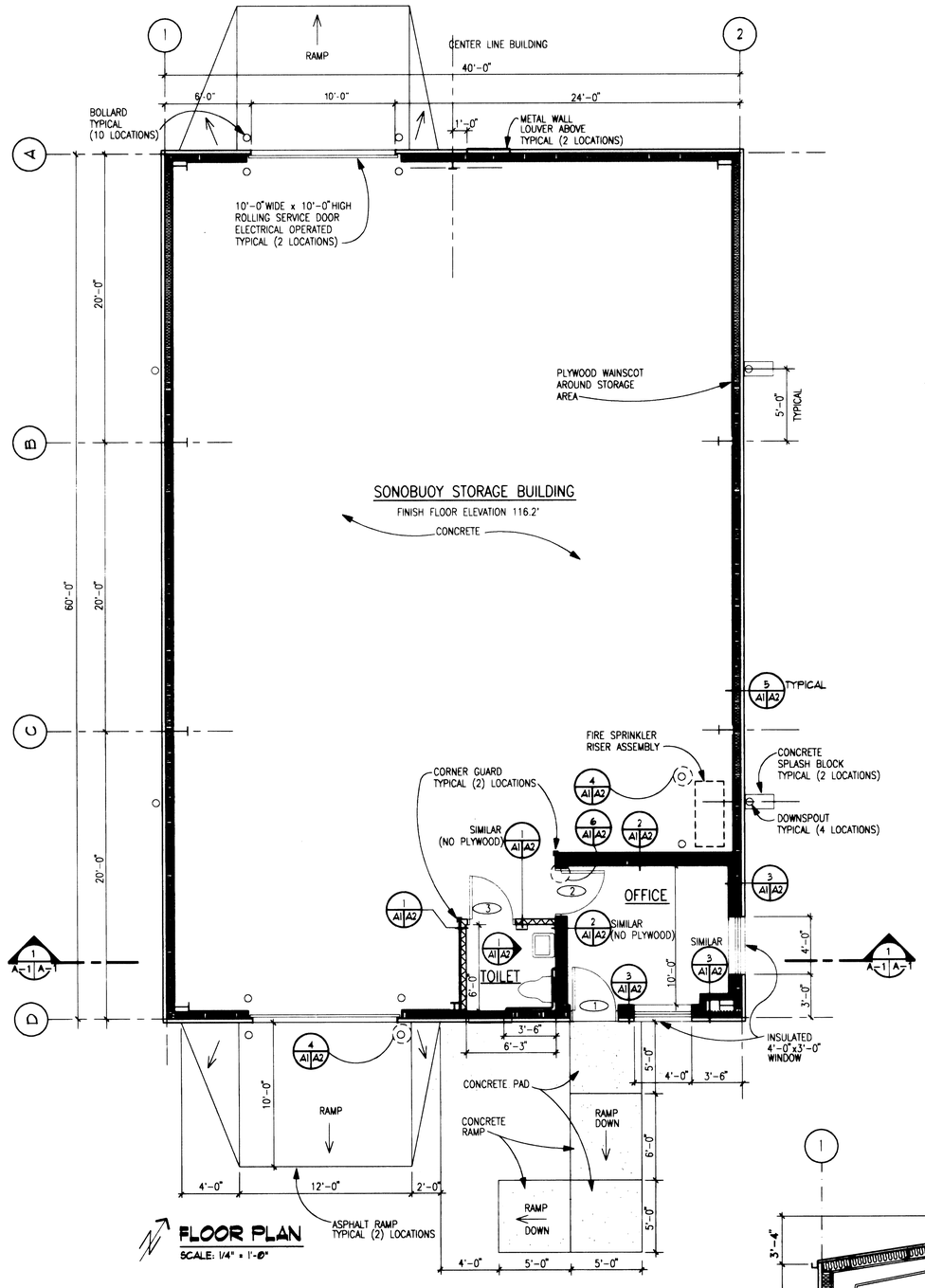
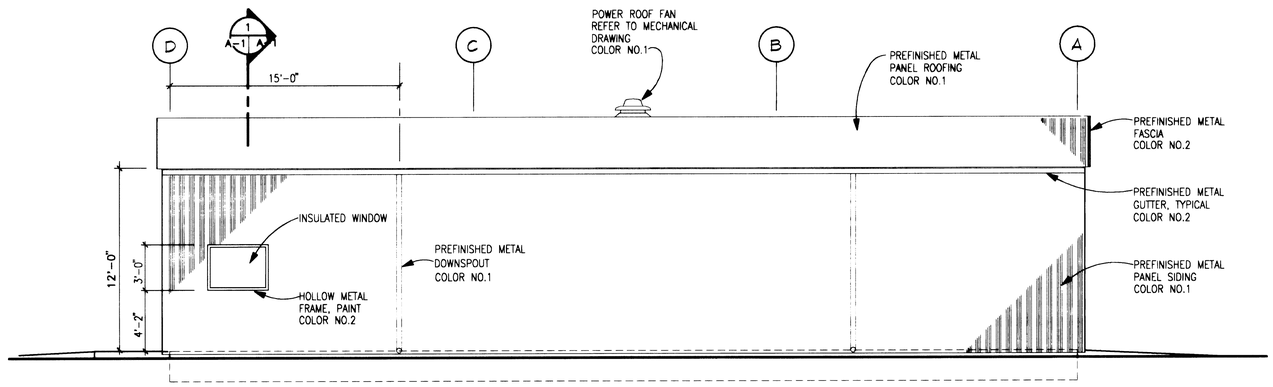


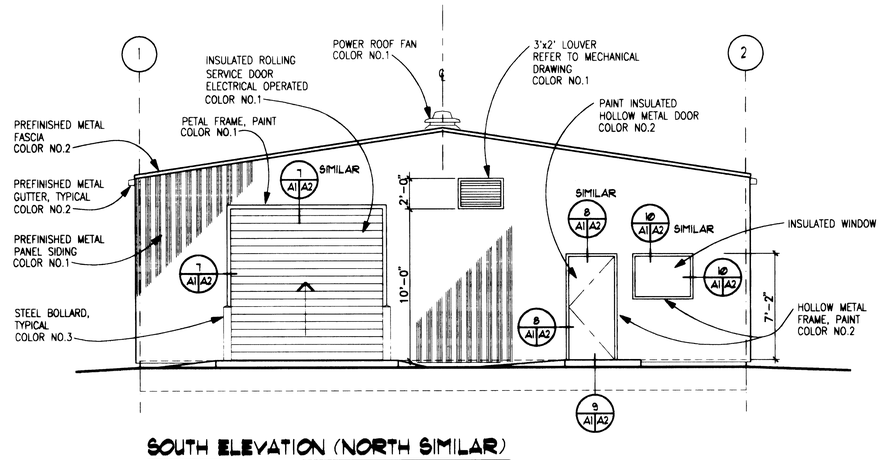
FLOOR PLAN

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



EAST ELEVATION (WEST SIMILAR)

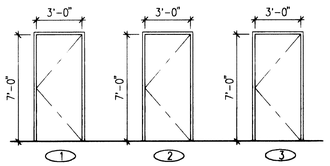
SCALE: 1/4" = 1'-0"



SOUTH ELEVATION (NORTH SIMILAR)

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

DOOR AND FRAME TYPES



1. EXTERIOR HOLLOW METAL DOOR AND FRAME INSULATED COLOR NO.2
2. INTERIOR HOLLOW METAL DOOR AND FRAME INSULATED COLOR NO.2
3. INTERIOR HOLLOW METAL DOOR AND FRAME COLOR NO.2

GENERAL NOTES/COLOR SCHEDULE

1. COLOR NO.1 : ASC PACIFIC – "LIGHT STONE"
   COLOR NO.2 : ASC PACIFIC – "TAHOE BLUE"
   (FOR FIELD PAINTING MATCH COLORS OF PREFINISHED METAL ACCESSORIES PROVIDED BY MANUFACTURER.)
   COLOR NO.3 : FEDERAL STANDARD 595B #13591 (YELLOW)
   COLOR NO.4 : FEDERAL STANDARD 595B #37886 (WHITE)

   COLORS INDICATED ARE FOR REFERENCE PURPOSES ONLY AND NOT INTENDED TO LIMIT SELECTION OF PRODUCTS BY OTHER MANUFACTURERS.
2. PREFINISHED METAL SIDING AND ROOF PANELS COLORS SHALL BE SELECTED FROM MANUFACTURER'S STANDARD COLORS TO MATCH THOSE INDICATED AS CLOSELY AS POSSIBLE.
3. PREFINISHED DOWNSPOUTS, ROOF FAN, LOUVERS AND METAL ACCESSORIES SHALL BE PROVIDED BY METAL BUILDING MANUFACTURER. COLOR TO MATCH SIDING PANEL COLOR.
4. PREFINISHED GUTTERS AND ROOF METAL FASCIA SHALL BE PROVIDED BY METAL BUILDING MANUFACTURER.
5. EXPOSED INTERIOR FERROUS METAL WORK TO BE GIVEN ONE COAT OF AN APPROVED RUST-INHIBITING PRIMER PAINT OF THE TYPE STANDARD TO THE METAL BUILDING MANUFACTURER.

LEGEND

INSULATION

METAL FRAMING

ROOM FINISH SCHEDULE

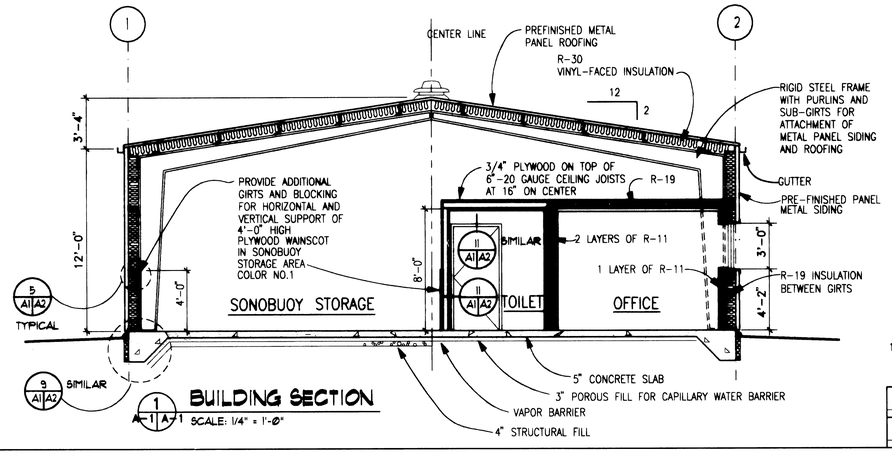
Room No.	Name	Floor Mat'l	Floor Fin.	Base	Ceiling Mat'l	Ceiling Fin.	Walls Mat'l	Walls Fin.	Wainscot Mat'l	Wainscot Fin.	Remarks
1	SONOBOUY STORAGE	CONC.	ST	-	ROOF STRUCTURE	(1)	-	-	PLYWOOD	PAINT	(4)
2	OFFICE	CONC.	ST	RFB	GWB	PAINT	GWB	PAINT	-	-	(2) (5)
3	TOILET	CONC.	ST	RFB	GWB	PAINT	GWB	PAINT	-	-	(3) (5)

ABBREVIATIONS

GWB GYPSUM WALLBOARD
FIN. FINISH
MAT'L MATERIAL
CONC. CONCRETE
ST STEEL TROWELED
RFB RESILIENT FLOOR BASE

ROOM FINISH NOTES

1. AS SPECIFIED
2. 2 LAYERS OF 5/8" GWB ON WALLS AND CEILING
3. 1 LAYER OF 5/8" GWB ON WALLS AND CEILING
4. 4' HIGH 5/8" PLYWOOD WAINSCOT, COLOR NO.1, ATTACHED TO METAL FRAMING
5. PAINT WALLS AND CEILING COLOR NO.4



BUILDING SECTION

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

GRAPHIC SCALE 1/4" 0 2' 4' 8'

3005 REGISTERED ARCHITECT STATE OF WASHINGTON

IF SHEET IS LESS THAN 28" X 40" IT IS A REDUCED PRINT SCALE REDUCED ACCORDINGLY

A-1

SYMBOL	DESCRIPTION	DATE	APPROVAL
	REVISIONS		

THE TSANG PARTNERSHIP, INC.

DEPARTMENT OF THE NAVY
NAVAL AIR STATION, WHIDBEY ISLAND, WASHINGTON

SONOBUOY READY ISSUE BUILDING
NAS WHIDBEY ISLAND
FLOOR PLAN, BLDG. SECTION, BLDG. ELEVATIONS

DSGN. GMK DR. GMK CHK DG
SUPV. CH. ENGR.
SUBMITTED BY DATE 08-17-1994
PRN MEMBER (TITLE)
E.I.C. FIRE PROT.
SEC.HD. DIV.HD.
ENV DIRECTOR
FIRE DIRECTOR 11/28/94
SATISFACTORY TO DATE 8/17/94
APPROVED BY DATE 29/08/94
PUBLIC WORKS OFFICER

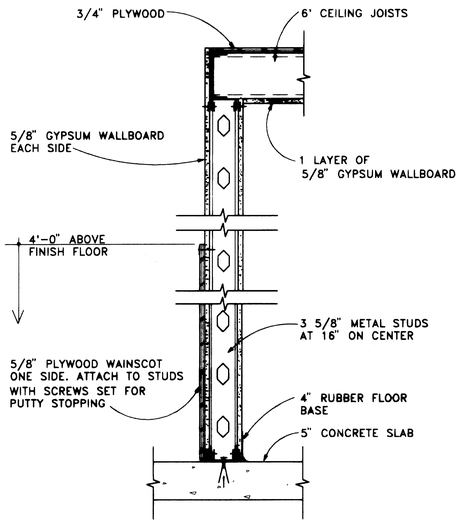
SIZE F | CODE IDENT. NO. 80091 | NAVFAC DRAWING NO. 6410731
CONST. CONTR. NO. N44255-94-C-7497
SCALE AS NOTED | SPEC. 12-94-7497 | SHEET 4 OF 10

Sonobuoy Ready Issue Building
N44255-94-C-7731
4 of 10

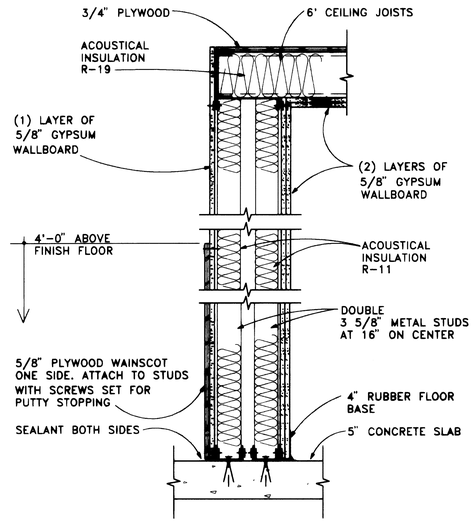
6410731

2786

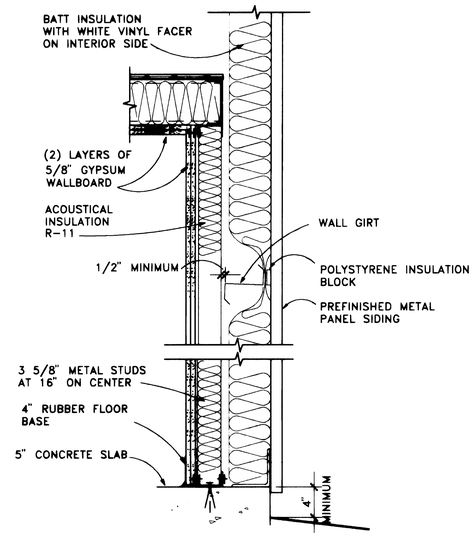
Plot Date: 08/11/94 Plot Time: 10:12 am Filename: C:\ACAD\WHIDSOND\SON-A1



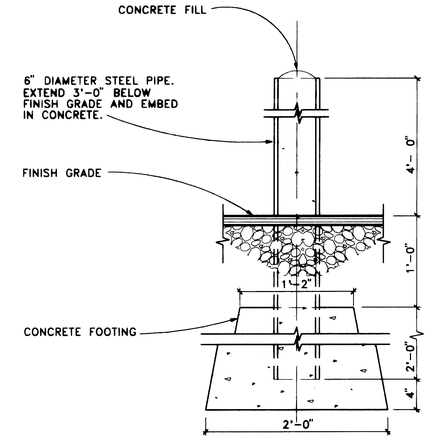
1 A1 A2 **WALL DETAIL**
SCALE: 1 1/2" = 1'-0"



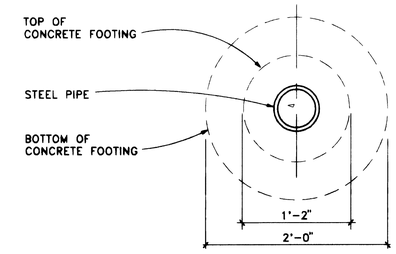
2 A1 A2 **WALL DETAIL**
SCALE: 1 1/2" = 1'-0"



3 A1 A2 **WALL DETAIL**
SCALE: 1 1/2" = 1'-0"

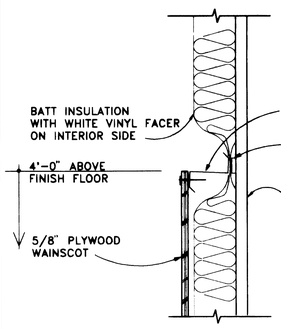


SECTION



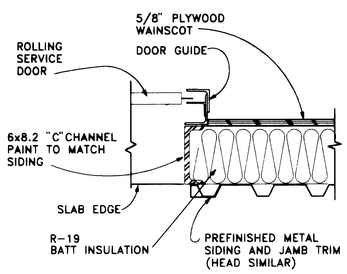
PLAN

4 A1 A2 E1 **BOLLARD DETAIL**
SCALE: 1 1/2" = 1'-0"

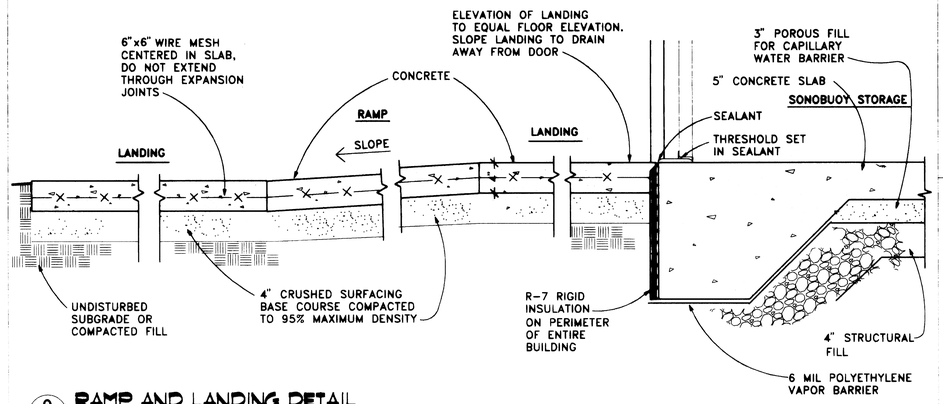


5 A1 A2 **WALL DETAIL**
SCALE: 1 1/2" = 1'-0" (SIMILAR AT ROOF PANELS)

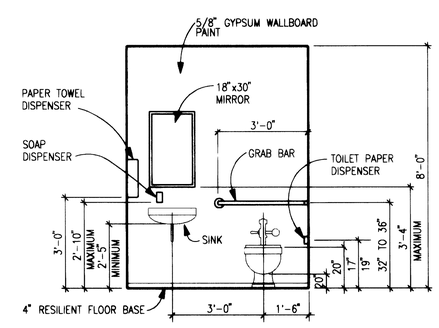
NOTE:
VERIFY CLEARANCE REQUIRED FOR DOOR GUIDES.



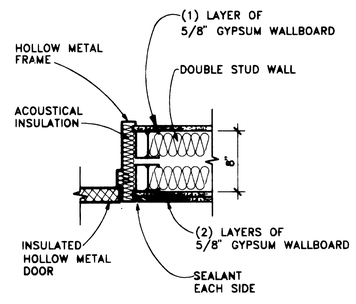
7 A1 A2 **JAMB DETAIL AT ROLLING SERVICE DOOR** (HEAD SIMILAR)
SCALE: 1 1/2" = 1'-0"



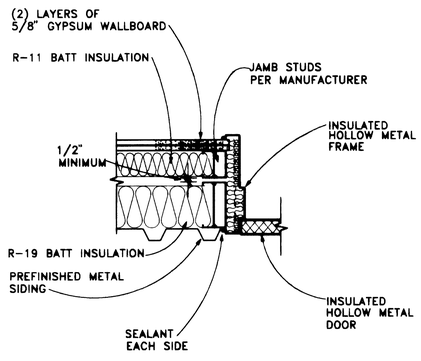
9 A1 A2 **RAMP AND LANDING DETAIL**
SCALE: 1 1/2" = 1'-0"



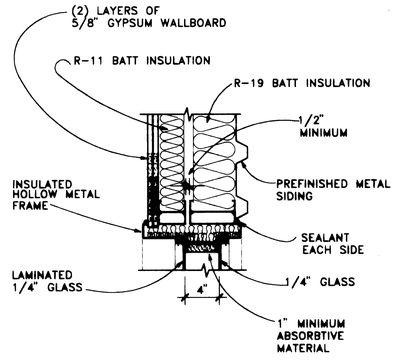
1 A1 A1 **WALL ELEVATION**
SCALE: 1/2" = 1'-0"



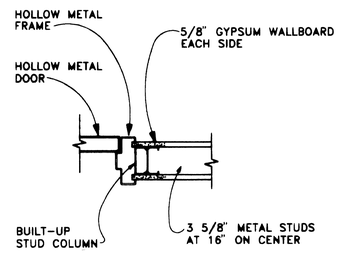
6 A1 A2 **JAMB DETAIL**
SCALE: 1 1/2" = 1'-0" (HEAD SIMILAR)



8 A1 A2 **DOOR JAMB DETAIL**
SCALE: 1 1/2" = 1'-0" (HEAD SIMILAR)



8 A1 A2 **WINDOW JAMB DETAIL**
SCALE: 1 1/2" = 1'-0" (HEAD SIMILAR)



11 A1 A2 **JAMB DETAIL (HEAD SIMILAR)**
SCALE: 1 1/2" = 1'-0"

REGISTERED ARCHITECT 3005 JOHN C. TSANG STATE OF WASHINGTON

IF SHEET IS LESS THAN 28" X 40" IT IS A REDUCED PRINT SCALE REDUCED ACCORDINGLY

A-2

GRAPHIC SCALES 1/2" 0 6" 1' 2' 4' 1 1/2" 0 4" 8" 16"

SYMBOL	DESCRIPTION	DATE	APPROVAL
	REVISIONS		

THE TSANG PARTNERSHIP, INC.

DEPARTMENT OF THE NAVY
NAVAL AIR STATION, WHIDBEY ISLAND, WASHINGTON

DSGN. GMK DR. GMK CHK. DG
SUPV. CH. ENGR.
SUBMITTED BY DATE 08-17-1994
FAW MEMBER (TITLE)
E.I.C. FIRE PROT.
SEC.HD. DIV.HD.
SATISFACTORY TO DATE 8/17/94
APPROVED DATE 20 Oct 94
DIV. DIRECTOR
FIRE DIRECTOR 11/28/94
PUBLIC WORKS OFFICER

SONOBUOY READY ISSUE BUILDING
NAS WHIDBEY ISLAND
DETAILS

SIZE F | CODE IDENT. NO. 80091 | NAVFAC DRAWING NO. 6410732
CONST. CONTR. NO. N44255-94-C-7497
SCALE AS NOTED | SPEC. 12-94-7497 | SHEET 5 OF 10

Sonobuoy Ready Issue Building
N44255-94-C-7731
5 of 10

EAS FILE COPY
FSK 10
6410732

2786

Plot Date: 08/11/94 Plot Time: 10:01 am Filename: C:\ACAD\WHIDSONO\SON-A2

GENERAL NOTES

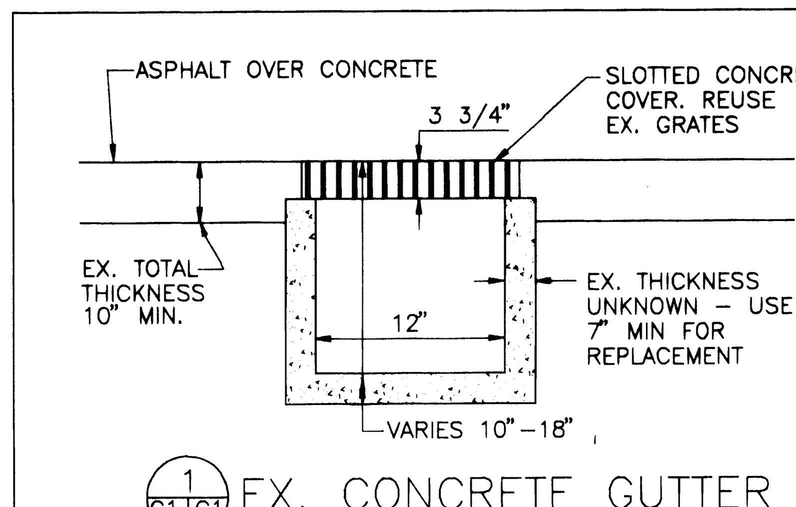
1. CONTRACTOR SHALL CONSTRUCT SILT FENCES AS IS NECESSARY TO PROVIDE EROSION AND SEDIMENT PROTECTION TO THE EXISTING AGRICULTURAL DRAINAGE DITCH WHICH IS LOCATED APPROXIMATELY 100 FT EAST OF THE PROPOSED BUILDING SITE. NO VEHICLES NOR OTHER MOBILE EQUIPMENT SHALL OCCUR WITHIN 70 FEET OF THE AGRICULTURAL DRAINAGE DITCH. (8 C1 C2)
2. OPERATING PRESSURE OF WATER SYSTEM IS 150 POUNDS PER SQUARE INCH.
3. CONNECTIONS TO EX. WATER MAIN SHALL BE MADE WHILE SYSTEM IS UNDER PRESSURE.

ABBREVIATIONS

@	AT	MAX	MAXIMUM
ø	DIAMETER	MH	MANHOLE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MIN	MINIMUM
		MJ	MECHANICAL JOINT
BHP	BRAKE HORSEPOWER	N	NORTH
COMM	COMMUNICATION	NO	NUMBER
C.O.T.G.	CLEAN OUT TO GRADE	NST	NATIONAL STANDARD THREAD
E	EAST	NTS	NOT TO SCALE
ELECT	ELECTRICAL	OC	ON CENTER
EL/ELEV	ELEVATION	PT	POINT
EX	EXISTING	RPM	REVOLUTIONS PER MINUTE
F	FLANGE	S	SOUTH
FF	FINISHED FLOOR ELEVATION	SQ	SQUARE
FT	FOOT/FEET	TYP	TYPICAL
GAL	GALLON	V	VOLT
GPD	GALLONS PER DAY	W	WEST
IE	INVERT ELEVATION	W/	WITH
IN	INCHES	WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

SANITARY SEWER NOTES

1. THE SYSTEM IS DESIGNED FOR A STORAGE BUILDING WITH AN ESTIMATED FLOW OF 50 GALLONS PER DAY MAXIMUM WATER USAGE. ALL CALCULATIONS AND DESIGN ARE FOR A SYSTEM CAPABLE OF HANDLING 50 GPD. NO CONNECTIONS EXCEPT THE STORAGE BUILDING MAY BE MADE WITHOUT FURTHER APPROVAL OF THE NAVY.
2. THE SYSTEM REQUIRES A 2 COMPARTMENT SEPTIC TANK WITH A MINIMUM CAPACITY OF 1125 GALLONS. EFFLUENT FILTER BAFFLES SHALL BE INSTALLED ON THE OUTLET PIPE FROM THE SEPTIC TANK TO PREVENT SOLIDS FROM ENTERING THE PUMP CHAMBER.
3. SEPTIC TANK AND PUMP CHAMBER SHALL BE PRECAST UNITS.
4. THE PUMP CHAMBER MAY BE A SINGLE COMPARTMENT WITH 100 GALLONS OF LIVE STORAGE – SEE PLAN.
5. THE PUMP SHALL HAVE A CAPACITY OF 13.50 GALLONS PER MINUTE AT 24 FEET OF HEAD.
6. AUDIO/VISUAL ALARM SHALL BE WIRED TO OPERATE UNDER THE FOLLOWING CONDITIONS: (ON SEPARATE CIRCUIT FROM PUMP)
   A. HIGH LIQUID LEVEL
   B. AUDIO/VISUAL ALARM SHALL REQUIRE MANUAL RESET TO TURN OFF.



1 C1 C1 EX. CONCRETE GUTTER
N.T.S.

NOTES FOR NAS WHIDBEY TOPOGRAHPIC SURVEY

1. Datum: Mean Sea Level.
Based upon Navy Data Bench Marks
Run 30 Elev.= 118.66
as shown on those certain drawings titled U.S. Naval Air Station, Whidbey Island, Washington, Ault Field, Horizontal & Vertical Map, Size F, Code Ident. No. 80091, PW Drawing No. 81-9, Sheet 5 of 18, dated December, 1984.

2. Coordinates and Meridian:
Monument – "Run 30"
N 492,921.15
E1,557,430.78
Monument at East end of Third Street – "Powell"
N 492,767.32
E 1,555,992.04
Washington State Coordinate System as shown on those certain drawings titled U.S. Naval Air Station, Whidbey Island, Washington, Ault Field, Horizontal & Vertical Map, Size F, Code Ident. No. 80091, PW Drawing No. 81-9, Sheet 5 of 18, dated December, 1984.

3. Contour Interval: 1 Foot
4. Instrumentation: Lietz Set 4A Theodolite Distance Meter and Nikon Automatic Level
5. Utility information shown hereon is as field located or as provided to Semrau and Lisser by Warner Engineering from Navy records.
6. Baseline Control Points

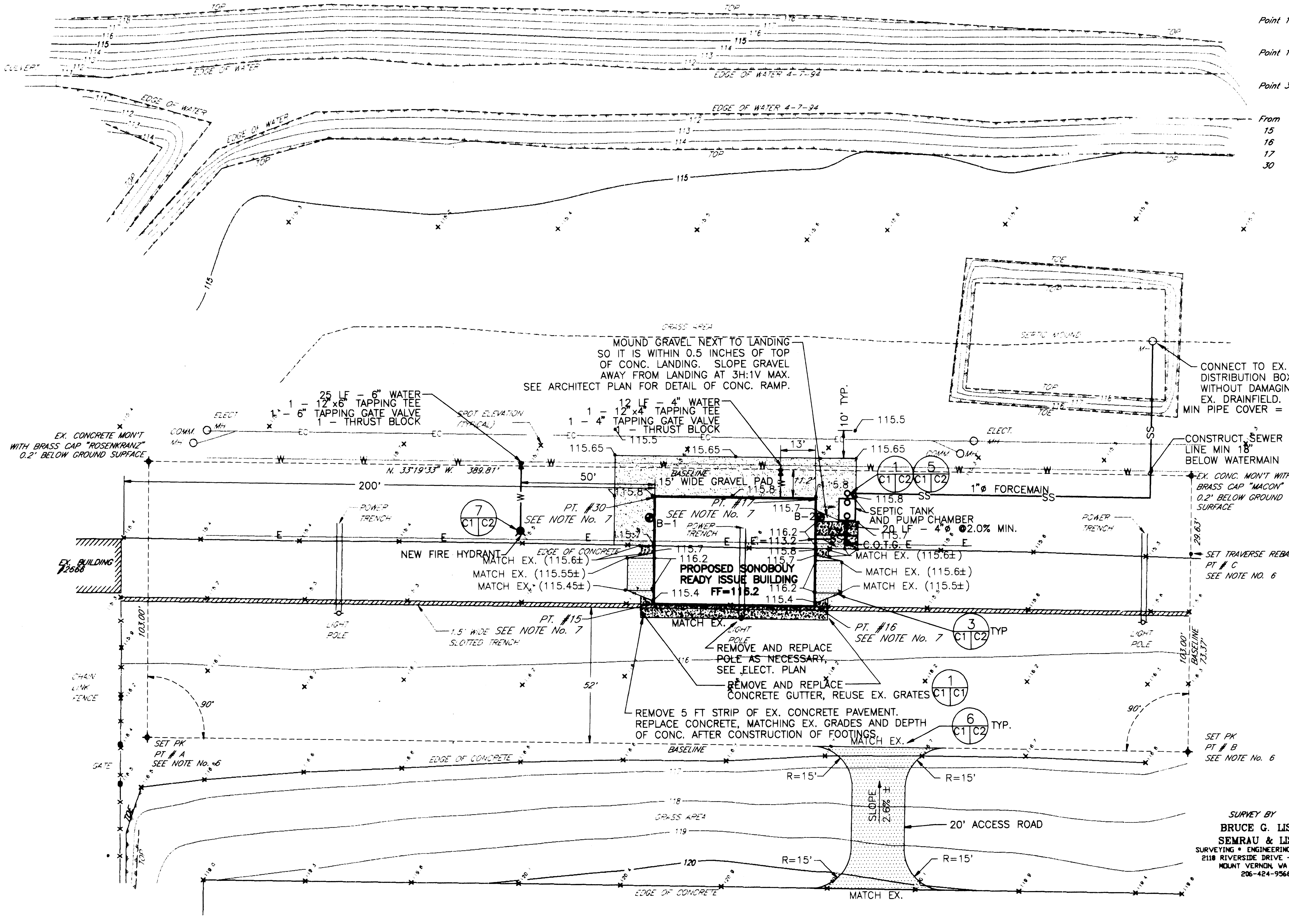
Point A	N 493591.85 E 1556670.02	
Point B	N 493266.14 E 1556884.18	Elev. = 116.76
Point C	N 493306.45 E 1556945.48	
Monument Control Points		
ROSENKRANZ	N 493648.44 E 1556756.08	Elev. = 115.55
MACON	N 493322.73 E 1556970.24	Elev. = 115.48

7. Building Coordinates

Point 15	N 493461.7 E 15566817.5
Point 16	N 493411.6 E 1556850.5
Point 17	N 493433.6 E 1556883.9
Point 30	N 493483.7 E 1556851.0

From	To	Bearing	Distance
15	16	S 33 19 33.0 E	60.0
16	17	N 56 40 27.0 E	40.0
17	30	N 33 19 33.0 W	60.0
30	15	S 56 40 27.0 W	40.0

CALL BEFORE YOU DIG TO LOCATE NON-NAVY OWNED UTILITIES 1-800-424-5555



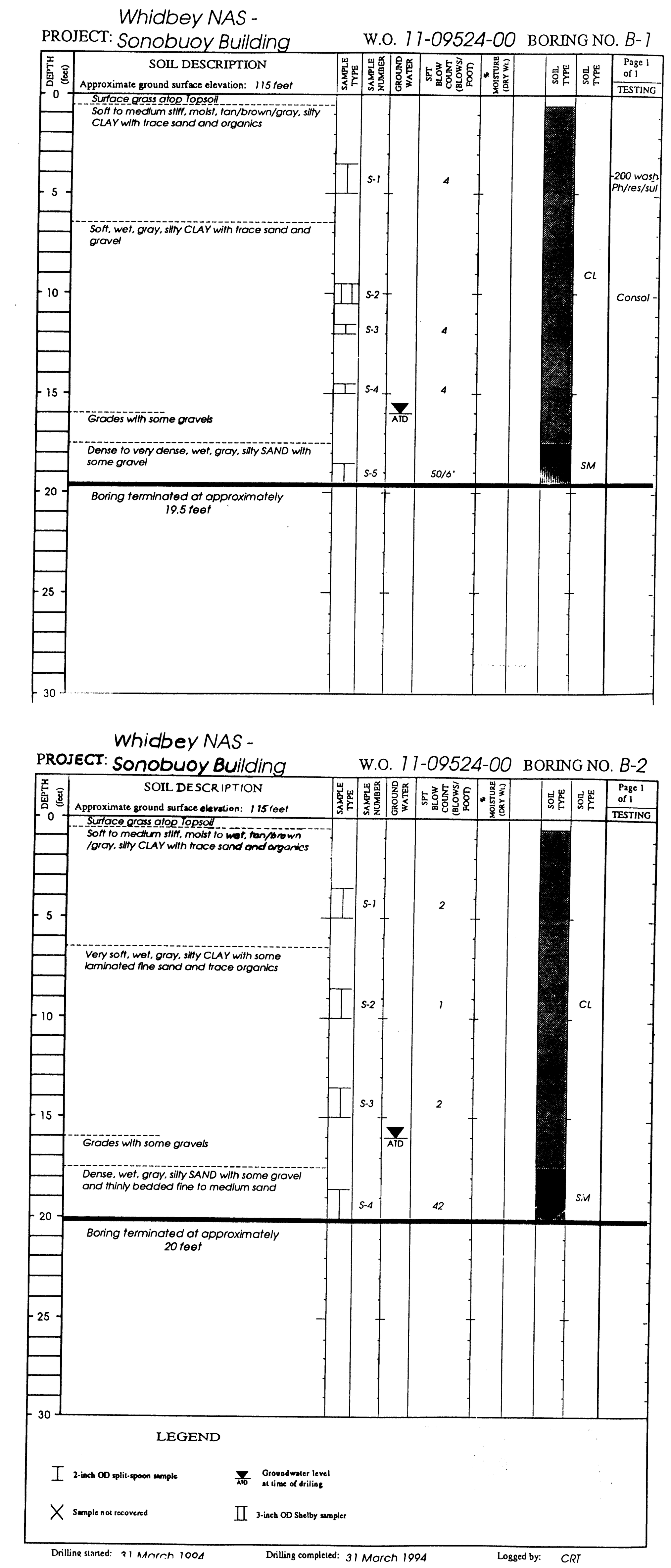
LEGEND

E	EX. ELECTRICAL LINE
EC	EX. ELECTRICAL/COMMUNICATION LINES
W	EX. WATER
B-1	SOIL BORING (2 C1 C1)
	NEW FIRE HYDRANT
	NEW WATER VALVE
C.O.T.G.	NEW SEWER CLEAN OUT (4 C1 C2)
W	NEW WATER LINE (9 C1 C2)
SS	NEW SEWER LINE (9 C1 C2)
	NEW GRAVEL
	NEW ASPHALT (2 C1 C2)
	NEW CONCRETE
	EX. SPOT ELEVATION
115.5	NEW SPOT ELEVATION (FINISHED GRADE)

TRUE NORTH

PLAN NORTH

0 10 20 40 60
SCALE



2 C1 C1 SOIL BORINGS

IF SHEET IS LESS THAN 28" X 40" IT IS A REDUCED PRINT SCALE REDUCED ACCORDINGLY

AUGUST 10, 1994 C-1

SYMBOL	DESCRIPTION	DATE	APPROVAL

REVISIONS

SURVEY BY
BRUCE G. LISSER
SEMRAU & LISSER
SURVEYING • ENGINEERING PLANNING
2118 RIVERSIDE DRIVE – SUITE 104
MOUNT VERNON, WA 98273
206-424-9566

WARNER ENGINEERING
5122 Olympic Dr. NW
Suite B204
Gig Harbor, WA 98335
Office (206) 858-8577
Fax (206) 858-8579

GARY E. WARNER STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER
EXPIRES 9/21/95

THE TSANG PARTNERSHIP, INC.

DEPARTMENT OF THE NAVY
NAVAL AIR STATION, WHIDBEY ISLAND, WASHINGTON

SONOBUOY READY ISSUE BUILDING
NAS WHIDBEY ISLAND
GRADING, STORM DRAINAGE, SEWER AND WATER PLAN

DSGN. C.E.L.	DR. C.E.L.	CHK. G.E.W.
SUPV.	CH. ENGR.	
SUBMITTED BY		DATE
E.I.C.	FIRE PROT.	
SEC. HD.	DIV. HD.	
SATISFACTORY TO		DATE 8/17/94
APPROVED		DATE 29 NOV 94

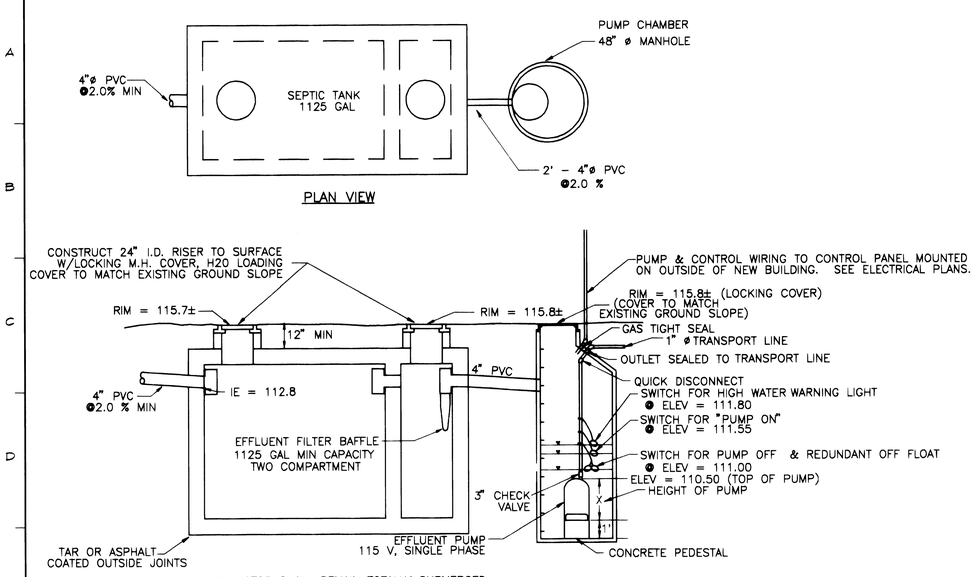
ENV DIRECTOR
PWE DIRECTOR 11/28/94
PUBLIC WORKS OFFICER

SIZE	CODE INDENT. NO.	NAVFAC. DRAWING NO. 6410729	
F	80091	CONST. CONTR. NO. N44255-94-C-7497	
SCALE	1" = 20'	SPEC.12-94-7497	SHEET 2 OF 10

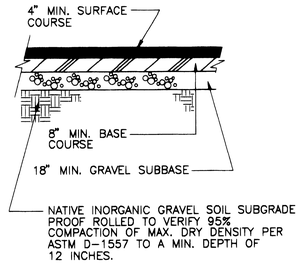
Sonobuoy Ready Issue Building
N44255-94-C-7731
2 of 10

6410729

2786

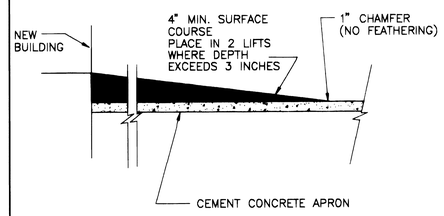


1 C1 C2 SEPTIC TANK & PUMP CHAMBER DETAIL
N.T.S.

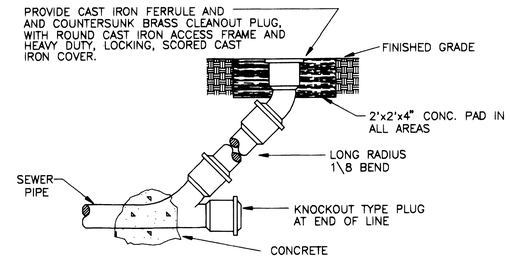


NOTE: DEPTHS OF MATERIALS INDICATED HEREON ARE COMPACTED MINIMUM.

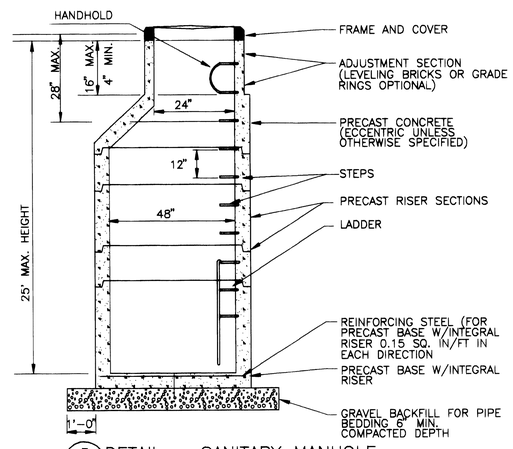
2 C1 C2 TYPICAL PAVEMENT SECTION
N.T.S.



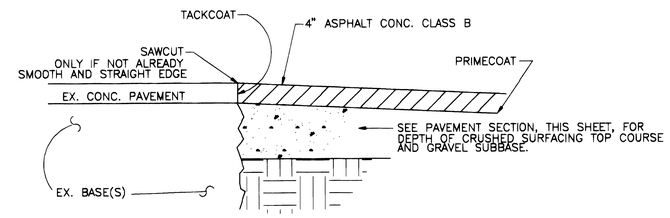
3 C1 C2 ASPHALT RAMP SECTION
N.T.S.



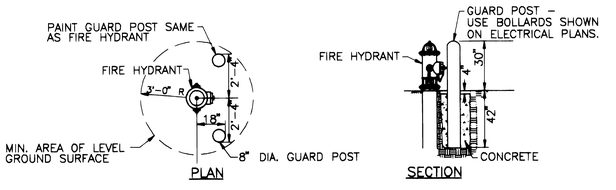
4 C1 C2 SANITARY SEWER CLEANOUT
N.T.S.



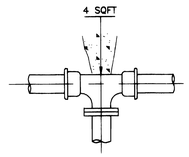
5 C1 C2 DETAIL - SANITARY MANHOLE
N.T.S.



6 C1 C2 PAVEMENT JOIN DETAIL
N.T.S.



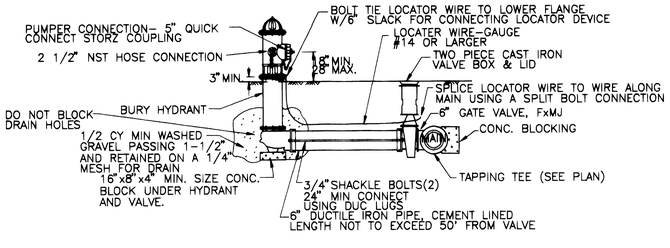
5 1/4" MAIN VALVE OPENING FIRE HYDRANT
6" MECHANICAL JOINT INLET, 1 1/2" PENTAGON OPERATING NUT. FIRE HYDRANT TO BE PAINTED TWO COATS OF RUSTOLEUM (SAME COLOR AS OTHER HYDRANTS ON BASE).



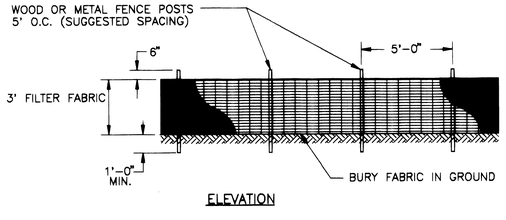
THRUST BLOCK FOR TEE

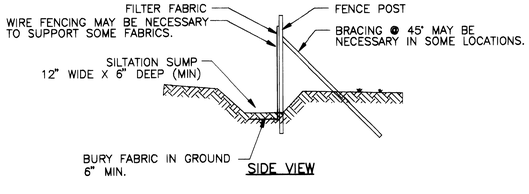
NOTES:

1. BEARING AREA OF CONCRETE THRUST-BLOCK BASED ON 200 PSI PRESSURE AND SAFE SOIL BEARING LOAD OF 2,000 POUNDS PER SQUARE FOOT.
2. AREAS MUST BE ADJUSTED FOR OTHER PIPE SIZES, PRESSURES AND SOIL CONDITIONS.
3. CONCRETE BLOCKING SHALL BE CAST IN PLACE AND HAVE A MINIMUM OF 1/4 SQUARE FOOT BEARING AGAINST THE FITTING.
4. BLOCK SHALL BEAR AGAINST FITTINGS ONLY AND SHALL BE CLEAR OF JOINTS TO PERMIT TAKING UP OR DISMANTLING OF JOINT.
5. CONTRACTOR SHALL INSTALL BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE AS WELL AS TO CONTINUOUSLY WITHSTAND OPERATION PRESSURE UNDER ALL CONDITIONS OF SERVICE.

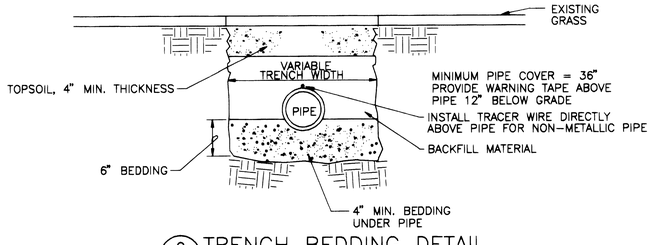


7 C1 C2 FIRE HYDRANT ASSEMBLY
N.T.S.





8 C1 C2 FILTER FABRIC FENCE DETAIL
N.T.S.



9 C1 C2 TRENCH BEDDING DETAIL
N.T.S.

IF SHEET IS LESS THAN 28" X 40" IT IS A REDUCED PRINT SCALE REDUCED ACCORDINGLY

AUGUST 10, 1994 C-2

SYMBOL	DESCRIPTION	DATE	APPROVAL

REVISIONS

WARNER ENGINEERING
5122 Olympic Dr. NW
Suite B204
Gig Harbor, WA 98335
Office (206) 858-8577
Fax (206) 858-8579

EXPIRES 6/21/95

THE TSANG PARTNERSHIP INC.

DEPARTMENT OF THE NAVY
NAVAL AIR STATION, WHIDBEY ISLAND, WASHINGTON

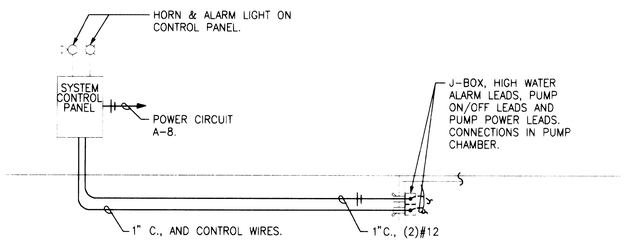
SONOBUOY READY ISSUE BUILDING
NAS WHIDBEY ISLAND
PAVING, STORM DRAINAGE, SEWER AND WATER DETAILS

DSGN. C.E.L. DR. C.E.L. CHK. G.E.W.
SUPV. CH. ENGR.
SUBMITTED BY DATE
E.I.C. FIRE PROT.
SEC. HD. DIV. HD.
SATISFACTORY TO DATE
APPROVED DATE

SIZE F | CODE IDENT. NO. 80091 | NAVFAC. DRAWING NO. 6410730
CONST. CONTR. NO. N44255-94-C-7497
SCALE N.T.S. | SPEC. 12-94-7497 | SHEET 3 OF 10

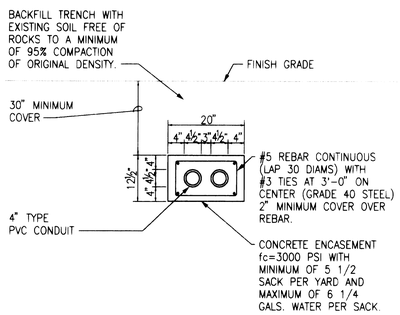
Sonobuoy Ready Issue Building
N44255-94-C-7731
3 of 10

2786



3 SEWAGE SYSTEM WIRING DIAGRAM

E1 | E1 DIAGRAMMATIC



2 PRIMARY SERVICE 2-WAY DUCTLINE

E2 | E1 NO SCALE

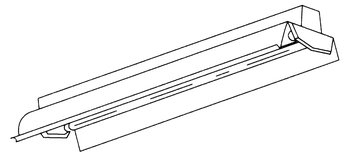
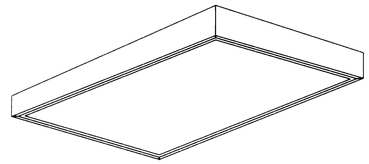
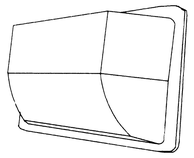
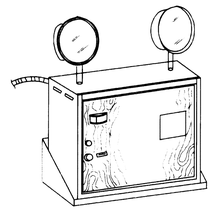
ABBREVIATIONS

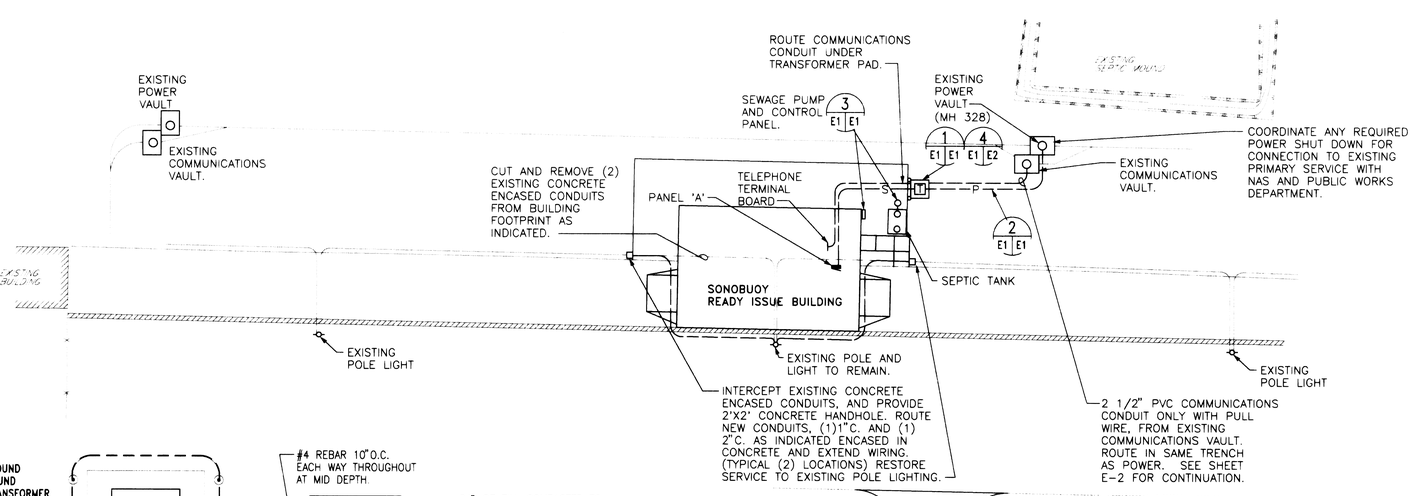
ABBREVIATION	DESCRIPTION
KVA	KILO VOLT AMPS
VA	VOLT AMPS
KW	KILO WATTS
KWHR	KILO WATT HOUR
C	CONDUIT
A	AMPS
V	VOLT
HP	HORSEPOWER
TYP	TYPICAL
W	WATTS
ø	PHASE
CKT	CIRCUIT
BRKR	BREAKER
AFF	ABOVE FINISHED FLOOR
BTU	BRITISH THERMAL UNIT
HR	HOUR
AWG	AMERICAN WIRE GAUGE
HPS	HIGH PRESSURE SODIUM
HPF	HIGH POWER FACTOR
O.C.	ON CENTER
GRD	GROUND
PVC	POLY VINYL CHLORIDE
XFMR	TRANSFORMER
PPM	PARTS PER MILLION
PCB	POLYCHLORINATED BIPHENYLS
PSI	POUNDS PER SQUARE INCH
C.O.	CONDUIT ONLY
RGSC	RIGID STEEL CONDUIT
C.U.	COPPER

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	SURFACE OR PENDANT MOUNT FLUORESCENT LIGHT FIXTURE
	WALL MOUNT HIGH INTENSITY DISCHARGE LIGHT FIXTURE
	EMERGENCY BATTERY PACK WITH TWIN HEAD FLOOD
$	SINGLE POLE SWITCH
a $$ b	MULTI-GANGED SWITCH (LOWER CASE LETTERS INDICATES SWITCHING)
	120/240 VOLT PANELBOARD
	HOMERUN TO PANEL & CIRCUIT NUMBERS AS INDICATED ON PLANS
	RACEWAY CONCEALED IN WALL OR CEILING
	RACEWAY CONCEALED UNDERGROUND OR UNDER FLOOR, P = PRIMARY , S = SECONDARY
	MARKS INDICATE NUMBER OF #12 AWG UNLESS NOTED OTHERWISE
	GROUNDING ELECTRODE
J	JUNCTION BOX - SIZE PER CODE (F INDICATES FIRE ALARM SYSTEM)
A 2-34	FIXTURE CALLOUT - A INDICATES UNIT IDENTIFICATION, 2 INDICATES NUMBER OF LAMPS, 34 INDICATES NUMBER OF WATTS PER LAMP
RH1	EQUIPMENT CALLOUT - RH1 INDICATES UNIT IDENTIFICATION
T	TRANSFORMER
	PUSHBUTTON CONTROLLER
	MOTOR CONNECTION
G	DUPLEX RECEPTACLE (G INDICATES GROUND FAULT CIRCUIT INTERRUPTER)
	COMBINATION DISCONNECT / STARTER SWITCH
S	FIRE ALARM - SMOKE DETECTOR.
T	THERMOSTAT
	FIXTURE WITH EMERGENCY BATTERY PACK
1 E2 E3	DETAIL CALLOUT - 1 INDICATES DETAIL IDENTIFICATION, E2 INDICATES SHEET TAKEN FROM, E3 INDICATES SHEET DRAWN ON
F	FIRE ALARM - COMBINATION HORN/STROBE - MOUNTED AT +80"
F	FIRE ALARM - PULL STATION - MOUNT AT +45"
CR	CONTROL RELAY
	FUSED DISCONNECT SWITCH

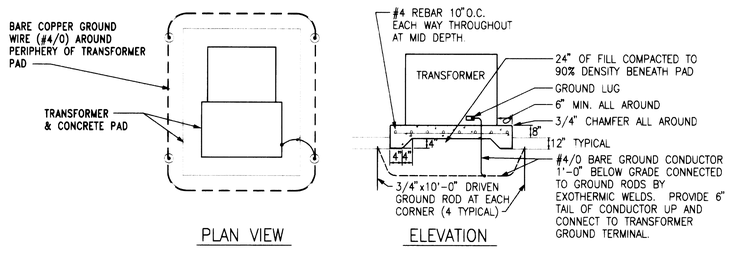
LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	
A 2-34	INDUSTRIAL FLUORESCENT LIGHT FIXTURE PENDANT MOUNT IN CONTINUOUS ROW PLACEMENT. HOUSING AND REFLECTOR SHALL BE STEEL TREATED FOR RUST PREVENTION AND FINISHED WITH WHITE BAKED ENAMEL OR POLYESTER FINISH. FIXTURE SHALL HAVE (2)34 WATT ENERGY SAVING LAMPS AND ENERGY SAVING BALLAST RATED AT 120V. PROVIDE WITH 10% UP LITE AND WIRE GUARD.	
B 3-34	SURFACE MOUNTED METAL SIDED 2'X4' FLUORESCENT LIGHT FIXTURE WITH FLUSH STEEL DOOR AND 0.156" THICK, CLEAR PRISMATIC 100% ACRYLIC LENS. FIXTURE SHALL HAVE (3)34WATT ENERGY SAVING LAMPS AND ENERGY SAVING BALLAST RATED AT 120 VOLTS.	
C 2-34	SAME AS FIXTURE TYPE 'C' EXCEPT 1'X4' WITH (2)34WATT ENERGY SAVING LAMPS.	
D 150	HIGH INTENSITY DISCHARGE LIGHT FIXTURE EXTERIOR WALL MOUNTED WITH 150 WATT HPS LAMP & PHOTOELECTRIC CELL. FIXTURE HOUSING SHALL BE DIE-CAST ALUMINUM WITH (304/316) STAINLESS STEEL EXTERNAL HARDWARE. THE REFRACTOR SHALL BE PRISMATIC BOROSILICATE GLASS SEALED AND GASKETED TO INHIBIT ENTRANCE OF OUTSIDE CONTAMINANTS. REFLECTOR SHALL BE SPECULAR ANODIZED ALUMINUM AND LAMP HOLDER SHALL BE MEDIUM BASE PORCELAIN. BALLAST SHALL BE HPF TYPE RATED AT 120 VOLTS	
E -	EMERGENCY LIGHTING UNIT WITH SOLID STATE FULLY AUTOMATIC THREE RATE CHARGER FOR NICKEL CADMIUM BATTERY, TEST SWITCH, PILOT LIGHT, AUTOMATIC OVERLOAD PROTECTION, FULLY ADJUSTABLE SEALED BEAM HALOGEN LAMPS (8 WATTS) AND VOLT METER. FIXTURE SHALL OPERATE A MINIMUM OF 90 MINUTES AT 87.5 PERCENT OF THE NOMINAL BATTERY VOLTAGE RATING. HARDWIRE FOR 120 VOLTS.	
F -	EXIT SIGN SINGLE FACE, BACK MOUNTED, SELF-CONTAINED NICKEL CADMIUM EMERGENCY BATTERY AND RED PANEL BEHIND STENCIL FACE INSIDE OF POLYCARBONATE HOUSING. FIXTURE SHALL OPERATE A MINIMUM OF 90 MINUTES AT 87.5 PERCENT OF THE NOMINAL BATTERY VOLTAGE RATING. DUAL VOLTAGE RATED FOR 120 VOLT OR 277 VOLT.	



SITE PLAN

SCALE: 1" = 20'-0"



1 TRANSFORMER PAD DETAIL

E1 | E1 NO SCALE

NOTES:

1. COORDINATE AND VERIFY FINAL DIMENSIONS AND MOUNTING DETAILS WITH TRANSFORMER MANUFACTURER.
2. SLAB TO BE MADE OF 3000 PSI CONCRETE, REINFORCED STEEL ASTM A615 GRADE 60
3. TOP OF SLAB MUST BE SMOOTH & FLAT.
4. ALL REBARS #4 LENGTHS, AS REQUIRED, FOR TRANSFORMER SIZE.

0 10 20 40 60

SCALE

IF SHEET IS LESS THAN 28" X 40" IT IS A REDUCED PRINT SCALE REDUCED ACCORDINGLY

E-1

SYMBOL	DESCRIPTION	DATE	APPROVAL
	REVISIONS		

THE TSANG PARTNERSHIP, INC.

DEPARTMENT OF THE NAVY
NAVAL AIR STATION, WHIDBEY ISLAND, WASHINGTON

SONOBUOY READY ISSUE BUILDING
NAS WHIDBEY ISLAND
SITE PLAN LEGEND ABBREVIATIONS
LIGHTING FIXTURE SCHEDULE

DSGN. NO | DR. DMA | CHK. MDB
SUPV. MDB | CH. ENGR. MDB
SUBMITTED BY | DATE
E.I.C. | FIRE PROT.
SEC.HD. | DIV.HD.

SATISFACTORY TO | DATE 8/17/94
APPROVED | DATE 29 AUG 94

SIZE E | CODE IDENT. NO. 80091 | NAVFAC. DRAWING NO. 640736
SCALE AS NOTED | CONST. CONTR. NO. N44255-94-C-7497
SPEC. 12-94-7497 | SHEET 9 OF 10

MICHAEL J. BITTNER, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER
EXPIRES 7/24/96

DIV. DIRECTOR
PWC DIRECTOR 11/28/94

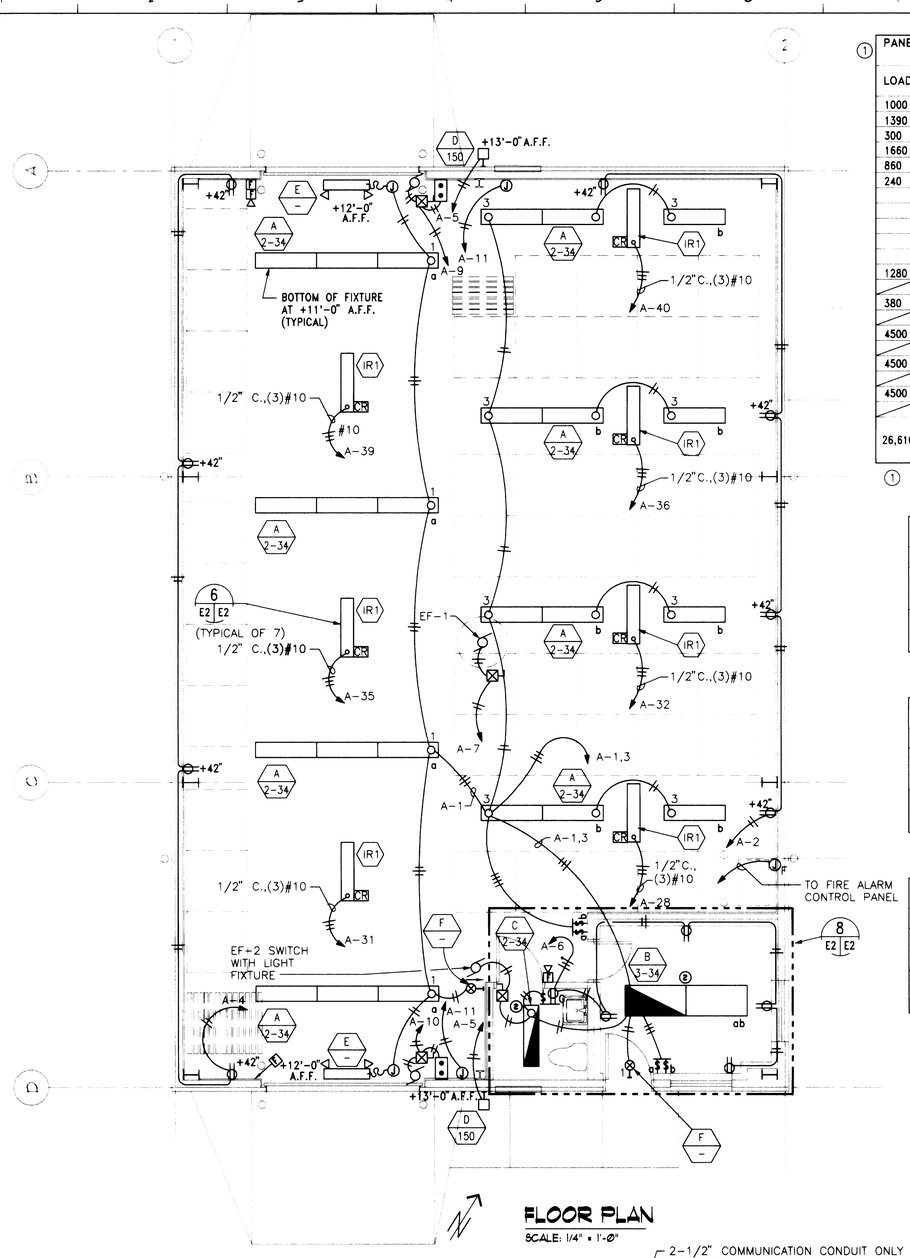
Sonobuoy Ready Issue Building
N44255-94-C-7731
9 of 10

EAST FILBERT CORP. IRVINE, CA.

2786

2786

Plot Date 08/10/94 Plot Time 1:00 pm Filename D:\DWGS\94046\94046E-1



FLOOR PLAN

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

(1)

PANEL 'A'		3 PHASE 4 WIRE 120/208 VOLTS 225 AMPS MAIN BRKR RECESSED MOUNT 42 POLES BOTTOM FEED									AIC MIN.
LOAD	CIRCUIT DIRECTORY	CKT NO.	CKT BRKR	A	B	C	CKT BRKR	CKT NO.	CIRCUIT DIRECTORY		LOAD
1000	LIGHTING	1	1P-20A	•			1P-20A	2	RECEPTACLES		720
1390	LIGHTING & EXHAUST FAN #2	3	1P-20A		•		1P-20A	4	RECEPTACLES		720
300	EXTERIOR LIGHTING	5	1P-20A			•	1P-20A	6	RECEPTACLES		900
1660	EXHAUST FAN #1	7	1P-20A	•			1P-20A	8	SEWAGE PUMP		1180
860	ROLL-UP DOOR	9	1P-20A		•		1P-20A	10	ROLL-UP DOOR		860
240	LOUVER ACTUATORS	11	1P-20A			•	1P-20A	12	HEAT & VENT CONTROLS		500
	SPARE	13	1P-20A	•			1P-20A	14	SPARE		
	SPARE	15	1P-20A		•		1P-20A	16	SPARE		
	SPARE	17	1P-20A			•	1P-20A	18	SPARE		
	SPARE	19	1P-20A	•			1P-20A	20	SPARE		
	SPARE	21	1P-20A		•		1P-20A	22	SPARE		
1280	RADIANT PANEL	23	2P			•	2P	24	WATER HEATER		1500
		25	20A	•			20A	26			
380	BASEBOARD HEATER	27	2P		•		2P	28	INFRARED HEATER		4500
		29	20A			•	30A	30			
4500	INFRARED HEATER	31	2P	•			2P	32	INFRARED HEATER		4500
		33	30A		•		30A	34			
4500	INFRARED HEATER	35	2P			•	2P	36	INFRARED HEATER		4500
		37	30A	•			30A	38			
4500	INFRARED HEATER	39	2P		•		2P	40	INFRARED HEATER		4500
		41	30A			•	30A	42			
26,610	TOTAL VA 44,990						CURRENT 125 AMPS				24,380
	DEMAND VA 46,453						DEMAND CURRENT 129 AMPS				

(1) SERVICE ENTRANCE RATED

INFRARED HEATER SCHEDULE

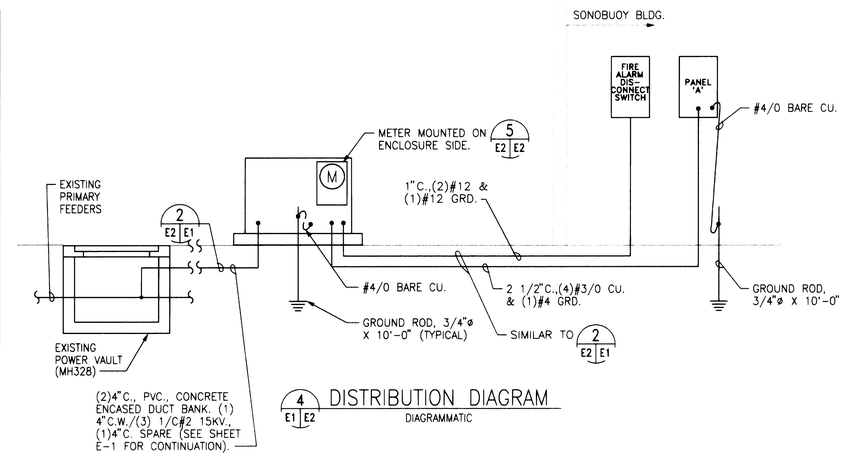
UNIT #	KW	VOLTS	PHASE	# OF ELEMENTS	BEAM SPREAD	REMARKS / COMMENTS
IR1	4.5	208	1	1	60° SYMMETRICAL	HANG FROM STRUCTURE WITH CHAIN. 11'-0" A.F.F. TO BOTTOM.

BASEBOARD HEATER SCHEDULE

UNIT #	KW	VOLTS	PHASE	BTU / HR	REMARKS / COMMENTS
BB1	.375	208	1	1281	COMMERCIAL DUTY BASEBOARD HEATER. PROVIDE WITH INTERGRAL THERMOSTAT.

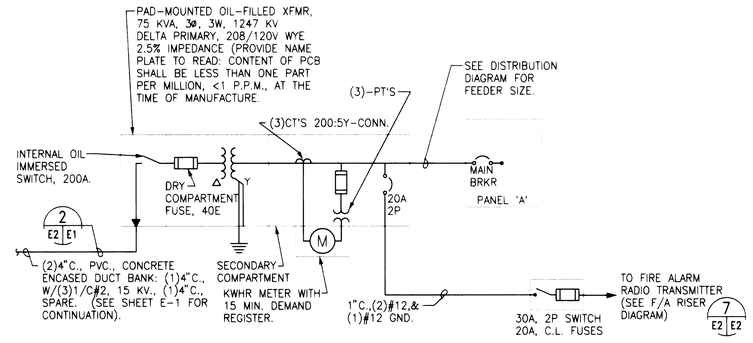
RADIANT HEATER SCHEDULE

UNIT #	KW	VOLTS	PHASE	BTU / HR	REMARKS / COMMENTS
RH1	1.28	208	1	4372	SURFACE MOUNT HEATING PANEL WITH EXTRUDED ALUMINUM FRAME.



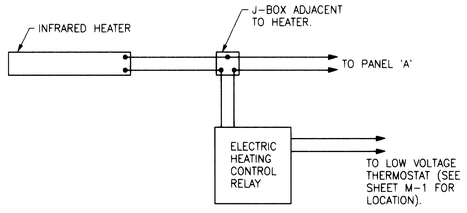
4 DISTRIBUTION DIAGRAM

E1 E2 DIAGRAMMATIC



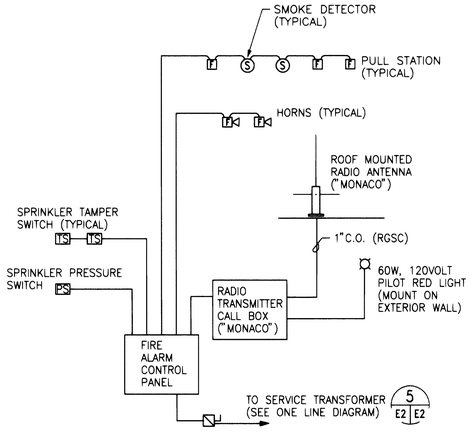
5 ONE-LINE DIAGRAM

E2 E2 DIAGRAMMATIC



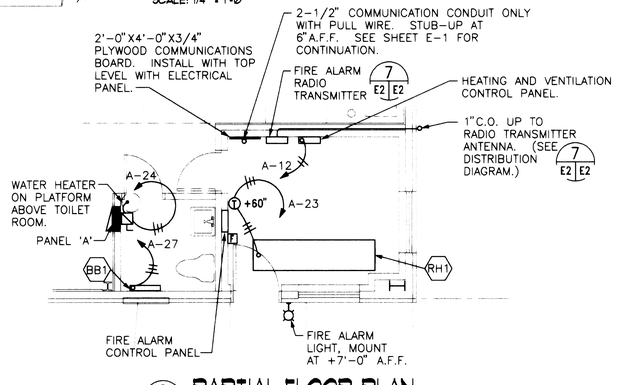
6 INFRARED HEATER CONTROL DIAGRAM

E2 E2 DIAGRAMMATIC



7 FIRE ALARM RISER DIAGRAM

E2 E2 DIAGRAMMATIC



8 PARTIAL FLOOR PLAN

E2 E2 SCALE: 1/4" = 1'-0"

0 2' 4' 8'
GRAPHIC SCALE

IF SHEET IS LESS THAN 28" X 40" IT IS A REDUCED PRINT SCALE REDUCED ACCORDINGLY

E-2

SYMBOL	DESCRIPTION	DATE	APPROVAL
	REVISIONS		

THE TSANG PARTNERSHIP, INC.

DSGN. NO | DR. DMN | CHK. MDB
SUPV. MDB | CH. ENGR. MDB
SUBMITTED BY | DATE
FOR NAVAL USE ONLY
E.I.C. | FIRE PROT.
SEC.HD. | DIV.HD.

DEPARTMENT OF THE NAVY
NAVAL AIR STATION, WHIDBEY ISLAND, WASHINGTON

SONOBUOY READY ISSUE BUILDING
NAS WHIDBEY ISLAND
FLOOR PLANS PANEL SCHEDULE DIAGRAMS

SATISFACTORY TO FIRE DIV. DIRECTOR — DATE 8/17/94
APPROVED FIRE DIRECTOR 11/28/94 — DATE 29 NOV 94 PUBLIC WORKS OFFICER

SIZE E | CODE IDENT. NO. 80009 | NAVFAC. DRAWING NO. 640737
CONST. CONTR. NO. N44255-94-C-7497
SCALE AS NOTED | SPEC. 2-94-7497 | SHEET 10 OF 10

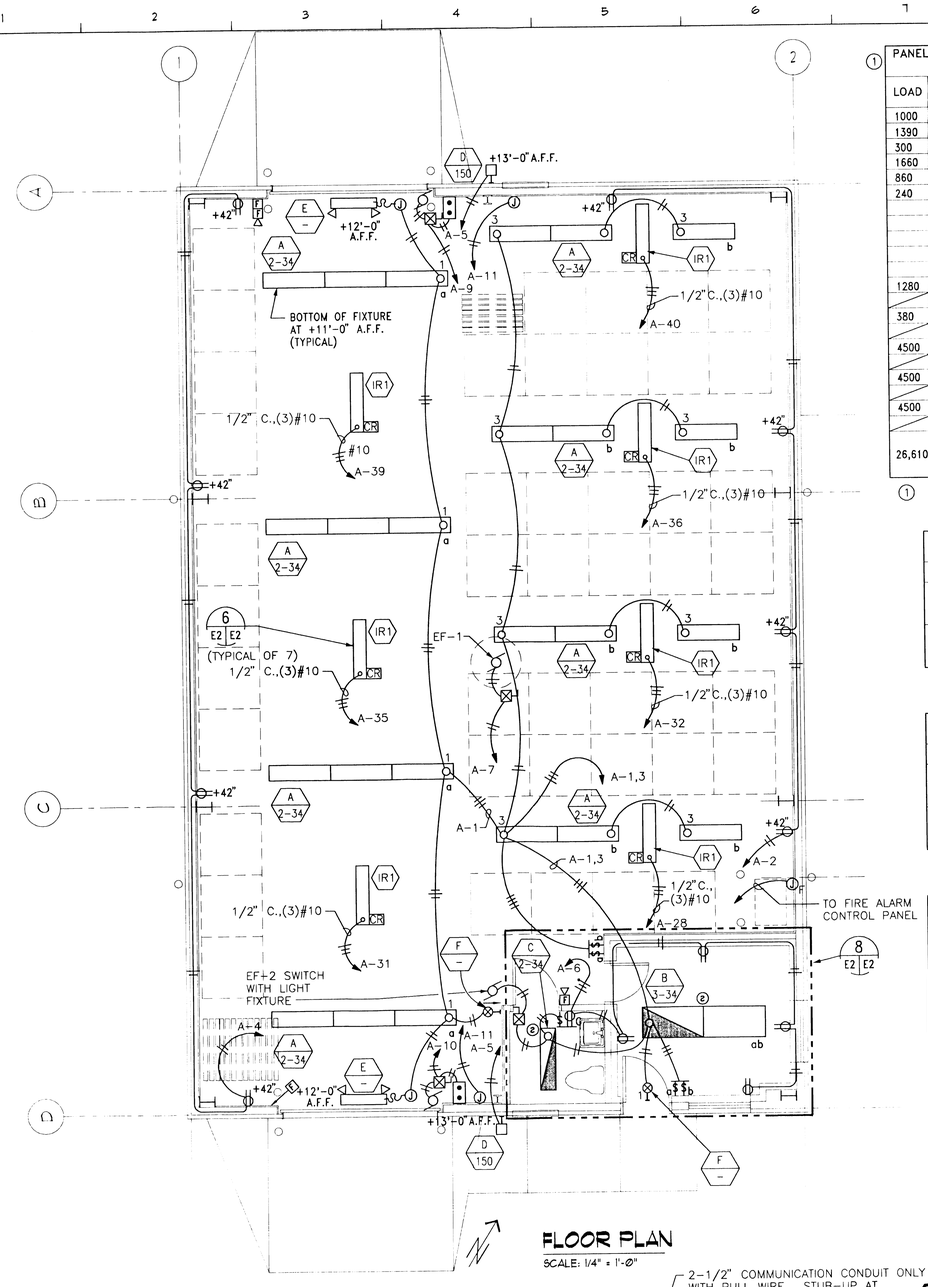
MICHAEL D. BITTNER — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER
EXPIRES 7/24/94

Sonobuoy Ready Issue Building
N44255-94-C-7731
10 of 10

LAN FILE COPY WHIDBEY

2786

Plot Date 08 10 94 Plot Time 3:00 pm Filename D:\DWGS 94046 94046E-2



FLOOR PLAN

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

(1) PANEL 'A' 3 PHASE 4 WIRE 120/208 VOLTS 225 AMPS MAIN BRKR
RECESSED MOUNT 42 POLES BOTTOM FEED AIC MIN.

LOAD	CIRCUIT DIRECTORY	CKT NO.	CKT BRKR	A	B	C	CKT BRKR	CKT NO.	CIRCUIT DIRECTORY	LOAD
1000	LIGHTING	1	1P-20A	•			1P-20A	2	RECEPTACLES	720
1390	LIGHTING & EXHAUST FAN #2	3	1P-20A		•		1P-20A	4	RECEPTACLES	720
300	EXTERIOR LIGHTING	5	1P-20A			•	1P-20A	6	RECEPTACLES	900
1660	EXHAUST FAN #1	7	1P-20A	•			1P-20A	8	SEWAGE PUMP	1180
860	ROLL-UP DOOR	9	1P-20A		•		1P-20A	10	ROLL-UP DOOR	860
240	LOUVER ACTUATORS	11	1P-20A			•	1P-20A	12	HEAT & VENT CONTROLS	500
	SPARE	13	1P-20A	•			1P-20A	14	SPARE	
	SPARE	15	1P-20A		•		1P-20A	16	SPARE	
	SPARE	17	1P-20A			•	1P-20A	18	SPARE	
	SPARE	19	1P-20A	•			1P-20A	20	SPARE	
	SPARE	21	1P-20A		•		1P-20A	22	SPARE	
1280	RADIANT PANEL	23	2P			•	2P	24	WATER HEATER	1500
		25	20A	•			20A	26		
380	BASEBOARD HEATER	27	2P		•		2P	28	INFRARED HEATER	4500
		29	20A			•	30A	30		
4500	INFRARED HEATER	31	2P	•			2P	32	INFRARED HEATER	4500
		33	30A		•		30A	34		
4500	INFRARED HEATER	35	2P			•	2P	36	INFRARED HEATER	4500
		37	30A	•			30A	38		
4500	INFRARED HEATER	39	2P		•		2P	40	INFRARED HEATER	4500
		41	30A			•	30A	42		
26,610	TOTAL VA 44,990						CURRENT 125 AMPS			24,380
	DEMAND VA 46,453						DEMAND CURRENT 129 AMPS			

(1) SERVICE ENTRANCE RATED

INFRARED HEATER SCHEDULE

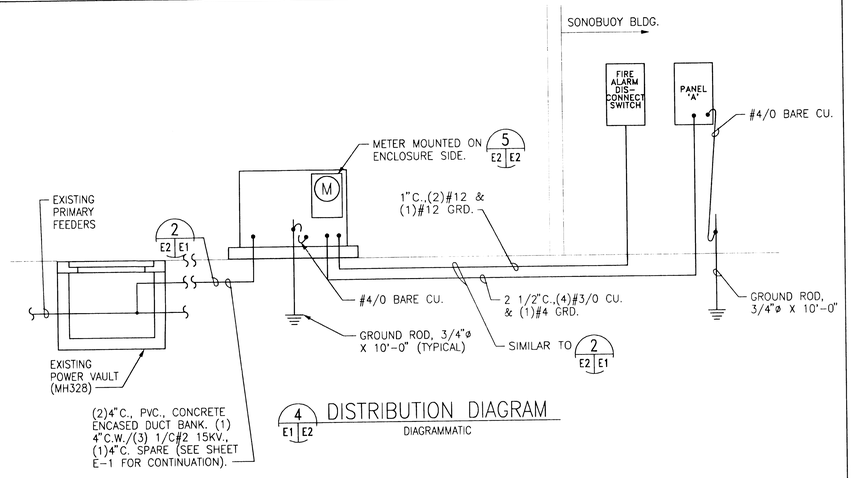
UNIT #	KW	VOLTS	PHASE	# OF ELEMENTS	BEAM SPREAD	REMARKS / COMMENTS
IR1	4.5	208	1	1	60° SYMMETRICAL	HANG FROM STRUCTURE WITH CHAIN. 11'-0" A.F.F. TO BOTTOM.

BASEBOARD HEATER SCHEDULE

UNIT #	KW	VOLTS	PHASE	BTU / HR	REMARKS / COMMENTS
BB1	.375	208	1	1281	COMMERCIAL DUTY BASEBOARD HEATER, PROVIDE WITH INTERGRAL THERMOSTAT.

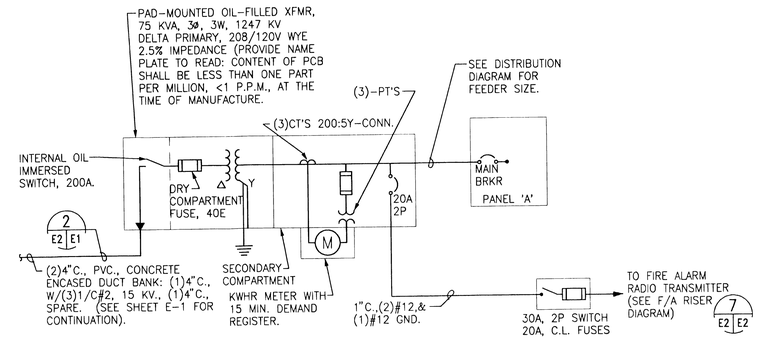
RADIANT HEATER SCHEDULE

UNIT #	KW	VOLTS	PHASE	BTU / HR	REMARKS / COMMENTS
RH1	1.28	208	1	4372	SURFACE MOUNT HEATING PANEL WITH EXTRUDED ALUMINUM FRAME.



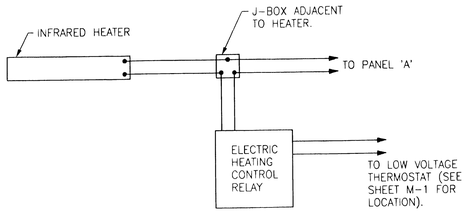
4 E1 E2 DISTRIBUTION DIAGRAM

DIAGRAMMATIC



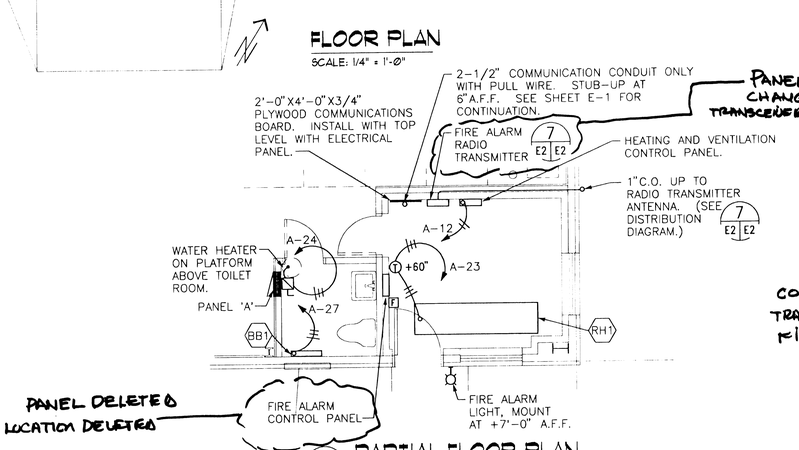
5 E2 E2 ONE-LINE DIAGRAM

DIAGRAMMATIC



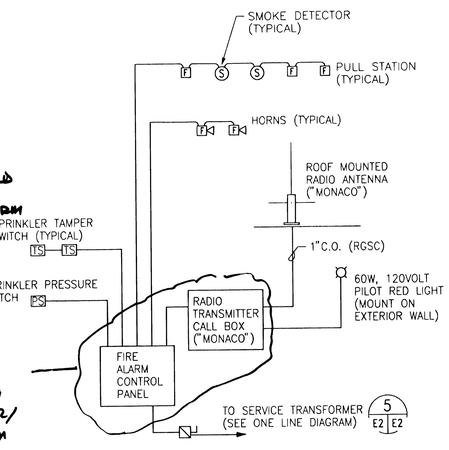
6 E2 E2 INFRARED HEATER CONTROL DIAGRAM

DIAGRAMMATIC



8 E2 E2 PARTIAL FLOOR PLAN

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



7 E2 E2 FIRE ALARM RISER DIAGRAM

DIAGRAMMATIC

0 2' 4' 8'
GRAPHIC SCALE

IF SHEET IS LESS THAN 28" X 40" IT IS A REDUCED PRINT SCALE REDUCED ACCORDINGLY

E-2

SYMBOL	DESCRIPTION	DATE	APPROVAL

REVISIONS

THE TSANG PARTNERSHIP, INC.

DEPARTMENT OF THE NAVY
NAVAL AIR STATION, WHIDBEY ISLAND, WASHINGTON

SONOBUOY READY ISSUE BUILDING
NAS WHIDBEY ISLAND
FLOOR PLANS / PANEL SCHEDULE DIAGRAMS

DSGN. NO | DR. DMN | CHK. MDB
SUPV. MDB | CH. ENGR. MDB
SUBMITTED BY | DATE
FIRM MEMBER (TITLE)
E.I.C. | FIRE PROT.
SEC.HD. | DIV.HD.
SATISFACTORY TO | DATE 8/17/97
TITLE
APPROVED | DATE 29 NOV 94
PUBLIC WORKS OFFICER

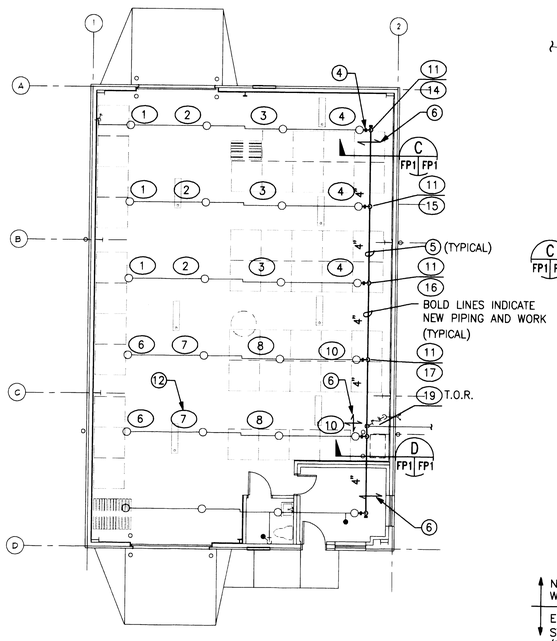
SIZE D | CODE IDENT. NO. 80091 | NAVFAC. DRAWING NO. 640737
CONST. CONTR. NO. N44255-94-C-7497
SCALE AS NOTED | SPEC. 12-94-7497 | SHEET 10 OF 10

DIV. DIRECTOR
FIRE INSPECTOR 11/28/94

EXPIRES 7/24/94

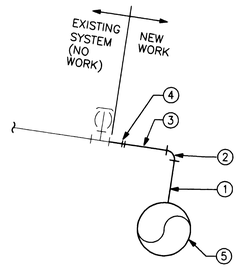
Sonobuoy Ready Issue Building
N44255-94-C-7731
10 of 10 w/chgs.

Plot Date 09/10/94 Plot Time 3:00 pm Filename D:\DWGS\94046\94046E-2



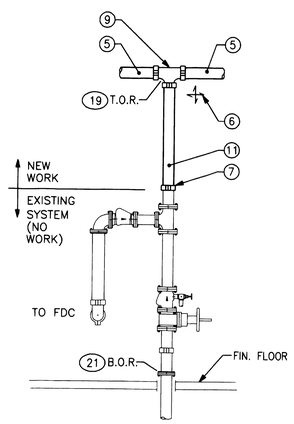
FIRE PROTECTION - PLAN

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



C FP1 FP1 TYPICAL PIPING SECTION

NO SCALE



D FP1 FP1 RISER SECTION

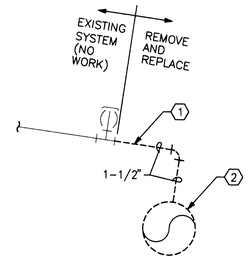
NO SCALE

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
X	HYDRAULIC CALCULATION REFERENCE POINT
XX	CONSTRUCTION NOTE CALLOUT
1	DEMOLITION NOTE CALLOUT
1 / 2 3	DETAIL NUMBER SHEET SHOWN ON SHEET TAKEN FROM
A / 2 3	SECTION/ELEVATION LETTER SHEET SHOWN ON SHEET TAKEN FROM

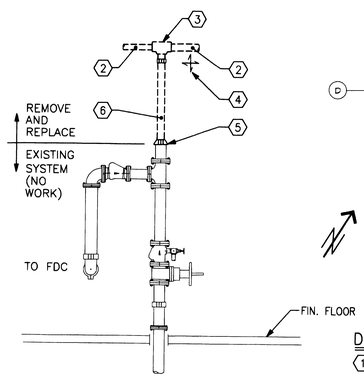
MECHANICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	GATE VALVE (GV)		PIPE DOWN
	EXISTING SPRAY SPRINKLER UPRIGHT (SSU)		PIPE UP
	EXISTING SPRAY SPRINKLER PENDANT (SSP)		BRANCH-TOP CONNECTION
	VICTAULIC COUPLING		BRANCH-BOTTOM CONNECTION
	VICTAULIC CAP		BRANCH-SIDE CONNECTION
			CAP END OF PIPE



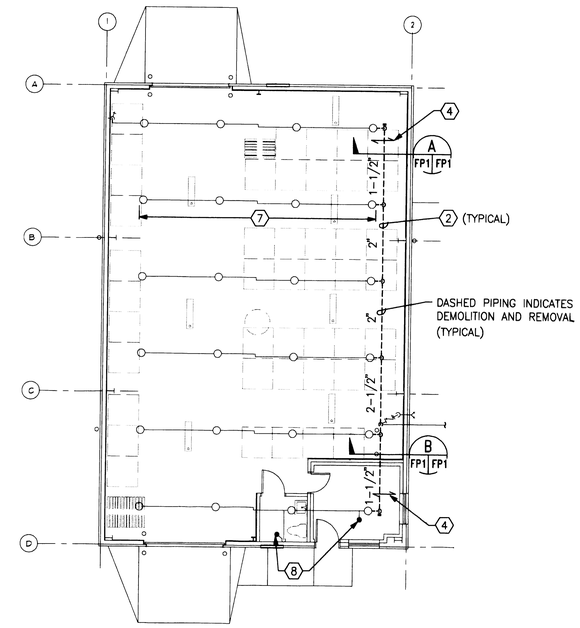
A FP1 FP1 TYPICAL PIPING SECTION

NO SCALE



B FP1 FP1 RISER SECTION

NO SCALE



FIRE PROTECTION - DEMOLITION PLAN

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

CONSTRUCTION NOTES

1. NEW 2" RISER NIPPLE
2. NEW 2" BCI 90°
3. NEW 2" STARTER PIECE
4. NEW 2x1½ VIC REDUCING COUPLING
5. NEW 4" CROSSMAIN
6. NEW SWAY BRACING
7. NEW 4" GROOVED COUPLING
8. NEW 4" RISER PIECE
9. NEW 4" GROOVED TEE
10. NEW THREAD BY GROOVE PIPING
11. NEW 4" RISER PIECE
12. HYDRAULIC CALCULATION REFERENCE POINT (TYPICAL)

DEMOLITION NOTES:

1. SAWZALL (PORTA-BAND) FIRST PIECE OF BRANCHLINE AND BACK OUT REMAINING PIPE IN THE EXISTING BRANCHLINE AND CROSSMAIN.
2. BACK OUT CROSS MAINS.
3. REMOVE 2½x2x2½ SCREWED TEE
4. REMOVE SWAY BRACING
5. REMOVE 4x2½ REDUCING VIC COUPLING
6. REMOVE 2½" RISER PIECE
7. EXISTING BRANCH LINE TO REMAIN (TYPICAL OF 6)
8. SPRAY SPRINKLER PENDANT TO REMAIN

0 4' 8' 16'
GRAPHIC SCALE

IF SHEET IS LESS THAN 28" X 40" IT IS A REDUCED PRINT SCALE REDUCED ACCORDINGLY

FP-1

SYMBOL	DESCRIPTION	DATE	APPROVAL

REVISIONS

DEPARTMENT OF THE NAVY
NAVAL AIR STATION, WHIDBEY ISLAND, WASHINGTON

DSGN. BAM DR. BAM CHK. JSC
SUPV. CH. ENGR.
SUBMITTED BY DATE
FIRM NUMBER (TITLE)
E.I.C. FIRE PROT.
SEC.HD. DIV.HD.
SATISFACTORY TO DATE
TITLE
APPROVED DATE
PUBLIC WORKS OFFICER

DIV DIRECTOR
PWC DIRECTOR

SONOBUOY READY ISSUE BUILDING
NAS WHIDBEY ISLAND
DEMO PLAN, FIRE PROTECTION
FLOOR PLAN, SECTIONS AND NOTES

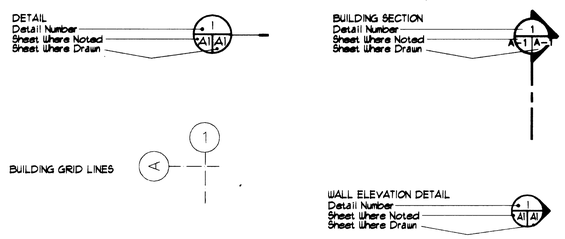
SIZE | CODE INDENT. NO. | NAVFAC. DRAWING NO.
CONST. CONTR. NO.
SCALE AS NOTED | SPEC. | SHEET 1 OF 1

2786

1 of 1

2786

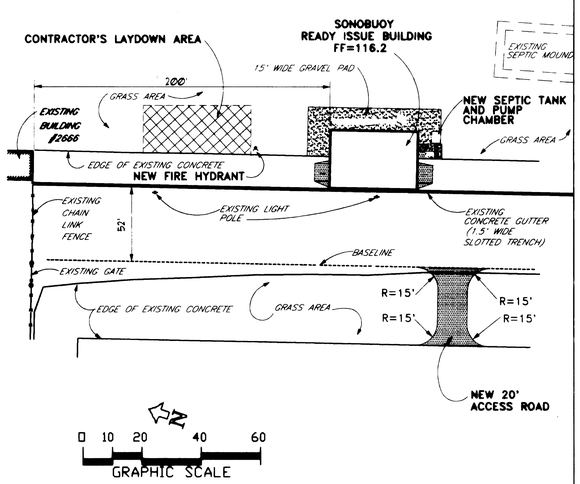
SYMBOLS LEGEND



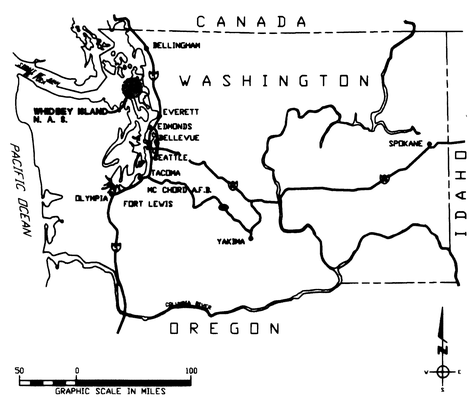
DRAWING INDEX

SHT. NO.	SHEET TITLE	NAVFAC DWG. NO.
G-1	COVER SHEET	6410728
C-1	GRADING, STORM DRAINAGE, SEWER AND WATER PLAN	6410729
C-2	PAVING, STORM DRAINAGE, SEWER AND WATER DETAILS	6410730
A-1	FLOOR PLAN, BUILDING SECTION, BUILDING ELEVATIONS	6410731
A-2	DETAILS	6410732
S-1	FOUNDATION PLAN, DETAILS	6410733
S-2	FRAMING, DETAILS	6410734
M-1	MECHANICAL LEGEND, PLANS, DETAILS AND SCHEDULES	6410735
E-1	SITE PLAN, LEGEND, ABBREVIATIONS LIGHTING FIXTURE SCHEDULE	6410736
E-2	FLOOR PLANS, PANEL SCHEDULE, DIAGRAMS	6410737

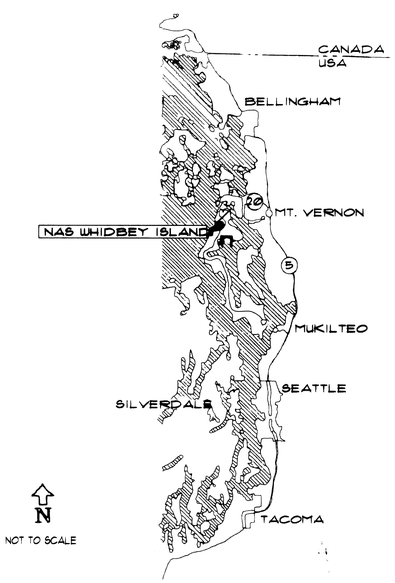
SITE PLAN



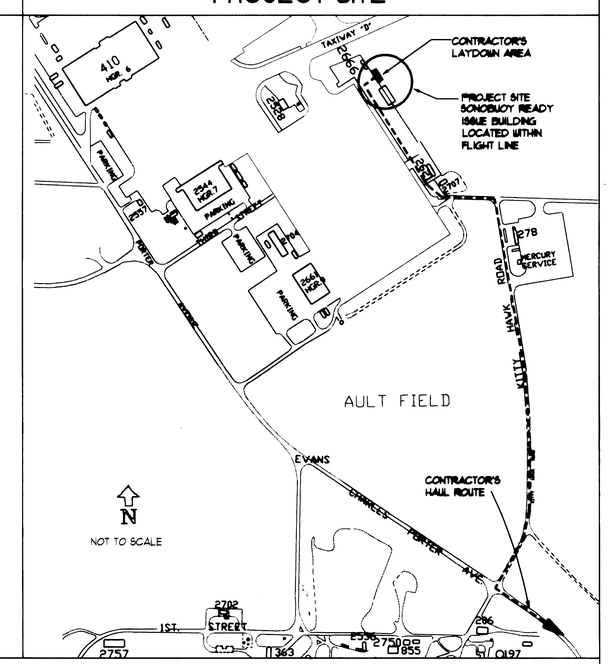
LOCATION MAP



VICINITY MAP



PROJECT SITE



SONOBUOY READY ISSUE BUILDING

N.A.S. WHIDBEY ISLAND, WASHINGTON

SPECIAL PROJECT NO. C21-93

REGISTERED ARCHITECT 3005 JAMES C. TSANG STATE OF WASHINGTON

IF SHEET IS LESS THAN 36" X 48" IT IS A REDUCED PRINT SCALE REDUCED ACCORDINGLY

G-1

SYMBOL	DESCRIPTION	DATE	APPROVAL
	REVISIONS		

THE TSANG PARTNERSHIP, INC.

DEPARTMENT OF THE NAVY
NAVAL AIR STATION, WHIDBEY ISLAND, WASHINGTON

DSGN. GMK DR. GMK CHK. DG
SUPV. CH. ENGR.
SUBMITTED BY DATE 08-17-1994
FIRM MEMBER (TITLE)
E.I.C. FIRE PROT.
SEC.HD. DIV.HD.

SONOBUOY READY ISSUE BUILDING

COVER SHEET

Ref memo dtd 15 Aug 94

ENV DIRECTOR — SATISFACTORY TO — TITLE — DATE 8/17/94

PW DIRECTOR — APPROVED — PUBLIC WORKS OFFICER — DATE 23/10/94

SIZE	CODE IDENT. NO.	NAVFAC. DRAWING NO. 6410728
F	80091	CONST. CONTR. NO. N44255-94-C-7497
SCALE AS NOTED	SPEC. 12-94-7497	SHEET 1 OF 10

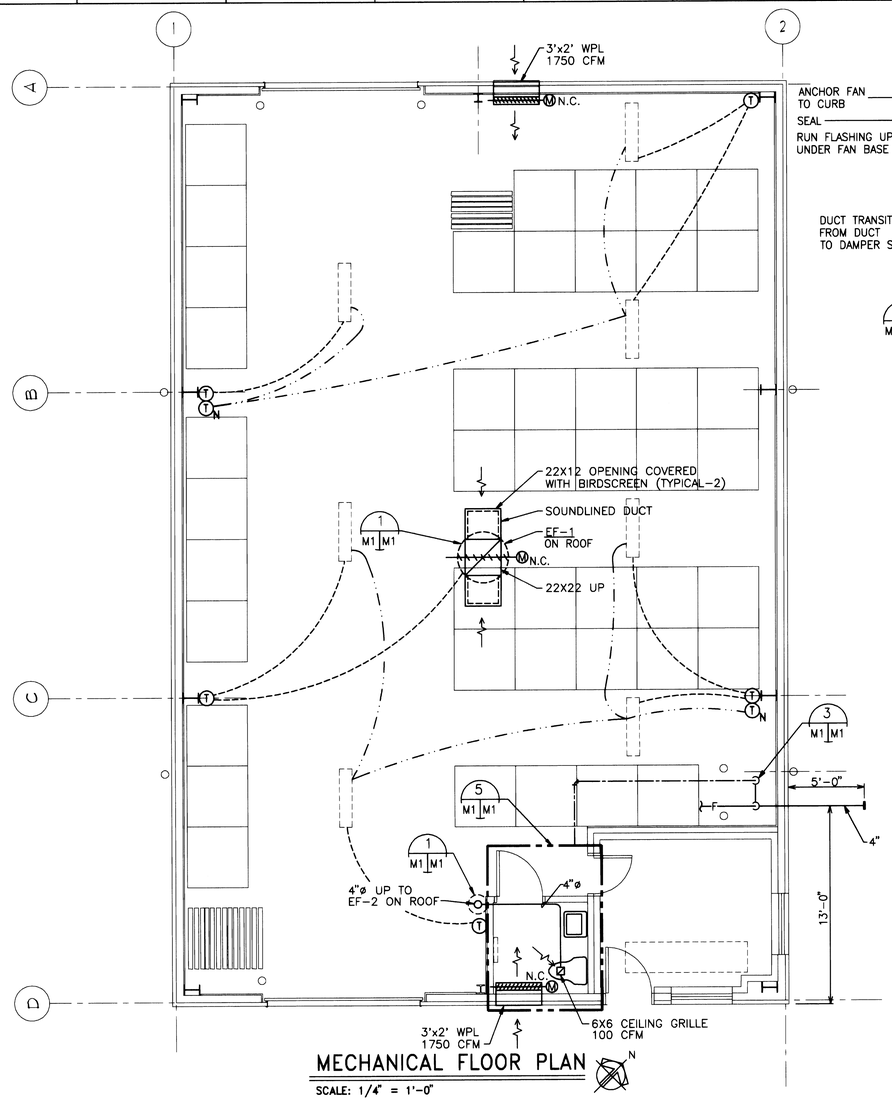
Plot Date 08/11/94 Plot Time 10:50 am Filename:C:\ACAD\WHIDSONO\SON-G1

Sonobuoy Ready Issue Building N44255-94-C-7731 1 of 10

6410728

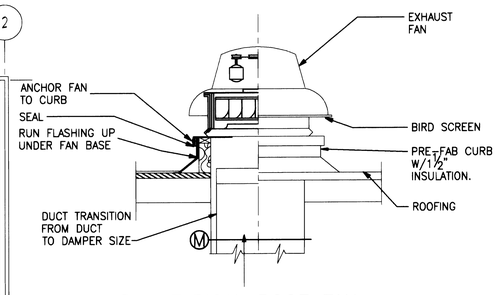
2786

BLDG 2786



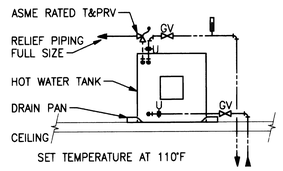
MECHANICAL FLOOR PLAN

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



1 M1 M1 TYPICAL ROOF FAN INSTALLATION DETAIL

NOT TO SCALE



2 M1 M1 HOT WATER TANK PIPING DIAGRAM

DIAGRAMMATIC

MECHANICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	COLD WATER (C.W.)		PIPE DOWN
	HOT WATER (H.W.)		PIPE UP
	WASTE OR SAN. SEWER		BRANCH-TOP CONNECTION
	VENT (V.)		BRANCH-BOTTOM CONNECTION
F	FIRE MAIN / FIRE SPRINKLER PIPING		BRANCH-SIDE CONNECTION
	GATE VALVE (G.V.)		CAP END OF PIPE
	GLOBE VALVE		FLOW DIRECTION
	PRESS. REDUCING VALVE (P.R.V.)		VALVE IN RISER
	TEMP./PRES. RELIEF VALVE (T.&P.V.)		VENT THRU ROOF (V.T.R.)
	BALL VALVE		CLEAN OUT (C.O.)
	FREEZEPROOF WALL HYDRANT (F.W.H.)		FLUSH/SURFACE C.O. (FCO/SCO)
	EXHAUST/RETURN AIR-DUCT UP		WALL CLEAN OUT (W.C.O.)
	EXHAUST/RETURN AIR-DUCT DOWN	DS	DOWNSPOUT
12 X 12 CD 200 CFM	AIR TERMINAL SIZE, TYPE & CFM		FLOOR DRAIN (F.D.)
	CEILING AIR TERMINAL - SQUARE		FLEXIBLE CONNECTION (PIPE)
M	MOTORIZED DAMPER		STRAINER
	FIRE DAMPER (FI.D.)		UNION
M.C.	MECHANICAL CONTRACTOR		PRESSURE GAUGE
E.C.	ELECTRICAL CONTRACTOR		THERMOMETER
G.C.	GENERAL CONTRACTOR		DRAIN VALVE
A.F.F.	ABOVE FINISHED FLOOR	T G	THERMOSTAT W/ GUARD
N.C.	NORMALLY CLOSED		CHECK VALVE
T	THERMOSTAT (T.STAT)	WPL	WEATHER PROOF LOUVER
T_N	THERMOSTAT (NIGHT MODE)		FIRE DEPARTMENT CONNECTION (FDC)

WAREHOUSE H & V - SEQUENCE OF OPERATION

TIMING:

TIMING SHALL BE CONTROLLED BY AN ELECTRONIC, PROGRAMMABLE TIME CLOCK. OCCUPIED MODE OF OPERATION SHALL BE FROM 0700 HRS TO 1700 HRS, MONDAY THROUGH FRIDAY. UNOCCUPIED MODE OF OPERATION SHALL BE ANY OTHER TIME, NIGHT MODE.

SETPOINTS:

OCCUPIED MODE: HEATING = 65 DEG.F COOLING 75 DEG.F
UNOCCUPIED MODE: HEATING = 50 DEG.F COOLING 80 DEG.F

H & V CONTROL:

THE EXHAUST FAN SHALL PROVIDE OUTDOOR VENTILATION WHEN LOCAL CONTROLLING THERMOSTAT COOLING SETPOINT IS REACHED. FAN SHALL DEACTIVATE WHEN SPACE TEMPERATURE FALLS 5 DEG.F BELOW COOLING SETPOINT.

THE RADIANT HEATER PANELS SHALL PROVIDE HEAT WHEN SPACE TEMPERATURE FALLS 5 DEG.F BELOW LOCAL CONTROLLING THERMOSTAT HEATING SETPOINT. HEATING SHALL DEACTIVATE WHEN SPACE TEMPERATURE SETPOINT IS REACHED.

CONTRACTOR SHALL RUN LOW VOLTAGE (24 VAC) FROM THERMOSTATS TO RELAY LOCATED IN EACH RADIANT HEAT PANEL J-BOX. (SEE DRAWING E-2). TWO SETS OF HEATING COOLING SETPOINTS CAN BE HANDLED WITH TWO THERMOSTATS, SWITCHED BY TIME CLOCK CONTROL.

WAREHOUSE EXHAUST FAN CONTROL

WHEN THE WAREHOUSE EXHAUST FAN IS ACTIVATED, THE BUILDING TWO OUTSIDE AIR DAMPERS SHALL OPEN AS WELL AS THE EXHAUST FAN INLET DAMPER.

WHEN THE WAREHOUSE EXHAUST FAN IS DEACTIVATED, THE BUILDING TWO OUTSIDE AIR DAMPERS SHALL CLOSE AS WELL AS THE EXHAUST FAN INLET DAMPER.

TOILET EXHAUST FAN CONTROL

THE TOILET EXHAUST FAN SHALL BE INTERLOCKED WITH THE TOILET ROOM LIGHT SWITCH SO THAT THE EXHAUST FAN RUNS WHEN THE LIGHT SWITCH IS IN THE ON POSITION.

THE TOILET EXHAUST FAN SHALL BE INHIBITED FROM RUNNING WHEN THE BUILDING IS IN UNOCCUPIED MODE.

TOILET ROOM HEATING CONTROL

THE BASEBOARD HEATER SHALL OPERATE WITH AN INTEGRAL THERMOSTAT. (SEE DRAWING E-2). CONTRACTOR TO SET THERMOSTAT AT 68 DEG.F.

OFFICE HEATING CONTROL

THE CEILING RADIANT HEATER PANEL SHALL OPERATE WITH A REMOTE LINE VOLTAGE THERMOSTAT PROVIDED BY THE PANEL MANUFACTURER. (SEE DRAWING E-2). CONTRACTOR TO SET THERMOSTAT AT 68 DEG.F.

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	MOUNTING	W	V	HW	CW	
P-1	WATER CLOSET	FLOOR	4"	2"	-	1"	
P-2	LAVATORY	WALL	2"	1½"	½"	½"	

WATER HEATER SCHEDULE

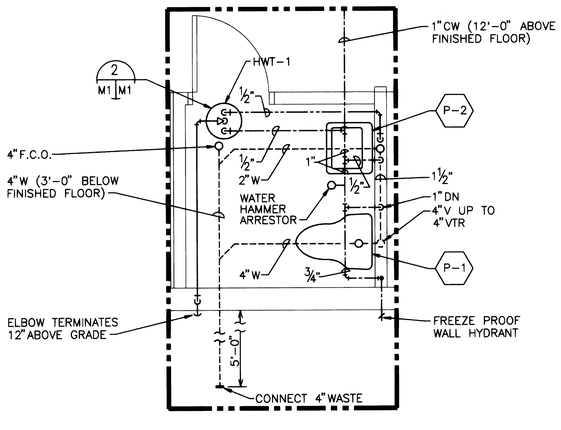
SYMBOL	SIZE	POWER KW/MBH	VOLTS	ø	LOCATION
HWT-1	6 GAL	1.5	120	1	ABOVE TOILET ROOM CEILING

EXHAUST FAN SCHEDULE

FAN	CONFIG.	AREA SERVED	PERFORMANCE CFM	SP	RPM	MOTOR WATT/HP	V	PH	BACK DRAFT DMPR.	SPEED CONTROL	INTERLOCK WITH	REMARKS
EF-1	ROOF	WAREHOUSE	3500	0.125	895	-/0.75	120	1	NO	NO	DAMPERS	1
EF-2	ROOF	TOILET	100	0.250	1000	80/-	120	1	YES	YES	SWITCHED	1,2

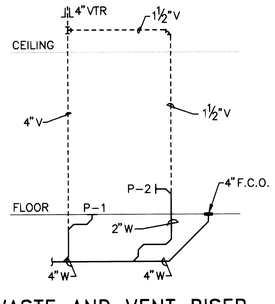
NOTES FOR EXHAUST FAN SCHEDULE

1. ALL EXHAUST FANS TO BE FACTORY WIRED FROM MOTOR TO DISCONNECT SWITCH ON FAN ENCLOSURE.
2. FAN INTERLOCK WITH LIGHT SWITCH.



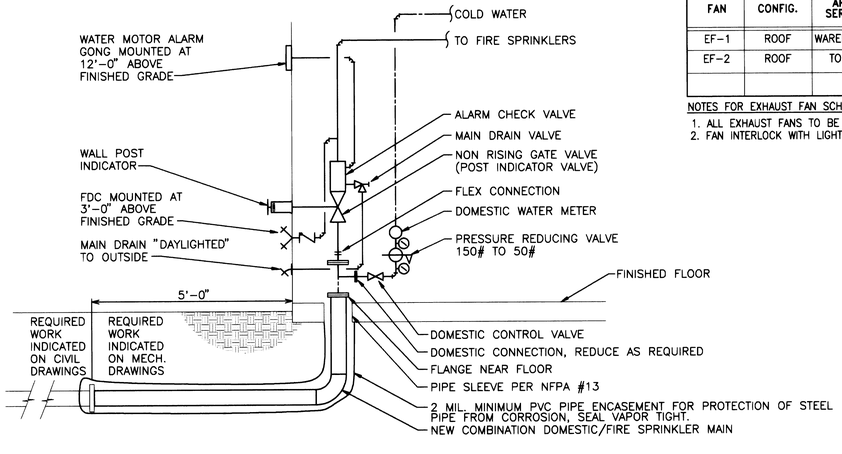
5 M1 M1 TOILET ROOM - PARTIAL PLUMBING PLAN

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



4 M1 M1 WASTE AND VENT RISER

DIAGRAMMATIC



3 M1 M1 FIRE SPRINKLER RISER DIAGRAM

NOT TO SCALE

GRAPHIC SCALE 0 2' 4' 8'

SCOTT CRICK STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER
EXPIRES 10-5-95

IF SHEET IS LESS THAN 28" X 40" IT IS A REDUCED PRINT SCALE REDUCED ACCORDINGLY

M-1

SYMBOL	DESCRIPTION	DATE	APPROVAL

REVISIONS

THE TSANG PARTNERSHIP, INC.

DEPARTMENT OF THE NAVY
NAVAL AIR STATION, WHIDBEY ISLAND, WASHINGTON

DSGN. JEH | DR. BAM | CHK. JEH
SUPV. | CH. ENGR. JSC
SUBMITTED BY | DATE
FOR ENGINEER CHIEF
E.I.C. | FIRE PROT.
SEC.HD. | DIV.HD.
SATISFACTORY TO | DATE
FOR CHIEF, CEC
APPROVED | DATE
PUBLIC WORKS OFFICER

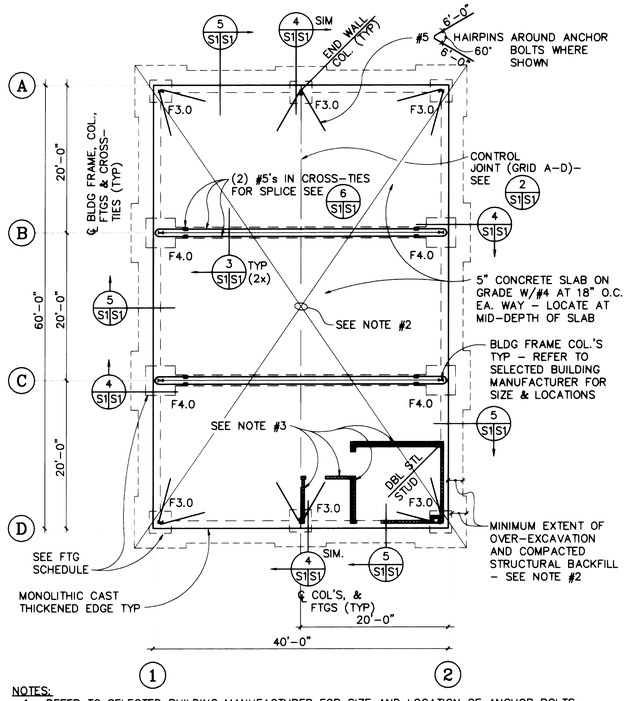
SONOBUOY READY ISSUE BUILDING
NAS WHIDBEY ISLAND
MECHANICAL LEGEND, PLANS, DETAILS AND SCHEDULES

SIZE F | CODE IDENT. NO. 80091 | NAVFAC. DRAWING NO. 6410735
CONST. CONTR. NO. N44255-94-C-7491
SCALE AS NOTED | SPEC. 12-94-7491 | SHEET 8 OF 10

Sonobuoy Ready Issue Building
N44255-94-C-7731
8 of 10

6410735

2786



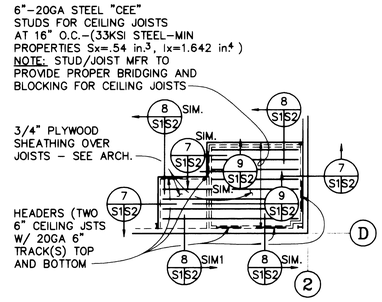
NOTES:

1. REFER TO SELECTED BUILDING MANUFACTURER FOR SIZE AND LOCATION OF ANCHOR BOLTS.
2. OVER-EXCAVATE FOR 4'-0" MINIMUM BELOW AND 4'-0" MINIMUM BEYOND PERIMETER OF SPREAD FOOTINGS AT PERIMETER OF BUILDING. OVER-EXCAVATE FOR 2'-0" MINIMUM BELOW AND 2'-0" MINIMUM BEYOND INT. AND EXT. EDGE OF THICKENED SLAB FOOTINGS AT PERIMETER OF BUILDING AND 2'-0" MINIMUM BELOW INTERIOR SLAB. BACKFILL WITH COMPACTED STRUCTURAL FILL AT AREAS OF OVER-EXCAVATION ALL IN ACCORDANCE WITH SPECIFICATIONS.
3. SINGLE OR DBL. STUD WALL(S) OF 3⅝"-24 GA STEEL STUDS AT 16" O.C.. FOR TYPICAL WALL CONSTRUCTION DETAILS SEE ELEVATION 1 S1S2 .

FOUNDATION PLAN

1/8"=1'-0"

CALLED NORTH



PARTIAL CEILING PLAN

1/8"=1'-0"

CALLED NORTH

SPREAD FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F3.0	3'-0"x3'-0"x1'-0"	(3)#5 EA WAY
F4.0	4'-0"x4'-0"x1'-0"	(4)#5 EA WAY

SCHEDULE

NO SCALE

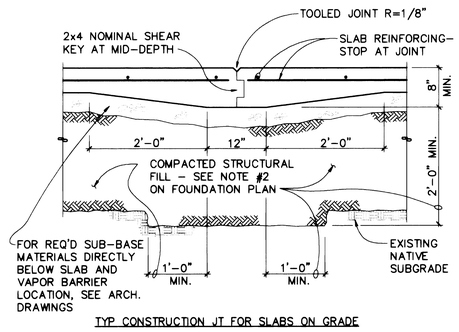
1 S1 S1

GENERAL NOTES

1. DESIGN LOADS AND CRITERIA
   - A. GENERAL - DESIGN AND CONSTRUCTION SHALL CONFORM TO TM5-809 SERIES AND ANSI 58.1, 1982.
   - B. BASIC WIND SPEED 80 MPH, EXPOSURE C. IMPORTANCE COEFFICIENT = 1.0.
   - C. GROUND SNOW LOAD 20 PSF. ROOF SNOW LOAD 25 PSF MINIMUM.
   - D. SEISMIC ZONE 3, Z = .75
   - E. SLABS ON GRADE UNIFORM LIVE LOAD 250 PSF.
2. FOUNDATIONS
   - A. ALLOWABLE BEARING PRESSURE 1500 PSF PLUS 33% INCREASE ALLOWED FOR TEMPORARY LOADS INCLUDING SEISMIC. BEARING PRESSURE APPLICABLE ON COMPACTED STRUCTURAL FILL AS INDICATED IN SPECIFICATIONS.
3. CONCRETE - IN ACCORDANCE WITH ACI 318.
   - A. COMPRESSIVE STRENGTH - F'C = 4000 PSI AT 28 DAYS
4. REINFORCEMENT STEEL
   - A. YIELD STRENGTH: RE-STEEL 60,000 PSI. ASTM A-615, GRADE 60.
   - B. MINIMUM COVER: ACI 318
5. STRUCTURAL STEEL
   - A. STEEL SHAPES AND PLATES: ASTM A36, Fy = 36,000 PSI.
   - B. ANCHOR BOLTS: ASTM A307 MINIMUM
6. WELDING
   - A. WELDING SHALL BE IN ACCORDANCE WITH "STRUCTURAL WELDING CODE" AWS D-1.1.
   - B. USE E70 ELECTRODES
7. PRE-ENGINEERED METAL BUILDING:

   THE METAL BUILDING STRUCTURE SHALL BE A PRE-MANUFACTURED, PRE-ENGINEERED (OR CUSTOM DESIGNED-BUILD) METAL BUILDING STRUCTURE TO MEET REQUIREMENTS OF THE CONTRACT DOCUMENTS AND SPECIFICATIONS. THE STRUCTURE SHALL BE DESIGNED TO MEET THE DESIGN LOAD CRITERIA LISTED UNDER "DESIGN LOADS AND CRITERIA" OF THESE GENERAL NOTES. DESIGN METAL BUILDING SYSTEM FOR ALL APPLICABLE DEAD, LIVE, WIND, SEISMIC, AUXILLARY AND COLLATERAL LOADS IN ACCORDANCE WITH LOAD APPLICATION METHODS AND DESIGN STANDARDS. BASE STRUCTURAL ANALYSIS ON ASSUMPTIONS OF ELASTIC BEHAVIOR ONLY. DESIGN TO CONSIDER ALL LOADING VALUES AND COMBINATIONS REQUIRED BY THE APPLICABLE CODES AND REQUIREMENTS. ASSUMPTIONS OF COMPOSITE ACTION BY PANEL AND STRUCTURAL MEMBER WILL NOT BE PERMITTED. EXTERIOR WALL AND ROOF SYSTEM TO WITHSTAND IMPOSED LOADS WITH MAXIMUM ALLOWABLE DEFLECTION OF SPAN: L/180. THE LATERAL LOADS IMPOSED ON THE STRUCTURE SHALL BE RESISTED BY ROD BRACING, ETC., (IN THE ROOF AND/OR APPLICABLE WALLS) AND STEEL FRAMES AS DESIGNED BY BLDG. MANUFACTURER. CALCULATIONS FOR DESIGN AND SHOP DRAWINGS OF BLDG. SHALL BE STAMPED BY A PROFESSIONAL ENGINEER, LICENSED AS SUCH IN THE STATE OF WASHINGTON. BUILDING MANUFACTURER AND DESIGNER SHALL UTILIZE FOUNDATIONS INDICATED IN PLANS.
8. LIGHT-GAUGE METAL FRAMING:

   FRAMING MEMBERS SHALL BE OF THE TYPE, SIZE AND GAUGE AS SHOWN ON THE PLANS. ALL 16 GAUGE AND HEAVIER GALVANIZED STRUCTURAL MEMBERS SHALL BE FORMED FROM STEEL THAT MEETS THE REQUIREMENTS OF ASTM A-446, GRADE D, MINIMUM 50 KSI YIELD. ALL 18 GAUGE AND LIGHTER GALVANIZED STRUCTURAL MEMBERS SHALL BE FORMED FROM STEEL THAT MEETS THE REQUIREMENTS OF ASTM A-446, GRADE A, MINIMUM 33 KSI YIELD. BRIDGING PER MANUFACTURER'S REQUIREMENTS SHALL BE IN PLACE PRIOR TO PLACING OF ANY CONSTRUCTION LOADS. ALL RUNS SHALL BE RIGIDLY ANCHORED TO END WALLS. ALL STUDS, JOISTS AND ACCESSORIES SHALL BE PRIMED WITH RUST-INHIBITIVE PAINT MEETING THE PERFORMANCE REQUIREMENTS OF TT-P-636C, OR SHALL BE FORMED FROM STEEL HAVING A G-60 GALVANIZED COATING.

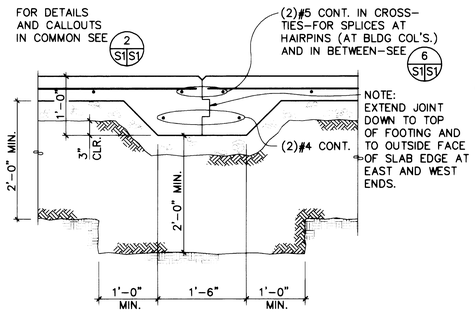


TYP CONSTRUCTION JT FOR SLABS ON GRADE

SECTION

1"=1'-0"

2 S1 S1

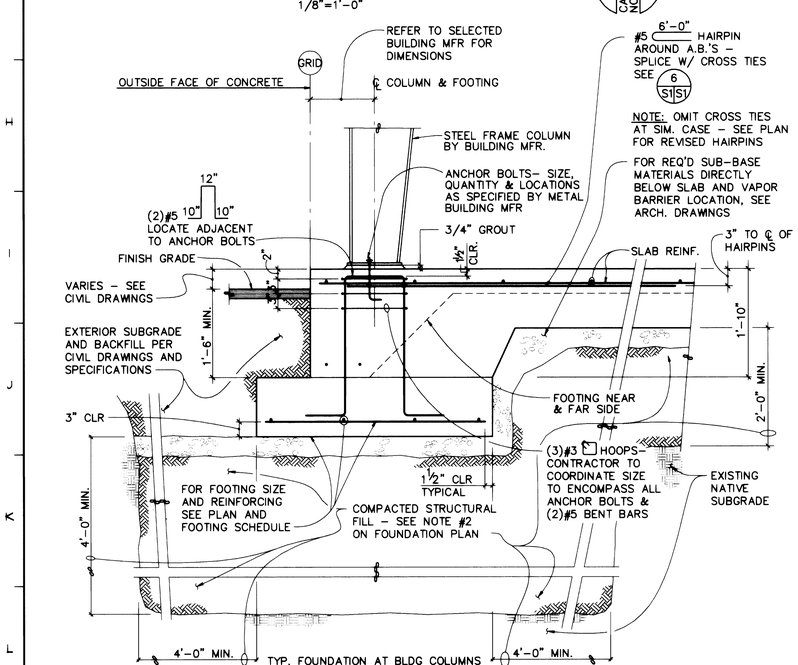


TYPICAL CROSS-TIES

SECTION

1"=1'-0"

3 S1 S1



TYP. FOUNDATION AT BLDG COLUMNS

SECTION

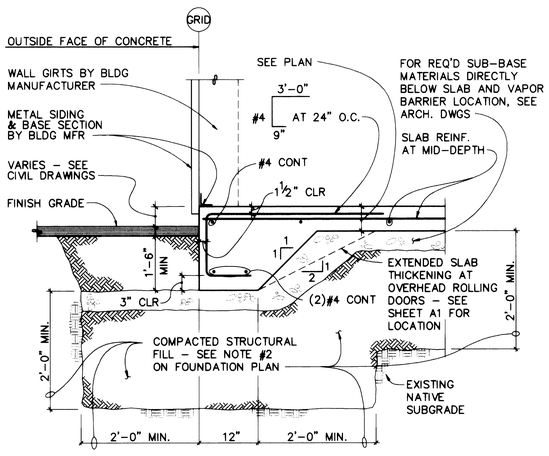
1"=1'-0"

4 S1 S1

NOTE: OMIT CROSS TIES AT SIM. CASE - SEE PLAN FOR REVISED HAIRPINS

FOR REQ'D SUB-BASE MATERIALS DIRECTLY BELOW SLAB AND VAPOR BARRIER LOCATION, SEE ARCH. DRAWINGS

3" TO ℄ OF HAIRPINS

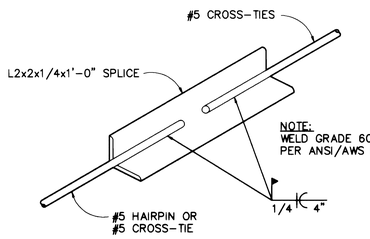


TYP PERIMETER FOOTING BETWEEN COLUMN FOOTINGS

SECTION

1"=1'-0"

5 S1 S1

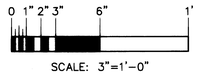


TYPICAL SPLICE AT CROSS-TIES

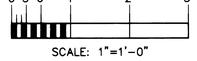
SECTION

3"=1'-0"

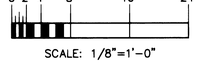
6 S1 S1



SCALE: 3"=1'-0"



SCALE: 1"=1'-0"



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

IF SHEET IS LESS THAN 28" X 40" IT IS A REDUCED PRINT SCALE REDUCED ACCORDINGLY

S-1

SYMBOL	DESCRIPTION	DATE	APPROVAL

REVISIONS

THE TSANG PARTNERSHIP, INC.

DSGN. RES DR. SF/AG CHK. RES

SUPV. CH. ENGR.

SUBMITTED BY DATE

FIRM NUMBER (TITLE)

E.I.C. FIRE PROT.

SEC.HD. DIV.HD.

SAT/REACTORY TO DATE 8/17/94

APPROVED DATE

ENV DIRECTOR

PM DIRECTOR 11/28/94

CHALKER PUTNAM COLLINS & SCOTT

CONSULTING STRUCTURAL ENGINEERS

DEPARTMENT OF THE NAVY

NAVAL AIR STATION, WHIDBEY ISLAND, WASHINGTON

SONOBUOY READY ISSUE BUILDING

NAS WHIDBEY ISLAND

FOUNDATION PLAN

DETAILS

SIZE F CODE IDENT. NO. 80091 NAVFAC DRAWING NO. 6400733

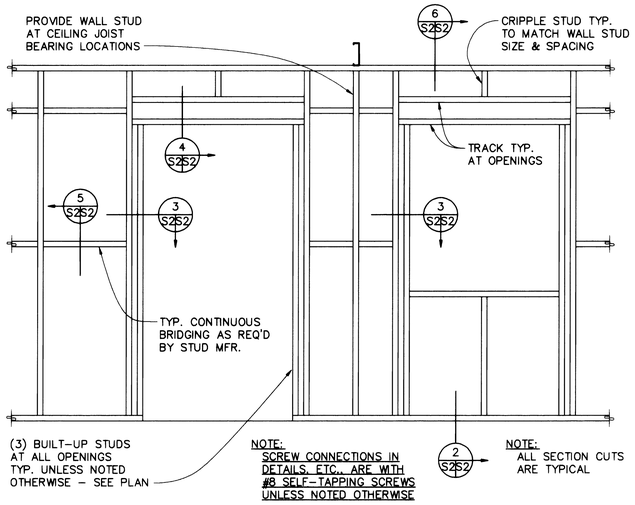
CONST. CONTR. NO. N44255-94-C-7497

SCALE AS NOTED SPEC. 12-94-7497 SHEET 6 OF 10

93-367.06

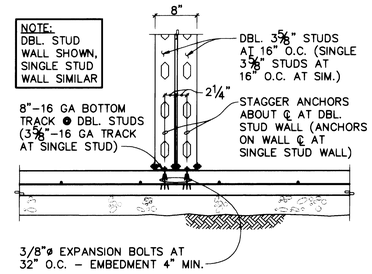
Sonobuoy Ready Issue Building N44255-94-C-7731 6 of 10

2786



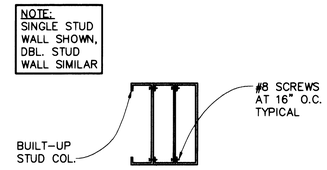
TYPICAL STEEL STUD WALL ELEVATION

ELEVATION 1 S1S2
NO SCALE



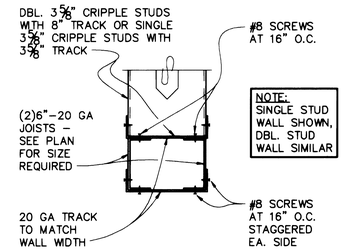
TYPICAL BOTTOM OF WALL TRACK

SECTION 2 S2S2
NO SCALE



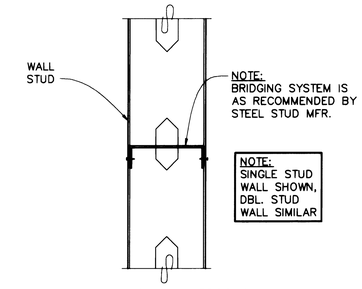
TYPICAL JAMB AT OPENING

SECTION 3 S2S2
NO SCALE



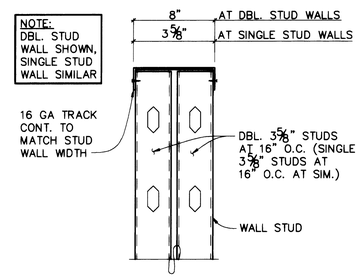
TYPICAL HEADER

SECTION 4 S2S2
NO SCALE



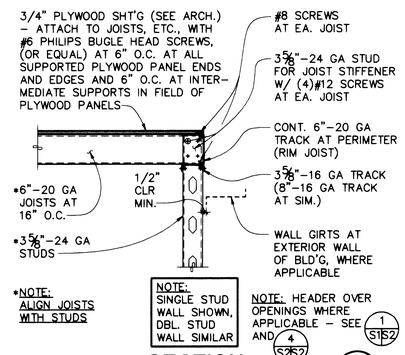
TYPICAL WALL BRIDGING

SECTION 5 S2S2
NO SCALE

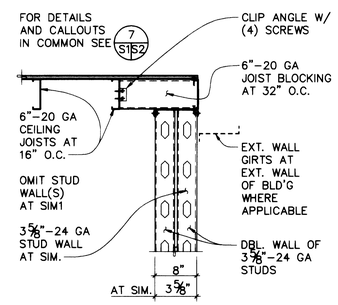


TYPICAL TOP OF WALL TRACK

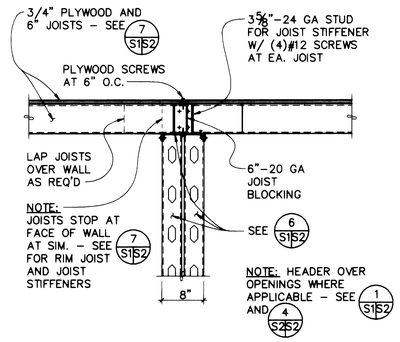
SECTION 6 S2S2
NO SCALE



SECTION 7 S1S2
1"=1'-0"



SECTION 8 S1S2
1"=1'-0"



SECTION 9 S1S2
1"=1'-0"

ABBREVIATIONS

&	=	AND	FDN	=	FOUNDATION
@	=	AT	FTG	=	FOOTING
℄	=	CENTERLINE	GA	=	GAUGE
ø	=	DIAMETER	GB	=	GRADE BEAM
PL	=	PLATE	HORIZ.	=	HORIZONTAL
#	=	POUND	IN.	=	INCH
A.B.	=	ANCHOR BOLT	INT.	=	INTERIOR
ACI	=	AMERICAN CONCRETE INSTITUTE	KSI	=	KIPS PER SQUARE INCH
ADDL	=	ADDITIONAL	MAX.	=	MAXIMUM
ASTM	=	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MFR	=	MANUFACTURER
			MIN.	=	MINIMUM
			MPH	=	MILES PER HOUR
AWS	=	AMERICAN WELDING SOCIETY	O.C.	=	ON CENTER
			OPN'G	=	OPENING
ARCH.	=	ARCHITECT	OPP.	=	OPPOSITE
ANSI	=	AMERICAN NATIONAL STANDARDS INSTITUTE	PSF	=	POUNDS PER SQUARE FOOT
BLDG	=	BUILDING	PSI	=	POUNDS PER SQUARE INCH
BM	=	BEAM			
BOT.	=	BOTTOM	REINF.	=	REINFORCING
BRG	=	BEARING	REQ'D	=	REQUIRED
BTWN	=	BETWEEN	RF	=	ROOF
CLR	=	CLEAR	SHT'G	=	SHEATHING
COL.	=	COLUMN	SIM.	=	SIMILAR
CONC.	=	CONCRETE	SOG	=	SLAB ON GRADE
CONN	=	CONNECTION	SPECS	=	SPECIFICATIONS
CONST.	=	CONSTRUCTION	STL	=	STEEL
CONT.	=	CONTINUOUS	SYM.	=	SYMMETRICAL
DBL.	=	DOUBLE	TEMP	=	TEMPERATURE
DIA.	=	DIAMETER	TM	=	TECHNICAL MANUAL
(E)	=	EXISTING			
EA.	=	EACH	T.S.	=	TUBE STEEL
ELEV.	=	ELEVATION	TYP.	=	TYPICAL
ETC.	=	ET CETERA	VERT.	=	VERTICAL
EXT.	=	EXTERIOR	W/	=	WITH

IF SHEET IS LESS THAN 28" X 40" IT IS A REDUCED PRINT SCALE REDUCED ACCORDINGLY

S-2

0 3" 6" 1' 2' 3'
SCALE: 1"=1'-0"

EXPIRES: 12/18/94

CHALKER PUTNAM COLLINS & SCOTT
CONSULTING STRUCTURAL ENGINEERS
950 PACIFIC AVE., STE. 300 TACOMA, WA 98402
(206)383-2797 INCORPORATED 1969

ENV DIRECTOR

PWC DIRECTOR 11/29/94

SYMBOL	DESCRIPTION	DATE	APPROVAL
	REVISIONS		

THE TSANG PARTNERSHIP, INC.
DSGN. RES DR. MCS CHK. RES
SUPV. CH. ENGR.
SUBMITTED BY DATE
FWA NUMBER (TITLE)
E.I.C. FIRE PROT.
SEC.HD. DIV.HD.
SATISFACTORY TO DATE 8/17/94
BY
APPROVED DATE 8/10/94
PUBLIC WORKS OFFICER

DEPARTMENT OF THE NAVY
NAVAL AIR STATION, WHIDBEY ISLAND, WASHINGTON

SONOBUOY READY ISSUE BUILDING
NAS WHIDBEY ISLAND
FRAMING DETAILS

SIZE F | CODE IDENT. NO. 80091 | NAVFAC. DRAWING NO. 6410734
CONST. CONTR. NO. N44255-94-C-7497
SCALE AS NOTED | SPEC. 12-94-7497 | SHEET 7 OF 10

93-367.06

Sonobuoy Ready Issue Building
N44255-94-C-7731
7 of 10

6410734