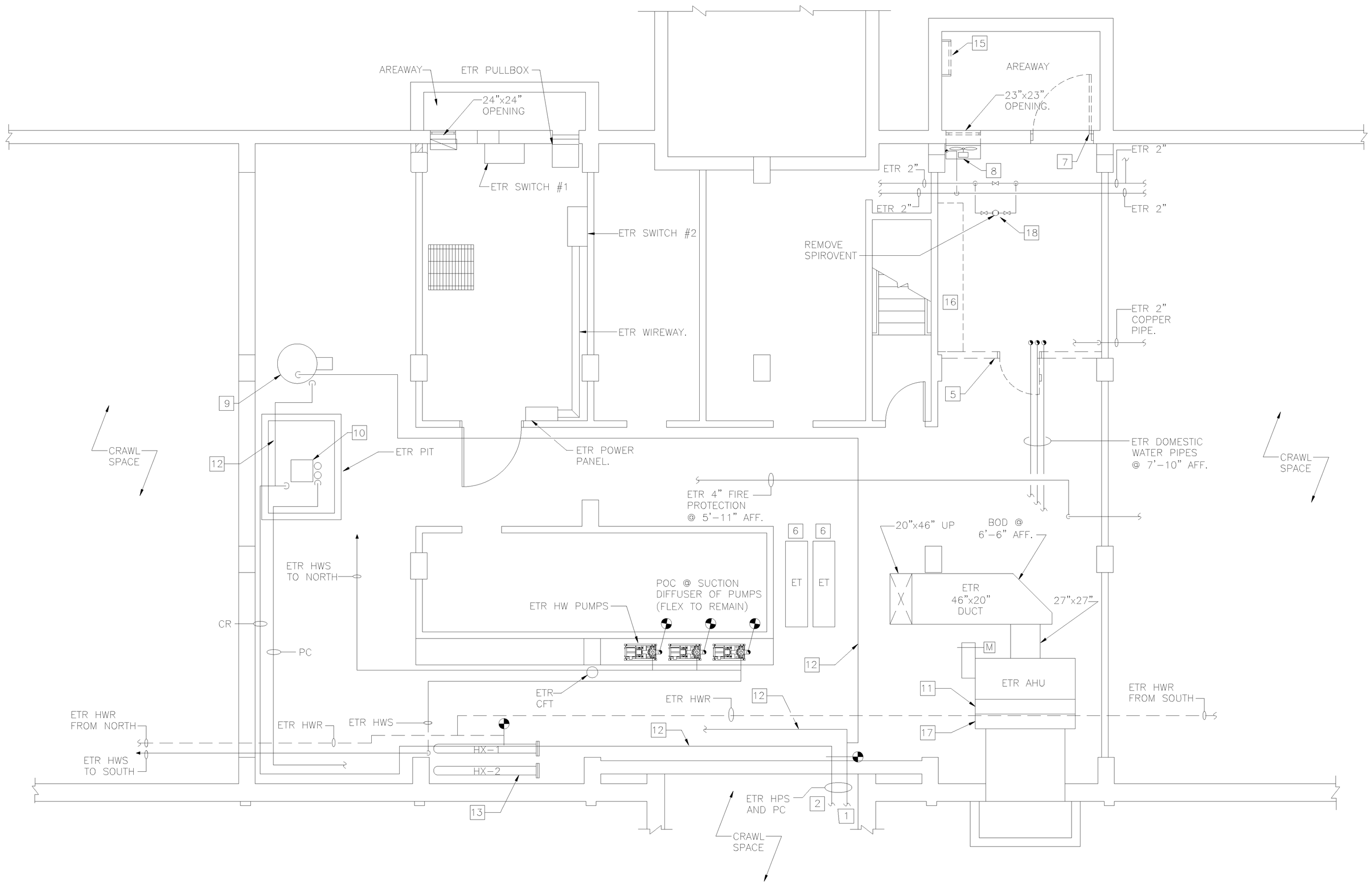
CODE I.D. NO.
DRAWING SIZE: 22x34
CONST. CONT. NO. N62470-97-D-5018 -JN14/08
SPEC.
NAVFAC DRAWING NO. 222 8050
SHEET OF
PW NO. M-0172-1

DESIGN/BUILDER: O. AHLBORG & SONS INC.
ADDRESS: 48 MOLTER ST, CRANSTON, RI 02910
DESIGNER OF RECORD FOR FINAL DESIGN: MAGUIRE GROUP
33 COMMERCIAL ST. SUITE 1, FOXBOROUGH, MA 02035
DSGN: TSB/MMD DRWN: MMD CHK: TSB
SUPV: T. S. BRYDA, P.E.
SUBMITTED BY:
(SIGNED) (TITLE) (DATE)

ARCH. | CIV. STR.
MECH. | PRIMER
ELEC.
SATISFACTORY TO DATE
SATISFACTORY TO DATE
SATISFACTORY TO DATE
HEAD, ENGINEERING BRANCH DATE

REVISIONS

REV.	DATE	DESCRIPTION	BY



1 M-2 ENLARGED MECHANICAL ROOM DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

AS BUILT | NAVSTA# 36009-352

REVISIONS

REV.	DATE	DESCRIPTION	BY

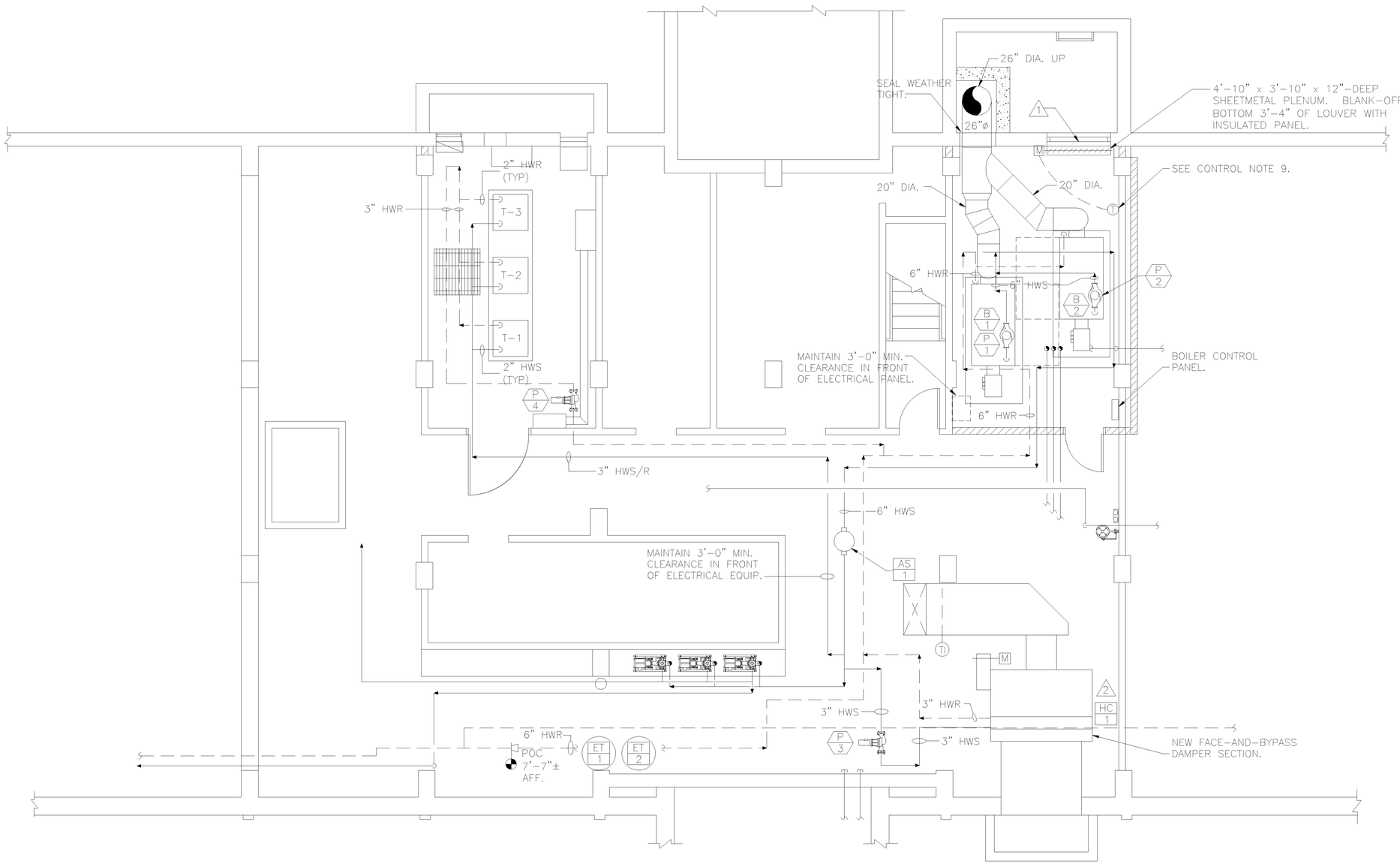
DESIGN/BUILDER: O. AHLBORG & SONS INC.
ADDRESS: 48 MOLTER ST, CRANSTON, RI 02910
DESIGNER OF RECORD FOR FINAL DESIGN:
MAGUIRE GROUP
33 COMMERCIAL ST, SUITE 1, FOXBOROUGH, MA 02035
DSGN: TSB/MMD DRWN: MMD CHK: TSB
SUPV: T. S. BRYDA, P.E.
SUBMITTED BY:
(SIGNED) (TITLE) (DATE)

ARCH. | CIV. STR.
MECH. | PRMGR.
ELEC.
SATISFACTORY TO | DATE
SATISFACTORY TO | DATE
SATISFACTORY TO | DATE
HEAD, ENGINEERING BRANCH | DATE

DEPARTMENT OF THE NAVY
NAVAL STATION
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

NAVAL STATION NEWPORT
DSM - DECENTRALIZATION
B.O.Q. BLDG. 172
ENLARGED PLAN

CODE I.D. NO.
DRAWING SIZE: 22x34
CONST. CONT. NO. N62470-97-D-5018 -JN14/08
SPEC.
NAVFAC DRAWING NO. 222 8051
SHEET OF
PW NO. M-0172-2



1 M-3 ENLARGED MECHANICAL ROOM NEW WORK PLAN
SCALE: 1/4" = 1'-0"

GRAPHIC SCALE
1/4" = 1'-0"
0 2' 4' 8' 12'

N

REV.	DATE	DESCRIPTION	BY

REVISIONS

DESIGN/BUILDER: O. AHLBORG & SONS INC.
ADDRESS: 48 MOLTER ST, CRANSTON, RI 02910
DESIGNER OF RECORD FOR FINAL DESIGN:
MAGUIRE GROUP
33 COMMERCIAL ST, SUITE 1, FOXBOROUGH, MA 02035
DSGN: TSB/MMD DRWN: MMD CHK: TSB
SUPV: T. S. BRYDA, P.E.
SUBMITTED BY:
(SIGNED) (TITLE) (DATE)

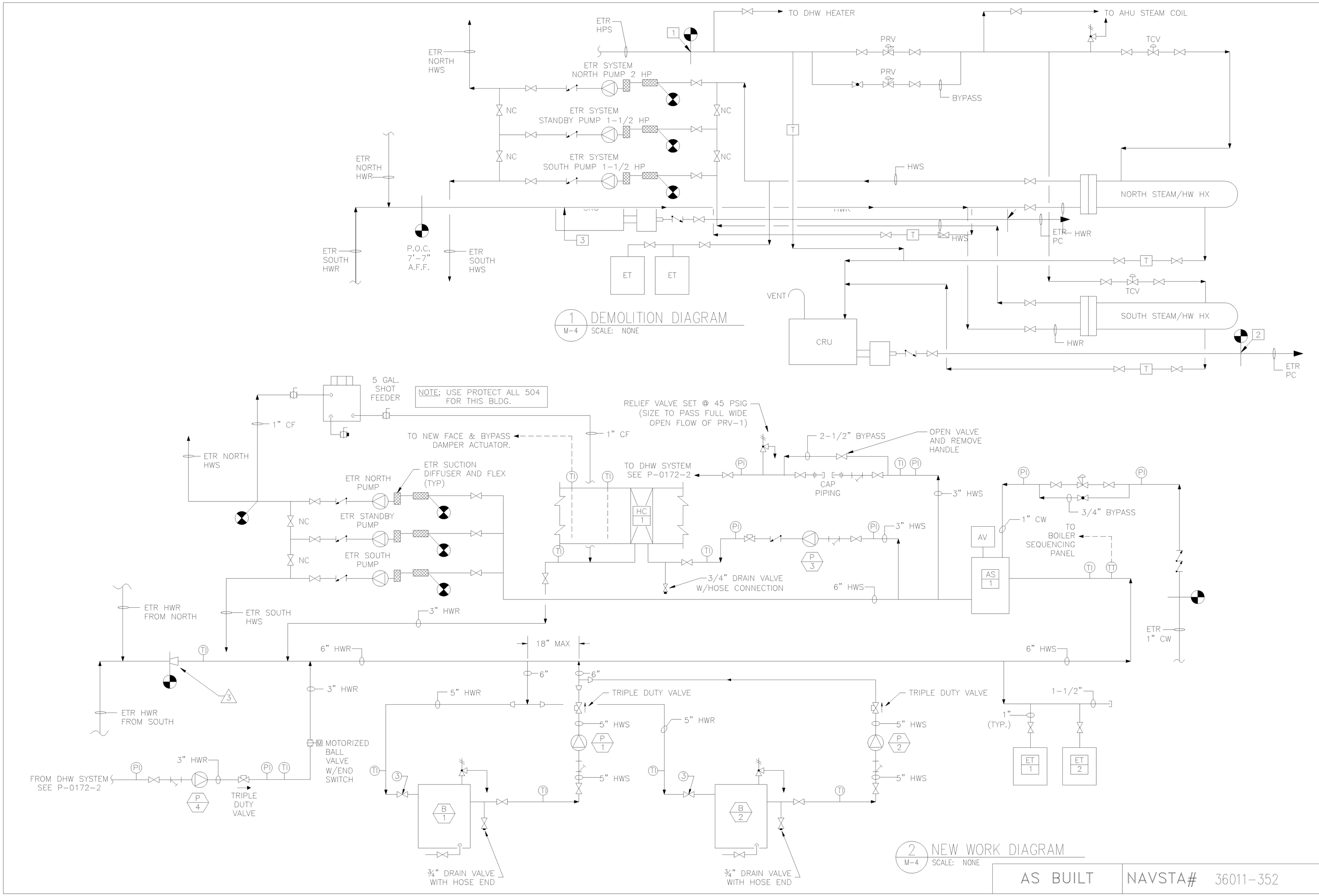
ARCH. CIV. STR.
MECH. PRMGR.
ELEC.
SATISFACTORY TO DATE
SATISFACTORY TO DATE
SATISFACTORY TO DATE
HEAD, ENGINEERING BRANCH DATE

DEPARTMENT OF THE NAVY
NAVAL STATION
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

NAVAL STATION NEWPORT
DSM - DECENTRALIZATION
B.O.Q. BLDG. 172
ENLARGED PLAN

CODE I.D. NO.
DRAWING SIZE: 22x34
CONST. CONT. NO. N62470-97-D-5018 -JN14/08
SPEC.
NAVFAC DRAWING NO. 222 8052
SHEET OF
PW NO. M-0172-3

AS BUILT | NAVSTA# 36010-352



1 M-4 DEMOLITION DIAGRAM
SCALE: NONE

2 M-4 NEW WORK DIAGRAM
SCALE: NONE

AS BUILT | NAVSTA# 36011-352

REVISIONS

REV.	DATE	DESCRIPTION	BY

DESIGN/BUILDER: O. AHLBORG & SONS INC.
ADDRESS: 48 MOLTER ST, CRANSTON, RI 02910
DESIGNER OF RECORD FOR FINAL DESIGN: MAGUIRE GROUP
33 COMMERCIAL ST, SUITE 1, FOXBOROUGH, MA 02035
DSGN: TSB/MMD DRWN: JPB CHK: TSB
SUPV: T. S. BRYDA, P.E.
SUBMITTED BY:
(SIGNED) (TITLE) (DATE)

ARCH. | CIV. STR. | MECH. | PRMGR. | ELEC.
SATISFACTORY TO | DATE
SATISFACTORY TO | DATE
SATISFACTORY TO | DATE
HEAD, ENGINEERING BRANCH | DATE

DEPARTMENT OF THE NAVY
NAVAL STATION
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

NAVAL STATION NEWPORT
DSM - DECENTRALIZATION
B.O.Q. BLDG. 172
FLOW DIAGRAMS

CODE I.D. NO.
DRAWING SIZE: 22x34
CONST. CONT. NO. N62470-97-D-5018 -JN14/08
SPEC.
NAVFAC DRAWING NO. 222 8053
SHEET OF
PW NO. M-0172-4

STANDARD DEMOLITION NOTES:

1. CUT AND CAP EXISTING HIGH PRESSURE STEAM LINE AT ENTRANCE TO BUILDING.
2. CUT AND CAP PUMPED CONDENSATE LINE AT ENTRANCE TO BUILDING.
3. WORK SHOWN IN DARK LINE IS TO BE REMOVED. DEMOLITION WORK INCLUDES ALL PIPING, HANGERS, AND RELATED EQUIPMENT FOR ITEMS DESIGNATED.
4. WORK SHOWN IN LIGHT LINE IS EXISTING TO REMAIN (ETR).

SPECIFIC DEMOLITION NOTES:

5. REMOVE WALL. SEE ARCHITECTURAL DWGS.
6. REMOVE EXPANSION TANKS.
7. REMOVE DOOR. SEE ARCHITECTURAL DWGS.
8. REMOVE LOUVER AND FAN.
9. REMOVE DHW HEATER.
10. REMOVE CRU IN PIT.
11. REMOVE STEAM COIL IN AHU.
12. REMOVE ALL STEAM AND CONDENSATE PIPING BEYOND CUT/CAP POINTS. CAP SAFETY VALVE DISCHARGES ON ROOF.
13. REMOVE STEAM/HW HX (2).
14. NOT USED
15. RELOCATE LADDER.
16. REMOVE WORKBENCH SEE ARCH. DWG.
17. REMOVE 11"-WIDE BYPASS DAMPER SECTION, INCLUDING ACTUATOR.
18. REMOVE SPIROVENT UNIT AND VALVES. PROVIDE BLIND FLANGE.
19. REMOVE OUTDOOR AIR RESET CONTROLLERS.

STANDARD NEW WORK NOTES:

1. WORK SHOWN IN DARK LINE IS NEW.
2. WORK SHOWN IN LIGHT LINE IS EXISTING TO REMAIN (ETR).
3. THIS SYMBOL REPRESENTS A SHUTOFF VALVE. USE GATE VALVES FOR STEAM AND CONDENSATE SERVICE. USE BALL VALVES FOR 2" AND BELOW AND BUTTERFLY VALVES FOR 2½" AND ABOVE FOR HW SERVICE. USE TRIPLE DUTY VALVES IN LIEU OF CHECK AND BALANCE VALVES AT ALL BASE MOUNTED PUMPS.
4. BREECHING AND CHIMNEY MATERIALS SHALL BE STAINLESS STEEL, INNER LINER, ALUMINIZED STEEL OUTER JACKET, 1" AIR GAP, METALBESTOS MODEL PS OR EQUAL. PROVIDE EXIT CONE AND DRAIN SECTION ON ALL CHIMNEYS. PROVIDE BAROMETRIC DAMPER FOR EACH BOILER.
5. ALL EXISTING PIPING SIZES SHALL BE FIELD VERIFIED BY CONTRACTOR.
6. NOT USED.
7. NOT USED.
8. PROVIDE 4" THICK CONCRETE PAD FOR ALL NEW FLOOR MOUNTED EQUIPMENT.
9. ABATEMENT OF ASBESTOS CONTAINING MATERIALS AND/OR LEAD BASED PAINT SHALL BE IN ACCORDANCE WITH THE FINDINGS OF THE ASBESTOS REPORT AND APPLICABLE DIVISION 13 SPECIFICATION SECTIONS AND ALL GOVERNING AUTHORITIES WITH JURISDICTION.
10. ALL EXISTING PENETRATIONS AND OPENINGS THRU THE BOILER ROOM SHALL BE SEALED WITH FIRESTOP MATERIAL. THIS INCLUDES PIPING, CONDUIT, ETC. NEW PENETRATIONS SHALL BE SEALED WITH UL APPROVED/LISTED ASSEMBLY.
11. NOT USED.
12. INSTALL ALL PIPING SO AS NOT TO INTERFERE WITH ACCESS TO EQUIPMENT MAINTENANCE AREAS.
13. REPLACE ALL EXISTING EXPANSION TANKS WITH NEW BALDDER STYLE.
14. PROVIDE MANUAL BYPASS AT ALL PRV'S AND CONTROL VALVES.
15. NOT USED.
16. PROVIDE TRIPLE DUTY VALVE AT DISCHARGE OF ALL PUMPS.

SPECIFIC NEW WORK NOTES:

1. PROVIDE NEW LOUVER. SEE ARCHITECTURAL DWGS.
2. PROVIDE NEW HW COIL IN AHU W/FACE AND BYPASS SECTION AND ACTUATOR.
3. TRANSITION FROM EXISTING PIPING TO 6" AS SHOWN.

CONTROL NOTES:

1. BOILER IS ENABLED VIA BOILER SEQUENCING PANEL. LEAD BOILER SHOULD ALWAYS BE ENABLED; LAG BOILER SHOULD BE ENABLED WHEN HWS TEMPERATURE DROPS BELOW SETPOINT.
2. INTERLOCK P-1/P-2 WITH RESPECTIVE BOILER.
3. EXISTING HW PUMPS SHALL MAINTAIN CURRENT OPERATION.
4. BURNER(S) SHALL FIRE TO MAINTAIN HWS SETPOINT IN ACCORDANCE WITH O.A. RESET SCHEDULE. (SEE NOTE 10)
5. PUMP P-3 RUNS CONSTANTLY WHEN O.A. TEMPERATURE IS BELOW 55°F (ADJUSTABLE).
6. PUMP P-4 SHALL CYCLE ON/OFF TO MAINTAIN DHW SETPOINT AT INDIRECT HEATERS.
7. NOT USED
8. NEW DUCT TEMPERATURE TRANSMITTER MODULATES AHU FACE & BYPASS DAMPER TO MAINTAIN LAT OF 70°F (ADJUSTABLE).
9. PROVIDE T'STAT TO OPEN DAMPER UPON A CALL FOR COOLING. WHEN BOILER STARTS, DAMPER SHALL ALSO OPEN.

BOILER SCHEDULE (B)

TAG No.	BASIS OF DESIGN MFR.	BASIS OF DESIGN MODEL No.	GAS INPUT (MBH)	NET IBR OUTPUT (MBH)	FLUE SIZE	BLOWER MOTOR HP	ELECTRICAL V-PH-HZ	REMARKS
B-1-0172	WEIL-MCLAIN	BG-988W	2497	1732	14"	2	208/3/60	①②③④
B-2-0172	WEIL-MCLAIN	BG-988W	2497	1732	14"	2	208/3/60	①②③④

① PROVIDE WITH FULLY MODULATING BURNER.
② PROVIDE GAS PRESSURE REGULATOR
③ PROVIDE WITH UL/CSD-1 GAS TRAIN
④ PROVIDE BOILER SEQUENCING VIA FIREYE E340. TIE FAILURE, STATUS, AND ALARM SIGNALS INTO BUILDING AUTOMATION SYSTEM (BAS).

PUMP SCHEDULE (P)

TAG No.	BASIS OF DESIGN MFGR.	BASIS OF DESIGN MOD. NO.	STYLE	DESIGN POINT GPM	DESIGN POINT HEAD (FT)	MOTOR BHP	MOTOR MTR HP	MOTOR RPM	MOTOR V-PH-HZ	REMARKS
P-1-0172	TACO	KV-4007	INLINE	205	20	1.5	2	1160	208/3/60	
P-2-0172	TACO	KV-4007	INLINE	205	20	1.5	2	1160	208/3/60	
P-3-0172	TACO	1630	INLINE	95	14		1/2	1750	115/1/60	
P-4-0172	TACO	KV-1509	INLINE	90	60	2.5	3.0	1760	208/3/60	

HEATING COIL SCHEDULE (HC)

TAG No.	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	HOT WATER COIL DATA CFM	MBH	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	GPM	APD (IN.W.G.)	REMARKS
HC-1-0172	TRANE	–	9000	729	9	84	180	165	25	–	① ② ③④

① EXISTING AHU IS TRANE MODEL TBDB17AL0C3DRR00.
② EXISTING STEAM HEATING COIL IS 14"-WIDE x 33"-HIGH x 90"-LONG.
③ PROVIDE NEW FACE-AND-BYPASS DAMPER SECTION WITH ACTUATOR.
④ PROVIDE PRE AND POST TAB MEASUREMENTS OF COIL AIRFLOW, EAT, LAT, MOTOR AMPS, ETC.

EXPANSION TANK SCHEDULE (ET)

TAG No.	SYSTEM	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL NO.	TYPE	GALS.	ACCEPT. VOL.	SYSTEM EXPANSION VOLUME	CHARGE PRESSURE (PSIG)	HGT.	TANK ø	REMARKS
ET-1-0172	HW	TACO	CA-600	BLADDER	158	158	300	25	74"	30"	
ET-2-0172	HW	TACO	CA-600	BLADDER	158	158	300	25	74"	30"	

10. HW RESET SCHEDULE

BOILER TEMP.	O.A. TEMP
200°F	15°F
160°F	55°F

DHW SHALL BE PRIORITIZED AS FOLLOWS:

WHEN THERE IS A CALL TO RAISE THE DHW TEMPERATURE WITHIN THE INDIRECT HEATERS TO MAINTAIN SET POINT, THE DHW PUMP SHALL BE ENERGIZED. IF AFTER 5 MINUTES (ADJUSTABLE), THE DHW HAS NOT ATTAINED SET POINT TEMP., THE BOILER HW SHALL REVERT BACK TO 200°. ONCE INDIRECTS ARE SATISFIED BOILERS SHALL REVERT BACK TO RESET SCHEDULE.

AS BUILT | NAVSTA# 36012-352

REVISIONS

REV.	DATE	DESCRIPTION	BY

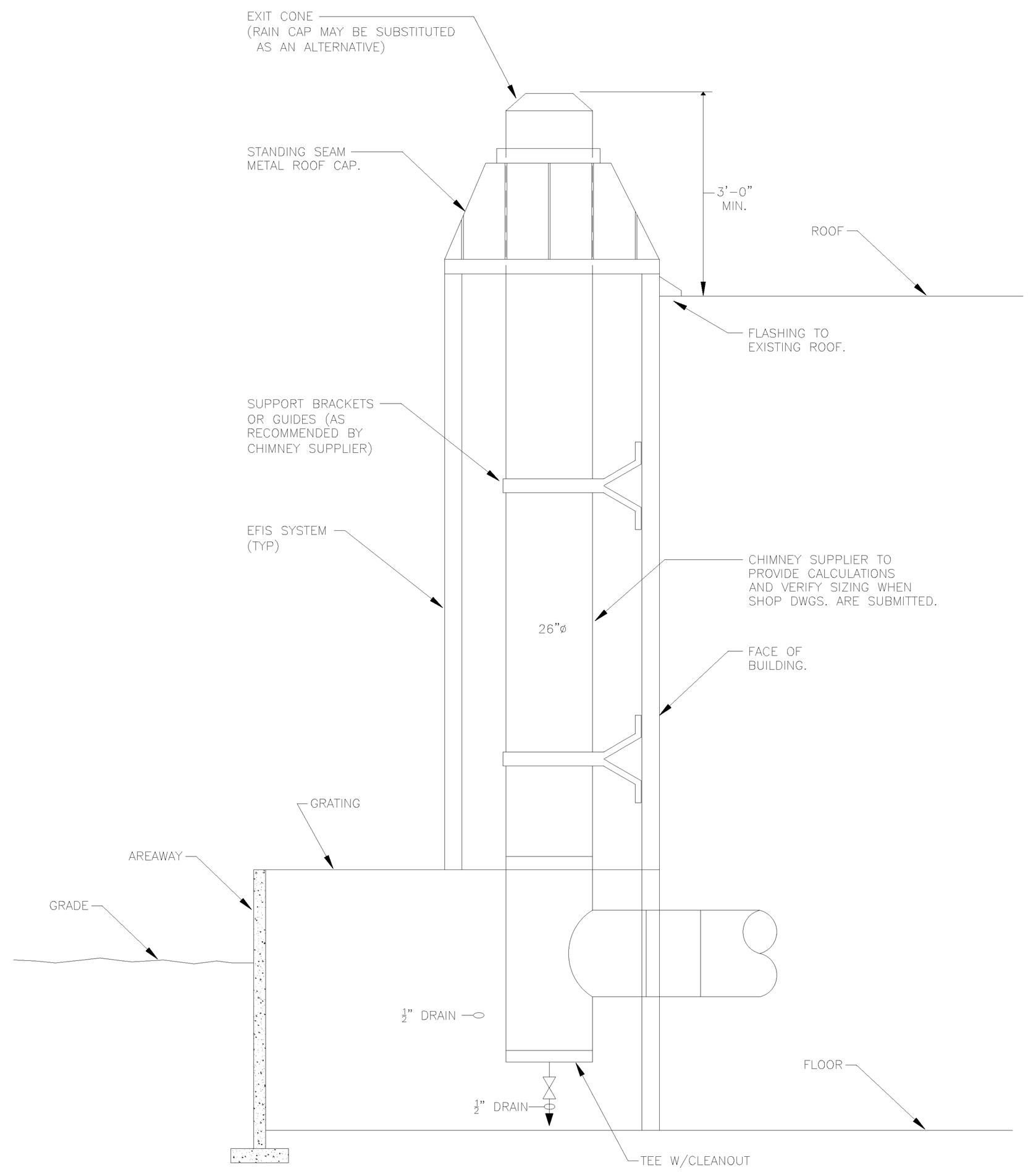
DESIGN/BUILDER: O. AHLBORG & SONS INC.
ADDRESS: 48 MOLTER ST, CRANSTON, RI 02910
DESIGNER OF RECORD FOR FINAL DESIGN:
MACQUIRE GROUP
33 COMMERCIAL ST. SUITE 1, FOXBOROUGH, MA 02035
DSGN: TSB/MMD DRWN: JPB CHK: TSB
SUP'V: T. S. BRYDA, P.E.
SUBMITTED BY: (TITLE) (DATE)

ARCH. DIV. STR.
MECH. PRMGR.
ELEC. DATE
SATISFACTORY TO DATE
SATISFACTORY TO DATE
SATISFACTORY TO DATE
HEAD, ENGINEERING BRANCH DATE

DEPARTMENT OF THE NAVY
NAVAL STATION
NAVAL FACILITIES ENGINEERING COMMAND
NEWPORT, R.I.

NAVAL STATION NEWPORT
DSM - DECENTRALIZATION
B.O.Q. BLDG. 172
NOTES & SCHEDULES

CODE I.D. NO.
DRAWING SIZE: 22x34
CONST. CONT. NO. N62470-97-D-5018 -JN14/08
SPEC.
NAVFAC DRAWING NO. 222 8054
SHEET OF
PW NO. M-0172-5



1 M-6 CHIMNEY DETAIL
NO SCALE

AS BUILT | NAVSTA# 36013-352

DESIGN/BUILDER: O. AHLBORG & SONS INC.
ADDRESS: 48 MOLTER ST, CRANSTON, RI 02910
DESIGNER OF RECORD FOR FINAL DESIGN:
MAGUIRE GROUP
33 COMMERCIAL ST, SUITE 1, FOXBOROUGH, MA 02035
DSGN: TSB/MMD DRWN: MMD CHK: TSB
SUPV: T. S. BRYDA, P.E.
SUBMITTED BY:
(SIGNED) (TITLE) (DATE)

ARCH. | OV. STR.
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ELEC.
SATISFACTORY TO | DATE
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SATISFACTORY TO | DATE
HEAD, ENGINEERING BRANCH | DATE

REV. | DATE | DESCRIPTION | BY
REVISIONS

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NAVAL STATION NEWPORT
DSM - DECENTRALIZATION
B.O.Q. BLDG. 172
CHIMNEY DETAIL

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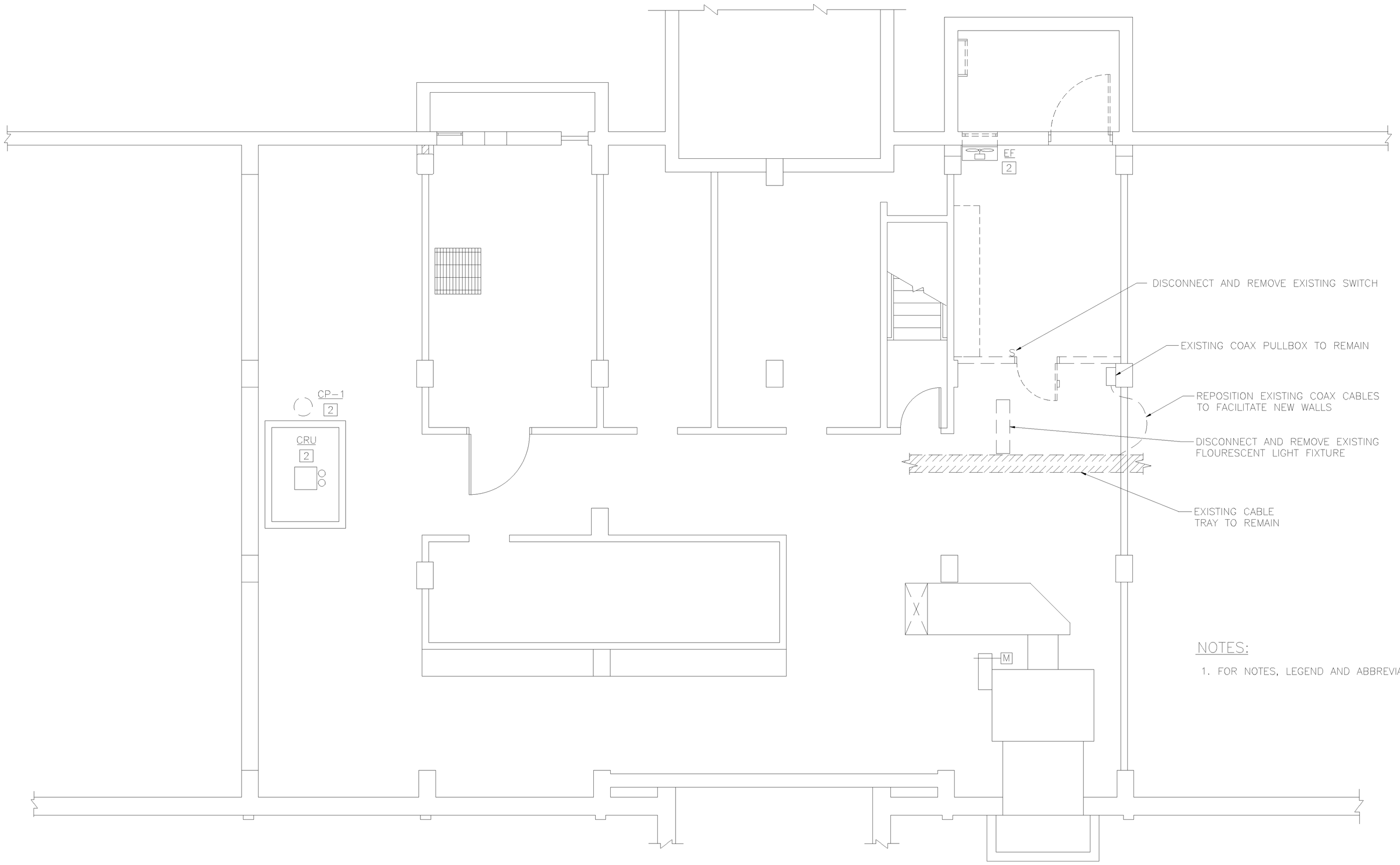
N62470-97-D-5018
-JN14/08
SPEC.
NAVFAC DRAWING NO.
222 8055
SHEET OF
PW NO.
M-0172-6



NOTES:

1. FOR NOTES, LEGEND AND ABBREVIATIONS, SEE DRAWING E-000-1.

1 E-1 ELECTRICAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

GRAPHIC SCALE
1/4" = 1'-0"
0 2' 4' 8' 12'

N

AS BUILT | NAVSTA# 36014-352

REV.	DATE	DESCRIPTION	BY

REVISIONS

DESIGN/BUILDER: O. AHLBORG & SONS INC.
ADDRESS: 48 MOLTER ST, CRANSTON, RI 02910
DESIGNER OF RECORD FOR FINAL DESIGN:
MAGUIRE GROUP
33 COMMERCIAL ST, SUITE 1, FOXBOROUGH, MA 02035
DSGN: DRWN: CHK:
SUPV: T. S. BRYDA, P.E.
SUBMITTED BY:
(SIGNED) (TITLE) (DATE)

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ELEC.
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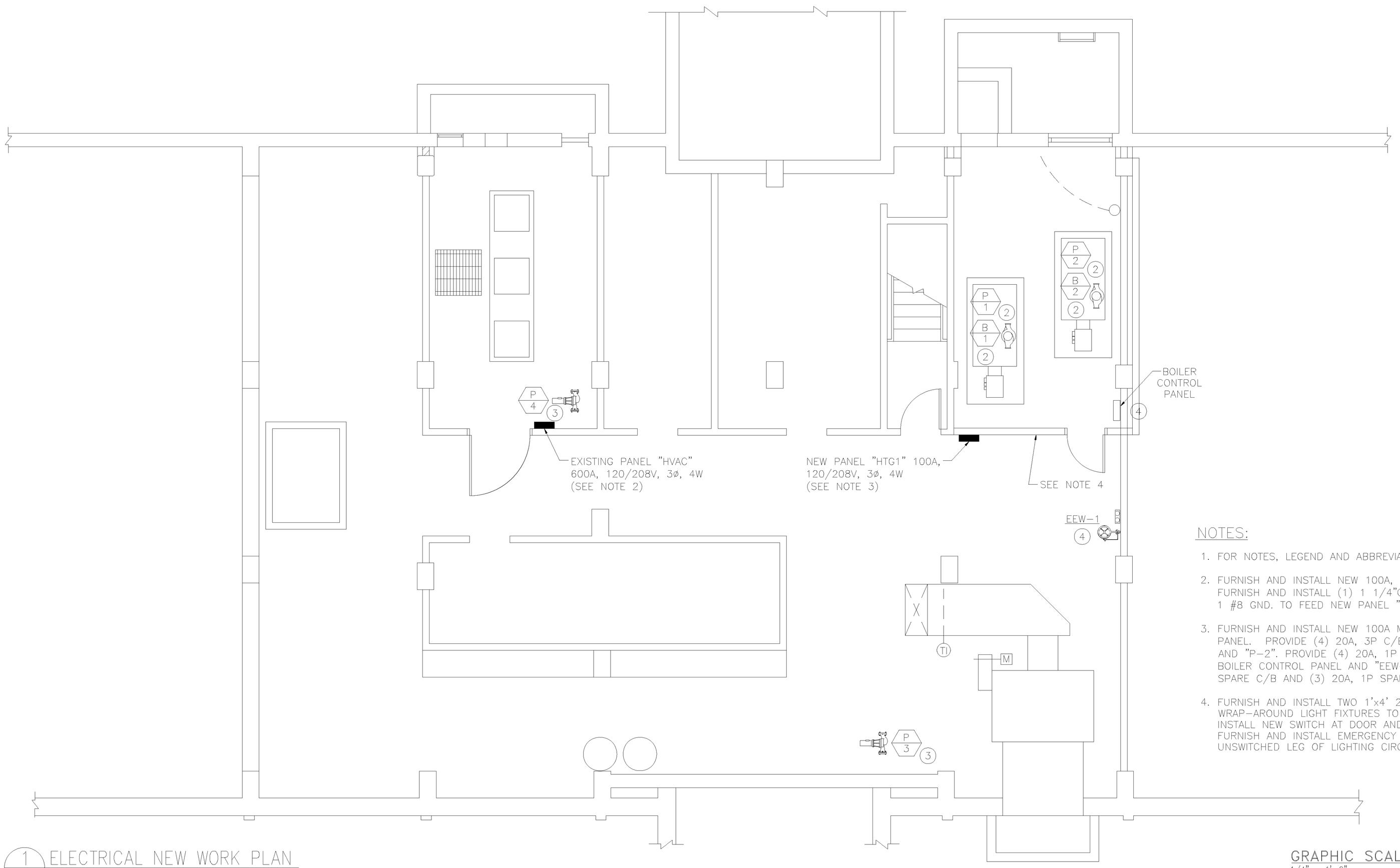
NAVAL STATION NEWPORT
DSM - DECENTRALIZATION
B.O.Q. BLDG. 172
ELECTRICAL DEMOLITION PLAN

CODE I.D. NO.
DRAWING SIZE: 22x34
CONST. CONT. NO.
N62470-97-D-5018
-JN14/08
SPEC.
NAVFAC DRAWING NO.
222 8056
SHEET OF
PW NO.
E-0172-1



1 E-2 ELECTRICAL NEW WORK PLAN
SCALE: 1/4" = 1'-0"

NOTES:

1. FOR NOTES, LEGEND AND ABBREVIATIONS, SEE DRAWING E-000-1.
2. FURNISH AND INSTALL NEW 100A, 3P C/B IN EXISTING SPACE. FURNISH AND INSTALL (1) 1 1/4"C-4 #3, 1 #8 GND. TO FEED NEW PANEL "HTG1".
3. FURNISH AND INSTALL NEW 100A MCB, 120/208V, 3ø, 4W, 30P PANEL. PROVIDE (4) 20A, 3P C/B'S FOR "B-1", "B-2", "P-1" AND "P-2". PROVIDE (4) 20A, 1P C/B'S FOR "P-3", "P-4" BOILER CONTROL PANEL AND "EEW-1". PROVIDE (1) 20A, 3P SPARE C/B AND (3) 20A, 1P SPARE C/B'S.
4. FURNISH AND INSTALL TWO 1'x4' 2-LAMP FLUORESCENT WRAP-AROUND LIGHT FIXTURES TO MATCH EXISTING. FURNISH AND INSTALL NEW SWITCH AT DOOR AND CONNECT TO EXISTING CIRCUIT. FURNISH AND INSTALL EMERGENCY BATTERY UNIT AND CONNECT TO UNSWITCHED LEG OF LIGHTING CIRCUIT.

GRAPHIC SCALE
1/4" = 1'-0"
0 2' 4' 8' 12'

N

AS BUILT | NAVSTA# 36015-352

REV.	DATE	DESCRIPTION	BY

REVISIONS

DESIGN/BUILDER: O. AHLBORG & SONS INC.
ADDRESS: 48 MOLTER ST, CRANSTON, RI 02910
DESIGNER OF RECORD FOR FINAL DESIGN:
MAGUIRE GROUP
33 COMMERCIAL ST, SUITE 1, FOXBOROUGH, MA 02035
DSGN: DRWN: CHK:
SUPV: T. S. BRYDA, P.E.
SUBMITTED BY: (TITLE) (DATE)

ARCH. | CIV. STR.
MECH. | PRMGR.
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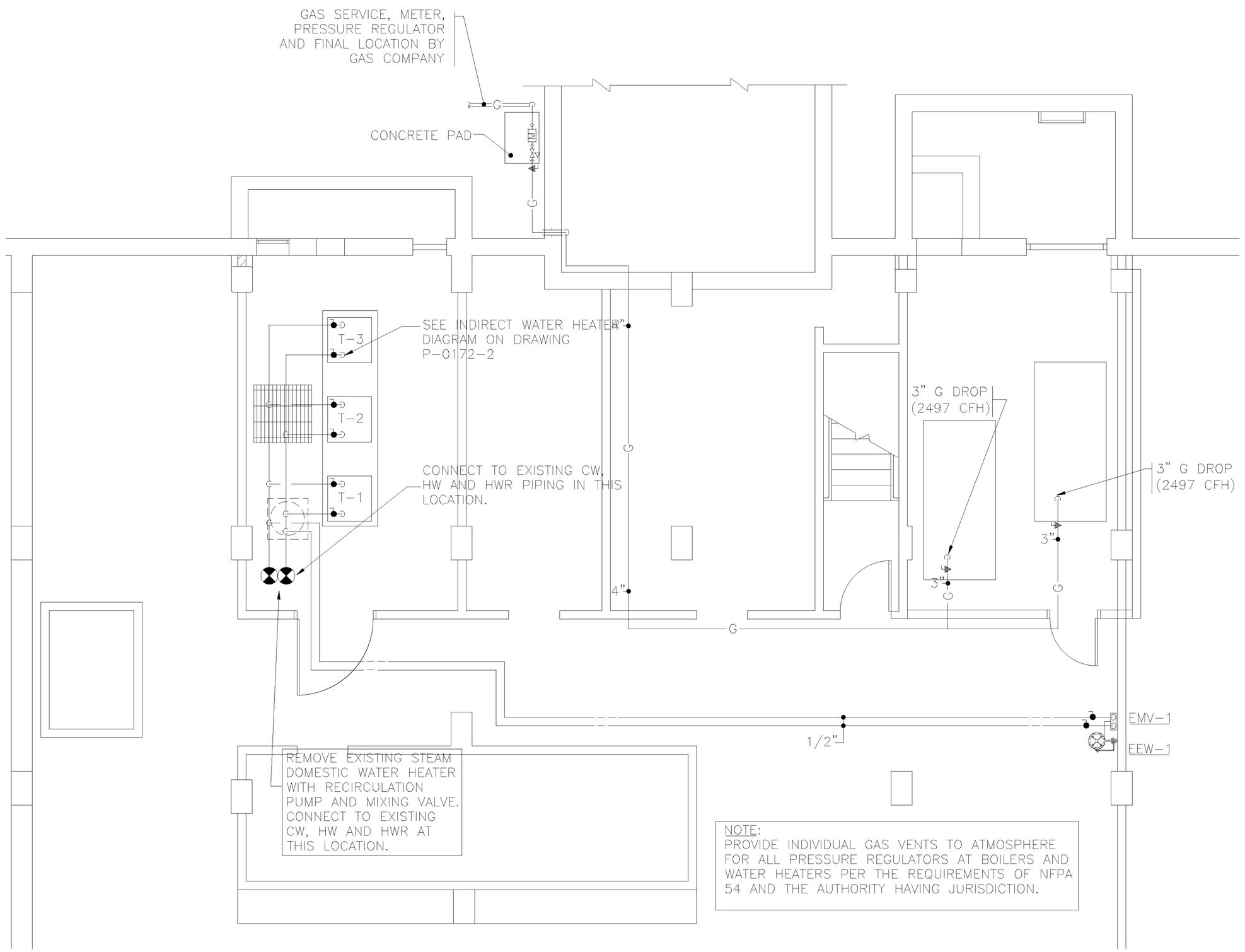
NAVAL STATION NEWPORT
DSM - DECENTRALIZATION
B.O.Q. BLDG. 172
ELECTRICAL NEW WORK PLAN

CODE I.D. NO.
DRAWING SIZE: 22x34
CONST. CONT. NO.
N62470-97-D-5018
-JN14/08
SPEC.
NAVFAC DRAWING NO.
222 8057
SHEET OF
PW NO.
E-0172-2



NOTE:
PROVIDE INDIVIDUAL GAS VENTS TO ATMOSPHERE FOR ALL PRESSURE REGULATORS AT BOILERS AND WATER HEATERS PER THE REQUIREMENTS OF NFPA 54 AND THE AUTHORITY HAVING JURISDICTION.

1 P-1 MECHANICAL ROOM PLUMBING PLAN
SCALE: 1/4" = 1'-0"

PLUMBING LEGEND

GENERAL

		CAP OR END OF PIPE
	CONT	CONTINUATION
	DN	ELBOW DOWN OR DROP
		ELBOW UP OR RISE
		FLOW DIRECTION
	GWH-#	GAS WATER HEATER
	NTS	NOT TO SCALE
		TEE LOOKING DOWN
		TEE LOOKING UP
	TYP	TYPICAL
		UNION

WATER

	CW	COLD WATER
	HW	HOT WATER
	HWR	HOT WATER RETURN
W	W	WATER SERVICE (BURIED)

VALVES

		BALL VALVE
		CHECK VALVE
		GATE VALVE
	TG	TEMPERATURE GAUGE
	T&P	TEMP. & PRESSURE RELIEF

* NOTE: NOT ALL SYMBOLS MAY BE APPLICABLE TO THIS PROJECT

INDIRECT WATER HEATER SCHEDULE

LABEL	TEMP. SETTING	RECOVERY RATE	RECOVERY DEG. RISE	GAS INPUT (CFH)	ELECTRIC	MANUFACTURER AND MODEL
T-1,2,3,	140°F	650 GPH EACH-1950 GPH TOTAL	50° - 140°F	-	-	WEIL McLAIN PLUS 120

* NOTE: THE EXISTING FIRE PROTECTION SPRINKLER SYSTEM CURRENTLY EXCEEDS THE REQUIREMENTS FOR BOILER ROOM COVERAGE (AREA/DENSITY). NO MODIFICATIONS WILL BE REQUIRED FOR THE EXISTING FIRE PROTECTION SPRINKLER SYSTEM.

PLUMBING FIXTURE SCHEDULE

LABEL	DESCRIPTION	FIXTURE	FITTING	REMARKS
EMV-1	EMERGENCY EYEWASH TEMPERING VALVE	AMOT	THERMOSTATIC MIXING VALVE	EXPOSED ON WALL TO SUPPLY TEMPERED WATER TO EMERGENCY EYEWASH FIXTURE.
EEW-1	EMERGENCY EYEWASH UNIT	GUARDIAN MODEL # G1760	GUARDIAN MODEL AP275-100	EMERGENCY EYE/FACEWASH UNIT COMPLETE WITH LIGHT, ALARM HORN, AND FLOW SWITCH ASSEMBLY.

GRAPHIC SCALE
1/4" = 1'-0"
0 2' 4' 8' 12'

N

AS BUILT | NAVSTA# 36016-352

REVISIONS

REV.	DATE	DESCRIPTION	BY

DESIGN/BUILDER: O. AHLBORG & SONS INC.
ADDRESS: 48 MOLTER ST, CRANSTON, RI 02910
DESIGNER OF RECORD FOR FINAL DESIGN:
MARQUIRE GROUP
33 COMMERCIAL ST, SUITE 1, FOXBOROUGH, MA 02035
DSGN: DJS DRWN: DJS CHK: IAP
SUPV: T. S. BRYDA, P.E.
SUBMITTED BY:
(SIGNED) (TITLE) (DATE)

ARCH. | CIV. STR. | MECH. | PRMGR. | ELEC.
SATISFACTORY TO | DATE
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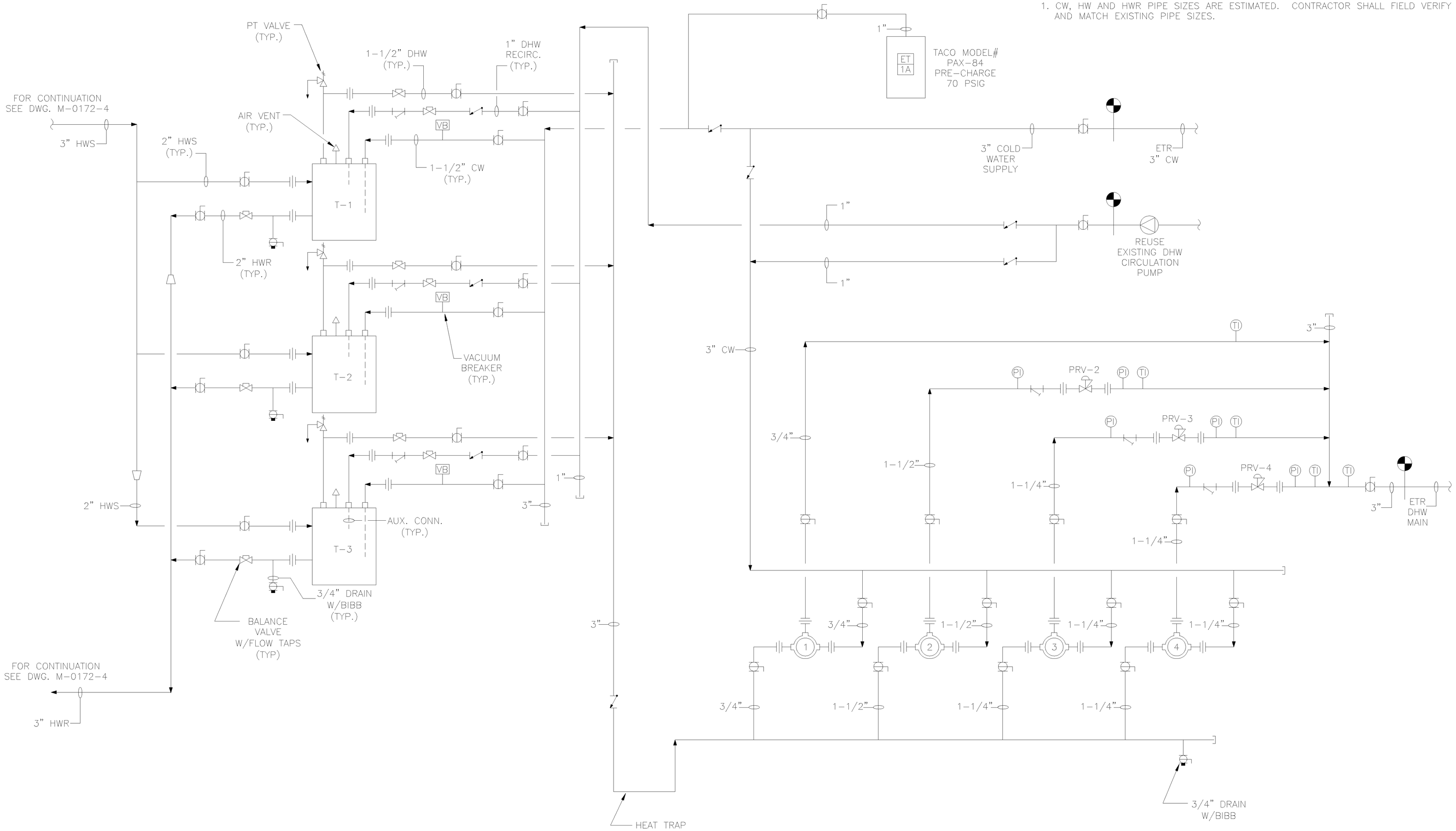
NAVAL STATION NEWPORT
DSM - DECENTRALIZATION
B.O.Q. BLDG. 172
PLUMBING PLAN

CODE I.D. NO.
DRAWING SIZE: 22x34
CONST. CONT. NO. N62470-97-D-5018 -JN14/08
SPEC.
NAVFAC DRAWING NO. 222 8058
SHEET OF
PW NO. P-0172-1

NOTES:

1. CW, HW AND HWR PIPE SIZES ARE ESTIMATED. CONTRACTOR SHALL FIELD VERIFY AND MATCH EXISTING PIPE SIZES.



1 / P-2 INDIRECT WATER HEATER DIAGRAM
SCALE: NONE

AMOT VALVE ①	MODEL NO. 3/4 JOBT-120-01-RBM	
AMOT VALVE ②	MODEL NO. 1-1/2 CMBT-120-01	
AMOT VALVE ③	MODEL NO. 1-1/4 CCMCT-120-01	
AMOT VALVE ④	MODEL NO. 1-1/4 CCMCT-120-01	

PRV-2	SPENCE, 5-100 PSIG, 35 GPM 100 PSI SPRINGS REQUIRED.
PRV-3	SPENCE, 5-75 PSIG, 60 GPM
PRV-4	SPENCE, 5-75 PSIG, 60 GPM

NOTE: SET PRV'S @ 3 PSIG ± APART

AS BUILT | NAVSTA# 36017-352

REVISIONS

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MECH.	PRNDR.	
ELEC.		
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ADDRESS: 48 MOLTER ST, CRANSTON, RI 02910
DESIGNER OF RECORD FOR FINAL DESIGN:
MACQUIRE GROUP
33 COMMERCIAL ST, SUITE 1, FOXBOROUGH, MA 02035
ESCRI: DRWN: CHK:
SUPV: T. S. BRYDA, P.E.
SUBMITTED BY: (TITLE) (DATE)
(SIGNED)

DEPARTMENT OF THE NAVY
NAVAL STATION

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NEWPORT, R.I.

NAVAL STATION NEWPORT
DSM - DECENTRALIZATION
B.O.Q. BLDG. 172
PLUMBING FLOW DIAGRAM

CODE I.D. NO.
DRAWING SIZE: 22x34
CONST. CONT. NO. N62470-97-D-5018 -JN14/08
SPEC.
NAVFAC DRAWING NO. 222 8059
SHEET OF
PW NO. P-0172-2