RADAR OPNL FACILITY
SITE PREPARATION
ENGINEERING GUIDANCE PLAN

NOTES:

1. THESE ITEMS ARE TO BE PROVIDED AS PART OF THE SITE PREPARATION.
2. THE ANTENNA POLES, BRACKETS, ANTENNA, AND OBSTRUCTION LIGHTS ARE TO BE PROVIDED WITH THE RADAR OPERATIONAL FACILITY.
3.
4. EMERGENCY MOTOR GENERATOR AND AUTOMATIC TRANSFER SWITCH WILL BE PROVIDED BY NAVELEXSYSCOM
5. THE INTERSITE CABLES BETWEEN THE RADAR OPERATIONAL FACILITY AND THE ATC TOWER XMTR-RCVR BUILDINGS REQUIRE THE COMMUNICATION JUNCTION BOX ONLY IF THE SIZE OF THECONDUCTORS IN THE INTERSITE CABLES ARE 19 AWG OR LARGER. IF THE COMMUNICATION JUNCTION BOX IS NOT USED, ENSURE THAT SUFFICIENT LENGTHS OF CABLES ARE PROVIDED FOR TERMINATION ON THE COMMUNICATION JUNCTION BOX INSIDE THE RADAR OPERATIONAL FACILITY.
6. THE 7/8" AIR DIELECTRIC COAX CABLES FROM THE AN/FPN-63 AND THE ASR-8 SITES WILL BE TERMINATED IN THE PAR/ASR-8 JUNCTION BOX LOCATED OUTSIDE THE RADAR OPERATIONAL FACILITY. THE CABLES WILL PRESSURIZED AND MONITORED FROM WITHIN THE RADAR OPERATIONAL FACILITY. THE AIR DIELECTRIC CABLES CONSISTS OF TWO 7/8" COAX FROM THE AN/FPN-63 AND FIVE 7/8 COAX FROM THE ASR-8 SITES. THE 7/8" COAX CABLES WILL BE TERMINATED WITH AN N-JACK (FEMALE) THAT MATES WITH UG-21 CONNECTOR.
7. THE SIGNAL CABLES FROM THE AN/FPN-63 AND THE ASR-8 SITES WILL BE TERMINATED ON TERMINAL BOARDS IN THE PAR/ASR-8 JUNCTION BOX LOCATED OUTSIDE THE RADAR OPERATIOANL FACILITY. THE AN/FPN-63 SIGNAL CABLES CONSISTS OF TWO, 12 PAIRS OF 19 AWG OVERALL SHEILDED CABLES. IF THE MT-4281A/FPN-52 TURNTABLE IS TO BE USED WITH THE AN/FPN-63 THEN AN ADDITIONAL 14 CONDUCTORS 16 AWG CABLE IS REQUIRED. THE ASR-8 SIGNAL CABLES CONSISTS OF TWO, 50 PAIRS OF 19 AWG CABLES, ONE 12 PAIRS OF 19 AWG INDIVIDUAL SHEILDED CABLE AND ONE CONDUCTOR OF 2 AWG CABLE FOR GROUND.

QTY.	PC NO	NAME OR DESCRIPTION	PART NO. OR STOCK NO	MANUFACTURER	MATERIAL	SPEC./REMARKS
1	24	RADAR OPNL FACILITY MOD #3	P N50354-2164-01-0001	E.C. DE YOUNG, INC.		
1	23	RADAR OPNL FACILITY MOD #2	P N50354-2164-01-0001	E.C.DE YOUNG, INC.		
1	22	RADAR OPNL FACILITY MOD #1	P N50354-2164-01-0001	E.C.DE YOUNG, INC.		
1	21	225 KVA 3 PHASE 4 WIRE TRFN FORMER 208Y 120 OR EQUIVALENT				SEE NOTE 1
1	20	MAIN POWER PANEL	LC3600F	WESTINGHOUSE		
1	19	SAFETY SWITCH	HF-425-N	WESTINGHOUSE		SEE NOTE 1
	18	SEWER CO. 2"				
1	17	WATER INLET CONNECTION - 3 4				SEE NOTE 1
A R	16	CABLE CONDUIT 4"				SEE NOTE 1
A R	15	MAIN POWER CONDUIT 4"				SEE NOTE 1
1	14	SEWER CONNECTION 4"				SEE NOTE 1
1	13	WATER OUTLET 1 2"				SEE NOTE 1
1	12	ENGINE GENERATOR MEP 009B	NSN 6115-01-021-4096			SEE NOTE 4
2	11	CABLE VAULT				SEE NOTE 1
1	10	ANTENNA POLE AND BRACKET ASSY.				SEE NOTE 2
A R	9	4 0 AWG THW				
1	8	VHF UHF MULTIPOL ANTENNA TACO MODEL D-2213		TECH APPLIANCE CORP.		SEE NOTE 2
1	7	PAR ASR-8 JUNCTION BOX	ENCL: A-603612LP PNL: A-60P36	HOFFMAN		SEE NOTE 1
1	6	COMM. JUNCTION BOX	ENCL: A-603612LP PNL: A-60P36	HOFFMAN		SEE NOTE 1 &5
1	5	AUTOMATIC TRANSFER PANEL	FSN: 6115-477-7932			SEE NOTE 4
7	4	LAMP	116A2 TS	CROUSE-HINDS		SEE NOTE 2
1	3	PHOTOELECTRIC CONTROL	51711	CROUSE-HINDS		SEE NOTE 2
1	2	FAILURE ALARM & TRANSFER RELAY ASSY	43902	CROUSE-HINDS		SEE NOTE 2
1	1	OBSTRUCTION MARKER LIGHT	43961	CROUSE-HINDS		SEE NOTE 2

LIST OF MATERIAL

FACIL JECFTN 14203001 10049 RADAR OPNL

NO	TITLE	CONTR. OR MFR.	DRAWING NO.
1	INSTLN PROCEDURE FOR COMPLEXING OF THE RDP 14203-123720	NAVELEX	

REFERENCES

NEXT ASSY USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-STD-100

DO NOT SCALE THIS DRAWING

DESIGN AGENT

DRAWN CHECKED

TRACED APPROVED

WESTNAVELEX

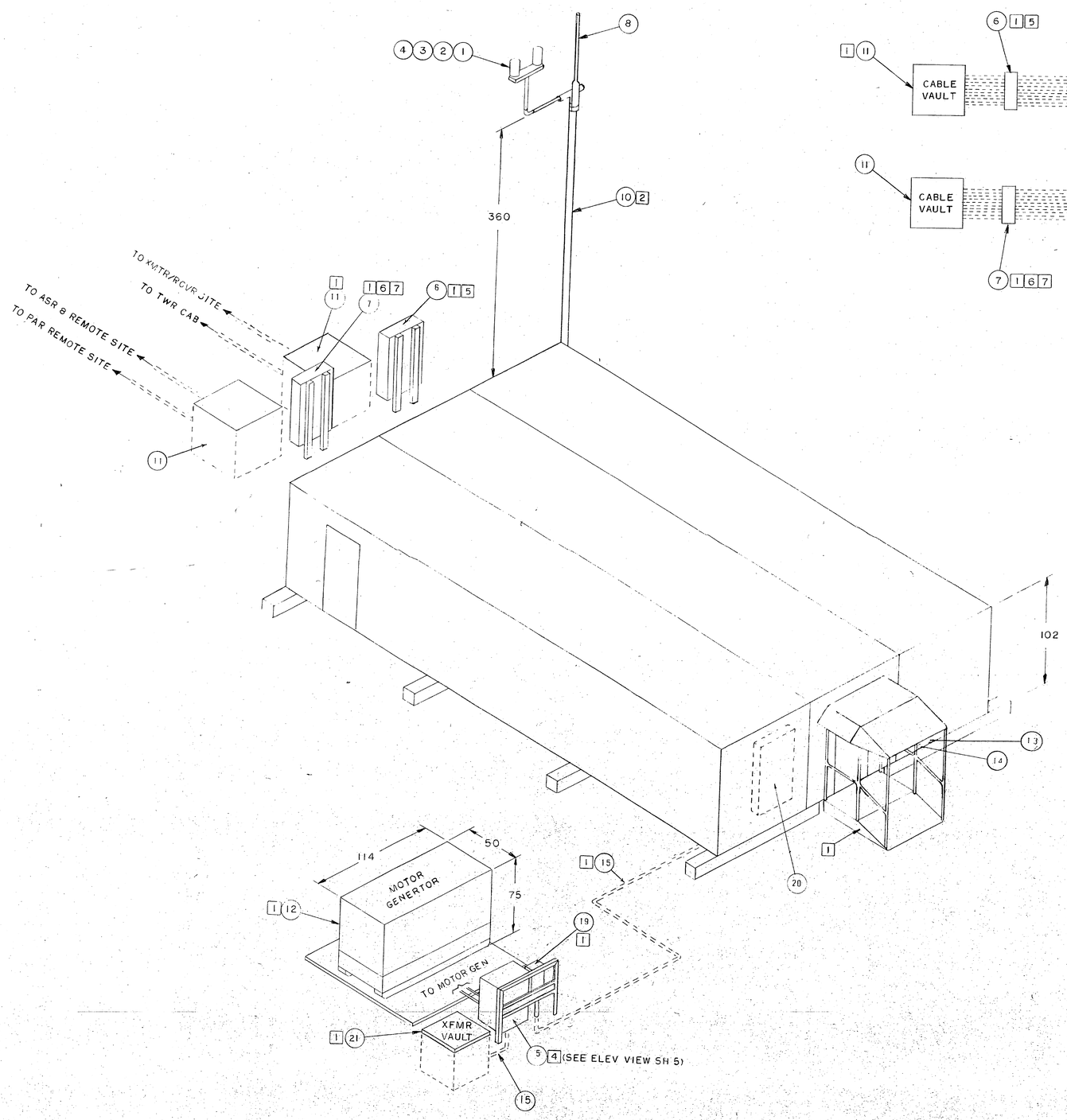
NAVELEX

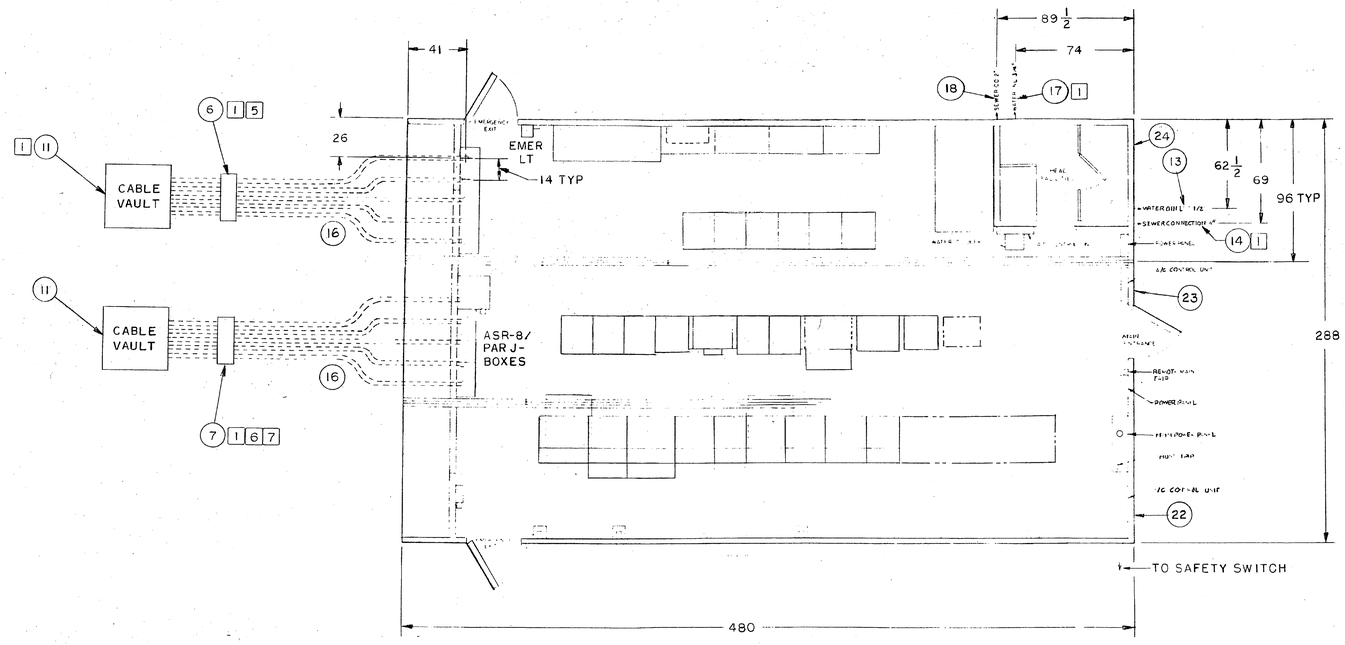
NAVAL ELECTRONIC SYSTEMS
ENGINEERING CENTER VALLEJO
VALLEJO, CALIFORNIA 94592

RADAR OPNL FACILITY
SITE PREPARATION
ENGINEERING GUIDANCE PLAN

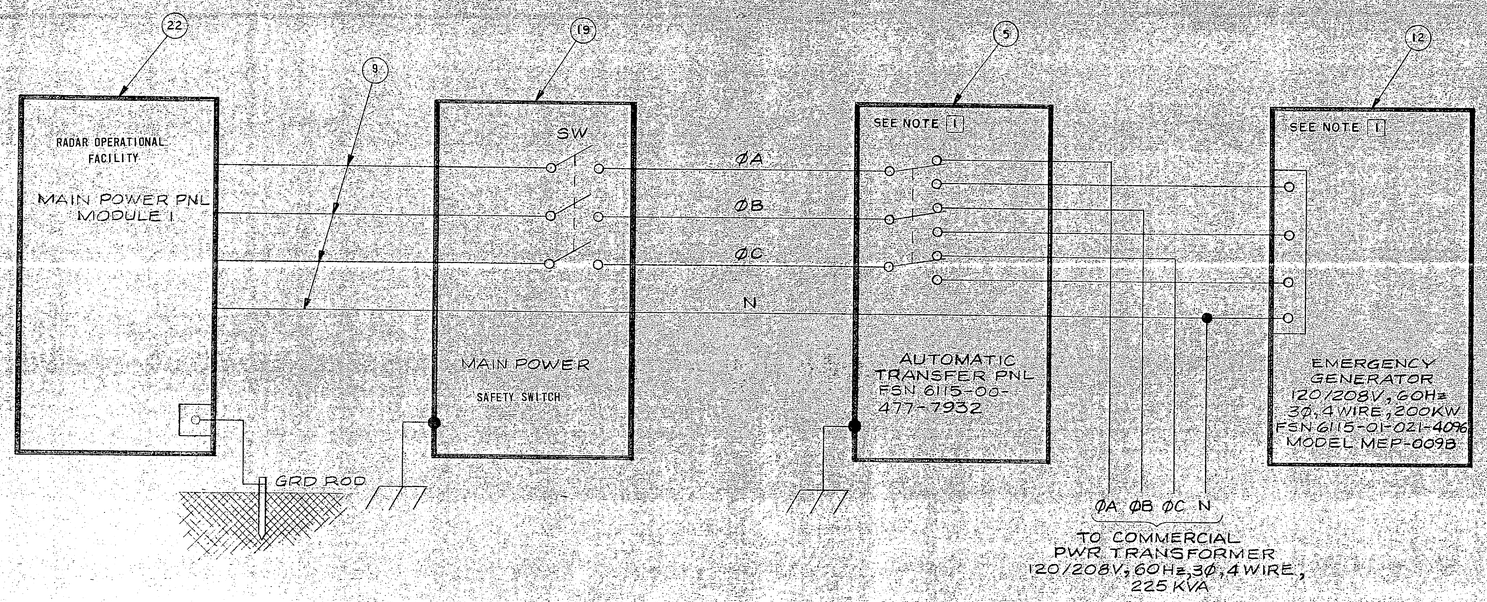
SIZE F | CODE IDENT NO 14203 | NAVELEX DRAWING NO. 123720-7 | REV

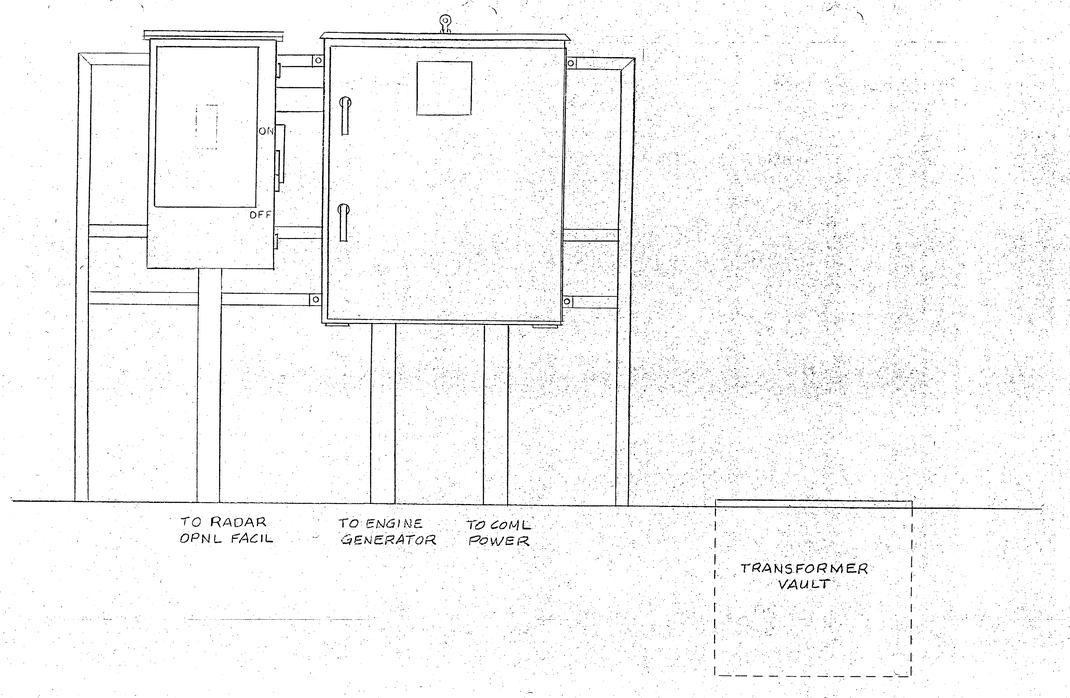
SCALE | SH 1 OF 5





DESIGN AGENT	NAVAL ELECTRONIC SYSTEMS ENGINEERING CENTER VALLEJO VALLEJO CALIFORNIA 94592	
DRAWN / CHECKED / TRACED / APPROVED / WESTNAVELEX PROJ. ENGR. DIV. HEAD / PROJ. HEAD DEPT. HEAD	RADAR OPNL FACILITY GENERAL SITE PLAN	
FOR ACTIVITY APPROVALS SEE SHEET 1	SIZE F / CODE IDENT. NO. 14203 / NAVELEX DRAWING NO. 123067 / REV.	
	SCALE	SH 2 OF 5

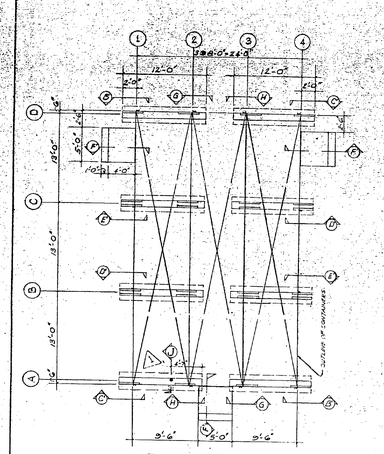


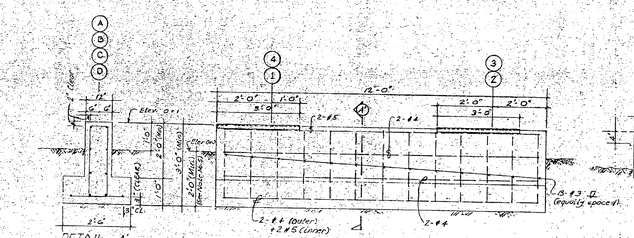


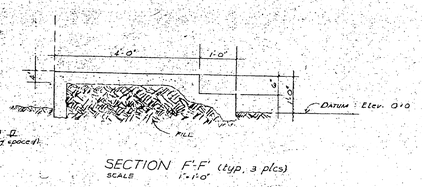
NOTE:

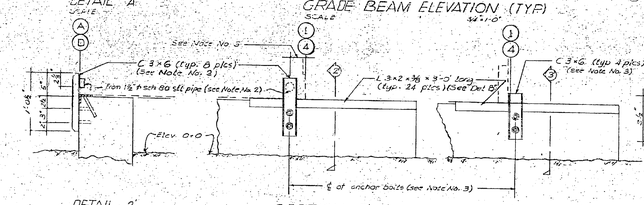
1. THE WIRING SCHEMATIC SHOWN IS VERY GENERAL. THE ACTUAL WIRING WILL DEPEND ON THE WIRING SCHEMATIC OF THE AUTOMATIC TRANSFER SWITCH AND THE ENGINE/GENERATOR DELIVERED FOR THE RADAR OPERATIONAL FACILITY.

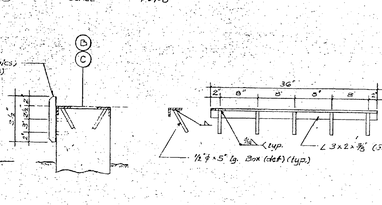
DESIGN AGENT		NAVAL ELECTRONIC SYSTEMS ENGINEERING CENTER VALLEJO VALLEJO, CALIFORNIA 94592
DRAWN HAPSLUND	CHECKED	RADAR OPERATIONAL FACILITY POWER DISTRIBUTION
TRACED	APPROVED	
NESEC-VALLEJO		
PROJ. ENGR.	DIV. HEAD	
PROJ. HEAD	DEPT. HEAD	
FOR ACTIVITY APPROVALS SEE SHEET 1	SIZE F	CODE IDENT. NO. 14203 / NAVELEX DRAWING NO. 123267 / REV.
	SCALE	SH 4 OF 5

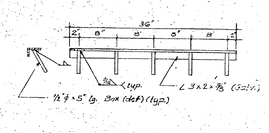


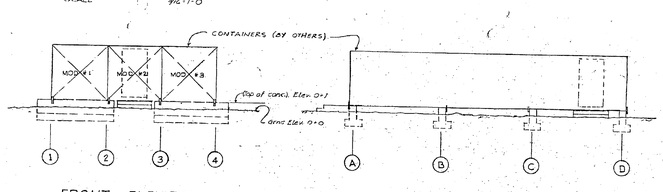


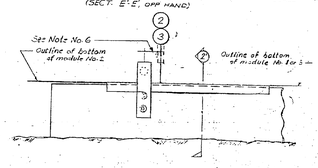


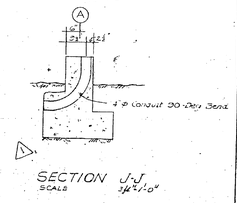












NOTES:

1. Design Data:
   A. Loading:
      Floor Live Load = 150 PSF
      Wind Velocity = 120 MPH
      Velocity Pressure = 37 PSF
      Total Uplift = 21,233 #
      Total Wall Pressure = 3,472 #
      Total Wall Suction = 5,920 #
      Dead Weight:
      Module No. 1 = 13,700 #
      Module No. 2 = 13,240 #
      Module No. 3 = 14,400 #
   B. Stresses:
      Concrete: f'_c = 3,000 psi
      Reinf. Steel, f_y = 40,000 psi (A-305)
      Struct-Stl Shapes, f_y = 36,000 psi
   C. Soil Bearing Capacity = 2,000 psf
2. Weld 1½ in. dia. sch. 80 stl pipe, 1½ in long, to stl channel, C 3 × 6, with fillet of 3/16 in. leg (around circumf.) then apply 2 coats of zinc rich paint after drilling holes for the anchor bolts.
3. Stl channels shall be anchored to grade beams after the assembly of containers are set in position, with tie rods properly tensioned and the corner castings shimmed as needed to level the floor, with ⅝" dia. × 5" long (cat. no. W5 - 5050) Red Head Lok Anchors, or equal.
4. Coat all bolts with corrosion preventive per Mil-C-16173, Grade 1, after they are in position.
5. This dimension to vary as the depth of frost penetration, but not less than shown. Bottom of grade beams shall rest below the frost line.
6. This dimension to suit bottom corner fitting.

SYMBOL	DESCRIPTION	DATE	APPD BY
1	Added Section J-J to show 4" ø conduit, 90 Deg. Bend (2 plcs), 3/30/73		

REVISIONS

DESIGNED BY: ACKER
DRAWN BY: ACKER
SHEET SIZE: 24 WIDE × 36 HIGH

DEPARTMENT OF THE NAVY - NAVAL DATA PROCESSING COMMAND
CHESAPEAKE DIVISION
WASHINGTON, D.C.

ATC CONTAINER COMPLEX
FOUNDATION PLAN & DETAILS

PROJECT SHEET NO.
SK NO 164

DESIGN AGENT

DRAWN: CHECKED
TRACED: APPROVED
WESTNAVELEX
PROJ. ENGR. DIV. HEAD
PROJ. HEAD DEPT. HEAD

FOR ACTIVITY APPROVALS SEE SHEET 1

NAVAL ELECTRONIC SYSTEMS
ENGINEERING CENTER VALLEJO
VALLEJO, CALIFORNIA 94592

RADAR OPNL FACILITY
FOUNDATION PLAN

SIZE	CODE IDENT. NO.	NAVELEX DRAWING NO.	REV.
F	14203	123267	

SCALE | SH 5 OF 5