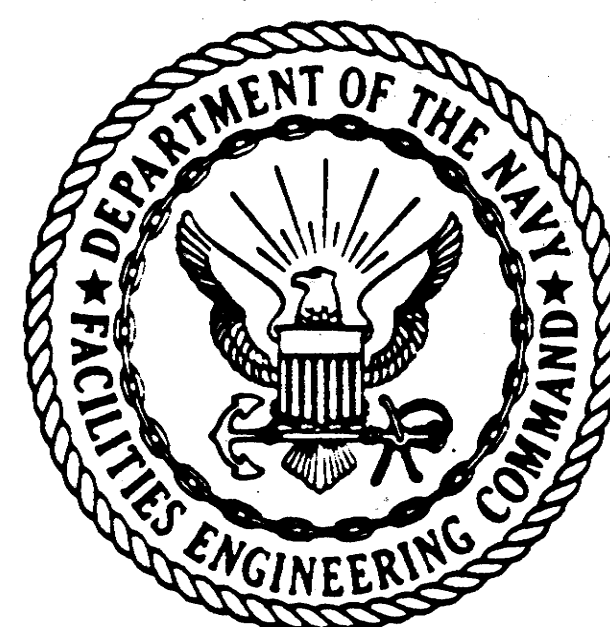


MAGNETIC SILENCING FACILITY, DEGAUSSING RANGE



NAVAL SUBMARINE BASE

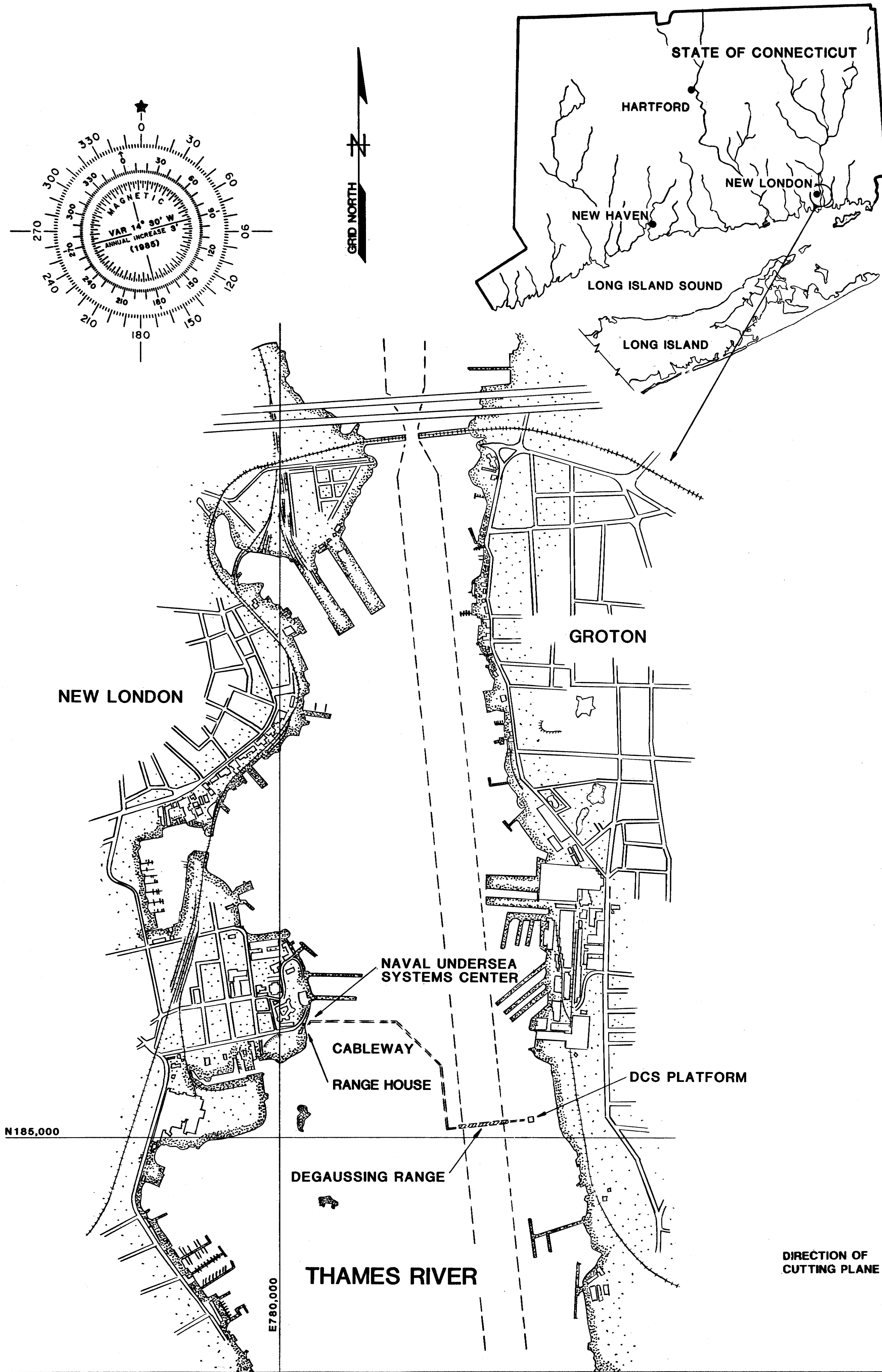
NEW LONDON, CONNECTICUT



DEPARTMENT OF THE ARMY CHESAPEAKE DIVISION WASHINGTON, D.C.		MILITARY FACILITIES ENGINEERING COMMAND NEW LONDON, CT.		TITLE SHEET	
MAGNETIC SILENCING FACILITY		NEW LONDON, CT.		TITLE SHEET	
CODE I.D. NO. 80091		DRAWING SIZE: D		CONST. CONT. NO. N62477-86-C-0103	
SPEC. 21-86-0103		NAVSTA DRAWING NO.		3050587	
SHEET		1 OF 56		-	

**"WARNING: DRAWING MAY BECOME DISTORTED
DURING REDUCTION OR OTHER REPRODUCTION
PROCESS. USER IS CAUTIONED AGAINST SCALING.**

IF SHEET IS LESS THAN
34"X22" USE GRAPHIC SCALE



DRAWING INDEX

DRAWING NO.	NAVFAC NO.	DRAWING TITLE
—	3050587	TITLE SHEET
C-1	3050588	VICINITY PLAN, INDEX, NOTES AND SYMBOLS
C-2	3050589	SITE PLAN AND BORING LOGS
C-3	3050590	DREDGING PLAN AND PROFILES
C-4	3050591	SENSOR RANGE PLAN AND CROSS SECTION
C-5	3050592	SENSOR TUBE DETAILS
C-6	3050593	SENSOR TUBE INSTALLATION DETAILS
C-7	3050594	MISCELLANEOUS DETAILS
S-1	3050595	DCS PLATFORM OVERALL ELEVATIONS
S-2	3050596	PILE TEMPLATE PLANS AND ELEVATION
S-3	3050597	PILE TEMPLATE SECTIONS AND DETAILS
S-4	3050598	DCS PLATFORM PILING DETAILS
S-5	3050599	DCS PLATFORM PLAN AT EL. (+) 8.5'
S-6	3050600	DCS PLATFORM SECTIONS & DETAILS
S-7	3050601	DCS PLATFORM SECTIONS & DETAILS
S-8	3050602	DCS SUPPORT STRUCTURE PLANS AND ELEVATIONS
S-9	3050603	DCS SUPPORT STRUCTURE SECTIONS AND DETAILS
S-10	3050604	DCS PLATFORM SENSOR CABLE PULL TUBES
S-11	3050605	DCS SUPPORT STRUCTURE STAIRWAYS NO. 1 & 2
S-12	3050606	DCS PLATFORM SECURITY WALL
S-13	3050607	DCS PLATFORM MISCELLANEOUS DETAILS
S-14	3050608	DCS PLATFORM MISCELLANEOUS DETAILS
S-15	3050609	DCS PLATFORM INSTALLATION DETAILS
E-1	3050610	DCS PLATFORM LIGHTING
E-2	3050611	DCS PLATFORM GROUNDING SYSTEM
E-3	3050612	DCS TO RANGE HOUSE CABLE ROUTING PLAN
E-4	3050613	SENSOR RANGE CABLE ROUTING PLAN
E-5	3050614	RANGE HOUSE PLAN AND ELEVATIONS
E-6	3050615	SENSOR RANGE DETAILS
E-7	3050616	CABLE SCHEDULE
E-8	3050617	RANGE HOUSE DETAILS
E-9	3050618	RANGE HOUSE DETAILS
E-10	3050619	RANGE HOUSE INTERCONNECT WIRING DIAGRAM
AA-1	3050620	DATA CONCENTRATOR SHED GENERAL ARRANGEMENT
SA-1	3050621	PRECAST CONCRETE WALL AND ROOF PANEL DETAILS
SA-2	3050622	PRECAST CONCRETE DECK AND RAILING DETAILS
SA-3	3050623	INTERIOR FLOOR & CEILING PLANS
SA-4	3050624	INTERIOR WALL ELEV'S & CABINET SUPPORT DET'S
SA-5	3050625	SHIELD AND ACCESS FLOOR DETAILS
SA-6	3050626	CABLE ANCHORAGE AND MISCELLANEOUS DETAILS
MA-1	3050627	HVAC AND FIRE PROTECTION SYSTEMS
EA-1	3050628	CONDUIT LAYOUT
EA-2	3050629	POWER AND CONTROL SINGLE LINE DIAGRAM
EA-3	3050630	TERMINAL CABINET LAYOUT AND DETAILS
EA-4	3050631	INTERFACE WIRING DIAGRAM - TERMINAL CABINET NO. 1
EA-5	3050632	INTERFACE WIRING DIAGRAM - TERMINAL CABINET NO. 2
EA-6	3050633	INTERFACE WIRING DIAGRAM - TERMINAL CABINET NO. 3
EA-7	3050634	INTERFACE WIRING DIAGRAM - TERMINAL CABINET NO. 4
EA-8	3050635	INTERFACE WIRING DIAGRAM - TERMINAL CABINET NO. 5
EA-9	3050636	GROUNDING AND LIGHTNING PROTECTION
EA-10	3050637	MISCELLANEOUS DETAILS
EA-11	3050638	ALARM SUPERVISORY CIRCUIT & REMOTE DATAC POWER CONTROL
EA-12	3050639	HALON DISCHARGE DEACTIVATING CONTROLS
EA-13	3050640	FILTER AND ELECTRICAL EQUIPMENT CABINET
EA-14	3050641	SUBMARINE CABLE TERMINATION DETAILS
EA-15	3050642	INTERFACE CABLE ASSEMBLY & DATA HWY CABLE TERMINATIONS

GENERAL NOTES:

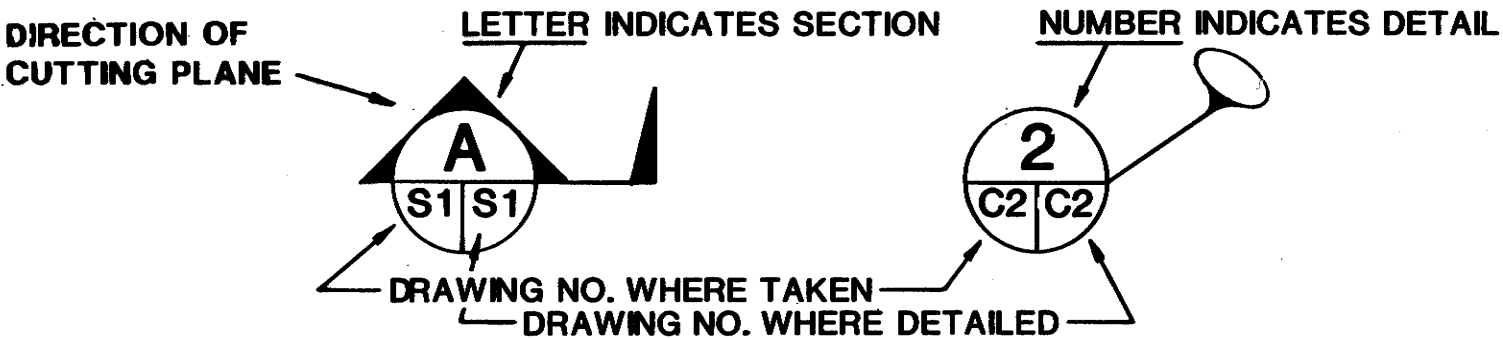
- PROJECT GRID SYSTEM IS IN FEET AND IS THE CONNECTICUT STATE PLANE COORDINATE SYSTEM.
- ALL DIMENSIONS ARE IN FEET AND INCHES: ALL ELEVATIONS AND SOUNDINGS ARE IN FEET AND REFERENCED TO MEAN LOW WATER (MLW) WHICH IS THE PROJECT DATUM.
- BOTTOM CONTOURS ARE RESULTS OF SURVEYS PERFORMED BY "OCEAN SURVEYS, INC.", CONDUCTED IN JANUARY AND JULY, 1986 AND CAN ONLY REPRESENT THE CONDITIONS EXISTING AT THAT TIME.
- SHORELINE CONTOURS ARE TAKEN FROM NOAA CHART NUMBER 13213, "NEW LONDON HARBOR".

ABBREVIATIONS:

- DCS - DATA CONCENTRATOR SHED
DWG - DRAWING
FRP - FIBERGLASS REINFORCED PIPE
FS - FAR SIDE
GFE - GOVERNMENT FURNISHED EQUIPMENT
HHMB - HEX HEAD MACHINE BOLT
MLW - MEAN LOW WATER
NS - NEAR SIDE
PVC - POLYVINYLCHLORIDE
SCH - SCHEDULE
TOG - TOP OF GRATING
TOS - TOP OF STEEL
TYP - TYPICAL
WP - WORK POINT
WT - WALL THICKNESS
- CC1 - CCTV COAXIAL SUBMARINE CABLE
DH1 - DATA HIGHWAY COAXIAL SUBMARINE CABLE
PCS1 - POWER, CONTROL AND SIGNAL SUBMARINE CABLE

LEGEND & SYMBOLS:

- PROJECT CONTROL POINT
VIBRACORE LOCATION
BORING LOCATION
SURVEY MONUMENT / BENCH MARK
- PLATE
CENTERLINE
DIAMETER



"WARNING: DRAWING MAY BECOME DISTORTED DURING REDUCTION OR OTHER REPRODUCTION PROCESS. USER IS CAUTIONED AGAINST SCALING."

DRAWING NOT TO SCALE

DESIGNED BY	FLUOR ENGINEERS, INC.	DATE	10/1/86
DRAWN BY	HOUSTON DIVISION	DATE	10/1/86
CHECKED BY	DESIGN	DATE	10/1/86
APPROVED BY	ENGINEER	DATE	10/1/86
SEAL AREA	STATE OF TEXAS	DATE	10/1/86
CHESAPEAKE DIVISION	NEW LONDON, CT.	DATE	10/1/86
MAGNETIC SILENCING FACILITY	VICINITY PLAN, INDEX, NOTES AND SYMBOLS	DATE	10/1/86
CODE I.D. NO.	80091	DATE	10/1/86
DRAWING SIZE	D	DATE	10/1/86
CONST. CONT. NO.	N62477-86-C-0103	DATE	10/1/86
SPEC.	21-86-0103	DATE	10/1/86
NAVFAC DRAWING NO.	3050588	DATE	10/1/86
SHEET	2 OF 56	DATE	10/1/86
C-1		DATE	10/1/86

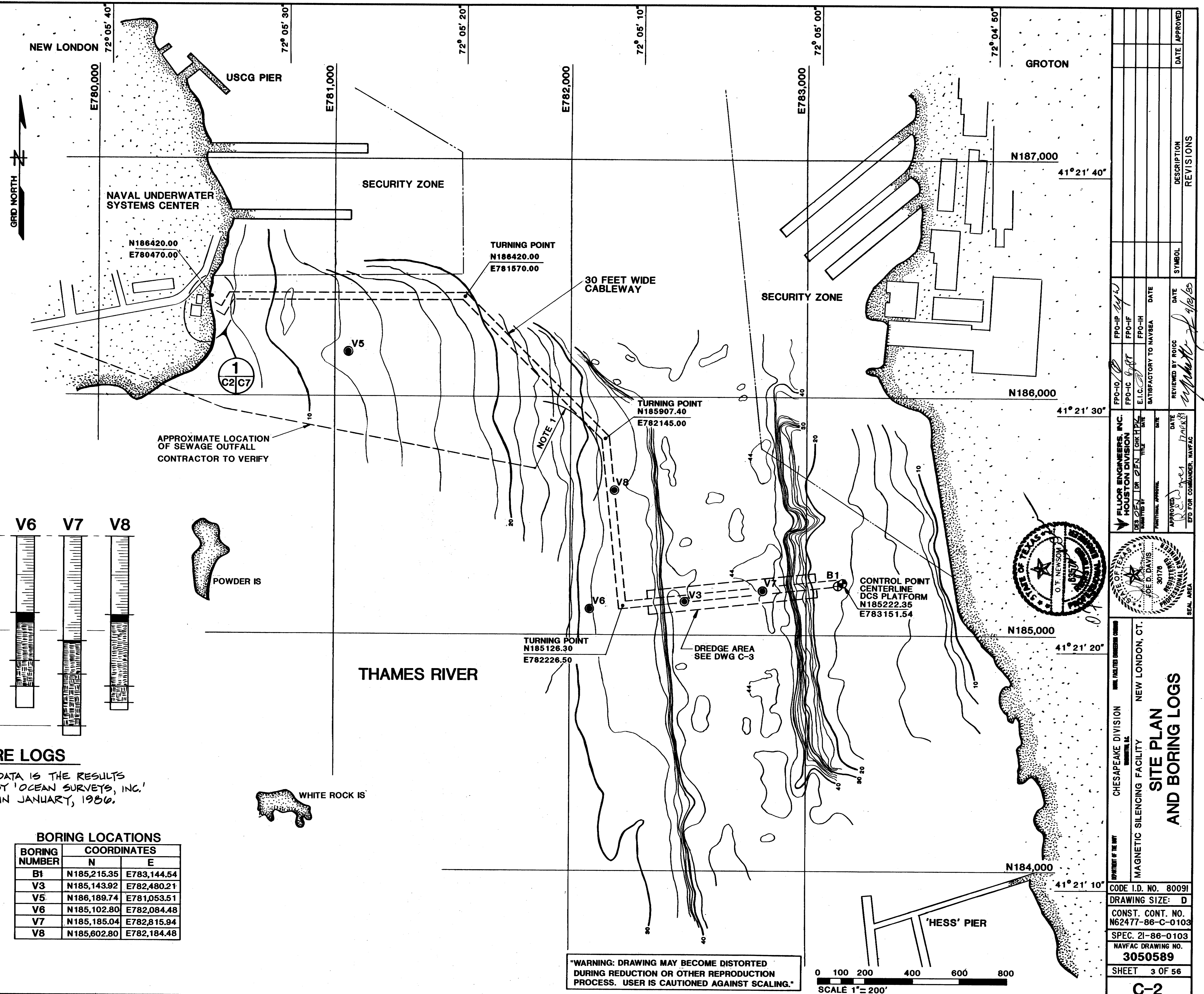
1. CONTRACTOR TO VERIFY THE LOCATION OF EXISTING SEWAGE OUTFALL AND MAINTAIN 300 FEET CLEARANCE FOR CABLEWAY.
2. SURVEY MONUMENTS AND BENCH MARKS REQUIRED FOR THIS INSTALLATION TO BE PROVIDED BY THE CONTRACTOR.



VIBRACORE DATA IS THE RESULTS
OF TESTS BY 'OCEAN SURVEYS, INC.'
CONDUCTED IN JANUARY, 1986.


BORING LOCATIONS		
BORING NUMBER	COORDINATES	
	N	E
B1	N185,215.35	E783,144.54
V3	N185,143.92	E782,480.21
V5	N186,189.74	E781,053.51
V6	N185,102.80	E782,084.48
V7	N185,185.04	E782,815.94
V8	N185,602.80	E782,184.48

BORING DATA IS THE RESULTS OF TESTS BY 'WOODWARD-CLYDE CONSULTANTS' CONDUCTED IN DECEMBER, 1986.



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DURING REDUCTION OR OTHER REPRODUCTION
PROCESS. USER IS CAUTIONED AGAINST SCALING."**

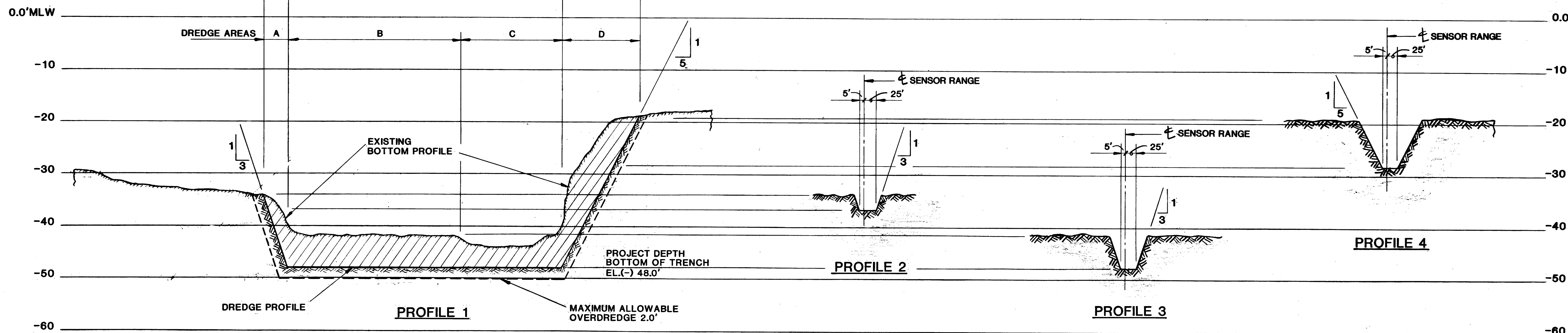
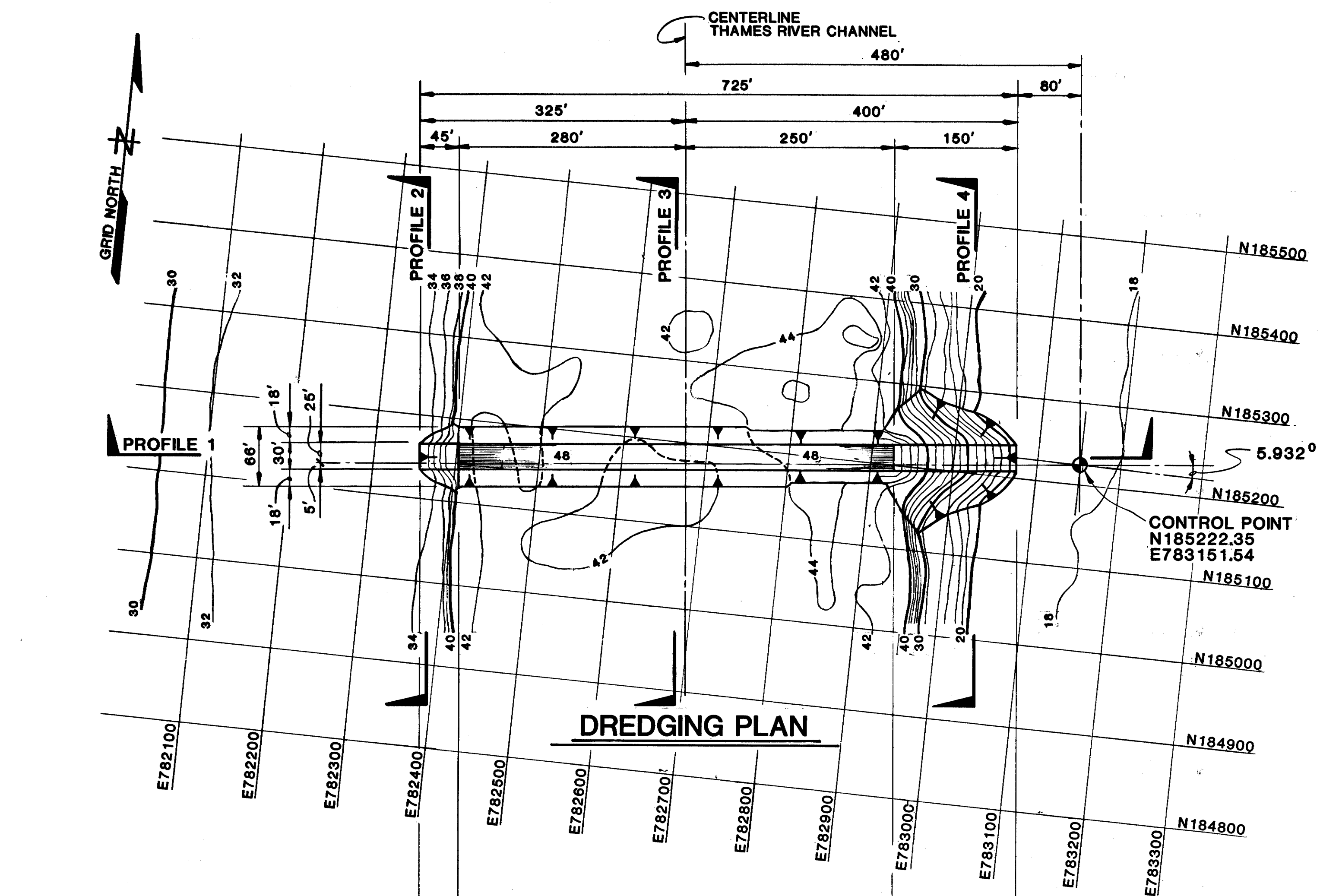
0 100 200 400 600 800
SCALE 1"=200'

DEPARTMENT OF THE ARMY CHESAPEAKE DIVISION WASHINGTON, DC		NEW LONDON, CT. MAGNETIC SILENCING FACILITY	
I.D. NO. 80091 DRAWING SIZE: D		CONST. CONT. NO. 62477-86-C-0103	
SPEC. 2I-86-0103 NAVFAC DRAWING NO. 3050589		SHEET 3 OF 56	
<h2 style="text-align: center;">SITE PLAN AND BORING LOGS</h2>			
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  <p>JOE D. DAVIS, DISTRICT ENGINEER</p> </div> <div style="text-align: center;"> <p>3076</p> <p>REGISTERED PROFESSIONAL ENGINEER</p> </div> <div style="text-align: center;"> <p>DATE: 1/10/83</p> <p>APPROVED BY ROICC: <i>[Signature]</i></p> <p>REVIEWED BY ROICC: <i>[Signature]</i></p> <p>DATE: 4/18/83</p> </div> </div>			
SEAL AREA			

F SHEET IS LESS THAN
41X221 USE GRAPHIC SCALE

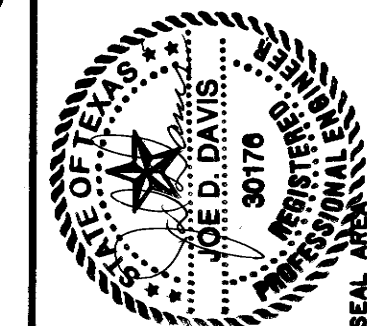
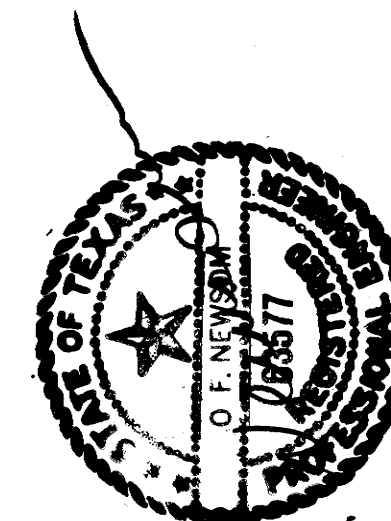
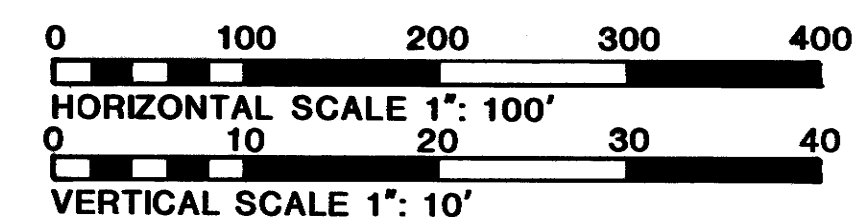
DREDGE VOLUMES	
DREDGE AREA	DREDGE QUANTITY TO PROJECT DEPTH
A	450
B	3000
C	2100
D	3400
TOTAL	8950

1. ALL QUANTITIES ARE IN CUBIC YARDS.
2. ALL QUANTITIES ARE PLACE MEASUREMENTS AND INCLUDE ALL SIDE SLOPES.
3. BOTTOM CONTOURS ARE THE RESULTS OF SURVEYS CONDUCTED BY 'OCEAN SURVEYS, INC.' IN JANUARY 1986 AND ONLY INDICATE THE CONDITIONS PREVAILING AT THAT TIME.
4. DREDGE QUANTITIES DO NOT INCLUDE OVERDREDGE.



DREDGING PROFILES

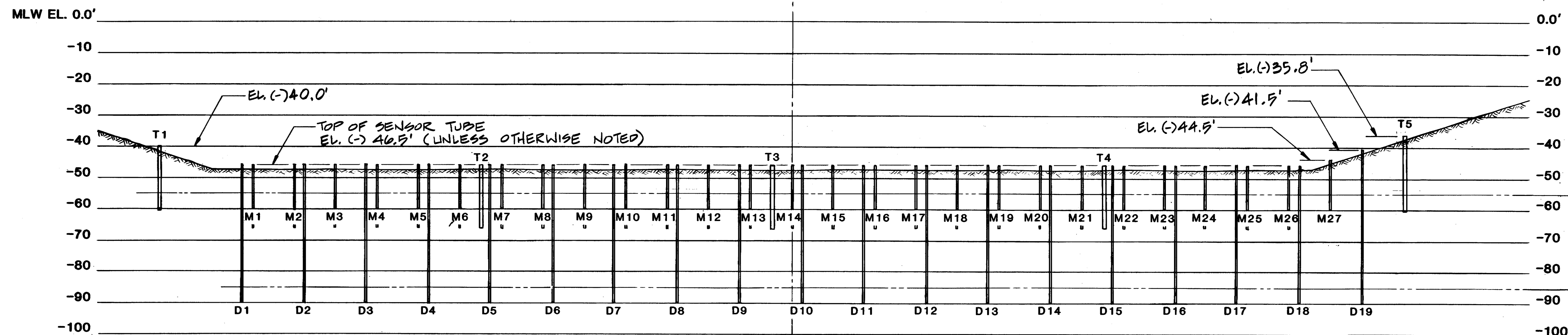
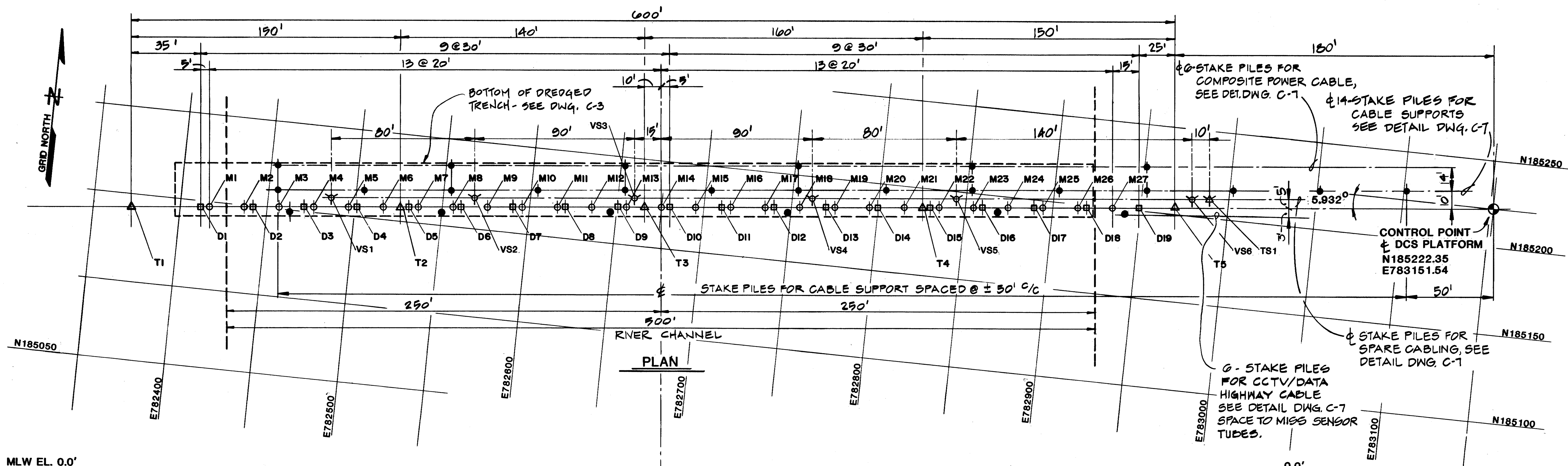
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CHESAPEAKE DIVISION
MAGNETIC SILENCING FACILITY
NEW LONDON, CT.
DREDGING PLAN
AND PROFILES

CODE I.D. NO. 80091
DRAWING SIZE: D
CONST. CONT. NO. N62477-86-C-0103
SPEC. 2I-86-0103
NAVFAC DRAWING NO. 3050590
SHEET 4 OF 56
C-3

IF SHEET IS LESS THAN 34"x22" USE GRAPHIC SCALE.



PROFILE
SENSOR TUBE LOCATION

SENSOR TUBE HORIZONTAL LOCATIONS (DESIGN)

TAG NO.	COORDINATE		TAG NO.	COORDINATE		TAG NO.	COORDINATE	
	N	E		N	E		N	E
M1	185145.87	782415.50	M18	185181.01	782753.68	D8	185167.05	782619.40
M2	185147.93	782435.39	M19	185183.07	782773.57	D9	185170.15	782649.24
M3	185150.00	782455.28	M20	185185.14	782793.46	D10	185173.25	782679.08
M4	185152.07	782475.18	M21	185187.21	782813.36	D11	185176.35	782708.92
M5	185154.14	782495.07	M22	185189.27	782833.25	D12	185179.46	782738.76
M6	185156.20	782514.96	M23	185191.34	782853.14	D13	185182.56	782768.60
M7	185158.27	782534.85	M24	185193.41	782873.03	D14	185185.66	782798.44
M8	185160.34	782554.75	M25	185195.47	782892.93	D15	185188.76	782828.28
M9	185162.40	782574.64	M26	185197.54	782912.82	D16	185191.86	782858.11
M10	185164.47	782594.53	M27	185199.61	782932.71	D17	185194.96	782887.95
M11	185166.54	782614.43	D1	185145.35	782410.52	D18	185198.06	782917.79
M12	185168.60	782634.32	D2	185148.45	782440.36	D19	185201.16	782947.63
M13	185170.67	782654.21	D3	185151.55	782470.20	T1	185141.73	782375.71
M14	185172.74	782674.11	D4	185154.65	782500.04	T2	185157.24	782524.91
M15	185174.80	782694.00	D5	185157.75	782529.88	T3	185171.70	782664.16
M16	185176.87	782713.89	D6	185160.85	782559.72	T4	185188.24	782823.30
M17	185178.94	782733.78	D7	185163.95	782589.56	T5	185203.74	782972.50

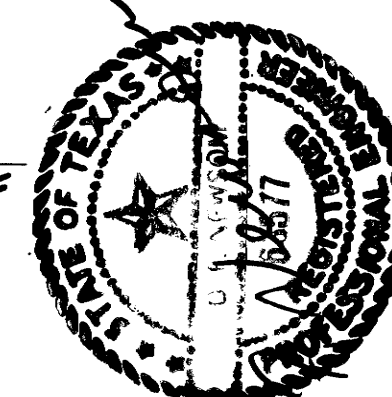
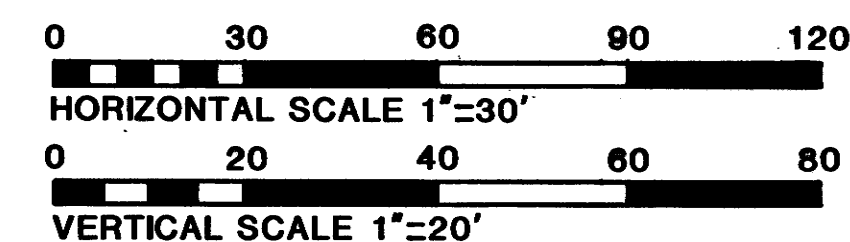
NOTES:

- FOR SENSOR TUBE INSTALLATION TOLERANCES, SEE DWG. C-6
- FOR SENSOR TUBE DETAILS SEE DWG. C-5

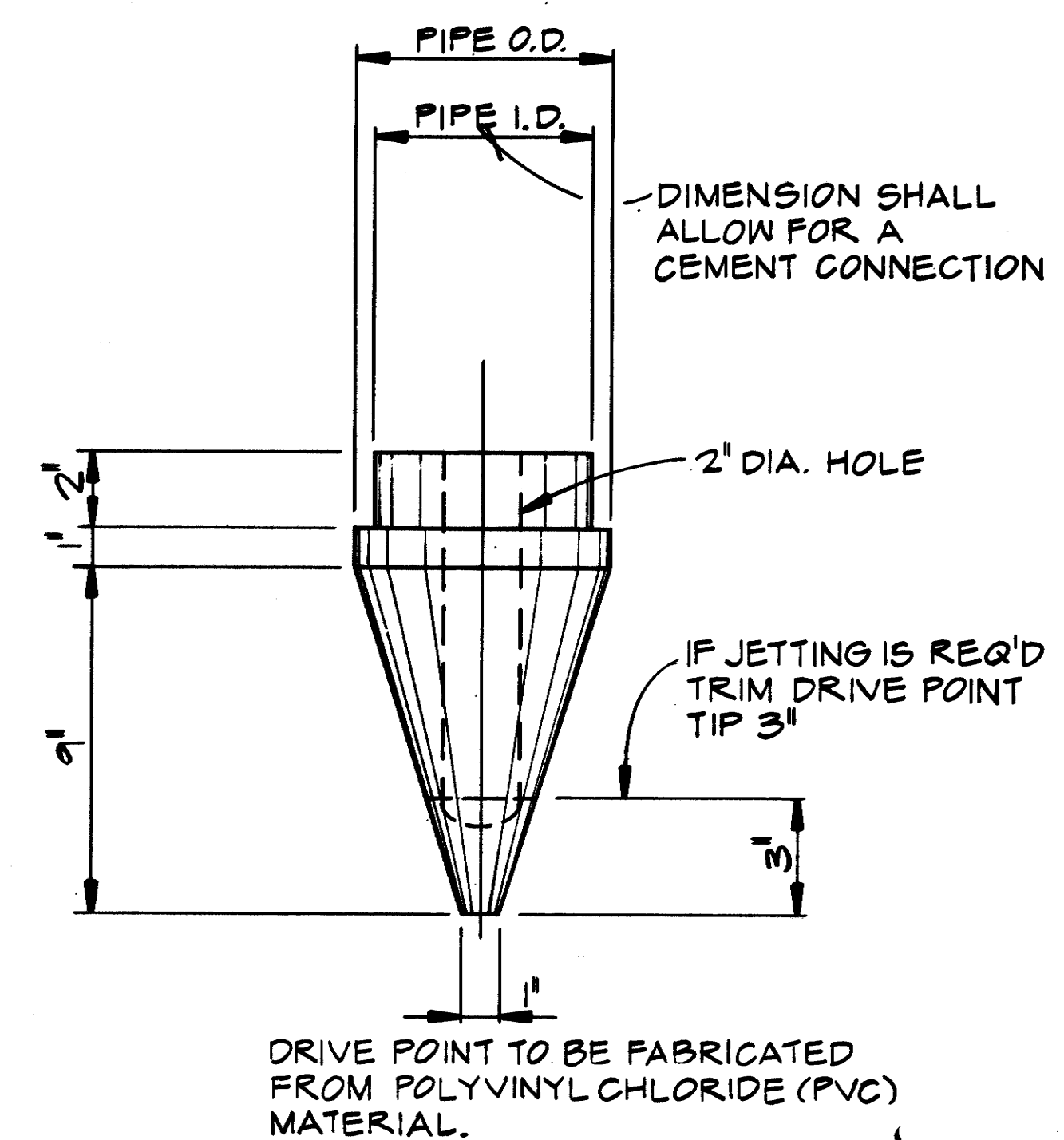
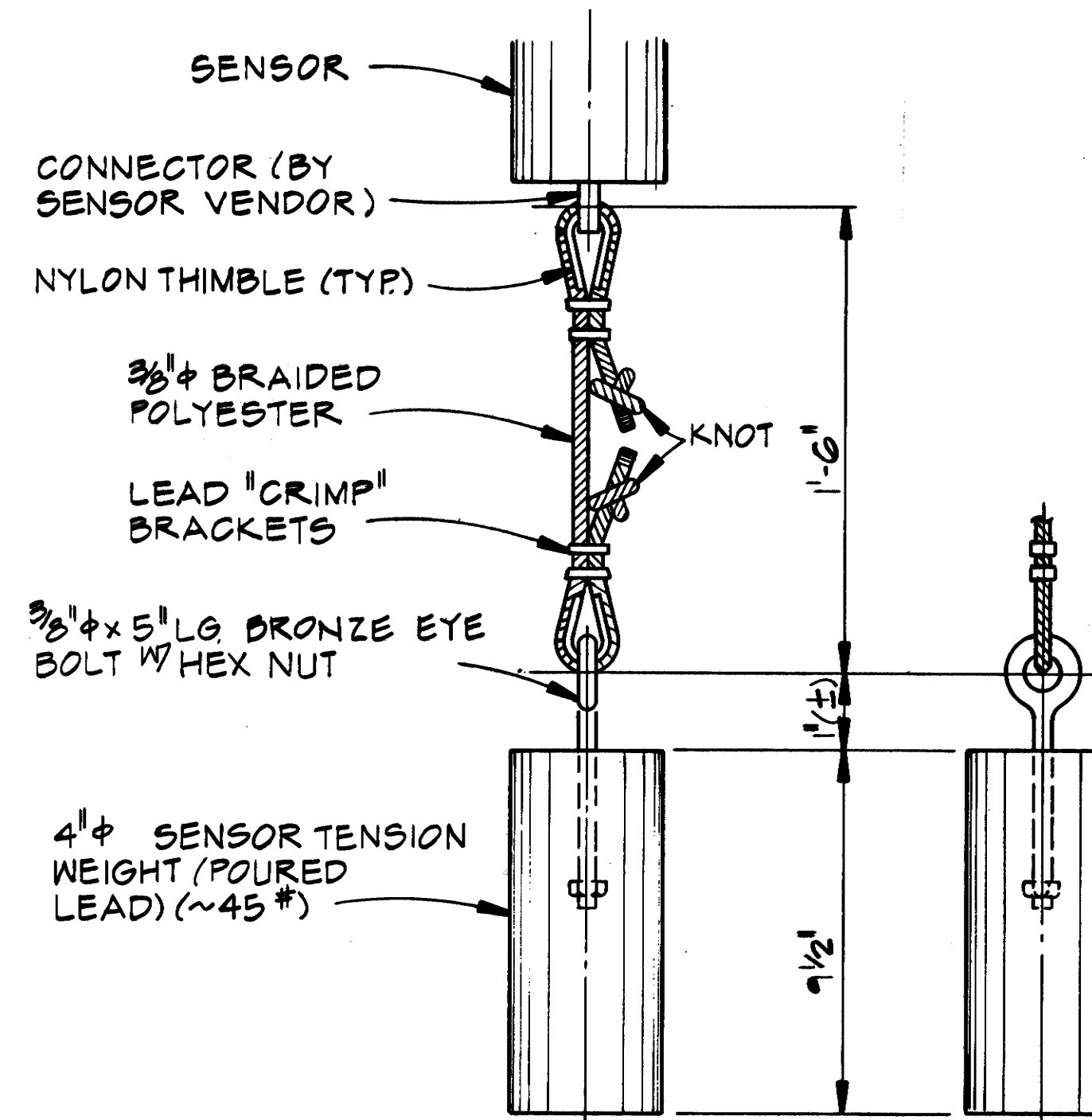
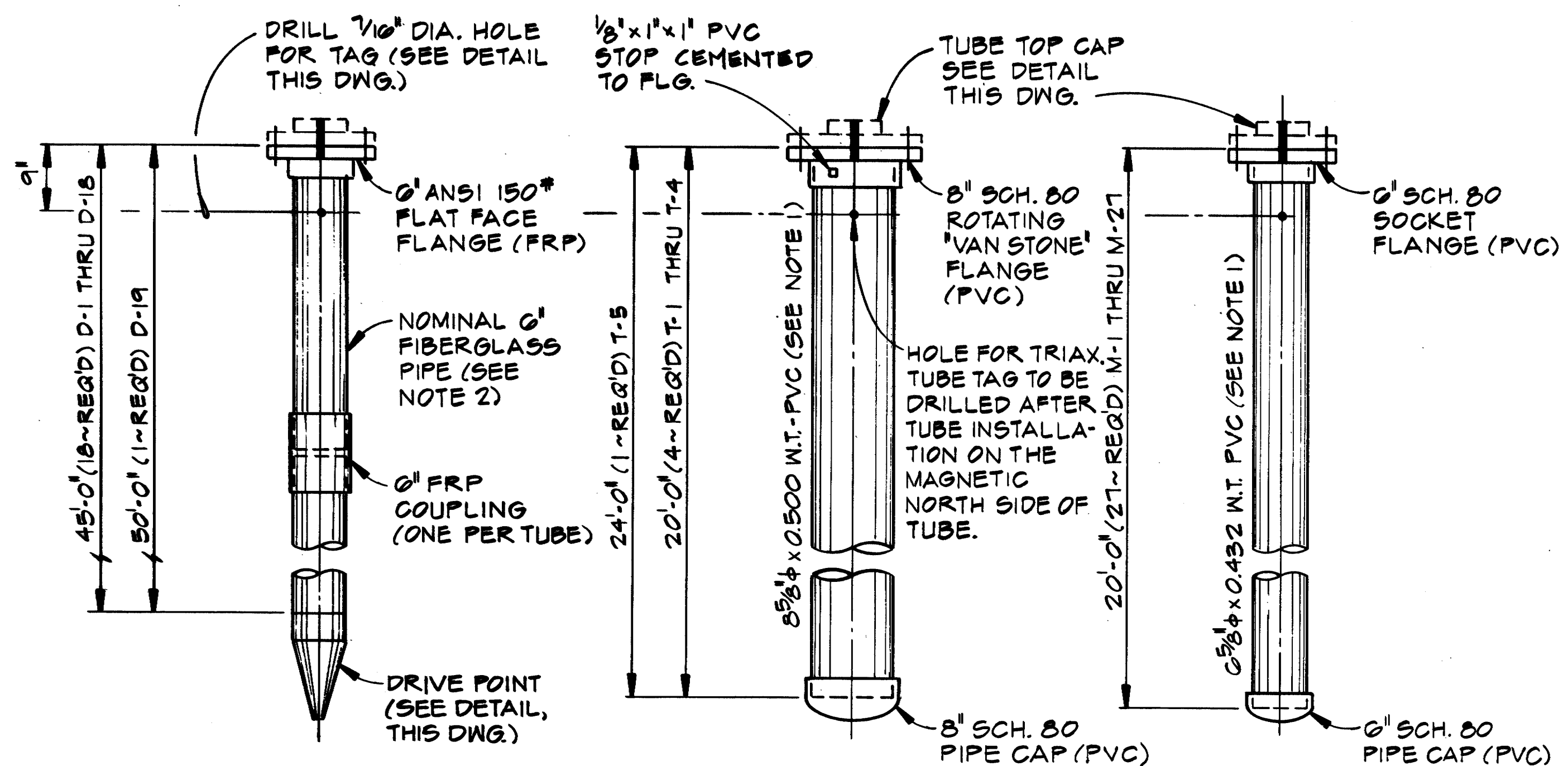
LEGEND:

- - VERTICAL SENSOR TUBE MEDIUM RANGE (M1-M27)
- - VERTICAL SENSOR TUBE DEEP RANGE (D1-D19)
- △ - TRIAXIAL SENSOR TUBE (T1-T5)
- ▽ - STAKE PILE FOR SPARE VERTICAL SENSOR CABLE (VS1-VS6)
- ☆ - STAKE PILE FOR SPARE TRIAXIAL SENSOR CABLE (TS1)
- - CABLE SUPPORT PILES OR COMPOSITE POWER CABLE SUPPORT PILES

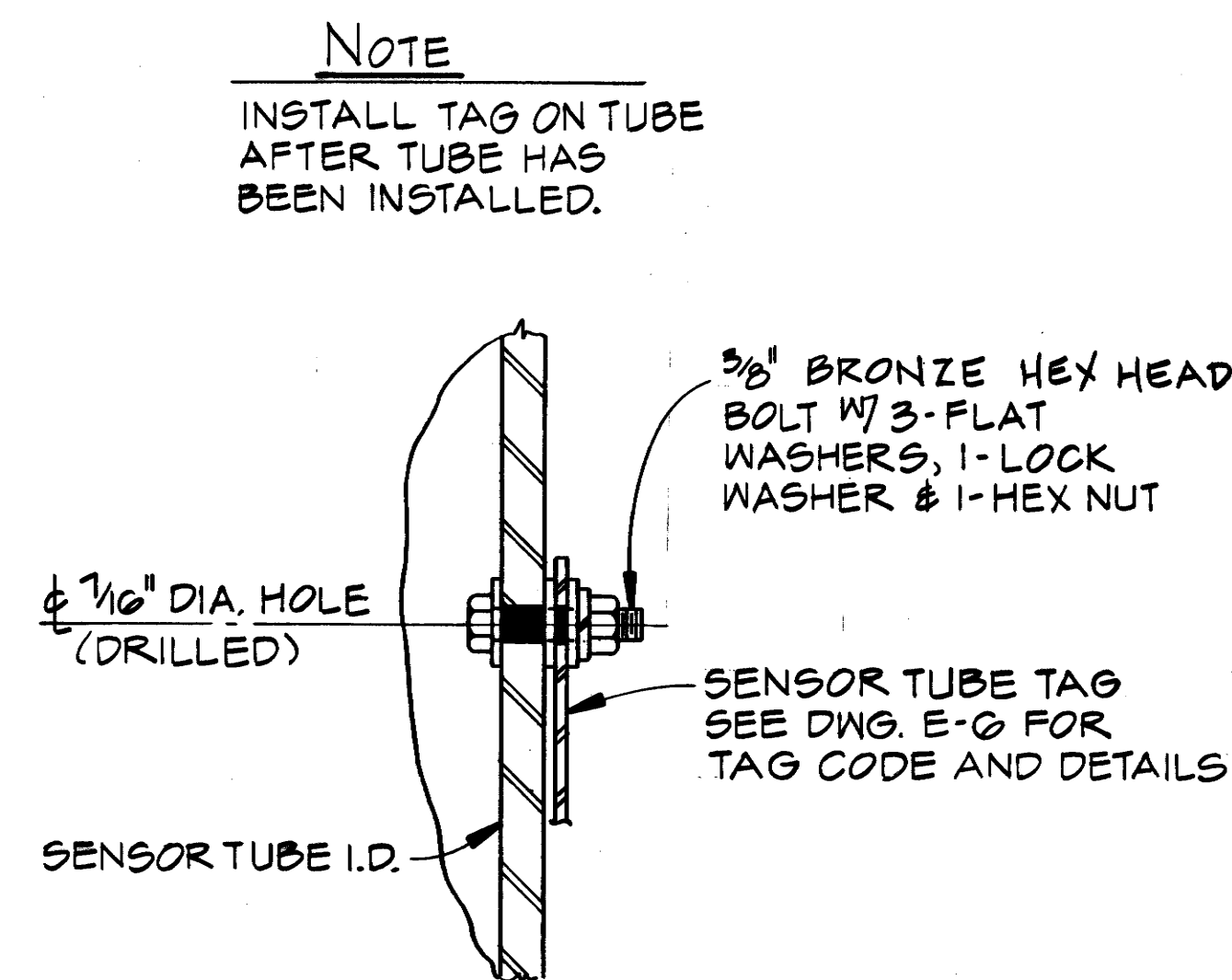
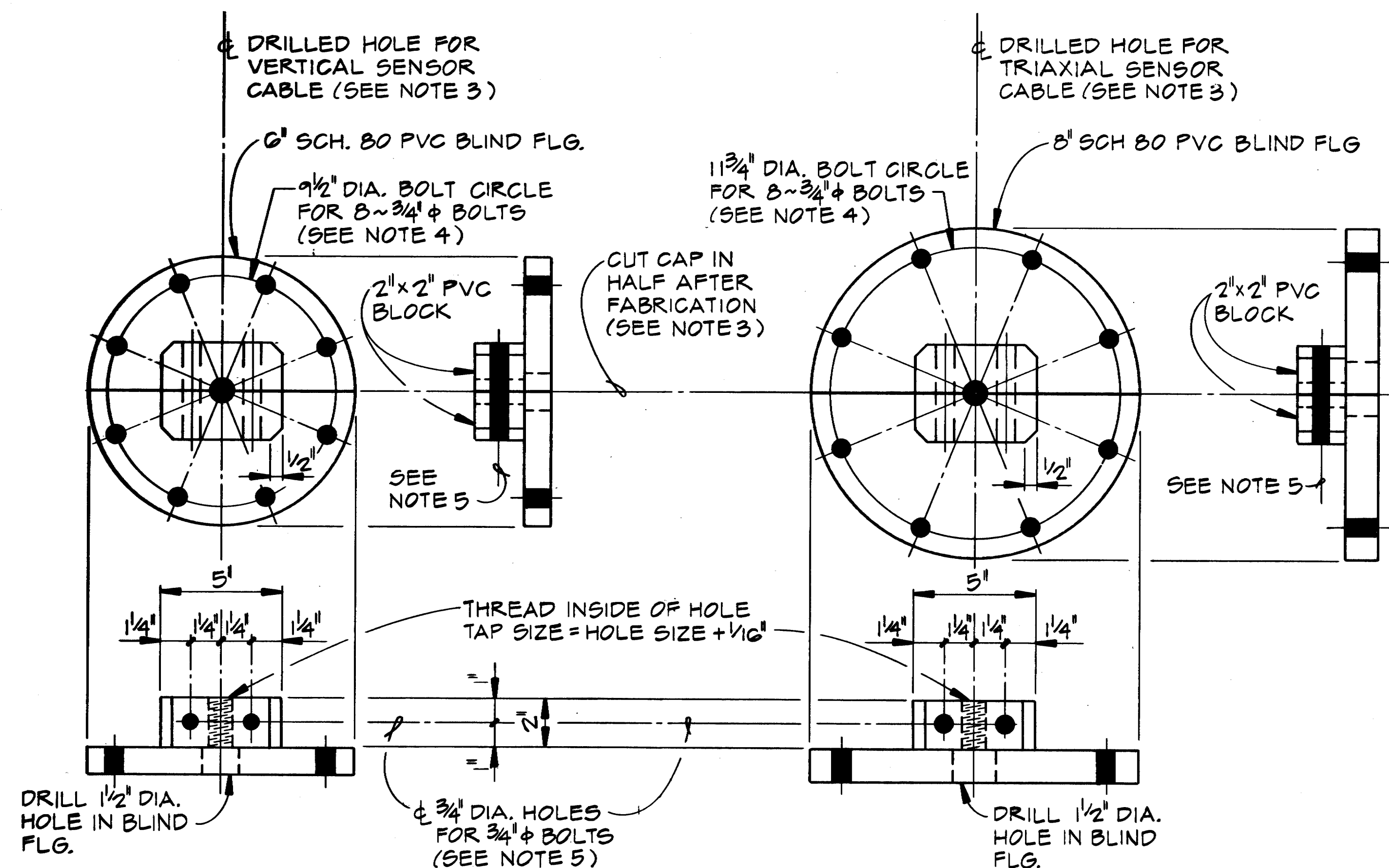
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CHESAPEAKE DIVISION		NEW LONDON, CT.	
MAGNETIC SILENCING FACILITY		SENSOR RANGE	
PLAN AND CROSS SECTION		C-4	
CODE I.D. NO. 80091	DRAWING SIZE: D	CONST. CONT. NO. N62477-88-C-0103	SPEC. 21-86-0103
NAVFAC DRAWING NO. 3050591	SHEET 5 OF 56	IF SHEET IS LESS THAN 34"x22" USE GRAPHIC SCALE.	



DEEP RANGE SENSOR TUBE TRIAXIAL SENSOR TUBE MEDIUM RANGE SENSOR TUBE



TUBE TAG CONNECTION

46 - REQUIRED

5 - REQUIRED

51 - REQUIRED

19 - REQUIRED

NOTE

INSTALL TAG ON TUBE
AFTER TUBE HAS
BEEN INSTALLED.

51 - REQUIRED

NOTES :

1. SENSOR TUBE T1 THRU T5 AND M1 THRU M27 ARE TO BE FABRICATED FROM SCH. 80, EXTRA STRONG, POLYVINYLCHLORIDE (PVC) PIPE AND FITTINGS IN ACCORDANCE WITH SPECIFICATION SECTION 02481.
2. SENSOR TUBES D1 THRU D19 ARE TO BE FABRICATED FROM FIBERGLASS REINFORCED (FRP) PIPE AND FITTINGS IN ACCORDANCE WITH SPECIFICATION SECTION 02481.
3. DRILL HOLES FOR SENSOR CABLES AFTER ASSEMBLY HAS BEEN CUT IN HALF. CHAMFER EDGES OF HOLE $\frac{1}{16}$ " TO PREVENT CABLE DAMAGE DURING CLAMPING. HOLE SIZE EQUALS CABLE O.D. LESS $\frac{1}{8}$ " (0.125).
4. FLANGE BOLTS, NUTS AND WASHERS THIS SHEET SHALL BE CONSTRUCTED OF FIBERGLASS MATERIAL SUITABLE FOR THEIR INTENDED USE. BOLTS SHALL BE FURNISHED W/ FLAT WASHERS AND HEX HEAD NUTS.
5. WHEN CLAMPING CAP AROUND SENSOR CABLE, $\frac{3}{4}$ " ϕ BOLTS SHALL BE LUBRICATED WITH A LIGHT OIL AND TORQUED TO 40 FT/LBS. CABLE CLAMP BOLTS SHALL BE CONSTRUCTED OF ALUMINUM BRONZE MATERIALS. BOLTS FURNISHED WITH FLAT WASHERS AND HEX NUTS.
6. MATERIAL QUANTITIES SHOWN ON THIS DRAWING DO NOT INCLUDE CONTRACTOR FURNISHED MATERIALS FOR "TEST TUBES" OR SPARES.

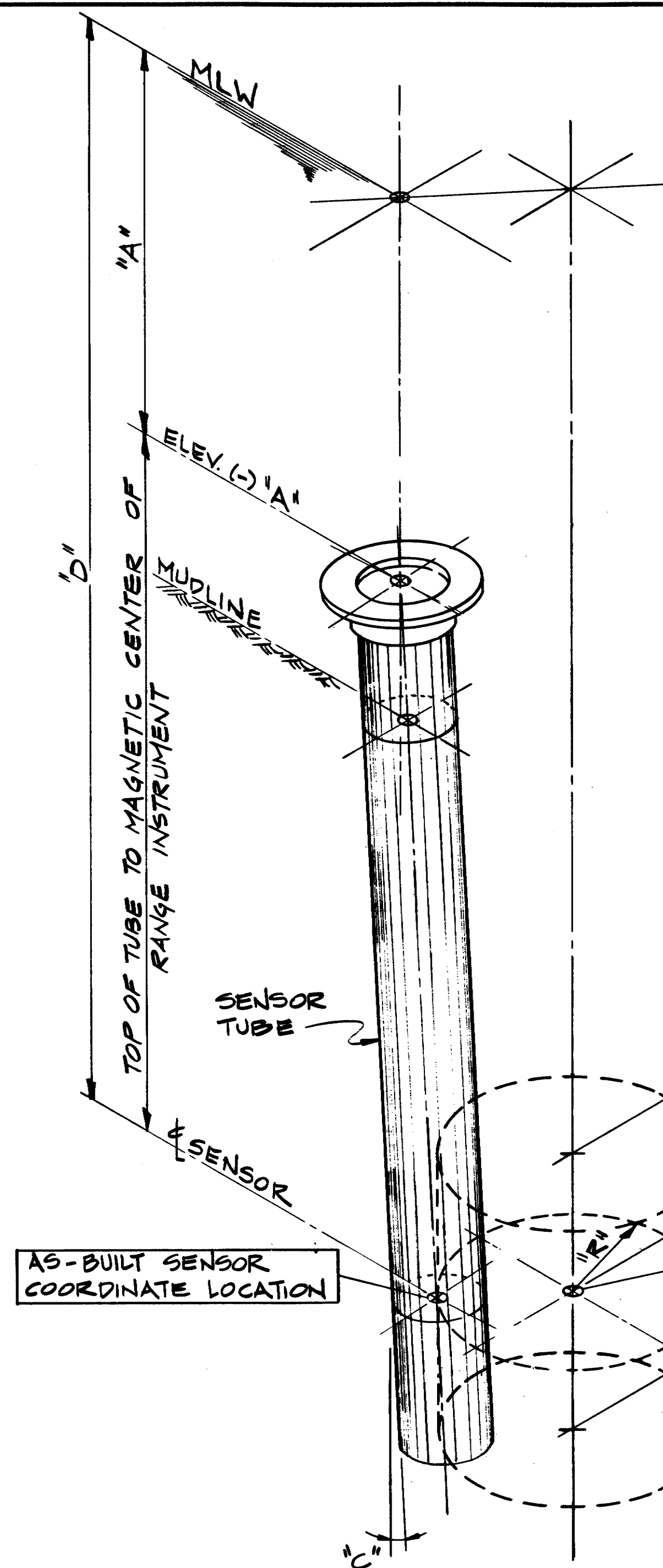
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DRAWING IS NOT TO SCALE

SENSOR TUBE DETAILS

CODE I.D. NO. 80091
DRAWING SIZE: D
CONST. CONT. NO. N62477-86-C-0103
SPEC. 2I-86-0103
NAVFAC DRAWING NO. 3050592
SHEET 6 OF 56

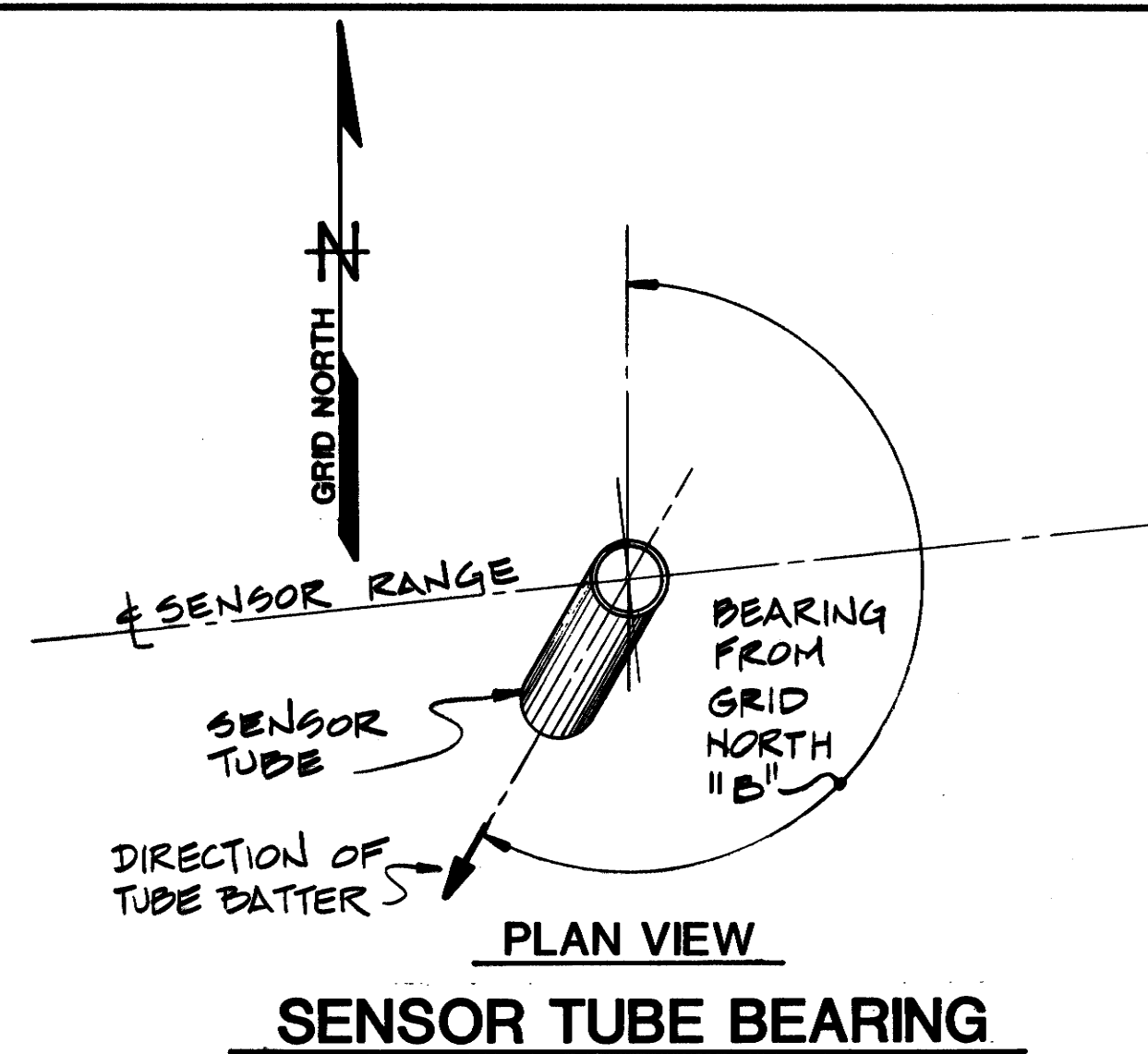
IF SHEET IS LESS THAN
34"X22" USE GRAPHIC SCALE.



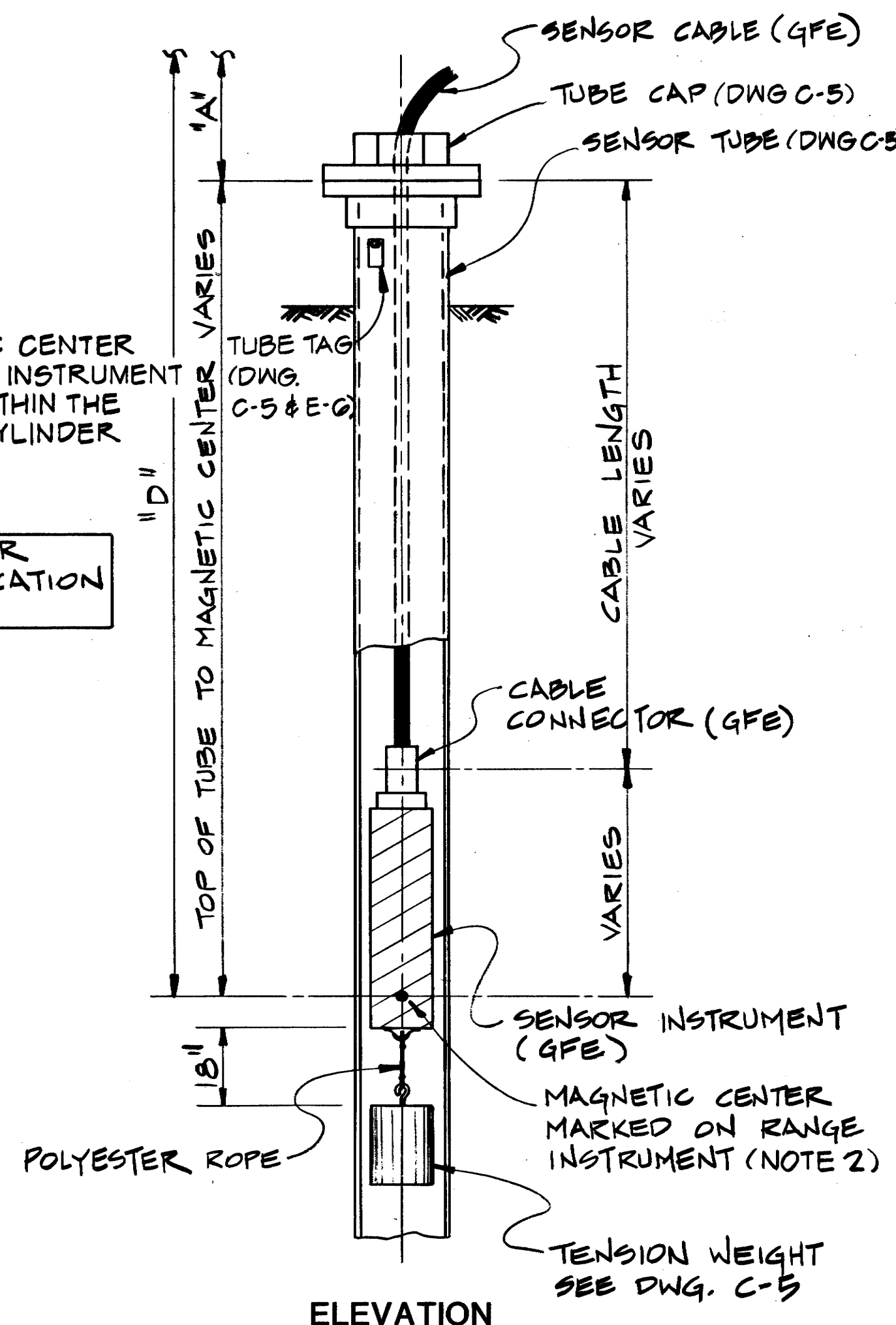
SENSOR TUBE INSTALLATION TOLERANCES

- "A" - AS INDICATED ON DRAWING C-4. (+0.0', -0.5')
- "B" - TUBE BEARING FROM GRID NORTH
- "C" - MAXIMUM DEVIATION FROM VERTICAL (SEE NOTE 1)
- "R" - MAXIMUM DEVIATION FROM HORIZONTAL:
- SENSORS D-1 THRU D-19 = 1.5' (18")
 - SENSORS M-1 THRU M-27 = 1.0' (12")
 - SENSORS T-1 THRU T-5 = 1.0' (12")

- "D" - ELEVATION OF MAGNETIC CENTER OF INSTRUMENT
MAXIMUM DEVIATION FROM DESIGN ELEVATION:
- SENSORS D-1 THRU D-19 (EL. (-) 54.5) = $\pm 1.5'$ (18")
 - SENSORS M-1 THRU M-27 (EL. (-) 54.5) = $\pm 1.0'$ (12")
 - SENSORS T-1 THRU T-5 (EL. (-) 54.5) = $\pm 1.0'$ (12")



PLAN VIEW SENSOR TUBE BEARING



ELEVATION SENSOR INSTALLATION

AS-BUILT DIMENSIONS								
TUBE TAG NUMBER	TOP OF TUBE ELEVATION "A"	INSTALLED BEARING "B"	INSTALLED ANGLE "C"	SENSOR DEPTH "D"	OFFSET "R"	SENSOR SERIAL NUMBER	INSTALLED COORDINATES	
							NORTH	EAST
M-1								
M-2								
M-3								
M-4								
M-5								
M-6								
M-7								
M-8								
M-9								
M-10								
M-11								
M-12								
M-13								
M-14								
M-15								
M-16								
M-17								
M-18								
M-19								
M-20								
M-21								
M-22								
M-23								
M-24								
M-25								
M-26								
M-27								
D-1								
D-2								
D-3								
D-4								
D-5								
D-6								
D-7								
D-8								
D-9								
D-10								
D-11								
D-12								
D-13								
D-14								
D-15								
D-16								
D-17								
D-18								
D-19								
T-1								
T-2								
T-3								
T-4								
T-5								

1. THE MAXIMUM DEVIATION FROM VERTICAL WHICH OCCURS BETWEEN THE TOP AND BOTTOM OF THE TUBE IS MEASURED AS "C". MEASUREMENTS SHALL BE TAKEN AT A MINIMUM OF FIVE EQUALLY SPACED INCREMENTS ALONG THE LENGTH OF THE TUBE. THE REPORTED "C" SHALL BE THE MAXIMUM OF THE FIVE MEASUREMENTS AND SHALL NOT EXCEED THREE (3) DEGREES.
2. MAGNETIC CENTER OF INSTRUMENT SHALL BE LOCATED AS SHOWN ON NAVSEA DWG. 6163251, SHEET 3 OF 9. CONTRACTOR TO PAINT A 1/2" BAND AROUND SENSOR CASING ACCORDING TO GOVERNMENT INSTRUCTIONS.



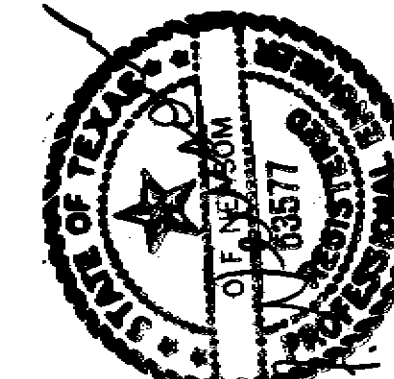
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DRAWING NOT TO SCALE

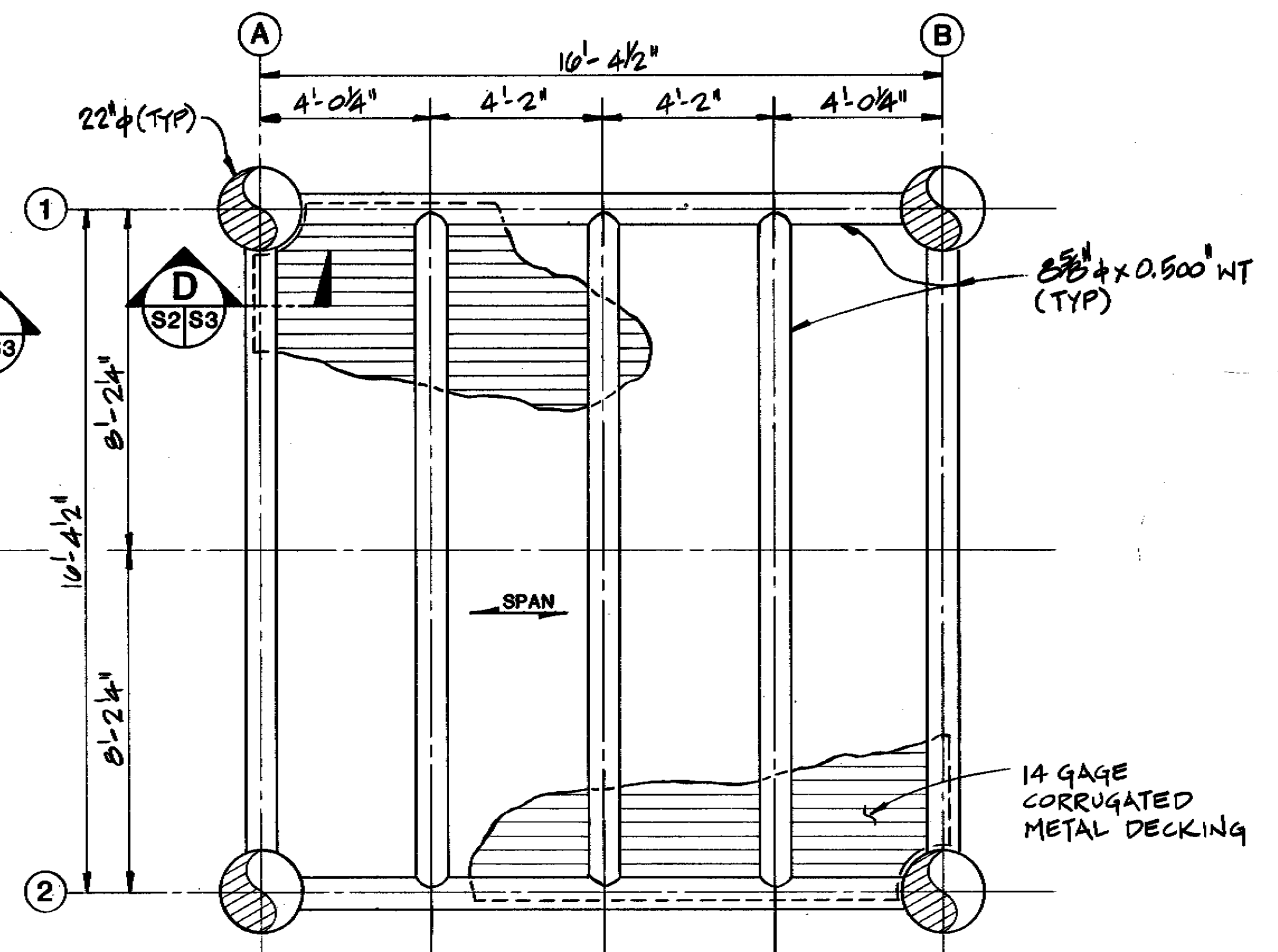
FLUOR ENGINEERS, INC. HOUSTON DIVISION LES OFN OR OFN E.I.C. OFN DATE REVIEWED BY ROIC DATE APPROVED DATE		CHESAPEAKE DIVISION MAGNETIC SILENCING FACILITY NEW LONDON, CT. CODE I.D. NO. 80091 DRAWING SIZE: D CONST. CONT. NO. N62477-86-C-0103 SPEC. 21-86-0103 NAVFAC DRAWING NO. 3050593 SHEET 7 OF 56		SENSOR TUBE INSTALLATION DETAILS	
APPROVED DATE REVIEWED BY ROIC DATE APPROVED DATE		APPROVED DATE REVIEWED BY ROIC DATE APPROVED DATE		APPROVED DATE REVIEWED BY ROIC DATE APPROVED DATE	



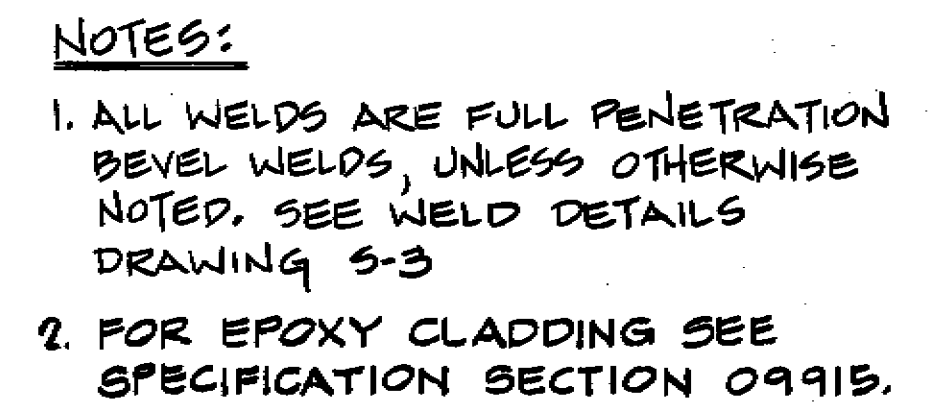
DESIGN LIFE	20 YEARS
RETURN PERIOD	50 YEARS
WATER DEPTH	18.5' MLW
STORM SURGE + TIDE	10.9'
STILL WATER DEPTH	30.4'
MAXIMUM WAVE HEIGHT	15.3'
CREST ELEVATION	22.7'
WIND SPEED	103 MPH
CURRENT	2.2 FPS
RIVER ICE	6 INCHES
EARTHQUAKE	ZONE 2
SNOW LOAD	20 PSF
DEAD LOAD	STRUCTURE WEIGHT + 10%
LIVE LOAD	DECK BEAMS 100 PSF
	WALKWAYS 100 PSF
	STAIRS 100 PSF
CONCENTRATED LOAD	
	DECK BEAMS 1000 LBS
	WALKWAYS 1000 LBS
	STAIRS 1000 LBS
EQUIPMENT LOAD	
	DCS BUILDING AND CONCRETE DECK 60,000 LBS
	CABLES 2,600 LBS



DEPARTMENT OF THE NAVY CHESAPEAKE DIVISION WASHINGTON, DC		NAVAL FACILITIES ENGINEERING COMMAND NEW LONDON, CT.	
MAGNETIC SILENCING FACILITY		DCS PLATFORM OVERALL ELEVATIONS	
CODE I.D. NO. 80091		DRAWING SIZE: D	
CONST. CONT. NO. N62477-86-C-0103		SPEC. 21-86-0103	
NAVFAC DRAWING NO. 3050595		SHEET 9 OF 56	
S-1			



PLAN AT EL.(-) 19.5'

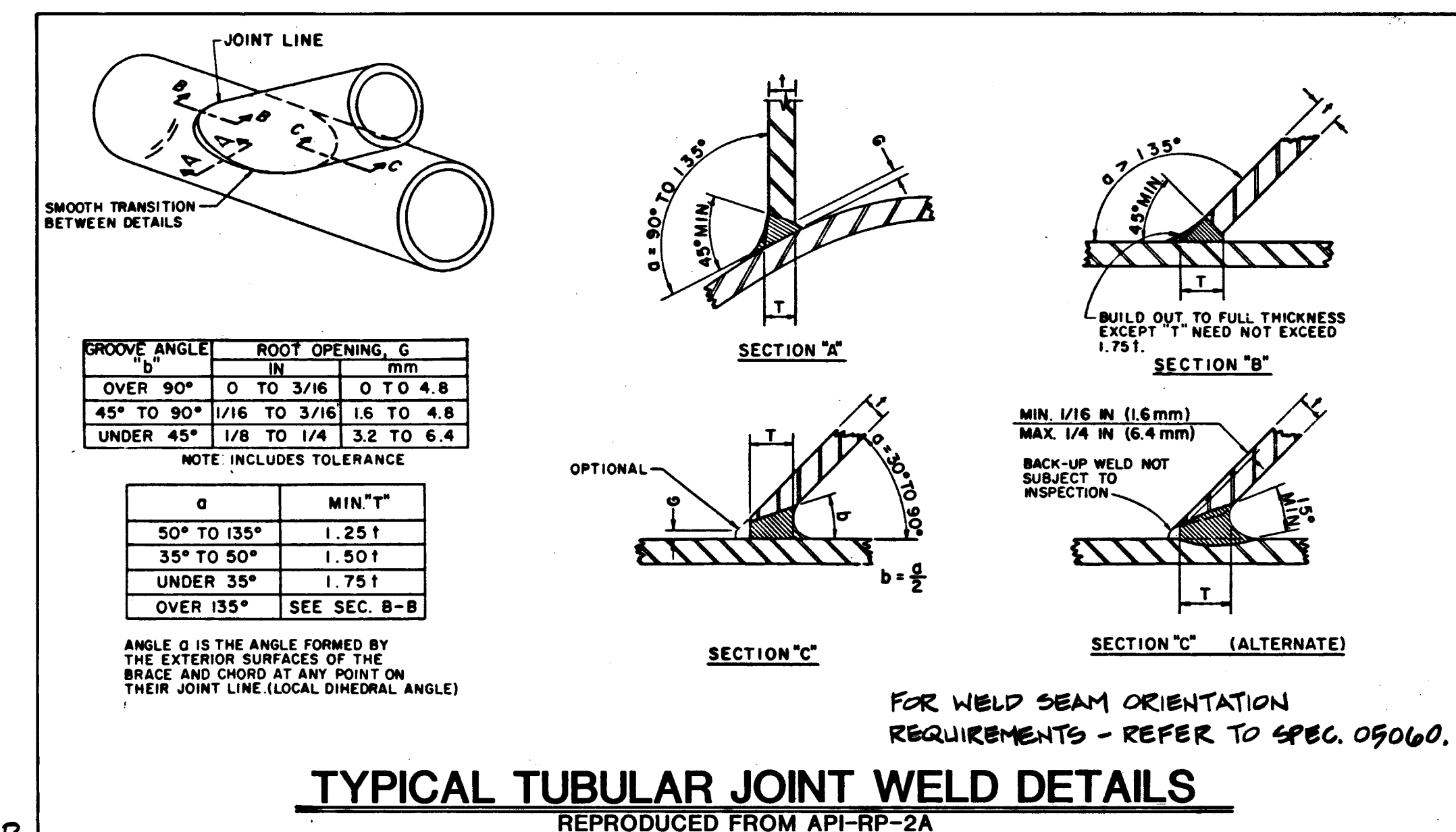
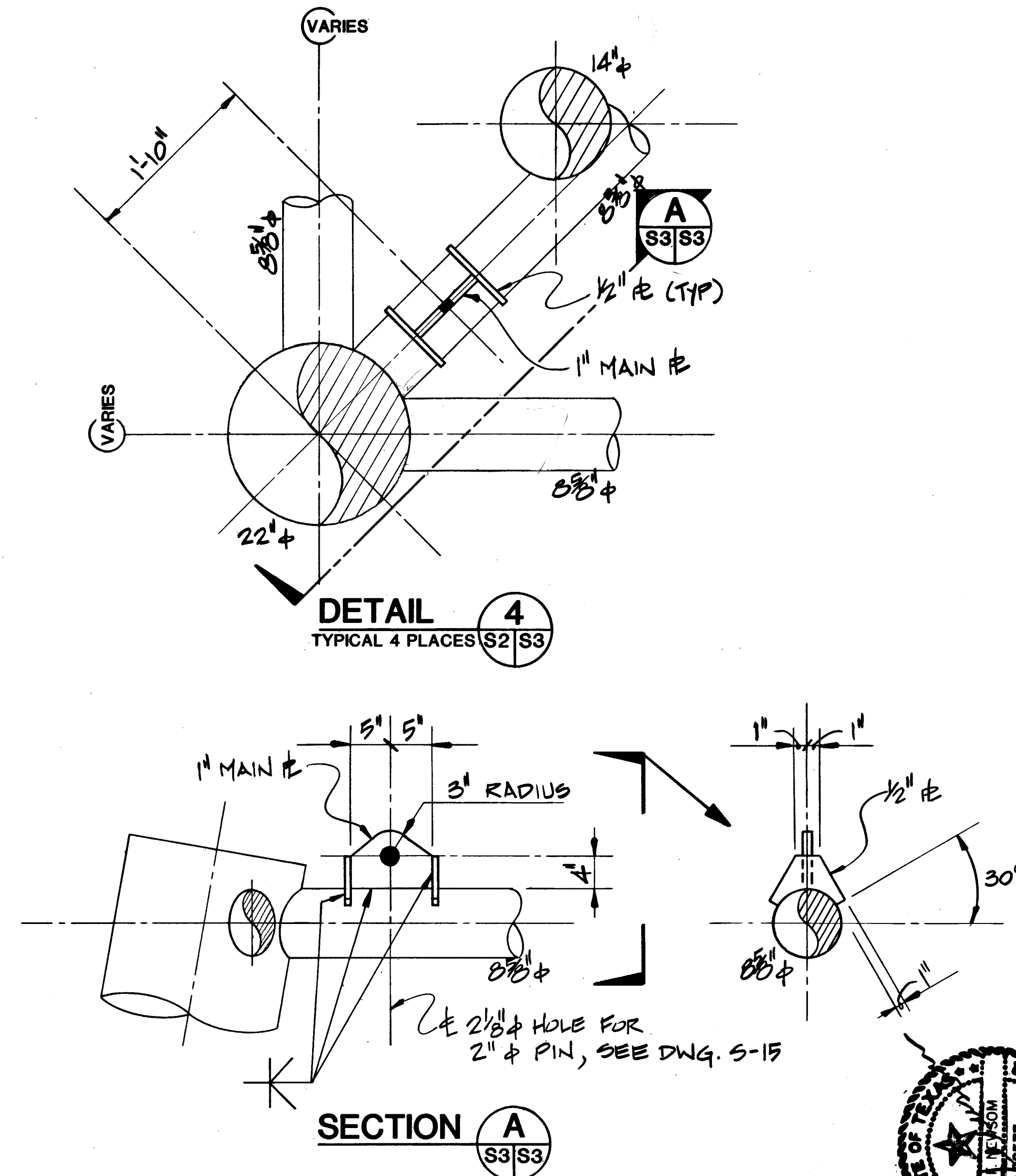
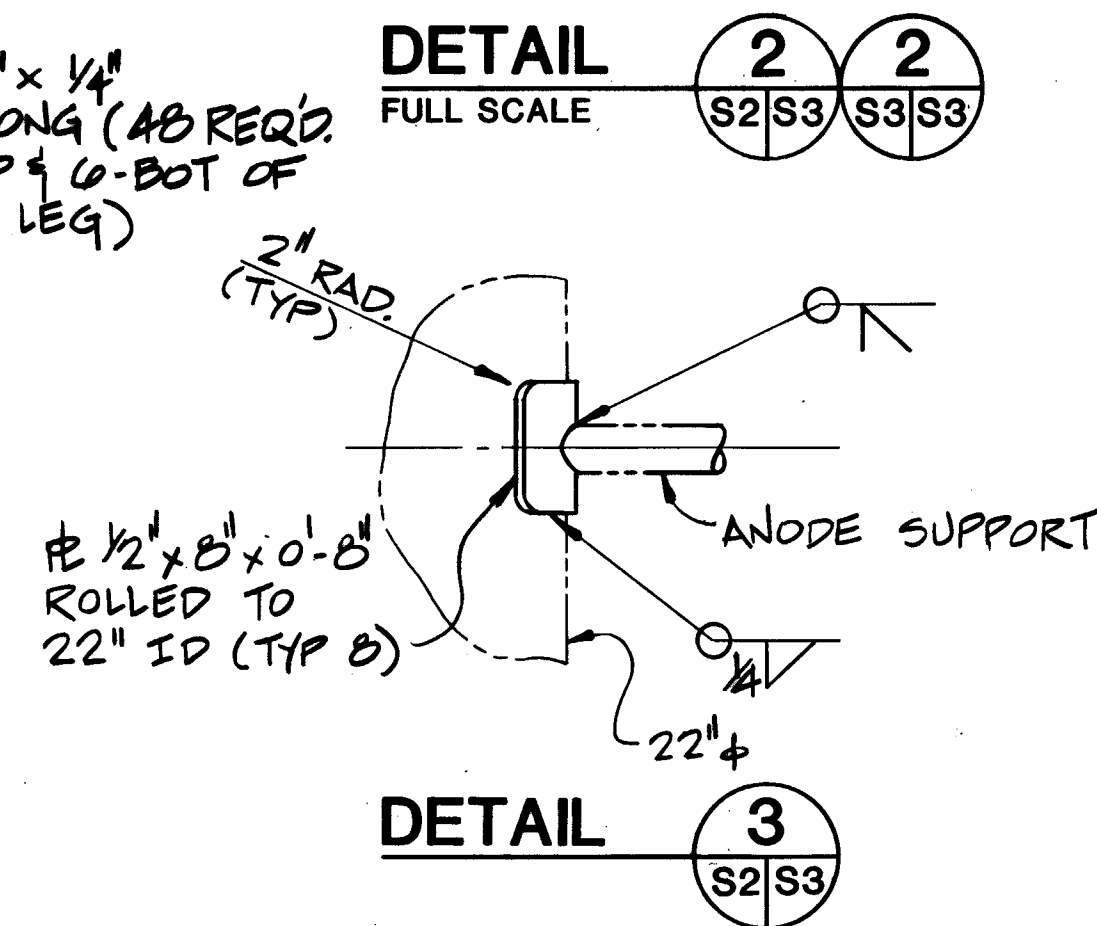
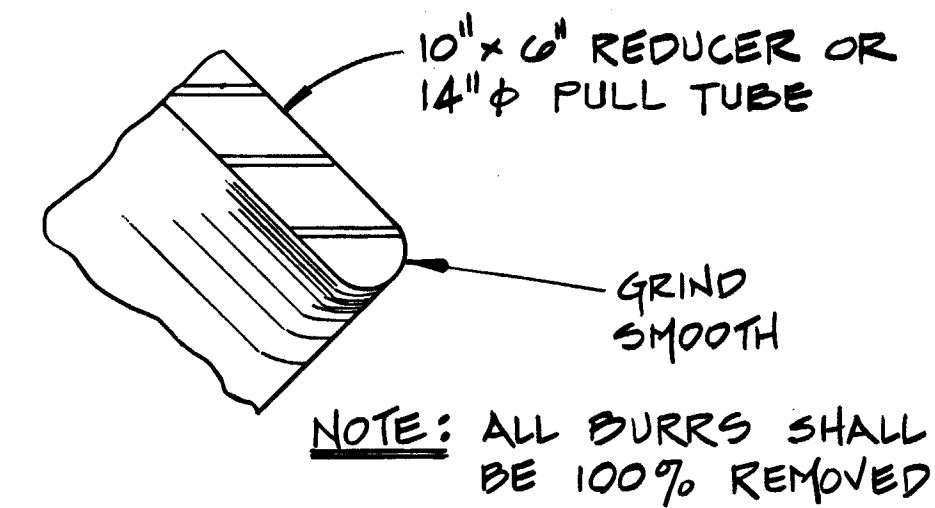
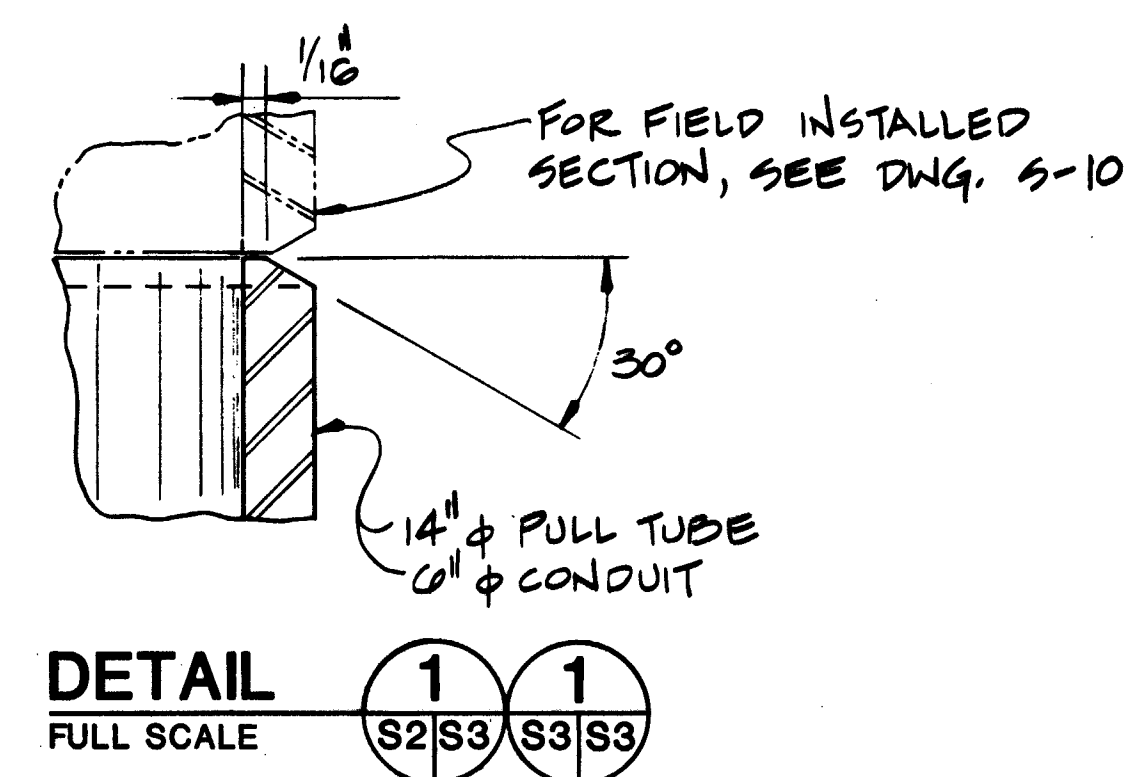
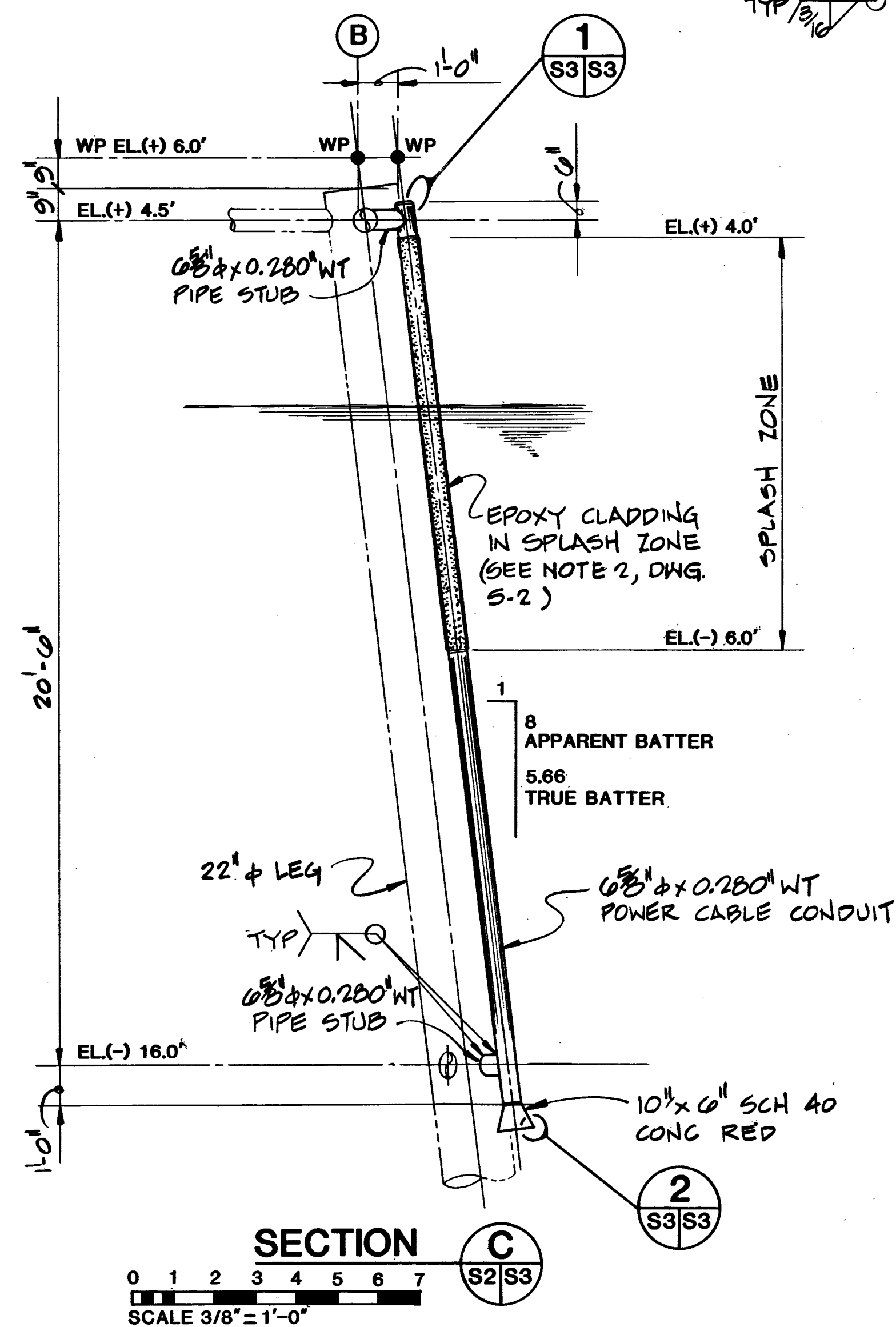
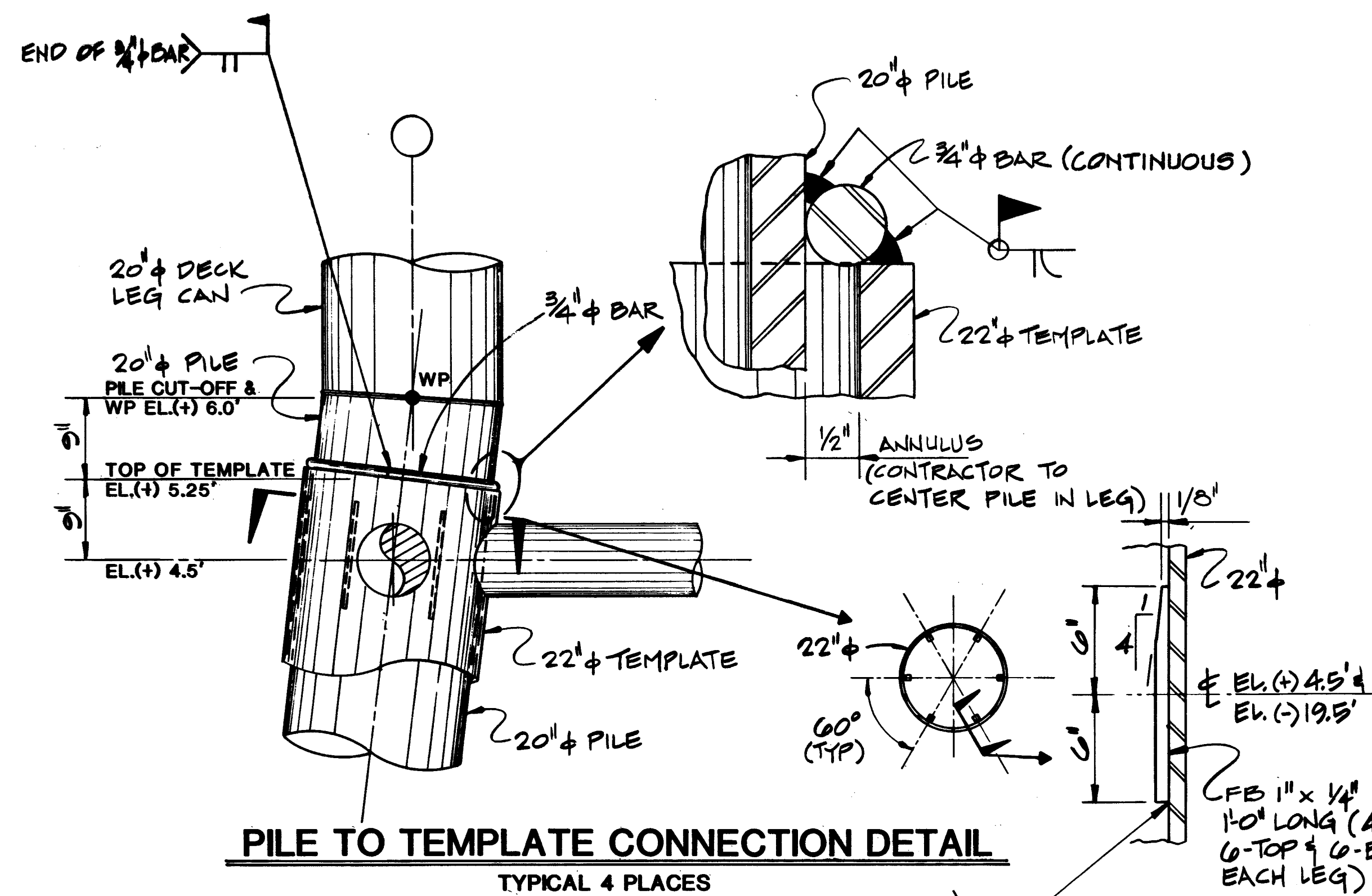


DEPARTMENT OF THE NAVY	CHESAPEAKE DIVISION	NAVAL FACILITIES ENGINEERING COMMAND
MAGNETIC SILENCING FACILITY		NEW LONDON, CT.
<h1 style="text-align: center;">PILE TEMPLATE PLANS AND ELEVATION</h1>		
CODE I.D. NO. 8009I		
DRAWING SIZE: D		
CONST. CONT. NO. N62477-86-C-0103		
SPEC. 2I-86-0103		
NAVFAC DRAWING NO. 3050596		
SHEET 10 OF 56		
S-2		

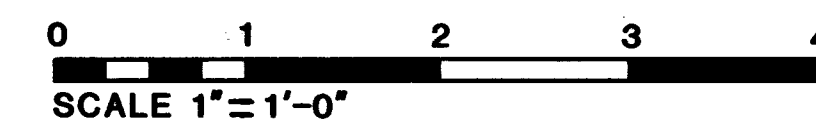
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DURING REDUCTION OR OTHER REPRODUCTION
PROCESS. USER IS CAUTIONED AGAINST SCALING."**





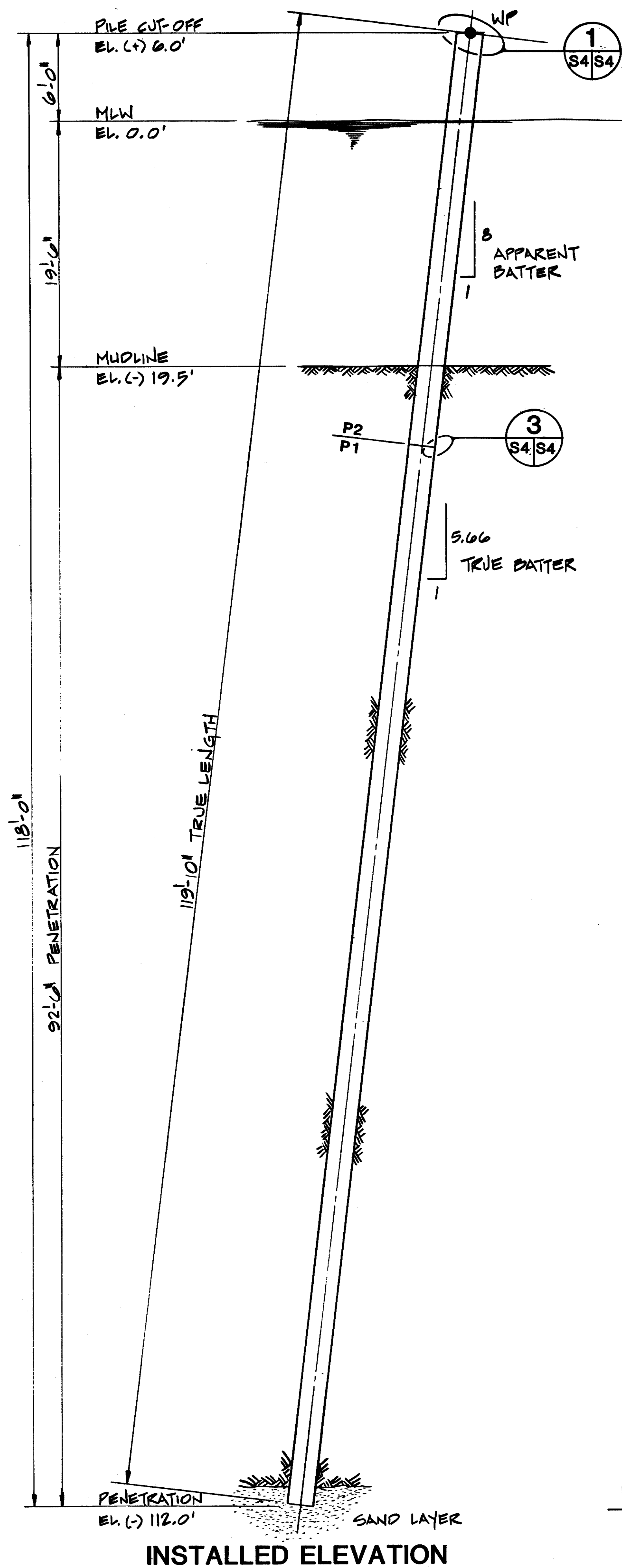
IF SHEET IS LESS THAN
34"X22" USE GRAPHIC SCALE.



**"WARNING: DRAWING MAY BECOME DISTORTED
DURING REDUCTION OR OTHER REPRODUCTION
PROCESS. USER IS CAUTIONED AGAINST SCALING."**



DEPARTMENT OF THE ARMY CHESAPEAKE DIVISION BATHURST, VA.		MAIL FACILITIES ENGINEERING COMMAND NEW LONDON, CT.	
MAGNETIC SILENCING FACILITY			
PILE TEMPLATE SECTIONS AND DETAILS			
CODE I.D. NO. 80091		DRAWING SIZE: D	
CONST. CONT. NO. N62477-86-C-0103		SPEC. 21-86-0103	
NAVFAC DRAWING NO. 3050597		SHEET 11 OF 56	
S-3			
			
APPROVED <i>R.E. Weger</i> EPD FOR COMMANDER, NAVFAC		DATE 4/17/88	
FUNCTIONAL APPROVAL 30176		DATE	
ZOE D. DAVIS ENGINEER		DATE	
SEAL AREA		DATE	
FLUOR ENGINEERS, INC. HUNTSVILLE DIVISION 2000 15TH AVENUE HUNTSVILLE, AL 35894-0001		FPO-10 FPO-1C E.I.C. <i>DR 2</i> SATISFACTORY TO NAVSEA	
REVIEWED BY ROICC <i>W. M. B. B. B.</i>		DATE 4/17/88	
SYMBOL		DESCRIPTION REVISIONS	
DATE		DATE	
APPROVED		DATE	

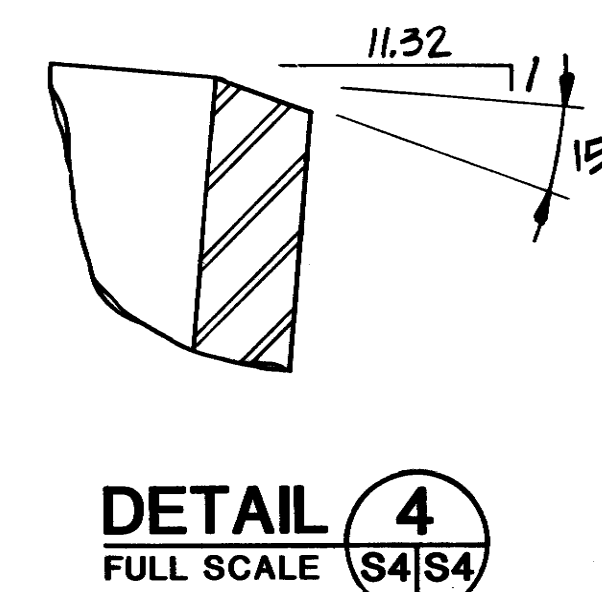
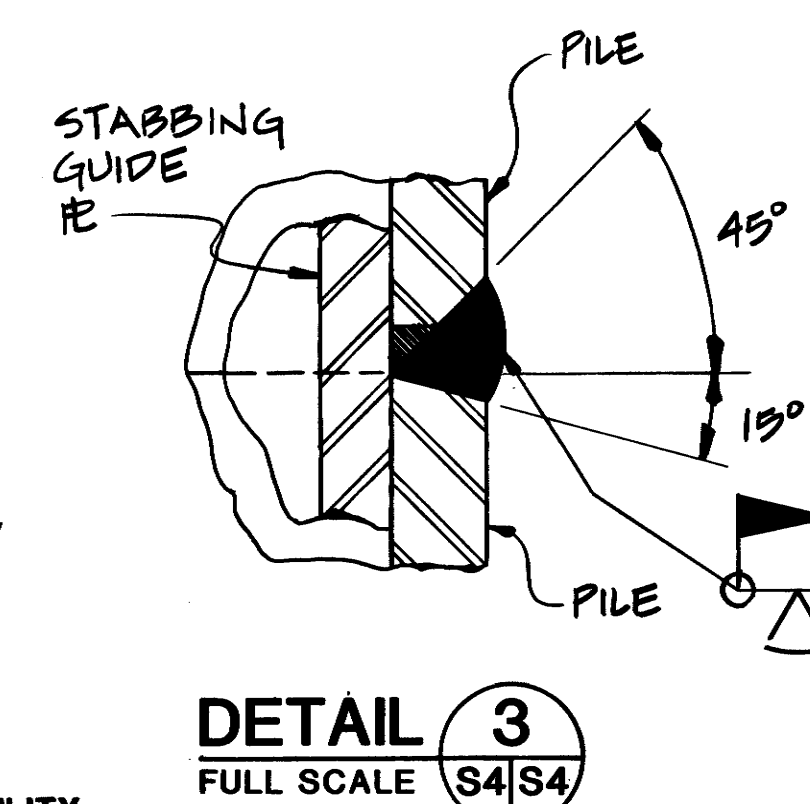
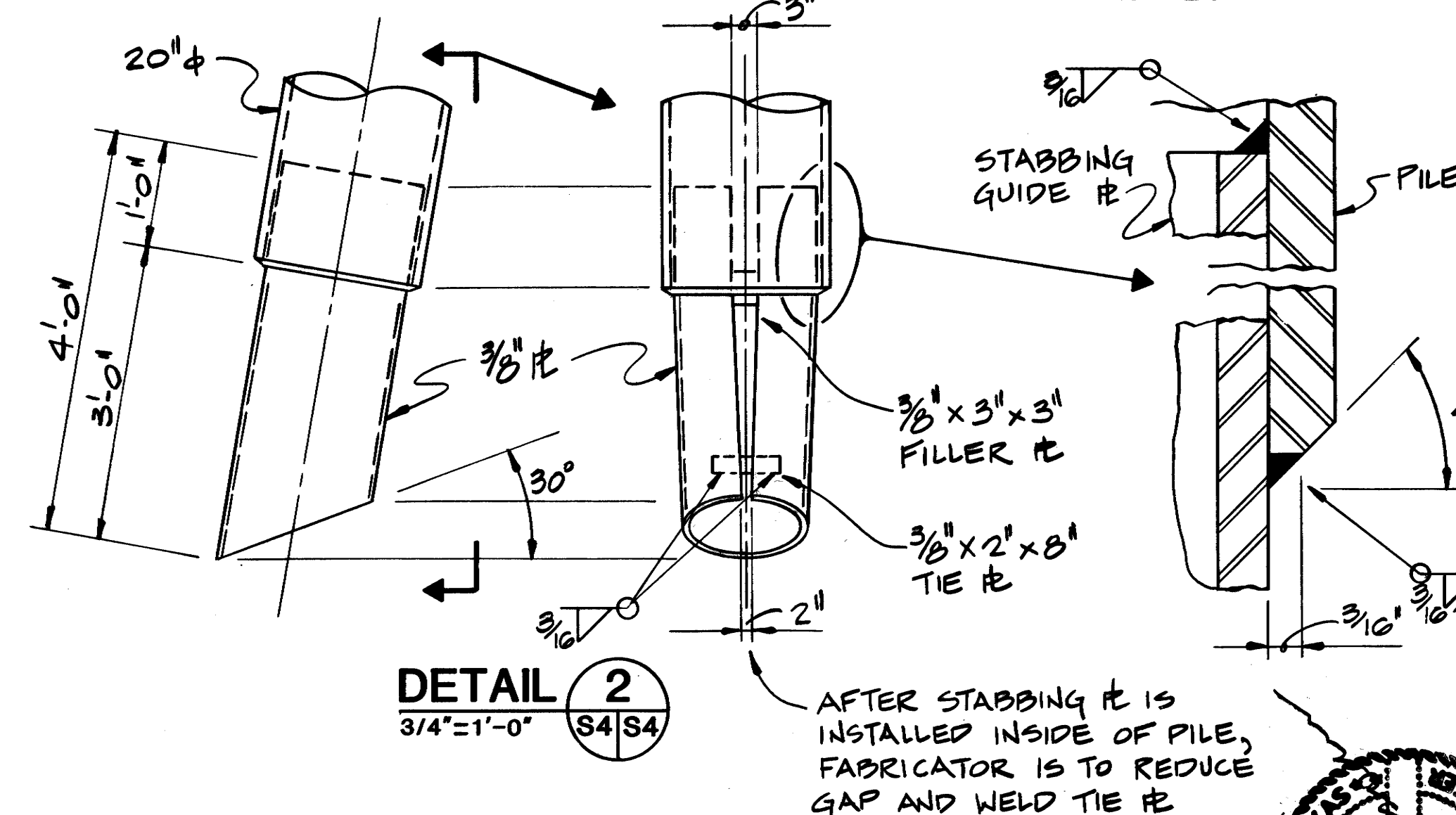
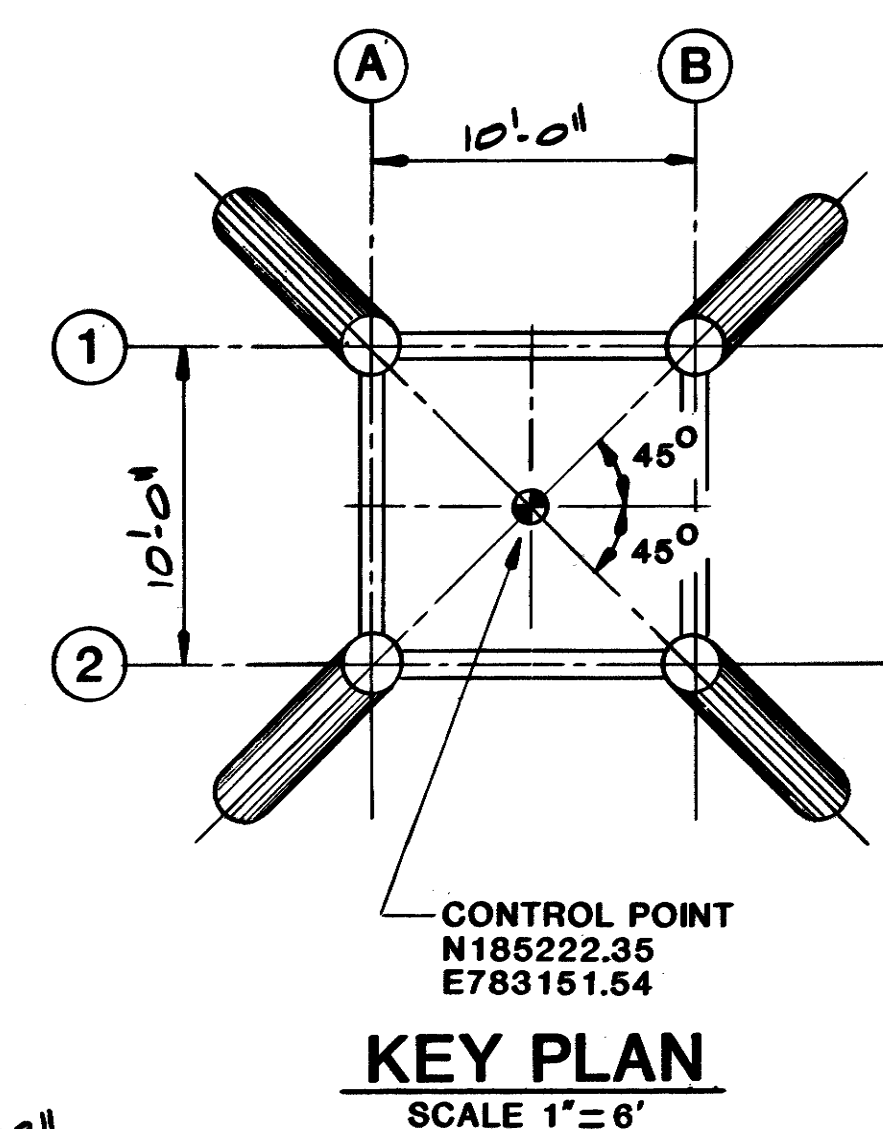
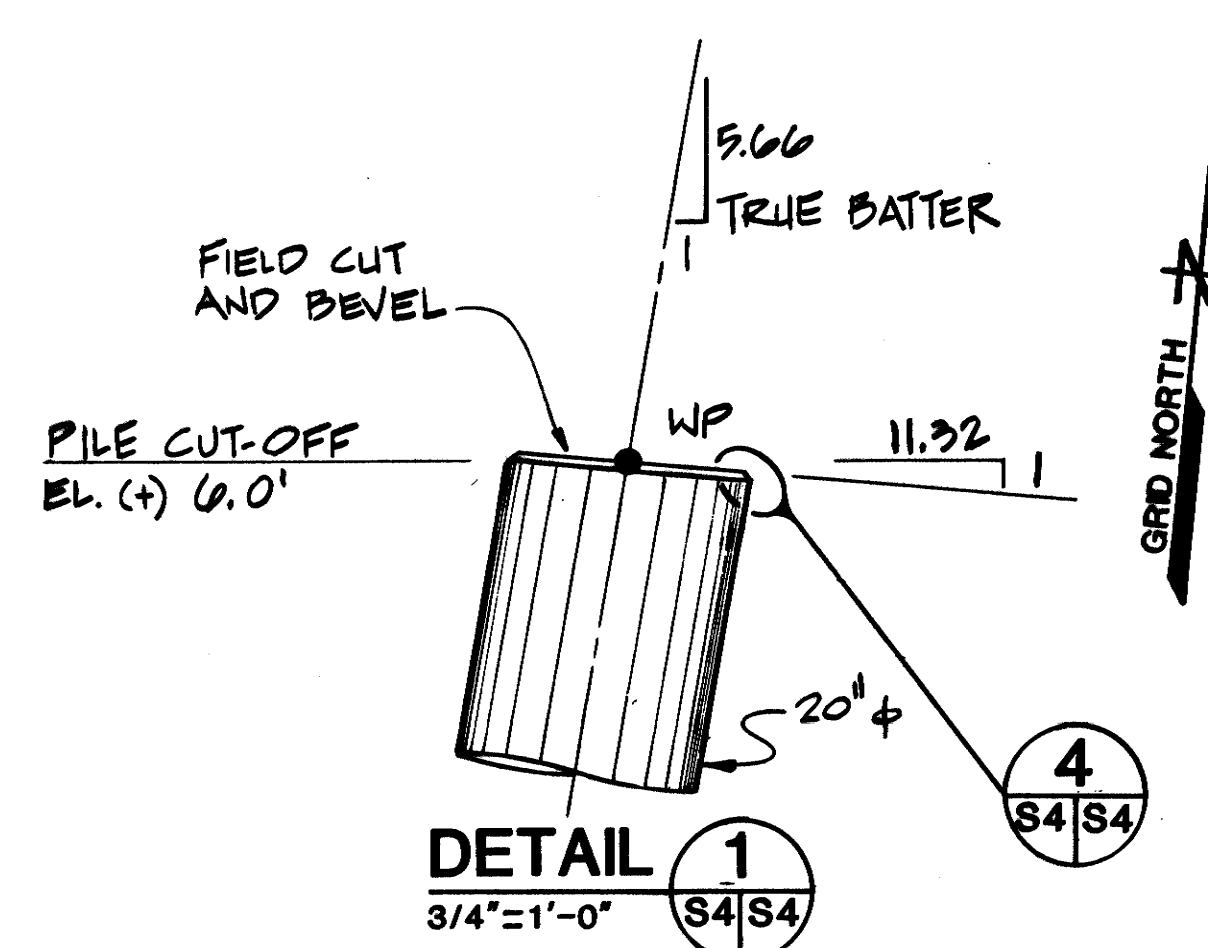


LEAD SECTION P1
4-REQUIRED
VERTICAL - 1"=6'
HORIZONTAL - NONE

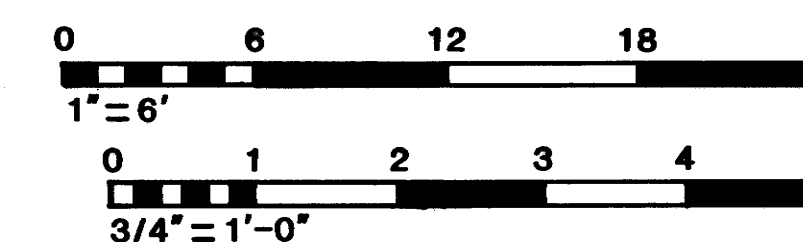
NOTES:

1. PAINT PILE MARK NUMBERS INSIDE AND OUTSIDE OF PILE SECTIONS USING 12" HIGH WHITE LETTERS.
2. LONG SIDE OF STABBING GUIDE TO BE INSTALLED ON HIGH SIDE OF BATTER.
3. PILING MATERIAL TO BE API-5L, GR. B SEAMLESS PIPE (35 KSI). ALL PLATE MATERIAL TO BE ASTM A-36 (36 KSI).
4. PILING LIFTING POINTS AND LIFTING AIDS ARE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR.
5. PILE IS PROPORTIONED FOR 2 FEET OF UNDERDRIVE AND 5 FEET OF OVERDRIVE.
6. PILE IS PROPORTIONED FOR DRIVING USING A DIESEL HAMMER HAVING A MINIMUM RATED ENERGY OF 40,000 FT-LBS AND A MAXIMUM WEIGHT OF 20,000 LBS. FINAL HAMMER SELECTION AND ADD-ON LENGTHS ARE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR.

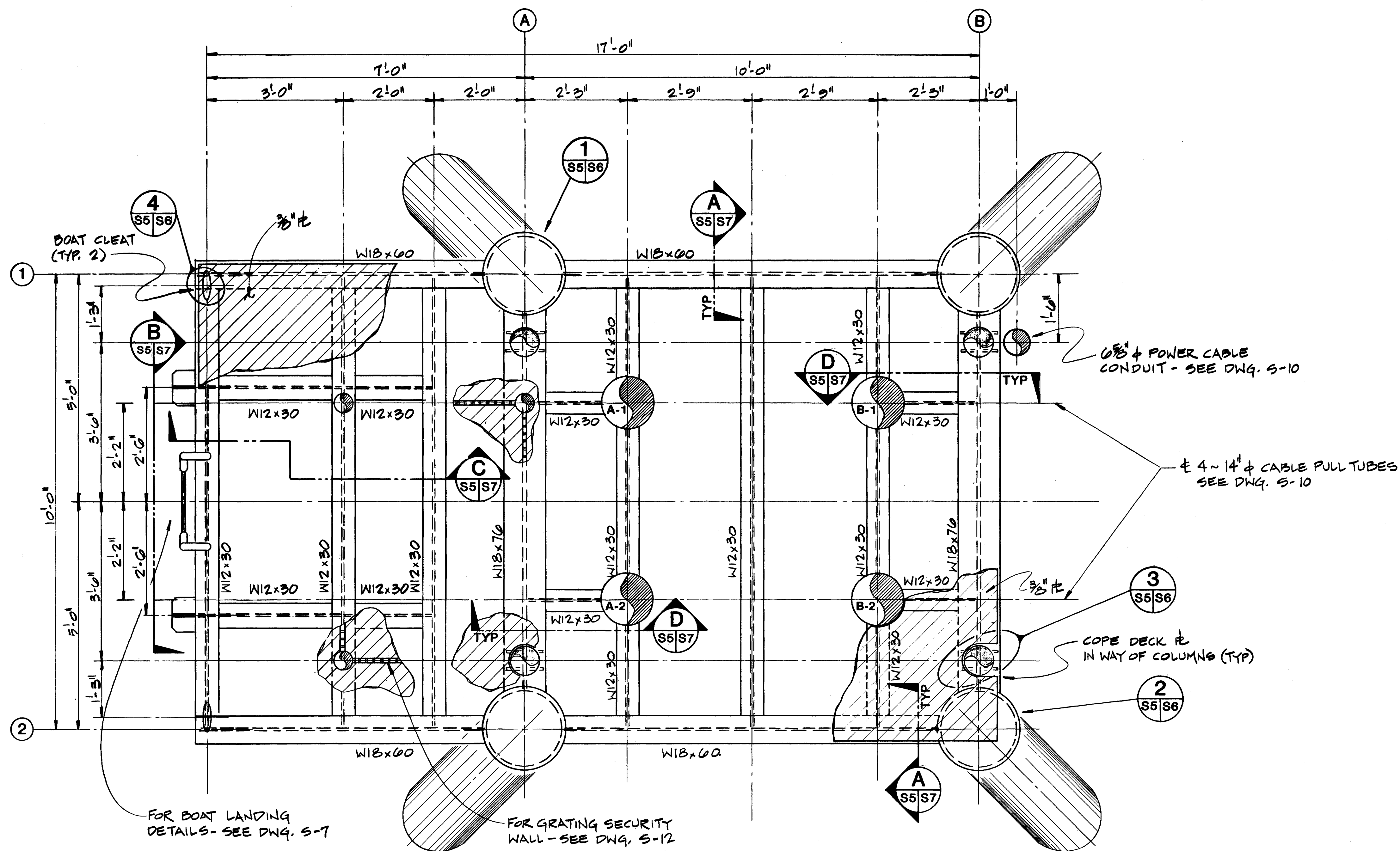
ADD-ON P2
4-REQUIRED



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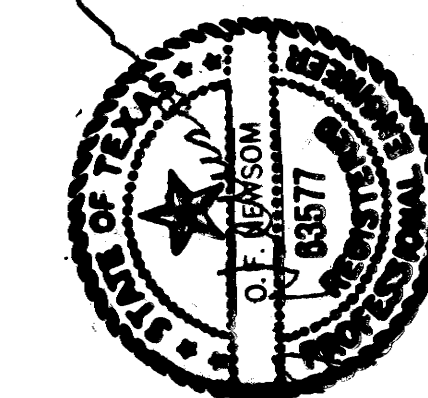
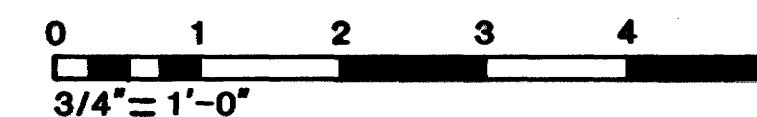


CHESAPEAKE DIVISION BOSTON, MA		NEW LONDON, CT.		DCS PLATFORM PILING DETAILS	
MAGNETIC SILENCING FACILITY					
CODE I.D. NO. 80091		CONST. CONT. NO. N62477-86-C-0103		SPEC. 21-86-0103	
DRAWING SIZE: D		NAVFAC DRAWING NO. 3050598		SHEET 12 OF 56	
DEPARTMENT OF THE NAVY		CHESAPEAKE DIVISION		NEW LONDON, CT.	
MAGNETIC SILENCING FACILITY		BOSTON, MA		DCS PLATFORM PILING DETAILS	
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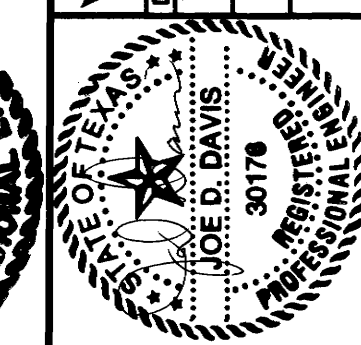
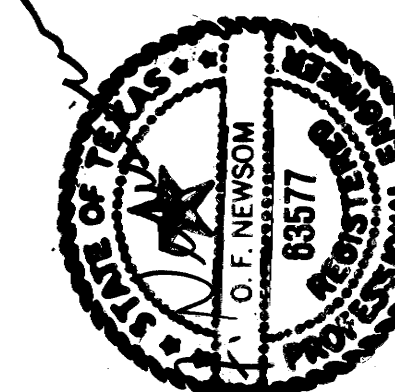
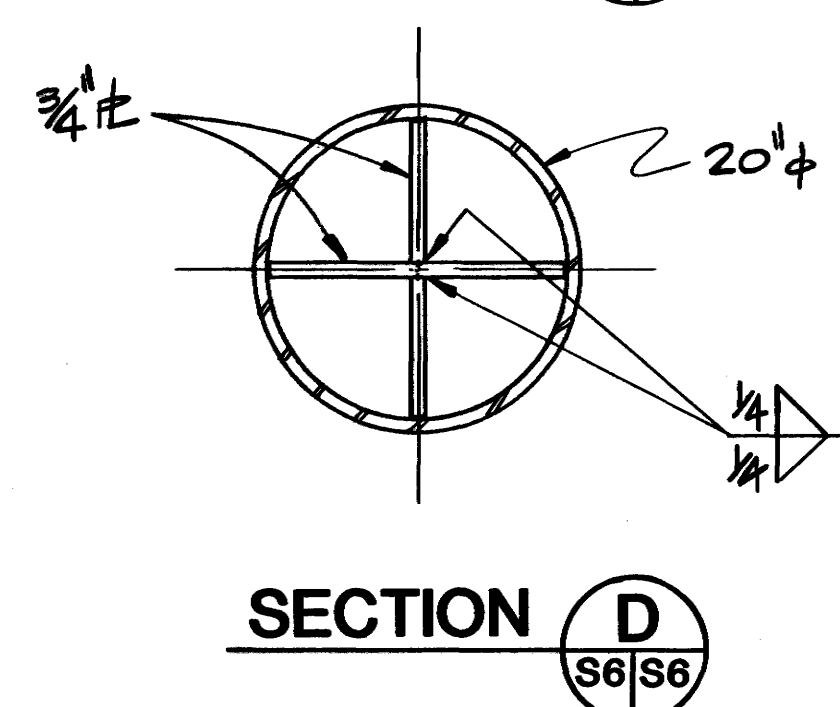
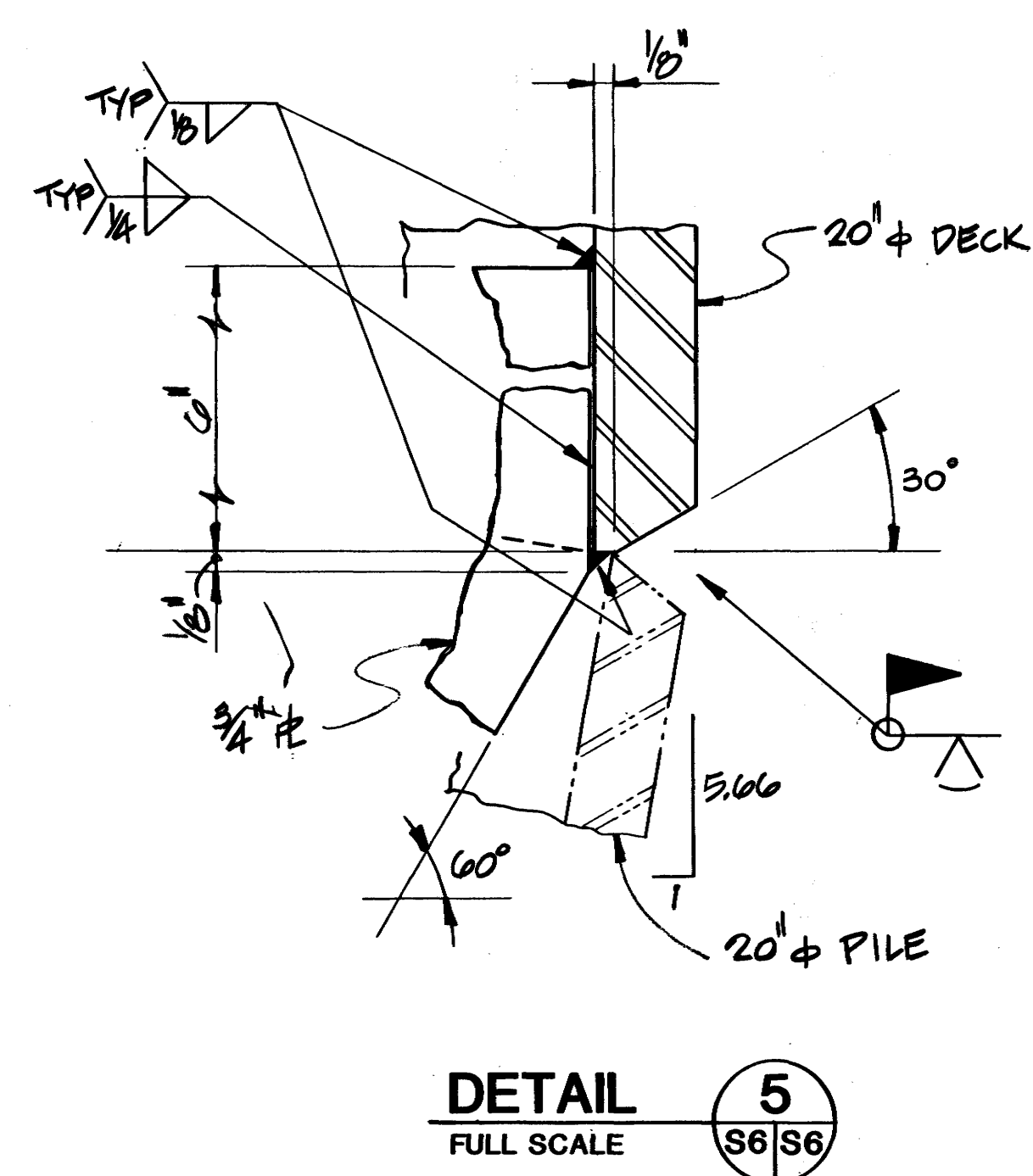
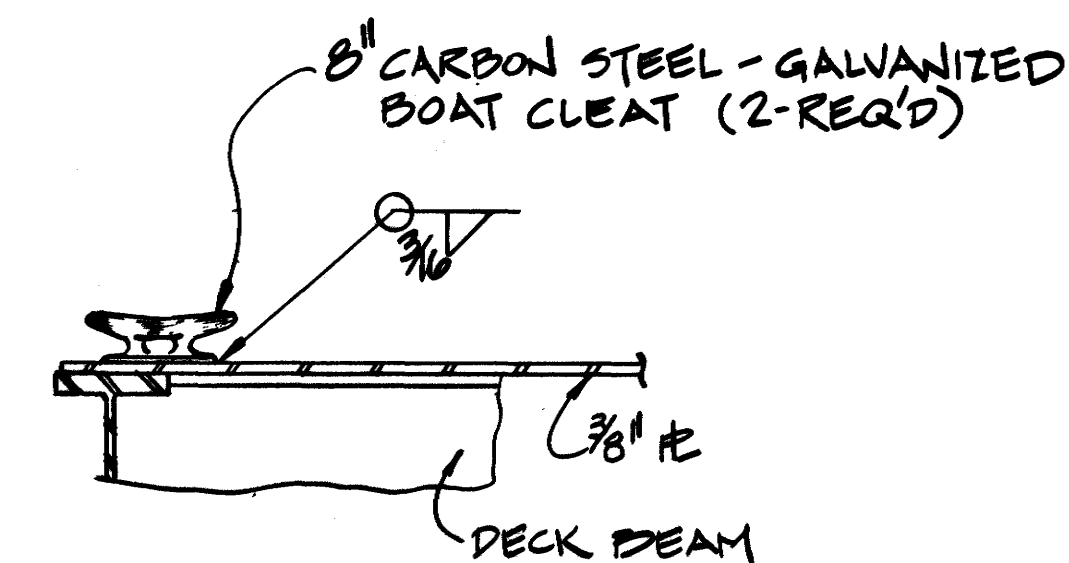


LANDING DECK FRAMING PLAN
TOS EL.(+)8.5'

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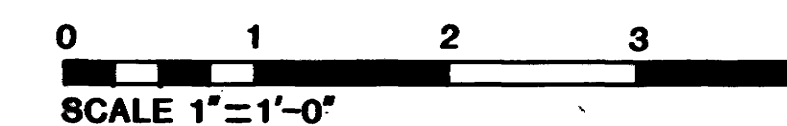
FLUOR ENGINEERS, INC. HOUSTON DIVISION DESIGNED BY: J.C. DWYER CHECKED BY: J.C. DWYER DATE: 4/1/78 FUNCTIONAL APPROVAL: J.C. DWYER APPROVED: J.C. DWYER ED FOR COMMANDER, NAVFAC	REVIEWED BY: ROIC DATE: 4/13/80	DATE: 4/13/80	DATE: 4/13/80
CHESAPEAKE DIVISION MAGNETIC SILENCING FACILITY NEW LONDON, CT	CODE I.D. NO. 80091 DRAWING SIZE: D CONST. CONT. NO. N62477-86-C-0103 SPEC. 21-86-0103 NAVFAC DRAWING NO. 3050599 SHEET 13 OF 56	DESCRIPTION DCS PLATFORM PLAN AT EL.(+) 8.5'	REVISIONS SYMBOL DATE APPROVED



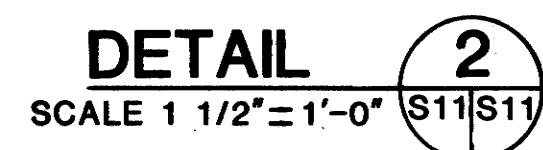
DEPARTMENT OF THE ARMY
 CHESAPEAKE DIVISION
 NEWPORT, RI 02840
 MAGNETIC SILENCING FACILITY
 NEW LONDON, CT
**DCS PLATFORM
 SECTIONS AND DETAILS**

CODE I.D. NO. 8009
DRAWING SIZE: D
CONST. CONT. NO.
N62477-86-C-010
SPEC. 2I-86-0103
NAVFAC DRAWING NO.
3050600
SHEET 14 OF 56
S-6

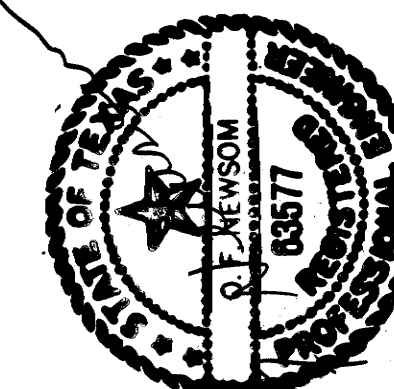
**"WARNING: DRAWING MAY BECOME DISTORTED
DURING REDUCTION OR OTHER REPRODUCTION
PROCESS. USER IS CAUTIONED AGAINST SCALING**



**IF SHEET IS LESS THAN
34"X22" USE GRAPHIC SCALE.**



1. ENTIRE STAIR TO BE HOT-DIP GALVANIZED AFTER FABRICATION.
2. STAIR TREADS ARE TO BE PREFABRICATED $14" \times 3\frac{3}{4}"$ SERRATED, GALVANIZED GRATING TREADS WITH ABRASIVE NOSING.
3. GRATING TO BE WELDED TO SUPPORTING STEEL AT EVERY FOURTH BEARING BAR USING A 1" LONG FILLET WELD.

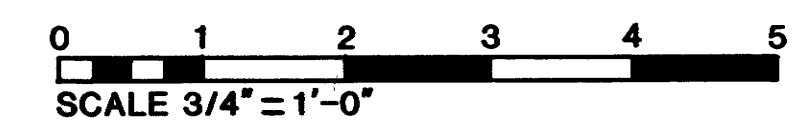



IF SHEET IS LESS THAN
34"X22" USE GRAPHIC SCALE.

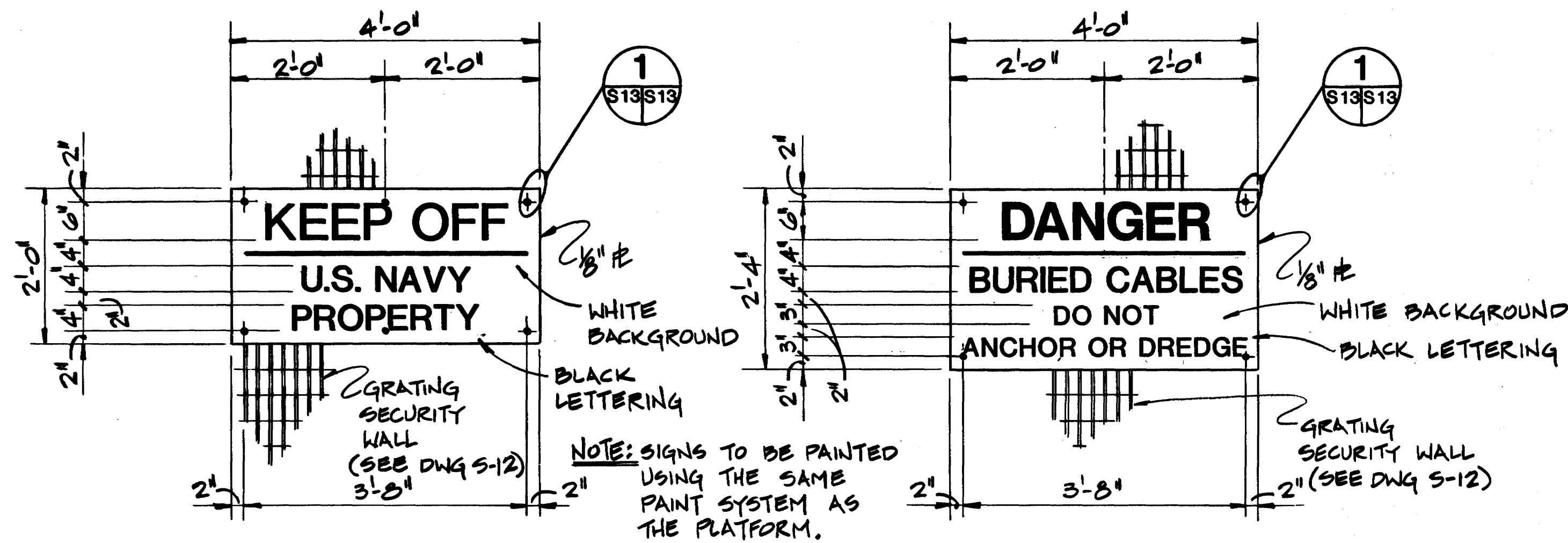


1. GRATING TO BE $\frac{3}{4}" \times \frac{1}{8}"$ BEARING BARS AT $1\frac{1}{2}"$ C/C WITH WELDED CROSS BARS AT $4"$ C/C. (UNCOATED STEEL)
2. HOT-DIP GALVANIZE GRATING PANELS AFTER FABRICATION. PROTECT MOVING PARTS,

**"WARNING: DRAWING MAY BECOME DISTORTED
DURING REDUCTION OR OTHER REPRODUCTION
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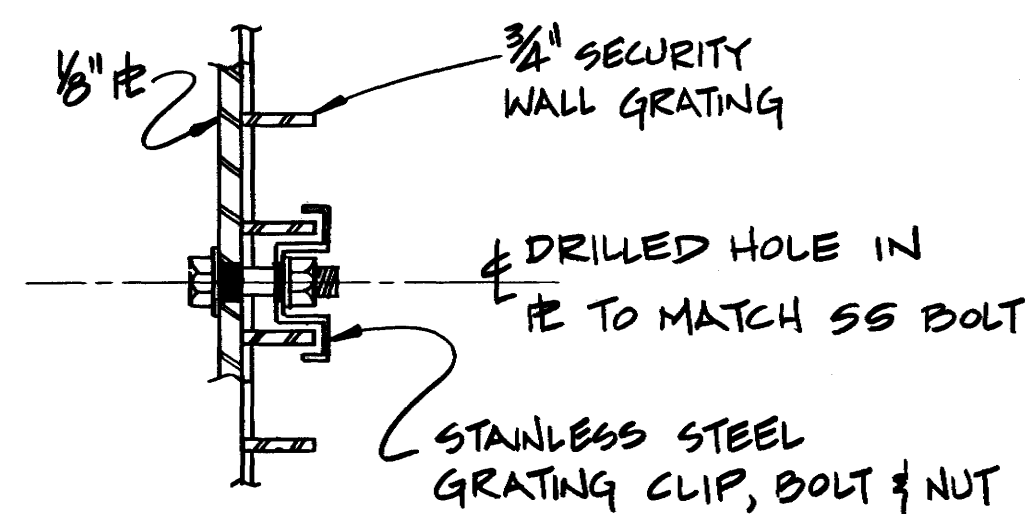
DEPARTMENT OF THE ARMY CHESAPEAKE DIVISION BAHAMONT, VA.		NEW LONDON, CT. MAGNETIC SILENCING FACILITY		 JOE D. DAVIS REGISTERED PROFESSIONAL ENGINEER 30176		APPROVED <i>R. E. G. G. G. G.</i> DATE 4/17/69 ETD FOR COMMANDER, NAVFAC		REVIEWED BY ROICC <i>W. H. H. H. H.</i> DATE 4/18/69		SYMBOL DESCRIPTION REVISIONS		DATE APPROVED	
CODE I.D. NO. 80091		DRAWING SIZE: D		CONST. CONT. NO. N62477- 86-C-0103		SPEC. 2I-86-0103		NAVFAC DRAWING NO. 3050606		SHEET 20 OF 56		S-12	



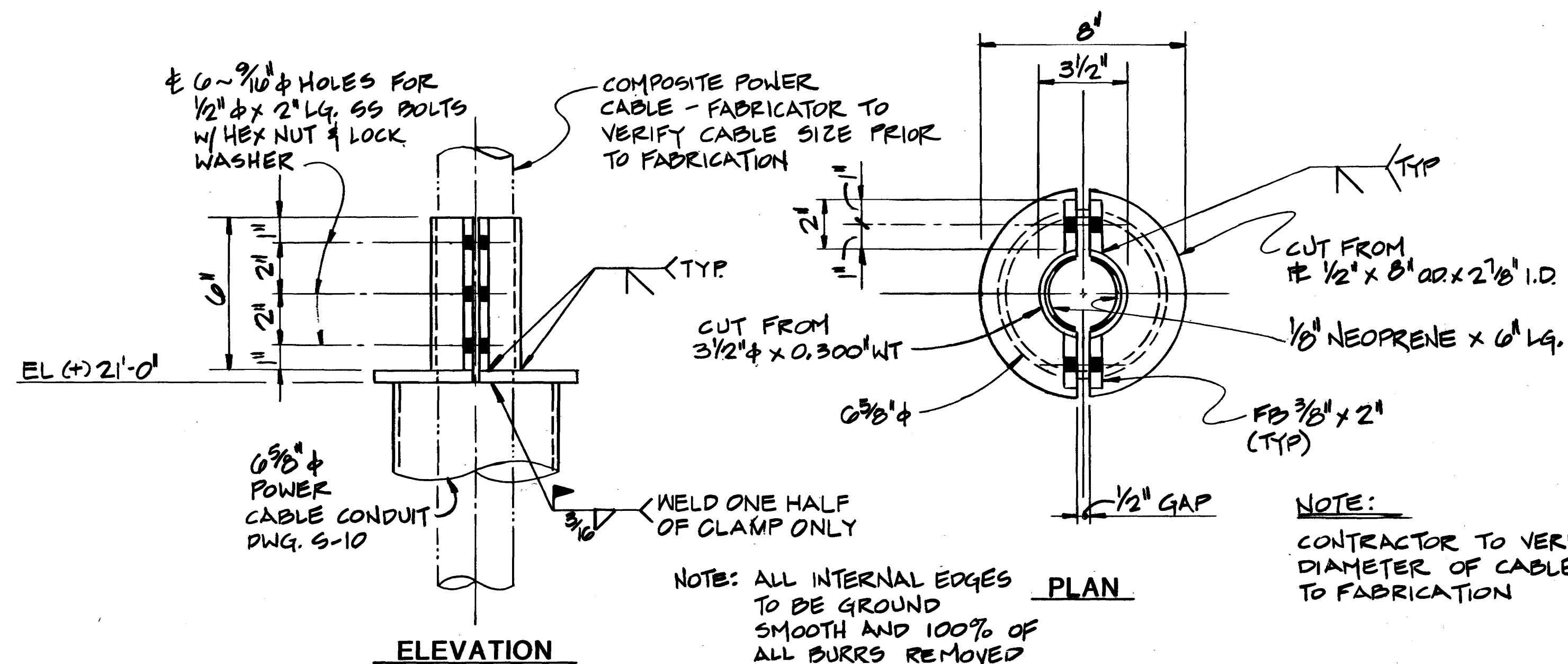
PLATFORM SIGNAGE DETAILS

REFER TO DWG. S-12 FOR LOCATIONS

SCALE 3/4" = 1'-0"



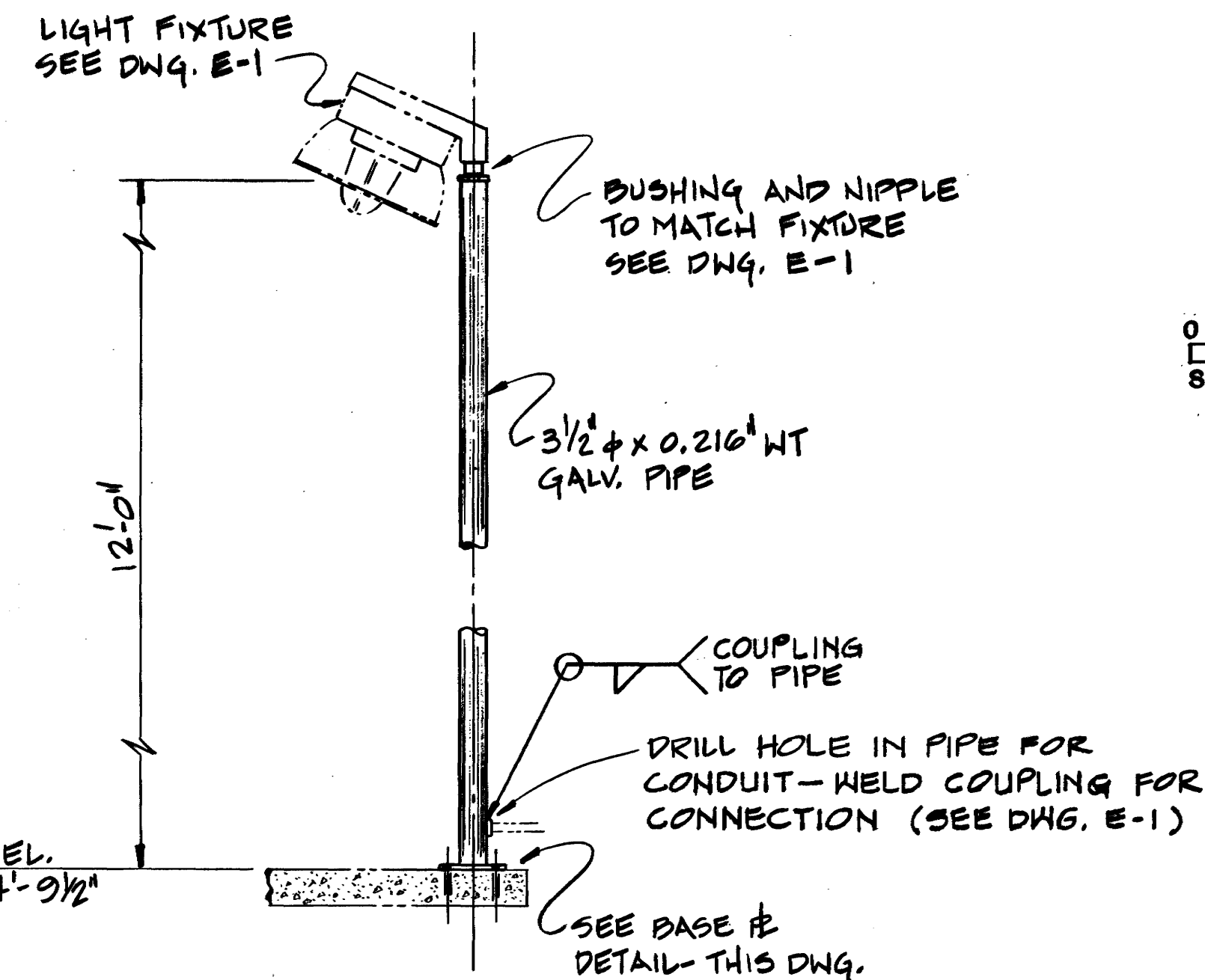
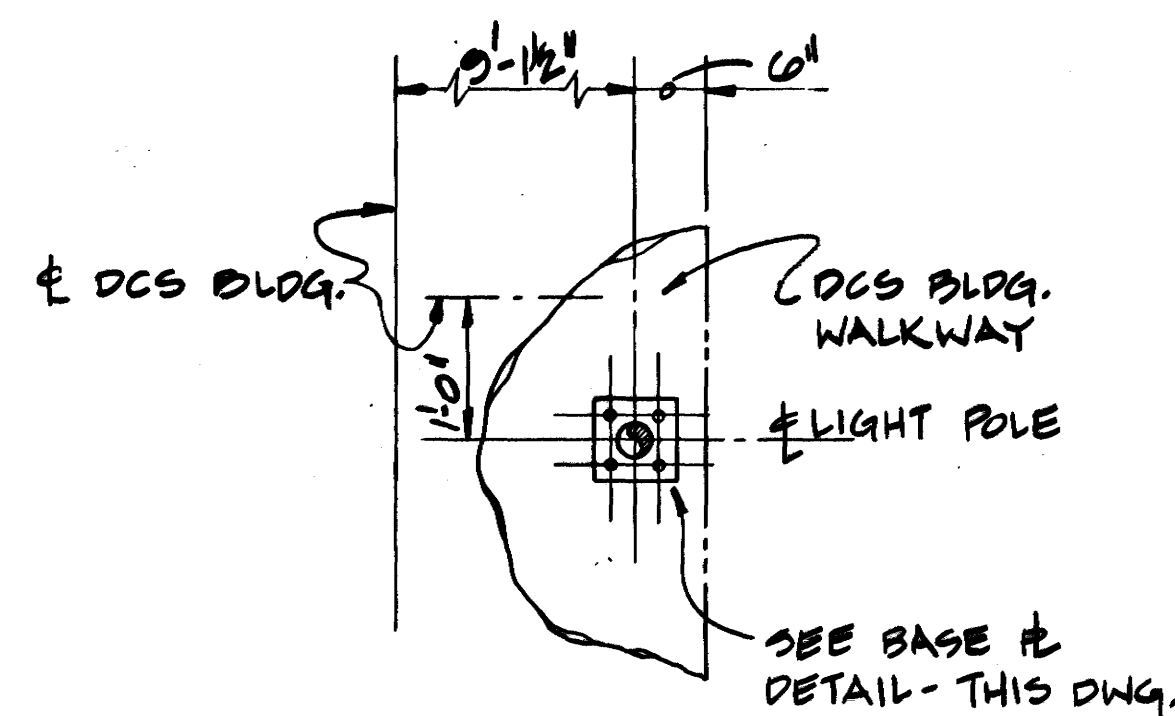
DETAIL 1
HALF SCALE



POWER CABLE SUPPORT DETAIL

REFER TO DWG S-10 FOR LOCATION

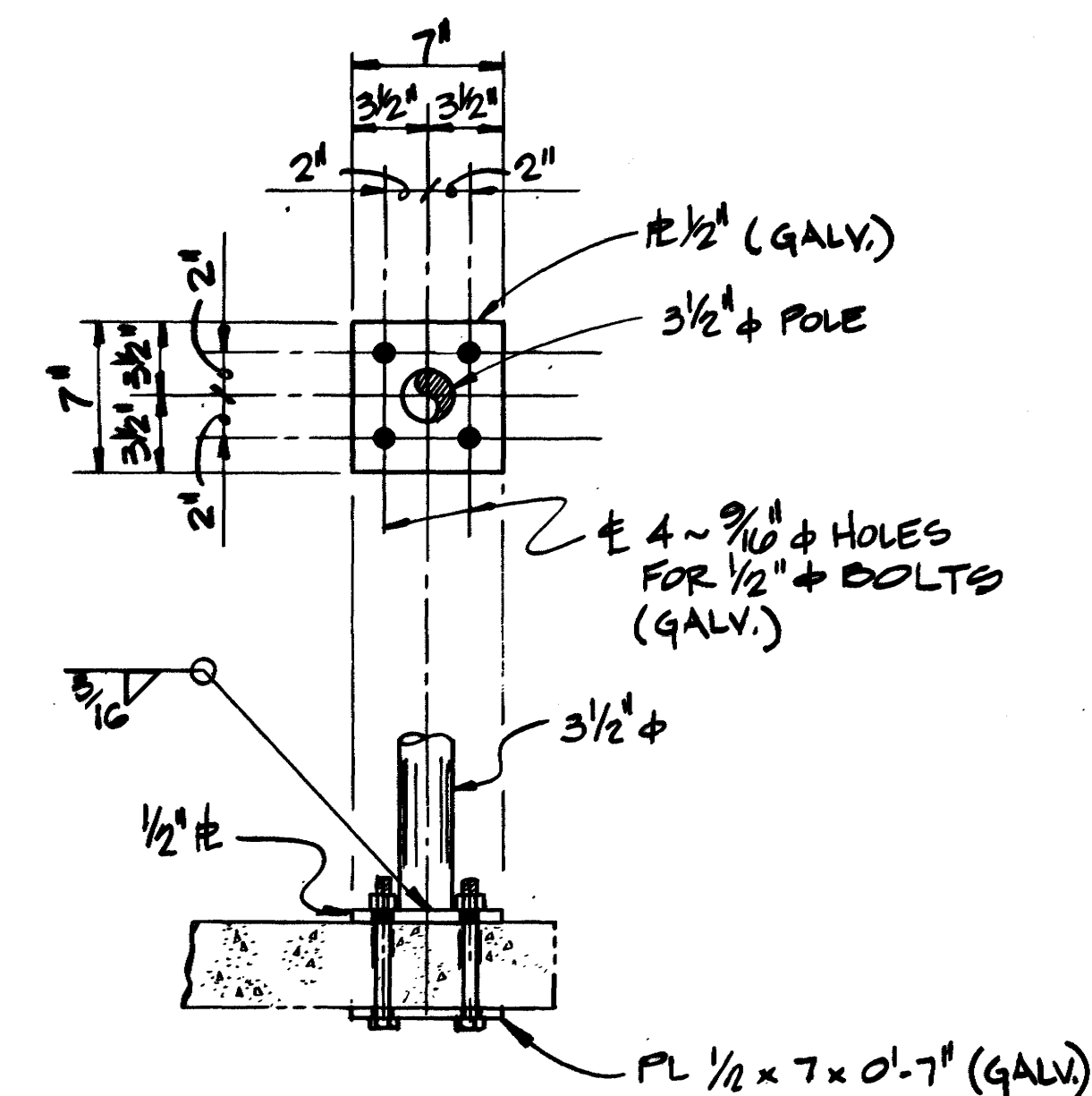
SCALE 3" = 1'-0"



ELEVATION

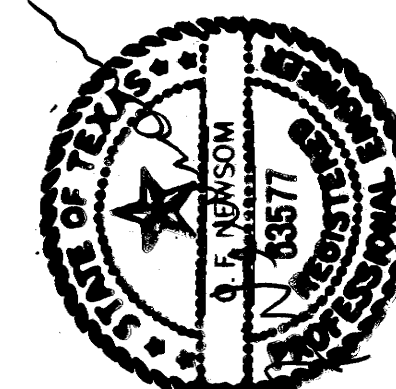
LIGHT POLE DETAIL

SCALE 3/4" = 1'-0"



BASE PLATE DETAIL

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



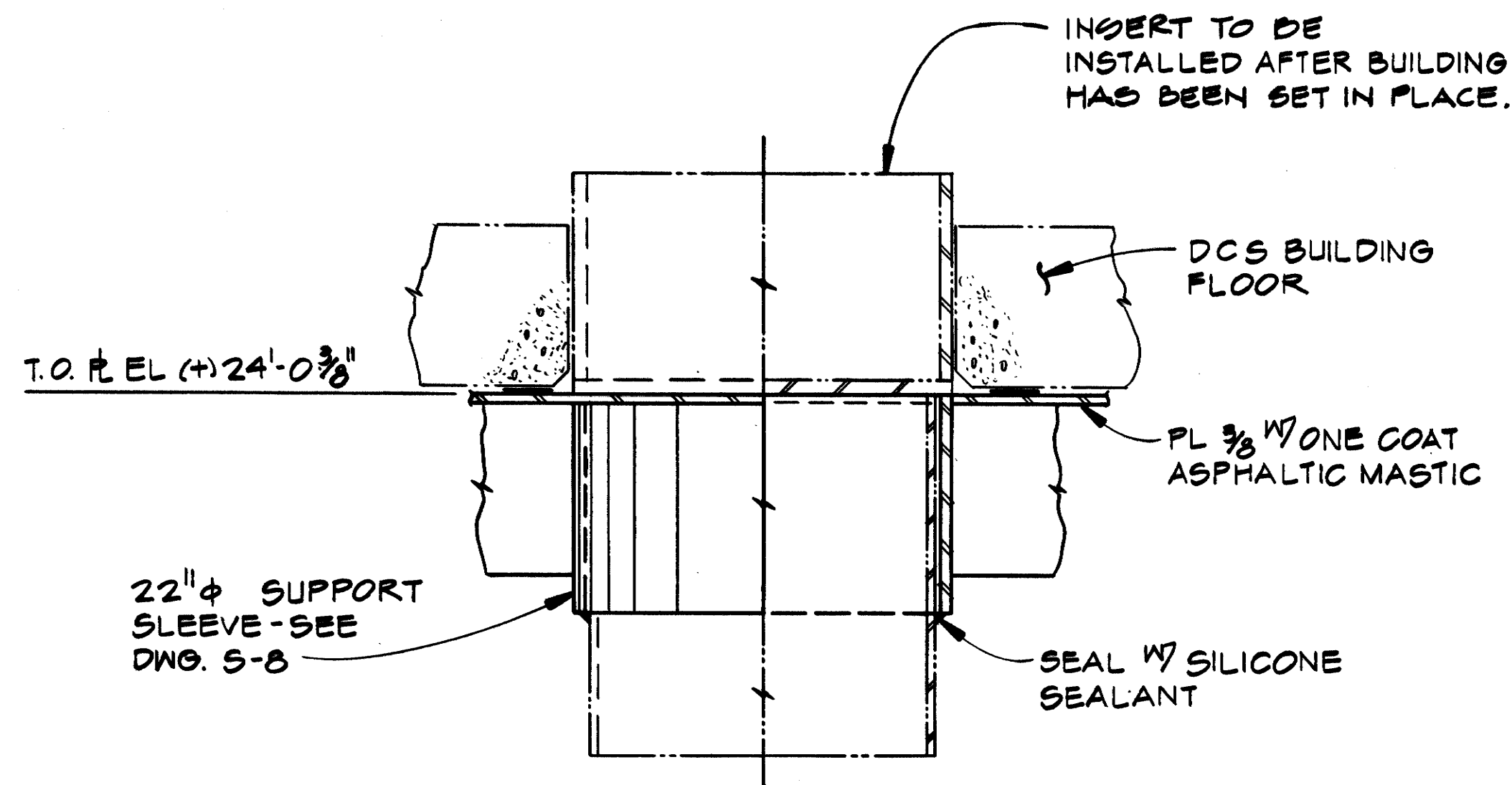
DEPARTMENT OF THE NAVY
CHESAPEAKE DIVISION
NEW LONDON, CT.
MAGNETIC SILENCING FACILITY
DCS PLATFORM
MISCELLANEOUS DETAILS

CODE I.D. NO. 80091
DRAWING SIZE: D
CONST. CONT. NO. N62477-86-C-0103
SPEC. 21-86-0103
NAVFAC DRAWING NO. 3050607
SHEET 21 OF 56

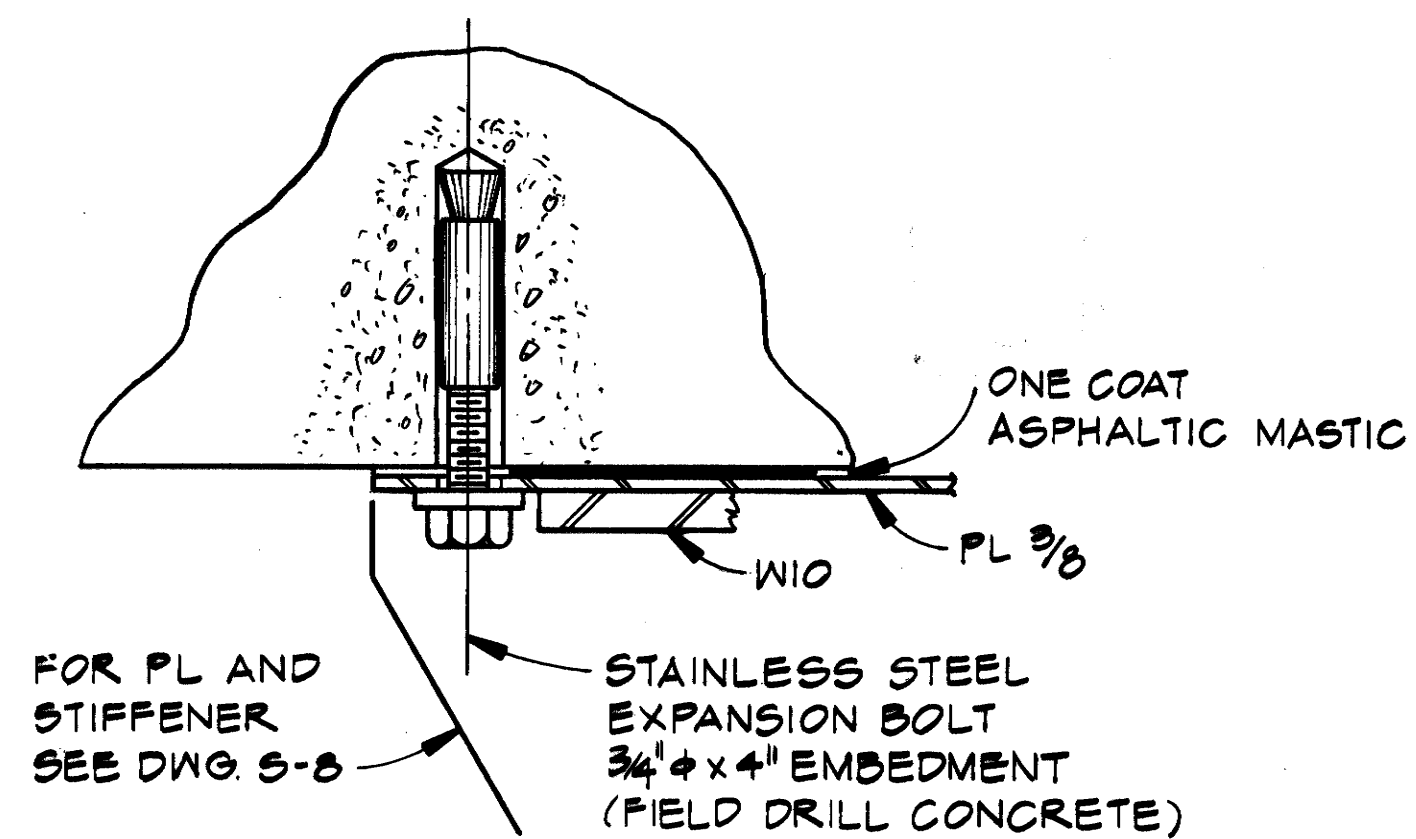
"WARNING: DRAWING MAY BECOME DISTORTED DURING REDUCTION OR OTHER REPRODUCTION PROCESS. USER IS CAUTIONED AGAINST SCALING."

S-13

IF SHEET IS LESS THAN 34"x22" USE GRAPHIC SCALE.



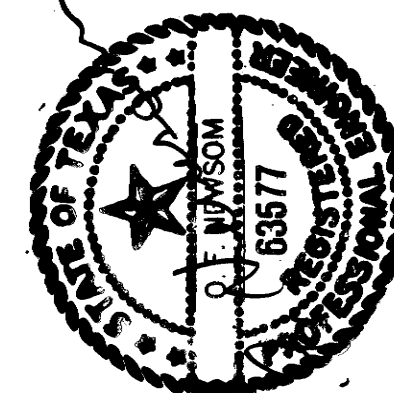
SECTION A
SCALE 1 1/2" 1'-0" S8 S14



SECTION B
NOT TO SCALE S8 S14

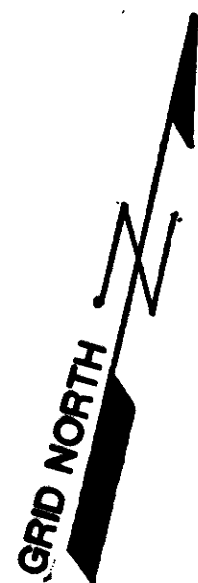
"WARNING: DRAWING MAY BECOME DISTORTED
DURING REDUCTION OR OTHER REPRODUCTION
PROCESS. USER IS CAUTIONED AGAINST SCALING."

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



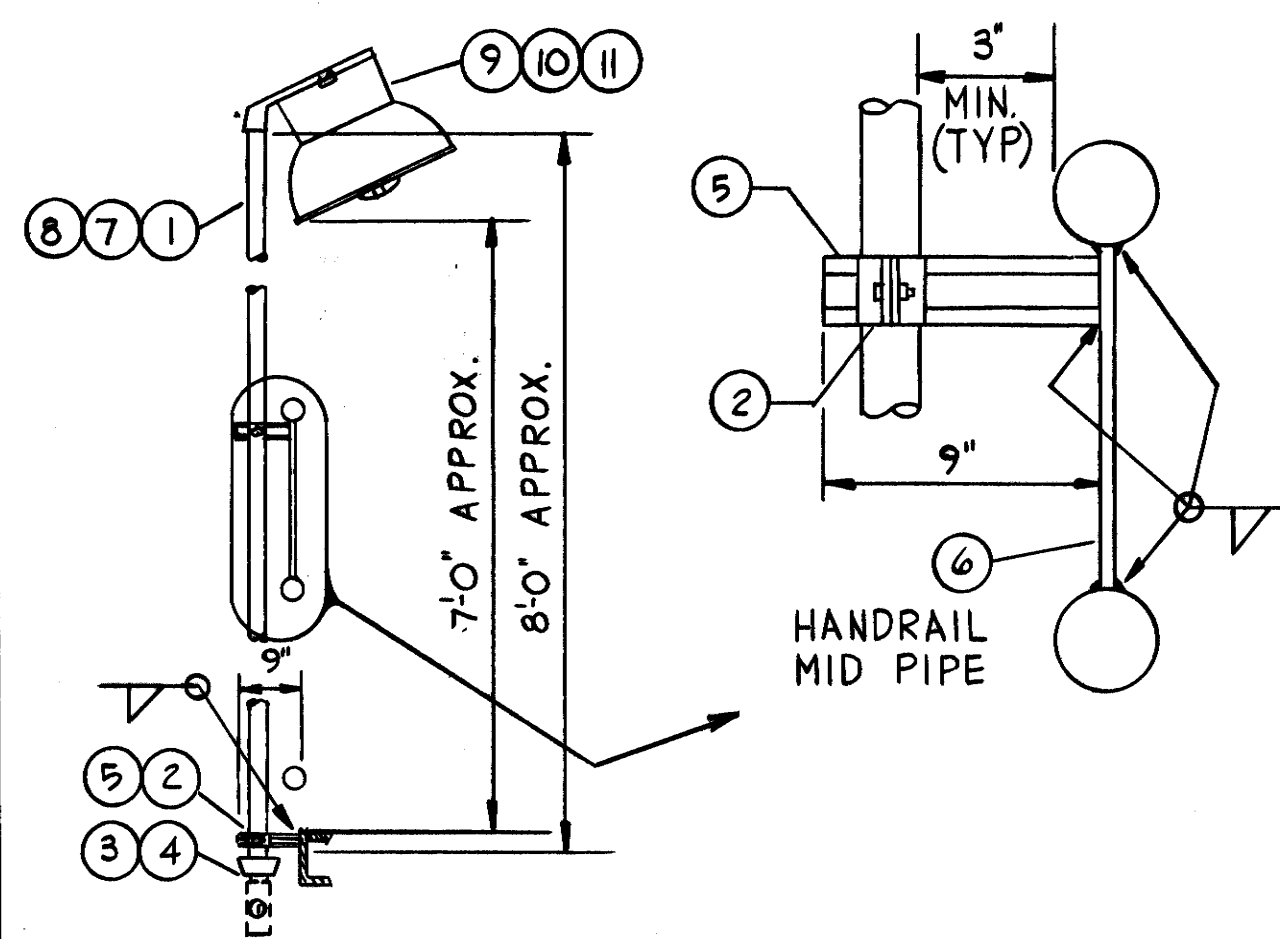
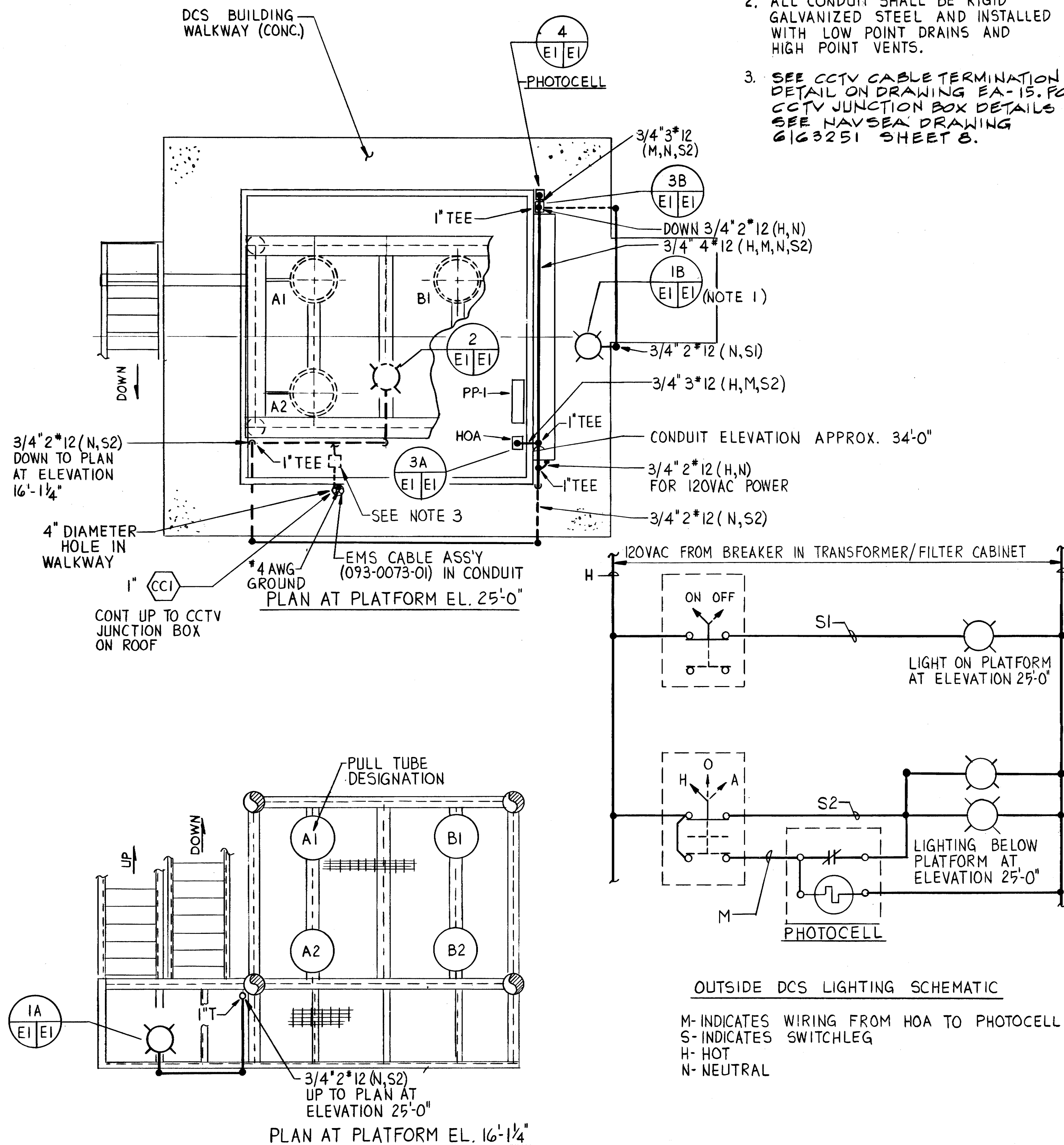
CHESAPEAKE DIVISION BIRMINGHAM, AL		MAGNETIC SILENCING FACILITY NEW LONDON, CT.		DCS PLATFORM MISCELLANEOUS DETAILS	
DEPARTMENT OF THE NAVY	NAVY FACILITIES ENGINEERING COMMAND	NAVY FACILITIES ENGINEERING COMMAND	NAVY FACILITIES ENGINEERING COMMAND	NAVY FACILITIES ENGINEERING COMMAND	NAVY FACILITIES ENGINEERING COMMAND
CODE I.D. NO. 80091	DRAWING SIZE: D	CONST. CONT. NO. N62477-86-C-0103	SPEC. 2I-86-0103	NAVFAC DRAWING NO. 3050608	SHEET 22 OF 56
S-14					

FLUOR ENGINEERS, INC. HOUSTON DIVISION DESIGNED BY CHECKED BY DATE FUNCTIONAL APPROVAL DATE APPROVED EFD FOR COMMANDER, NAVFAC	FPD-10 FPD-1C E.I.C. 2/22/89 SATISFACTORY TO NAVSEA	FPD-1P 2/24/89 FPD-1F FPD-1H DATE	REVIEWED BY ROICC DATE 4/13/89 EFD FOR COMMANDER, NAVFAC	DATE 4/13/89	DATE APPROVED
DESCRIPTION			REVISIONS		



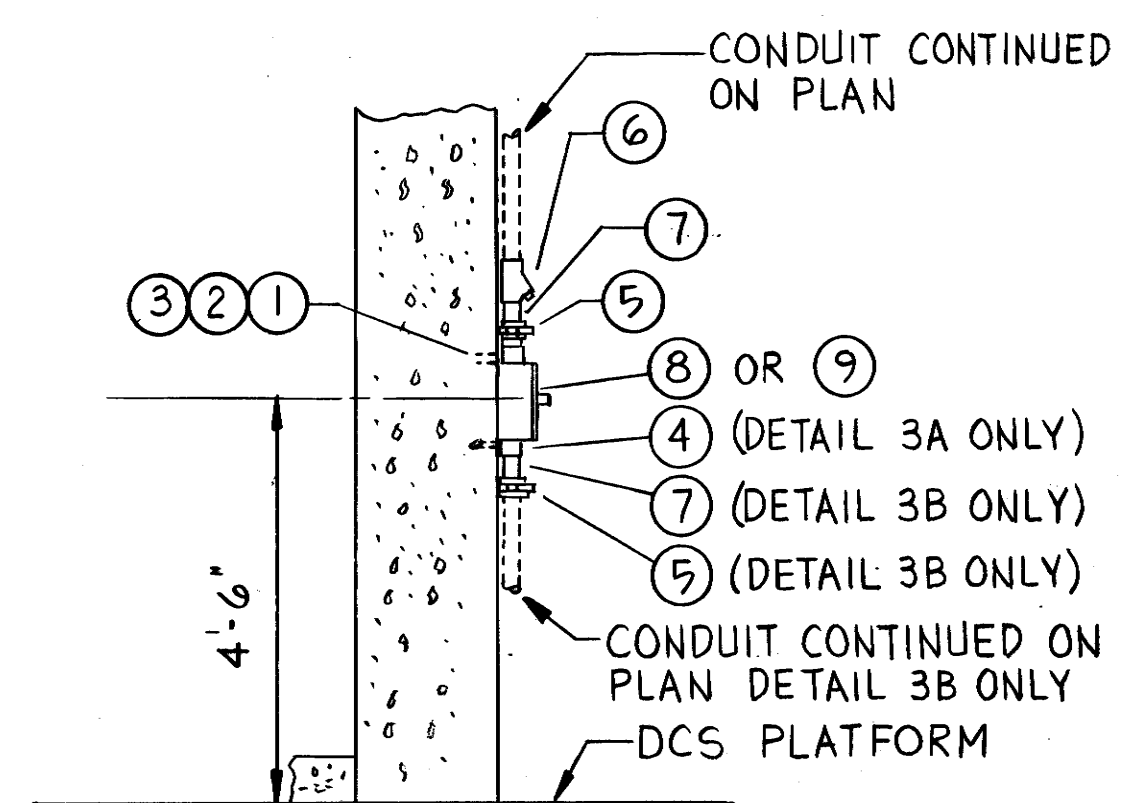
NOTES

1. THIS FIXTURE TO BE MOUNTED 14'-0" ABOVE PLATFORM AT ELEVATION 25'-0" ON STRUCTURAL SUPPORT. FOR SUPPORT DETAIL SEE DRAWING S-10.
2. ALL CONDUIT SHALL BE RIGID GALVANIZED STEEL AND INSTALLED WITH LOW POINT DRAINS AND HIGH POINT VENTS.
3. SEE CCTV CABLE TERMINATION DETAIL ON DRAWING EA-15. FOR CCTV JUNCTION BOX DETAILS SEE NAVSEA DRAWING 6163251 SHEET 8.



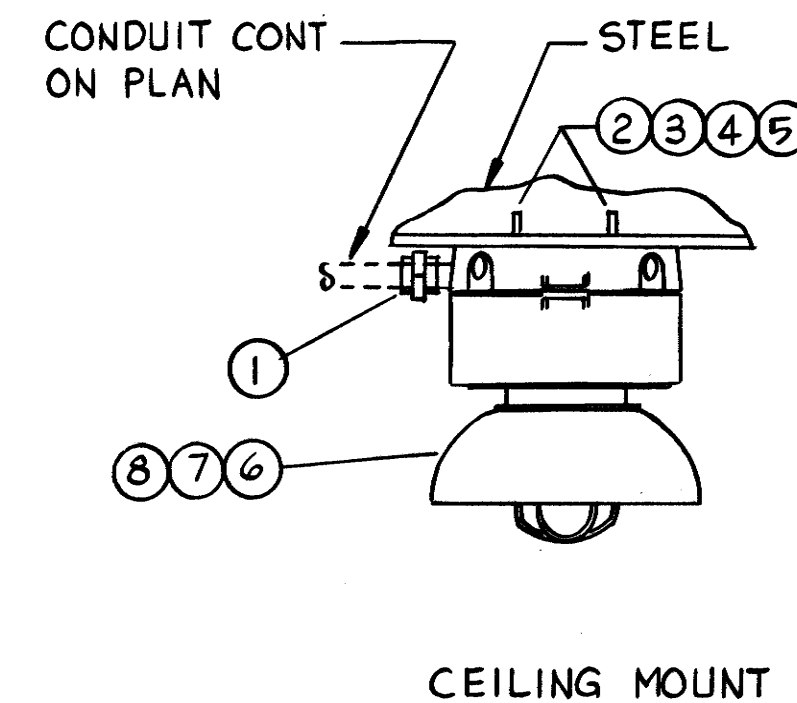
ITEM	DESCRIPTION	QUANTITY	
		1A	1B
1	CONDUIT, 1 1/2", RSG	10'-0"	NOTE 1
2	STRUT, CONDUIT CLAMP, 1-1/2", GALV.	2	—
3	COUPLING, REDUCING, 1-1/2" X 3/4"	1	—
4	NIPPLE, 3/4", GALV.	1	1
5	STRUT, CHANNEL	1'-6"	—
6	STEEL PLATE, GALV, 1/4" X 4" X 1'-4-1/4"	1	—
7	WIRE, #12, CU, TYPE THWN, BLACK	12'-0"	18'-0"
8	WIRE, #12, CU, TYPE THWN, WHITE	12'-0"	18'-0"
9	FIXTURE, 120V, HPS, 25" ANGLE STANCHION MOUNT, CAST	1	1
—	COPPER-FREE ALUMINUM WITH PREMIUM EPOXY	—	—
—	POWDER FINISH WITH MEDIUM BASE 50W LAMP	—	—
10	DOME REFLECTOR, FIBERGLASS REINFORCED	1	1
—	POLYESTER	—	—
11	GUARD	1	1

DETAIL 1
E1/E1



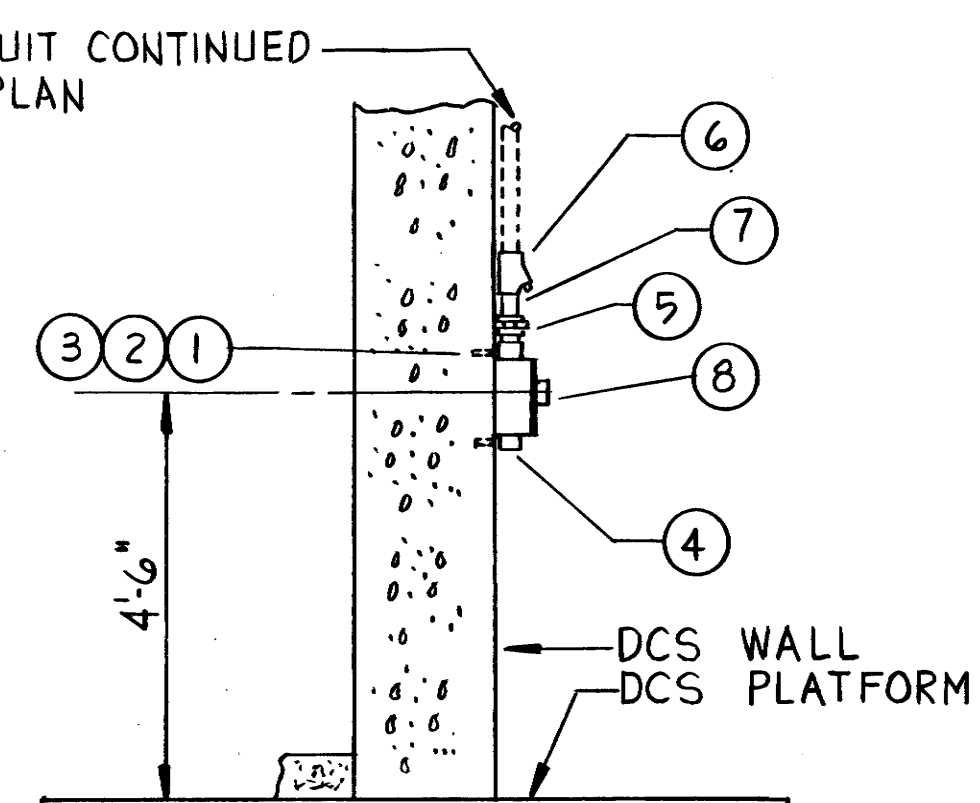
ITEM	DESCRIPTION	QUANTITY	
		3A	3B
1	BOLT, HEX, 1/4"-20 X 1-1/2", BRASS	4	4
2	FLATWASHER, 1/4", BRASS	4	4
3	EXPANSION ANCHOR, 1/4"	4	4
4	PLUG 3/4"	1	—
5	UNION MALE 3/4"	1	2
6	DRAIN SEAL 3/4"	—	1
7	NIPPLE, SHORT, GALV.	1	2
8	SWITCH, 2 POSITION, 2 CIRCUIT, 120V, 20A	—	1
—	MOUNTED IN CAST DEVICE BOX.	—	—
9	SWITCH, 3 POSITION, 2 CIRCUIT, 120V, 20A	1	—
—	MOUNTED IN CAST DEVICE BOX	—	—

DETAIL 3
E1/E1



ITEM	DESCRIPTION	QUANTITY	
		1A	1B
1	UNION, 3/4", MALE	1	—
2	BOLT, MACH, 1/4"-20 X 1-1/2", BRASS	4	—
3	LOCKWASHER, 1/4", BRASS	4	—
4	FLATWASHER, 1/4", BRASS	4	—
5	NUT, HEX, 1/4"-20, BRASS	4	—
6	FIXTURE, HPS, CEILING MOUNT, CAST COPPER	1	—
—	FREE ALUMINUM WITH PREMIUM EPOXY	—	—
—	POWDER FINISH WITH MEDIUM BASE 50W	—	—
—	LAMP	—	—
7	DOME REFLECTOR, FIBERGLASS REINFORCED	1	—
—	POLYESTER	—	—
8	GUARD	1	—

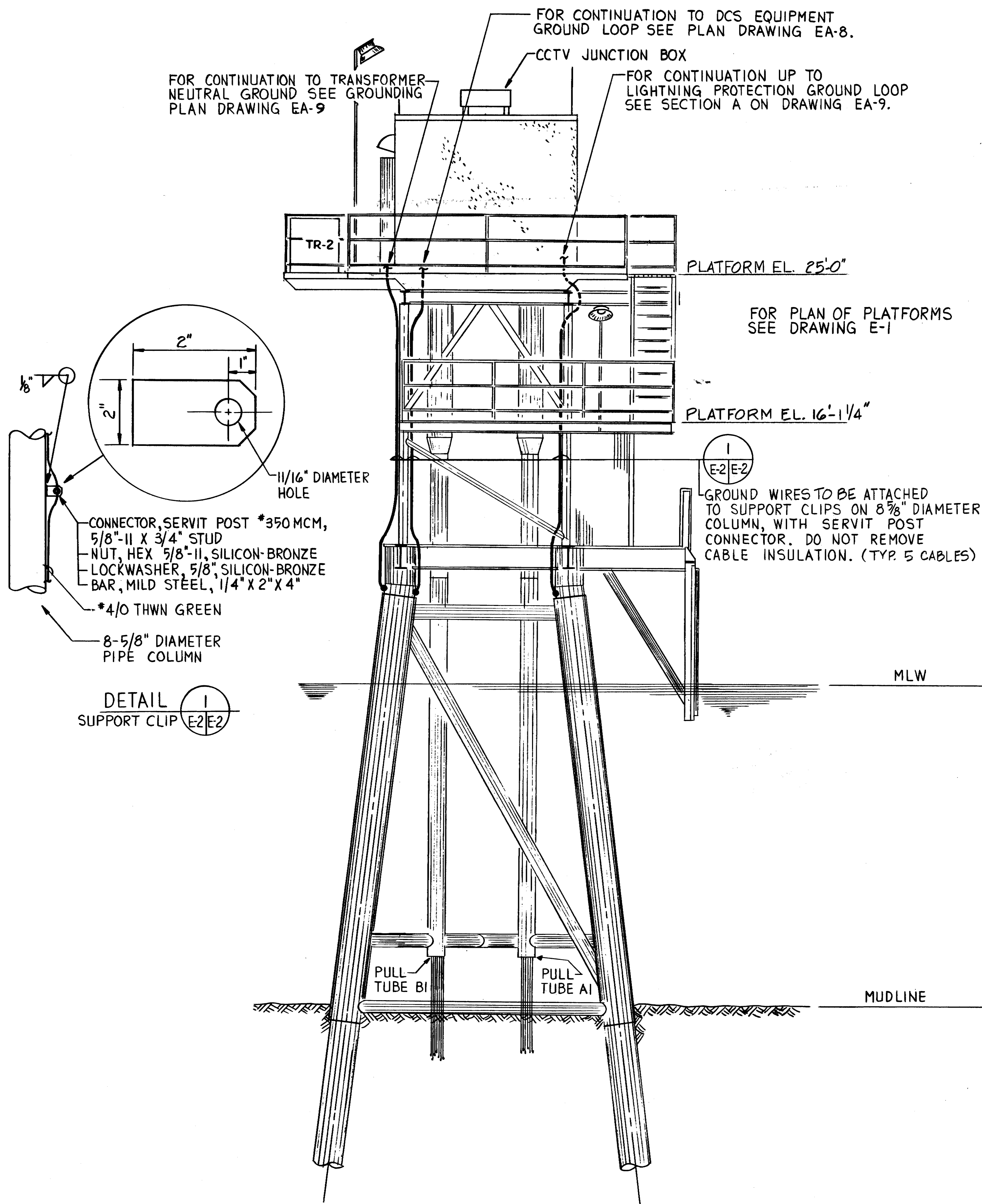
DETAIL 4
E1/E1



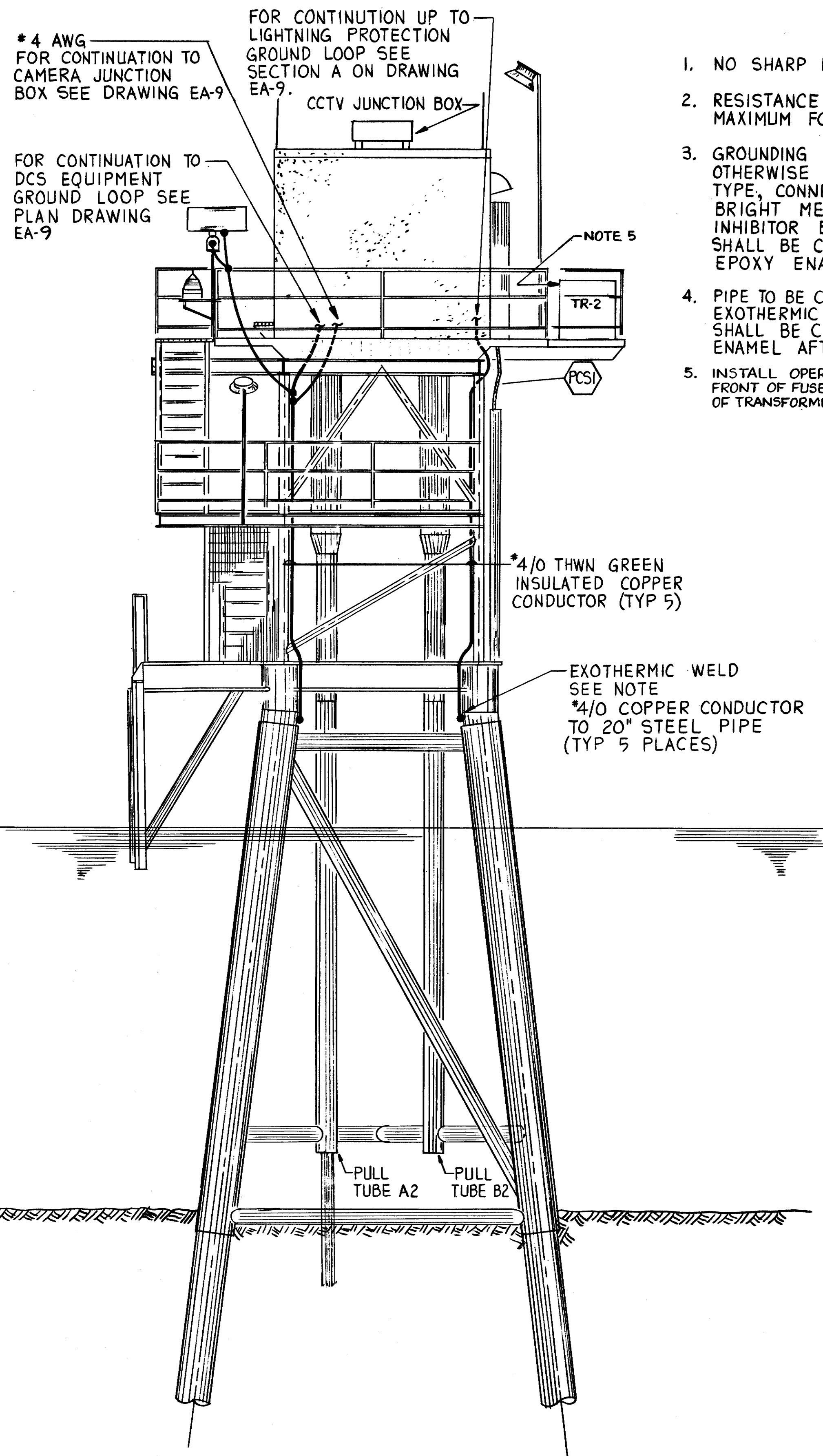
ITEM	DESCRIPTION	QUANTITY	
		3A	3B
1	BOLT, HEX, 1/4"-20 X 1-1/2", BRASS	4	4
2	FLATWASHER, 1/4", BRASS	4	4
3	EXPANSION ANCHOR, 1/4"	4	4
4	PLUG 3/4"	1	—
5	UNION MALE 3/4"	1	2
6	DRAIN SEAL 3/4"	—	1
7	NIPPLE, SHORT, GALV.	1	2
8	PHOTOCELL, 120V, 1000W, FTC ON-OFF	1	—
—	RANGE 3-12, MOUNTED IN CAST DEVICE BOX	—	—

DETAIL 5
E1/E1

FLUOR ENGINEERS, INC. HOUSTON DIVISION DESIGN BY: [Signature] CHECKED BY: [Signature] DATE: 4/12/75 APPROVED BY: [Signature] DATE: 4/12/75 FOR CONSTRUCTION	CHESAPEAKE DIVISION MAGNETIC SILENCING FACILITY NEW LONDON, CT. DCS PLATFORM LIGHTING CODE I.D. NO. 80091 DRAWING SIZE: D CONST. CONT. NO. N62477-86-C-0103 SPEC. 21-86-0103 NAVFAC DRAWING NO. 3050610 SHEET 24 OF 56 E-1	REVISIONS DATE DESCRIPTION SYMBOL APPROVED DATE
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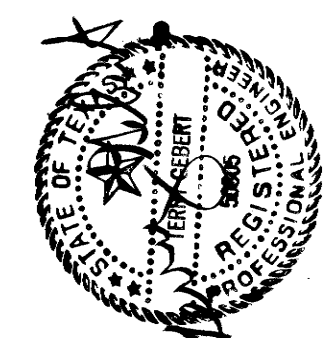
SIDE ELEVATION
LOOKING SOUTH



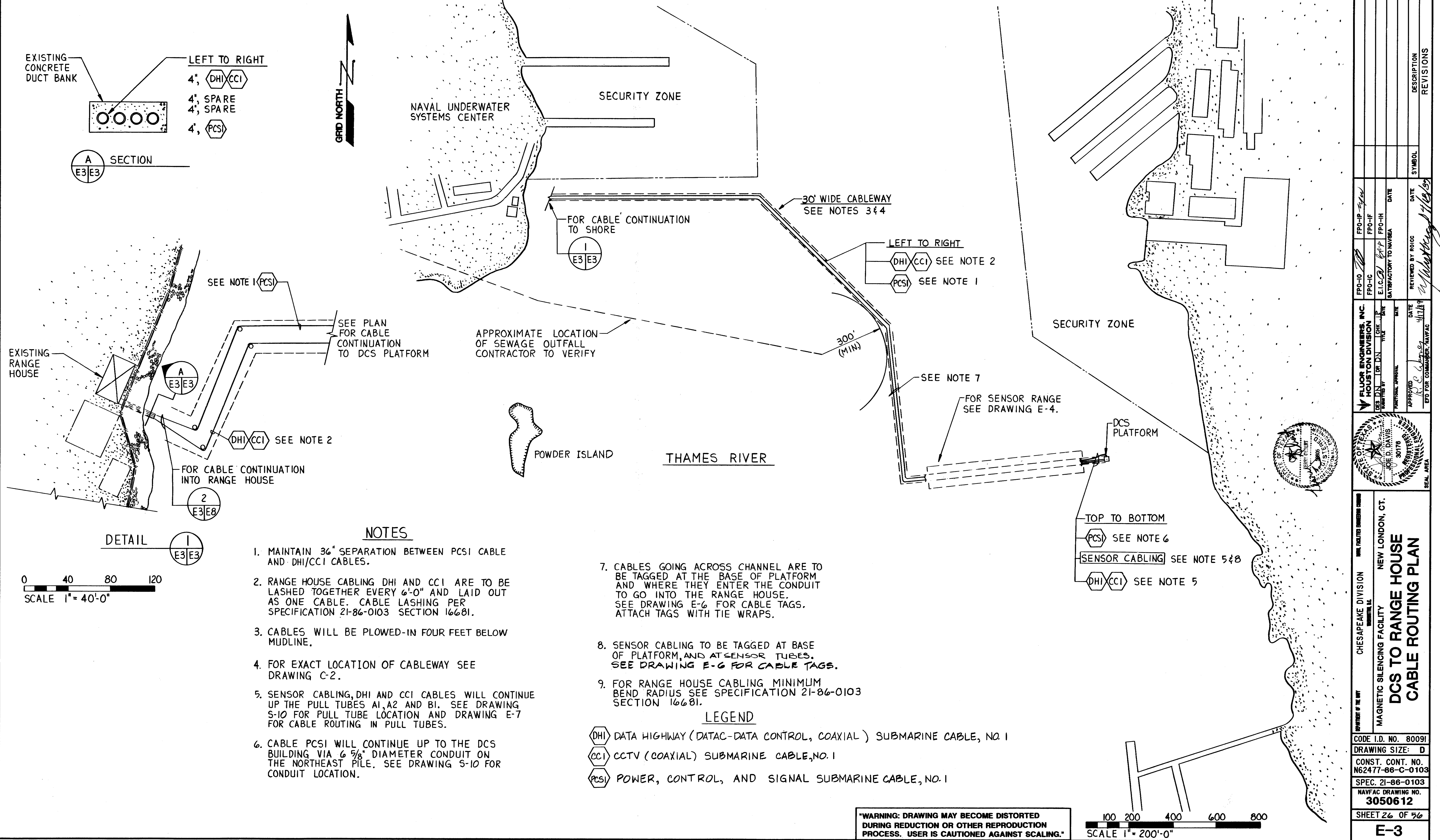
SIDE ELEVATION
LOOKING NORTH

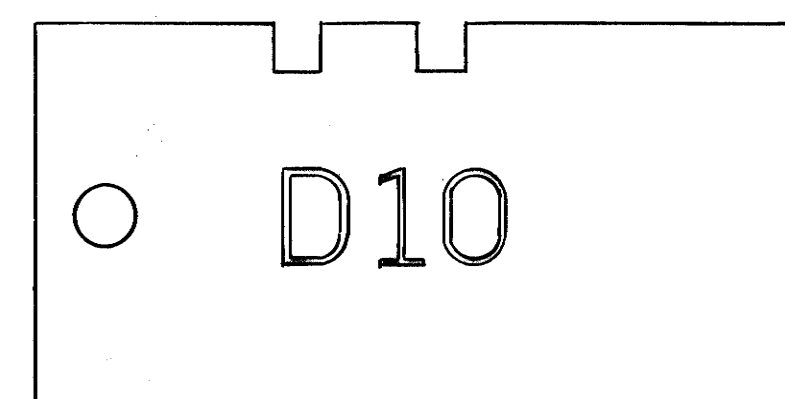
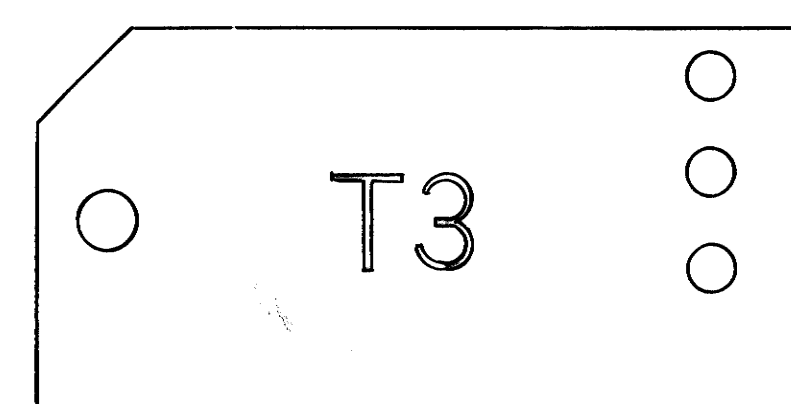
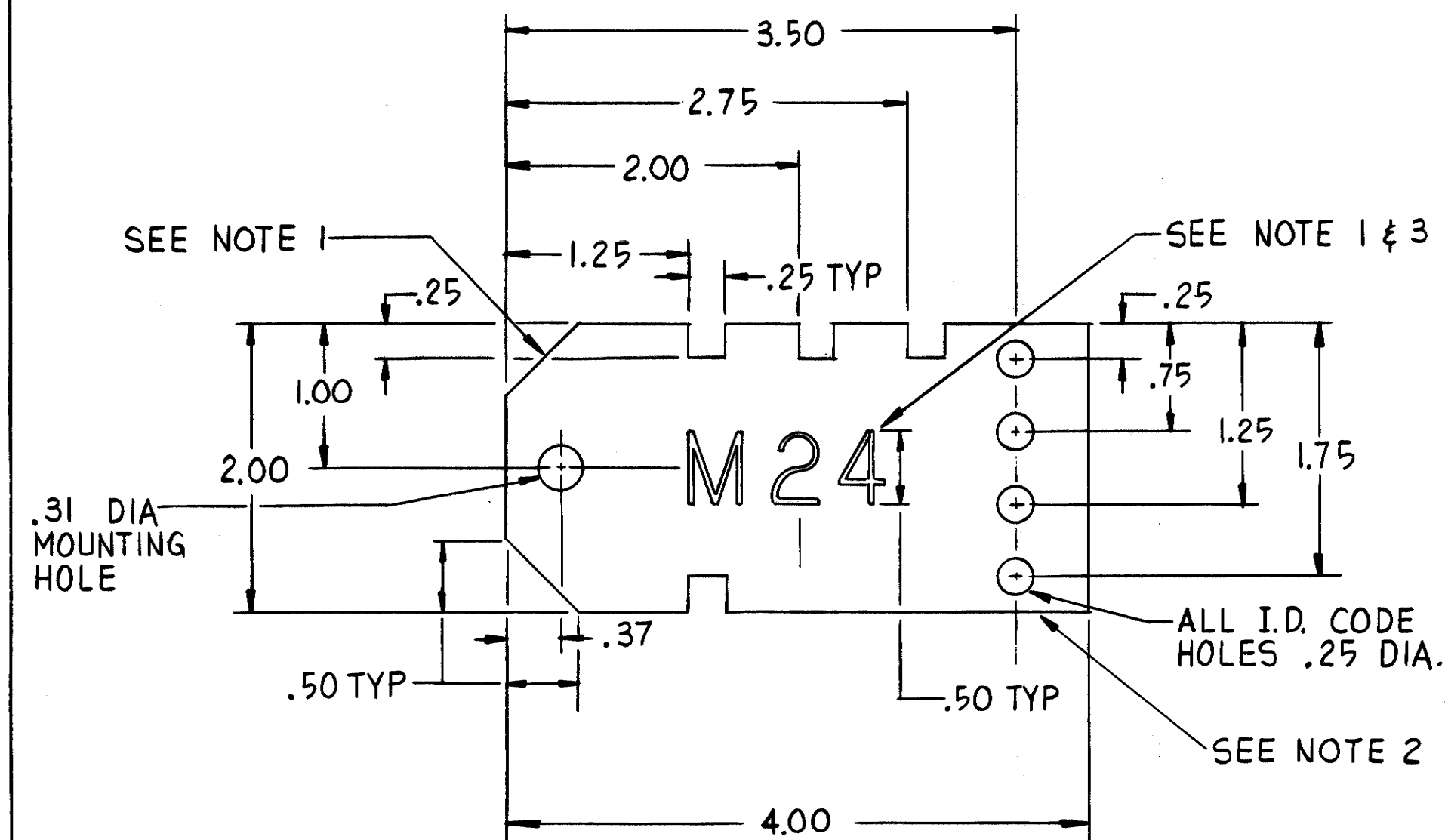
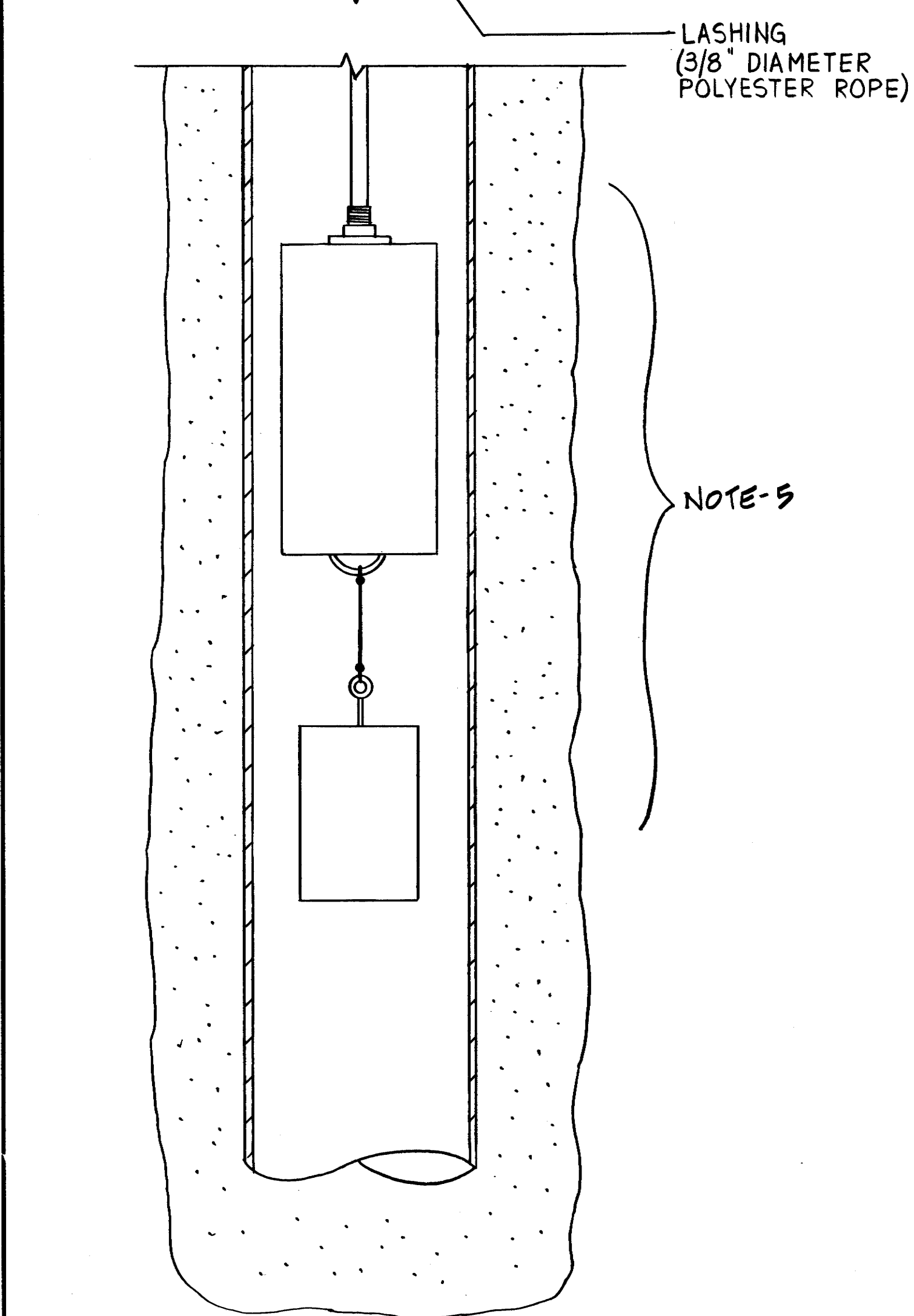
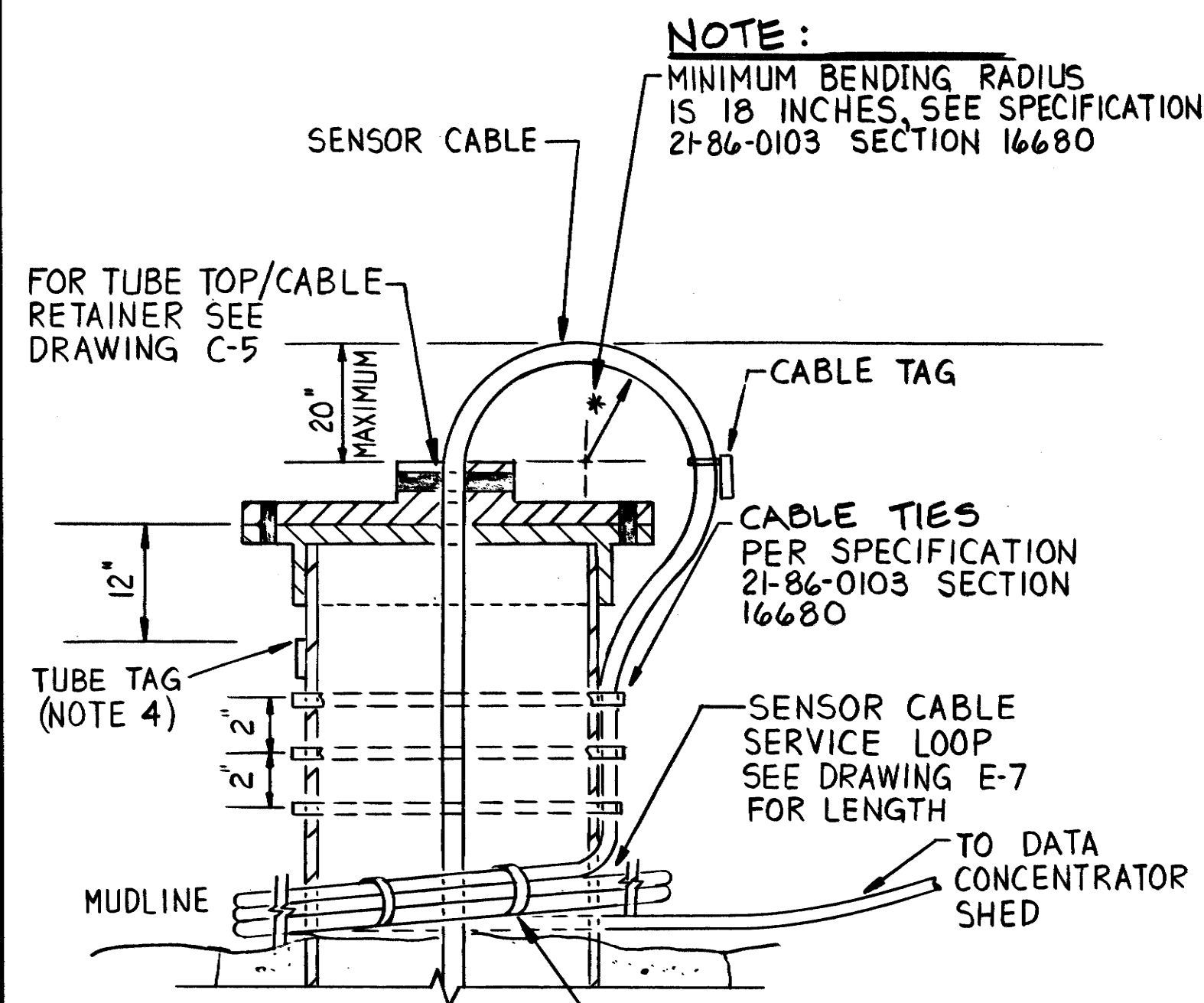
NOTES

1. NO SHARP BENDS IN GROUNDING CONDUCTORS.
2. RESISTANCE TO GROUND SHALL BE 5 OHMS MAXIMUM FOR ELECTRICAL EQUIPMENT.
3. GROUNDING CONNECTIONS UNLESS SHOWN OTHERWISE SHALL BE OF THE MECHANICAL TYPE, CONNECTIONS SHALL BE CLEANED TO BRIGHT METAL AND COATED WITH CORROSION INHIBITOR BEFORE MAKE-UP. CONNECTIONS SHALL BE CLEANED AND SPRAYED WITH EPOXY ENAMEL AFTER MAKE-UP.
4. PIPE TO BE CLEANED TO BRIGHT METAL BEFORE EXOTHERMIC WELD APPLIED. CONNECTION SHALL BE CLEANED AND SPRAYED WITH EPOXY ENAMEL AFTER MAKE-UP.
5. INSTALL OPERATING INSTRUCTION WARNING SIGN ON FRONT OF FUSED DISCONNECT SWITCH COMPARTMENT OF TRANSFORMER TR-2.

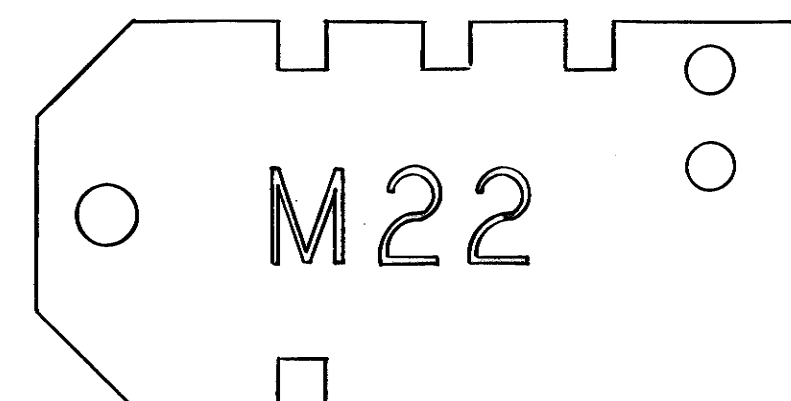


CHESAPEAKE DIVISION		MAGNETIC SILENCING FACILITY		NEW LONDON, CT.	
MAGNETIC SILENCING FACILITY		DCS PLATFORM GROUNDING SYSTEM		E-2	
CODE I.D. NO. 80091	DRAWING SIZE: D	CONST. CONT. NO. N62477-86-C-0103	SPEC. 21-86-0103	NAVFAC DRAWING NO. 3050611	SHEET 25 OF 56
"WARNING: DRAWING MAY BECOME DISTORTED DURING REDUCTION OR OTHER REPRODUCTION PROCESS. USER IS CAUTIONED AGAINST SCALING."		0 1 2 3 4 8 12 16		SCALE: 1" = 4'	

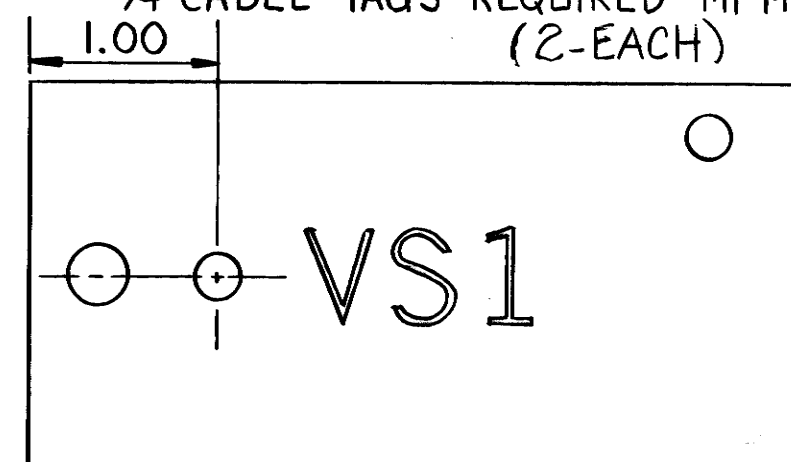




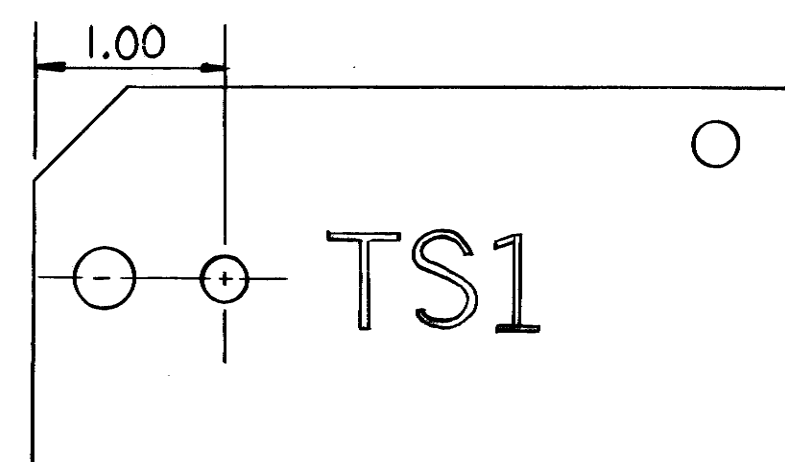
TYPICAL D-TUBE & CABLE TAG
19 TUBE TAGS REQUIRED DI-D19
38 CABLE TAGS REQUIRED DI-D19 (2 EACH)



TYPICAL M-TUBE & CABLE TAG
27 TUBE TAGS REQUIRED MI-M27
54 CABLE TAGS REQUIRED MI-M27
1.00 (2-EACH)



TYPICAL SPARE VERTICAL CABLE TAG
12 CABLE TAGS REQUIRED VSI-VS6
(2 EACH)



TYPICAL SPARE TRIAXIAL CABLE TAG
2 CABLE TAGS REQUIRED TSI (2 EACH)

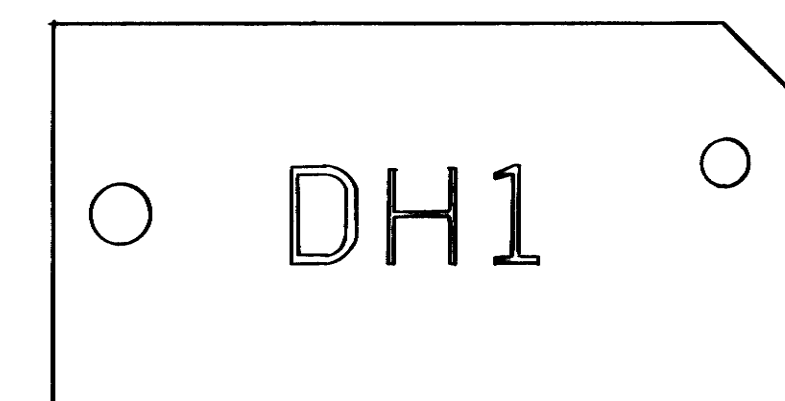
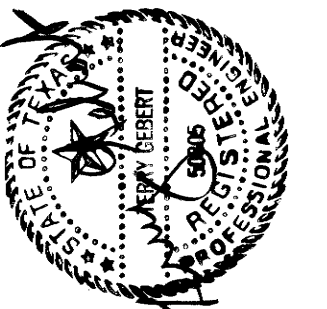
TUBE & CABLE IDENTIFICATION TAGS
ACTUAL SIZE SHOWN

NOTES

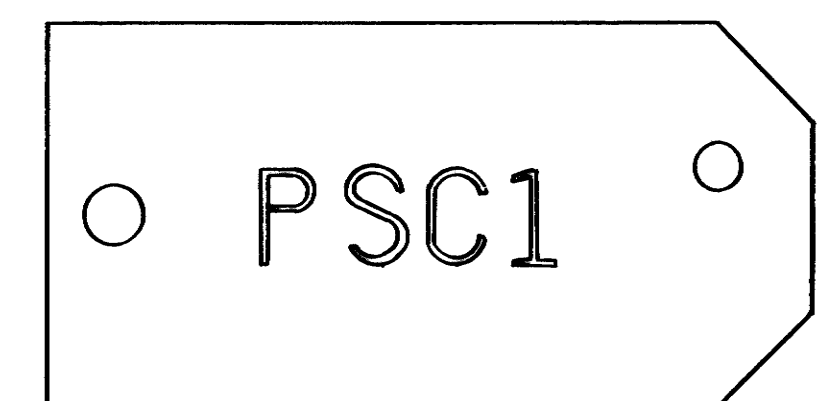
1. M-TUBE AND CABLE TAGS SHALL BE CODED MI-M27 (DIMENSIONED M24 TAG SHOWN TO ILLUSTRATE ALL TAG IDENTIFICATION CODE FEATURES) WITH 45° CHAMFERS AT THE TOP AND BOTTOM LEFT CORNERS. D-TUBE AND CABLE TAGS SHALL BE CODED DI-D19 AND SHALL BE RECTANGULAR IN SHAPE. SPARE VERTICAL SENSOR CABLE TAGS SHALL ALSO BE RECTANGULAR IN SHAPE. T-TUBE AND CABLE TAGS SHALL BE CODED TI-T5 WITH A 45° CHAMFER AT THE TOP LEFT CORNER ONLY. SPARE TRIAXIAL SENSOR CABLE TAGS SHALL ALSO BE CODED WITH A 45° CHAMFER AT THE TOP LEFT CORNER.

ALL TUBE TAGS SHALL HAVE THE FOLLOWING PHYSICAL IDENTIFICATION CODE:
EACH .25 INCH BY .25 INCH NOTCH EQUALS FIVE UNITS
EACH .25 DIAMETER HOLE EQUALS ONE UNIT.
EACH TAG NUMBER PHYSICAL CODE SHALL USE THE MAXIMUM NUMBER OF NOTCHES WITH THE REMAINDER OF UNITS AS HOLES.

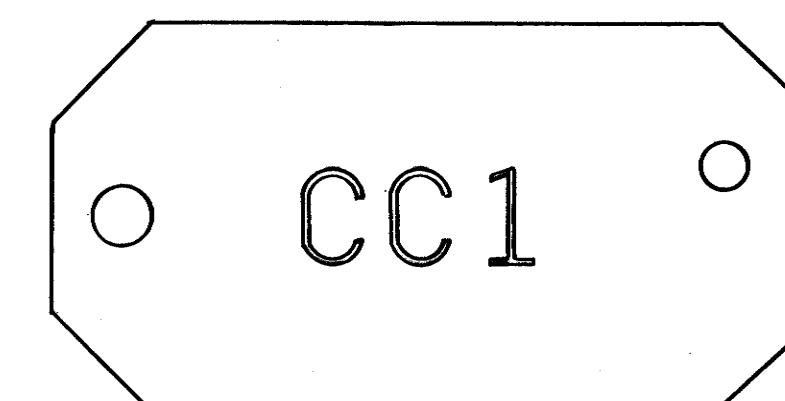
2. TUBE AND CABLE TAGS SHALL BE .1875 INCHES IN THICKNESS.
3. TUBE AND CABLE TAGS SHALL BE CONSTRUCTED OF WHITE POLYVINYL CHLORIDE (PVC) WITH CHARACTERS CARVED INTO THE SURFACE .0625 INCHES DEEP.
4. SEE TUBE TAG CONNECTION ON DRAWING C-5.
5. REFER TO DRAWING C-5 FOR SENSOR ASSEMBLY.



DATA C DATA HIWAY CABLE TAG
2 CABLE TAGS REQUIRED

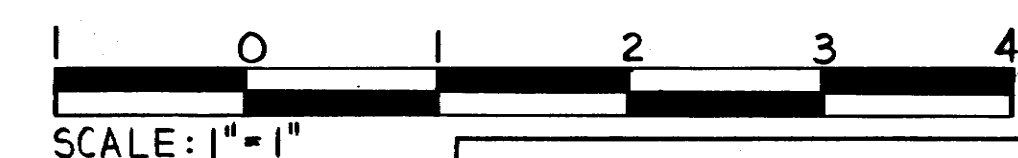


2400V COMPOSITE CABLE TAG
2 CABLE TAGS REQUIRED



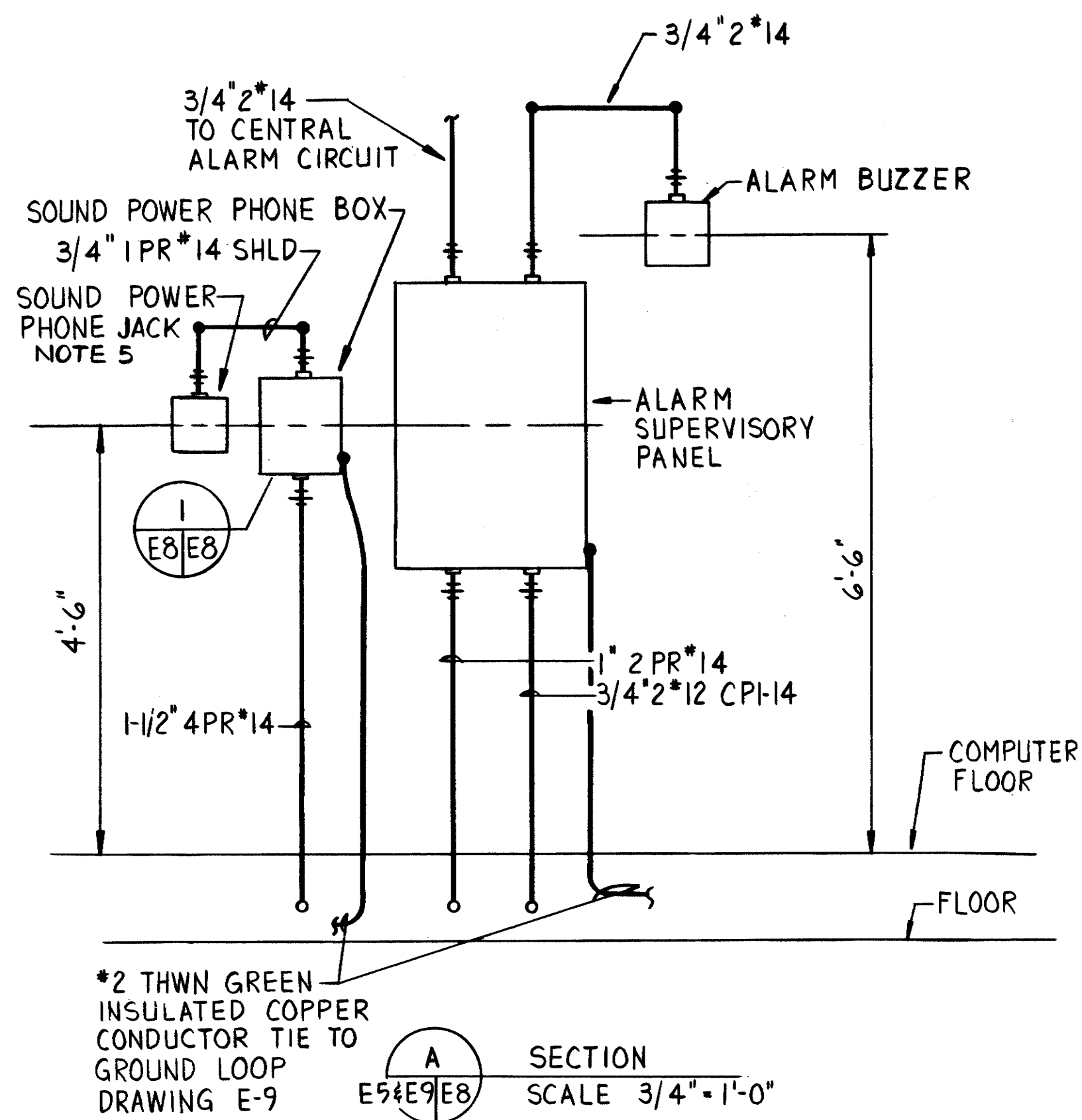
CCTV CABLE TAG
2 CABLE TAGS REQUIRED

CABLE IDENTIFICATION TAGS (CON'T)



**"WARNING: DRAWING MAY BECOME DISTORTED
DURING REDUCTION OR OTHER REPRODUCTION
PROCESS. USER IS CAUTIONED AGAINST SCALING."**

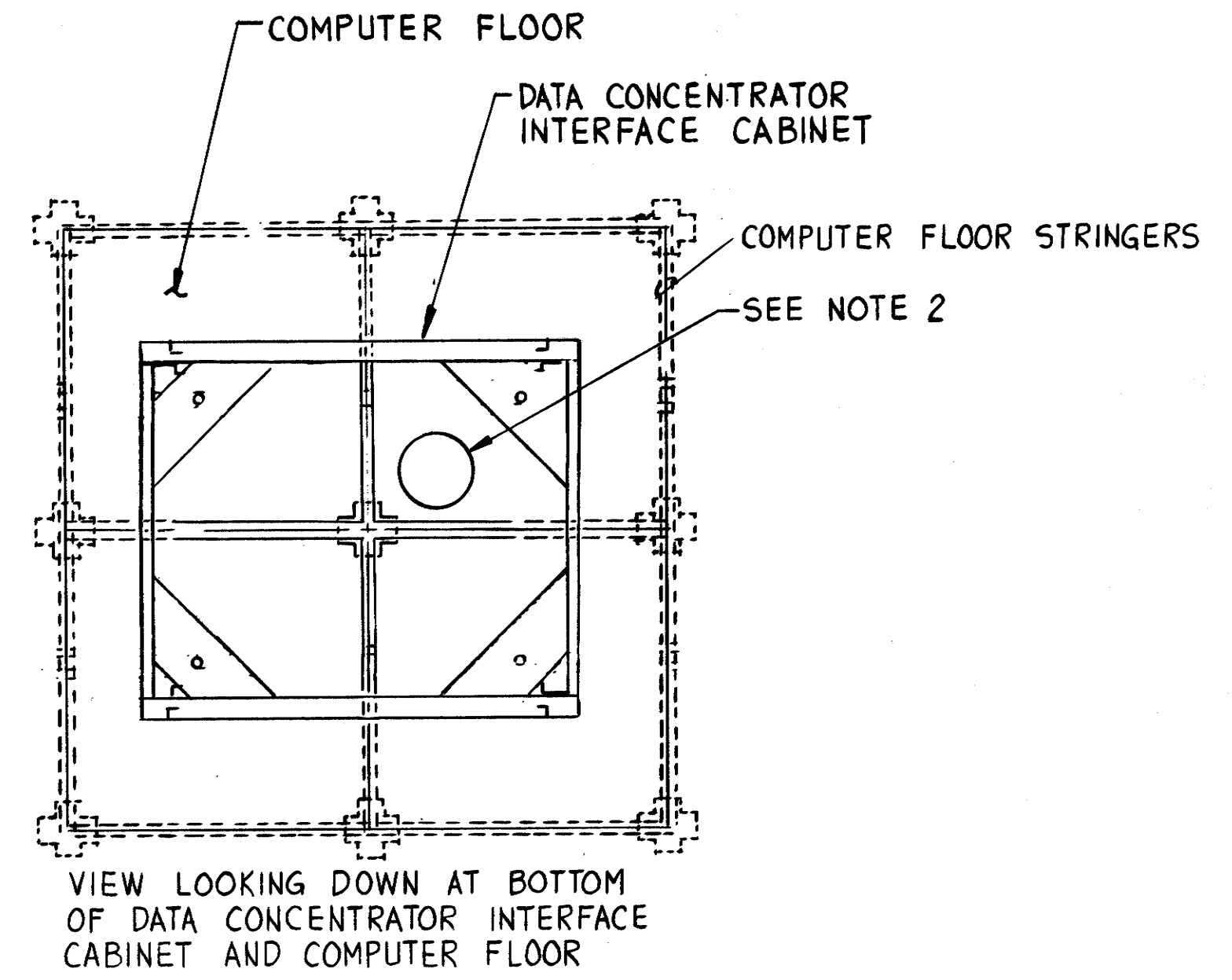
**IF SHEET IS LESS THAN
4'X22' USE GRAPHIC SCALE.**



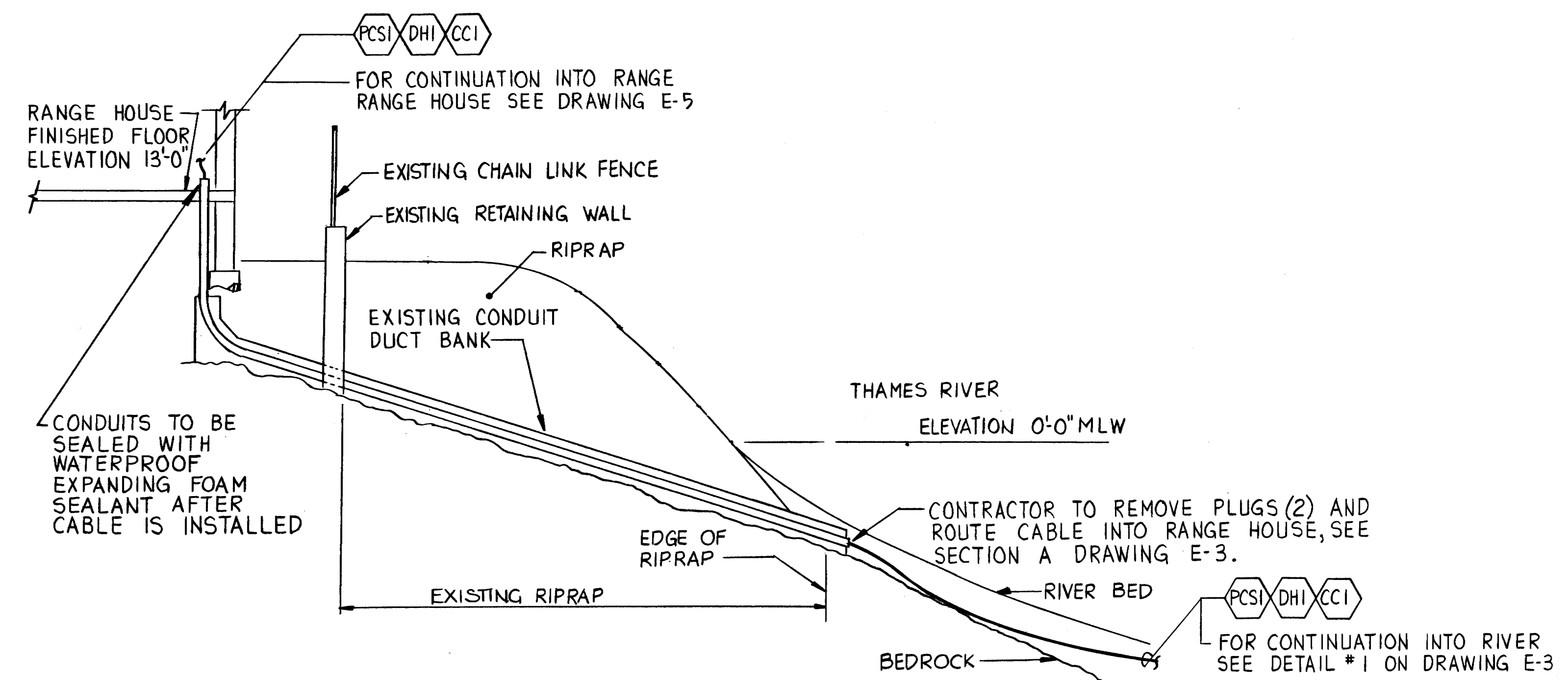
ITEM	DESCRIPTION	QTY
1	BOX, 12" X 10" X 5", NEMA 4, STEEL W/CONTINUOUS SS HINGE & LATCH	1
2	MOUNTING PANEL, STEEL, STANDARD FINISH	1
3	TERMINAL, 600V, #22-10 AWG, TUBULAR CLAMP, MODULAR	14
4	END SECTION, FOR USE WITH ITEM #3 ABOVE	1
5	END BRACKET, FOR USE WITH ITEM #3 ABOVE	2
6	MACHINE SCREW, #10-32 X 1 1/2", SELF-TAPPING, CAD PLATED	2
7	MOUNTING CHANNEL, FOR USE WITH ITEM #3 ABOVE	1
8	MARKING STRIP, FOR USE WITH ITEM #3 ABOVE	1
9	MARKING PEN, FOR USE WITH ITEM #8 ABOVE	1

1 DETAIL SOUND POWER PHONE BOX
SCALE: NONE

- INSTALLATION NOTES
1. REMOVE CASTERS
 2. FIELD CUT 6" Ø HOLE IN COMPUTER FLOOR AND INSTALL GROMMET TO PREVENT CABLE DAMAGE.

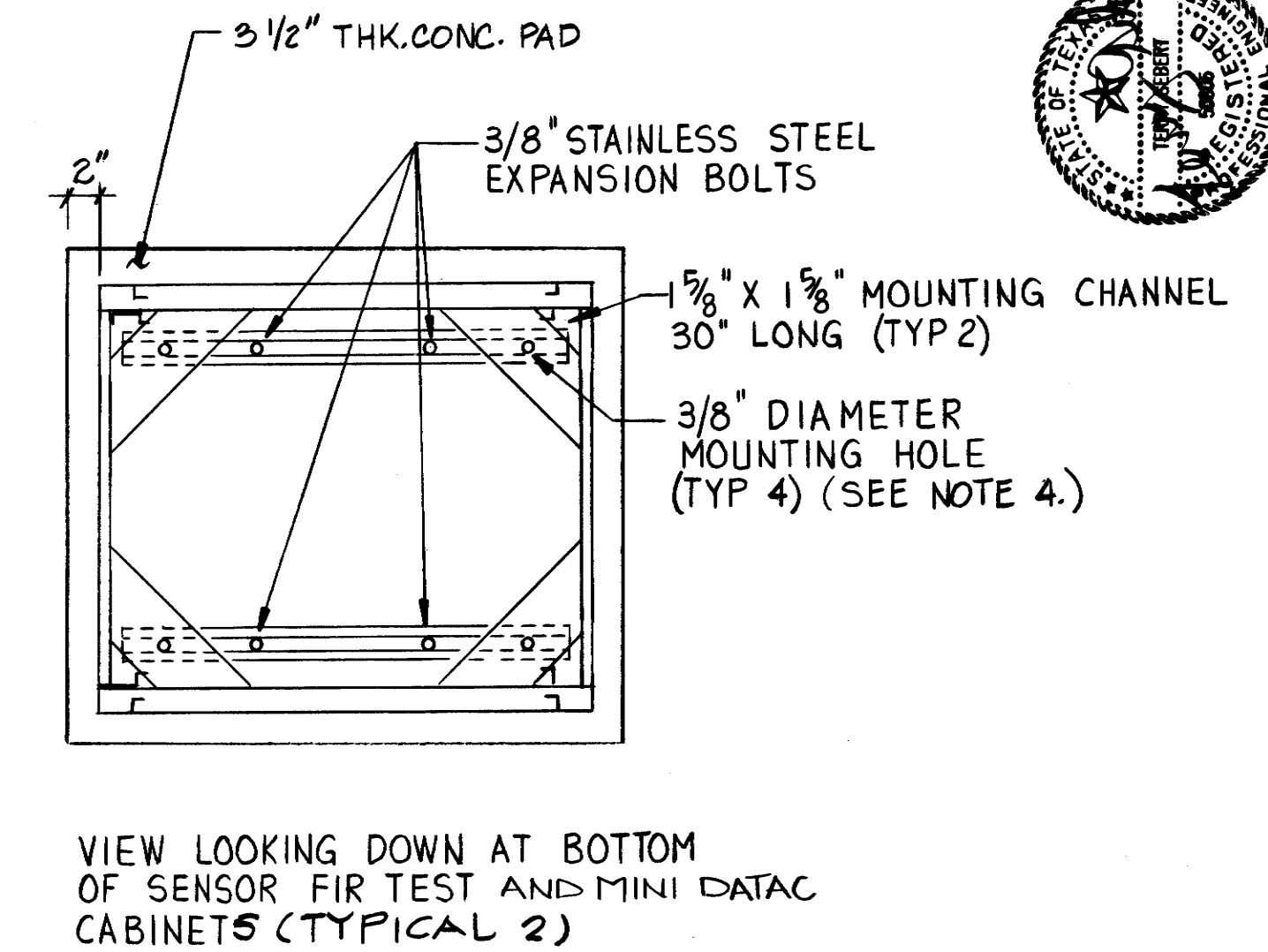


3 DETAIL
E5/E8 NOT TO SCALE

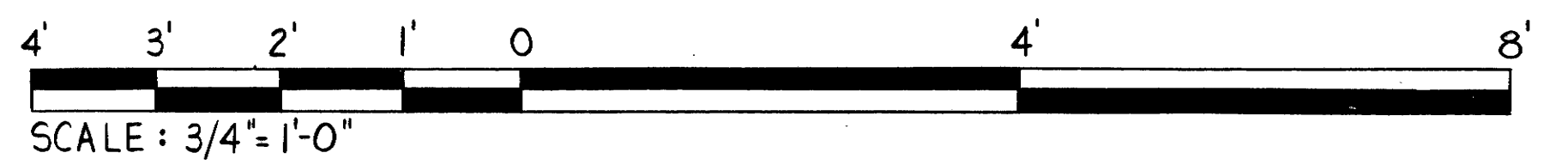


2 DETAIL
E5/E8 SCALE: 1" = 5'-0"

- INSTALLATION NOTES
1. REMOVE CASTERS
 2. CUT MOUNTING CHANNEL 28" (2 PIECES)
 3. ANCHOR MOUNTING CHANNEL TO FLOOR WITH 3/8" STAINLESS STEEL EXPANSION BOLTS TO LINE UP WITH CABINET MOUNTING HOLES.
 4. PLACE SENSOR FIR TEST/mini DATA CABINET ON MOUNTING CHANNEL AND ANCHOR CABINET TO MOUNTING CHANNEL WITH 3/8" GALVANIZED BOLT, WASHER AND SPRING NUT.
 5. JACK BOX TO BE NAVY TYPE, WATERTIGHT SOLID BRASS CONTAINING MOLDED PHENOLIC TERMINAL BLOCK AND SOLID BRASS COVER WITH SPECIALLY MOLDED JACK WHICH WILL PREVENT SHORT CIRCUITING BY WATER ENTRY IF CAP IS ACCIDENTALLY LEFT UNSCREWED IN THE PRESENCE OF WATER.



4 DETAIL
E5/E8 NOT TO SCALE



"WARNING: DRAWING MAY BECOME DISTORTED DURING REDUCTION OR OTHER REPRODUCTION PROCESS. USER IS CAUTIONED AGAINST SCALING."

CHESAPEAKE DIVISION		MAGNETIC SILENCING FACILITY		RANGE HOUSE DETAILS	
NEW LONDON CT.		NEW LONDON CT.		NEW LONDON CT.	
CODE I.D. NO. 80091		CONST. CONT. NO. N62477-86-C-0103		SPEC. 21- 86-0103	
DRAWING SIZE: D		NAVFAC DRAWING NO. 3050617		SHEET 31 OF 56	
E-8					

REVISIONS

DATE	DESCRIPTION	SYMBOL	DATE	APPROVED
1/17/89	REVIEWED BY ROICC			
1/17/89	DATE			
1/17/89	DATE			
1/17/89	DATE			
1/17/89	DATE			

FLUOR ENGINEERS, INC. HOUSTON DIVISION

DESIGN: DR DN

CHECK: E.I.C. B.P.P.

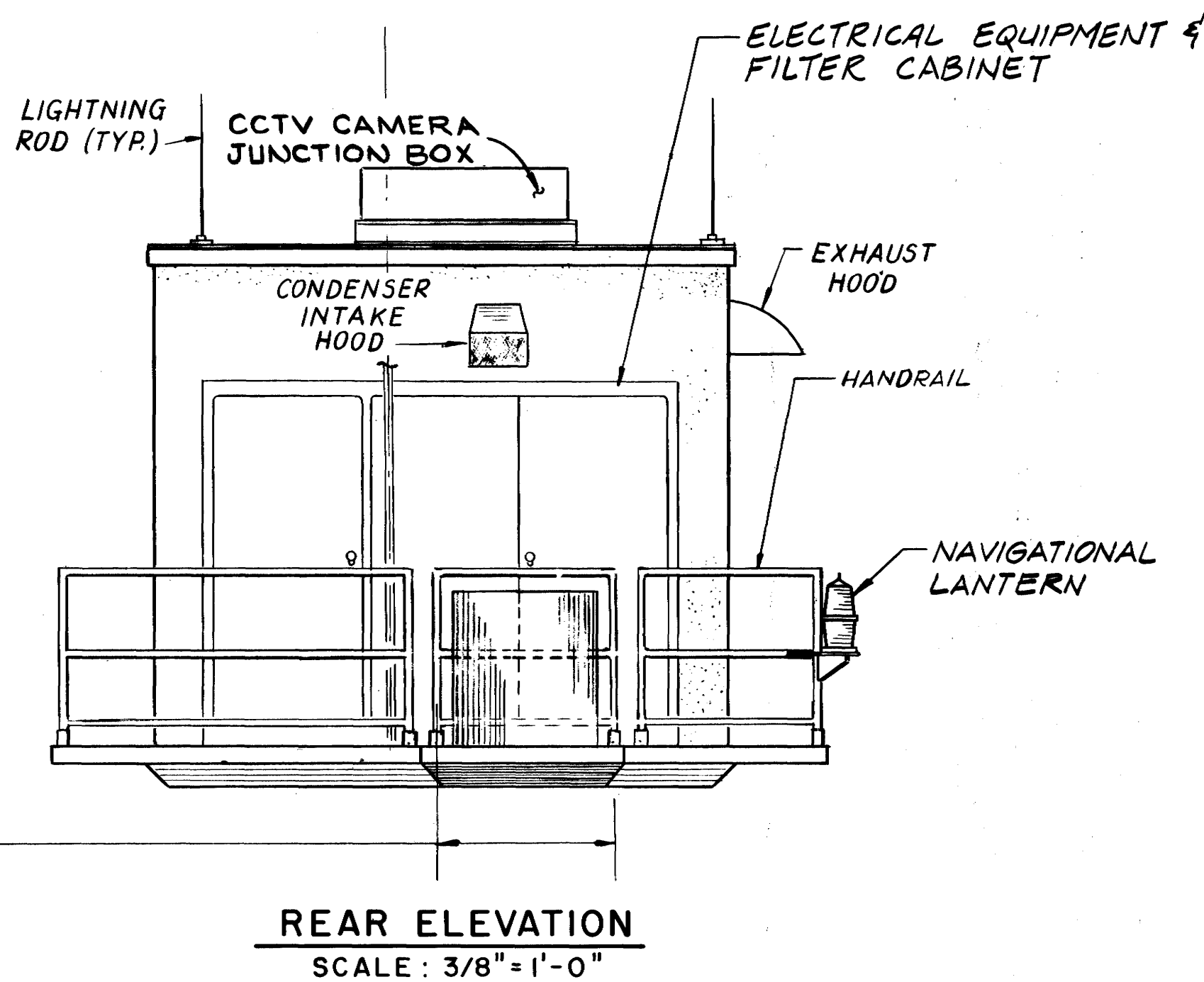
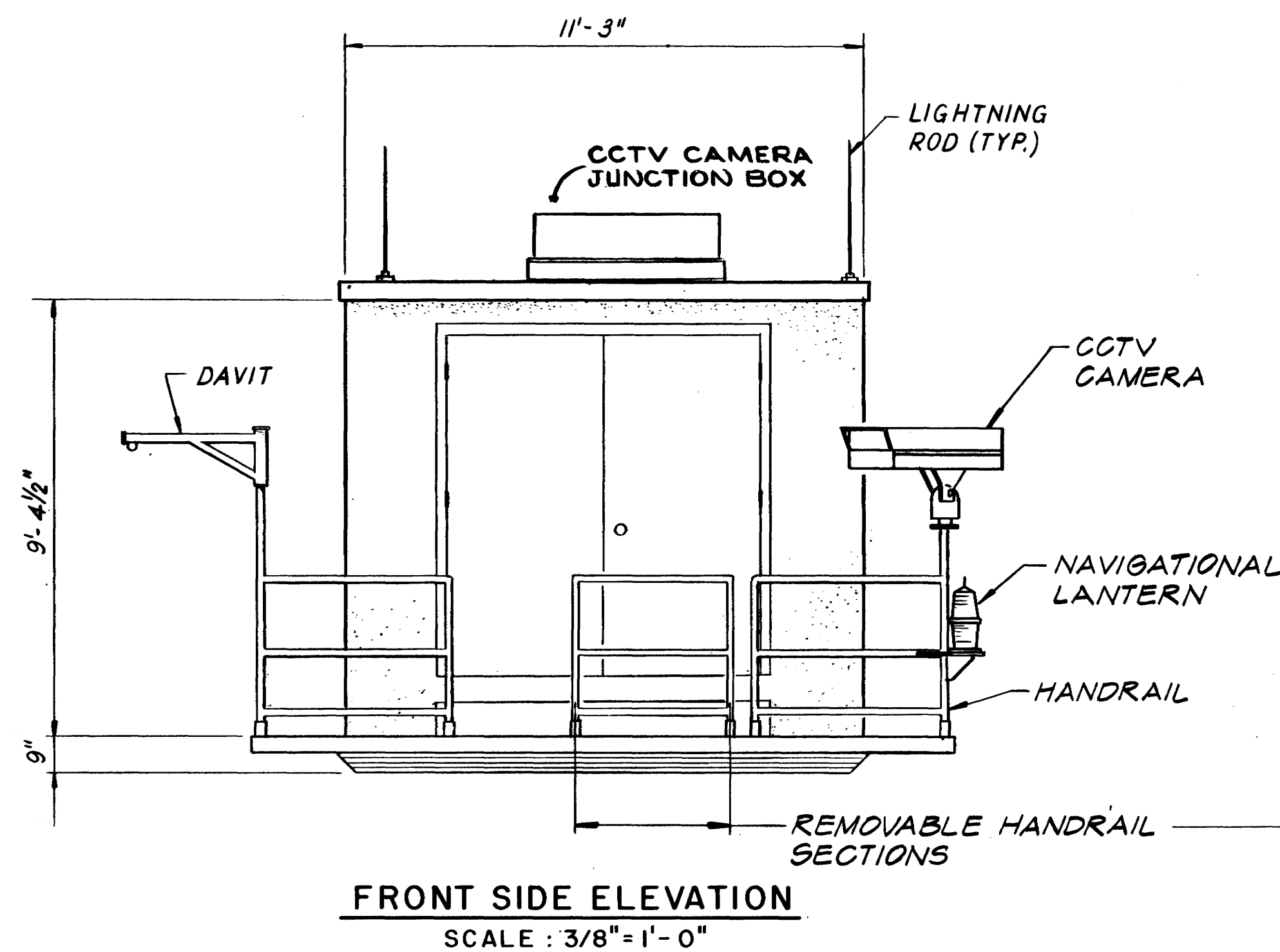
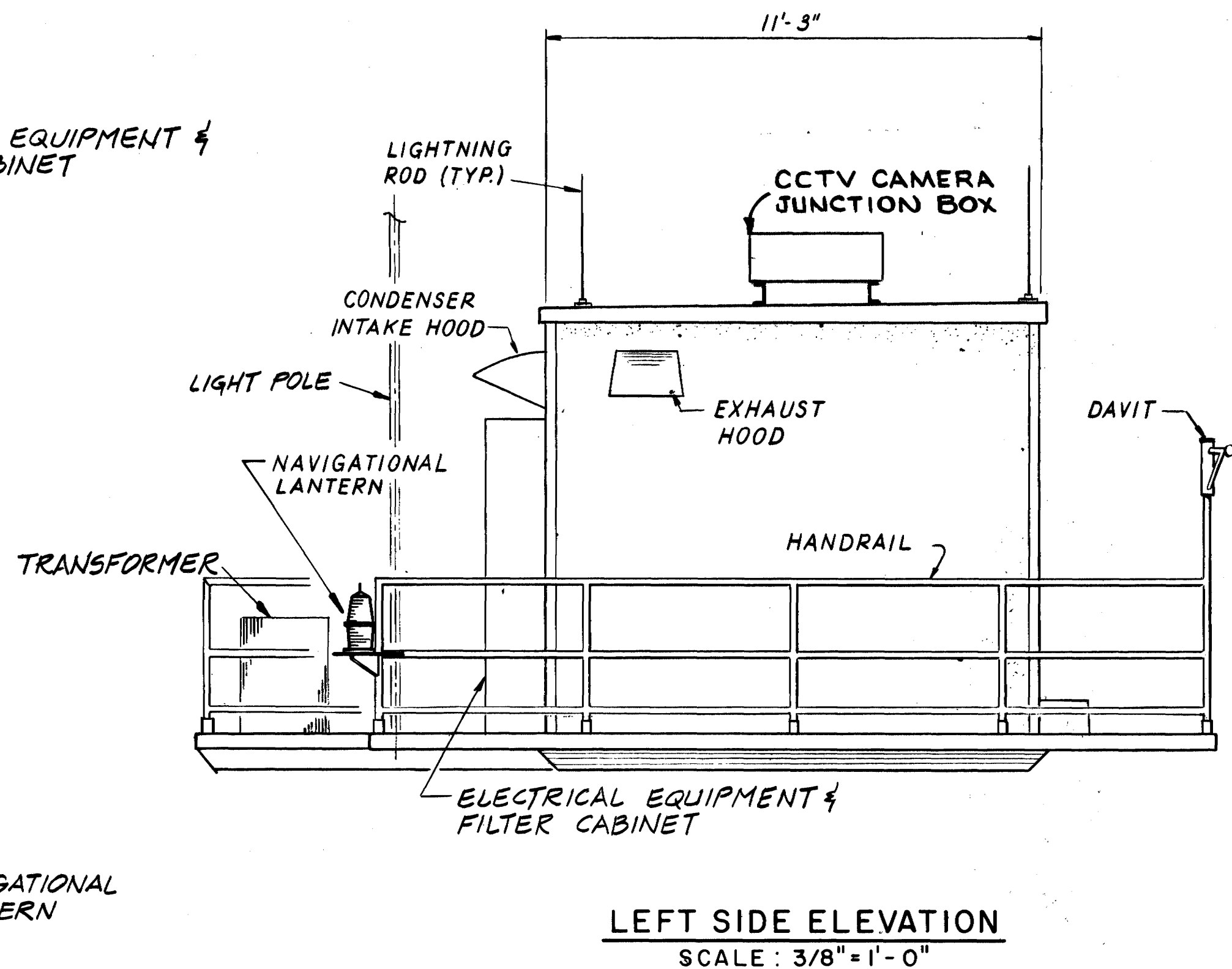
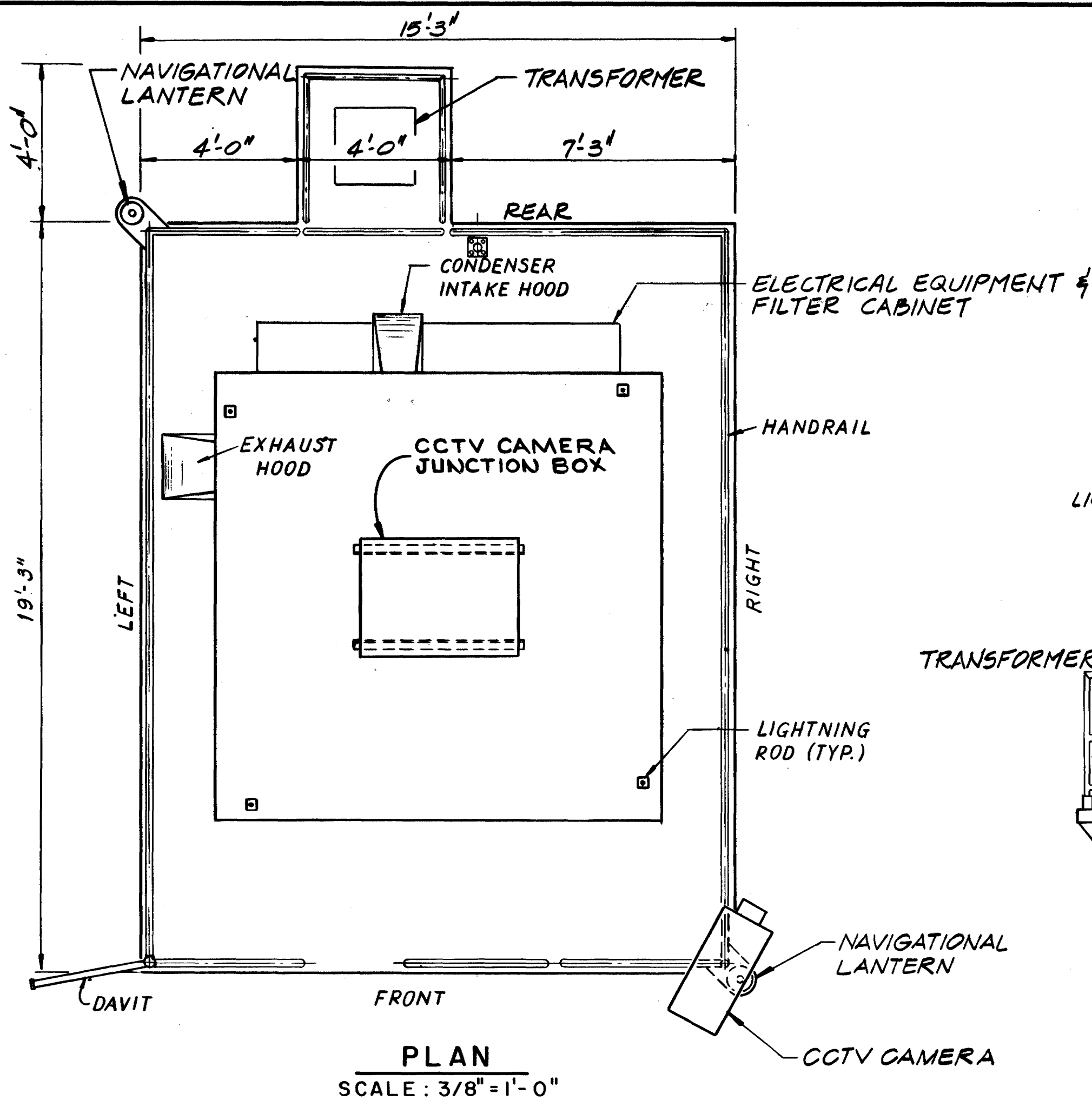
DATE: 1/17/89

APPROVED: [Signature]

ED FOR COMMANDER, NAVFAC

SEAL AREA

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



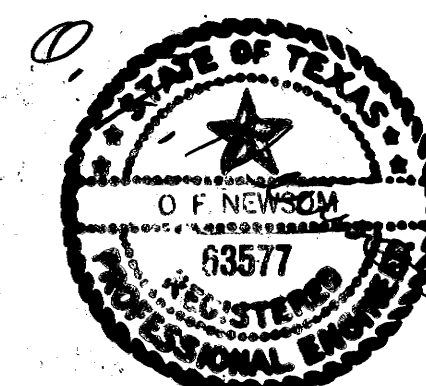
ARCHITECTURAL NOTES:

1. FINISHES:

THE EXTERIOR SURFACES OF THE WALL PANELS SHALL HAVE A SANDBLAST FINISH IN ACCORDANCE WITH THE SPECIFICATIONS. THE FOLLOWING ITEMS SHALL HAVE FINISHES OF MATCHING COLOR:

- CONDENSER INTAKE AND EXHAUST HOODS
- EXTERIOR DOORS
- ELECTRICAL EQUIPMENT AND FILTER CABINET

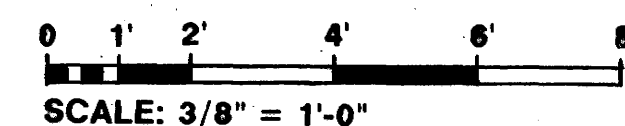
THE TYPE OF FINISH SHALL BE IN CONFORMANCE WITH THE SPECIFICATIONS FOR EACH ITEM. THE COLOR CHOSEN SHALL BE COMPATIBLE WITH THE EXTERIOR FINISH COLOR OF THE CONCRETE WALLS. COLOR SAMPLES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO USE.

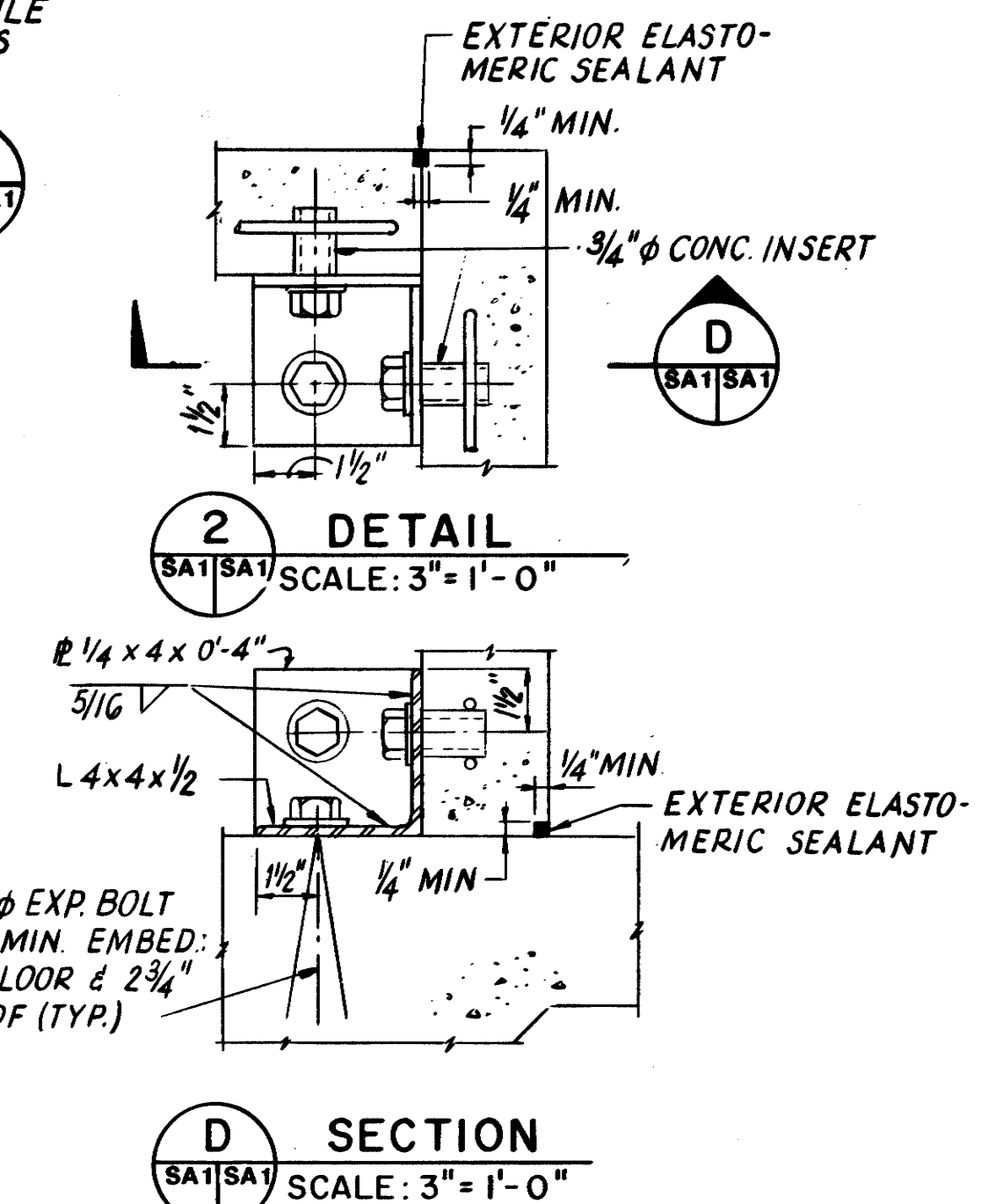
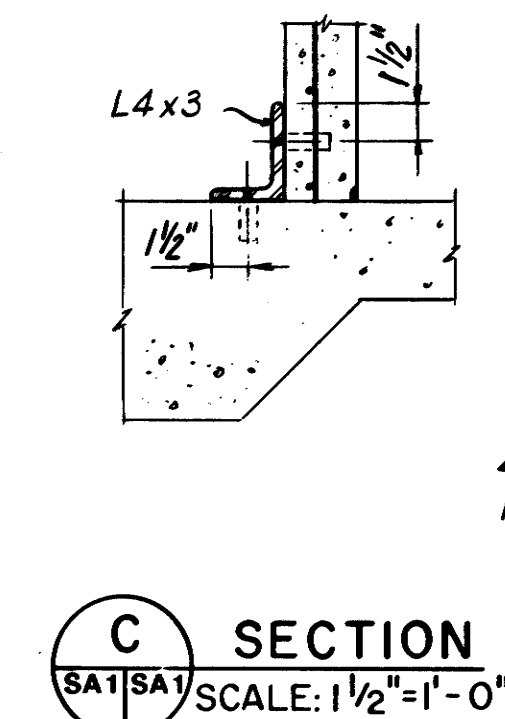
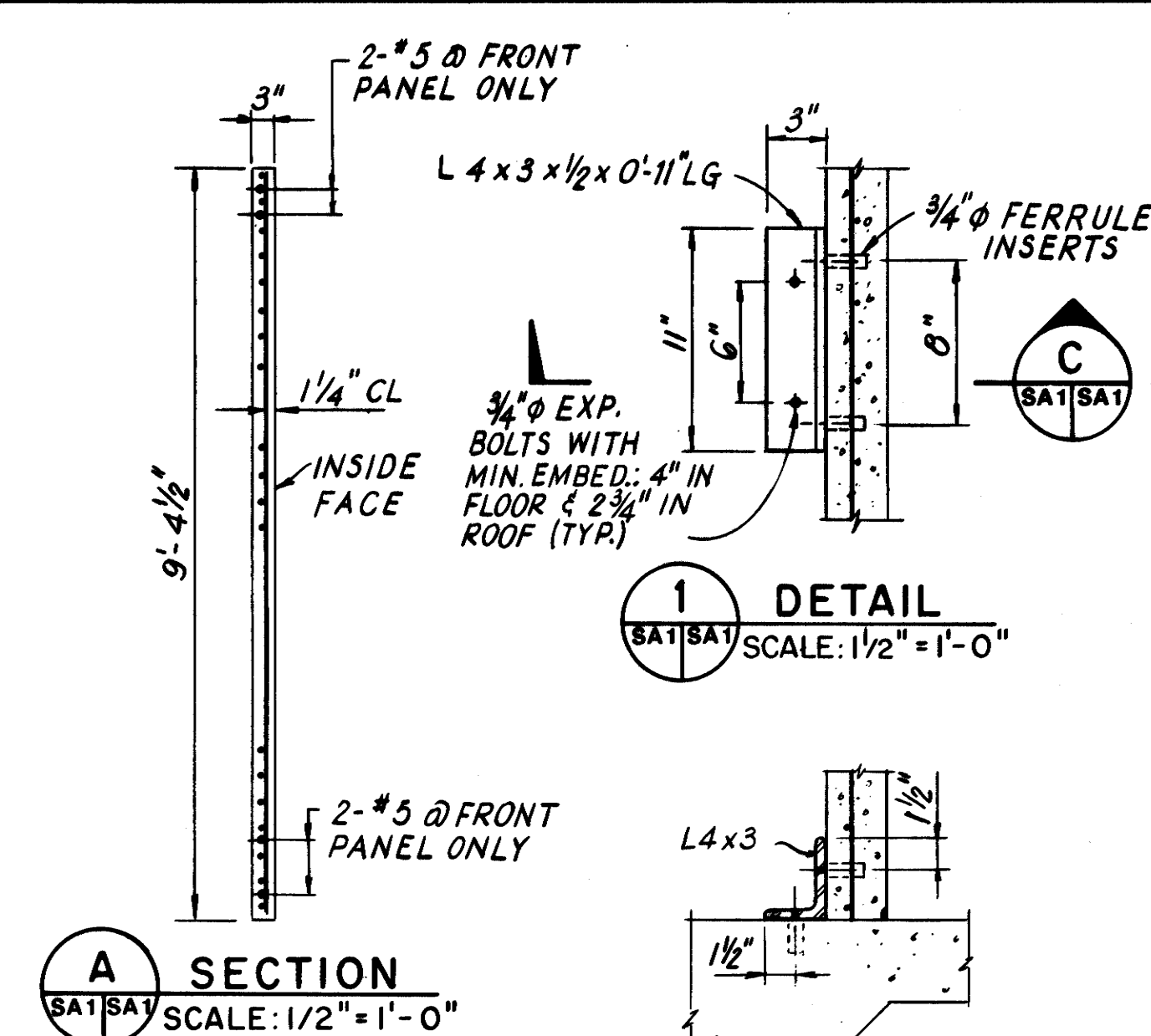
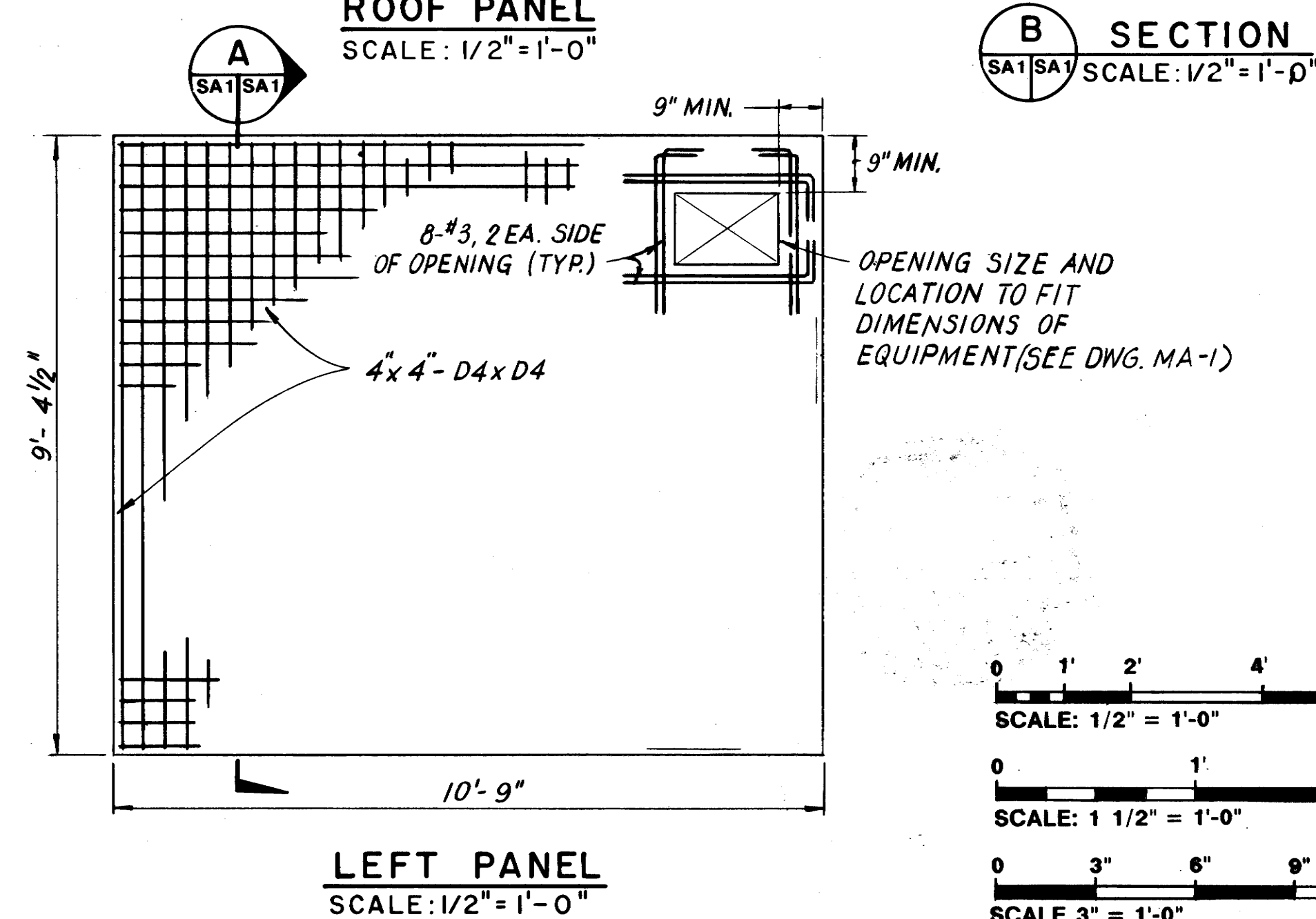
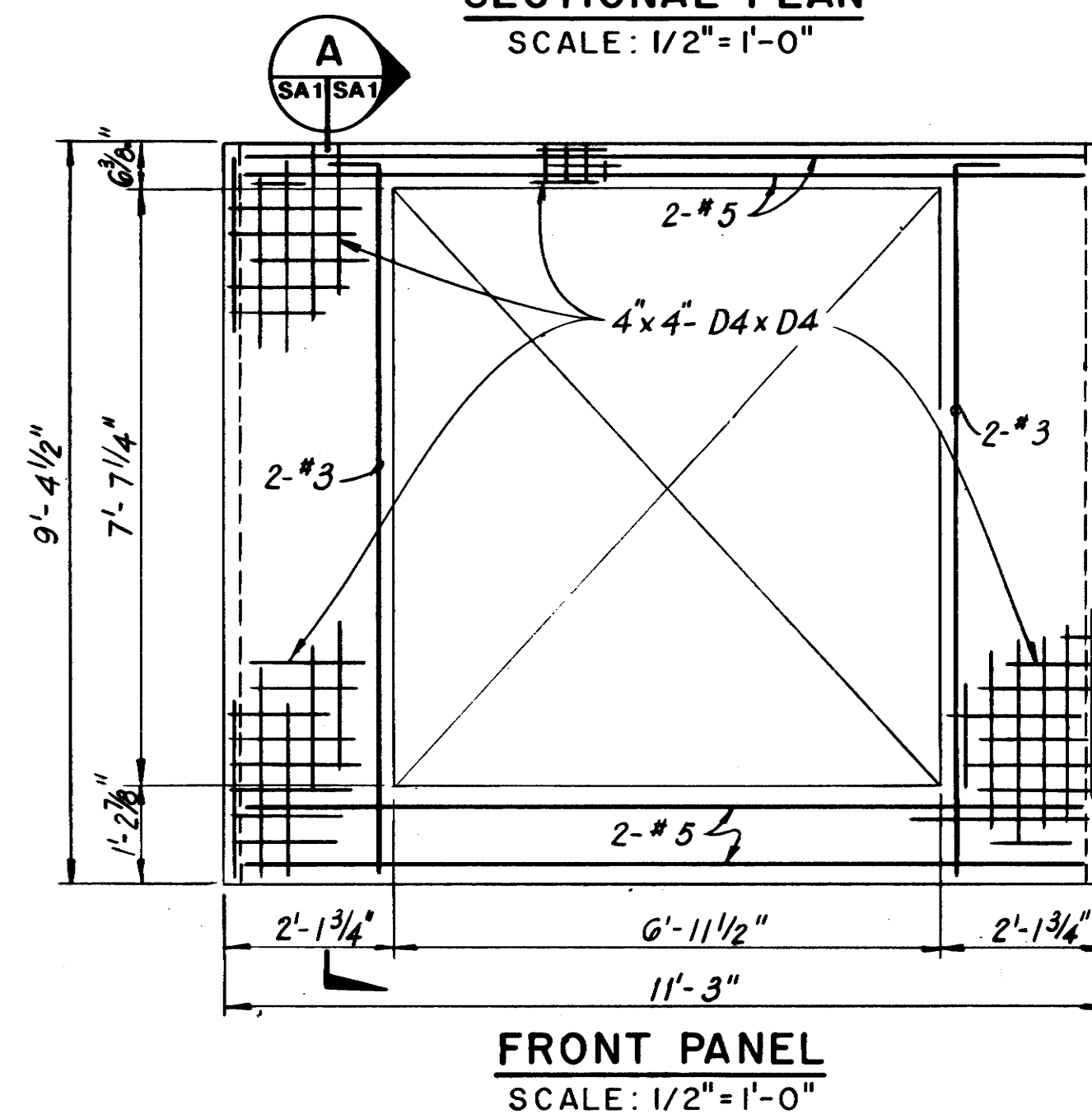
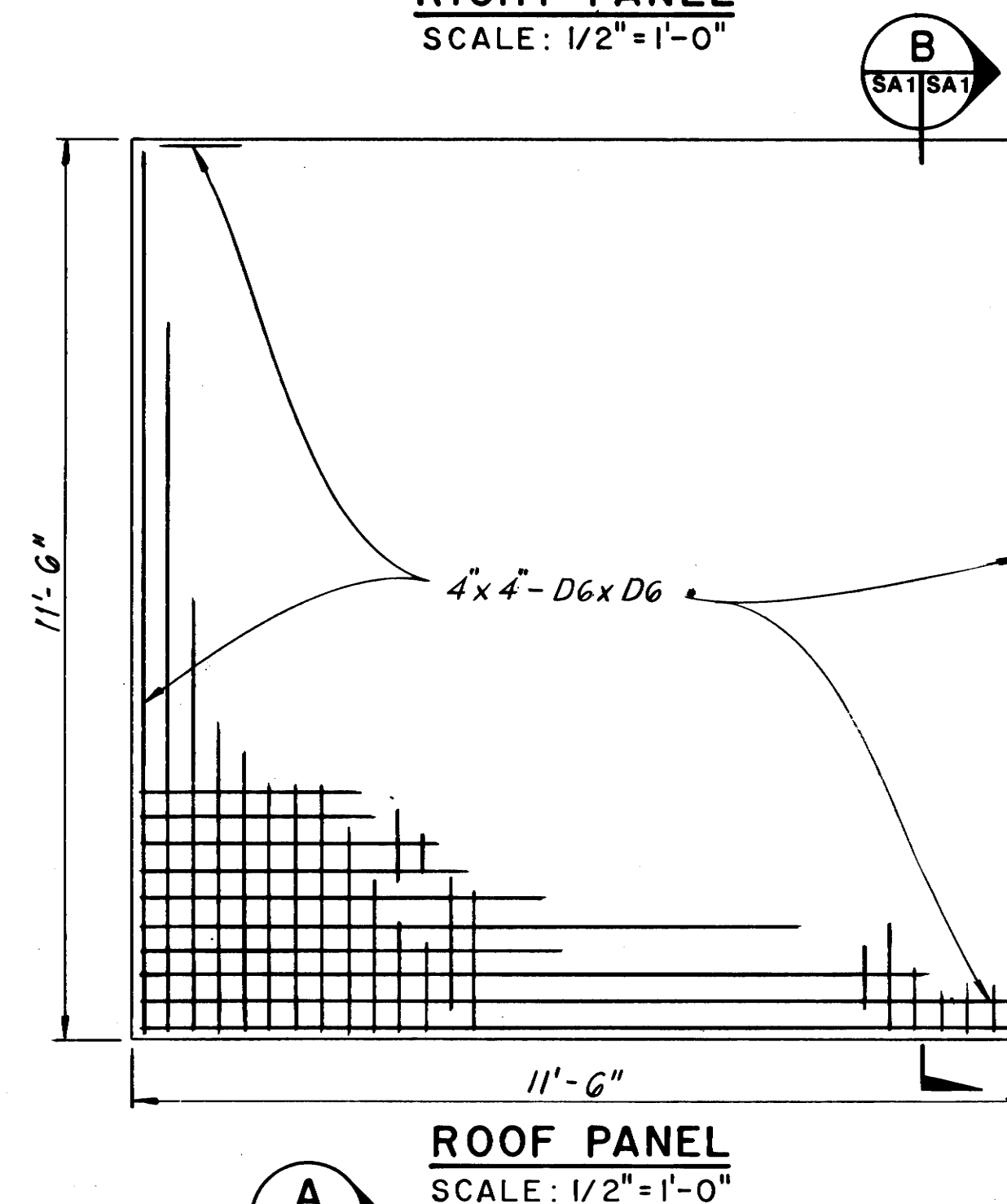
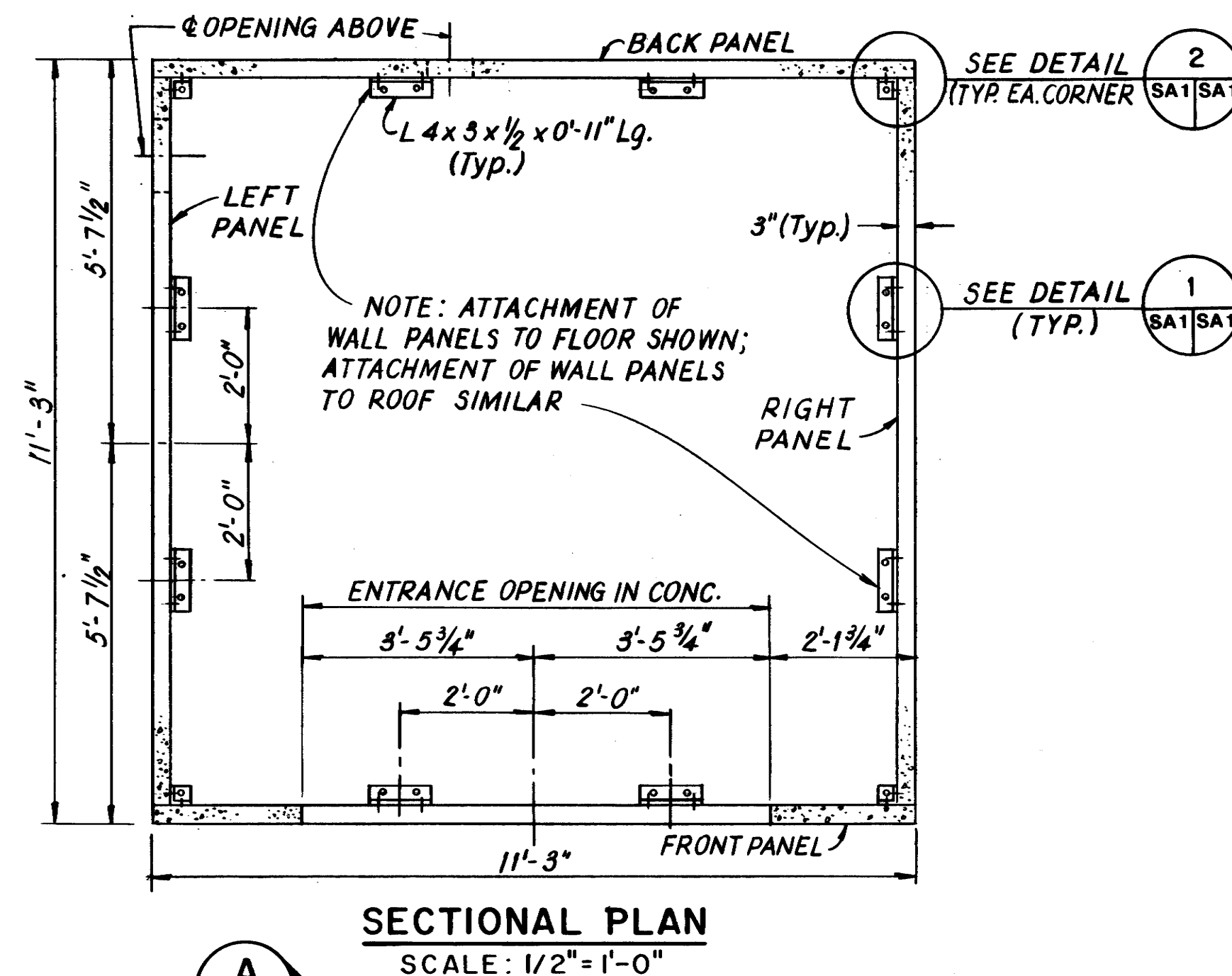
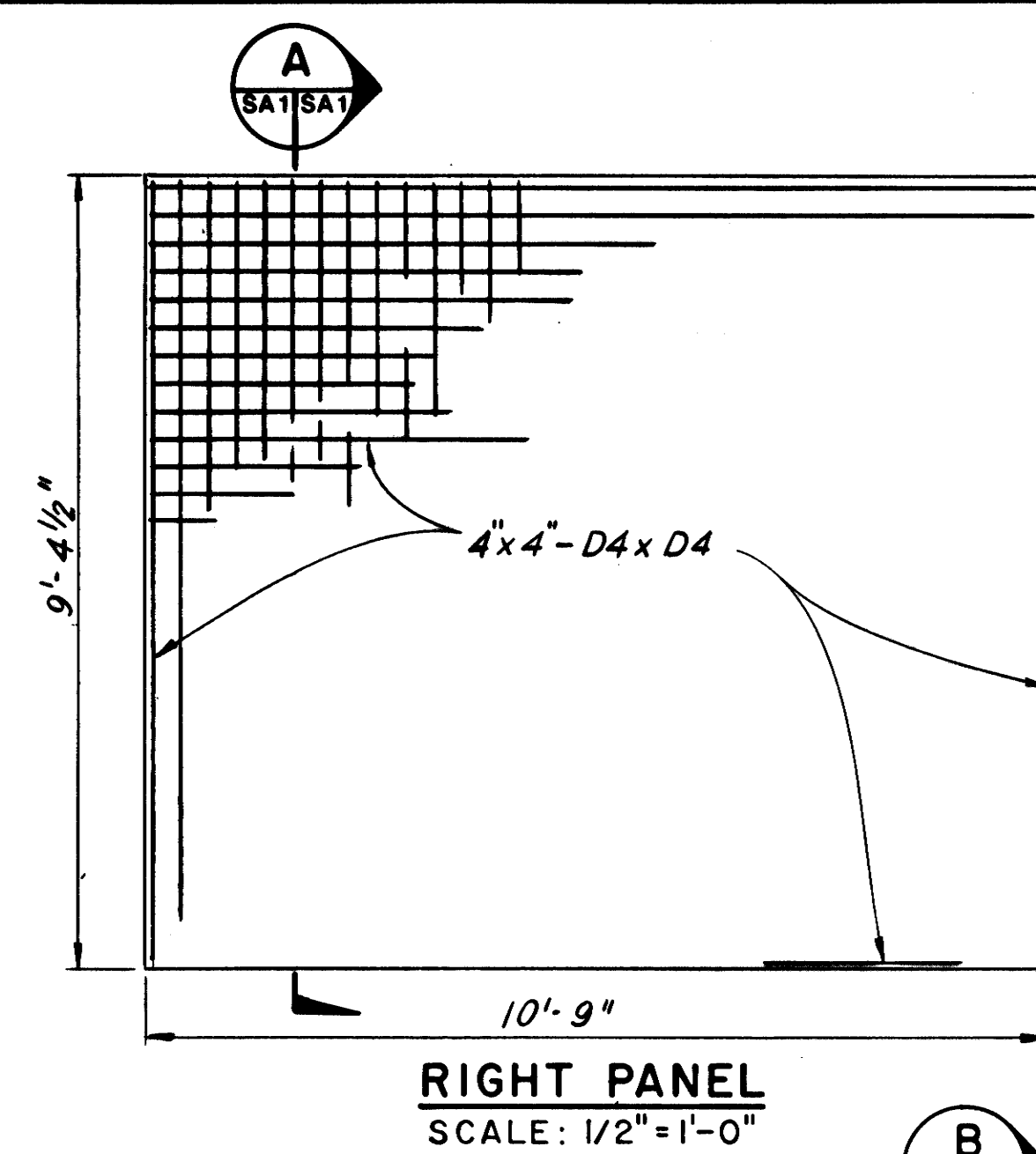
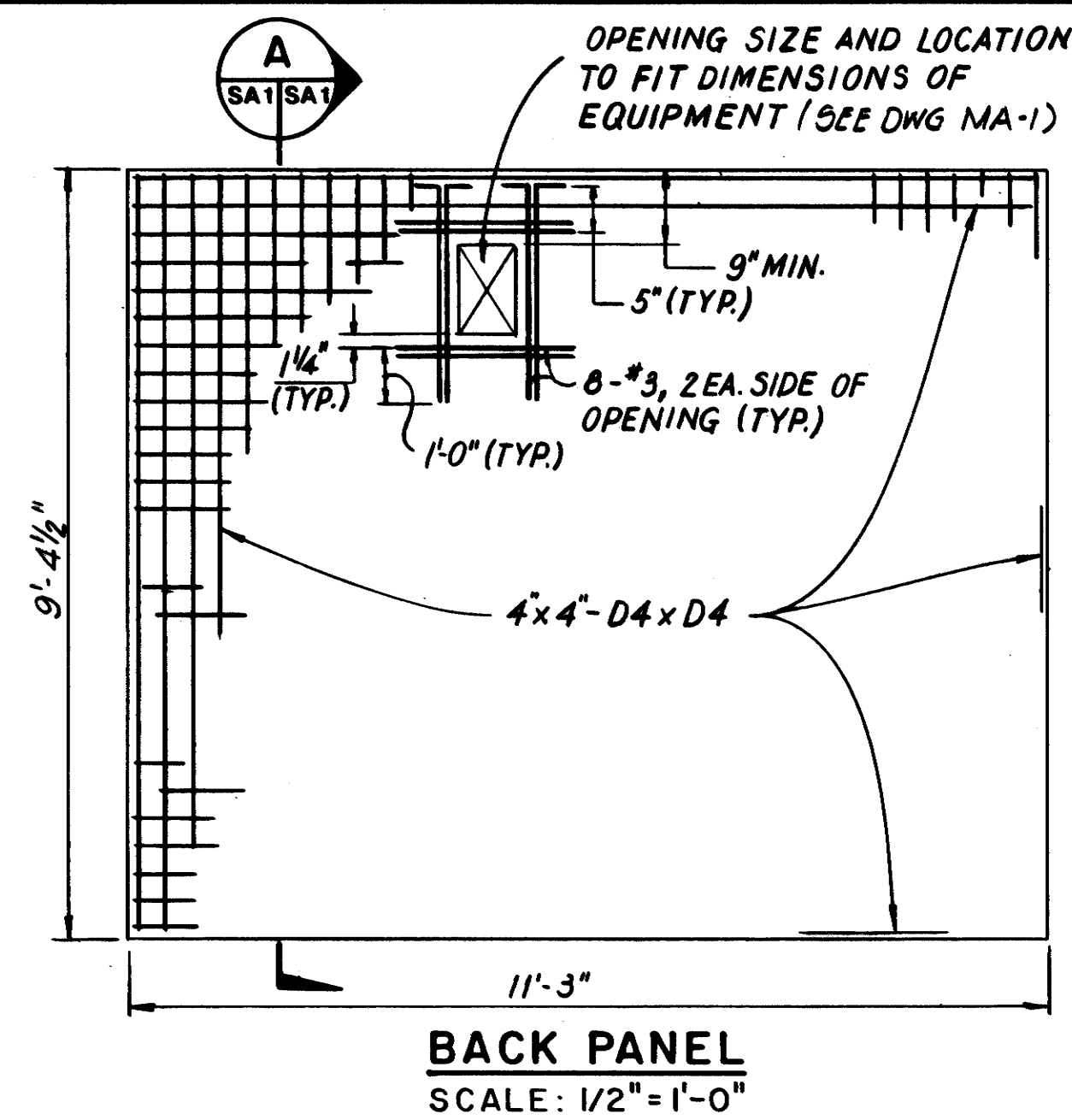


"WARNING: DRAWING MAY BECOME DISTORTED DURING REDUCTION OR OTHER REPRODUCTION PROCESS. USER IS CAUTIONED AGAINST SCALING."



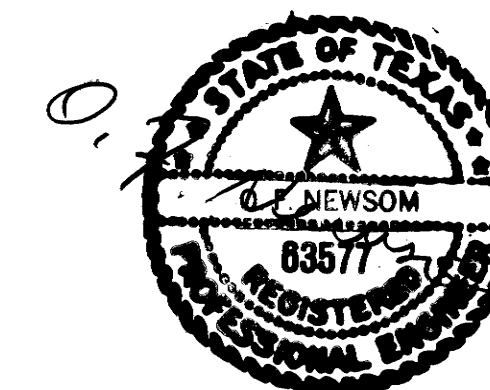
FLUOR ENGINEERS, INC. HOUSTON DIVISION		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND CHESAPEAKE DIVISION WASHINGTON, D.C.	
DES. E.P. OR E.G.P. CHK. JK SUBMITTED BY DATE OCEAN ENGR. & CONST. PPG. OFF. FPD-1 ETC. BY VPP RVD 10-44	MAGNETIC SILENCING FACILITY NEW LONDON, CT.	DATA CONCENTRATOR SHED GENERAL ARRANGEMENT	
SATISFACTORY TO ROICC DATE 4/13/87 SATISFACTORY TO DATE 17 APR 87 COMNAVSEASYS COM DATE	APPROVED HEAD FPD-1 DATE 17 APR 87 APPROVED DATE 17 APR 87 EPD FOR COMMANDER, NAVFAC	SIZE CODE IDENT. NO. NAVFAC DRAWING NO. D 80091 3050620	AA-1 CONSTR. CONTR. NO. N62477-86-C-0103 SPEC. 21-86-0103 SHEET 34 OF 56



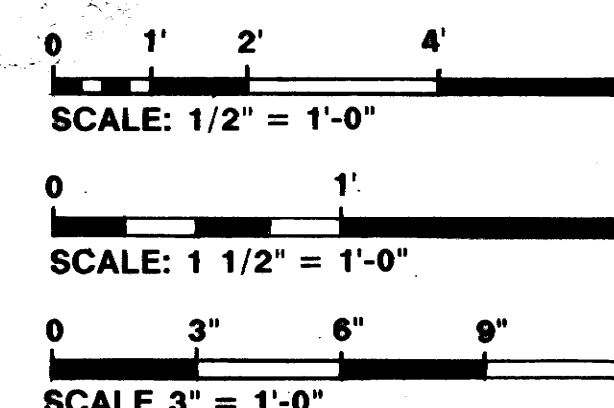



- ### GENERAL STRUCTURAL NOTES

1. 28 DAY COMPRESSIVE STRENGTH OF CONCRETE: 4,000 PSI
2. REINFORCING STEEL:
DEFORMED BARS: ASTM A615 GRADE 60 (EPOXY COATED)
WELDED WIRE FABRIC: ASTM A497 (GALVANIZED)
3. STRUCTURAL STEEL:
PLATES AND ROLLED SHAPES: ASTM A36
PIPES: ASTM A53 GRADE B OR ASTM A 120
4. DESIGN LOADS:
LIVE AND SUPERIMPOSED DEAD LOAD:
ON ROOF: (SIMULTANEOUS)
UNIFORM LOAD: 40 PSF
CONCENTRATED LOAD: 800 LBS
ON SUBFLOOR: (NON-SIMULTANEOUS)
UNIFORM LOAD: 150 PSF
CONCENTRATED LOAD: 1000 LBS
ON ACCESS FLOOR: (NON-SIMULTANEOUS)
UNIFORM LOAD: 150 PSF
CONCENTRATED LOAD: 1000 LBS
ON PERIMETER WALKWAY: (NON-SIMULTANEOUS)
UNIFORM LOAD: 50 PSF
CONCENTRATED LOAD: 200 LBS
- WIND LOAD:
ON WALLS: 31 PSF INWARD
27 PSF OUTWARD
ON ROOF: 27 PSF UPWARD
- SEISMIC LOAD:
SEISMIC ZONE COEFFICIENT: $Z = 1.0$ (ZONE 4)
IMPORTANCE FACTOR: $I = 1.25$
ASSUMED LIVE AND SUPERIMPOSED DEAD LOAD DURING
SEISMIC EVENT:
ON EXTERIOR WALLS: 30 PSF
ON SHIELD WALLS: 10 PSF
ON ROOF: 8 PSF + 800 LB. CONC. LOAD
ON SUBFLOOR: 150 PSF
ON ACCESS FLOOR: 150 PSF
ON PERIMETER WALKWAY: 30 PSF

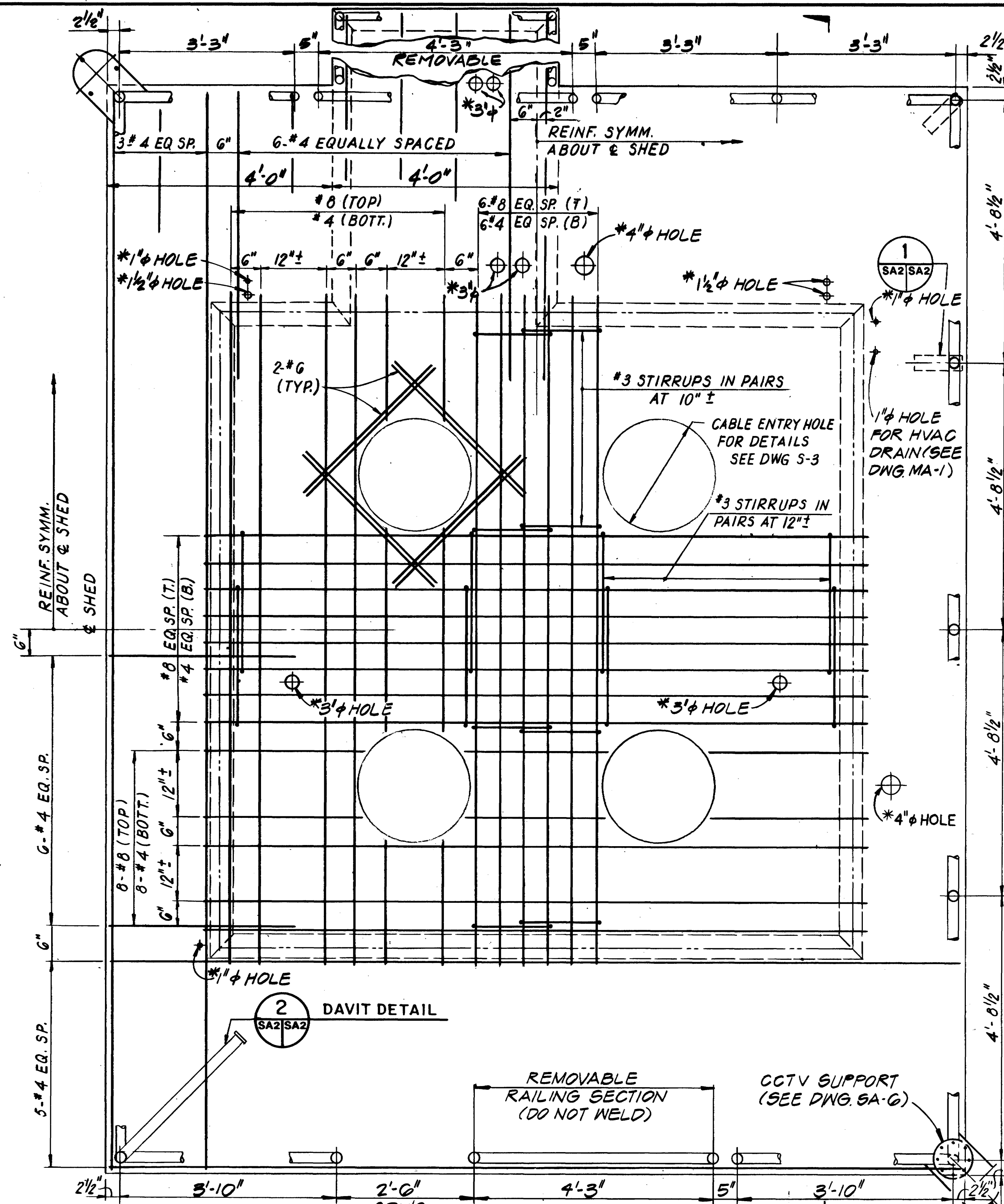


**"WARNING: DRAWING MAY BECOME DISTORTED
DURING REDUCTION OR OTHER REPRODUCTION
PROCESS. USER IS CAUTIONED AGAINST SCALING."**

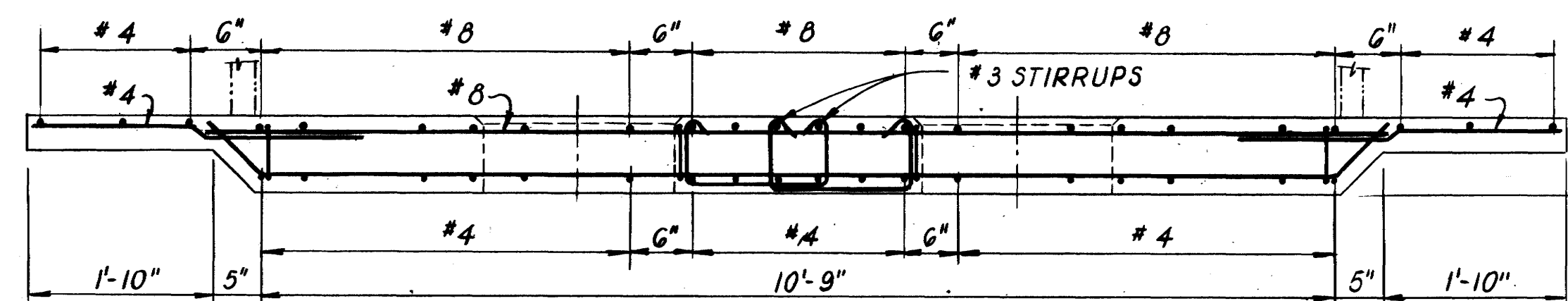


 FLUOR ENGINEERS, INC. HOUSTON DIVISION		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND CHESAPEAKE DIVISION WASHINGTON, D. C.	
DES E.P. <input checked="" type="checkbox"/> OR E.G.P. <input checked="" type="checkbox"/> CHK JK SUBMITTED BY _____ DATE _____ TITLE: PROGRAM MGR. OCEAN ENGR. & CONST. PROJ. OFF. FPO-1 ETC. <i>WBS</i> RWD <i>MB</i> <i>mid</i>		MAGNETIC SILENCING FACILITY NEW LONDON, CT. PRECAST CONCRETE WALL AND ROOF PANEL DETAILS	
APPROVED HEAD FPO-1 DATE _____ <i>WBS</i> <i>17 APR 87</i> APPROVED DATE _____ <i>R.E. Jones</i> <i>17 APR 87</i> EFO FOR COMMANDER, NAVFAC		SIZE CODE IDENT. NO. D 80091	NAVFAC DRAWING NO. 3050621 CONSTR. CONTR. NO. N62477-86-C-1013
		SCALE AS NOTED	SHEET 35 OF 56

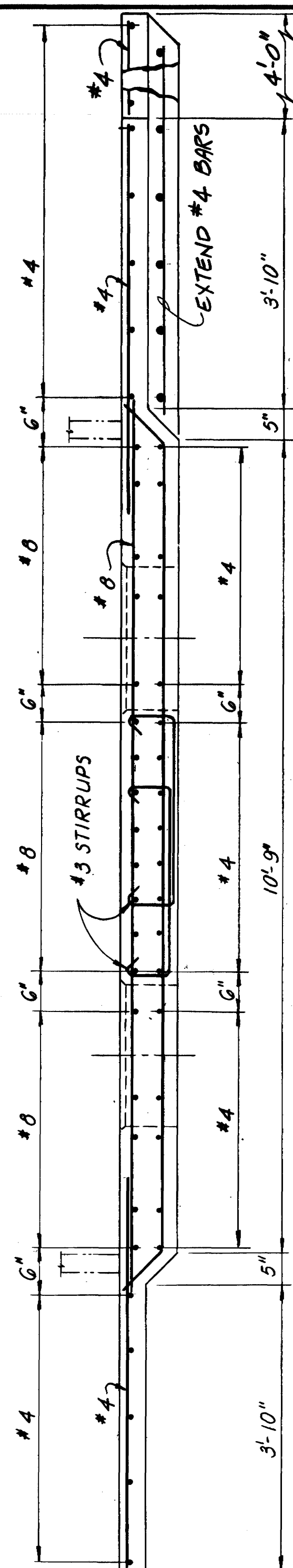
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



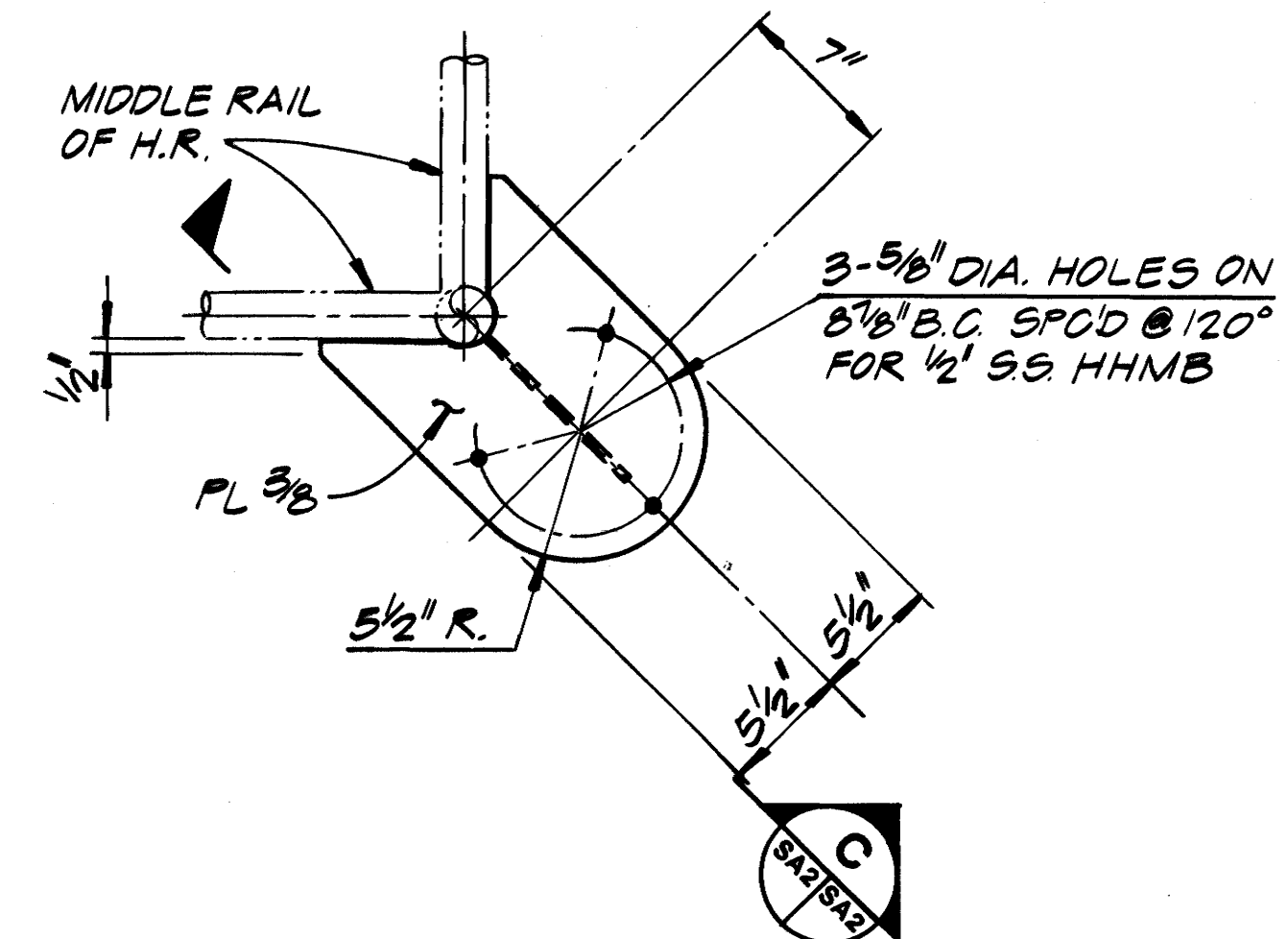
PLAN
SCALE: 3/4" = 1'-0"



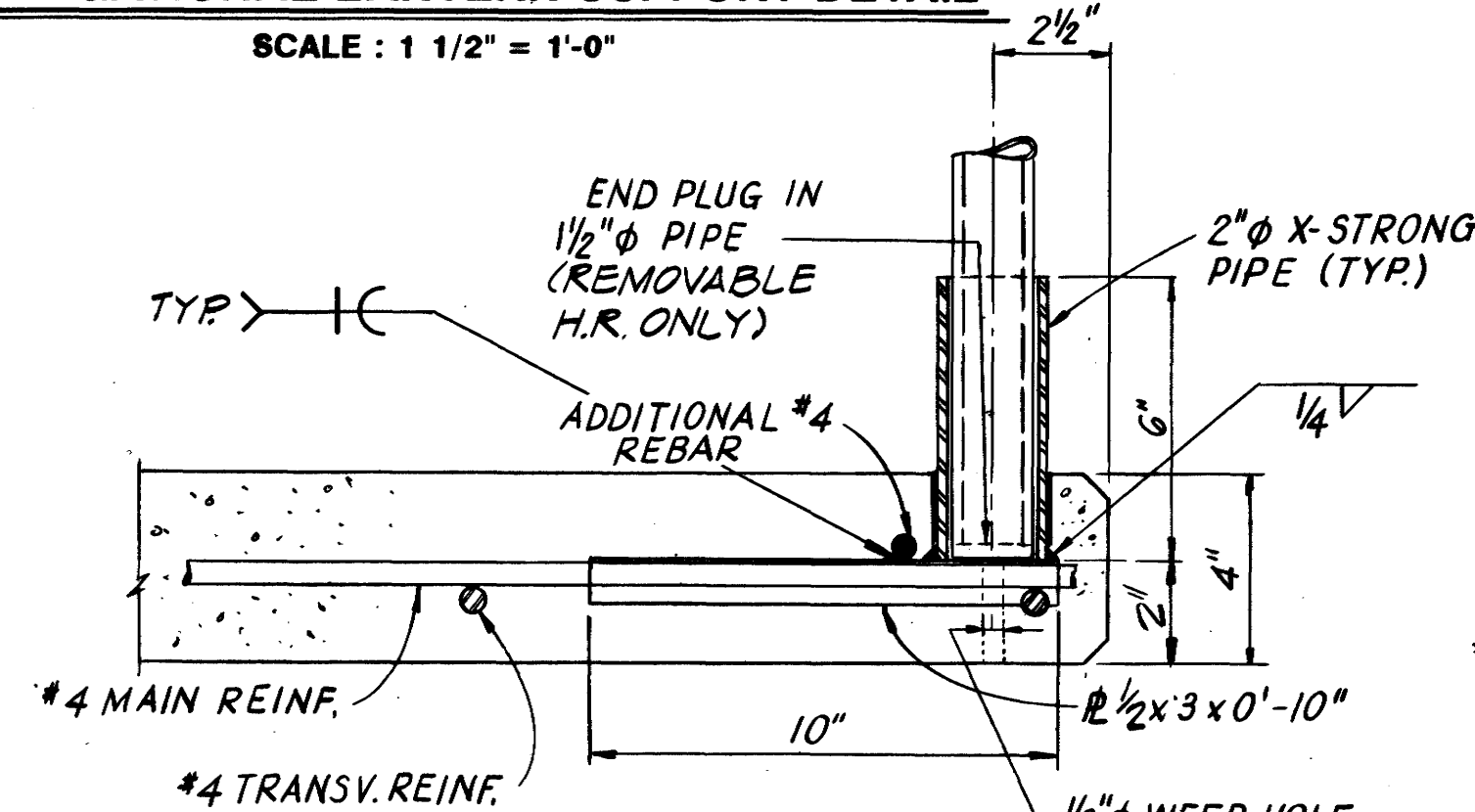
A SECTION
SCALE: 3/4" = 1'-0"



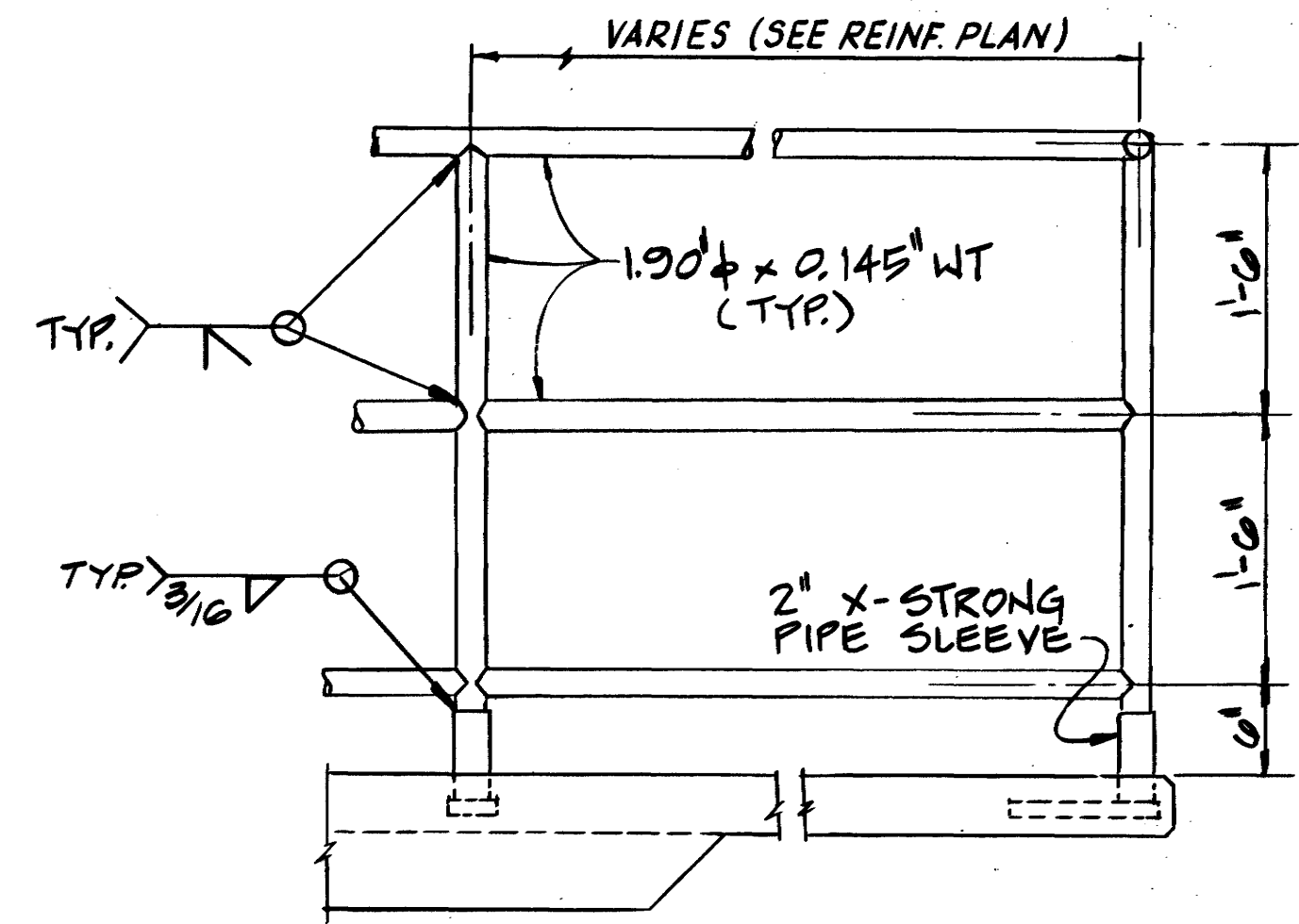
B SECTION
SCALE: 3/4" = 1'-0"



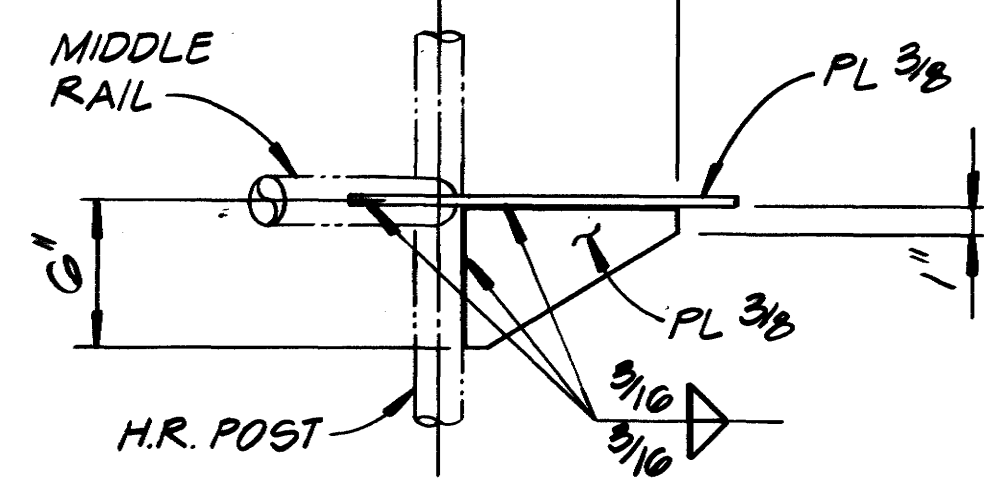
NAVIGATIONAL LANTERN SUPPORT DETAIL
SCALE: 1 1/2" = 1'-0"



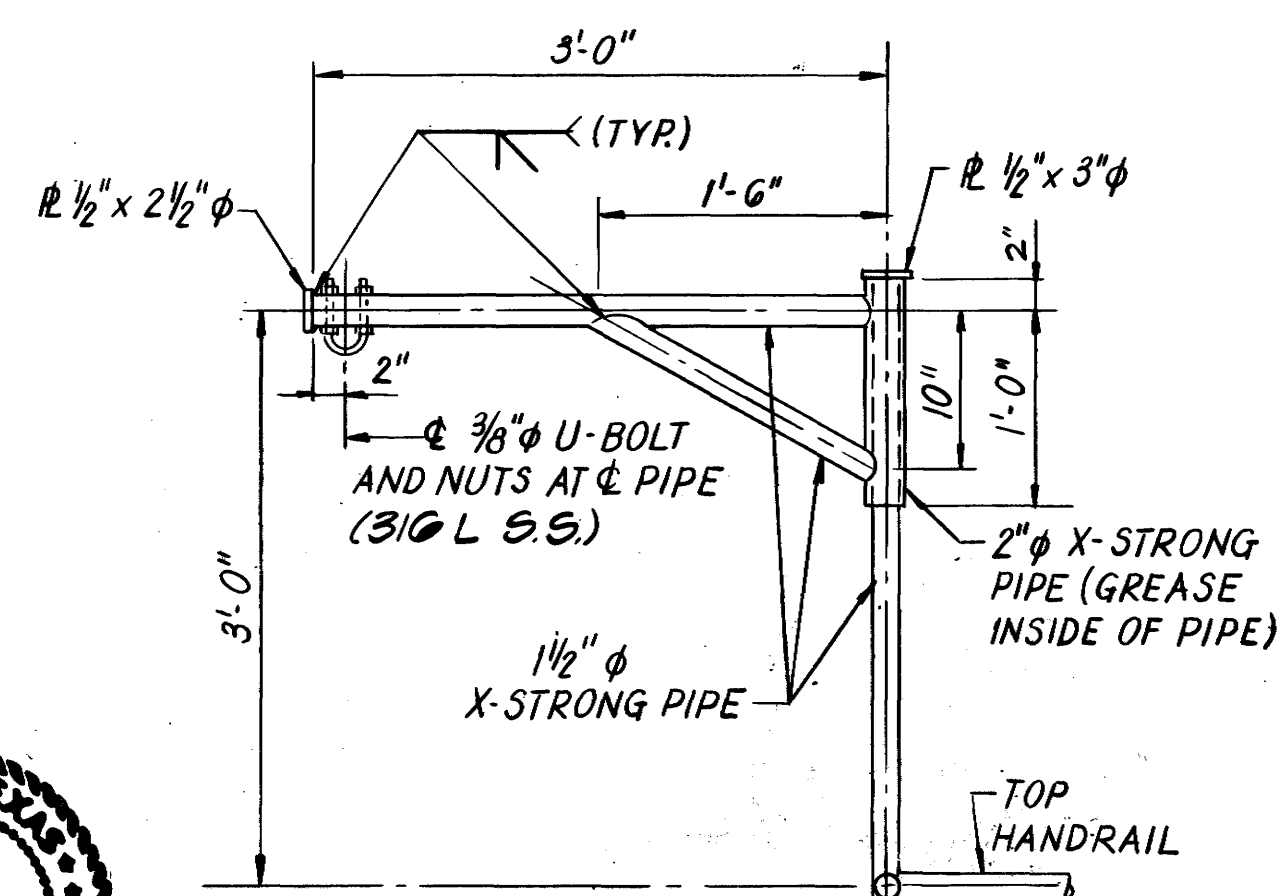
1 DETAIL
SCALE: 3" = 1'-0"



RAILING DETAIL
SCALE: 1" = 1'-0"



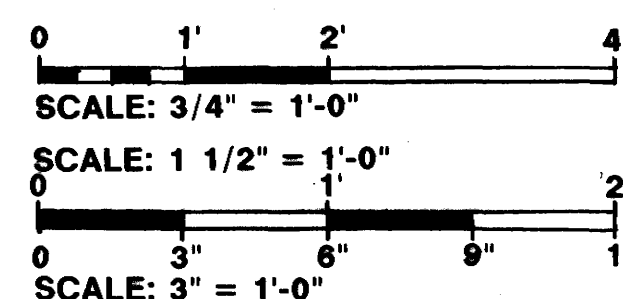
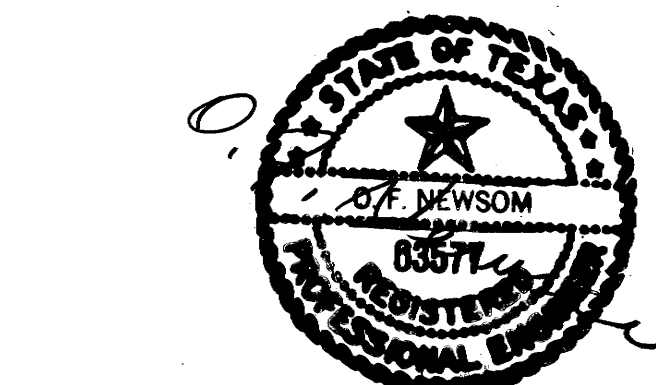
C SECTION
SCALE: 1 1/2" = 1'-0"



2 DAVIT DETAIL
SCALE: 1" = 1'-0"

- NOTES:**
1. FOR DETAILS OF DECK ANCHORAGE TO SUBSTRUCTURE, SEE SUBSTRUCTURE DRAWINGS.
 2. DAVIT DESIGN LOAD IS 200 LB.
 3. ALL HANDRAIL, DAVIT, SLEEVES AND CONCRETE INSERTS TO BE HOT-DIP GALVANIZED AFTER FABRICATION.
 4. *-ASTERISK DENOTES ELECTRICAL PENETRATION. EXACT SIZE & LOCATION TO BE DETERMINED BY FABRICATOR.

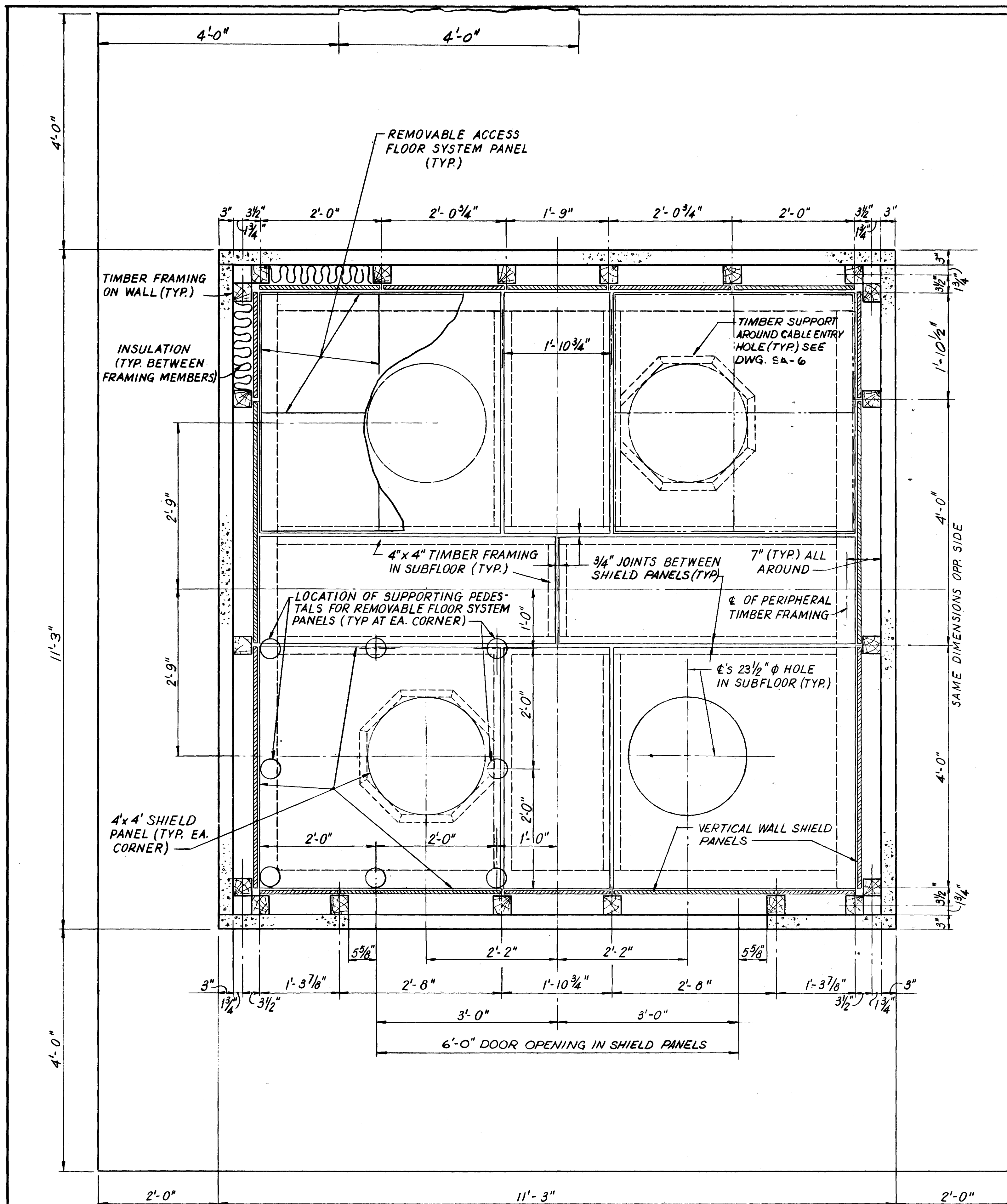
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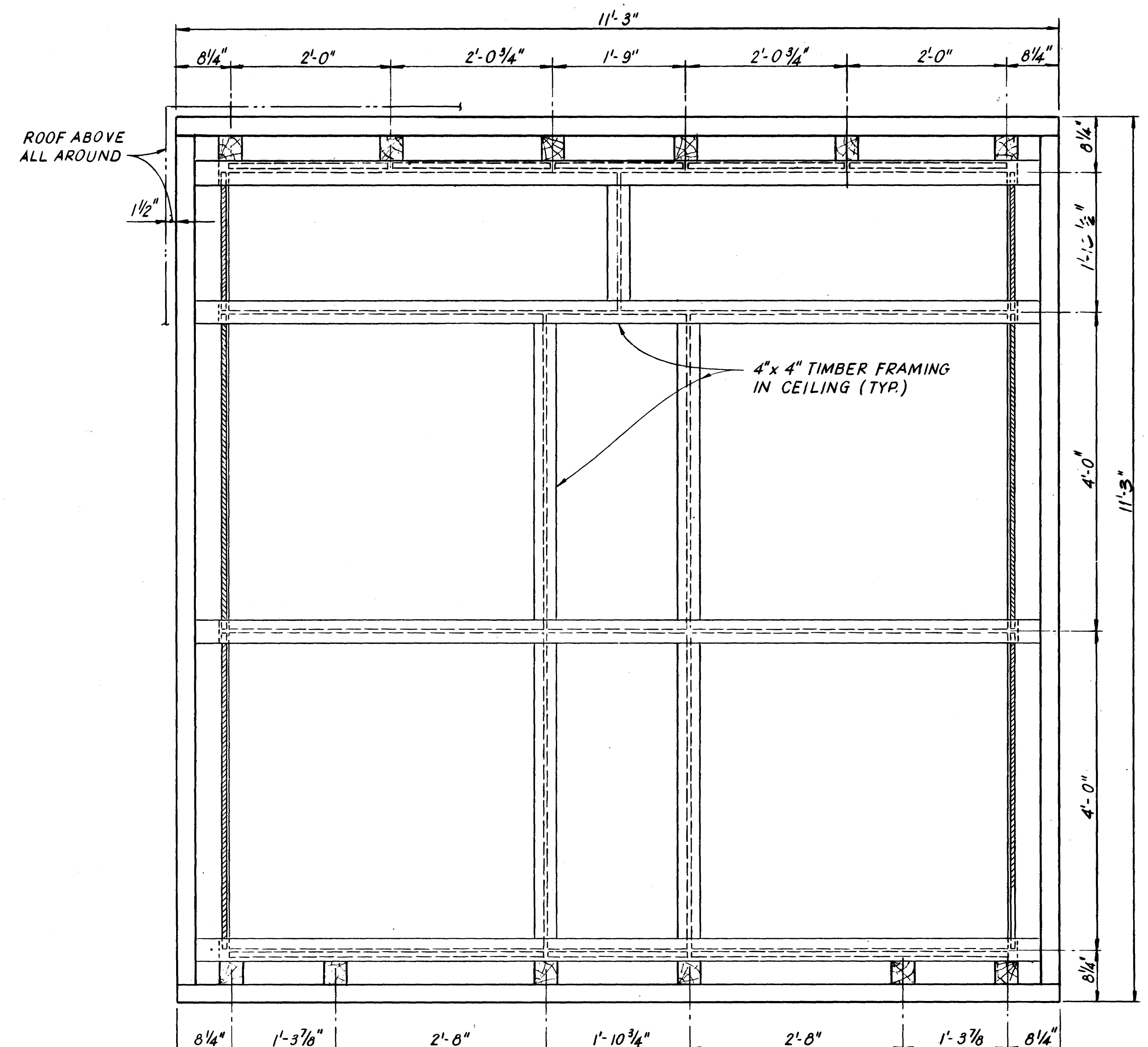
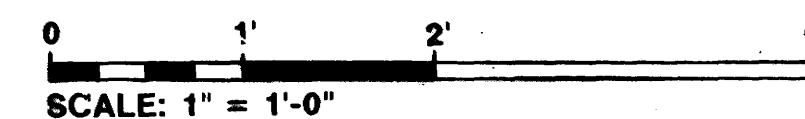
SATISFACTORY TO
ROICC
DATE 4/10/83
APPROVED BY
DATE 17 APR 84
COMNAVSEASYSOM

FLUOR ENGINEERS, INC.
HOUSTON DIVISION
DES. EP OR E.G.P. CHK. JK
SUBMITTED BY DATE
TITLE: PROGRAM MGR.
OCEAN ENGR. & CONST. PROJ. OFF. FPO-1
EIC. C. B. B. 10 10 10

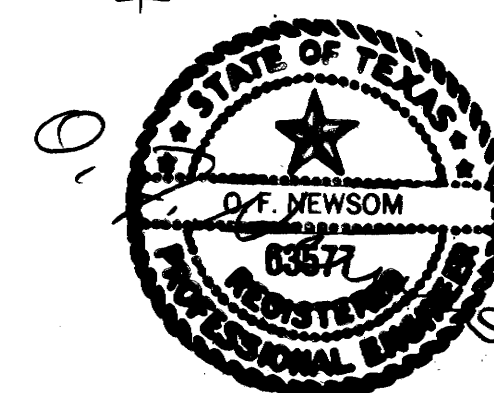
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
CHESAPEAKE DIVISION
WASHINGTON, D.C.
MAGNETIC SILENCING FACILITY NEW LONDON, CT.
PRECAST CONCRETE DECK AND RAILING DETAILS
SIZE CODE IDENT. NO. NAVFAC DRAWING NO.
D 80091 3050622 SA-2
CONSTR. CONTR. NO. N62477-86-C-0103
SPEC. 21-86-0103 SHEET 36 OF 56



FLOOR PLAN
SCALE: 1" = 1'-0"



CEILING PLAN
SCALE: 1" = 1'-0"

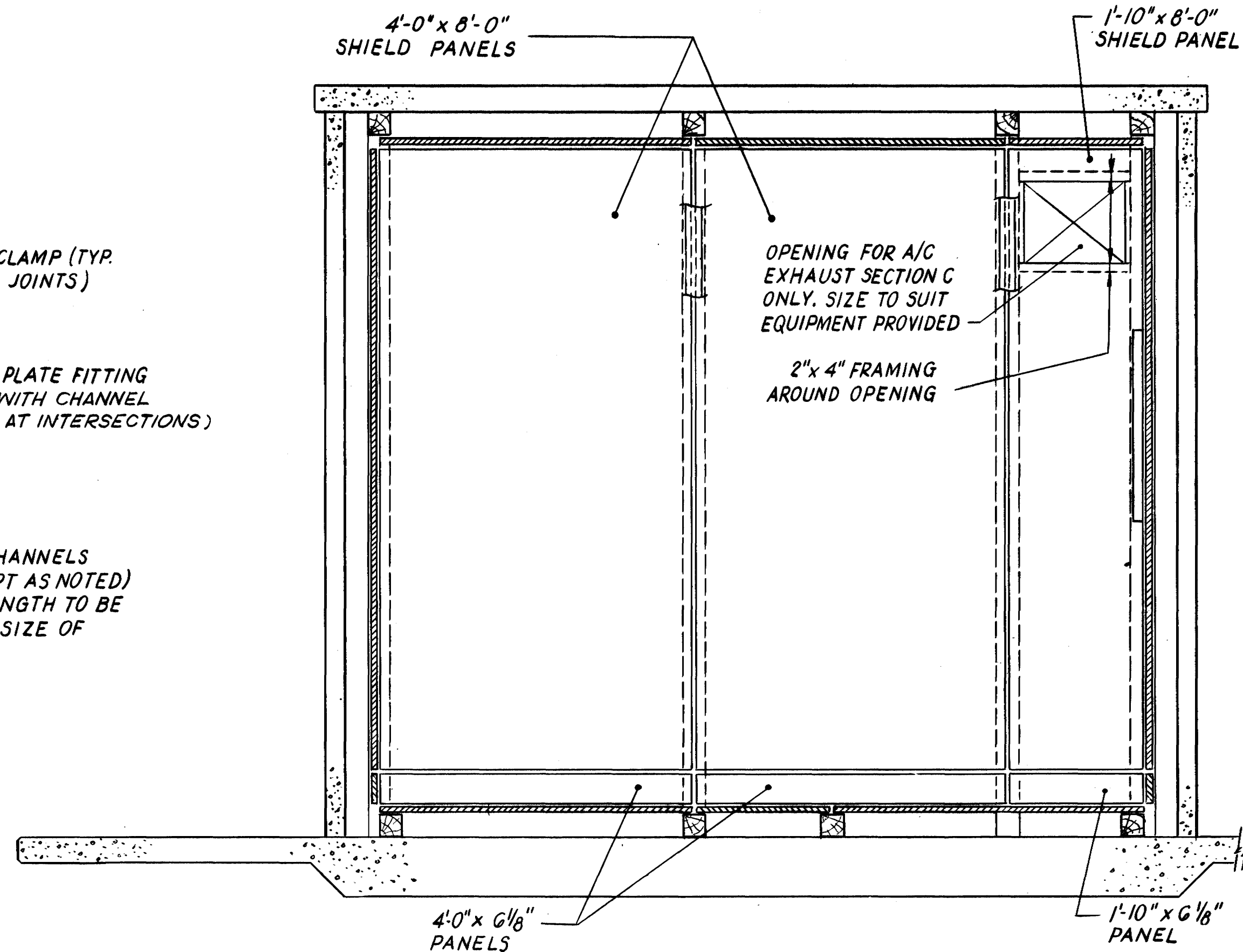


SATISFACTORY TO
ROICC
DATE
COMNAVSEASCOM

FLUOR ENGINEERS, INC.
HOUSTON DIVISION
DES. EP DR. EGR. CHK. JK
SUBMITTED BY DATE
TITLE: PROGRAM MBR.
OCEAN ENGR. & CONST. BRN. OFF. FPO-1
EIC. *W. W. RVD* *10* *17 APR 89*
APPROVED HEAD FPO-1 DATE
APPROVED DATE
EFD FOR COMMANDER, NAVFAC

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
CHESAPEAKE DIVISION
WASHINGTON, D.C.
MAGNETIC SILENCING FACILITY NEW LONDON, CT.
INTERIOR FLOOR AND CEILING PLANS
SIZE CODE IDENT. NO. NAVFAC DRAWING NO. SA-3
D 80091 3050623
CONSTR. CONTR. NO. N62477-86-C-0103
SCALE: 1" = 1'-0" SPEC. 21-86-0103 SHEET 37 OF 56

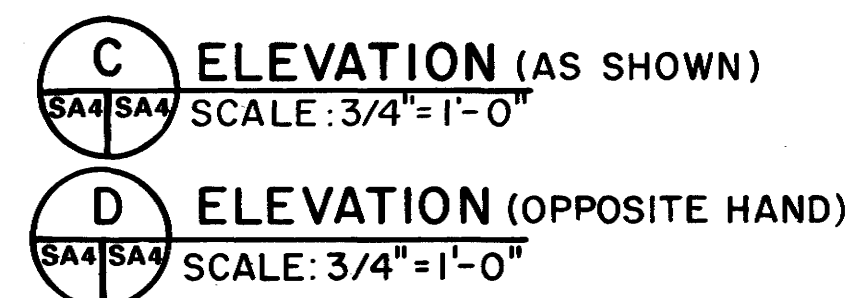
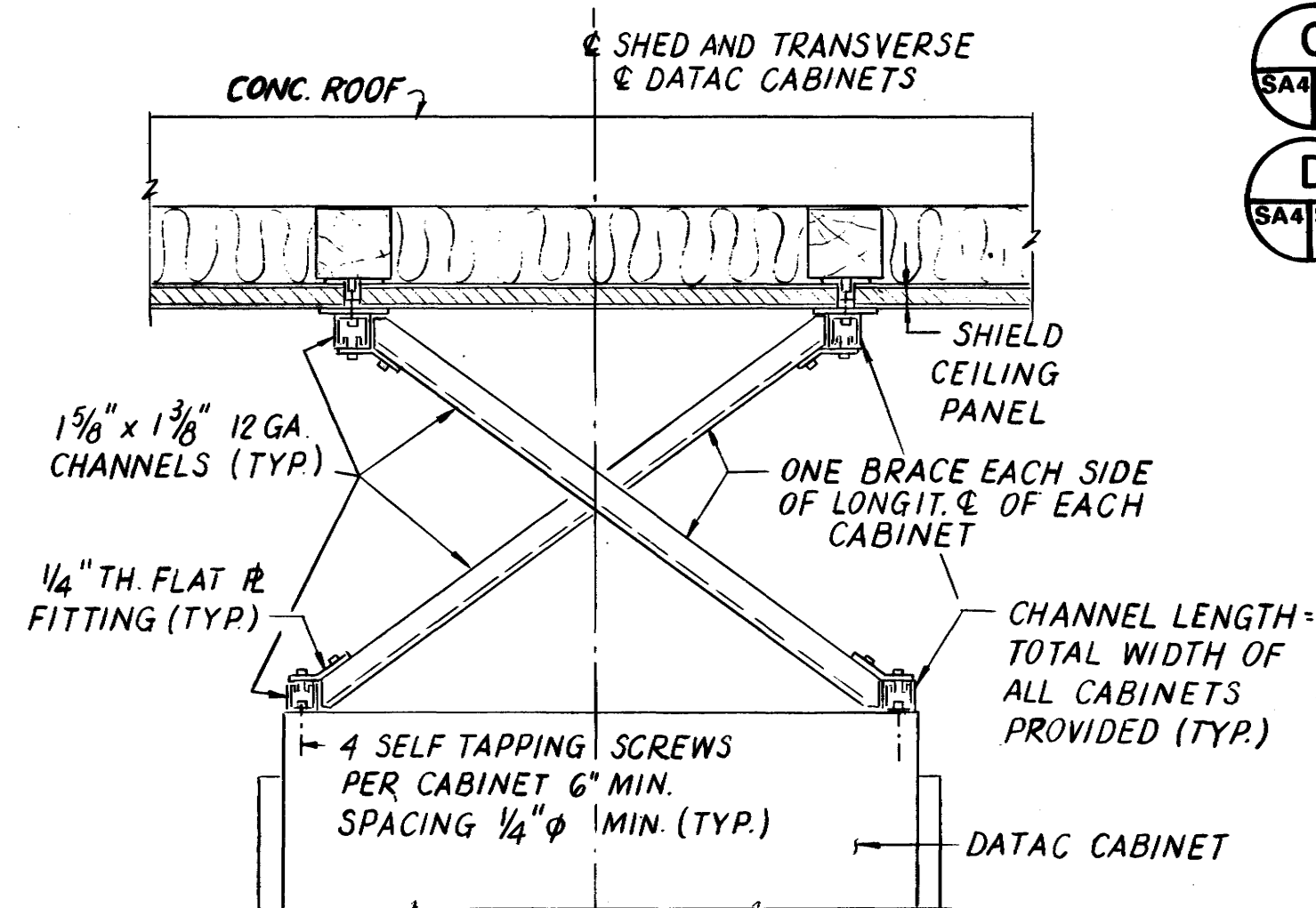
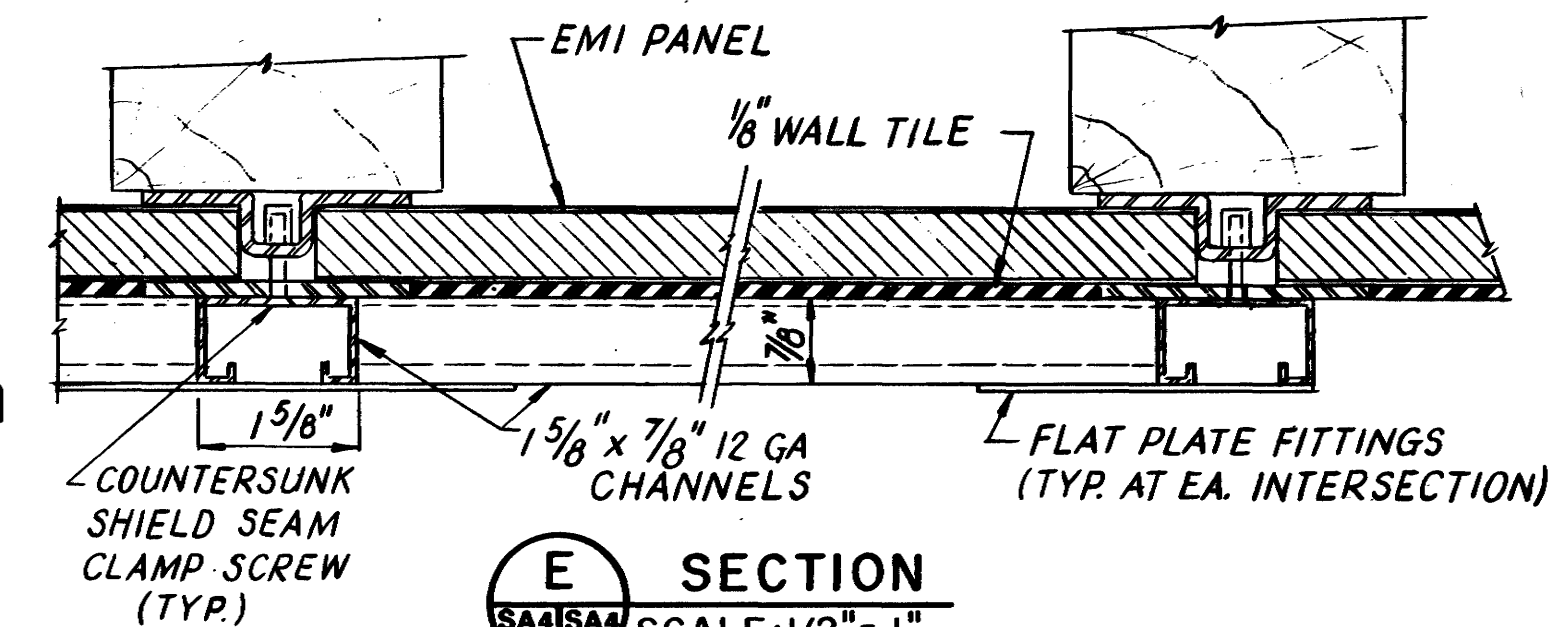
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SECTION
SCALE: 1/2" = 1"

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

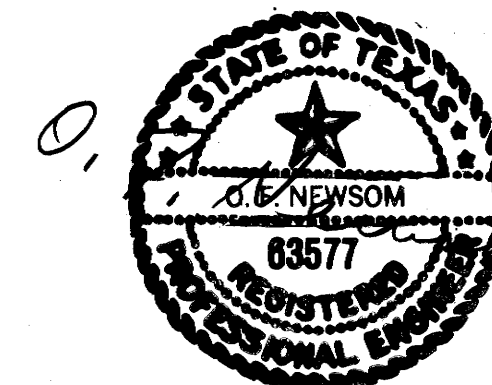
The drawings show a cross-section of the enclosure with an angle fitting and channels. The key plan shows the overall layout with callouts A, B, C, and D.



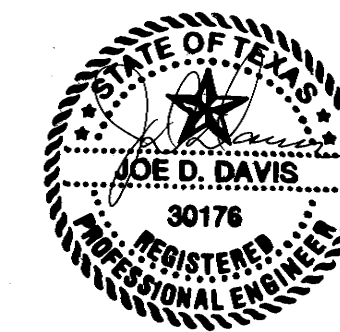
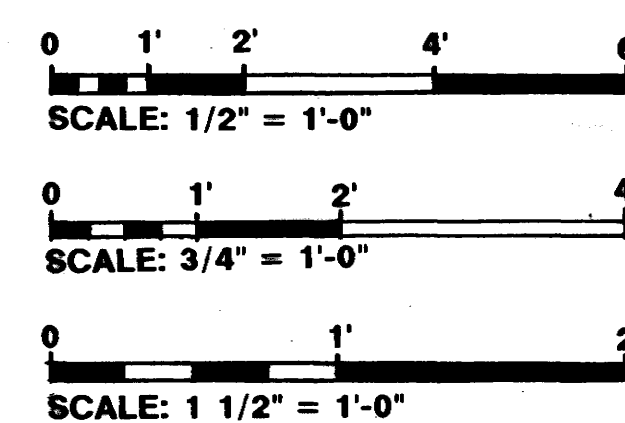
NOTE:


EQUIPMENT SUPPORT CHANNELS AND ASSOCIATED ACCESSORIES SHALL BE COMPONENTS OF THE SAME FRAMING SYSTEM. MEMBER DIMENSIONS SHOWN ARE FOR THE UNISTRUT FRAMING SYSTEM; ANALOGOUS MEMBERS OF THE SYSTEMS LISTED BELOW ARE ACCEPTABLE. SYSTEM COMPONENTS SHALL BE OF STEEL CONSTRUCTION AND HAVE A GALVANIZED FINISH OR BETTER. ACCEPTABLE SYSTEMS INCLUDE THE FOLLOWING OR EQUAL:

- A. UNISTRUT BUILDING SYSTEMS, AS MANUFACTURED BY GTE PRODUCTS CORP., WAYNE, MI.
- B. KINDORF METAL FRAMING, AS MANUFACTURED BY MIDLAND ROSS CORP., PITTSBURGH, PA.
- C. POWER-STRUT METAL FRAMING SYSTEMS, AS MANUFACTURED BY VAN HUFFEL TUBE CORP., WARREN, OH.

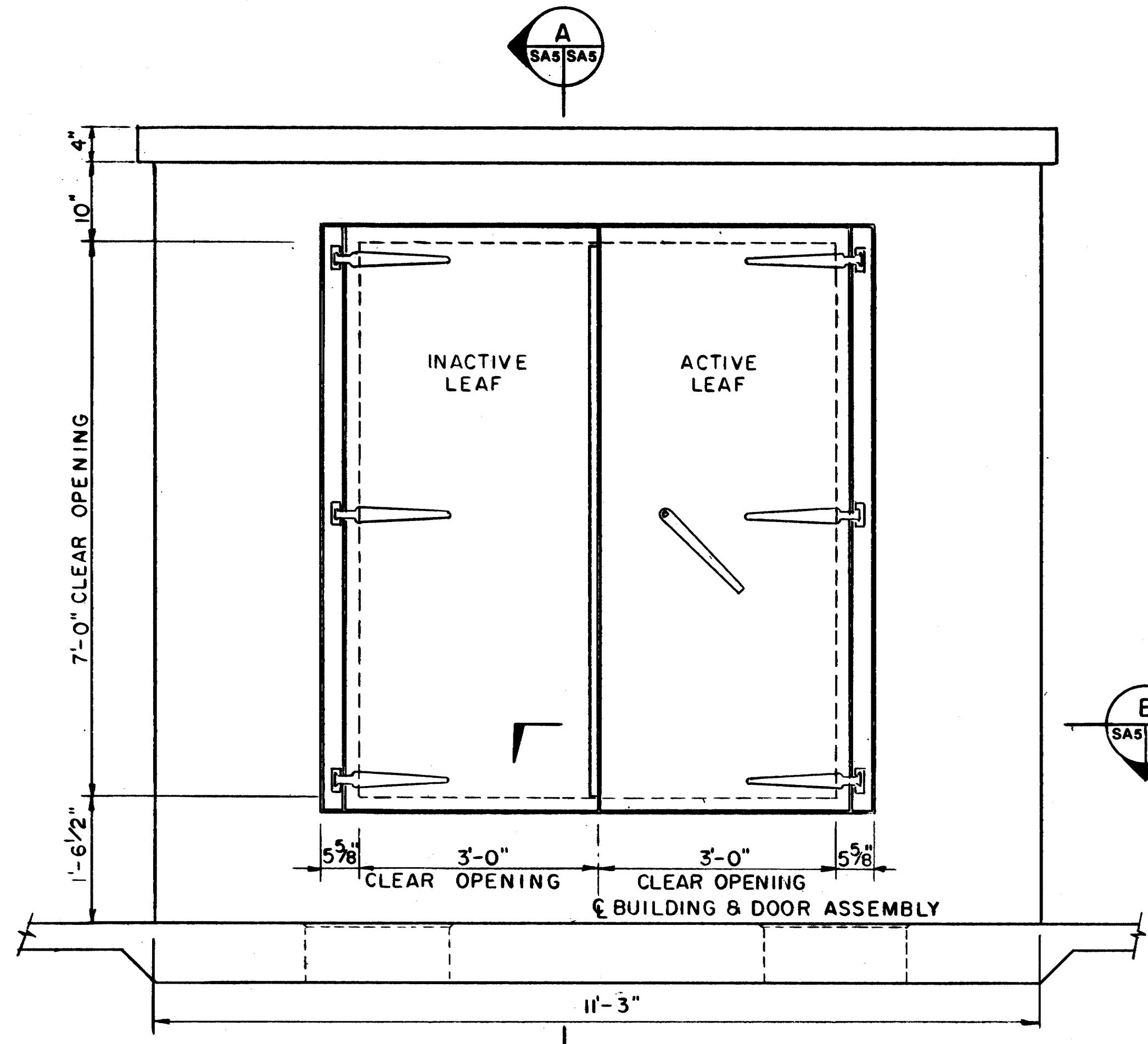


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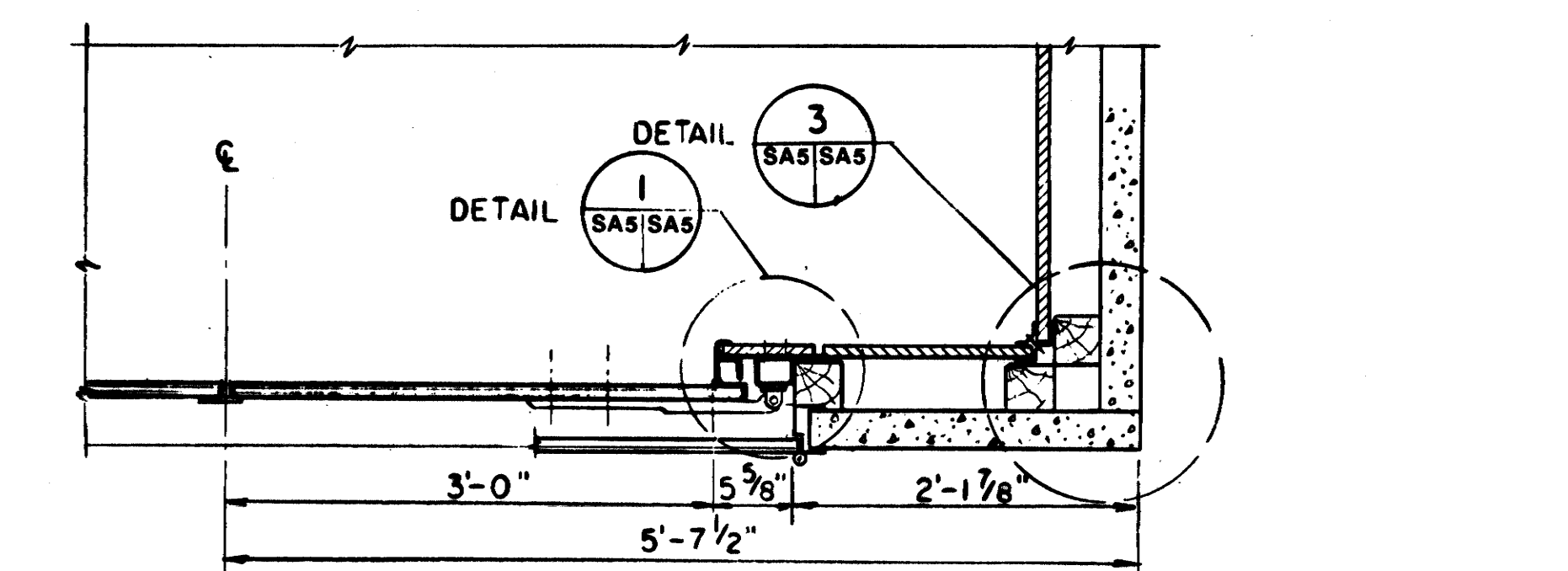


 FLUOR ENGINEERS, INC. HOUSTON DIVISION		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND CHESAPEAKE DIVISION WASHINGTON, D.C.	
DES. EP	DR. E.G.A.	CHK. JK.	
SUBMITTED BY		DATE	
TITLE: PROGRAM MGR.			
OCEAN ENGR. & CONST. PROJ. OFF. FPD-1			
ETC. <i>SA</i> <i>WLD</i> RWD <i>10</i> <i>9/6</i>			
APPROVED HEAD, FPD-1		DATE	
<i>[Signature]</i>		<i>11/27/82</i>	
APPROVED		DATE	
<i>[Signature]</i>		<i>17 APR 89</i>	
EFD FOR COMMANDER, NAVFAC			
MAGNETIC SILENCING FACILITY		NEW LONDON, CT.	
INTERIOR WALL ELEVATIONS AND CABINET SUPPORT DETAILS			
SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.	
D	80091	3050624	SA-4
SCALE: AS NOTED		CONSTR. CONTR. NO.	N62477-86-C-0103
		SPEC. 21-86-0103	SHEET 38 OF 56

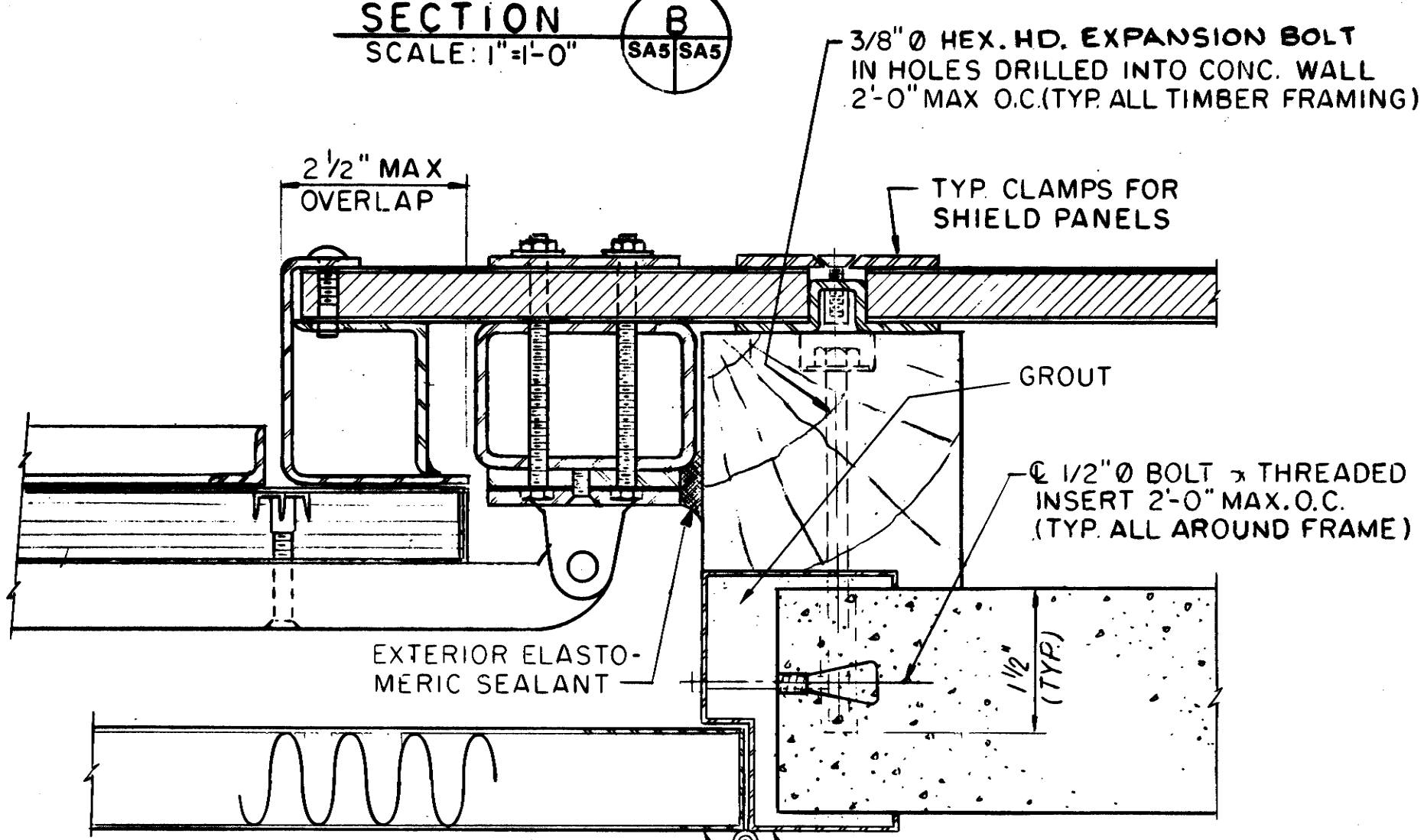
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



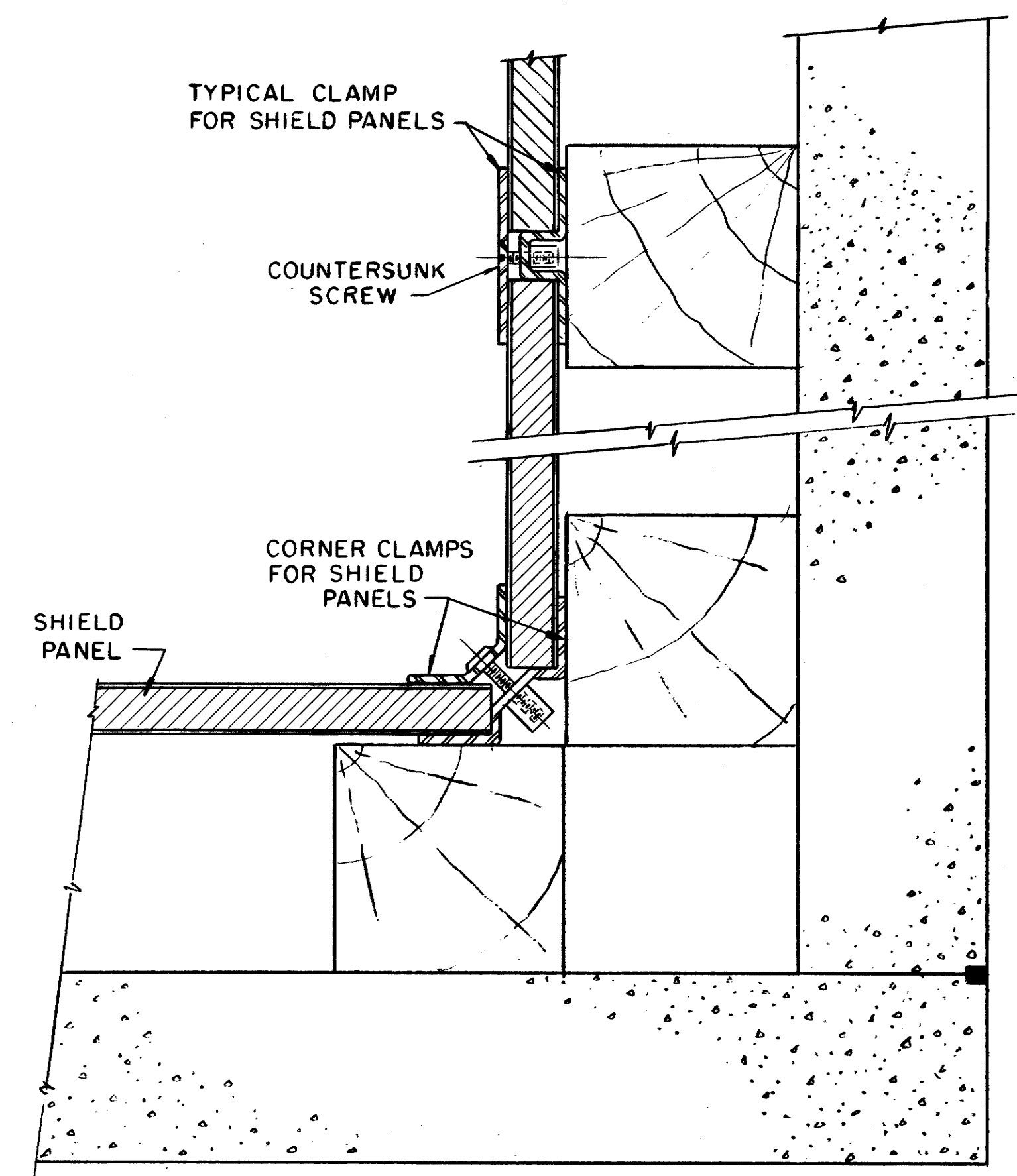
ELEVATION
SCALE: 3/4"=1'-0"



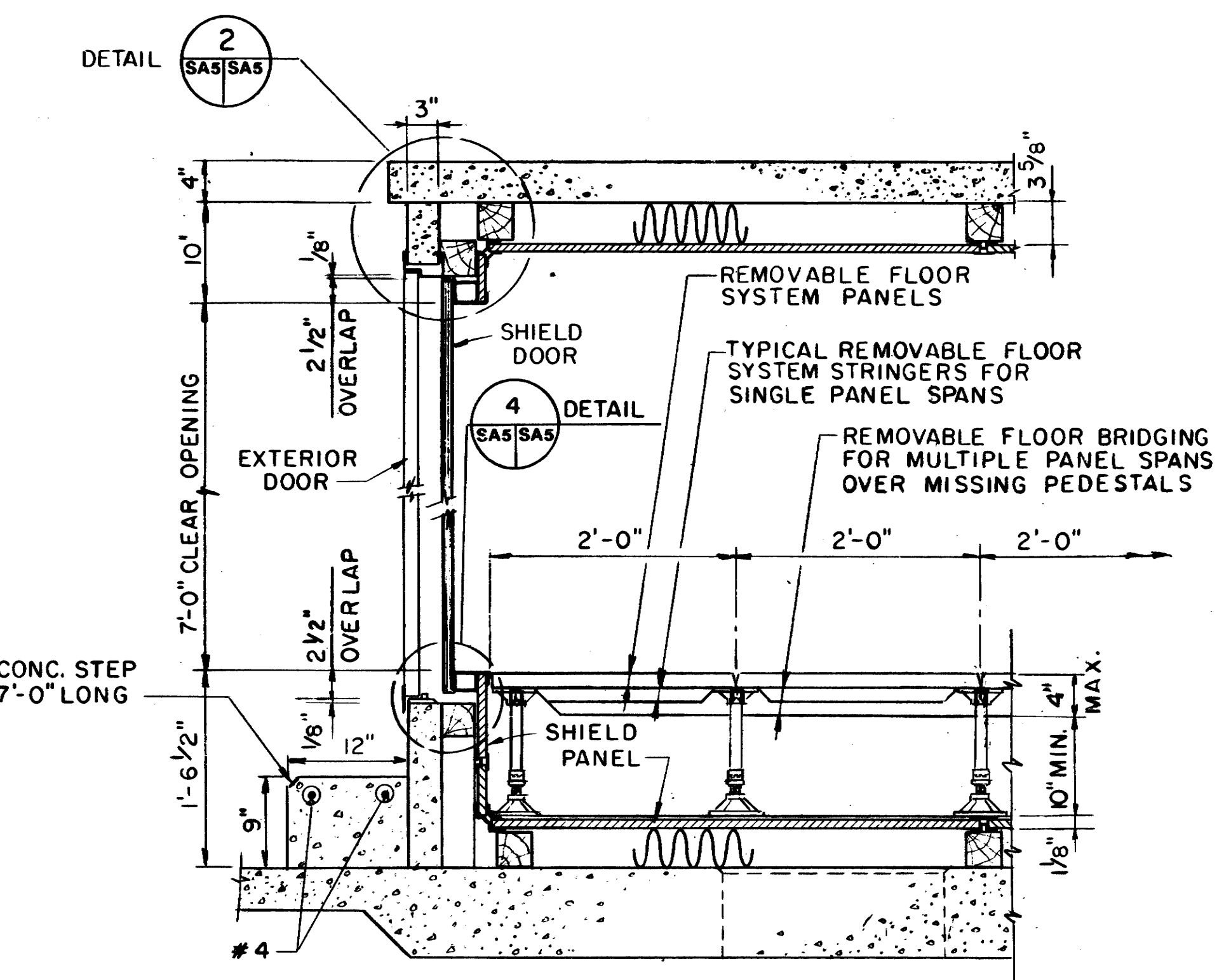
SECTION
SCALE: 1"=1'-0"



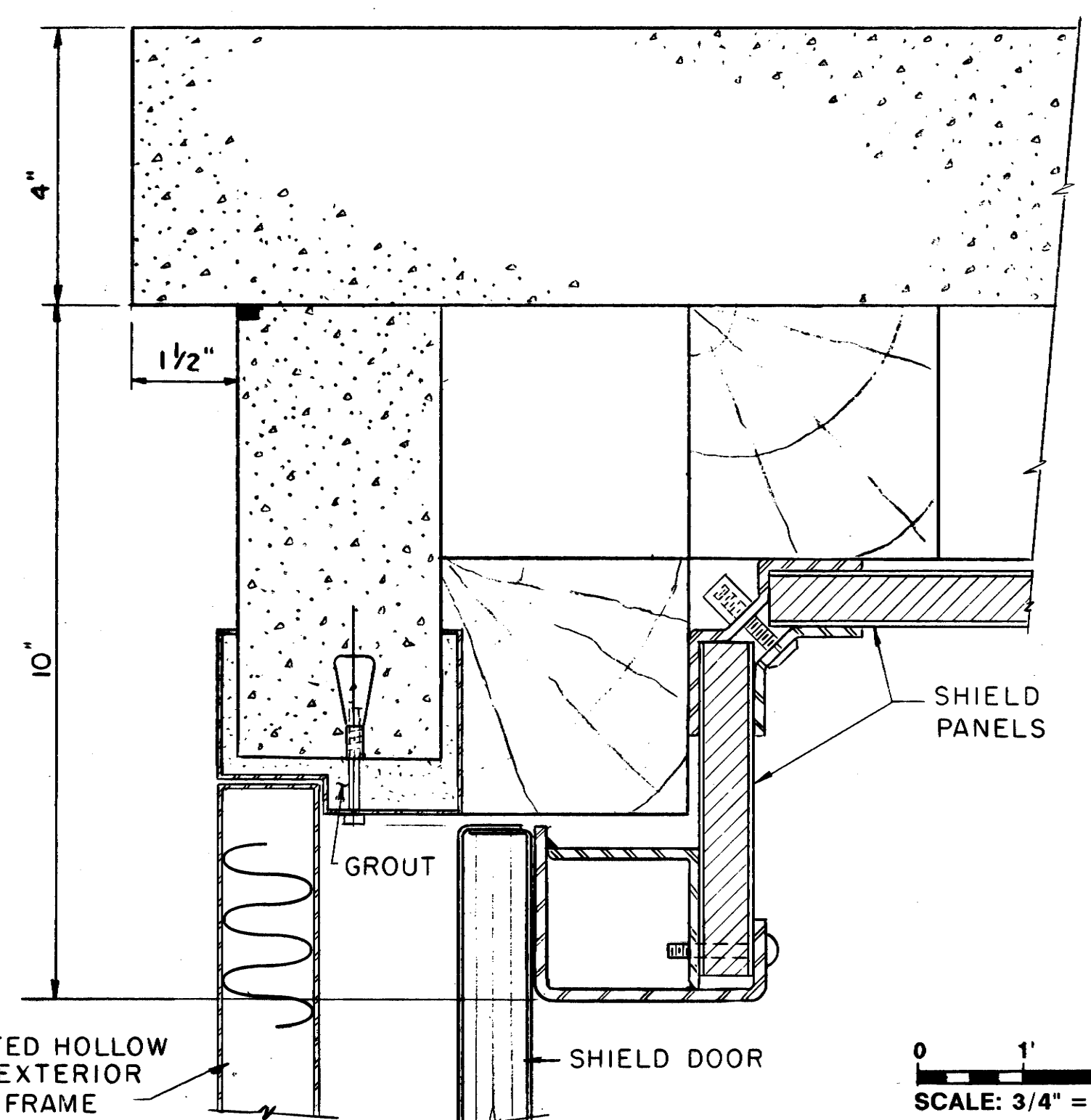
DETAIL
SCALE: 6"=1'-0"



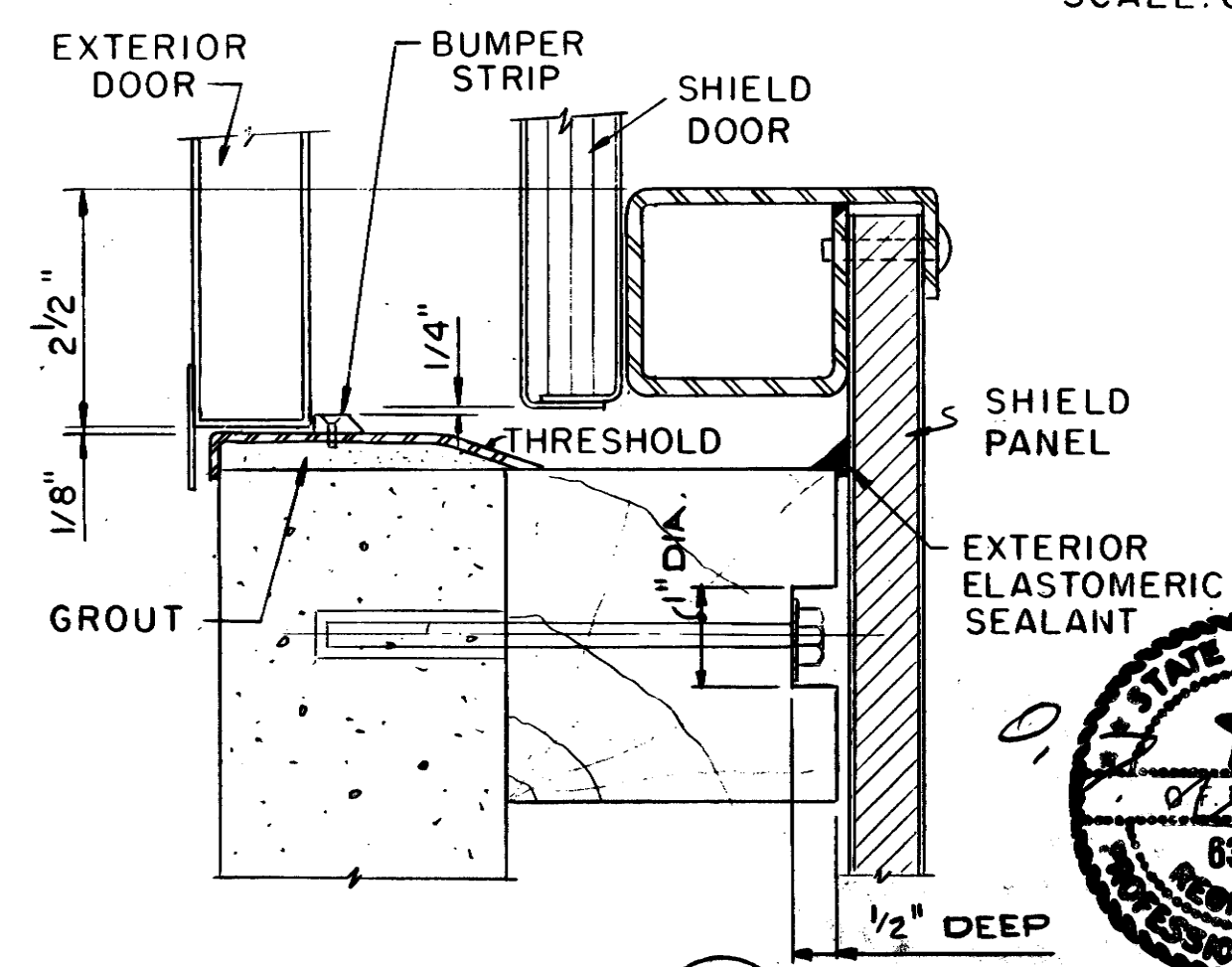
DETAIL
SCALE: 6"=1'-0"



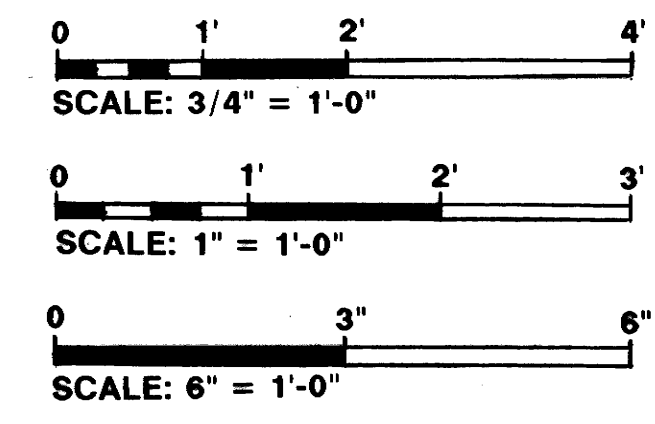
SECTION
SCALE: 1"=1'-0"



DETAIL
SCALE: 6"=1'-0"



DETAIL
SCALE: 6"=1'-0"

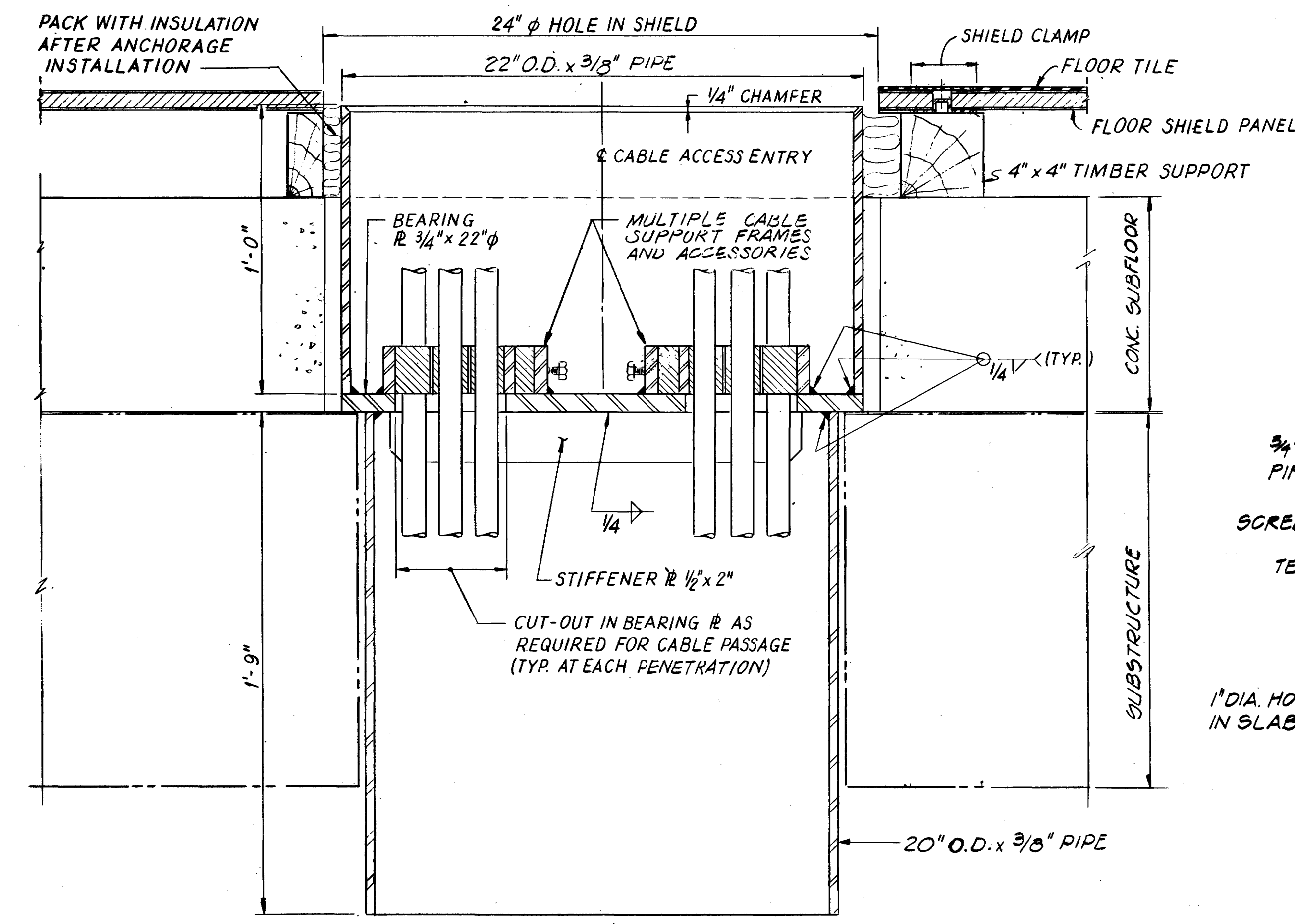
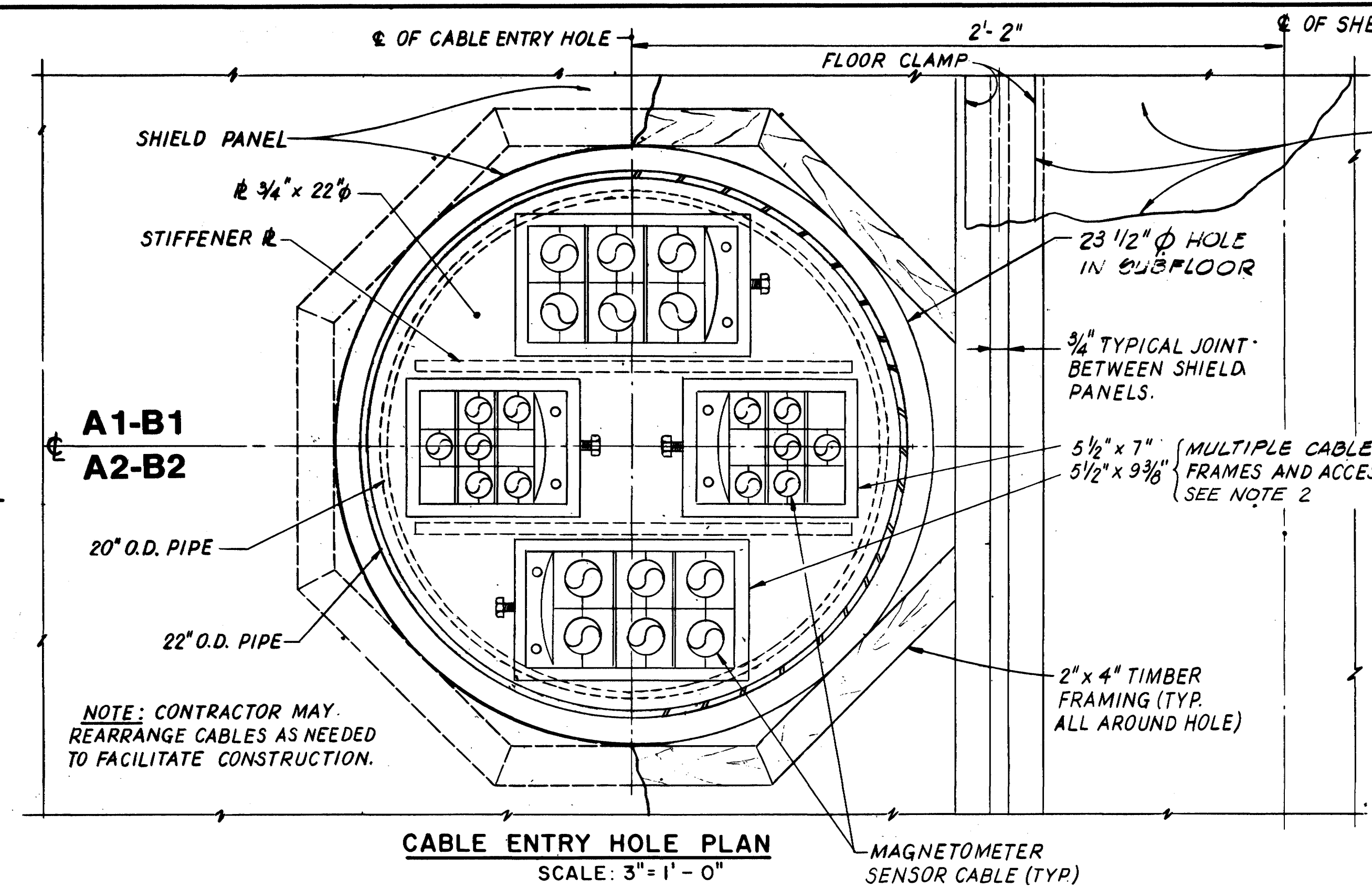


SATISFACTORY TO
ROICC
DATE 4/10/85
DATE 17 APR 85

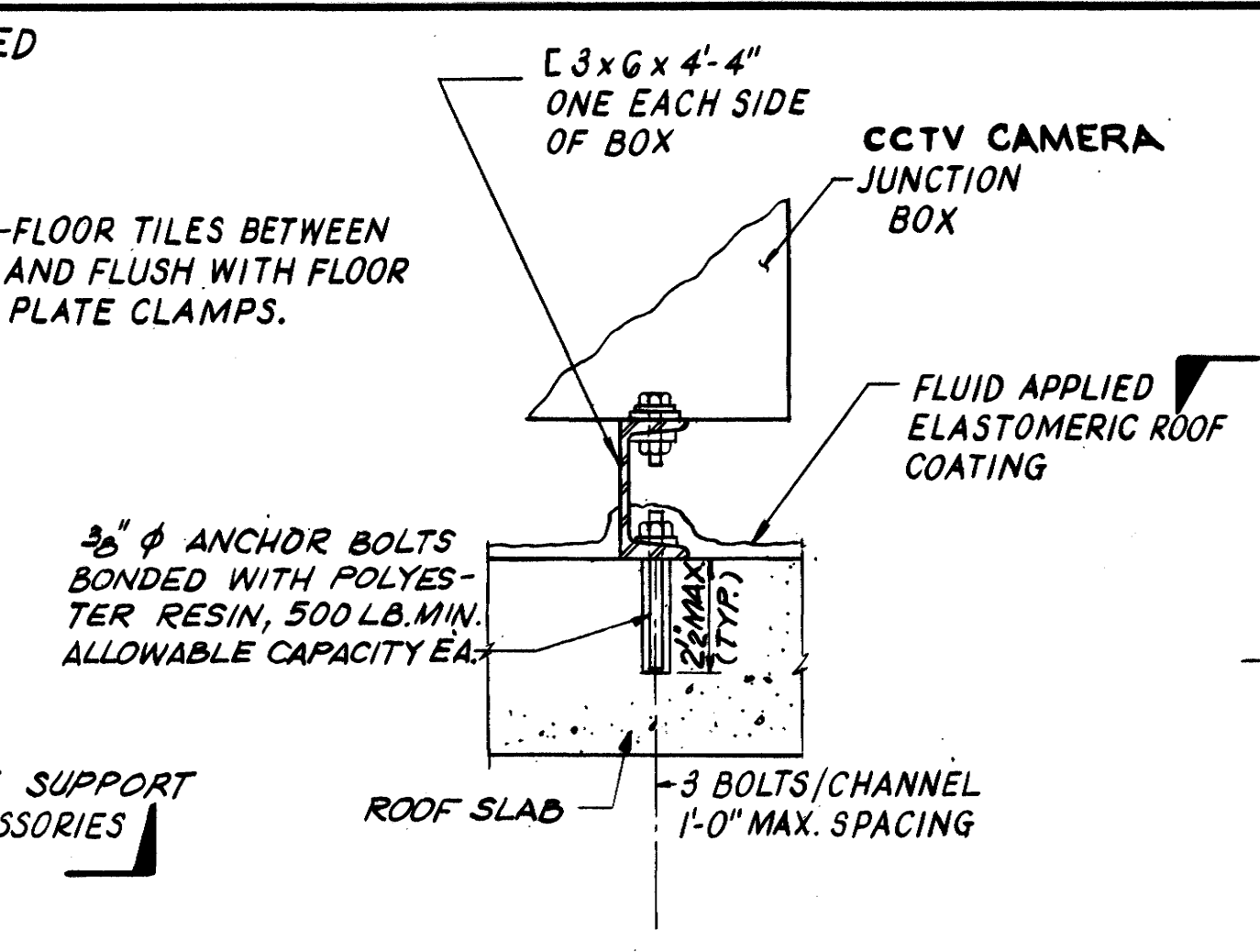
FLUOR ENGINEERS, INC.
HOUSTON DIVISION
DES. EP DR. EGP CHK. JK
SUBMITTED BY DATE
TITLE: PROGRAM MGR.
OCEAN ENGR. & CONST. PROJ. OFF. FPO-1
EIC. SA W. RD. TO W. W. W.
APPROVED HEAD FPO-1 DATE
APPROVED DATE 17 APR 85
EFD FOR COMMANDER, NAVFAC

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
CHESAPEAKE DIVISION
WASHINGTON, D.C.
MAGNETIC SILENCING FACILITY
SHIELD AND
ACCESS FLOOR DETAILS
NEW LONDON, CT.
SIZE CODE IDENT. NO. NAVFAC DRAWING NO. SA-5
D 80091 3050625
CONSTR. CONTR. NO. N62477-86-C-0103
SPEC. 21-86-0103 SHEET 39 OF 56

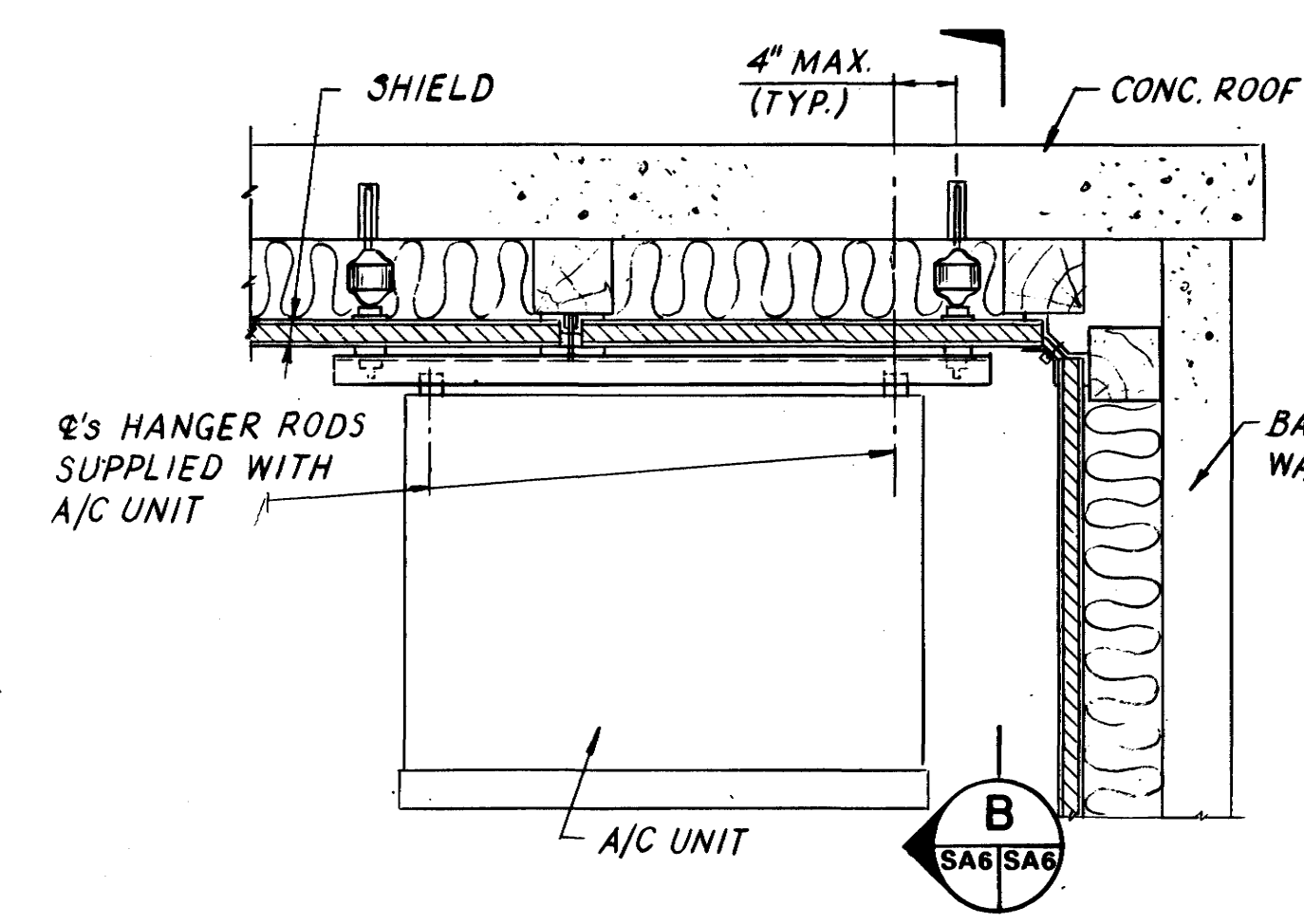
WARNING: DRAWING MAY BECOME DISTORTED DURING REDUCTION OR OTHER REPRODUCTION PROCESS. USER IS CAUTIONED AGAINST SCALING.



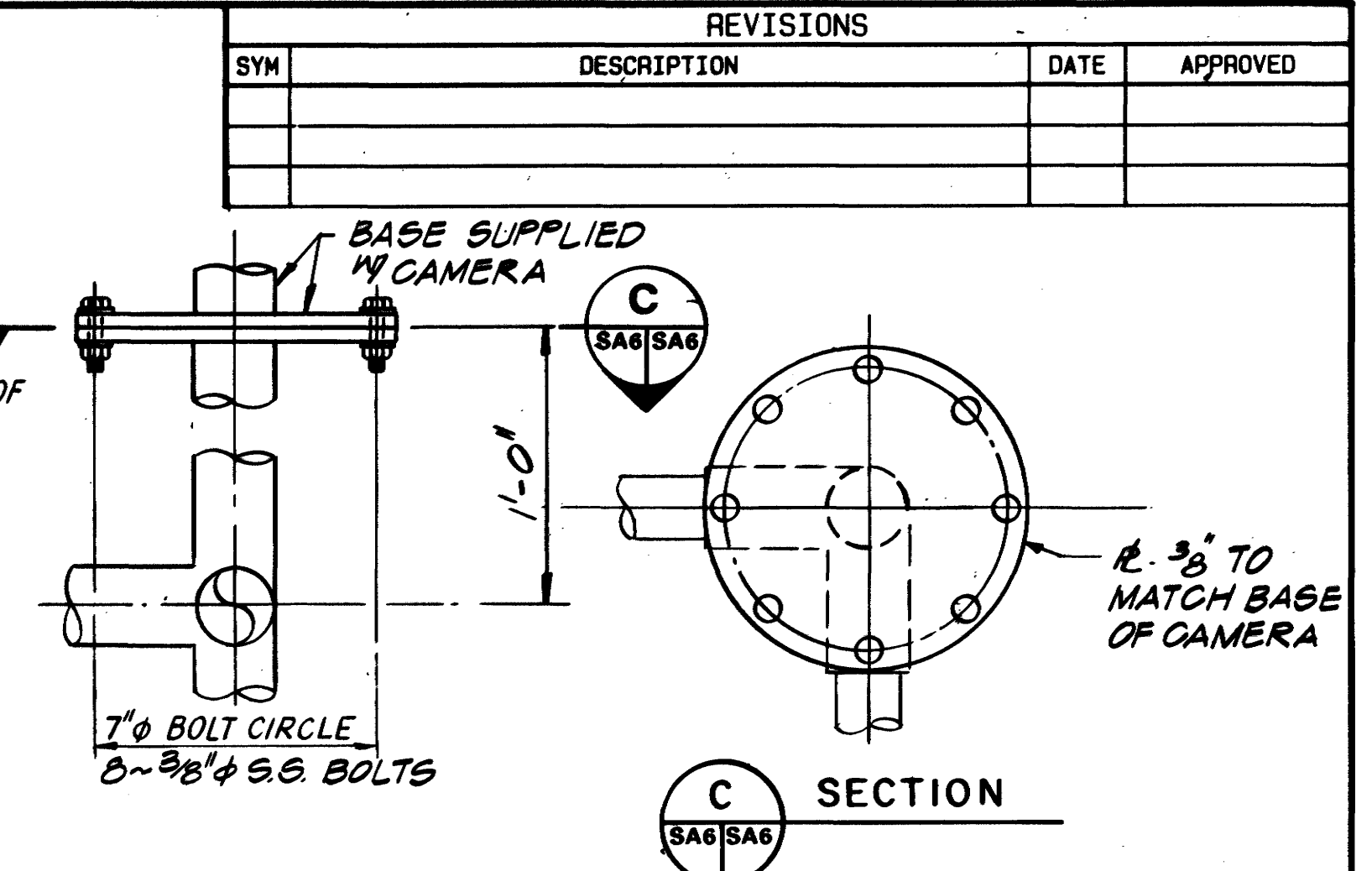
A SECTION
SCALE: 3" = 1'-0"



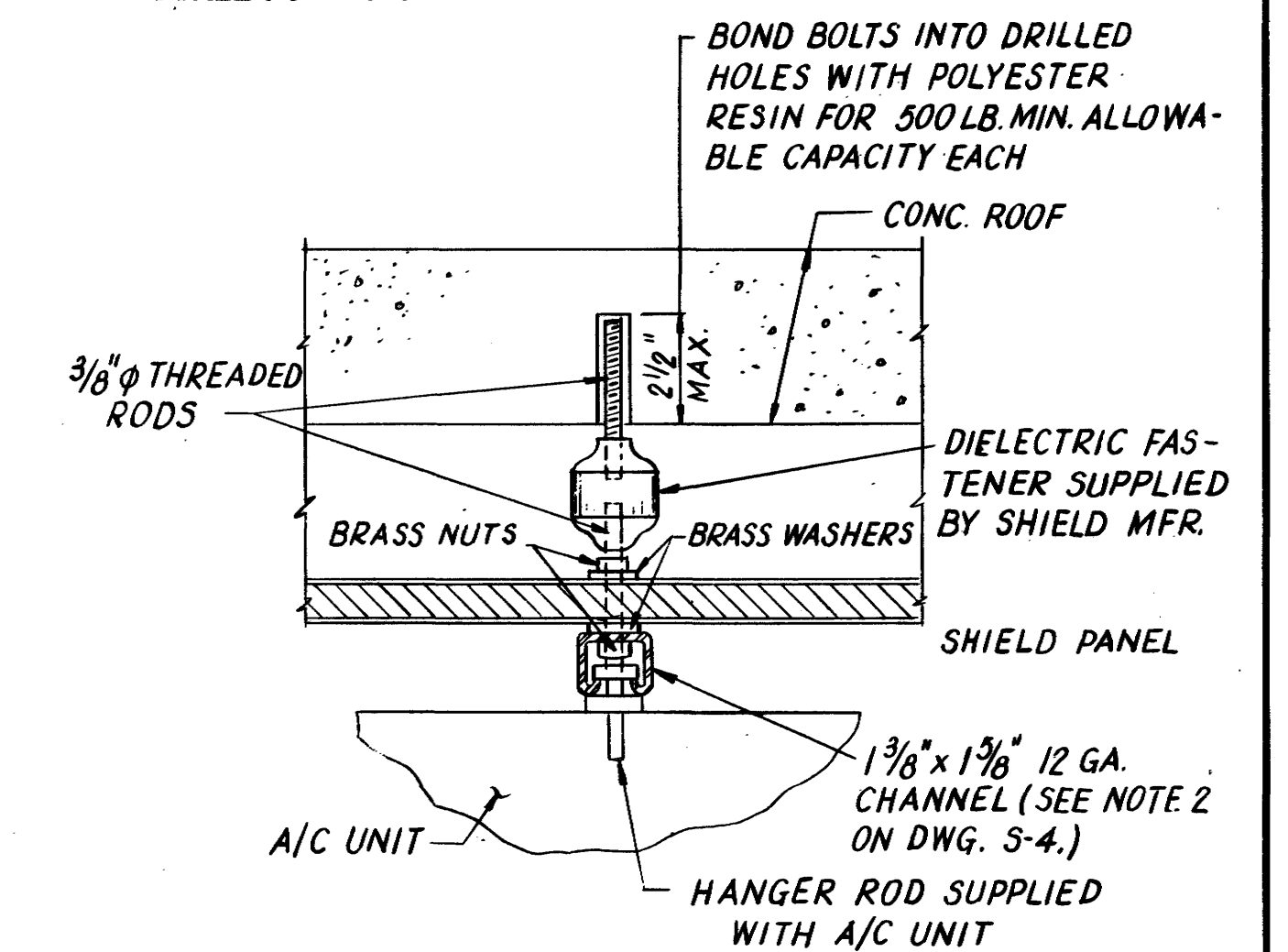
MOUNTING DETAIL
CCTV CAMERA JUNCTION BOX
SCALE: 1 1/2" = 1'-0"



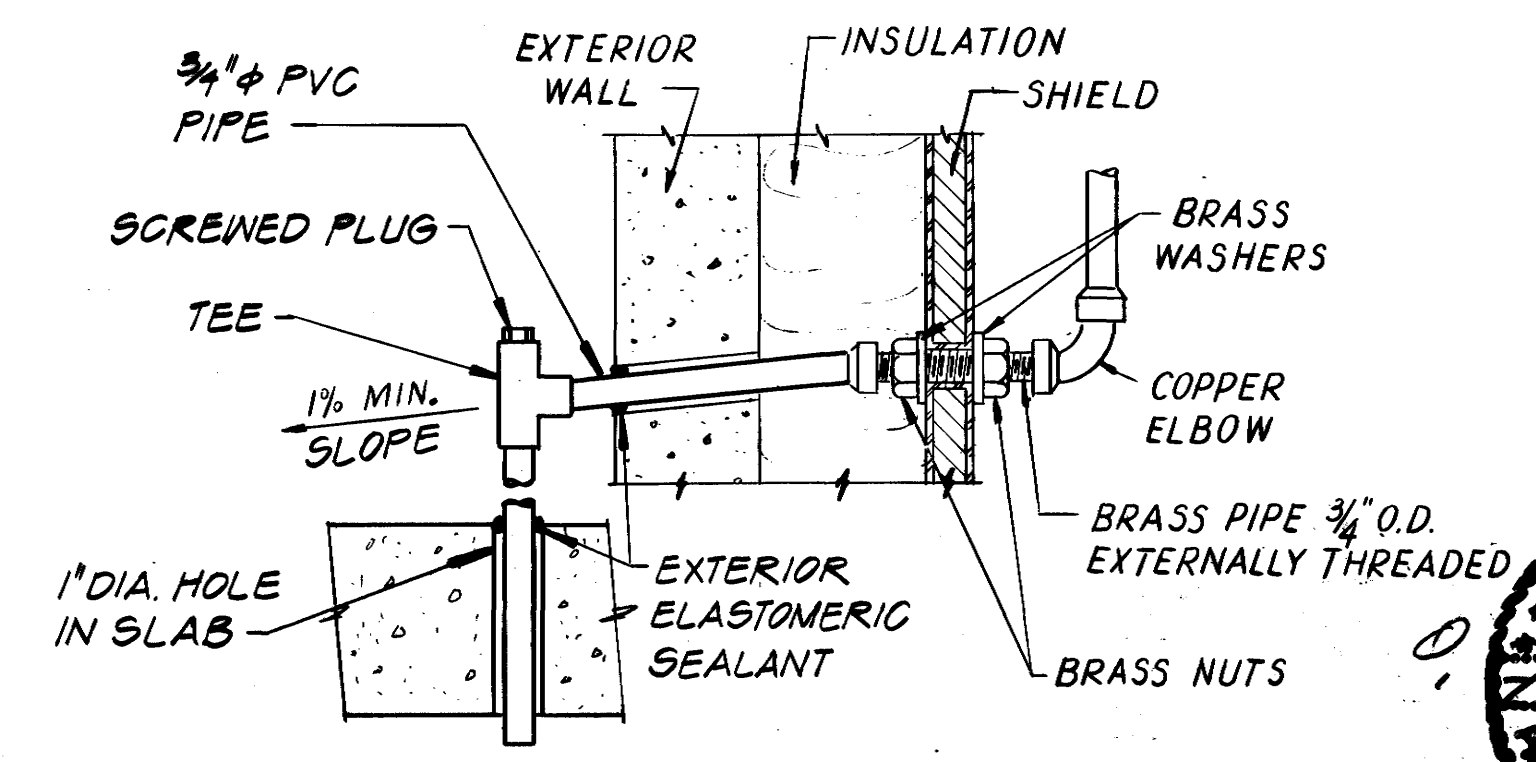
A/C MOUNTING DETAIL
SCALE: 1 1/2" = 1'-0"



ATTACHMENT DETAILS FOR CCTV CAMERA
SCALE: 3" = 1'-0"



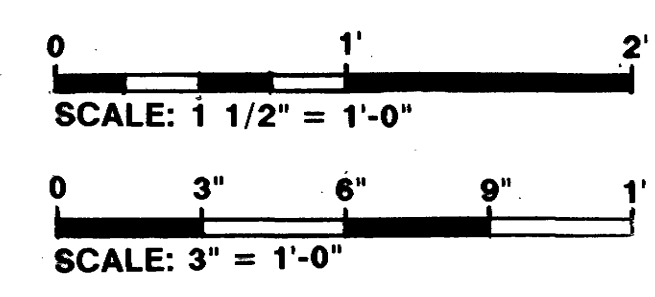
B SECTION
SCALE: 3" = 1'-0"



CONDENSATE DRAIN DETAIL
SCALE: 3" = 1'-0"

- NOTES:**
1. ANCHORAGE UNITS SHALL BE PROVIDED FOR ALL FOUR CABLE ENTRY HOLES. AT INACTIVE HOLES, MODIFY ANCHORAGE UNITS BY OMITTING ASSOCIATED CUT-OUTS IN BEARING PLATE.
 2. THE DESIGN OF CABLE SUPPORT / PENETRATIONS AND CABLE ARRANGEMENT IS BASED ON THE DIMENSIONS OF A MULTIPLE CABLE SUPPORT SYSTEM AS SHOWN. IF A UNIT WITH DIFFERING DIMENSIONS IS PROVIDED BY THE CONTRACTOR, THEN IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY MODIFICATIONS.

"WARNING: DRAWING MAY BECOME DISTORTED DURING REDUCTION OR OTHER REPRODUCTION PROCESS. USER IS CAUTIONED AGAINST SCALING."

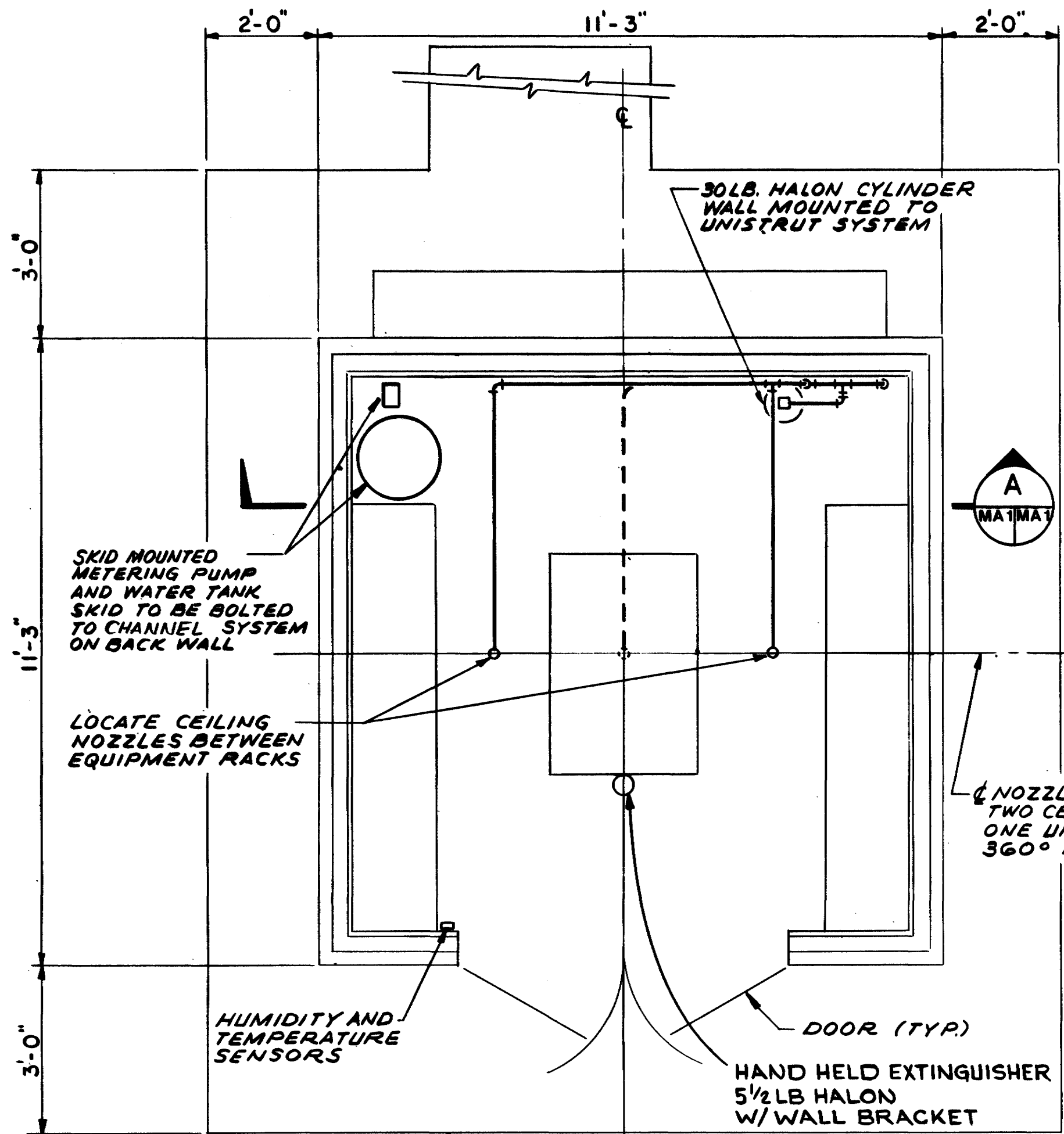


SATISFACTORY TO ROICC DATE 4/18/83
SATISFACTORY TO CONNAVSEASYSOM DATE

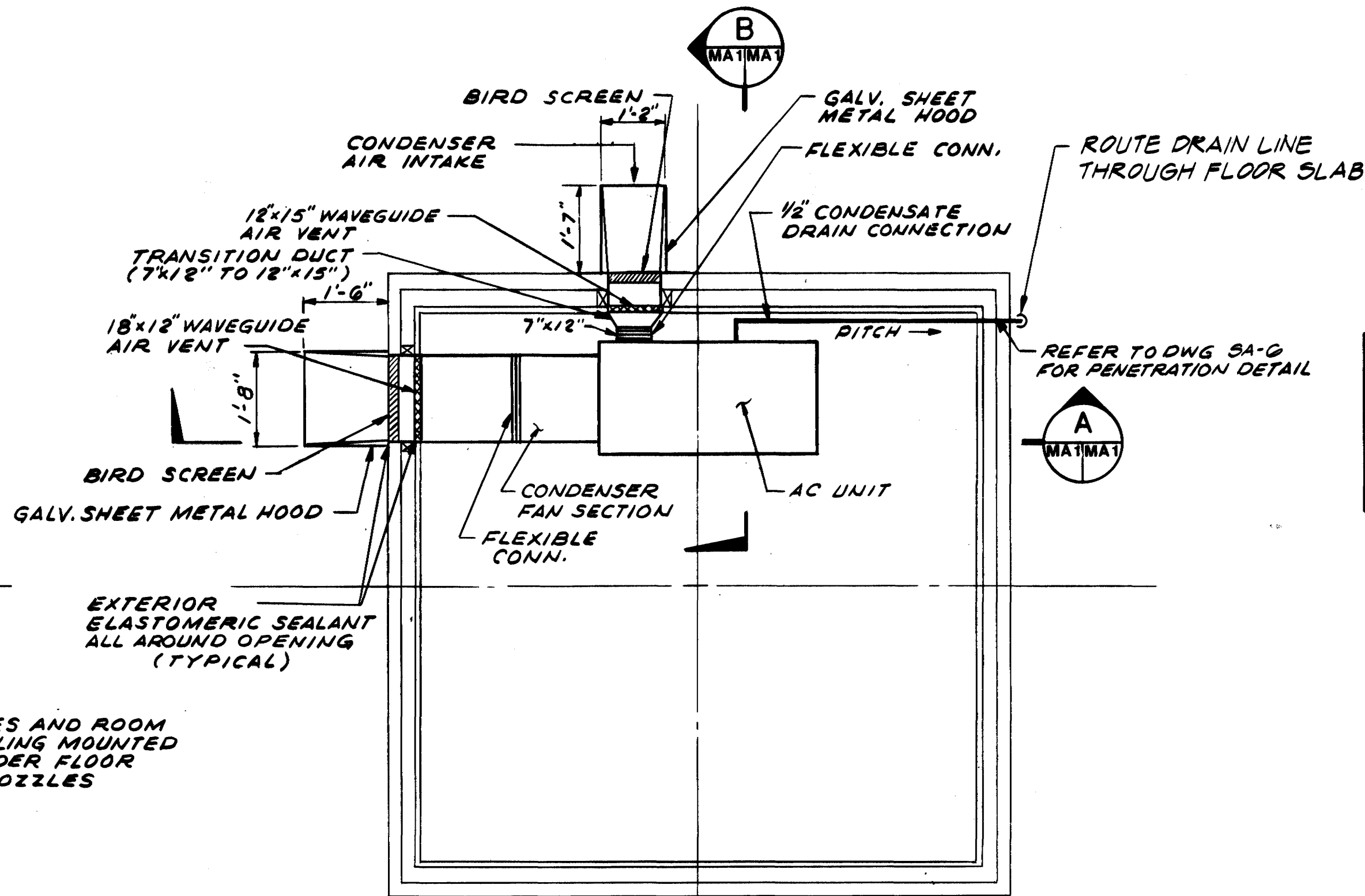
FLUOR ENGINEERS, INC.
HOUSTON DIVISION
DES. EP. DR. E.G.R. CHK. JK. DATE
SUBMITTED BY
TITLE: PROGRAM MFR.
OCEAN ENGR. & CONST. PROJ. OFF. FPD-1
E.C. 21 APR 83
APPROVED HEAD FPD-1 DATE 17 APR 83
APPROVED R.E. WATSON DATE 17 APR 83
EFD FOR COMMANDER, NAVFAC

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
CHESAPEAKE DIVISION
WASHINGTON, D.C.
MAGNETIC SILENCING FACILITY NEW LONDON, CT.
CABLE ANCHORAGE AND MISCELLANEOUS DETAILS
SIZE CODE IDENT. NO. NAVFAC DRAWING NO. SA-6
D 80091 3050626
CONSTR. CONTR. NO. N62477-86-C-0103
SCALE AS NOTED SPEC. 21-86-0103 SHEET 40 OF 56

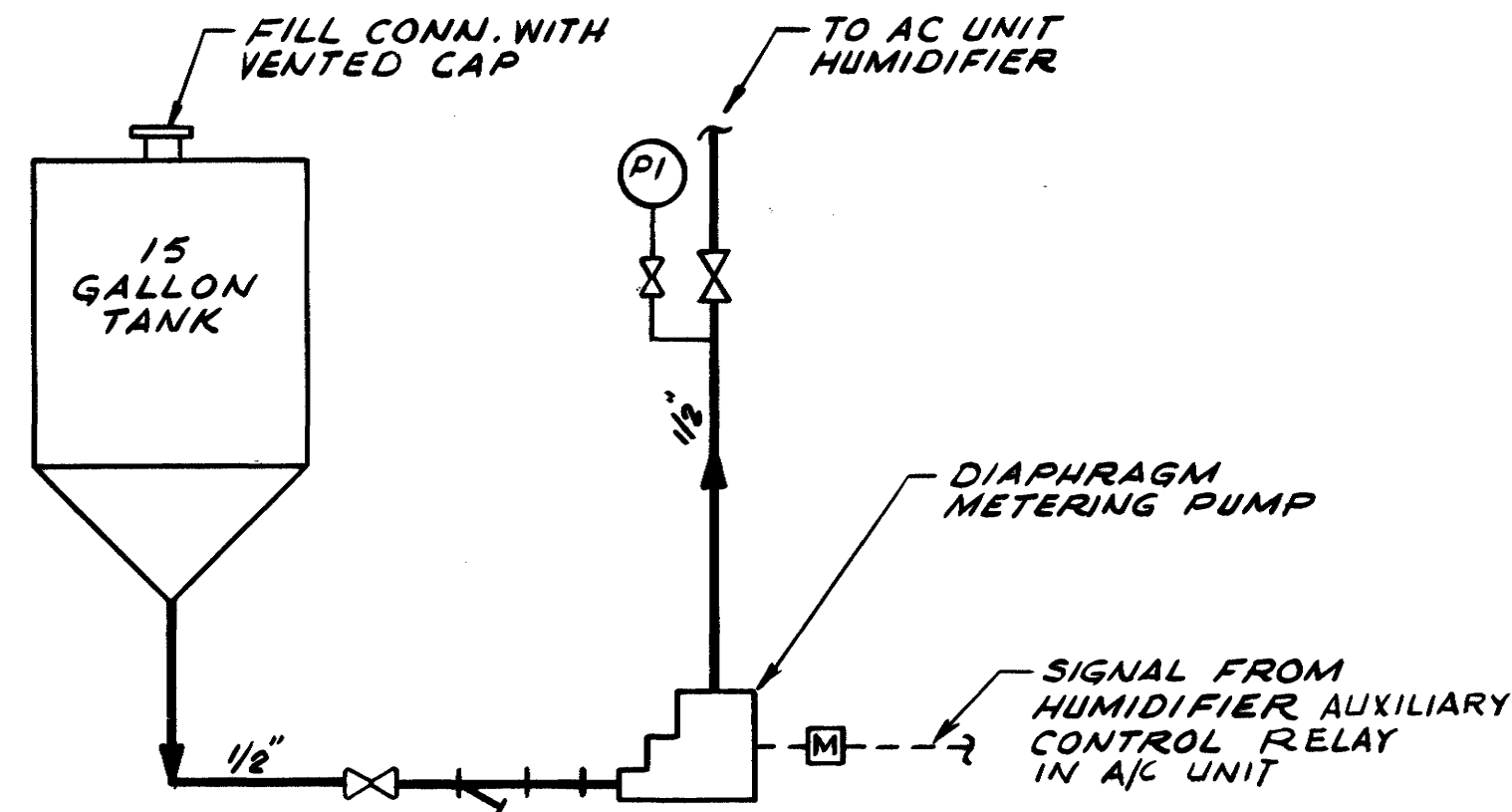
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



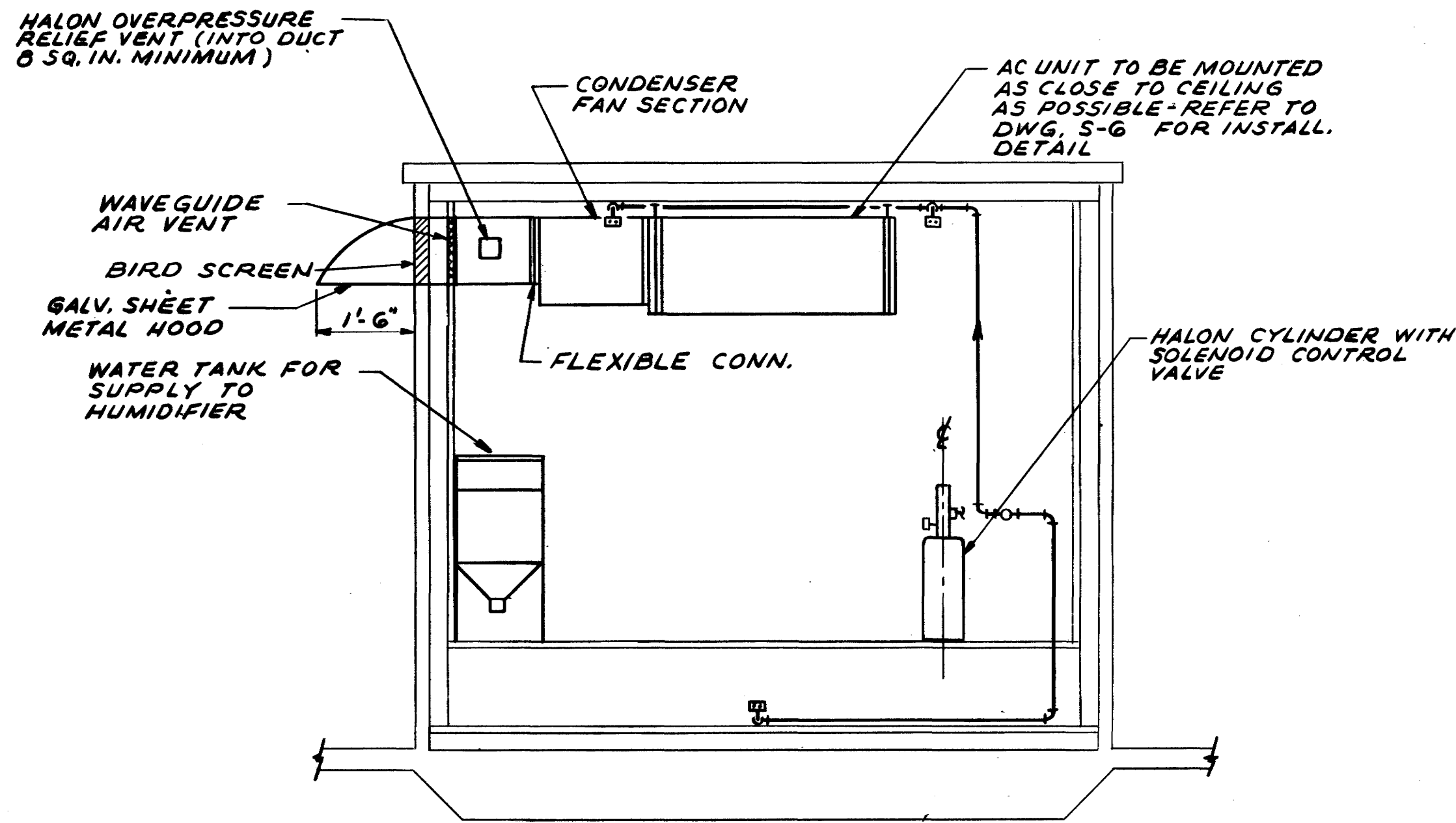
FLOOR PLAN
SCALE: 1/2"=1'-0"



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



FLOW DIAGRAM
WATER FEED TO HUMIDIFIER
SCALE: NONE

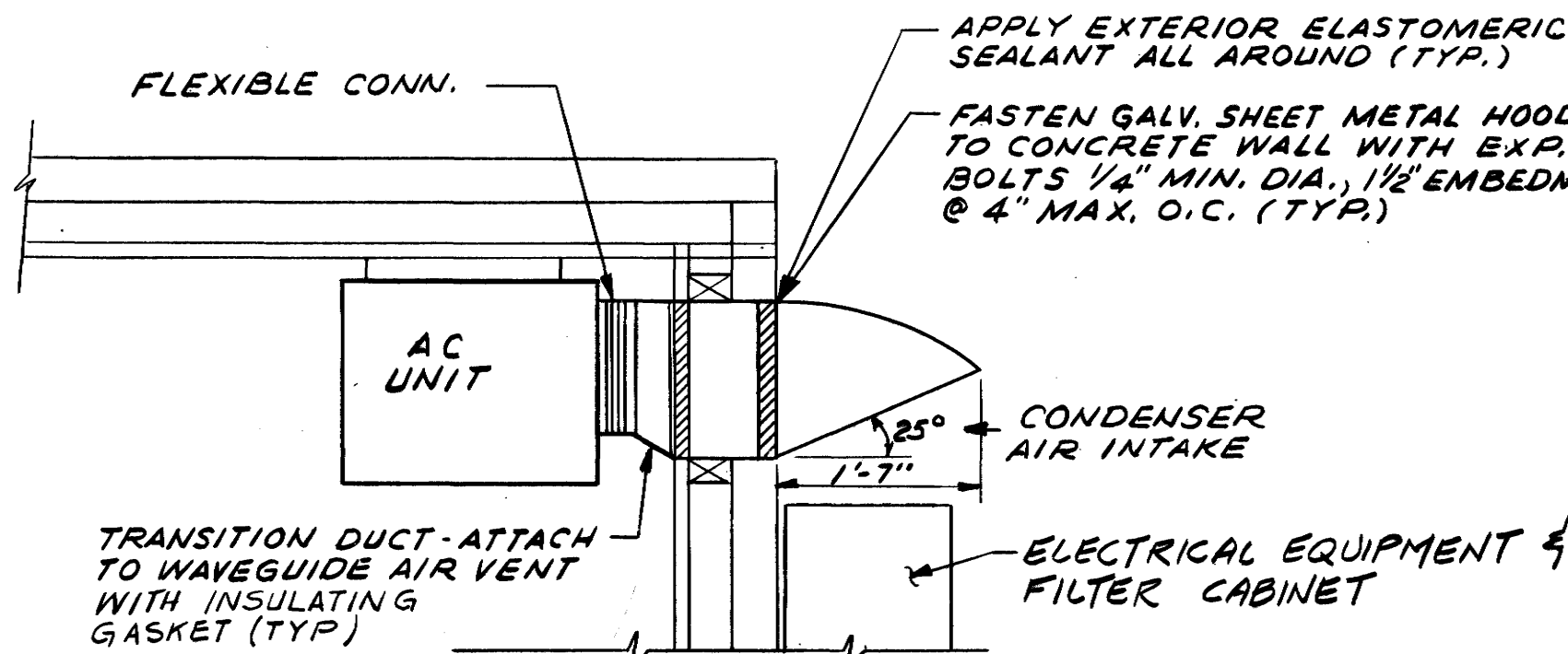


A SECTION
SCALE: 1/2"=1'-0"

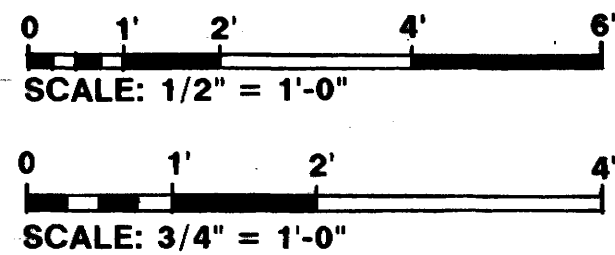
ENVIRONMENTAL CONTROL (A/C UNIT) UNIT PERFORMANCE DATA																	
CLG. CAP. @ 75°F EDB, 62.5°F EWB BTU/HR		EVAP. FAN PERFORMANCE				COND. FAN PERFORMANCE				FILTER (THROWAWAY)		ELECT. REHEAT & HUMIDIFIER			POWER REQ'S		
		TOTAL	SENS.	CFM	MTR. HP	RPM	DRIVE	CFM	MTR. HP	RPM	AVAIL. EXT. S.P.	QTY.	SIZE	REHEAT CAP. (KW)	NO. STAGES	HUMID. CAP. KW (LB/HR)	
		16000	14000	700	1/4	1070	DIRECT	1500	1/2	1125	0.5 IWG	1	20x20x1	4.43	1	0.5 (2.0)	230/1φ 208/3φ

SEE NOTE 2

METERING PUMP DESIGN REQUIREMENTS									
FLUID	TEMP.	SUCT. COND.	DESIGN DISCH.	PRESS.	CAP. REQUIRED	LOCAL STROKE ADJUST.	V	Ø	H ₂
WATER	50°-90°F	FLOODED	15 PSIG		1.5 GPH	YES	115	1	60



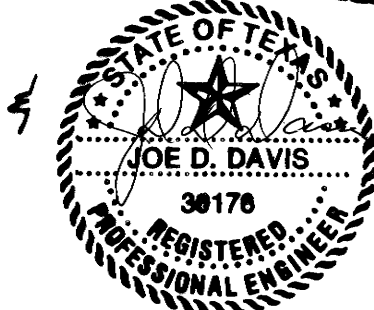
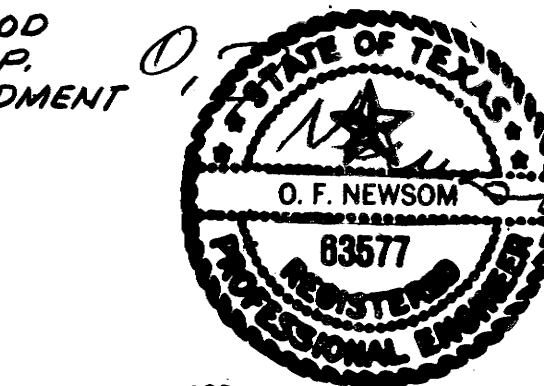
B SECTION
SCALE: 3/4"=1'-0"



NOTES:

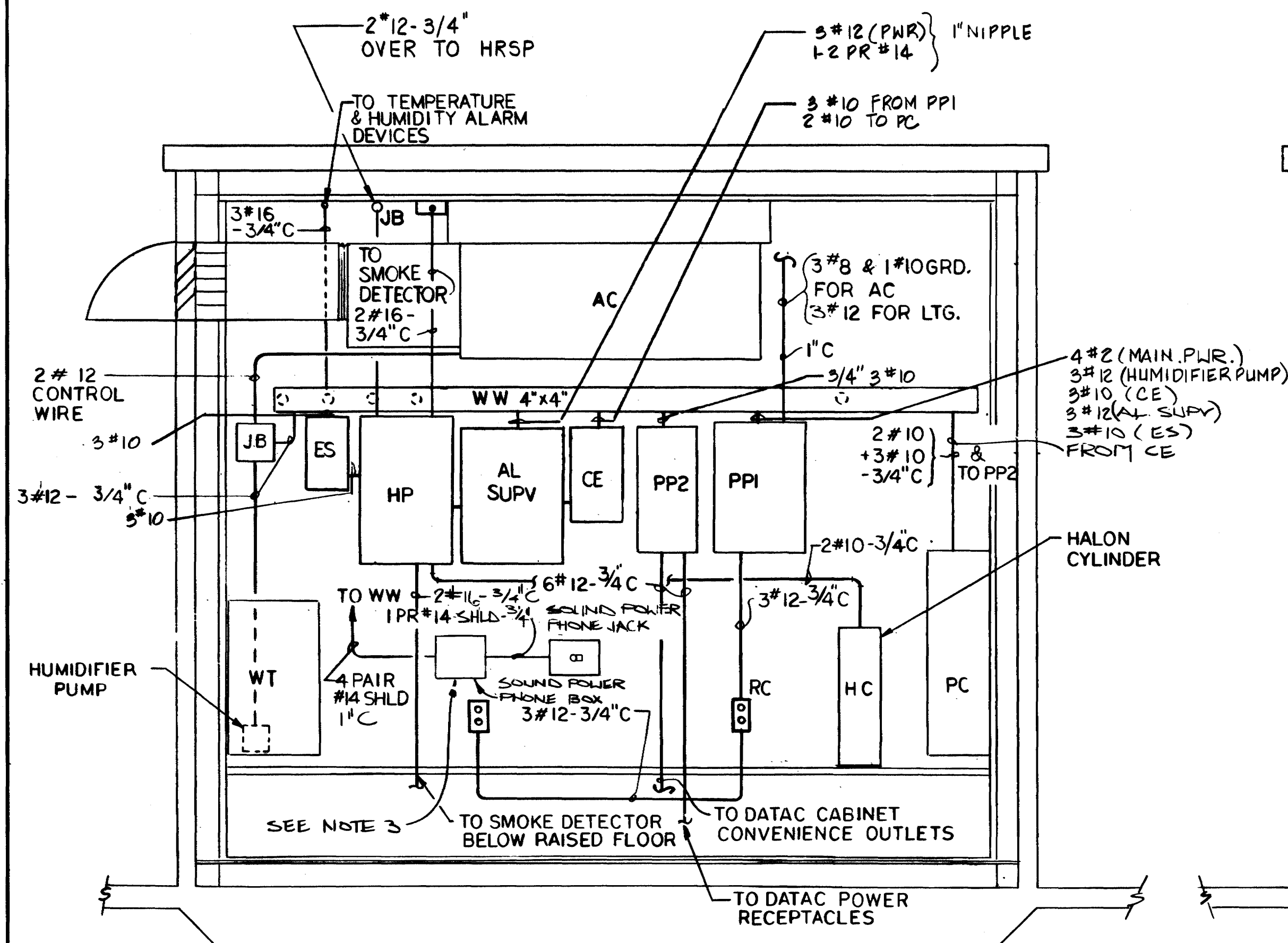
- HALON PIPING AND NOZZLE LOCATIONS ARE SCHEMATIC. SYSTEM SUPPLIER SHALL DETERMINE PIPE SIZES AND ROUTING, TO PROVIDE BALANCED DISCHARGE IN ROOM AND UNDER FLOOR SPACE ACCORDING TO SPECIFICATION 15305.
- AC UNIT SHALL BE PROVIDED AS FOLLOWS:
208V, 3 PHASE - FOR DCS WITH 3 PHASE POWER DISTRIBUTION
230V, 1 PHASE - FOR DCS WITH 1 PHASE POWER DISTRIBUTION

"WARNING: DRAWING MAY BECOME DISTORTED DURING REDUCTION OR OTHER REPRODUCTION PROCESS. USER IS CAUTIONED AGAINST SCALING."

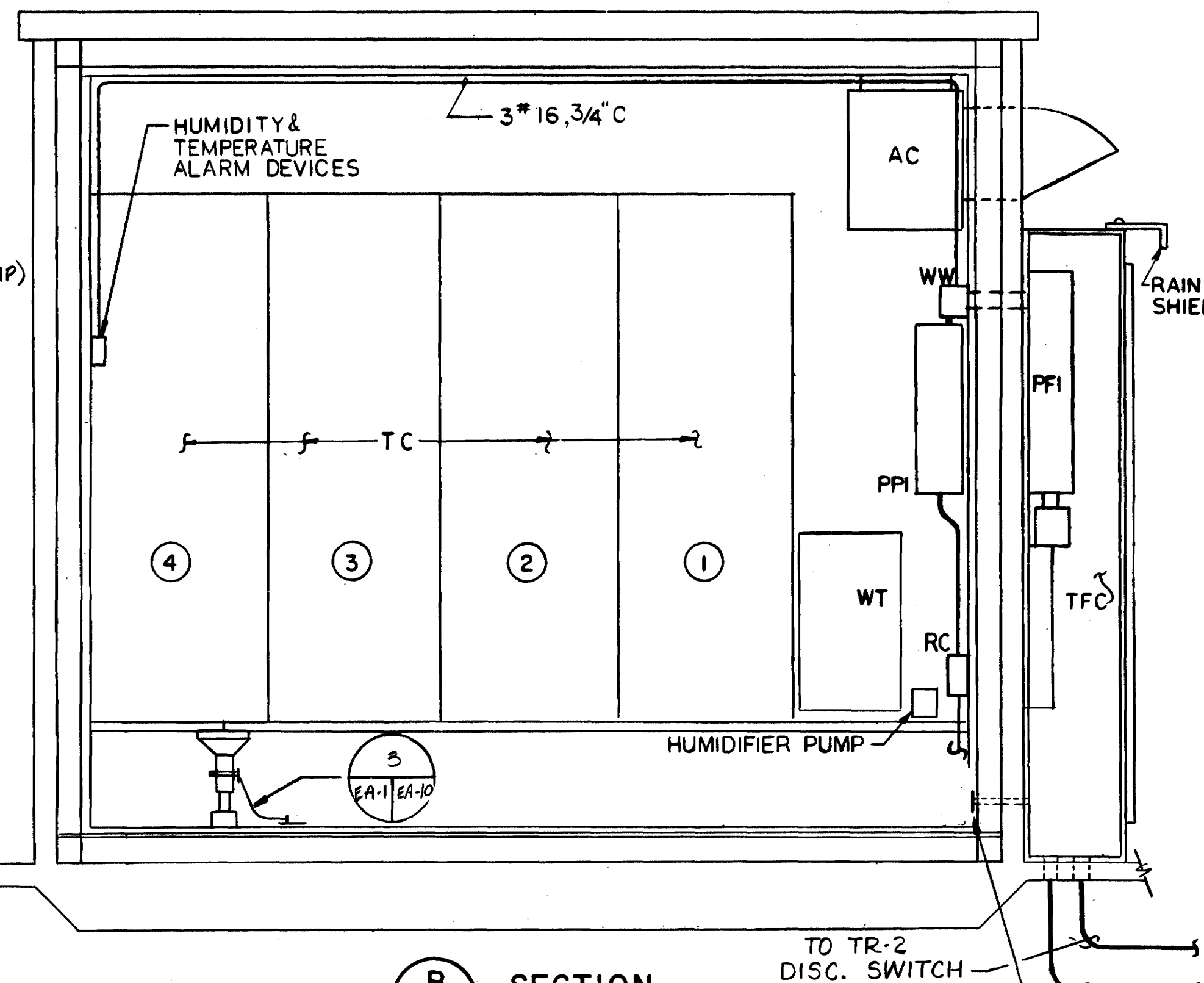


FLUOR ENGINEERS, INC. HOUSTON DIVISION		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND CHESAPEAKE DIVISION WASHINGTON, D.C.	
DES. A.T. SUBMITTED BY OCEAN ENGR. & CONST. PROJ. OFF. FPO-1 ETC. <i>[Signature]</i>	DR. J.S.R. CHK. J.M. DATE <i>[Signature]</i>	MAGNETIC SILENCING FACILITY NEW LONDON, CT.	
TITLE: PROGRAM MGR. APPROVED HEAD FPO-1 DATE: 17 APR 89		HVAC AND FIRE PROTECTION SYSTEMS	
APPROVED DATE: 17 APR 89 EFD FOR COMMANDER, NAVFAC		SIZE: D CODE IDENT. NO.: 80091 CONSTR. CONTR. NO.: N62477-86-C-0103 SPEC. 21-86-0103	NAVJAC DRAWING NO.: 3050627 MA-1 SHEET 41 OF 56

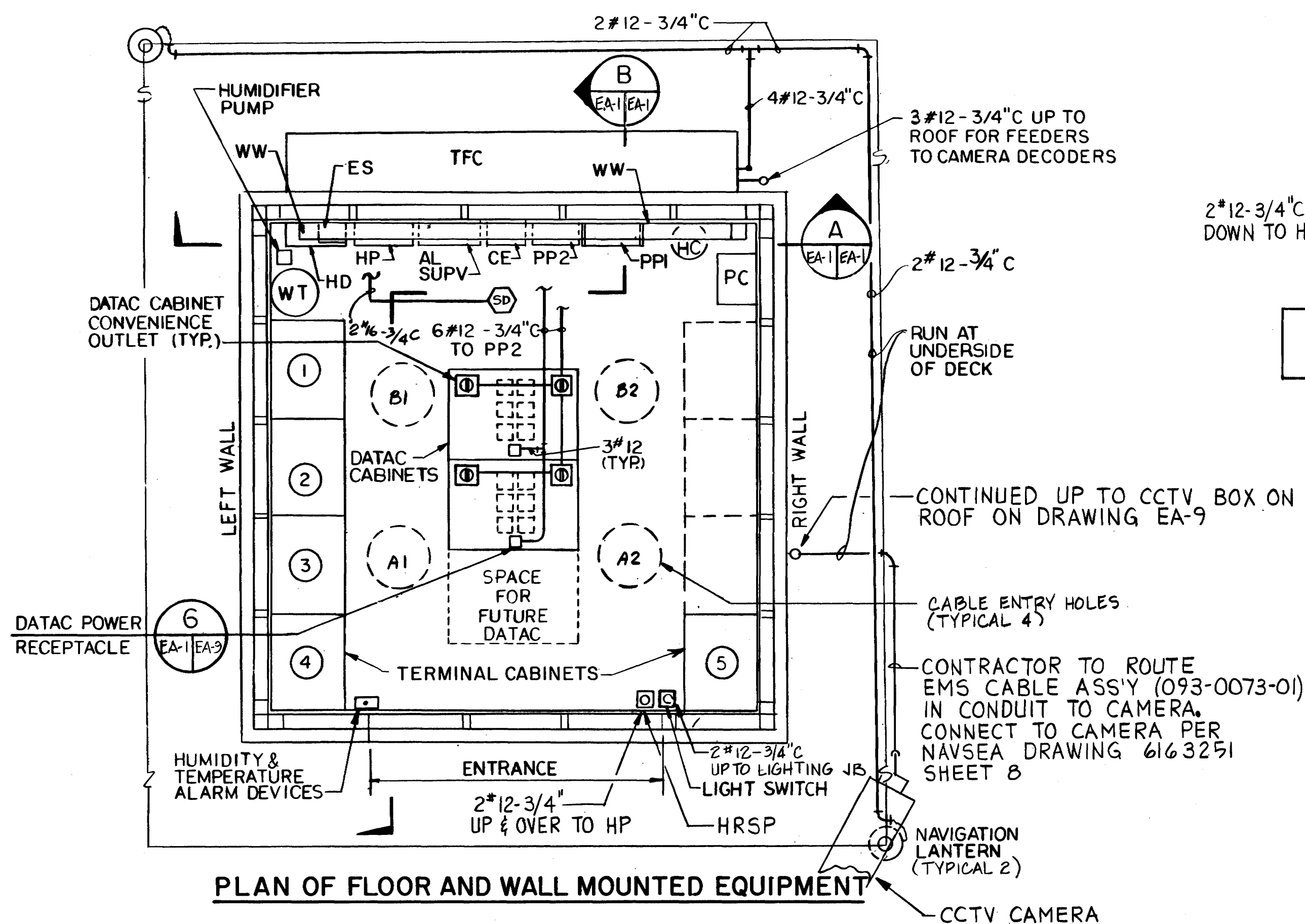
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



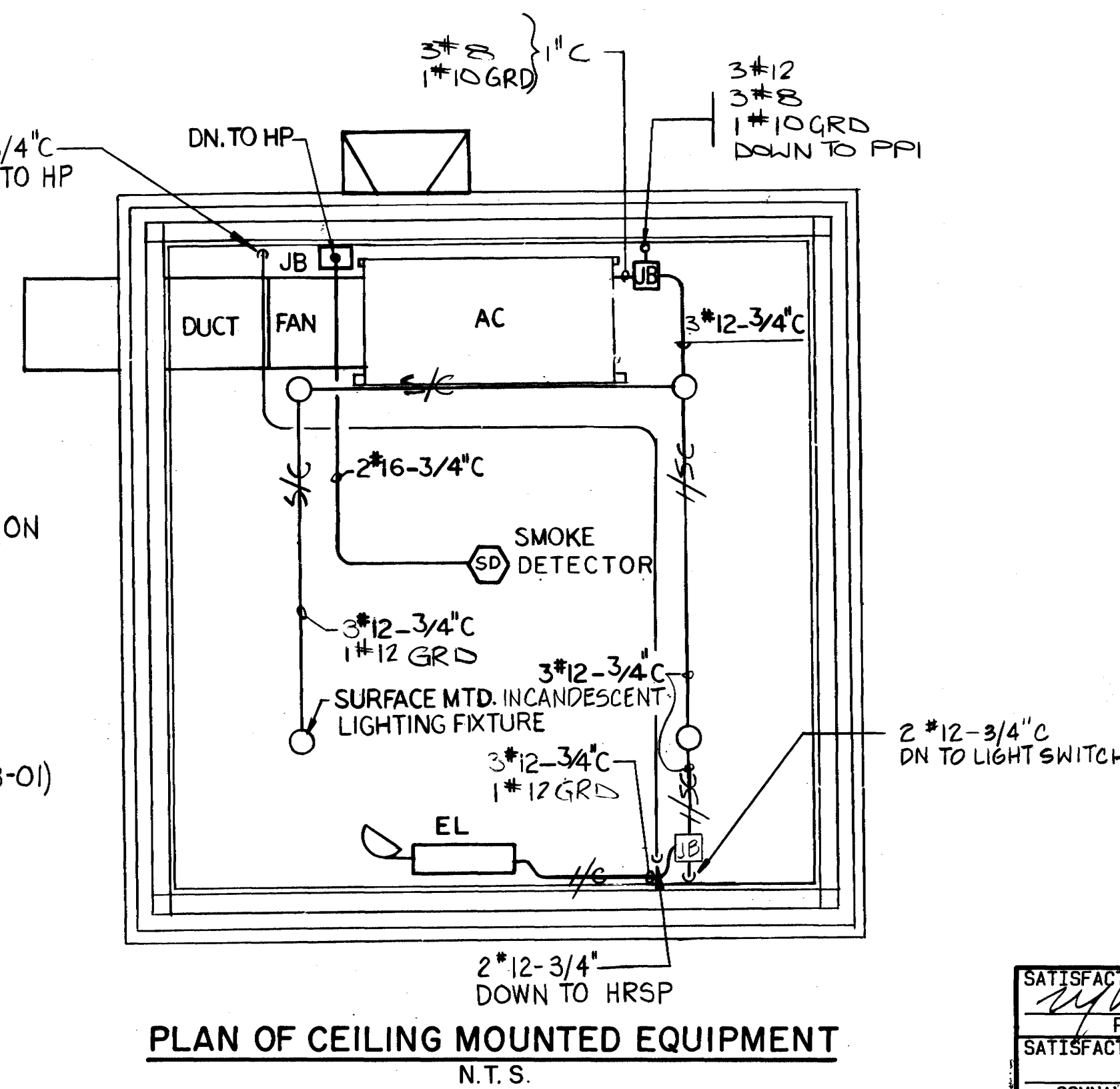
A SECTION
EA-1/EA-1



B SECTION
EA-1/EA-1
N.T.S.



PLAN OF FLOOR AND WALL MOUNTED EQUIPMENT



PLAN OF CEILING MOUNTED EQUIPMENT
N.T.S.

EQUIPMENT LEGEND

- AC - AIR CONDITIONER
- AL SUPV - ALARM SUPERVISORY CABINET
- B - BATTERY
- BC - BATTERY CHARGER
- CB - CIRCUIT BREAKER
- CE - SWITCH MECH. HELD
- CF - CONTROL SIGNAL FILTER UNIT
- ES - ENCLOSED FUSED DISCONNECT SWITCH
- EL - EMERGENCY LIGHT UNIT
- HC - HALON CYLINDER
- HP - HALON CONTROL PANEL
- HAR - HUMIDIFICATION AUXILIARY RELAY
- HU - HUMIDISTAT
- PC - POWER CONDITIONER
- PFI - POWER LINE FILTER
- PPI - POWER PANEL FOR UTILITIES
- PP2 - POWER PANEL FOR DATAC
- RC - OUTLET RECEPTACLE
- TR - TRANSFORMER
- TC - TERMINAL CABINET FOR SENSORS
- TFC - TRANSFORMER AND FILTER CABINET
- WT - WATER TANK
- WW - WIREWAY
- TH - THERMOSTAT
- SD - SMOKE DETECTOR
- SP - SURGE PROTECTOR
- FU - FUSE
- TDR - TIME DELAY RELAY

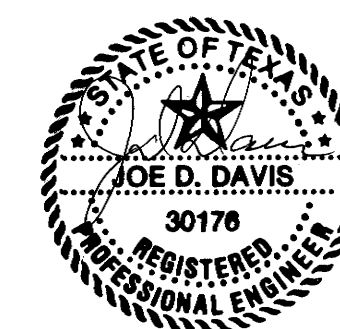
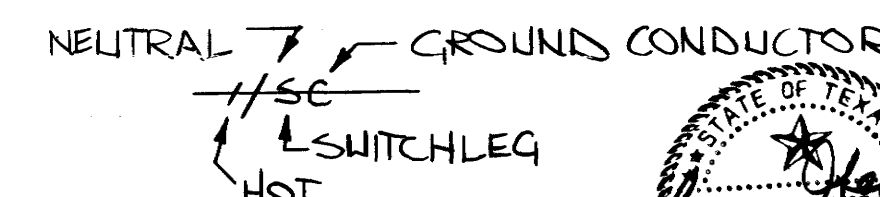
ABBREVIATIONS:

- CH - CHANNEL
- CCTV - CLOSED CIRCUIT TV
- DN - DOWN
- DCS - DATA CONCENTRATOR SHED
- DWG - DRAWING
- GRD - GROUND (GROUNDING)
- HUM - HUMIDITY
- JB - JUNCTION BOX
- MTD - MOUNTED
- PH - PHASE
- SHLD - SHIELDED (CABLE)
- TEMP - TEMPERATURE
- TYP - TYPICAL
- DATAC - DATA CONCENTRATOR
- AN - ANNUNCIATOR
- PS - PHOTOCELL SWITCH
- LTG - LIGHTING
- N.T.S. - NOT TO SCALE
- P - POLE
- A - AMPERE
- AWG - AMERICAN WIRE GAUGE
- CKT - CIRCUIT
- N - NEUTRAL
- SYS - SYSTEM
- DISCH - DISCHARGE
- V - VOLT
- CONN - CONNECTION
- HRSP - HALON RELEASE SHUTDOWN PUSH BUTTON
- CU - COPPER
- MCS - MULTI-CABLE SUPPORT

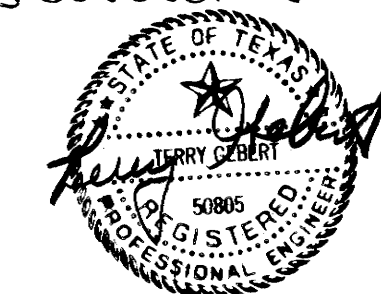
NOTES

- THE POWER AND CONTROL LINE FILTER MANUFACTURER SHALL FURNISH 12' LONG WIRES FOR CONNECTION TO ELECTRICAL EQUIPMENT. NO CABLE SPLICING SHALL BE NEEDED.
- FOR FIBER OPTIC CABLE TERMINATION DETAIL SEE DWG. EA-14.
- SEE DETAIL #1 ON DRAWING E-8 FOR TELEPHONE BOX DETAILS. FOR TYPICAL WIRING SEE DRAWING E-10.

WIRING LEGEND



FLUOR ENGINEERS, INC. HOUSTON DIVISION	
DES. WW	DR. F.S.
SUBMITTED BY	DATE
TITLE: PROGRAM MGR.	
OCEAN ENGR. & CONST. PROJ. OFF. FPO-1	
ETC. <i>[Signature]</i>	



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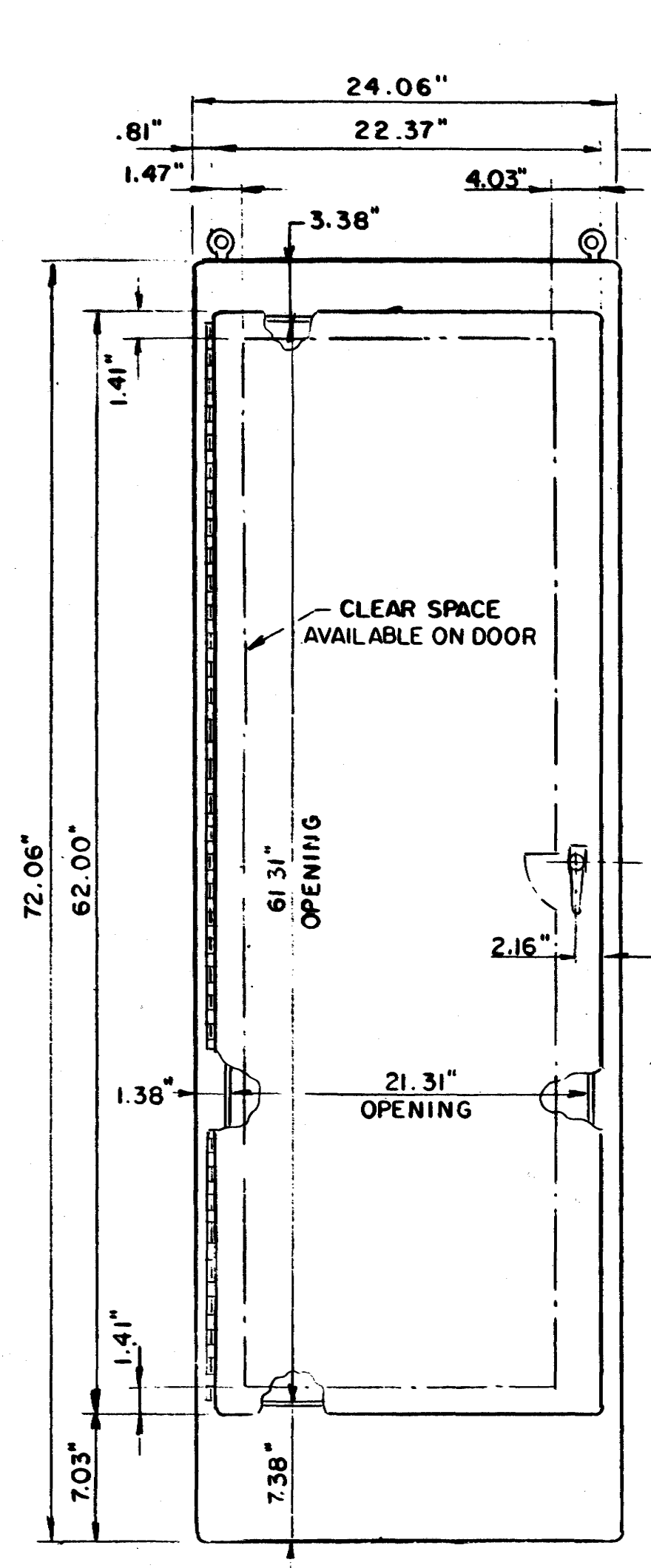
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
CHESAPEAKE DIVISION
WASHINGTON, D.C.

MAGNETIC SILENCING FACILITY NEW LONDON, CT.

CONDUIT LAYOUT

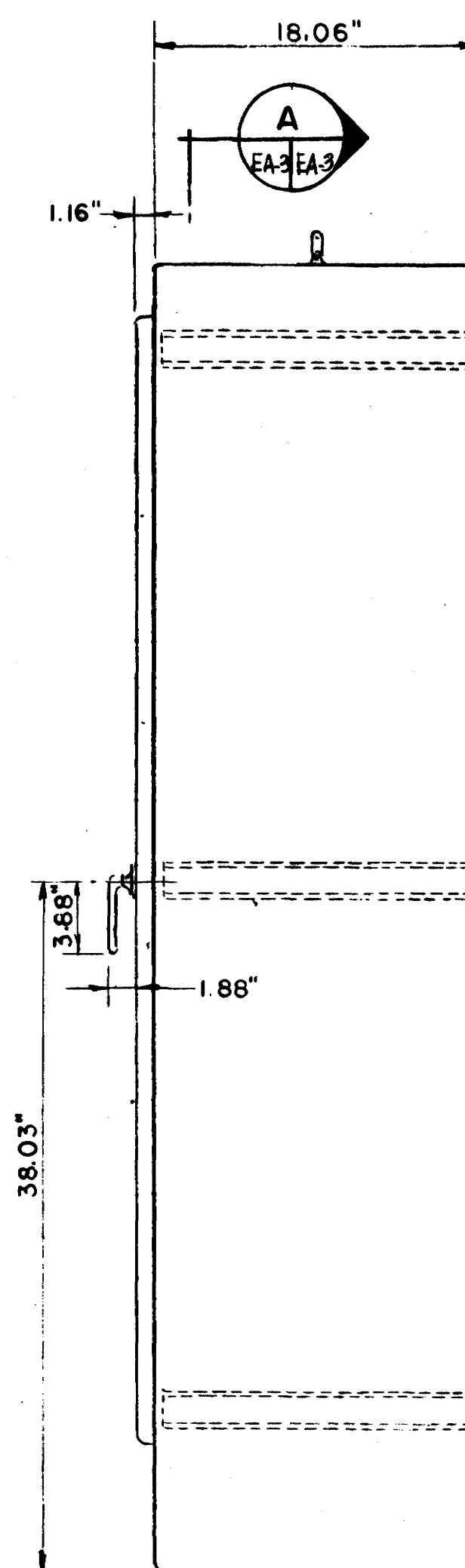
SATISFACTORY TO ROICC DATE 17 APR 89	APPROVED HEAD FPO-1 DATE 17 APR 89	SIZE CODE IDENT. NO. D 80091	NAVFAC DRAWING NO. 3050628	EA-1
SATISFACTORY TO COMNAVSEASYS COM DATE	APPROVED DATE 17 APR 89	CONSTR. CONTR. NO. N62477-86-C-0103	SCALE NOT TO SCALE SPEC. 21-86-0103 SHEET 42 OF 56	

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



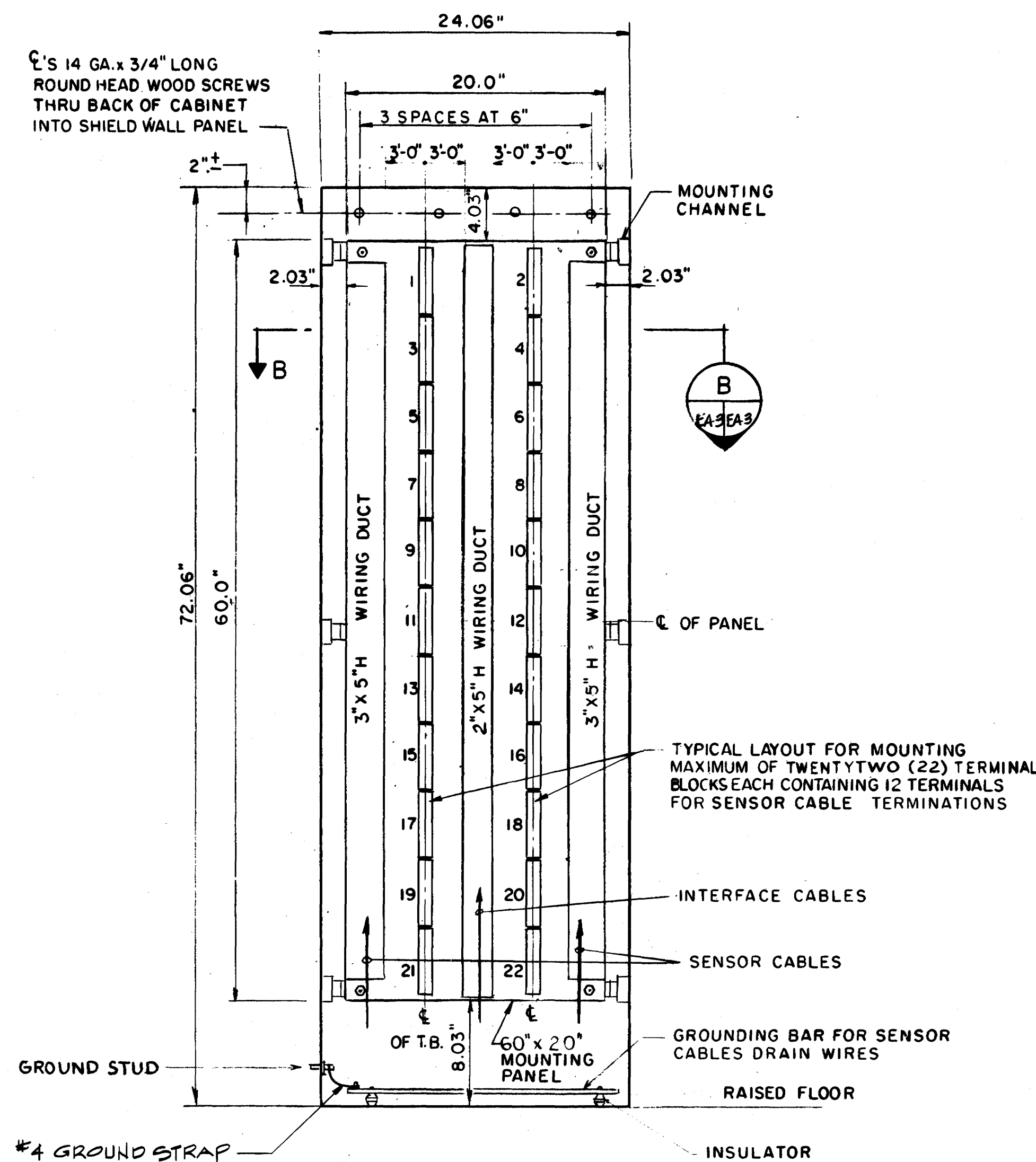
FRONT VIEW

TERMINAL CABINET (TYPICAL)
SCALE: 1/2" = 1'-0"

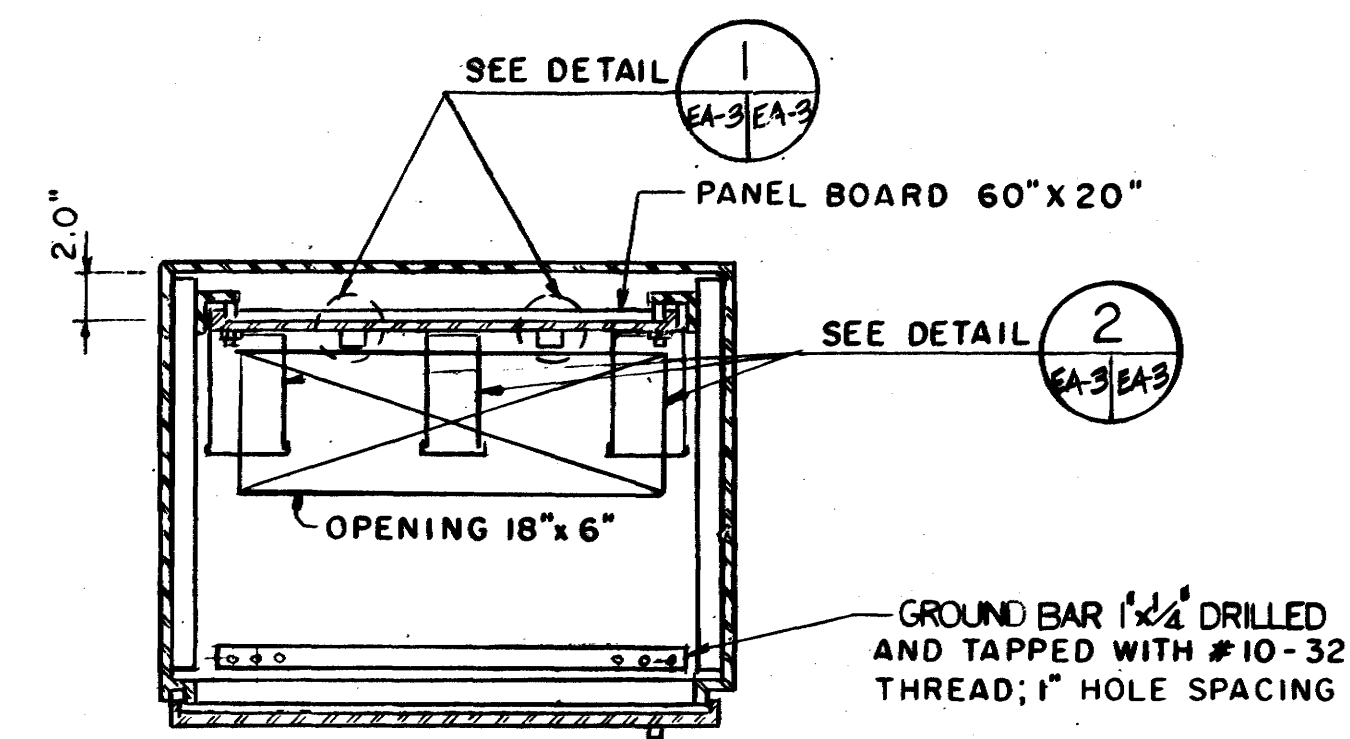


A
SIDE VIEW

2" S 14 GA. x 3/4" LONG
ROUND HEAD WOOD SCREWS
THRU BACK OF CABINET
INTO SHIELD WALL PANEL



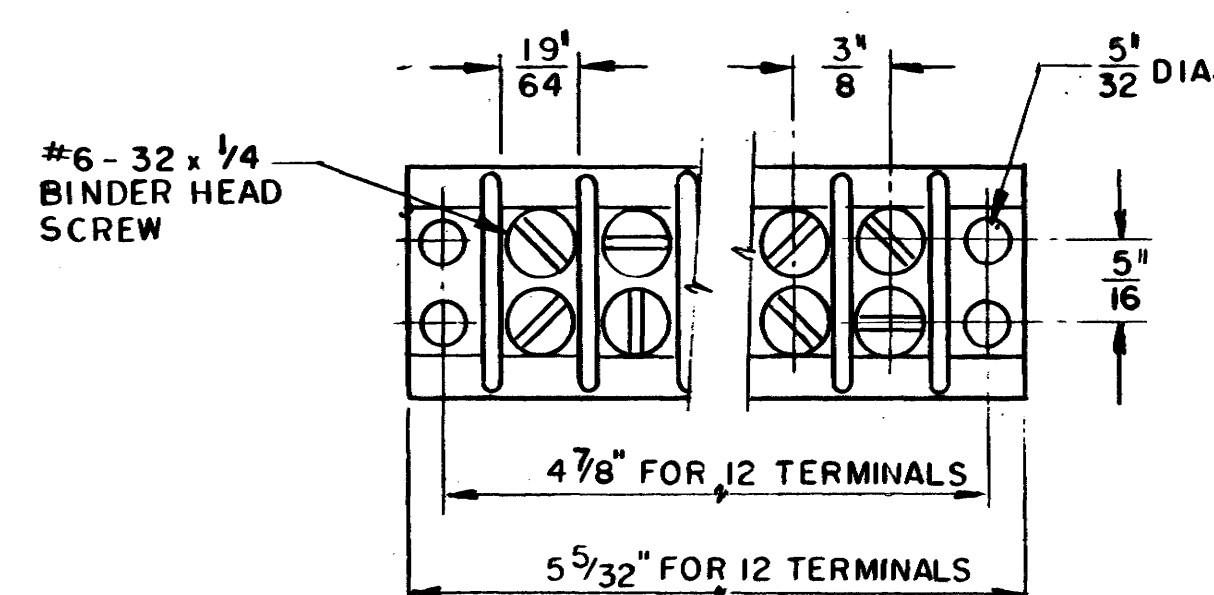
A
SECTION
SCALE: 1/2" = 1'-0"



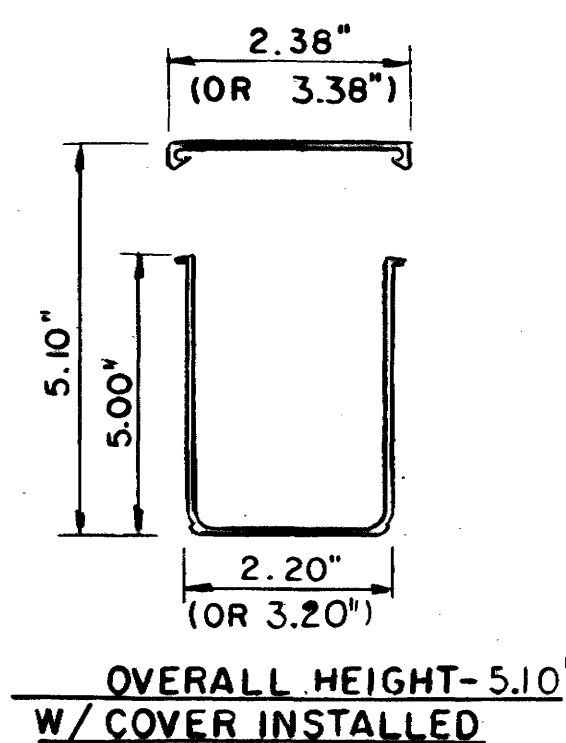
B
SECTION
SCALE: 1/2" = 1'-0"

NOTES:

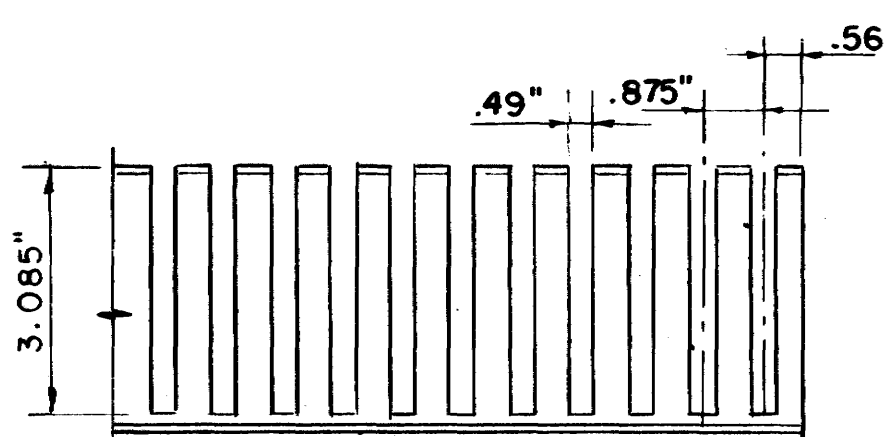
- FOR SENSOR WIRING DIAGRAMS SEE DRAWINGS EA-4. THRU EA-8



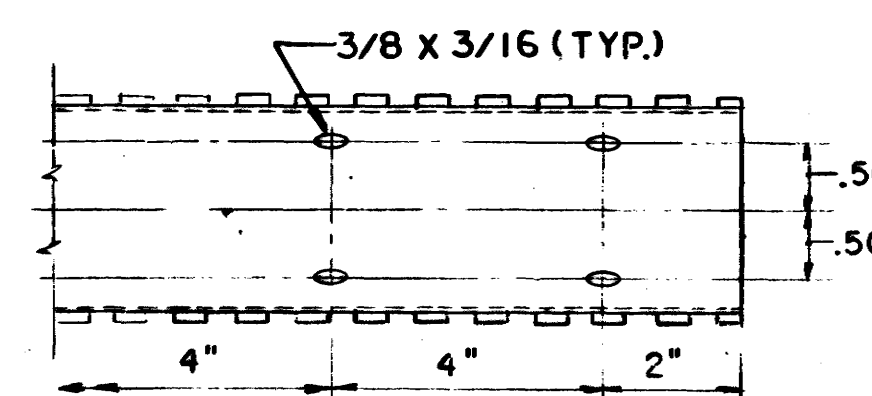
1
DETAIL
TERMINAL BLOCK
N.T.S.



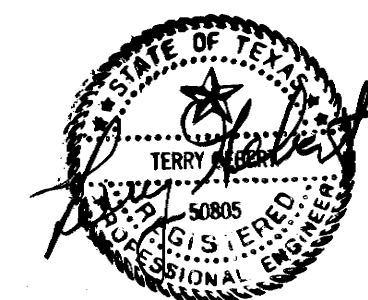
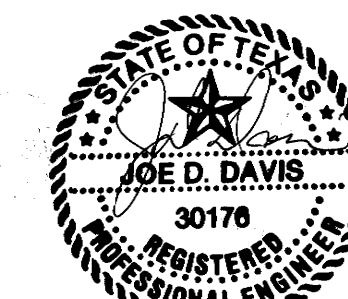
2
DETAIL
WIRING DUCT
N.T.S.



TYPICAL SIDE VIEW



BOTTOM VIEW



SATISFACTORY TO ROICC DATE 4/18/89 SATISFACTORY TO DATE COMNAVSEASYSOM		APPROVED HEAD FPO-1 DATE 17 APR 89 APPROVED DATE 17 APR 89 EFD FOR COMMANDER, NAVFAC		SIZE CODE IDENT. NO. D 80091 SCALE AS NOTED		NAVFAC DRAWING NO. 3050630 CONTR. CONTR. NO. N62477-86-C-0103 SPEC. 21-86-0103 SHEET 44 OF 56	
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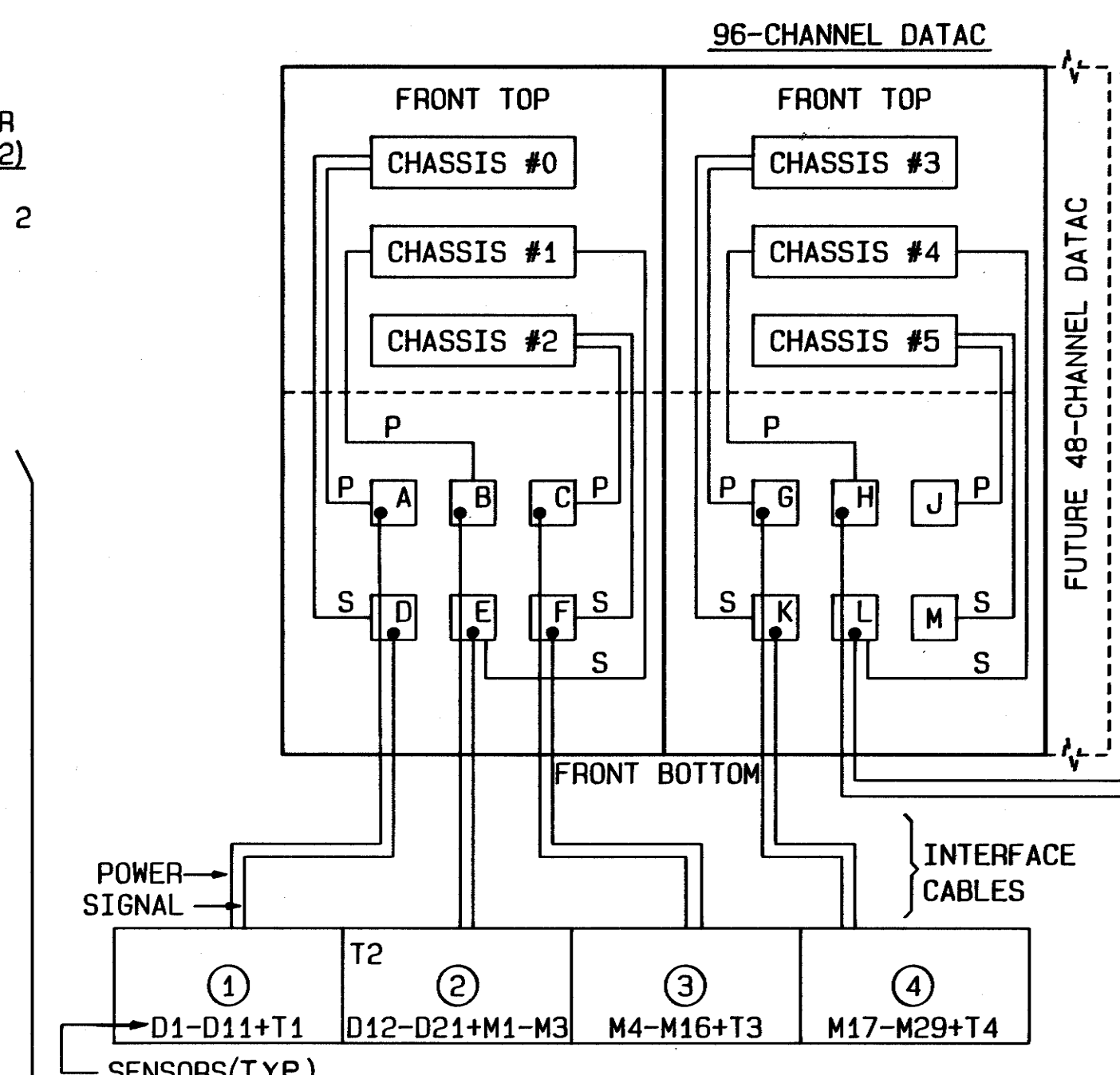
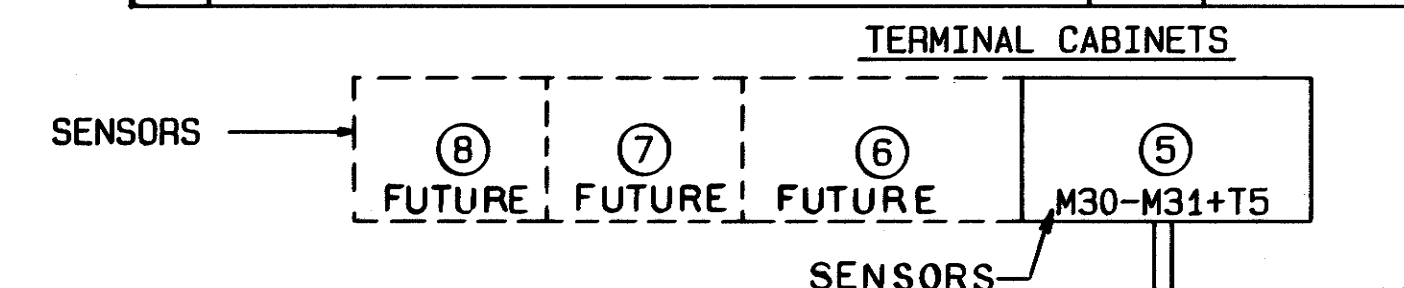
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DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
CHESAPEAKE DIVISION
WASHINGTON, D.C.

MAGNETIC SILENCING FACILITY
NEW LONDON, CT.
TERMINAL CABINET
LAYOUT AND DETAILS

FLUOR ENGINEERS, INC.
HOUSTON DIVISION
DES. VVV DR. FS CHK. H.S.
SUBMITTED BY DATE
TITLE PROGRAM MGR.
OCEAN ENGR. & CONST. PROJ. OFF. FPO-1
EIC. A. B. RVD T. P. W. W.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



INTERCONNECTION WIRING DIAGRAM

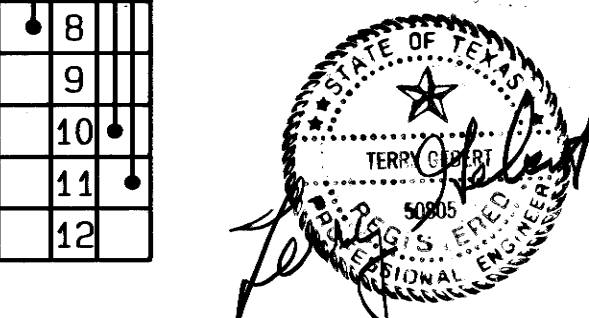
TO TRIAXIAL SENSOR#
1-T1- (13, 14, 15)
0-5A1A2

NOTES:

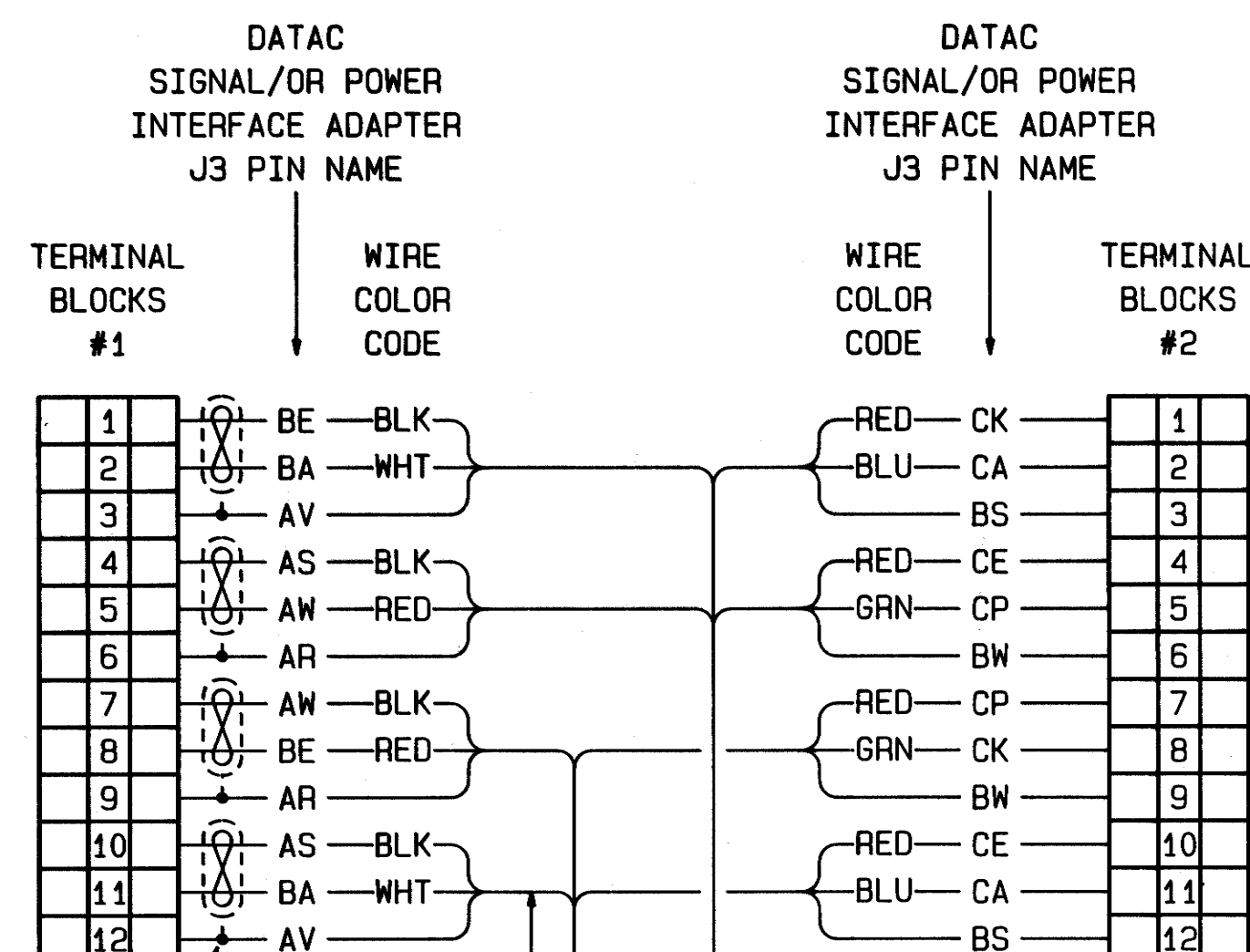
- FOR REFERENCE SEE NAVSEA DRAWING FSCM #53711, DWG. 6163251, SH. 1 THROUGH 8.
- ALL VERTICAL SENSOR CONNECTIONS ARE SIMILAR TO THE CONNECTIONS OF SENSOR #D1.
- FOR INTERFACE CABLE ASSEMBLY DETAILS SEE DWG.EA-14.
- CHANNELS #0 AND #1 IN CHASSIS #0 ARE RESERVED FOR EQUIPMENT "HOUSEKEEPING" PURPOSE AND SHALL NOT BE USED FOR SENSOR CABLE TERMINATION.
- GROUND CABLE DRAIN WIRES TO GROUND BUS AT BOTTOM OF TERMINATION CABINET.

"WARNING: DRAWING MAY BECOME DISTORTED DURING REDUCTION OR OTHER REPRODUCTION PROCESS. USER IS CAUTIONED AGAINST SCALING."

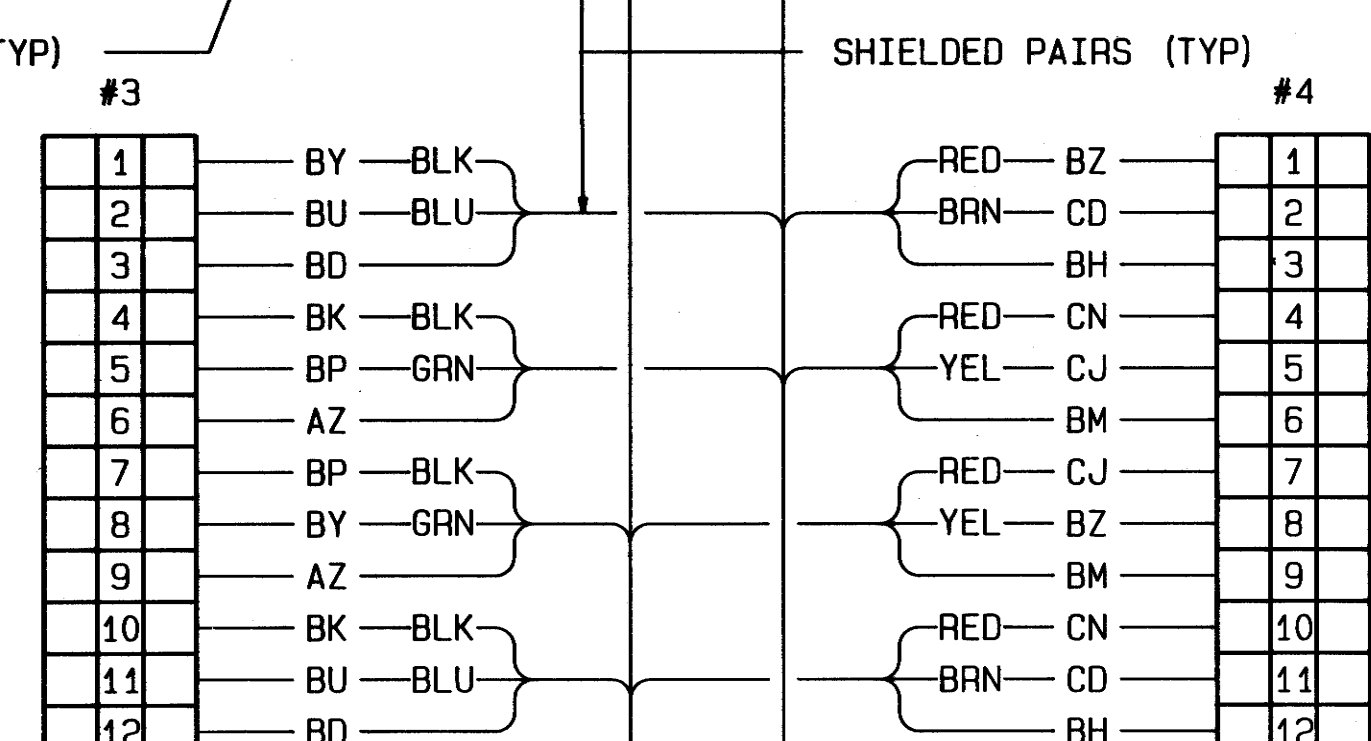
FLUOR ENGINEERS, INC. HOUSTON DIVISION SUBMITTED BY: <i>[Signature]</i> DATE: <i>[Date]</i> OCEAN ENGR. & CONST. PROJ. OFF. FPD-1 EIC: <i>[Signature]</i> DATE: <i>[Date]</i>		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND CHESAPEAKE DIVISION WASHINGTON, D.C. MAGNETIC SILENCING FACILITY NEW LONDON, CT. INTERFACE WIRING DIAGRAM TERMINAL CABINET No.1	
DES. W.W. DR. F.S. CHK. H.S. DATE: <i>[Date]</i> APPROVED HEAD FPD-1 DATE: <i>[Date]</i> APPROVED DATE: <i>[Date]</i> EFD FOR COMMANDER, NAVFAC	SIZE CODE IDENT. NO. NAVFAC DRAWING NO. D 80091 3050631 CONSTR. CONTR. NO. N62477-86-C-0103 SCALE: NOT TO SCALE SPEC. 21-86-0103 SHEET 45 OF 56	EA-4	



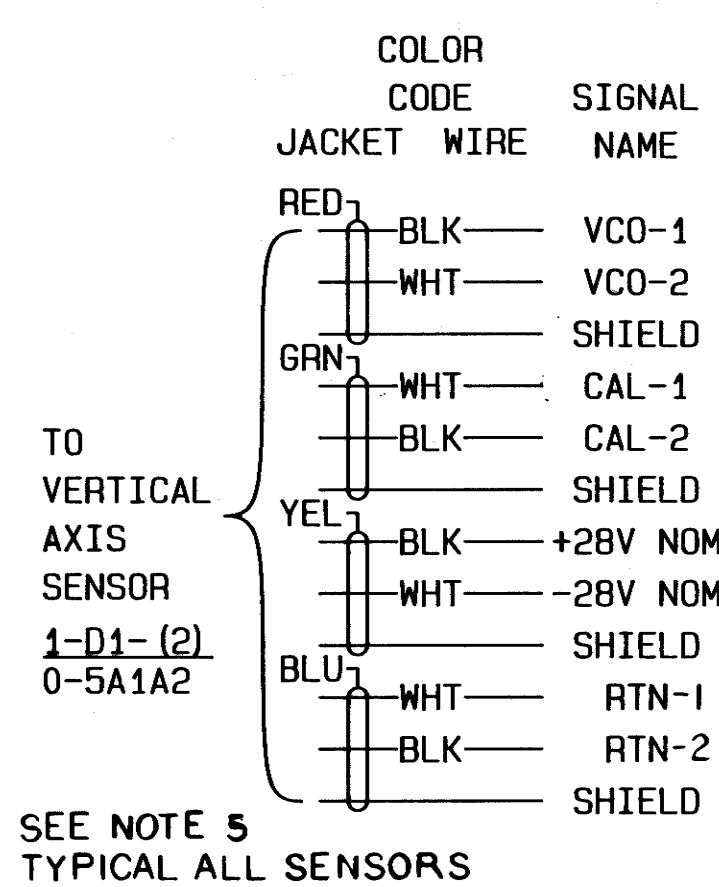
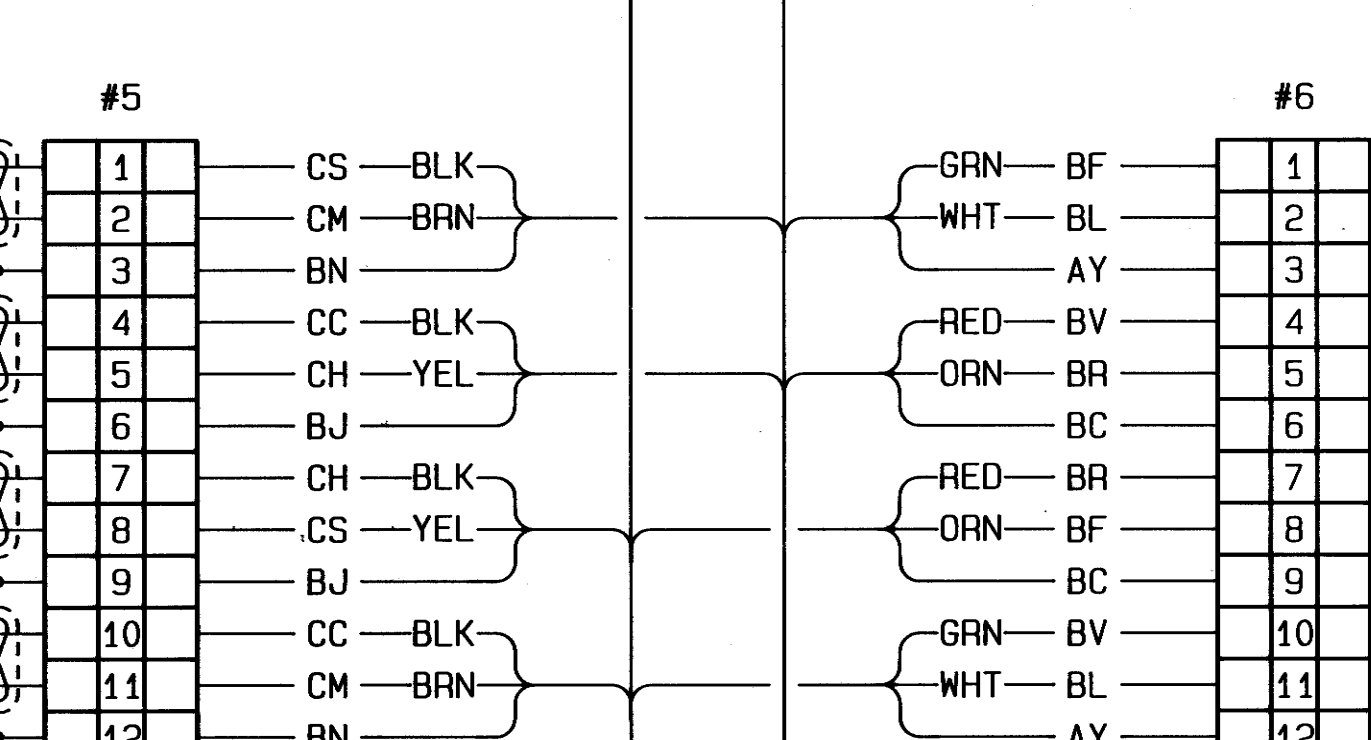
SATISFACTORY TO	DATE
HOICC	<i>[Date]</i>
SATISFACTORY TO	DATE
COMNAVSEASYS COM	<i>[Date]</i>



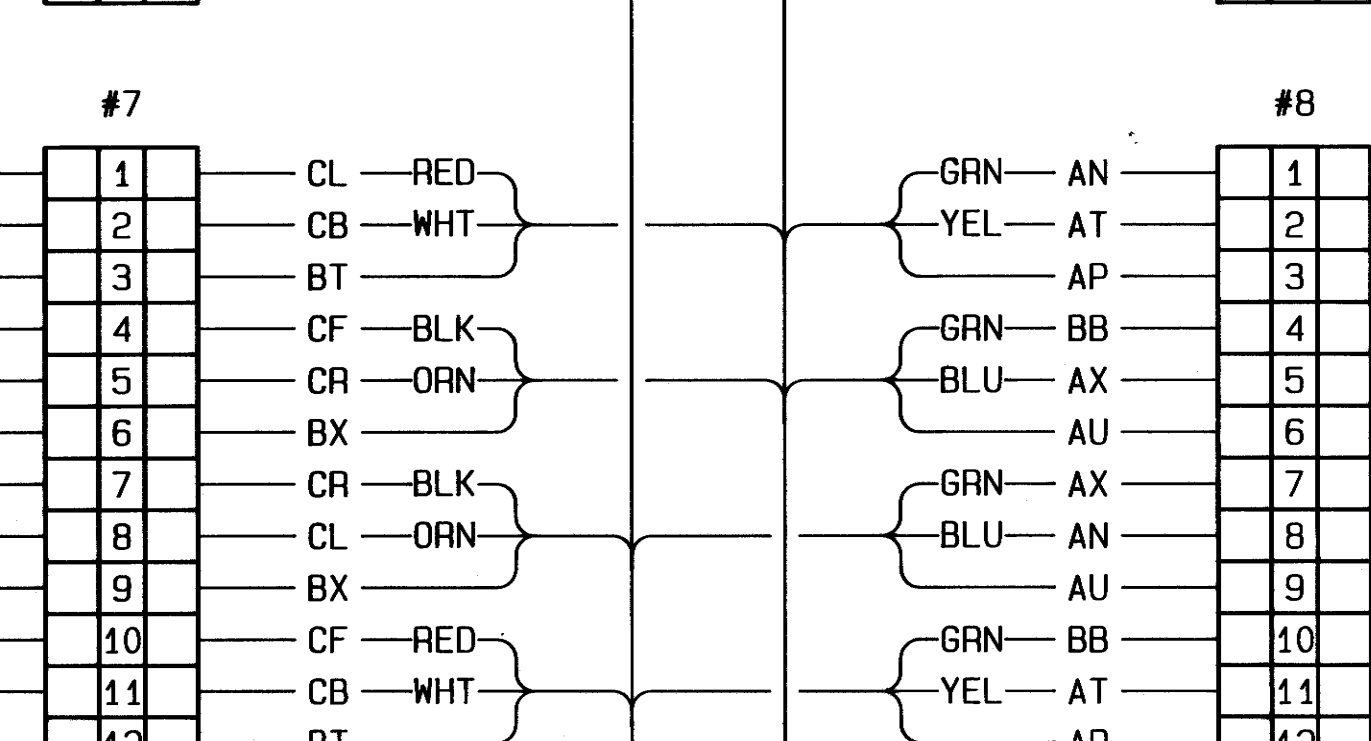
CHANNEL (0)
UNUSABLE
SEE NOTE 4



CHANNEL (1)
UNUSABLE
SEE NOTE 4



SEE NOTE 5
TYPICAL ALL SENSORS



TO SENSOR
1-D2- (3)
0-5A1A2
SEE NOTE 2

TO SENSOR
1-D3- (4)
0-5A1A2
SEE NOTE 2

TO SENSOR
1-D7- (8)
0-5A1A2
SEE NOTE 2

TO SENSOR
1-D4- (5)
0-5A1A2
SEE NOTE 2

TO SENSOR
1-D8- (9)
0-5A1A2
SEE NOTE 2

TO SENSOR
1-D5- (6)
0-5A1A2
SEE NOTE 2

TO SENSOR
1-D9- (10)
0-5A1A2
SEE NOTE 2

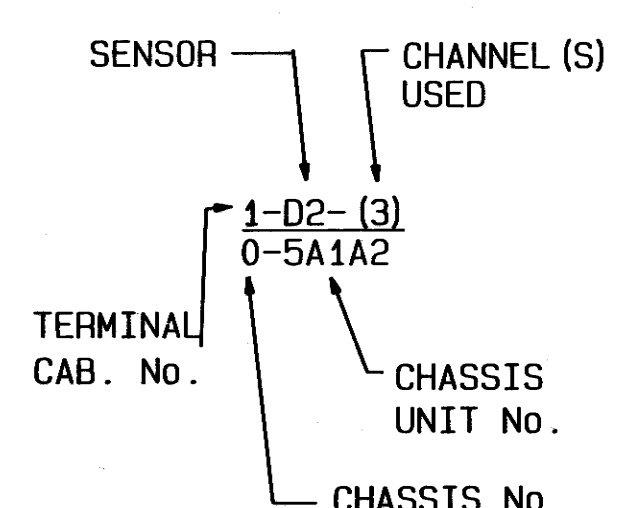
TO SENSOR
1-D6- (7)
0-5A1A2
SEE NOTE 2

TO SENSOR
1-D10- (11)
0-5A1A2
SEE NOTE 2

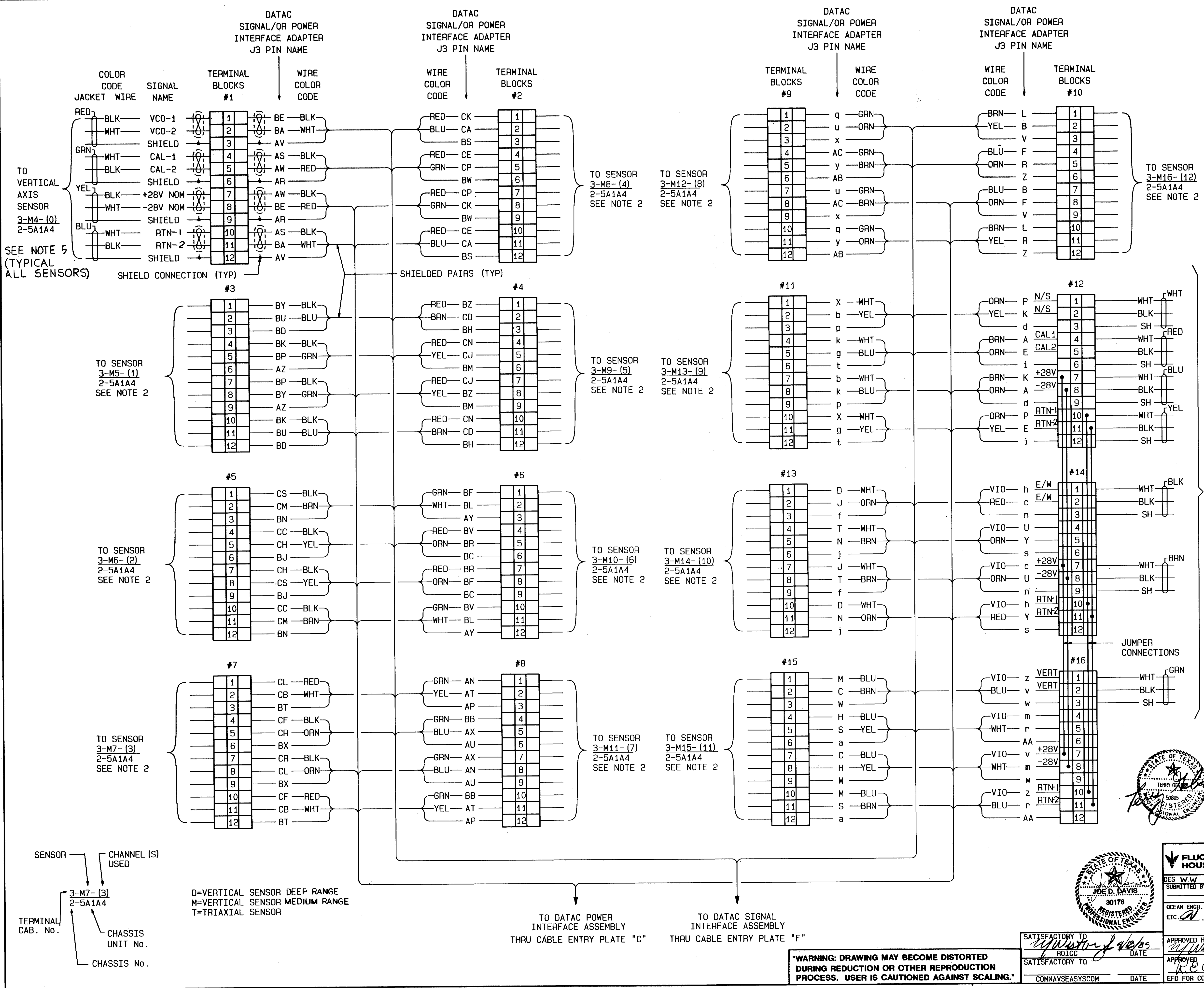
TO DATAC POWER
INTERFACE ASSEMBLY
THRU CABLE ENTRY PLATE "A"

TO DATAC SIGNAL
INTERFACE ASSEMBLY
THRU CABLE ENTRY PLATE "D"

D=VERTICAL SENSOR DEEP RANGE
M=VERTICAL SENSOR MEDIUM RANGE
T=TRIAxIAL SENSOR

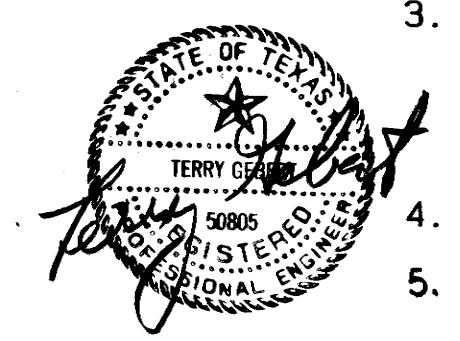


REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



NOTES:

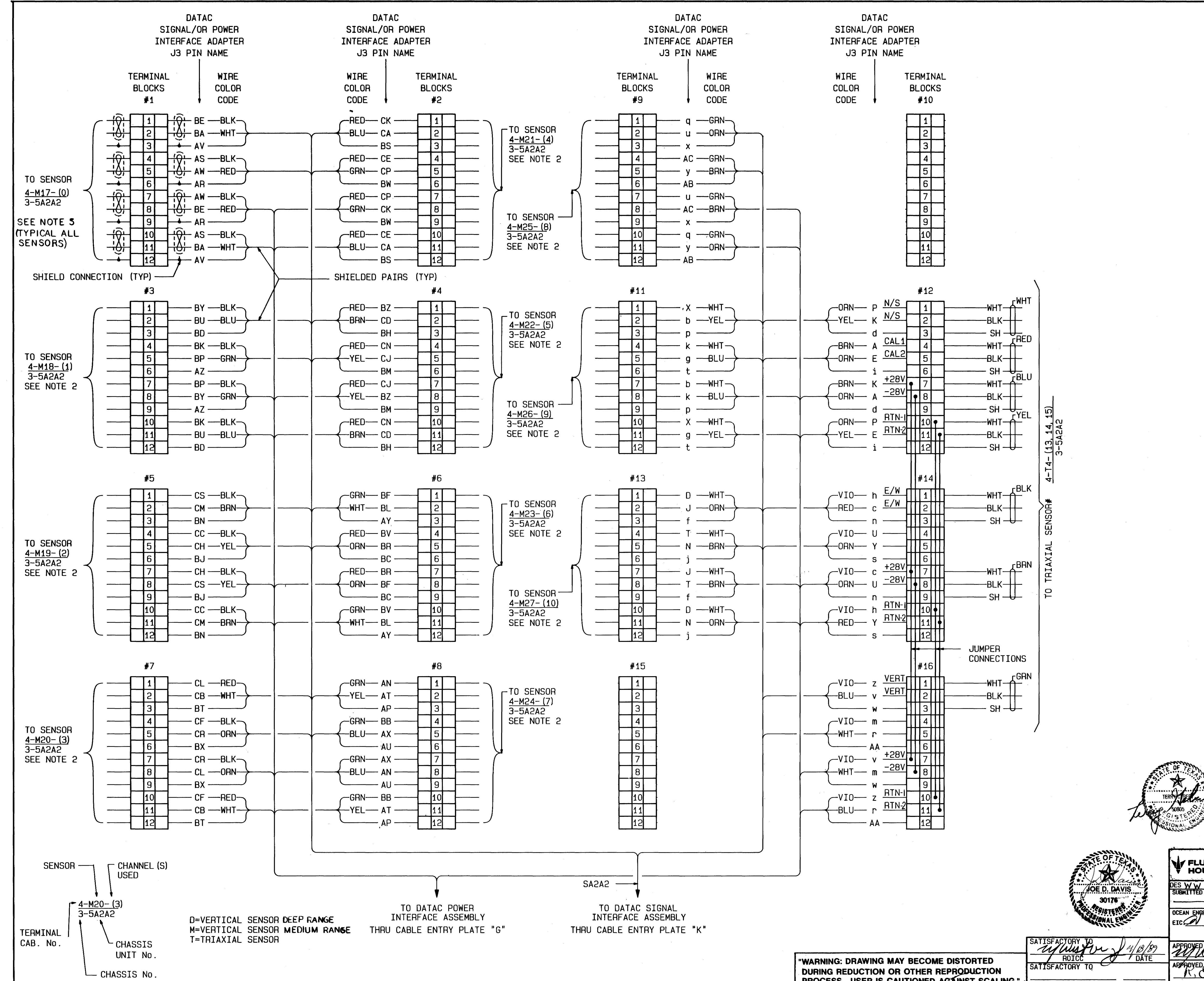
- FOR REFERENCE SEE NAVSEA DRAWING FSCM #53711, DWG. 6163251, SH. 1 THROUGH 8.
- ALL VERTICAL SENSOR CONNECTIONS ARE SIMILAR TO THE CONNECTIONS OF SENSOR #M4.
- FOR INTERCONNECTIONS BETWEEN TERMINAL CABINET #3 AND DATAc CABINET SEE INTERCONNECTION WIRING DIAGRAM ON DWG. EA-4.
- FOR INTERFACE CABLE ASSEMBLY DETAILS SEE DWG. EA-15
- GROUND CABLE DRAIN WIRES TO GROUND BUS AT BOTTOM OF TERMINATION CABINET.



FLUOR ENGINEERS, INC. HOUSTON DIVISION		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND	
DES. W.W. DR. F.S. CHK. M.K. DATE		CHESAPEAKE DIVISION	
SUBMITTED BY		WASHINGTON, D.C.	
OCEAN ENGR. & CONST. PROJ. OFF. FPO-1		NEW LONDON, CT.	
EIC		MAGNETIC SILENCING FACILITY	
TITLE: PROGRAM MGR.		INTERFACE WIRING DIAGRAM	
APPROVED HEAD FPO-1 DATE 17 APR 89		TERMINAL CABINET No. 3	
APPROVED DATE 17 APR 89		NAVFAC DRAWING NO. 3050633	
EFD FOR COMMANDER, NAVFAC		CONSTR. CONTR. NO. N62477-86-C-0103	
SCALE NOT TO SCALE		SHEET 47 OF 56	

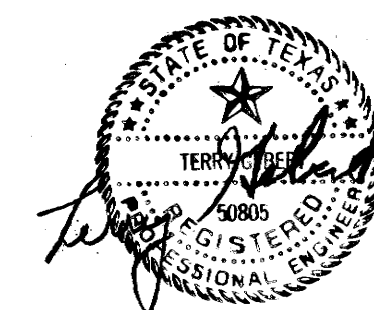
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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



NOTES

- FOR REFERENCE SEE NAVSEA DRAWING FSCM #53711, DWG. 6163251, SH. 1 THROUGH 8.
- ALL VERTICAL SENSOR CONNECTIONS ARE SIMILAR TO THE CONNECTIONS OF SENSOR #M17
- FOR INTERCONNECTIONS BETWEEN TERMINAL CABINET #4 AND DATA CABINET SEE INTERCONNECTION WIRING DIAGRAM ON DWG. EA-4.
- FOR INTERFACE CABLE ASSEMBLY DETAILS SEE DWG. EA-15.
- GROUND CABLE DRAIN WIRES TO GROUND BUS AT BOTTOM OF TERMINATION CABINET.



FLUOR ENGINEERS, INC. HOUSTON DIVISION		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND CHESAPEAKE DIVISION WASHINGTON, D.C.	
SUBMITTED BY: <i>[Signature]</i> DATE: <i>[Date]</i>		MAGNETIC SILENCING FACILITY NEW LONDON, CT.	
TITLE: PROGRAM MGR. OCEAN ENGR. & CONST. PROJ. OFF. FPD-1 EIC: <i>[Signature]</i> <i>[Signature]</i> <i>[Signature]</i>		INTERFACE WIRING DIAGRAM TERMINAL CABINET No.4	
APPROVED FOR: <i>[Signature]</i> DATE: <i>[Date]</i>		SIZE: CODE IDENT. NO. 80091	
APPROVED: <i>[Signature]</i> DATE: <i>[Date]</i>		NAVFAC DRAWING NO. 3050634	
EFD FOR COMMANDER, NAVFAC		CONSTR. CONTR. NO. N62477-86-C-0103	
SCALE: NOT TO SCALE		SHEET 48 OF 56	

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PROCESS. USER IS CAUTIONED AGAINST SCALING."

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED

TERMINAL
BLOCKS
#1

1
2
3
4
5
6
7
8
9
10
11
12

#3

1
2
3
4
5
6
7
8
9
10
11
12

#5

1
2
3
4
5
6
7
8
9
10
11
12

#7

1
2
3
4
5
6
7
8
9
10
11
12

TERMINAL
BLOCKS
#2

1
2
3
4
5
6
7
8
9
10
11
12

#4

1
2
3
4
5
6
7
8
9
10
11
12

#6

1
2
3
4
5
6
7
8
9
10
11
12

#8

1
2
3
4
5
6
7
8
9
10
11
12

TERMINAL
BLOCKS
#9

1
2
3
4
5
6
7
8
9
10
11
12

#11

1
2
3
4
5
6
7
8
9
10
11
12

#13

1
2
3
4
5
6
7
8
9
10
11
12

#15

1
2
3
4
5
6
7
8
9
10
11
12

DATA
SIGNAL/OR POWER
INTERFACE ADAPTER
J3 PIN NAME

WIRE
COLOR
CODE

SIGNAL
NAME

TERMINAL
BLOCKS
#10

COLOR CODE
WIRE JACKET

1
2
3
4
5
6
7
8
9
10
11
12

1
2
3
4
5
6
7
8
9
10
11
12

1
2
3
4
5
6
7
8
9
10
11
12

1
2
3
4
5
6
7
8
9
10
11
12

ORN P N/S
YEL K N/S
d CAL1
BRN A CAL2
ORN E
i
BRN K +28V
ORN A -28V
i
ORN P RTN-1
YEL E RTN-2
d

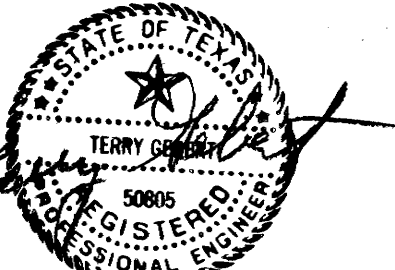
VIO h E/W
RED c E/W
n
VIO U
ORN Y
s
VIO c +28V
ORN U -28V
s
VIO h RTN-1
RED Y RTN-2
n

VIO z VERT
BLU v VERT
w
VIO m
WHT r
AA
VIO v +28V
WHT m -28V
AA
VIO z RTN-1
BLU r RTN-2
w

WHT WHT
BLK BLK
SH RED
WHT
BLK
SH BLU
BLK
SH YEL
BLK
SH

WHT BLK
BLK
SH
WHT BRN
BLK
SH

WHT GRN
BLK
SH



LEGEND

T=TRIAxIAL
SENSOR
CHANNELS
USED
5-T5- (13, 14, 15)
4-5A2A3
CHASSIS
UNIT No.
CHASSIS No.
TERMINAL
CAB. No.

NOTES

- FOR REFERENCE SEE NAVSEA DRAWING FSCM #53711, DWG. 6163251, SH. 1 THROUGH 8.
- FOR INTERCONNECTIONS BETWEEN TERMINAL CABINET #5 AND DATA CABINET SEE INTERCONNECTION WIRING DIAGRAM ON DWG.EA-4.
- FOR INTERFACE CABLE ASSEMBLY DETAILS SEE DWG.EA-15.
- UNUSED PAIRS OF INTERFACE CABLES TAPED, LABELED AND SECURED IN WIRING DUCT. THE LENGTH OF UNUSED PAIRS SHALL BE SUFFICIENT TO REACH ANY TERMINAL BLOCK FOR FUTURE USE.
- GROUND CABLE DRAIN WIRES TO GROUND BUS AT BOTTOM OF TERMINATION CABINET.

TO DATA SIGNAL
INTERFACE ASSEMBLY
THRU CABLE ENTRY PLATE "L"

TO DATA POWER
INTERFACE ASSEMBLY
THRU CABLE ENTRY PLATE "H"

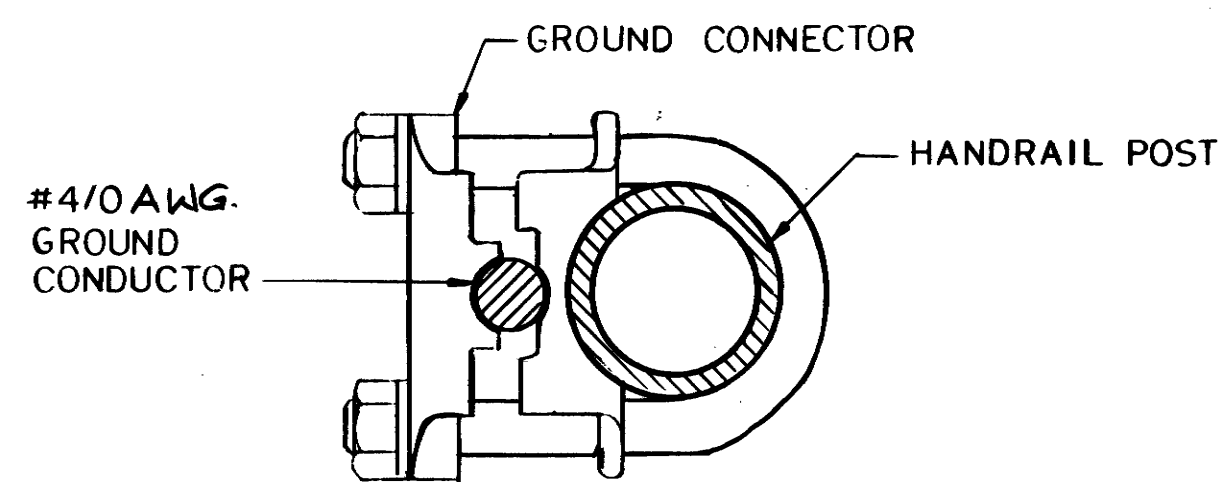
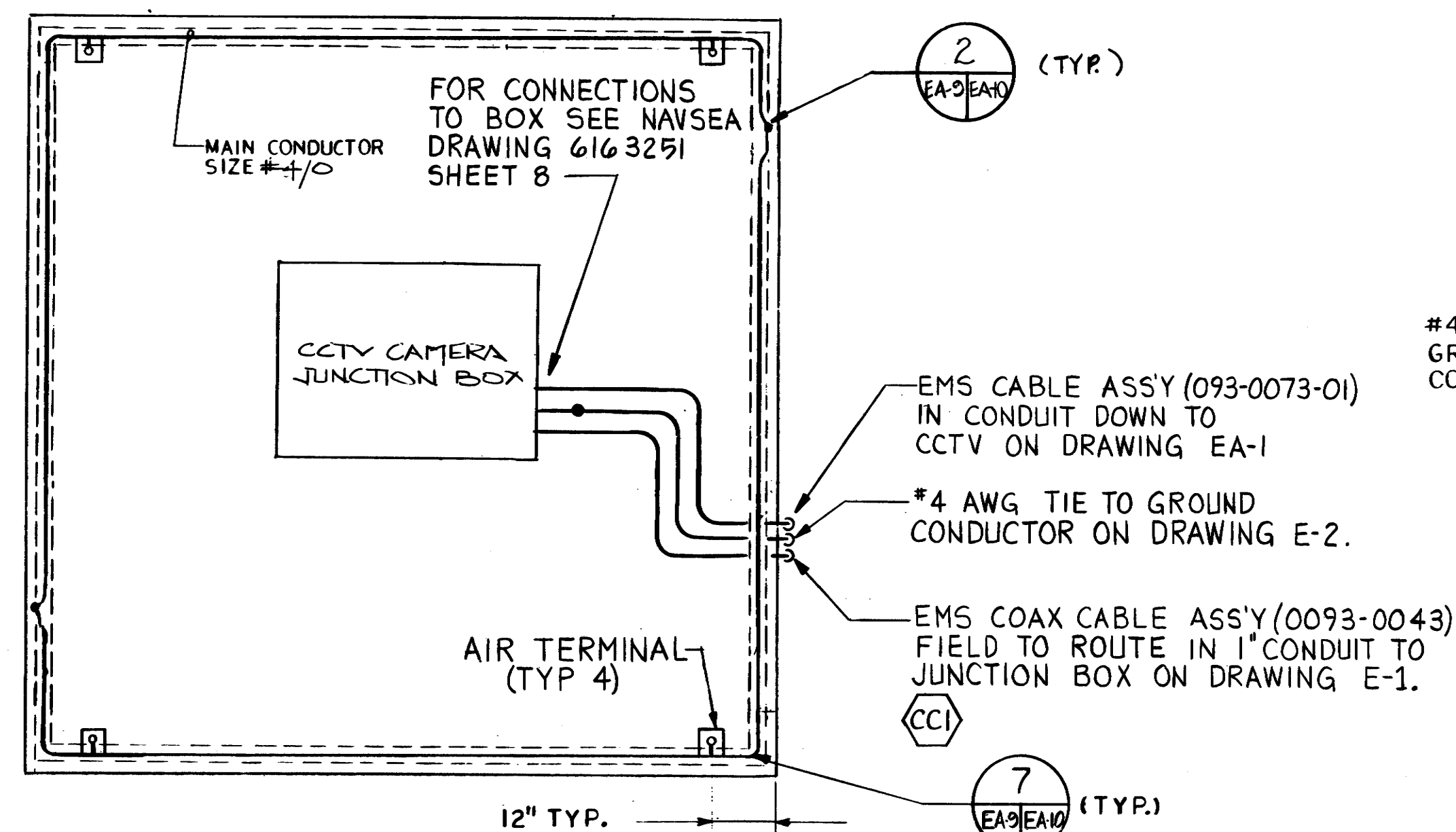
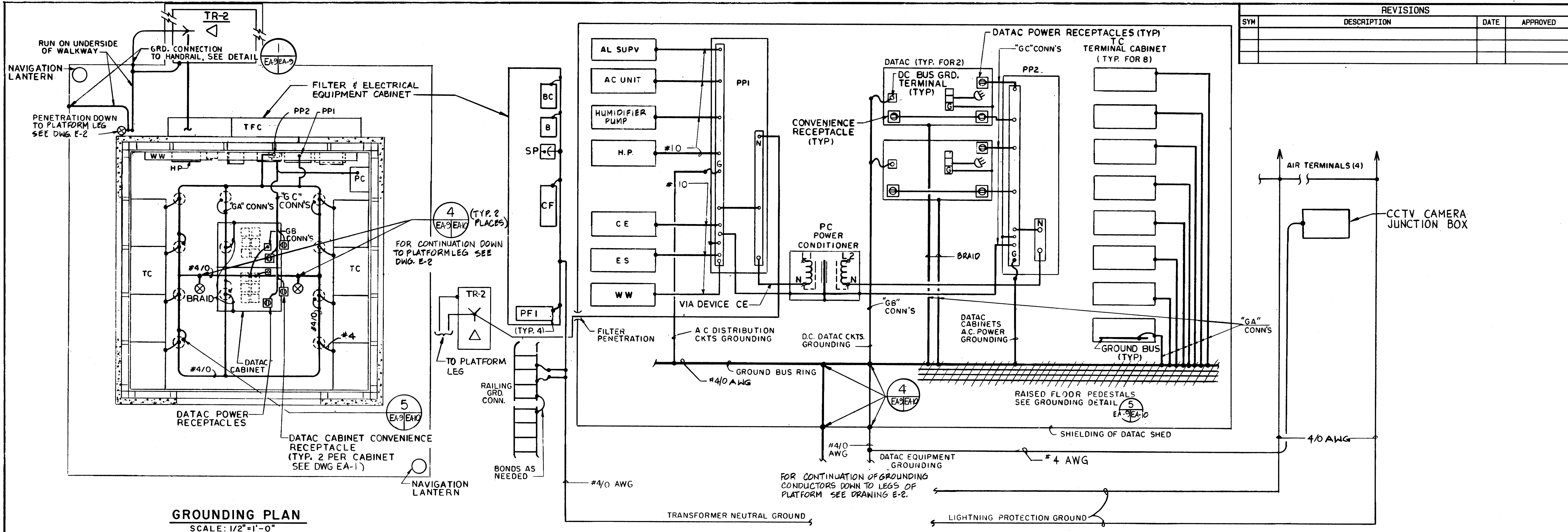
"WARNING: DRAWING MAY BECOME DISTORTED
DURING REDUCTION OR OTHER REPRODUCTION
PROCESS. USER IS CAUTIONED AGAINST SCALING."

SATISFACTORY TO
ROICC
DATE
SATISFACTORY TO
COMNAVSEASYSOM
DATE

FLUOR ENGINEERS, INC.
HOUSTON DIVISION
DES W.W. DR F.S. CHK M.K.
SUBMITTED BY DATE
TITLE: PROGRAM MGR.
OCEAN ENGR. & CONST. PROJ. OFF. FPO-1
ETC. *W.D. RVD* *10* *upw*
APPROVED HEAD FPO-1 DATE
APPROVED DATE
EFD FOR COMMANDER, NAVFAC

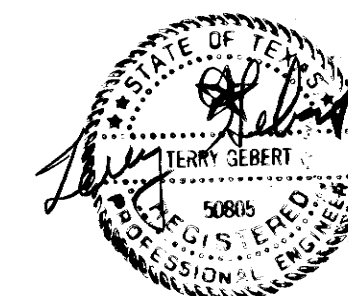
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
CHESAPEAKE DIVISION
WASHINGTON, D.C.
MAGNETIC SILENCING FACILITY NEW LONDON, CT.
INTERFACE WIRING DIAGRAM
TERMINAL CABINET No.5
SIZE CODE IDENT. NO. NAVFAC DRAWING NO.
D 80091 3050635
CONSTR. CONTR. NO. N62477-86-C-0103
SCALE NOT TO SCALE SPEC. 21-86-0103 SHEET 49 OF 50



EA-8

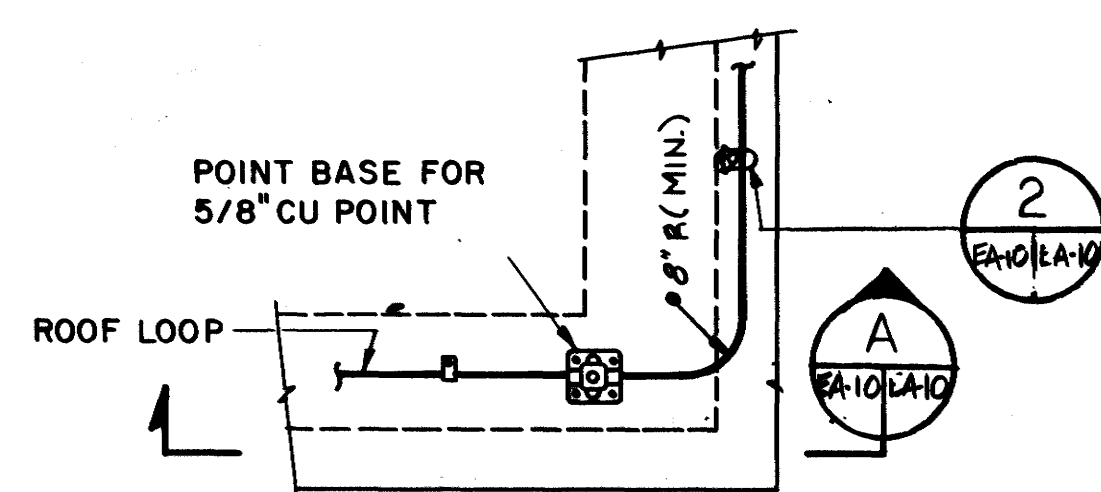


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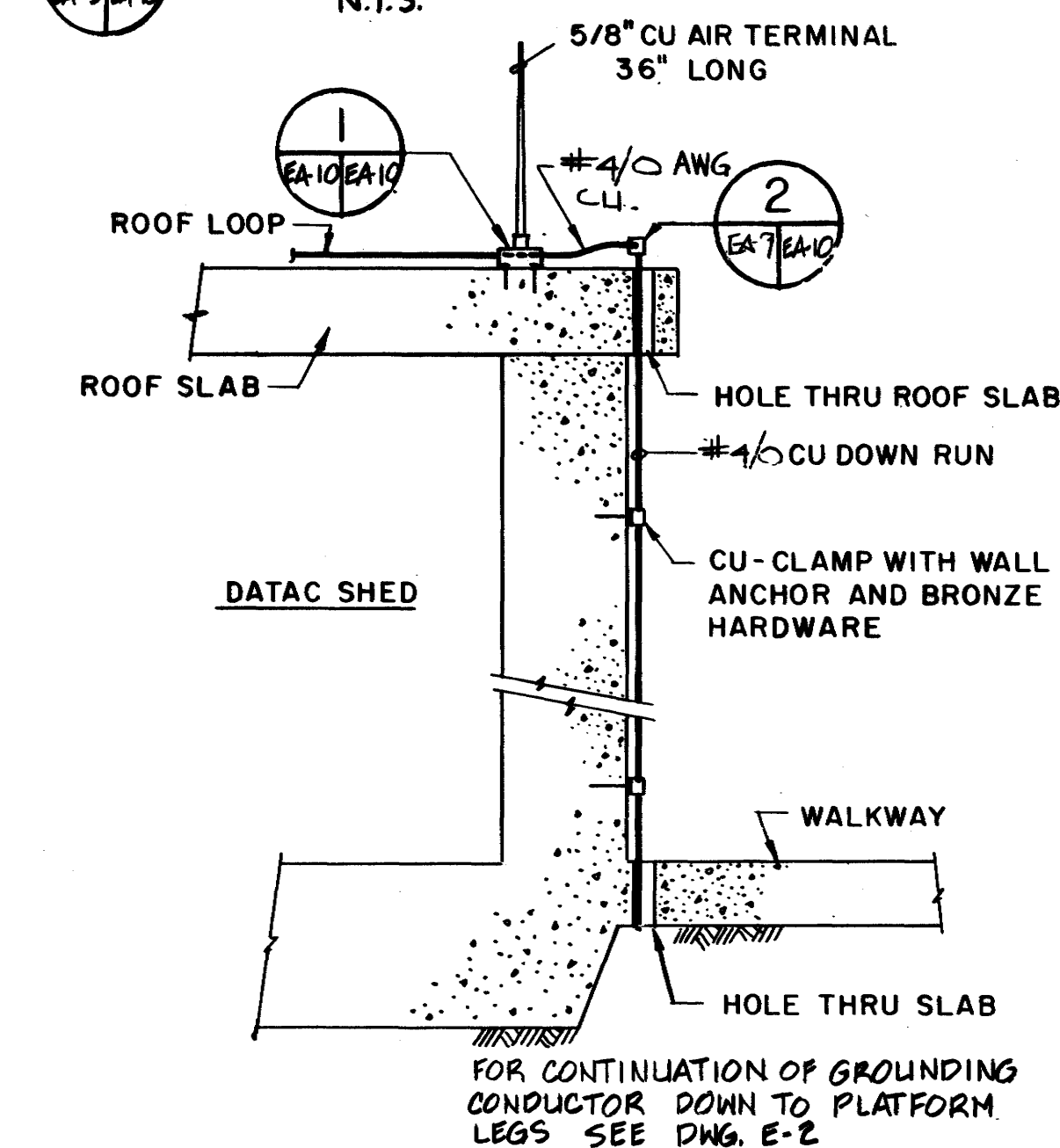
1. FOR DETAILS SEE DRAWING EA-10.
2. FOR LEGEND, ABBREVIATIONS AND EQUIPMENT DESIGNATIONS SEE DWG EA-1.



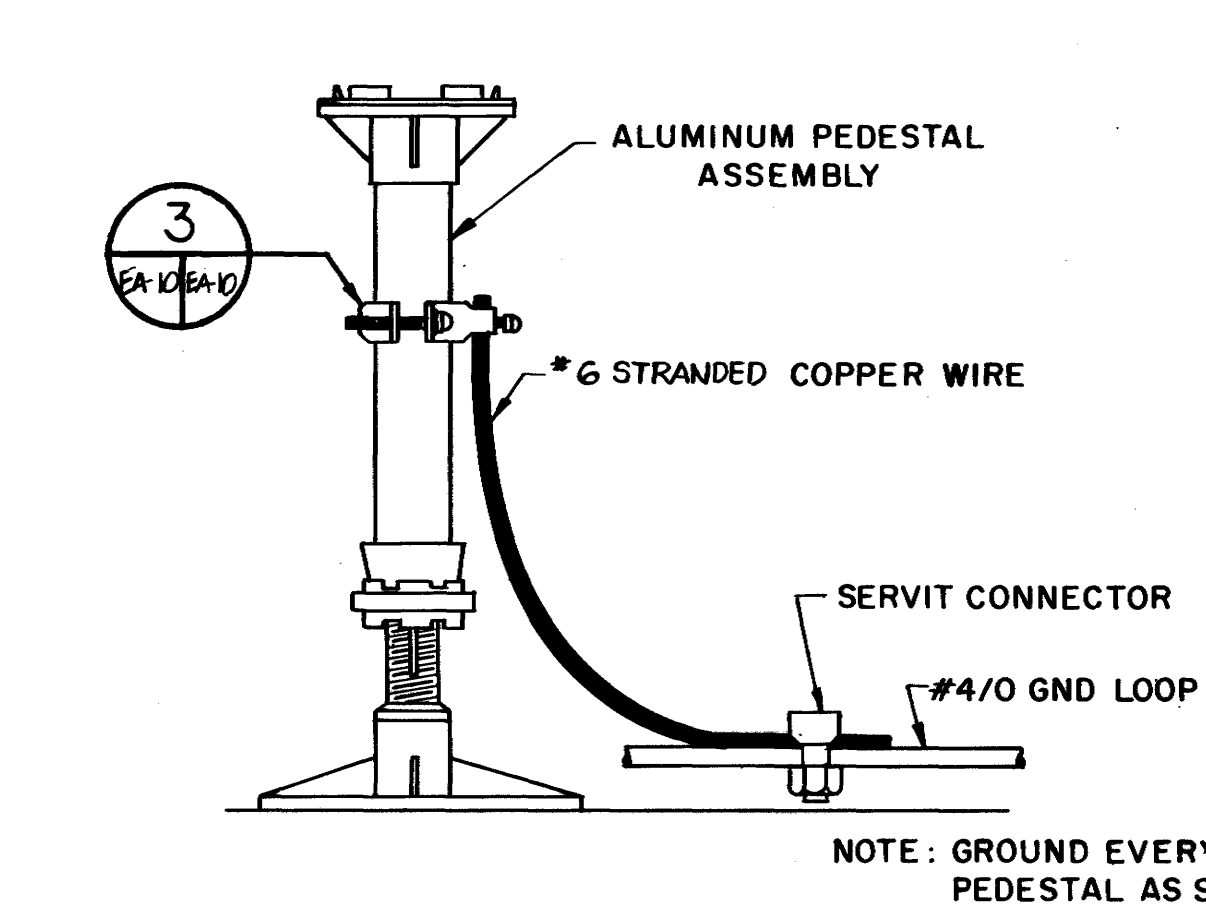
 FLUOR ENGINEERS, INC. HOUSTON DIVISION	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND CHESAPEAKE DIVISION WASHINGTON, D.C.	
	MAGNETIC SILENCING FACILITY	
	NEW LONDON, CT.	
DES W/W DR F.S. CHK H.S. SUBMITTED BY DATE TITLE: PROGRAM MGR. OCEAN ENGR. & CONST. PROJ. OFF. FPO-1 ETC AL BPP RWD 17 APR 69	GROUNDING AND LIGHTNING PROTECTION	
APPROVED HEAD FPO-1  APPROVED DATE R.C. Wagner 17 APR 69 EFD FOR COMMANDER, NAVFAC	SIZE D CODE IDENT. NO. 80091	NAVFAC DRAWING NO. 3050636 CONSTR. CONTR. NO. N62477-86-C-1013
	SCALE AS NOTED	SHEET 50 OF 50



7 AIR TERMINAL & DOWN RUN
N.T.S.

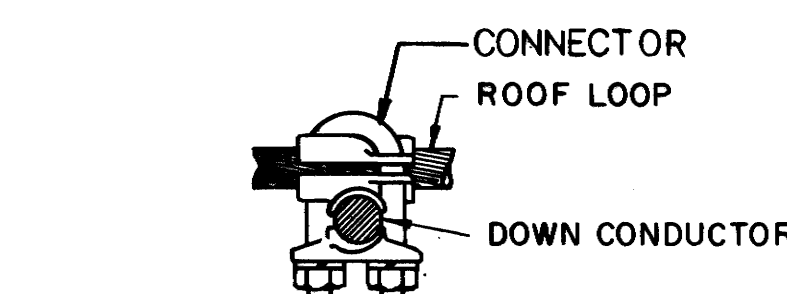


A SECTION
N.T.S.

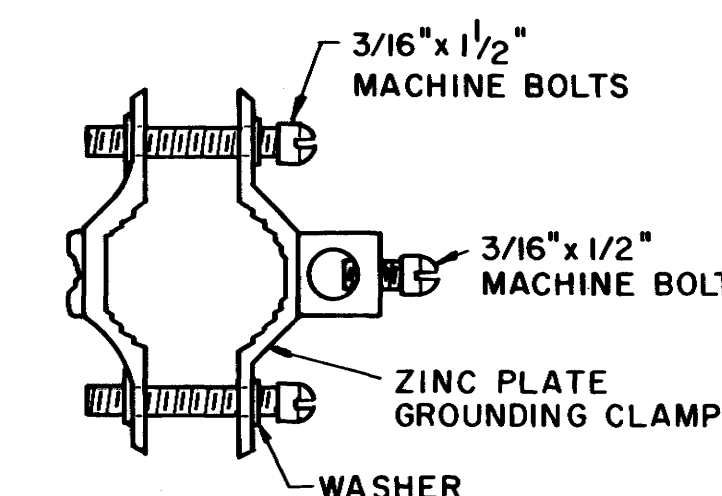


5 RAISED FLOOR PEDESTAL GROUNDING
N.T.S.

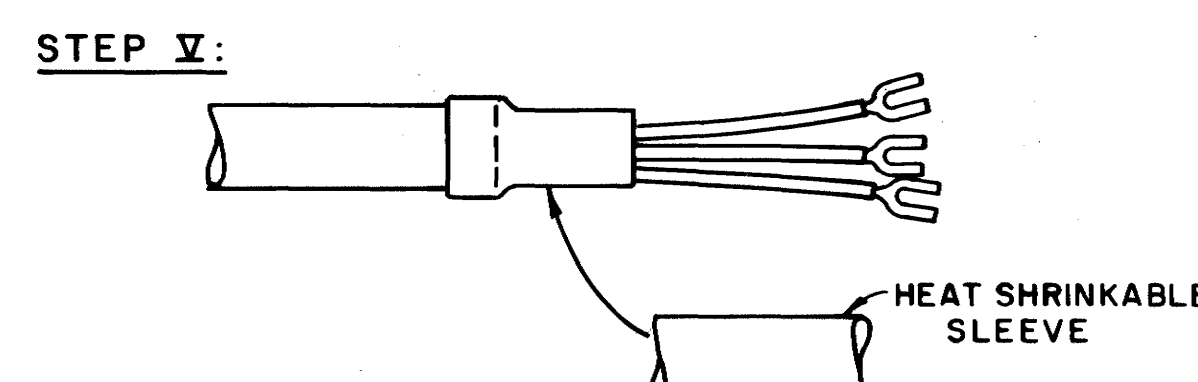
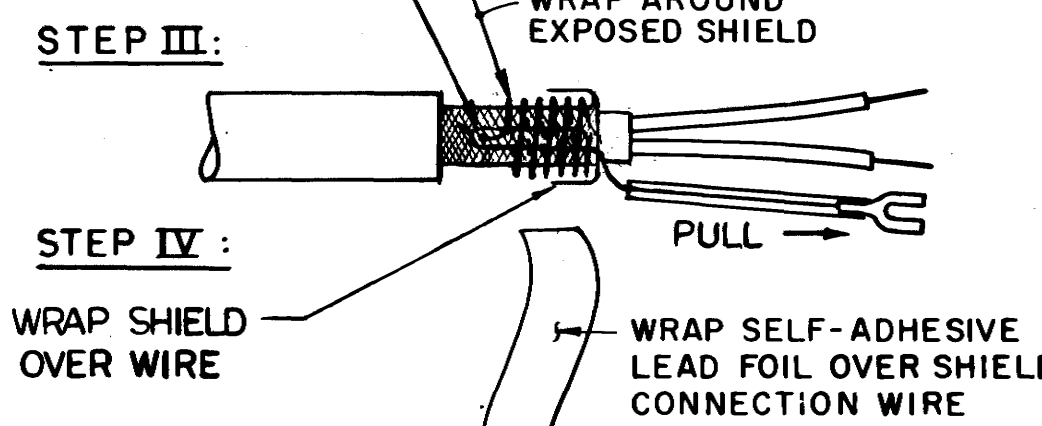
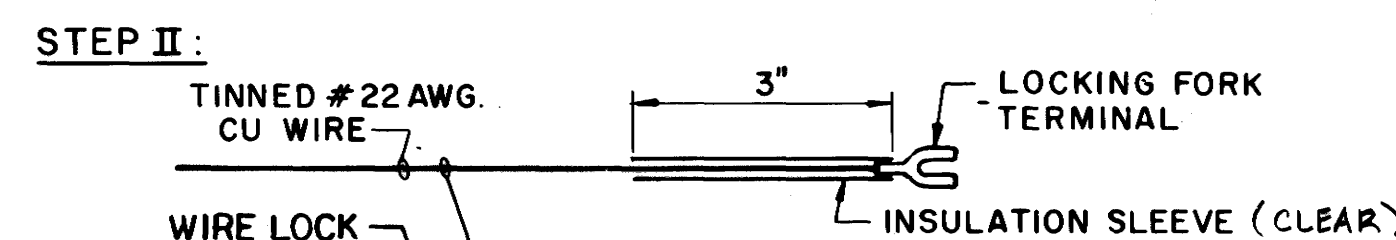
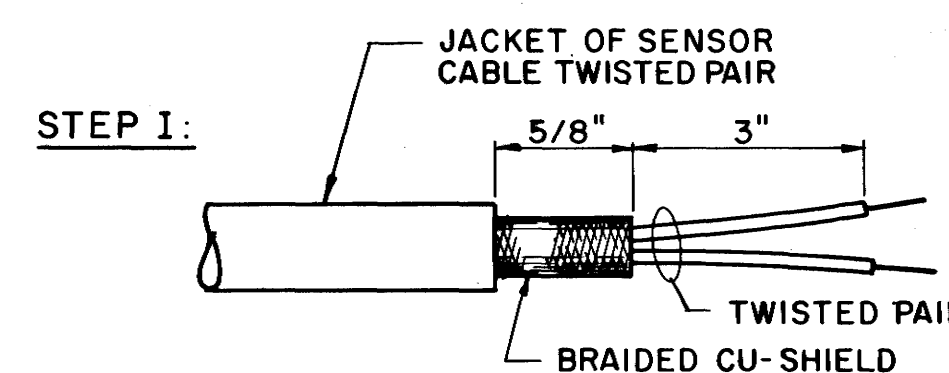
1 DETAIL
N.T.S.



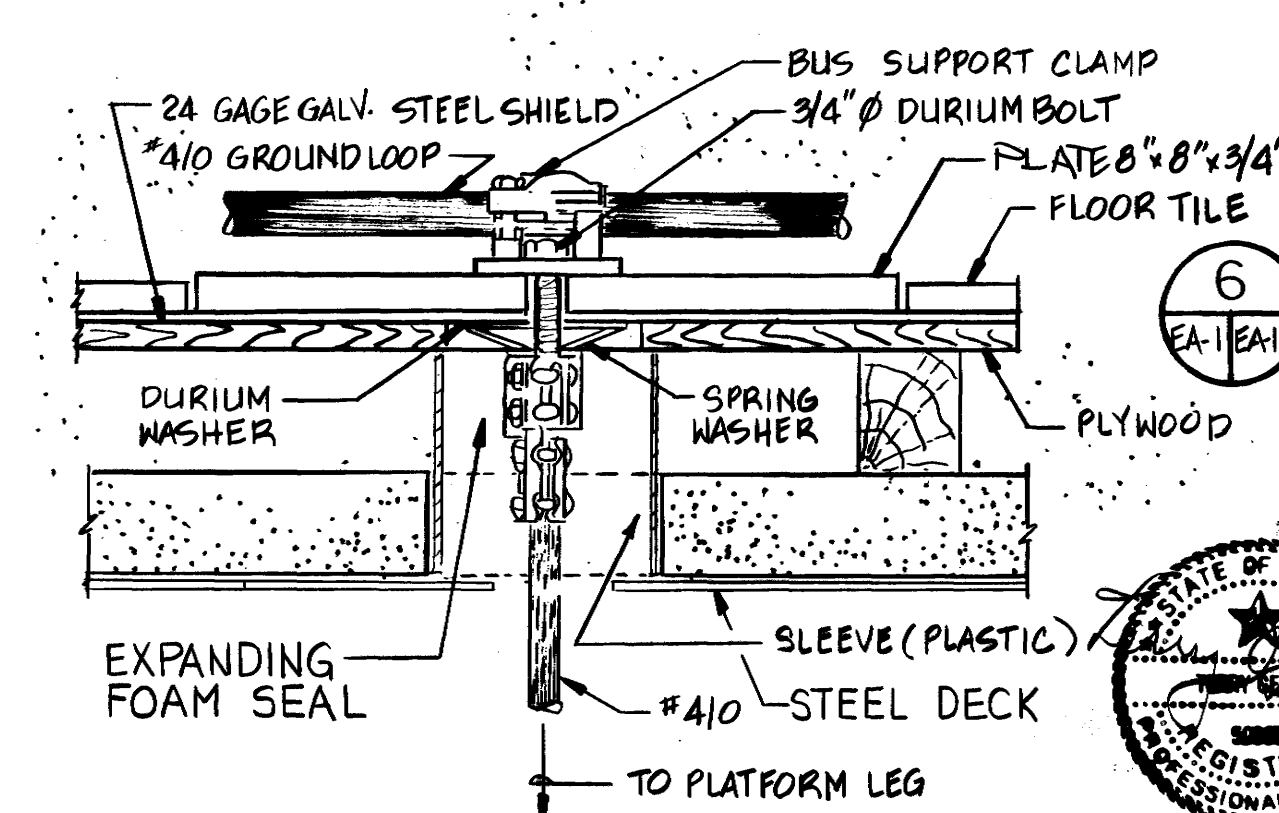
2 DETAIL
N.T.S.



3 DETAIL
N.T.S.

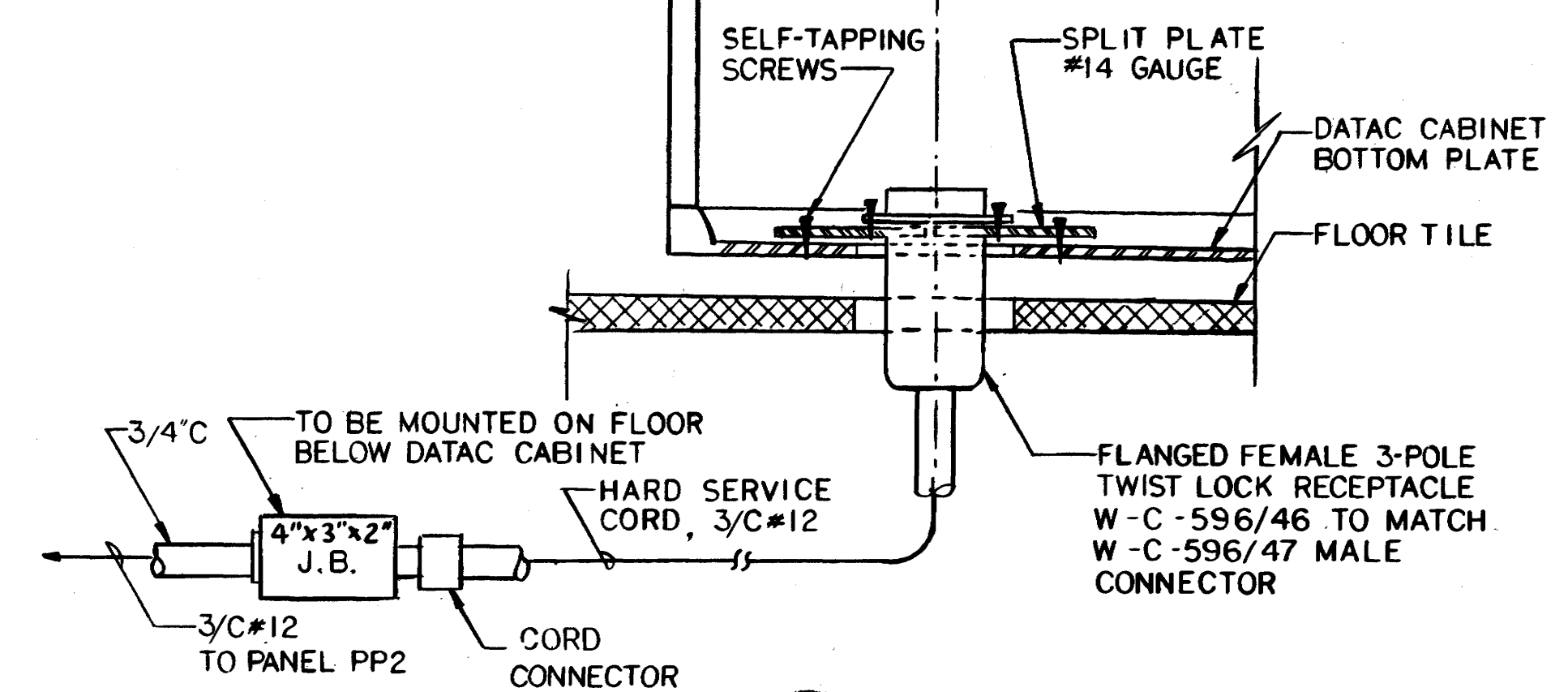


SENSOR CABLE TERMINATION
N.T.S.

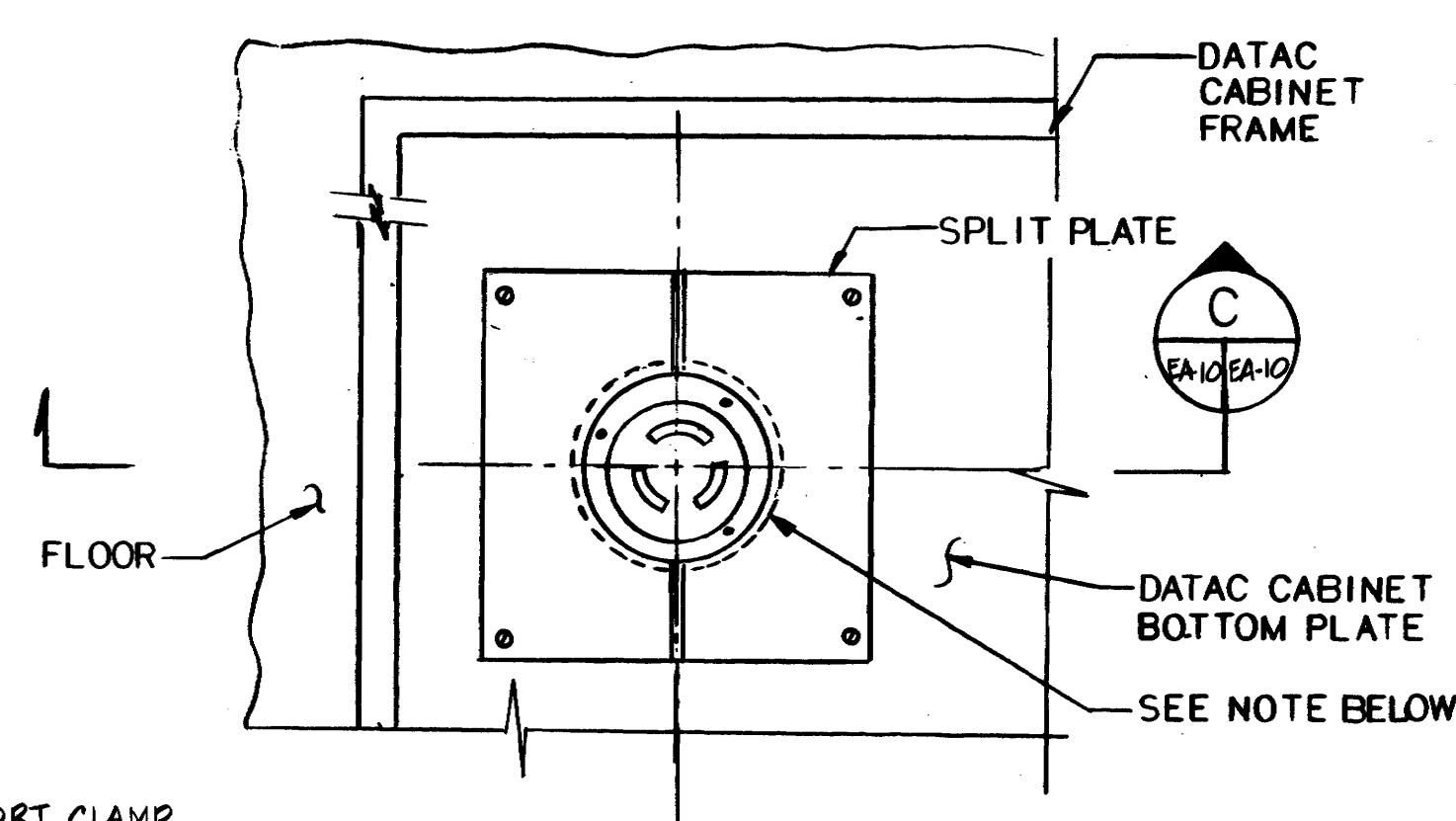


4 GROUND CONNECTIONS TO SHIELD, GND. LOOP & GROUND PLATE
N.T.S.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED

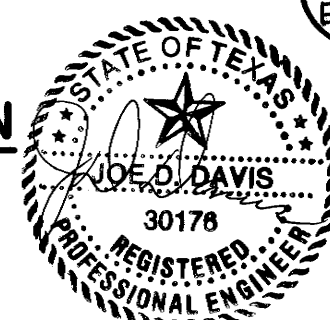
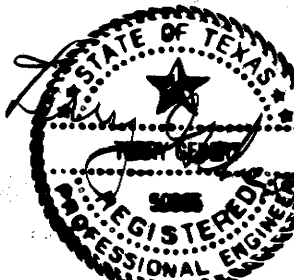


C SECTION
N.T.S.



6 DATA POWER RECEPTACLE
N.T.S.

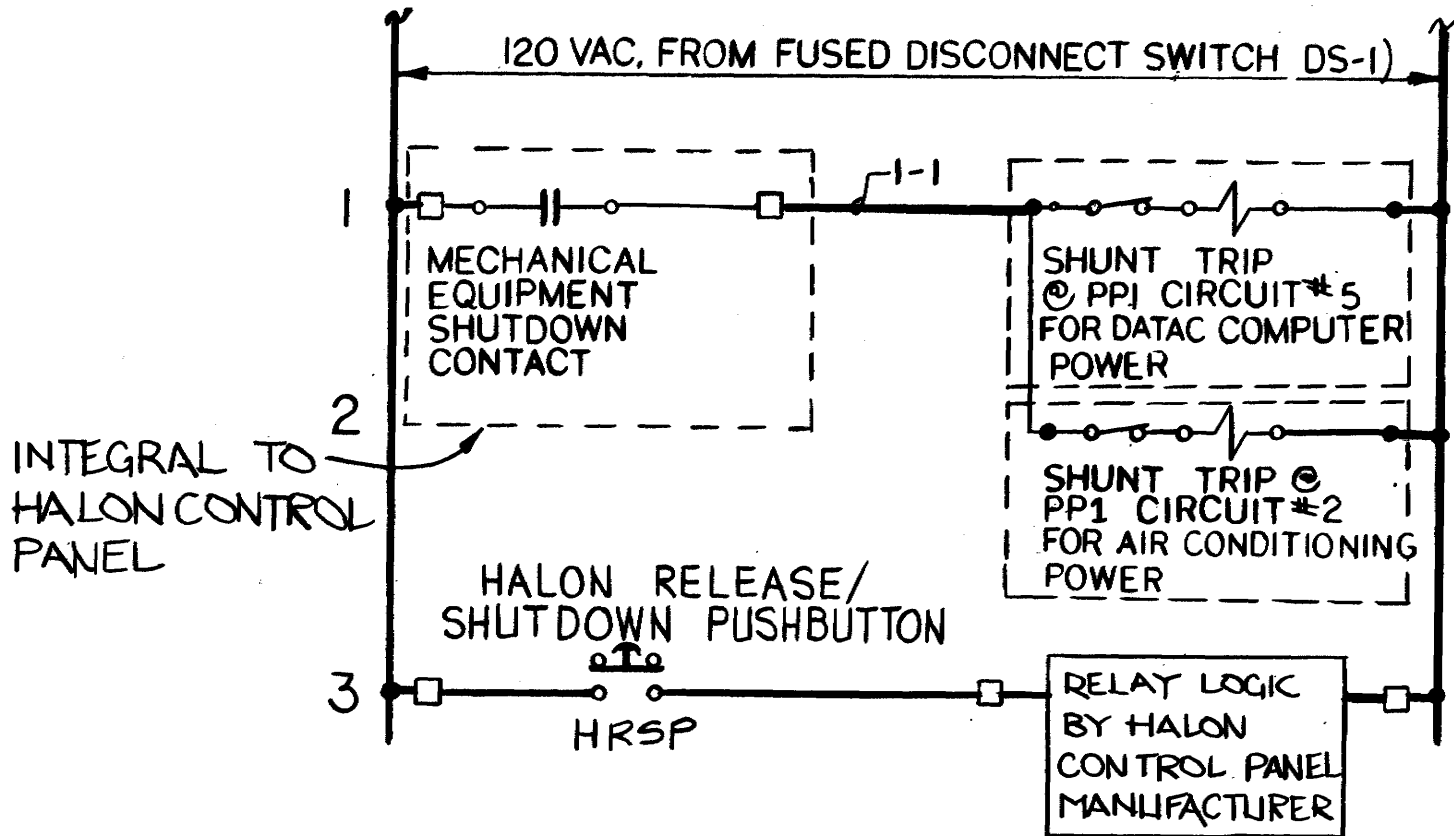
NOTE: CONTRACTOR SHALL INSTALL DATA C POWER RECEPTACLE ASSEMBLIES AFTER DATA C CABINET FRAMES ARE SET IN THEIR FINAL POSITION ON THE SHED FLOOR. PENETRATIONS THROUGH CABINET BOTTOM PLATE AND FLOOR TILES SHALL BE COORDINATED WITH CABINET LOCATIONS. PENETRATION DIAMETERS SHALL BE LARGE ENOUGH TO CLEAR RECEPTACLE FLANGE.



FLUOR ENGINEERS, INC. HOUSTON DIVISION		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND CHESAPEAKE DIVISION WASHINGTON, D.C.	
DES. WW/HIS OR F.S. CHK. H.S. SUBMITTED BY DATE		MAGNETIC SILENCING FACILITY NEW LONDON, CT.	
TITLE: PROGRAM MGR. OCEAN ENGR. & CONST. PROJ. OFF. FPO-1 EIC. <i>W. B. Ford</i> <i>W. B. Ford</i>		MISCELLANEOUS DETAILS	
APPROVED HEAD FPO-1 DATE 17 APR 89 APPROVED DATE 17 APR 89 EFD FOR COMMANDER, NAVFAC		SIZE CODE IDENT. NO. NAVFAC DRAWING NO. D 80091 3050637	
SATISFACTORY TO ROICC DATE SATISFACTORY TO COMNAVSEASCOM DATE		CONSTR. CONTR. NO. N62477-86-C-0103 SPEC. 21-86-0103 SHEET 51 OF 56	

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED

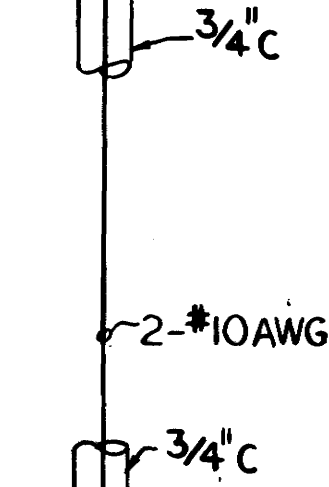
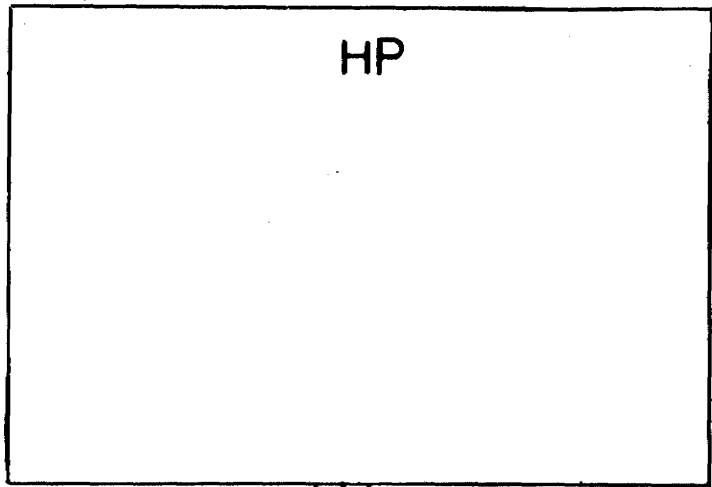


CONTROL SCHEME FOR MECHANICAL EQUIPMENT SHUTDOWN

LEGEND

- MANUFACTURER'S WIRING
- FIELD WIRING
- HALON CONTROL PANEL TERMINAL
- HRSP HALON RELEASE/MECHANICAL EQUIPMENT SHUTDOWN PUSHBUTTON
- SHUNT TRIP COIL CLEARING CONTACT

HALON CONTROL CABINET



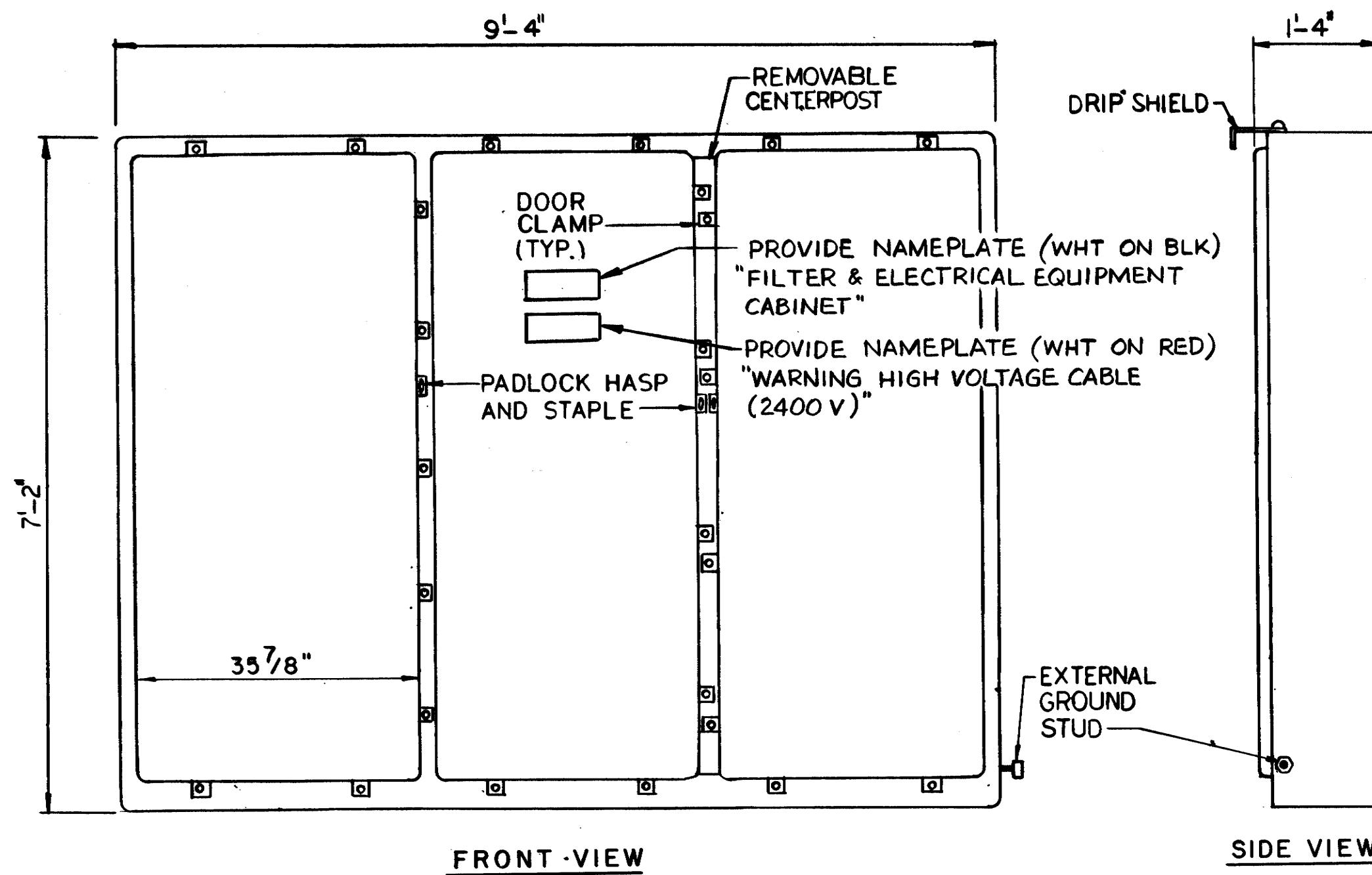
HALON CYLINDER DISCHARGE SOLENOID VALVE



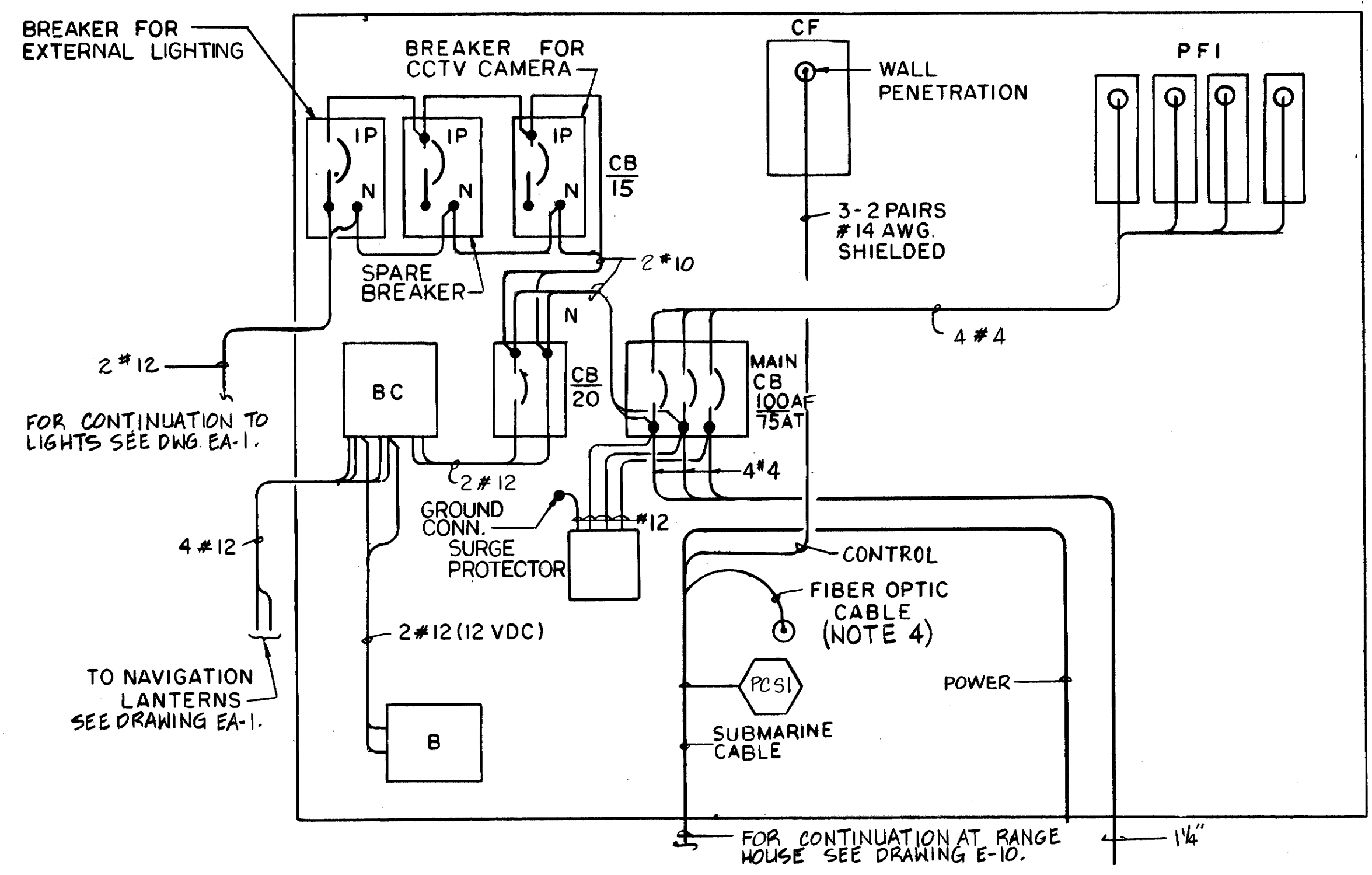
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FLUOR ENGINEERS, INC. HOUSTON DIVISION		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND CHESAPEAKE DIVISION WASHINGTON, D.C.	
DES. WW/H.S. OR F.S. DATE SUBMITTED BY TITLE: PROGRAM MGR. OCEAN ENGR. & CONST. PROJ. OFF. FPO-1 ETC. <i>ALB</i> RVD <i>10</i> <i>4/10/89</i>	DATE DATE DATE	SIZE CODE IDENT. NO. D 80091	NAVFAC DRAWING NO. 3050639
SATISFACTORY TO ROICC DATE SATISFACTORY TO COMNAVSEASYS COM DATE	APPROVED HEAD FPO-1 DATE APPROVED DATE EFD FOR COMMANDER, NAVFAC	CONSTR. CONTR. NO. N62477-86-C-0103 SCALE NOT TO SCALE SPEC. 21-86-0103	NEW LONDON, CT. HALON DISCHARGE DEACTIVATING CONTROLS EA-12 SHEET 53 OF 56

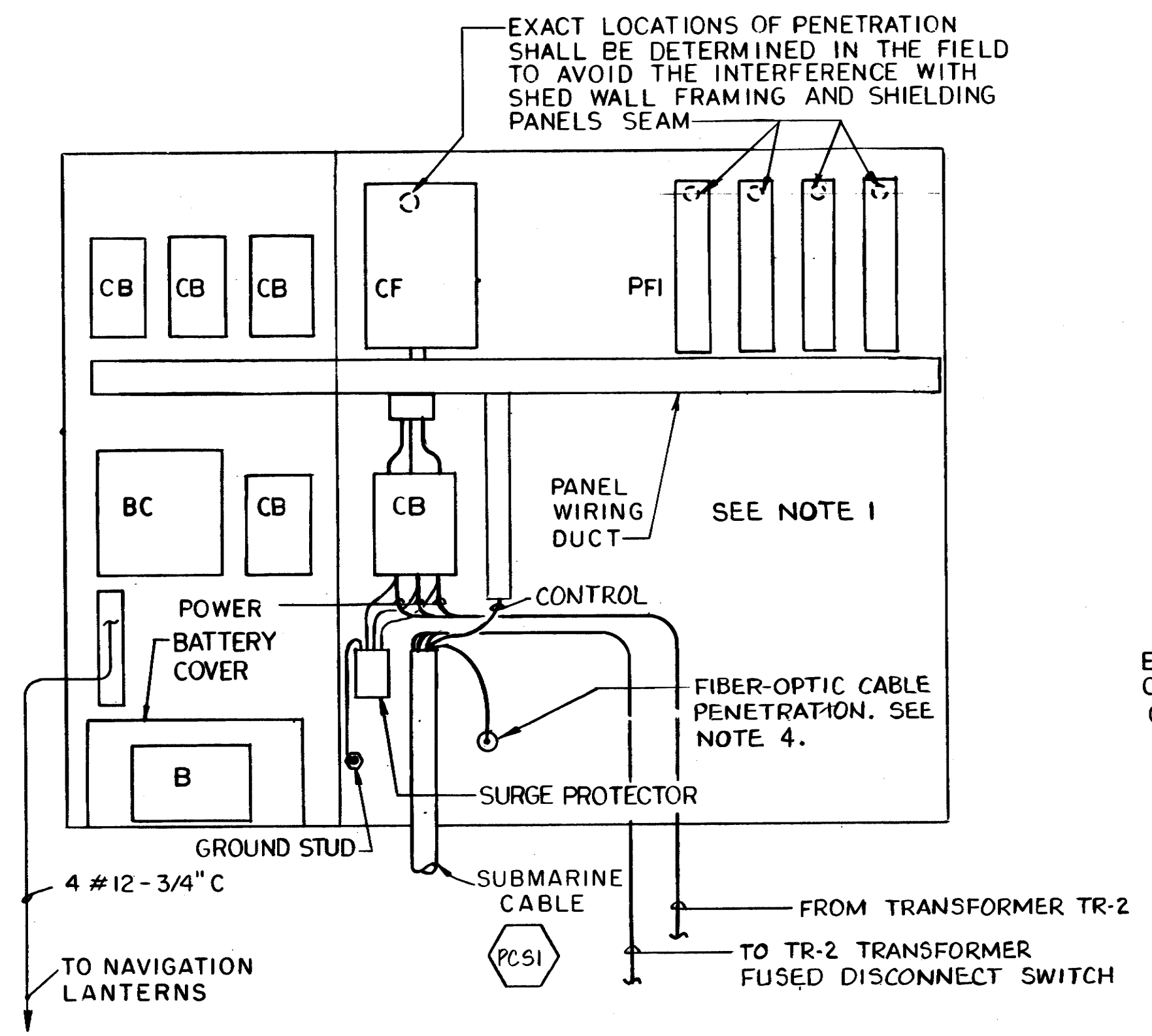
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



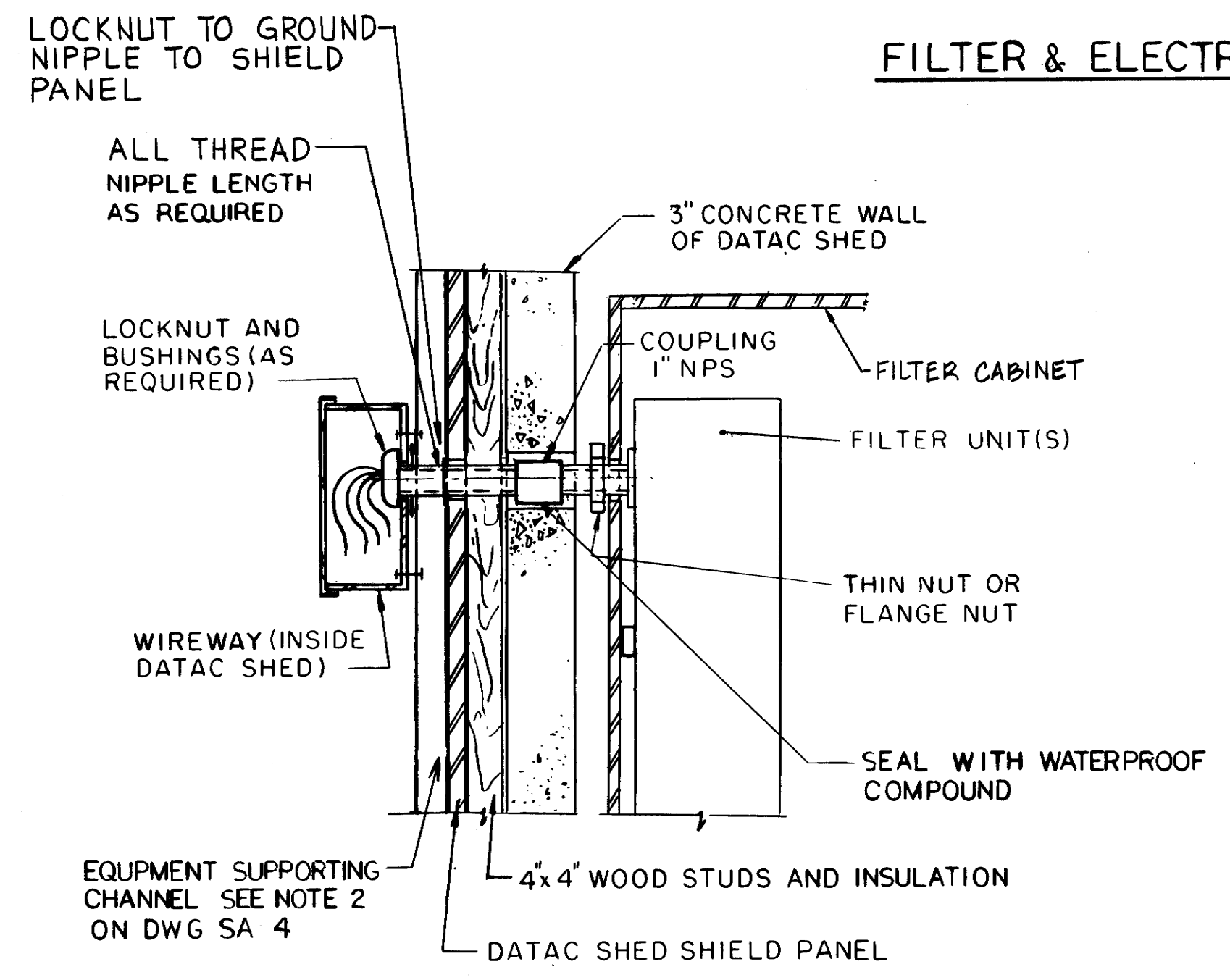
FRONT VIEW
SIDE VIEW
FILTER & ELECTRICAL EQUIPMENT CABINET
SCALE: 3/4"=1'-0"



FILTER & ELECTRICAL EQPT CABINET INTERNAL WIRING
N.T.S.

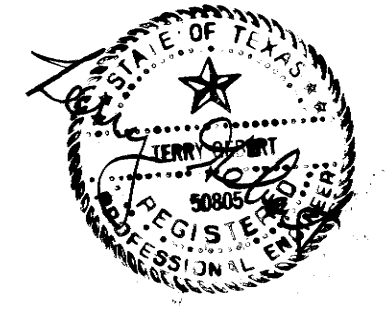
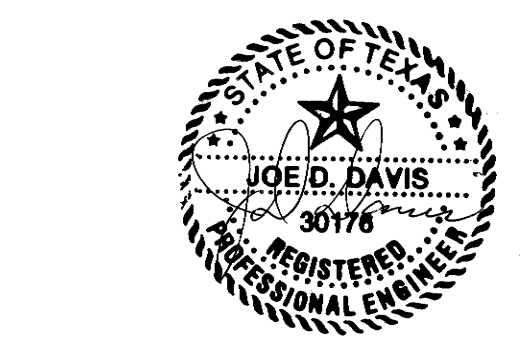


FILTER & ELECTRICAL EQPT. CABINET
ARRANGEMENT OF INTERIOR EQUIPMENT
SCALE: 3/4"=1'-0"



TYPICAL FILTER PENETRATION
(THROUGH REAR OF FILTER & ELECTRICAL EQPT. CABINET AND DATAC SHED WALL)
N.T.S.

- NOTES:**
1. MAXIMUM DEPTH OF ANY EQUIPMENT OR DEVICE INSTALLED IN FILTER & ELECTRICAL EQPT. CABINET SHALL NOT EXCEED 8 1/2 INCHES. PROPER ELECTRICAL CLEARANCES MUST BE MAINTAINED.
 2. FOR LEGEND, ABBREVIATIONS AND EQUIPMENT DESIGNATIONS SEE DWG. EA-1.
 3. FOR CABLE SCHEDULE SEE DWG. E-7.
 4. ROUTE FIBER OPTIC CABLE THROUGH WALL PENETRATION AND UNDER COMPUTER FLOORING TO DATAC. COIL 20' AND TERMINATE PER DETAIL 1 ON DRAWING EA-14

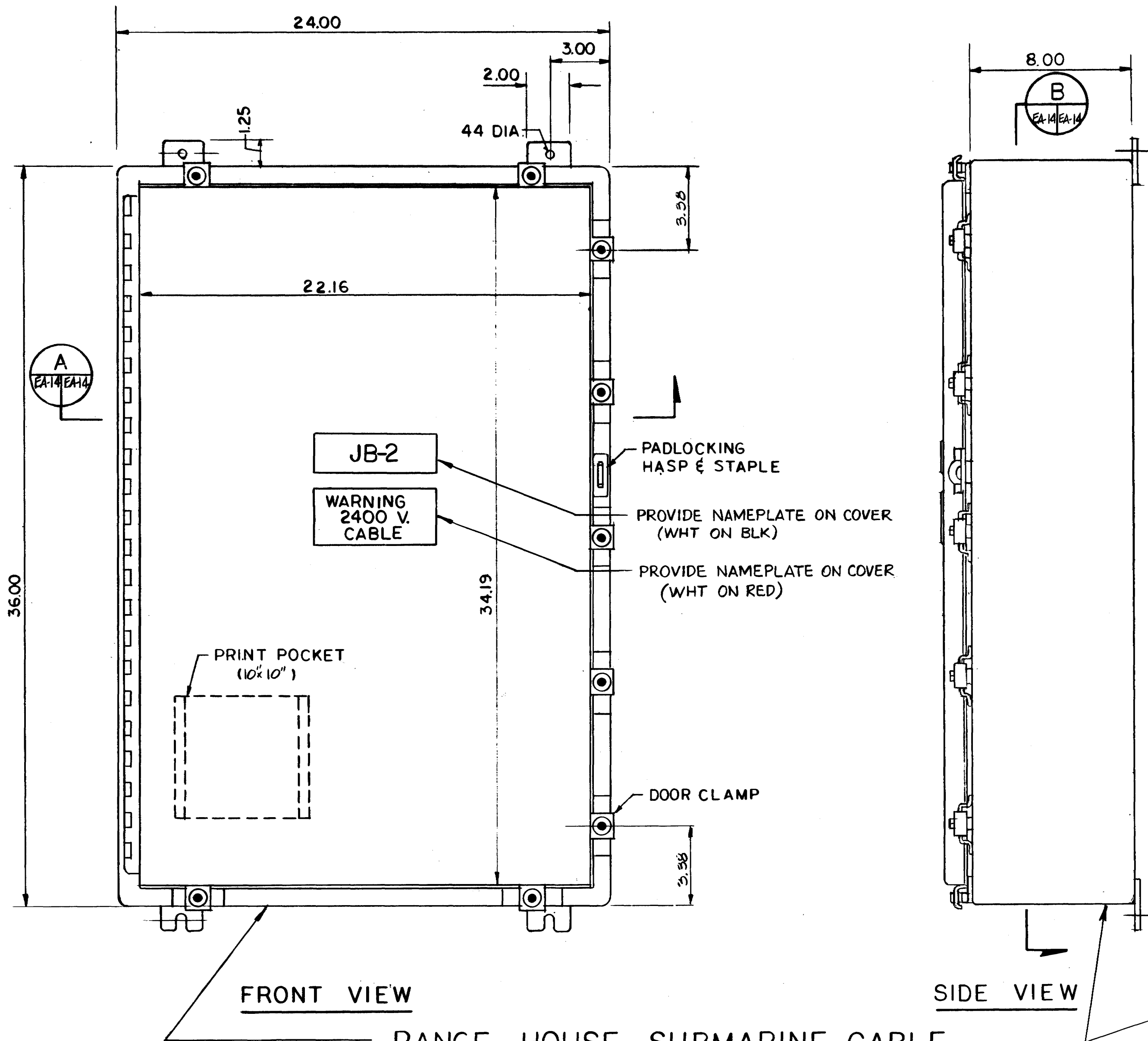


SATISFACTORY TO ROICC DATE 4/18/89 DATE 17 APR 89 COMNAVSEASYSOM		APPROVED HEAD FPO-1 DATE 17 APR 89 APPROVED DATE 17 APR 89 EFD FOR COMMANDER, NAVFAC		SIZE CODE IDENT. NO. D 80091		NAVFAC DRAWING NO. 3050640		EA-13	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND CHESAPEAKE DIVISION WASHINGTON, D.C.		MAGNETIC SILENCING FACILITY NEW LONDON, CT		FILTER & ELECTRICAL EQUIPMENT CABINET		CONSTR. CONTR. NO. N62477-86-C-0103		SPEC. 21-86-0103 SHEET 54 OF 56	

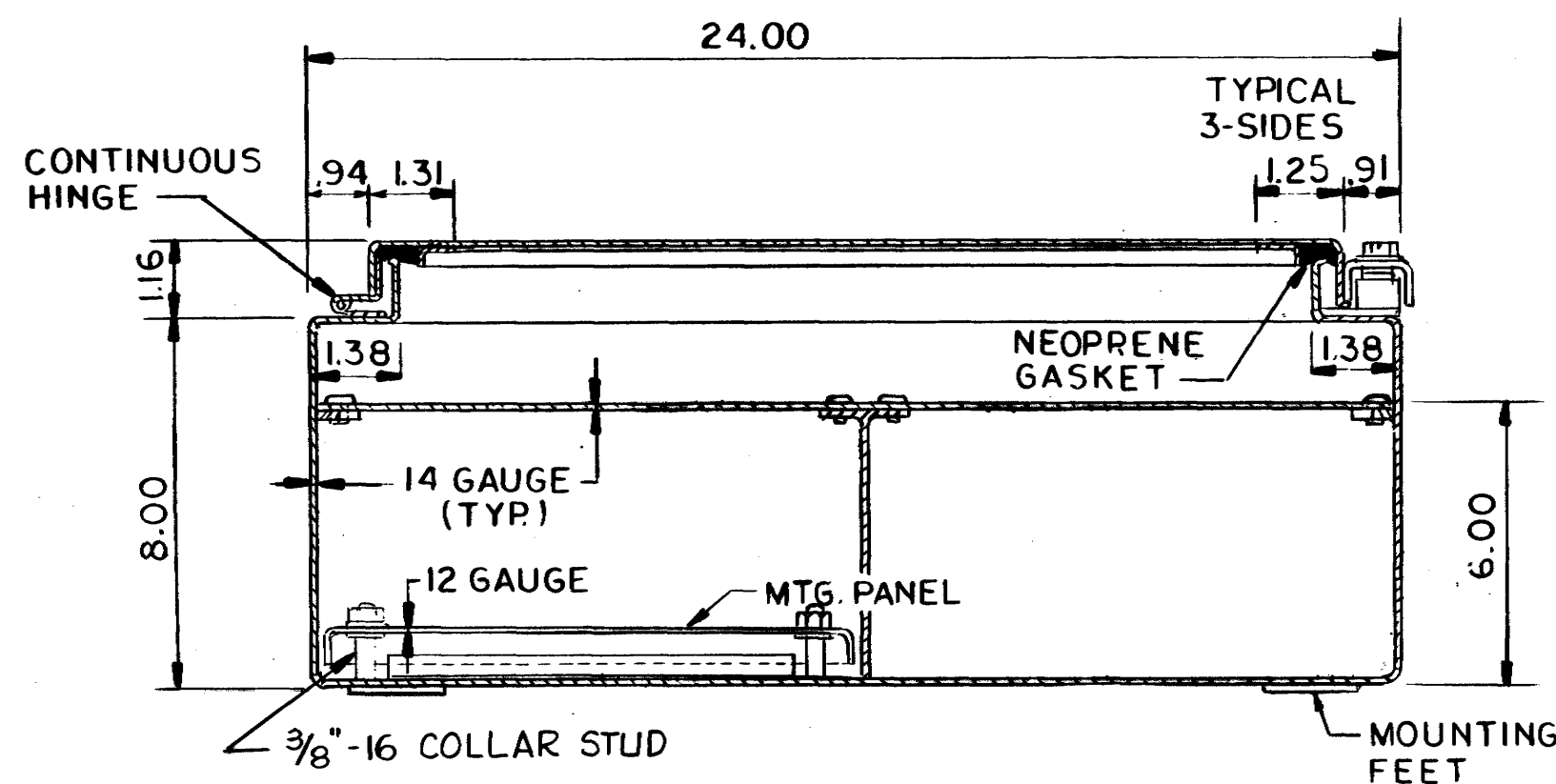
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FLUOR ENGINEERS, INC. HOUSTON DIVISION		DES. WW/H.S. OR F.S. CHK. H.S. SUBMITTED BY DATE TITLE: PROGRAM MGR. OCEAN ENGR. & CONST. PROJ. OFF. FPO-1 ETC. <i>W. B. RVD</i> <i>W. B. RVD</i> <i>W. B. RVD</i>		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND CHESAPEAKE DIVISION WASHINGTON, D.C.		MAGNETIC SILENCING FACILITY NEW LONDON, CT		FILTER & ELECTRICAL EQUIPMENT CABINET	
SATISFACTORY TO ROICC DATE 4/18/89 DATE 17 APR 89 COMNAVSEASYSOM		APPROVED HEAD FPO-1 DATE 17 APR 89 APPROVED DATE 17 APR 89 EFD FOR COMMANDER, NAVFAC		SIZE CODE IDENT. NO. D 80091		NAVFAC DRAWING NO. 3050640		EA-13	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND CHESAPEAKE DIVISION WASHINGTON, D.C.		MAGNETIC SILENCING FACILITY NEW LONDON, CT		FILTER & ELECTRICAL EQUIPMENT CABINET		CONSTR. CONTR. NO. N62477-86-C-0103		SPEC. 21-86-0103 SHEET 54 OF 56	

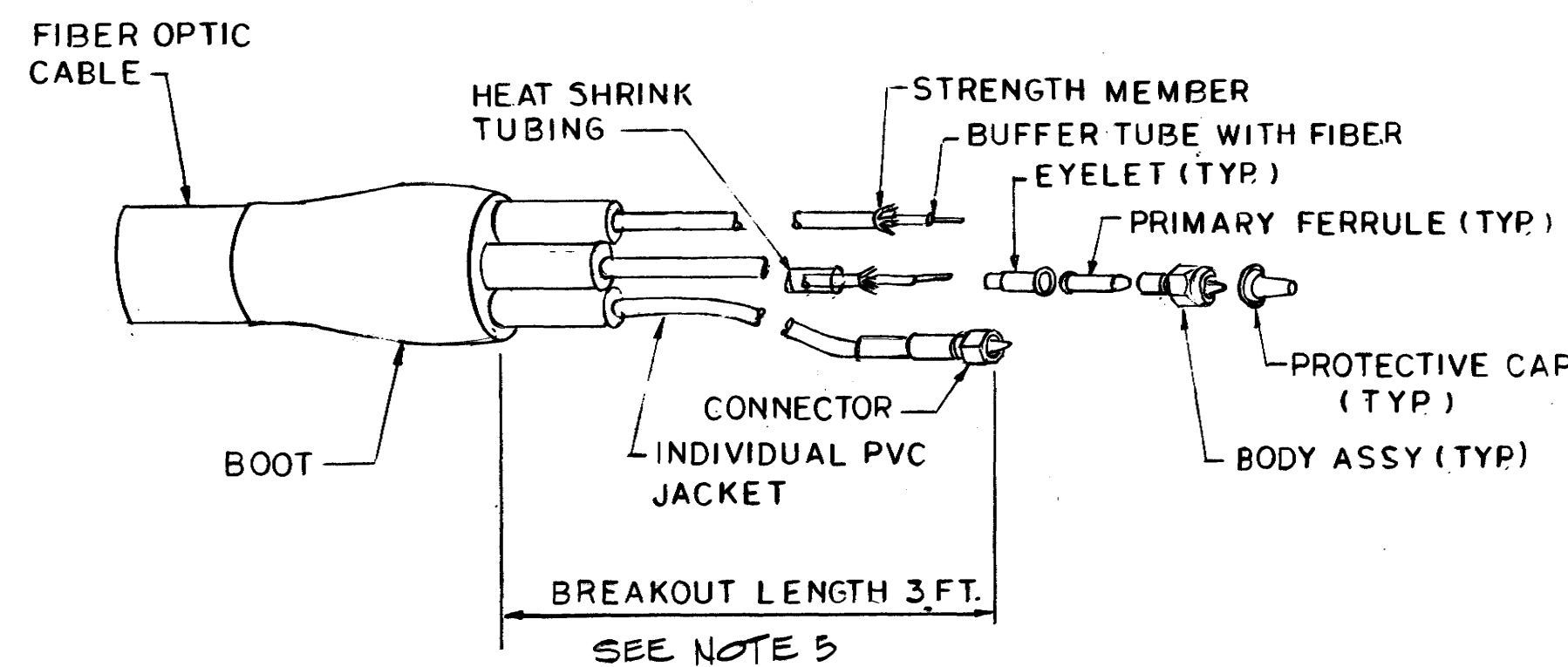
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



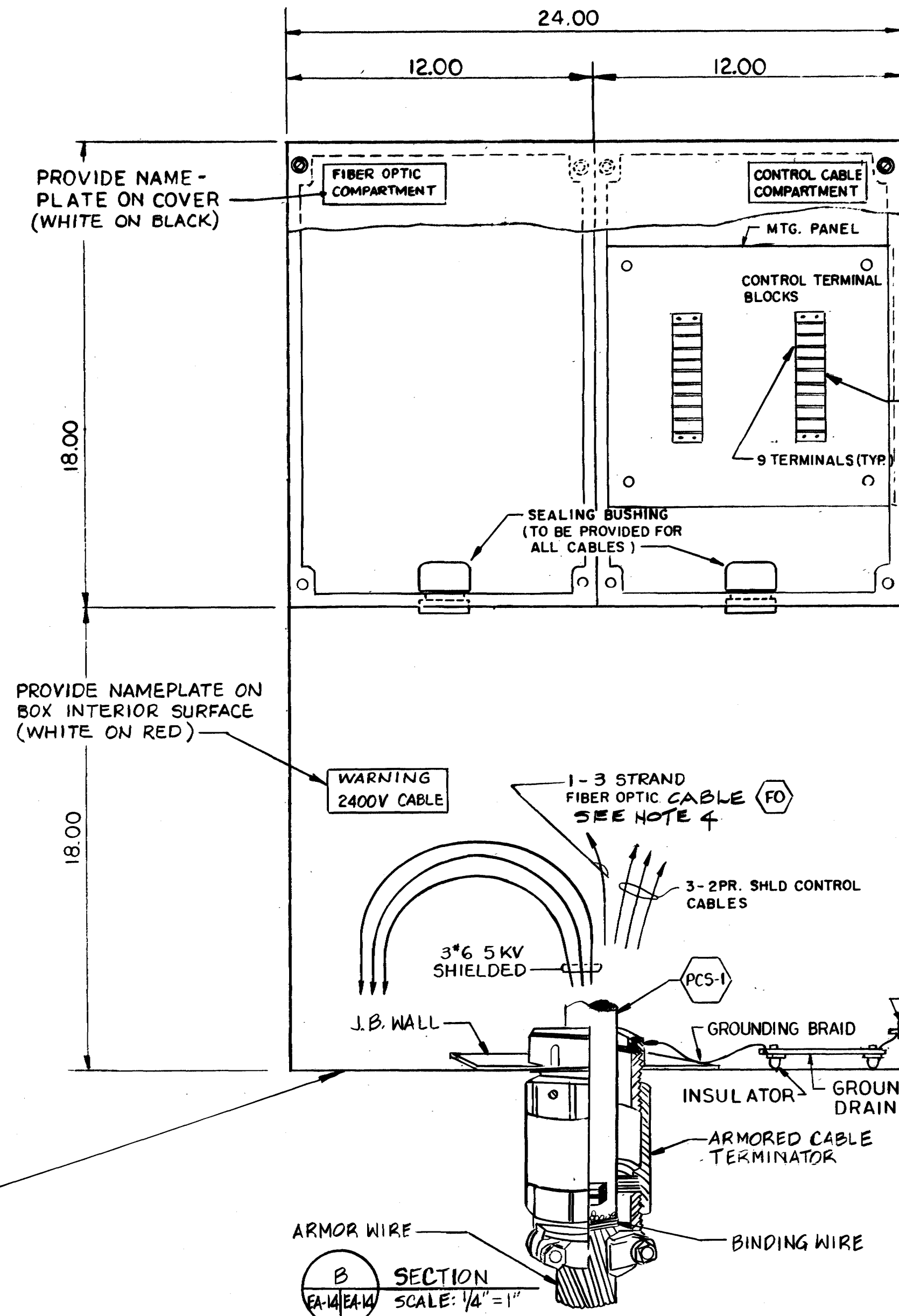
**RANGE HOUSE SUBMARINE CABLE
TERMINATION JUNCTION BOX (JB-2)**
SCALE: 1/4"=1"



A SECTION
EA-14/EA-14
SCALE: 1/4"=1"

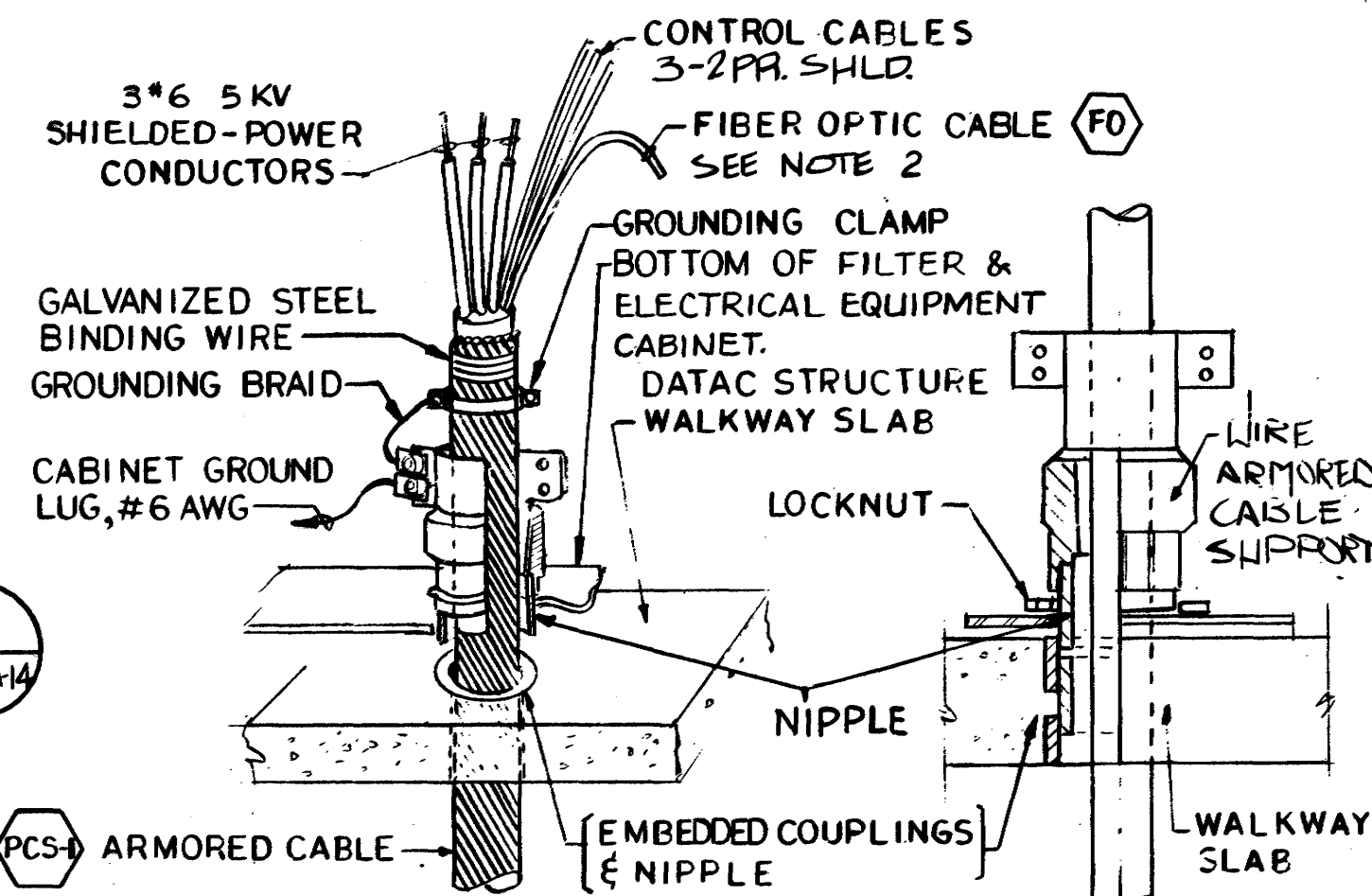


I TERMINATION OF FIBER OPTIC CABLE
N.T.S.

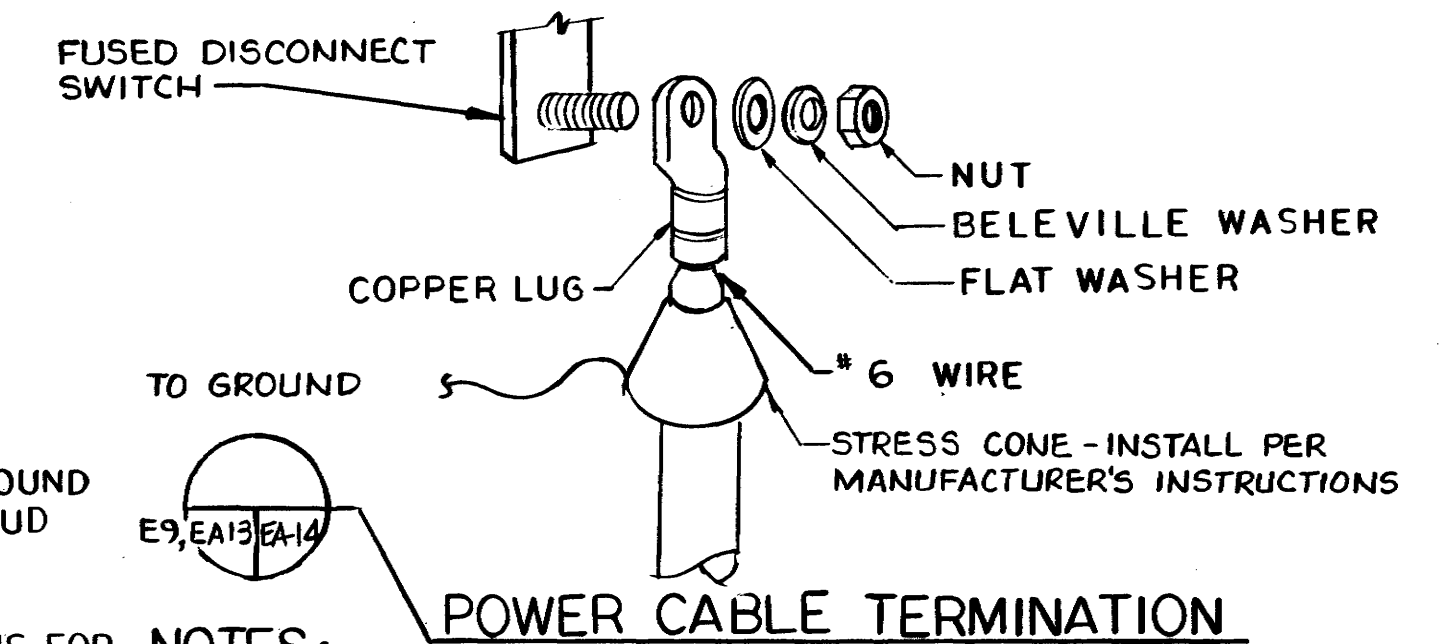


B SECTION
EA-14/EA-14
SCALE: 1/4"=1"

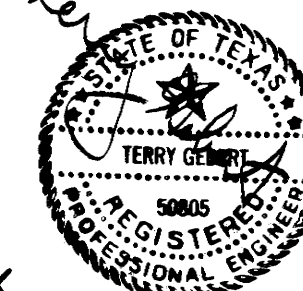
**2 CONTROL TERMINAL BLOCK
AND TERMINATION**
N.T.S.



**DATA OFFSHORE STRUCTURE
SUBMARINE CABLE ENTRY ARRANGEMENT**
N.T.S.



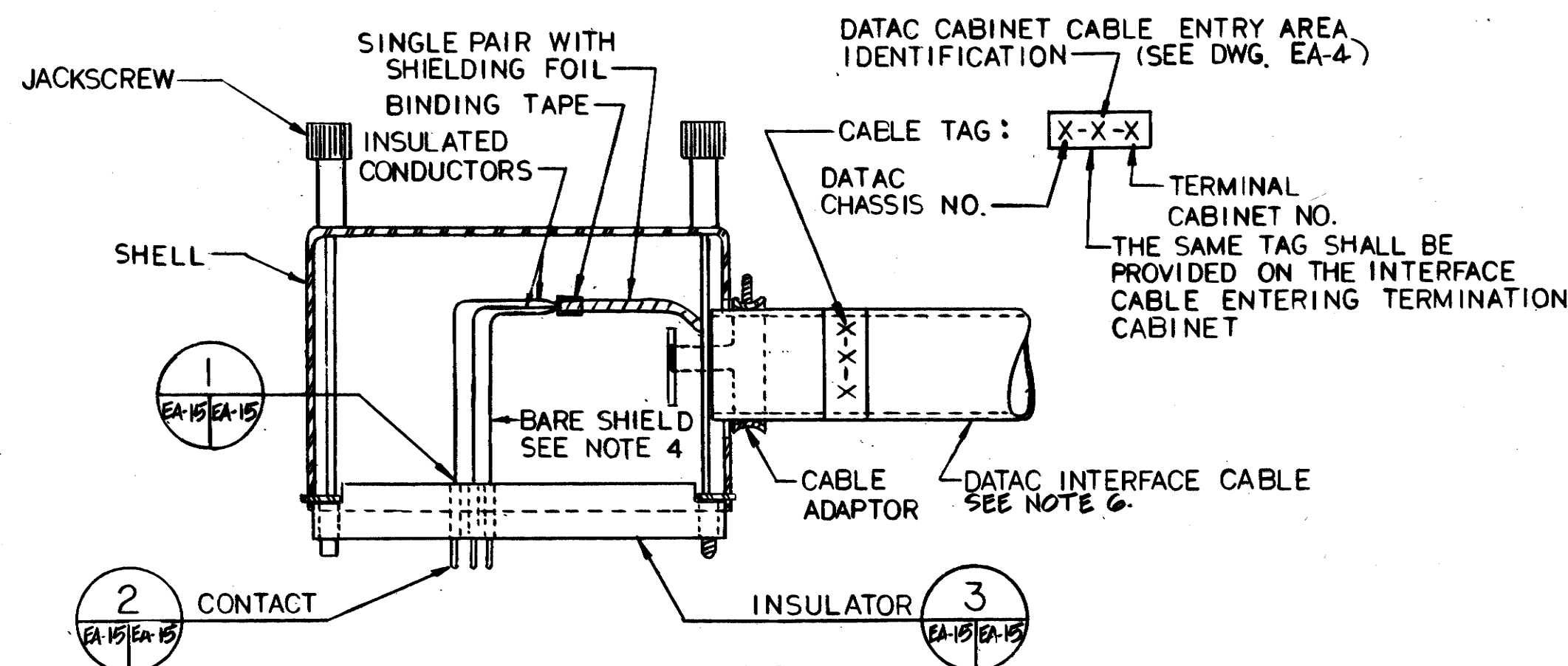
- NOTES:**
1. WIRE ARMORED CABLE SUPPORT SHALL BE USED FOR ON-SHORE SUBMARINE CABLE TERMINATION. FITTING SHALL BE SUITABLE FOR WIRE ARMOR TERMINATION AND GROUNDING.
 2. OFF-SHORE DATAC FIBER OPTIC CABLE TERMINATION SHALL BE SIMILAR TO DETAIL 1 THIS DWG.
 3. RANGE HOUSE SUBMARINE CABLE TERMINATION BOX SHALL BE PROPERLY GROUNDED. ALL OF THE POWER AND CONTROL CONDUCTORS, AND SHIELDS SHALL BE TERMINATED AT THE TERMINAL BLOCKS.
 4. FIBER OPTIC CABLE (FO) WILL NOT BE TERMINATED IN THIS BOX, BUT WILL BE ROUTED UP TO SECOND FLOOR. SEE DWG E-5.
 5. FOR PROTECTION OF FIBER OPTIC CABLE TERMINATION, CONTRACTOR SHALL PROVIDE OVERALL MOISTURE RESISTANT PROTECTIVE BOOT.



FLUOR ENGINEERS, INC. HOUSTON DIVISION DES. BY: [Signature] OR: [Signature] CHK. BY: [Signature] SUBMITTED BY: [Signature] DATE: 17 APR 89 OCEAN ENGR. & CONST. PROJ. OFF. FPO-1 ETC. [Signature] [Signature] [Signature]		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND CHESAPEAKE DIVISION WASHINGTON, D.C. MAGNETIC SILENCING FACILITY NEW LONDON, CT. SUBMARINE CABLE TERMINATION DETAILS	
APPROVED HEAD FPO-1 [Signature] DATE: 17 APR 89 APPROVED [Signature] DATE: 17 APR 89 EFD FOR COMMANDER, NAVFAC	SIZE: D CODE IDENT. NO.: 80091 NAVFAC DRAWING NO.: 3050641 CONSTR. CONTR. NO.: N62477-86-C-0103 SPEC. 21-86-0103 SHEET 55 OF 56	EA-14	

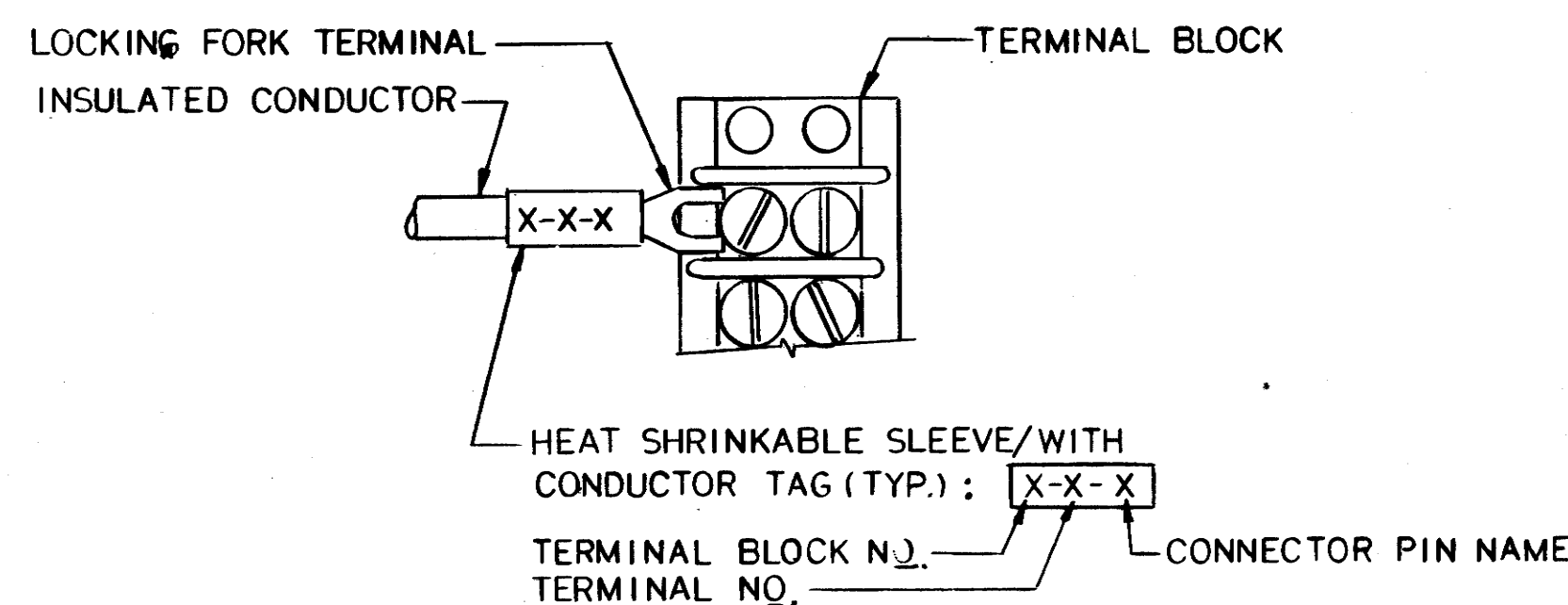
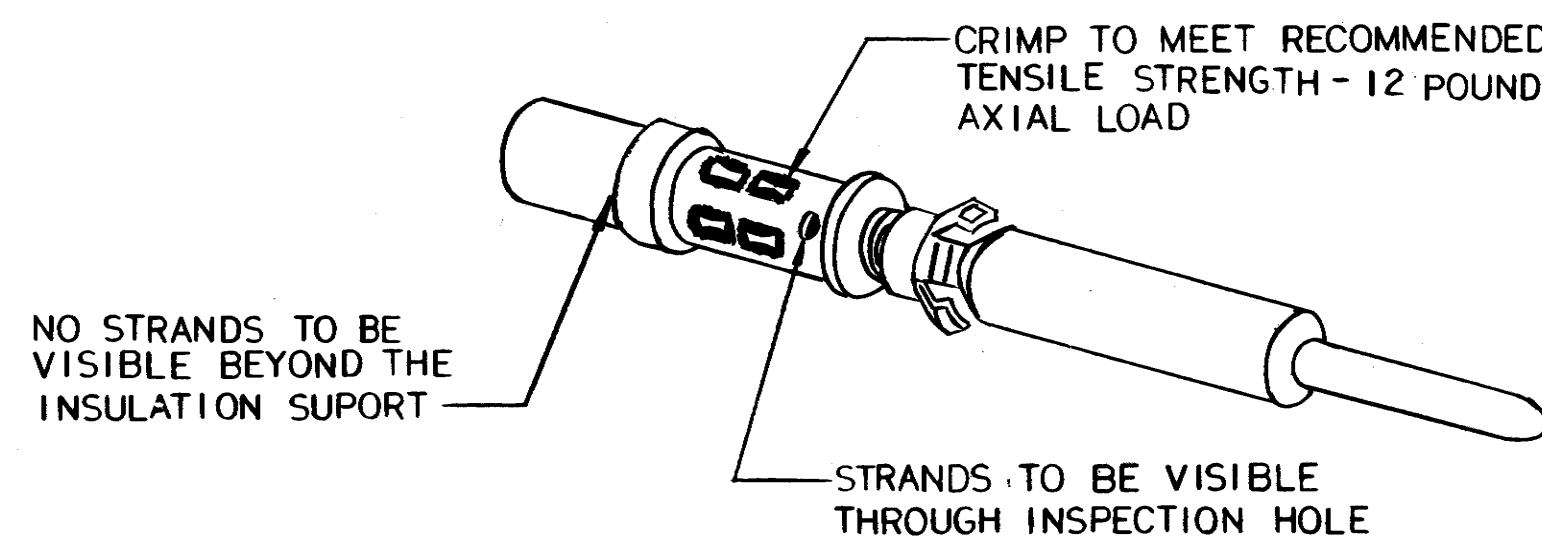
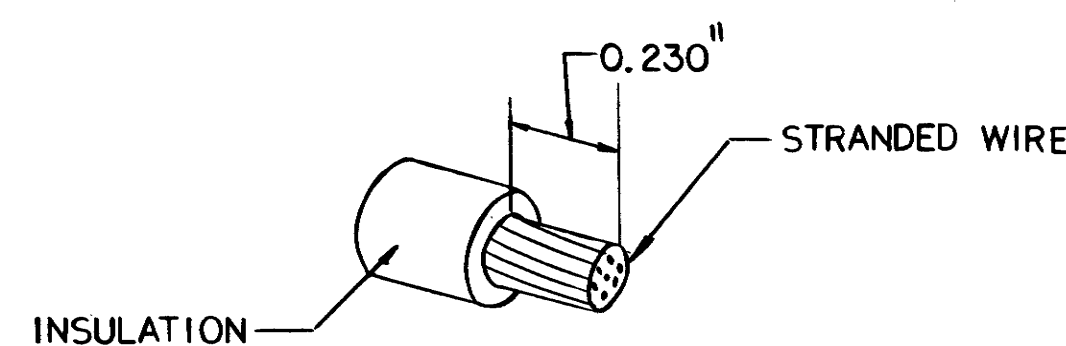
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SATISFACTORY TO [Signature] ROICC DATE: 4/18/89	DATE: 4/18/89
SATISFACTORY TO [Signature] COMNAVSASYSOCOM	DATE: 4/18/89



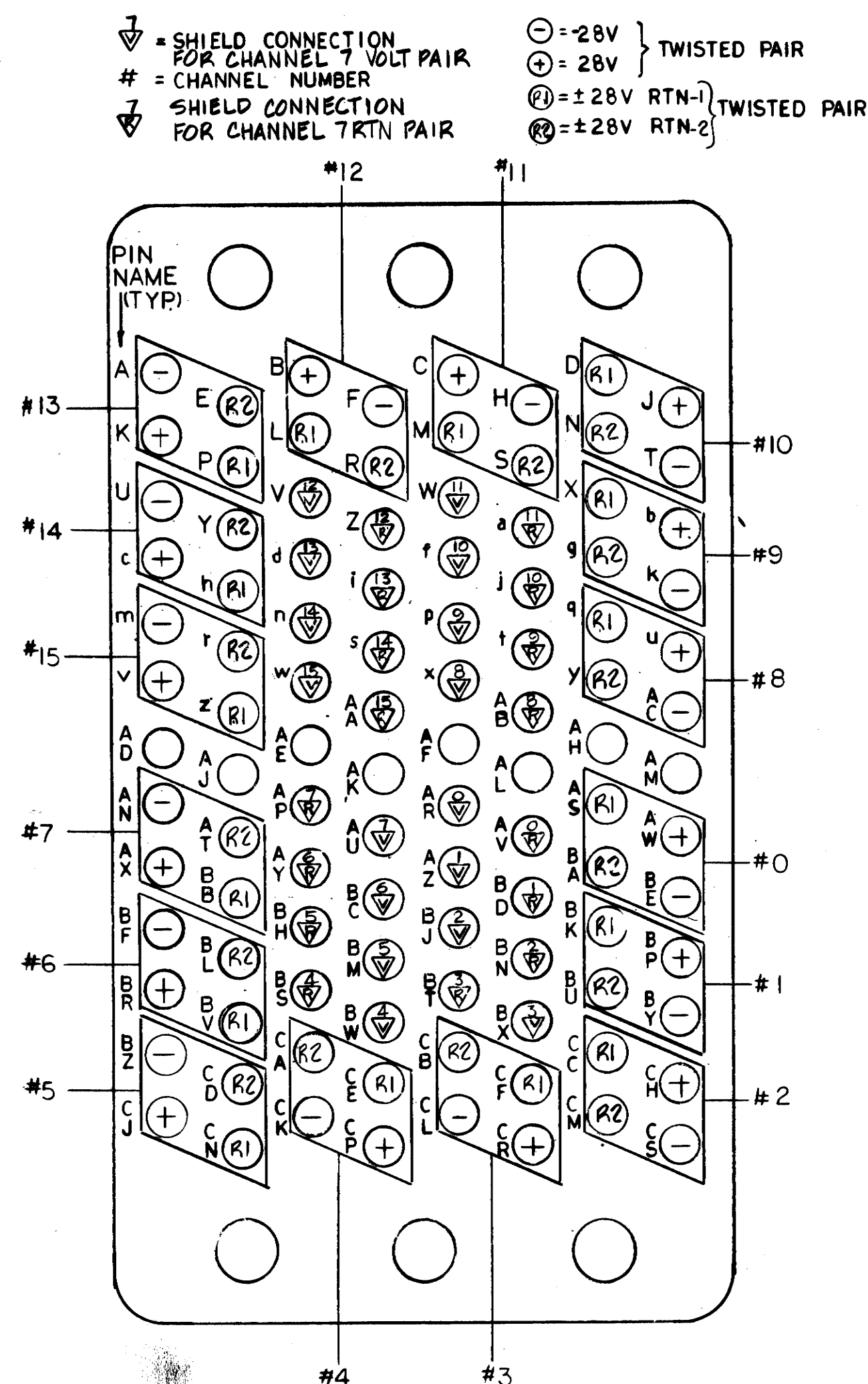
INTERFACE CABLE AND CONNECTOR ASSEMBLY

N.T.S.

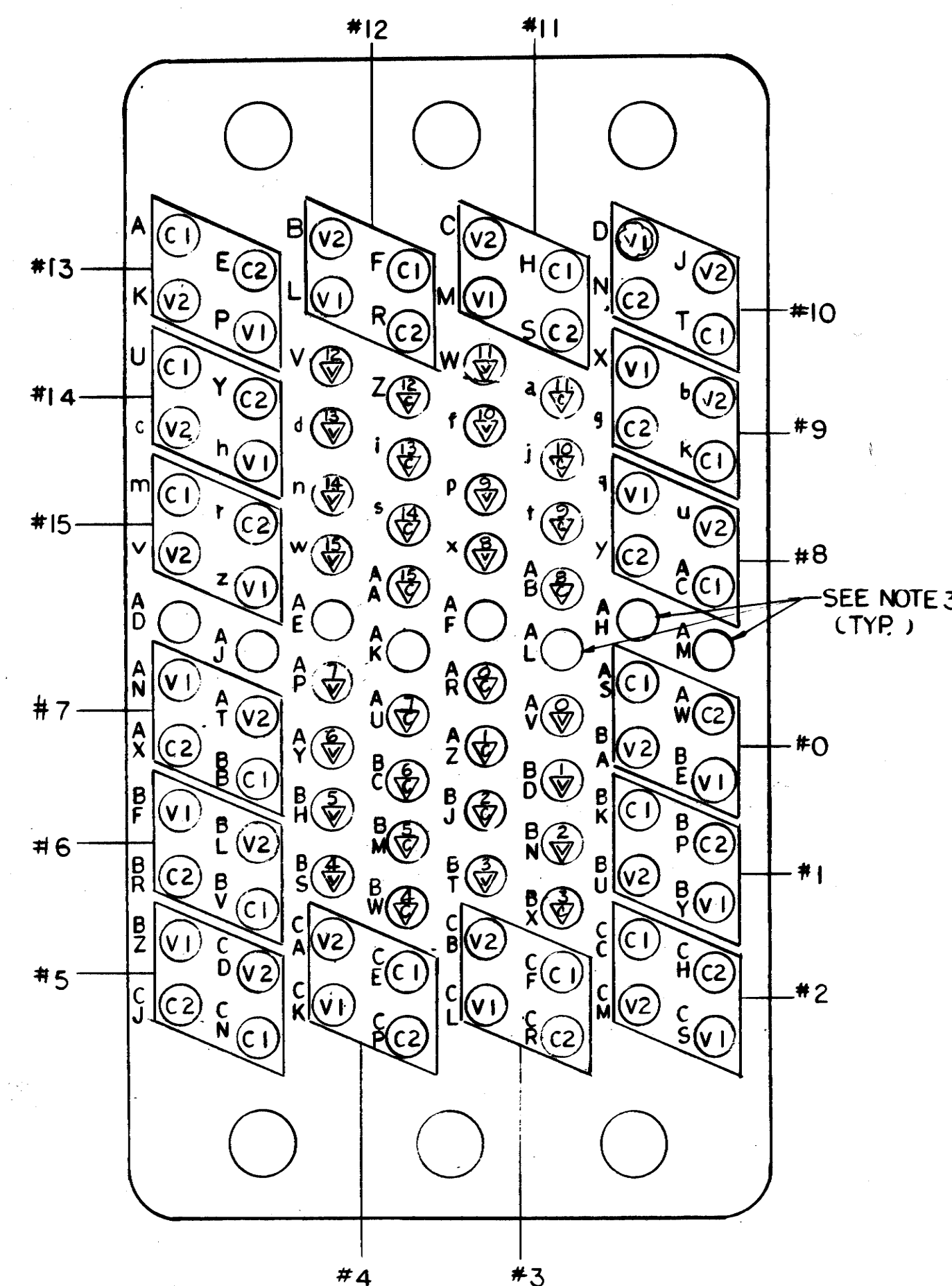


TYPICAL INTERFACE CABLE INDIVIDUAL PAIR CONDUCTOR TERMINATION AT TERMINAL CABINET

N. T. S.



PIA CABLE CONNECTOR REAR VIEW



SIA CABLE CONNECTOR REAR VIEW

NOTES

- THE GOVERNMENT WILL PROVIDE THE RECTANGULAR INTERFACE CABLE CONNECTORS AND REMOVABLE CONTACT PINS MANUFACTURED BY POSITRONIC INDUSTRIES, INC. THE CONNECTOR AND TOOLS FOR INSTALLATION WILL BE AS FOLLOWS:

ITEMS	PART NO.
CONNECTOR ASSY.	GMCT104MOGT0V0-50
CONTACT PIN	MC120N-50
HAND CRIMP TOOL/ WITH POSITIONER	9501/WITH 9502-1
CONTACT INSERT	9099
CONTACT EXTRACTION	9081

- PIA AND SIA CABLE CONNECTORS ARE TYPICAL FOR ALL INTERFACE CABLES. FOR INTERFACE CABLE WIRING DIAGRAMS, COLOR CODING, DATA CHANNELS AND SENSOR CABLE IDENTIFICATIONS SEE DWG EA-4 THRU EA-7.

- INTERFACE CABLE SPARE AND UNUSED PAIRS SHALL BE WIRED TO DATA CABINET CONNECTOR CONTACT PINS AND SHALL BE TAPED, LABELED AND SECURED IN THE WIRING DUCT OF THE TERMINAL CABINET. LENGTH OF UNUSED PAIRS SHALL BE SUFFICIENT TO REACH ANY TERMINAL BLOCK FOR FUTURE USE.

- A CLEAR, THIN WALL SLEEVE SHALL BE INSTALLED OVER EACH BARE SHIELD/ DRAIN WIRE

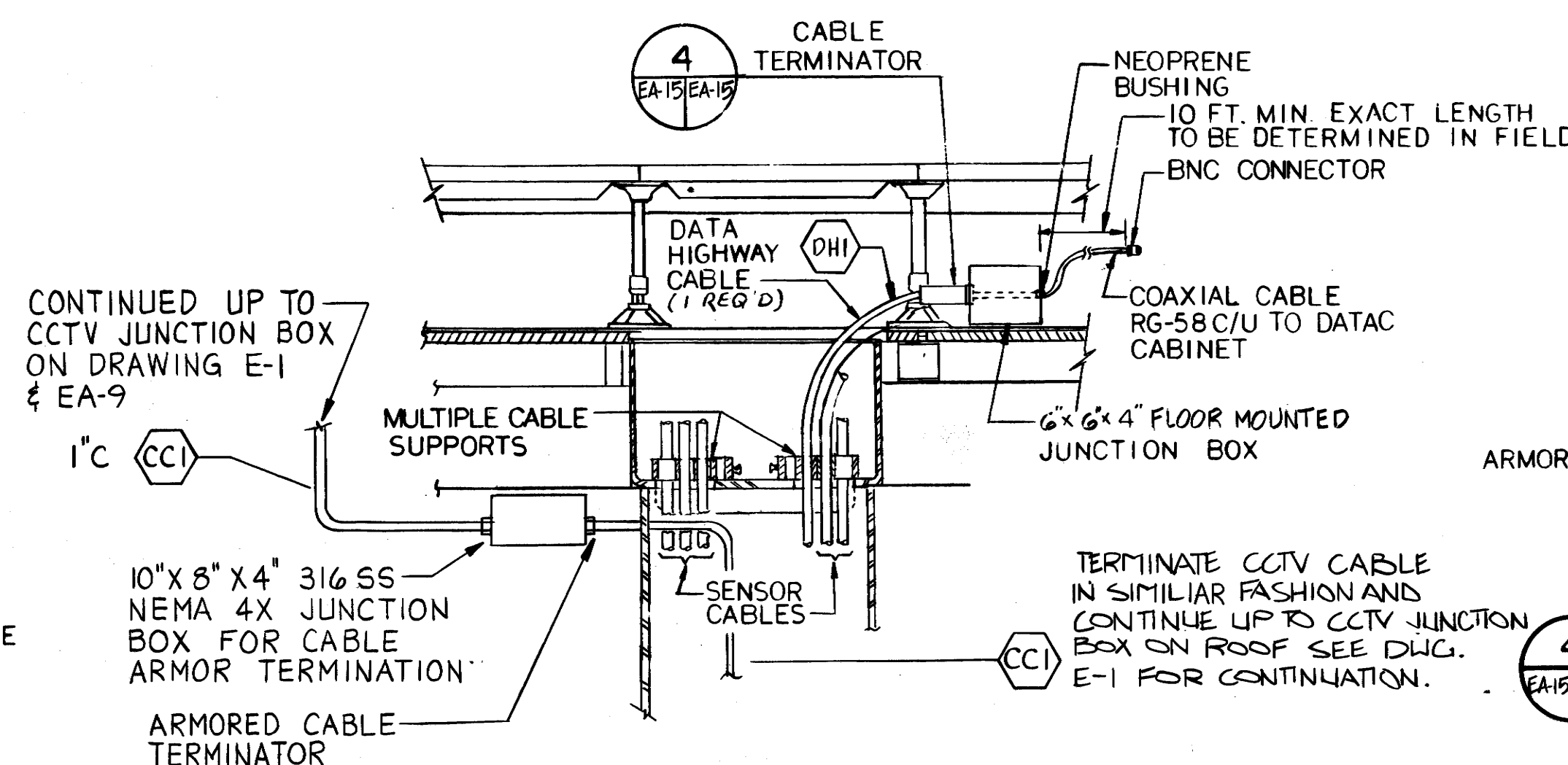
- THE GOVERNMENT SHALL PROVIDE THE TYPES OF INTERFACE CABLE AND CONNECTOR AS INDICATED. NOTWITHSTANDING ANY OTHER PROVISION OF THIS CONTRACT, NO OTHER PRODUCT WILL BE ACCEPTABLE.

- DATA INTERFACE CABLE WILL BE A 37PR#22 AWG CABLE (#22 CONDUCTOR CONSISTS OF 7 STRANDS OF #30 AWG) IT WILL HAVE TINNED COPPER, POLYPROPYLENE INSULATED, TWISTED PAIRS, EACH PAIR INDIVIDUALLY SHIELDED WITH FOIL ALUMINUM-POLYESTER SHIELD AND #22 AWG STRANDED TINNED COPPER DRAIN WIRE AND OVERALL CHROME PVC JACKET.

- FOR CABLE SCHEDULE SEE DRAWING EA-7.

LEGEND

PIA - POWER INTERFACE ASSEMBLY
SIA - SIGNAL INTERFACE ASSEMBLY



CABLE TERMINATION DETAIL

N. T. S.

DATAc DATA HIGHWAY CABLE TERMINATION

"WARNING: DRAWING MAY BECOME DISTORTED DURING REDUCTION OR OTHER REPRODUCTION PROCESS. USER IS CAUTIONED AGAINST SCALING."

SATISFACTORY TO
DATE
SATISFACTORY TO
DATE
COMNAVSEASYS/SCOM

FLUOR ENGINEERS, INC.
HOUSTON DIVISION
DES. H.S. DR. W.W. CHK. M.K.
SUBMITTED BY DATE
TITLE: PROGRAM MGR.
OCEAN ENGR. & CONST. PROJ. OFF. FPO-1
EIC. 21-86-0103
APPROVED HEAD FPO-1
DATE
APPROVED
DATE
EFO FOR COMMANDER, NAVFAC

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
CHESAPEAKE DIVISION
WASHINGTON, D.C.
MAGNETIC SILENCING FACILITY
NEW LONDON, CT.
INTERFACE CABLE ASSEMBLY
AND DATA HIGHWAY CABLE
TERMINATIONS
SIZE CODE IDENT. NO. NAVFAC DRAWING NO.
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CONSTR. CONTR. NO. N62477-86-C-0103
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