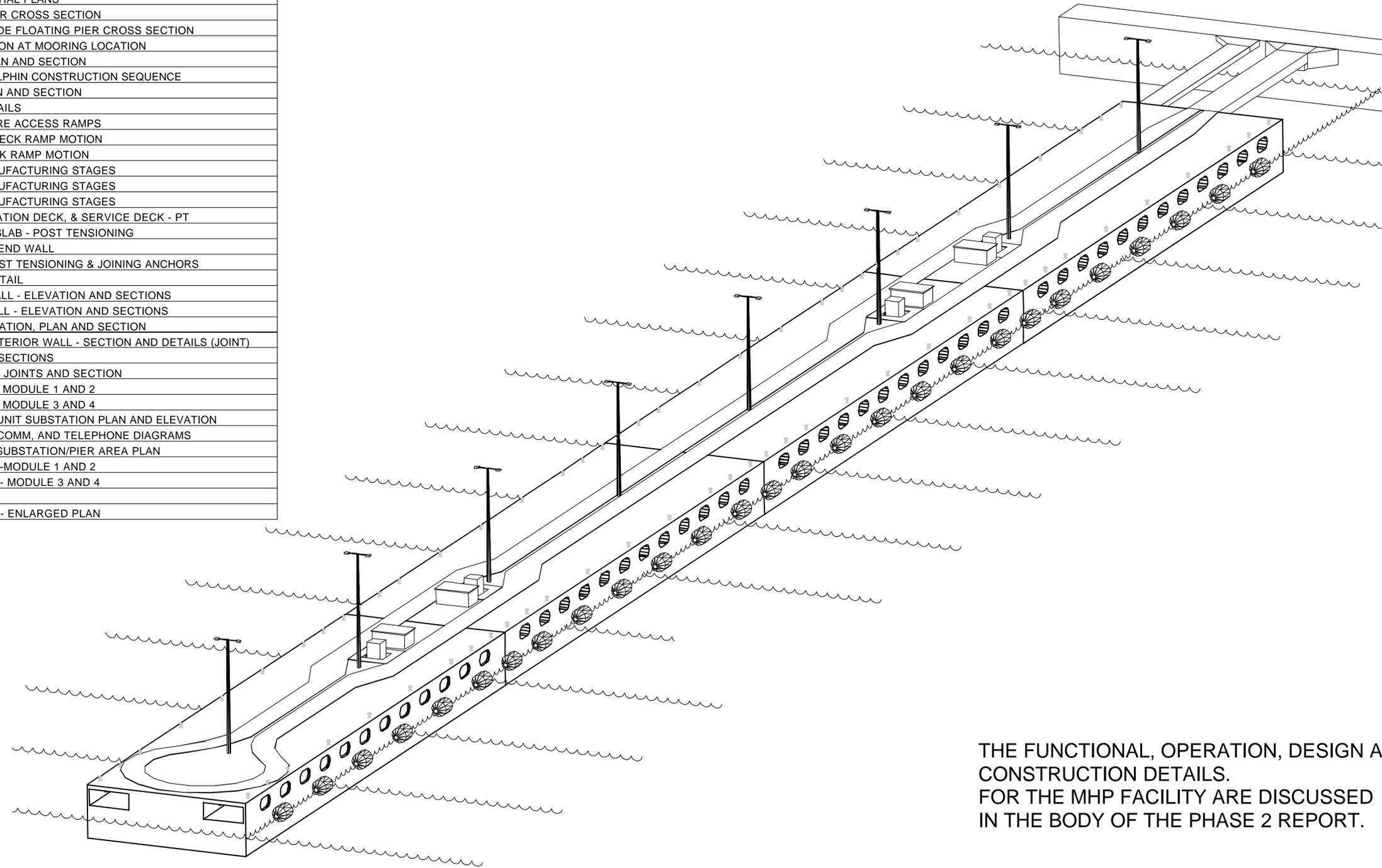


DRAWING LIST

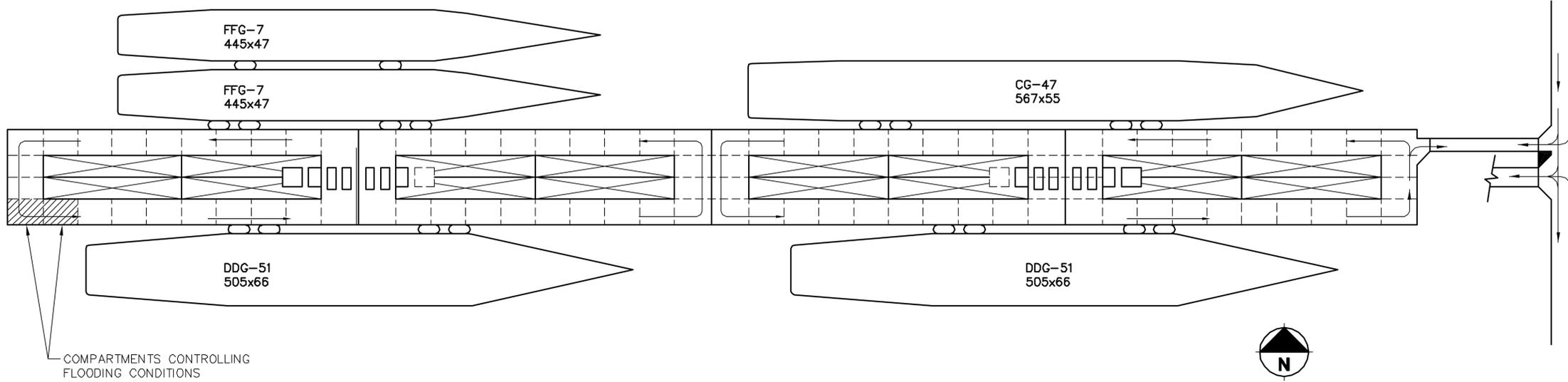
DRAWINGS	
A-01	COVER SHEET
L-01	CONTROLLING DAMAGED CONDITIONS
L-02	BERTHING SHOWING PRA AREAS
L-03	BERTHING SHOWING SRA AREAS
L-04	BERTHING SHOWING ROH AREAS
S-01	PRIMARY VESSELS BERTHING PLAN
S-02	ALTERNATIVE VESSELS BERTHING PLAN
S-03	PLAN OPERATION AND SERVICE DECKS
S-04	MODULE PLAN
S-05	MODULE PARTIAL PLANS
S-06	FLOATING PIER CROSS SECTION
S-07	OPTIONAL WIDE FLOATING PIER CROSS SECTION
S-08	CROSS SECTION AT MOORING LOCATION
S-09	MOORING PLAN AND SECTION
S-10	MOORING DOLPHIN CONSTRUCTION SEQUENCE
S-11	PILECAP PLAN AND SECTION
S-12	PILECAP DETAILS
S-13	PIER TO SHORE ACCESS RAMPS
S-14	OPERATION DECK RAMP MOTION
S-15	SERVICE DECK RAMP MOTION
S-16	MODULE MANUFACTURING STAGES
S-17	MODULE MANUFACTURING STAGES
S-18	MODULE MANUFACTURING STAGES
S-19	PLAN - OPERATION DECK, & SERVICE DECK - PT
S-20	PLAN - KEEL SLAB - POST TENSIONING
S-21	ELEVATION - END WALL
S-22	SECTION - POST TENSIONING & JOINING ANCHORS
S-23	SECTION - DETAIL
S-24	EXTERIOR WALL - ELEVATION AND SECTIONS
S-25	INTERIOR WALL - ELEVATION AND SECTIONS
S-26	PANEL - ELEVATION, PLAN AND SECTION
S-27	INTERIOR, EXTERIOR WALL - SECTION AND DETAILS (JOINT)
S-28	END PANAL - SECTIONS
S-29	WALL, PANAL, JOINTS AND SECTION
E-1	ELECTRICAL - MODULE 1 AND 2
E-2	ELECTRICAL - MODULE 3 AND 4
E-3	SECONDARY UNIT SUBSTATION PLAN AND ELEVATION
E-4	FIRE ALARM, COMM, AND TELEPHONE DIAGRAMS
E-5	ELECTRICAL SUBSTATION/PIER AREA PLAN
M-1	MECHANICAL -MODULE 1 AND 2
M-2	MECHANICAL - MODULE 3 AND 4
M-3	SECTIONS
M-4	MECHANICAL - ENLARGED PLAN

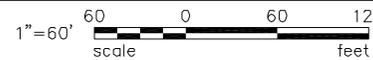
FLOATING MODULAR HYBRID PIER

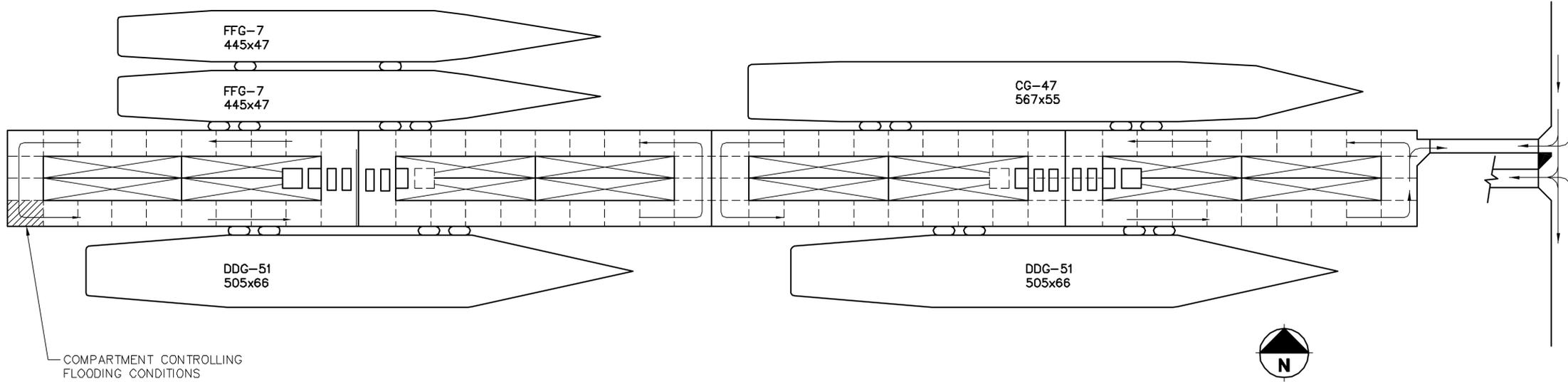


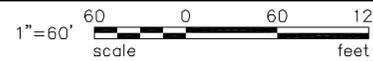
THE FUNCTIONAL, OPERATION, DESIGN AND CONSTRUCTION DETAILS. FOR THE MHP FACILITY ARE DISCUSSED IN THE BODY OF THE PHASE 2 REPORT.

A/E M/Z N/LP		DISSEN FRANK REVIEW		CHIEF ARCH/ENR PROJECT MANAGER		FIRE PROTECTION QUALITY CONTROL		BRANCH MANAGER DISSEN		APPROVED DATE	
BERGER/ADAM 1000 15th St. N.E. FEDERAL WAY, WASHINGTON 98003-8385 (206) 337-2300 FAX (206) 431-7250		APPROVED DATE		ACTIVITY - SATISFACTORY TD APPROVED DATE		SEAL FOR EFD FOR COMMANDER NAVFAC		REVISIONS SYM DESCRIPTION DATE		D C B A	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SERVICES CENTER NFESC MODULAR HYBRID PIER FLOATING PIER COVER SHEET											
CODE ID. NO. 80091 SIZE 0											
SCALE:											
EFD NO.											
STA. PROJ. NO.											
SPEC. NO.											
CONSTR. CONTR. NO.											
NAVFAC DRAWING NO.											
SHEET OF											
A-1											

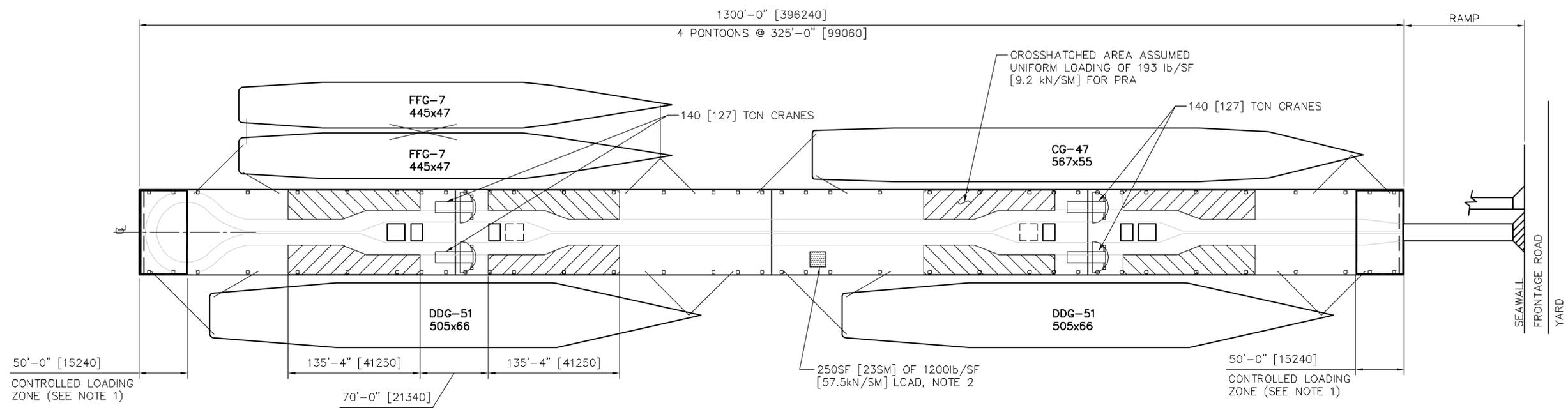



PLAN - 2 COMPARTMENT DAMAGED & FLOODED
 SCALE: 1"=120'-0"
 1"=60' 

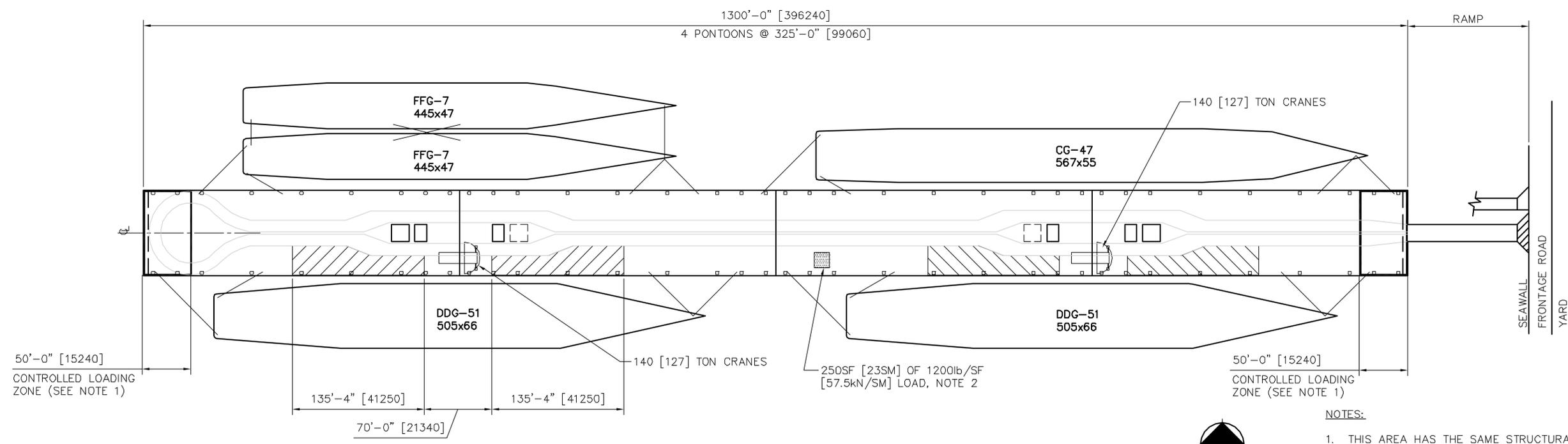



PLAN - 1 COMPARTMENT DAMAGED & FLOODED
 SCALE: 1"=120'-0"
 1"=60' 

DEPARTMENT OF THE NAVY NAVFAC NAVAL FACILITIES ENGINEERING SERVICES CENTER		CODE ID. NO. 80091 SIZE 0 SCALE: AS NOTED EFD NO. STA. PROJ. NO. SPEC. NO. CONSTR. CONTR. NO. NAVFAC DRAWING NO. SHEET OF	
MODULAR HYBRID PIER FLOATING PIER		CONTROLLING DAMAGED CONDITIONS	
APPROVED: _____ DATE _____ PROJECT MANAGER: _____ FIRE PROTECTION: _____ QUALITY CONTROL: _____ BRANCH MANAGER: _____ DESIGN DIRECTOR: _____		APPROVED: _____ DATE _____ PROJECT MANAGER: _____ FIRE PROTECTION: _____ QUALITY CONTROL: _____ BRANCH MANAGER: _____ DESIGN DIRECTOR: _____	
BERGER/ABAM 1000 SOUTH LANTANA AVENUE SUITE 100 WEST PALM BEACH, FL 33411 FEDERAL WAY, WASHINGTON 20037-8385 (202) 331-2300 FAX (202) 431-2250		APPROVED: _____ DATE _____ PROJECT MANAGER: _____ FIRE PROTECTION: _____ QUALITY CONTROL: _____ BRANCH MANAGER: _____ DESIGN DIRECTOR: _____	
SEAL		SEAL	
REVISIONS		REVISIONS	



1 PLAN - PRA @ 4 BERTHS
 SCALE: 1"=120'-0"
 1"=60' scale

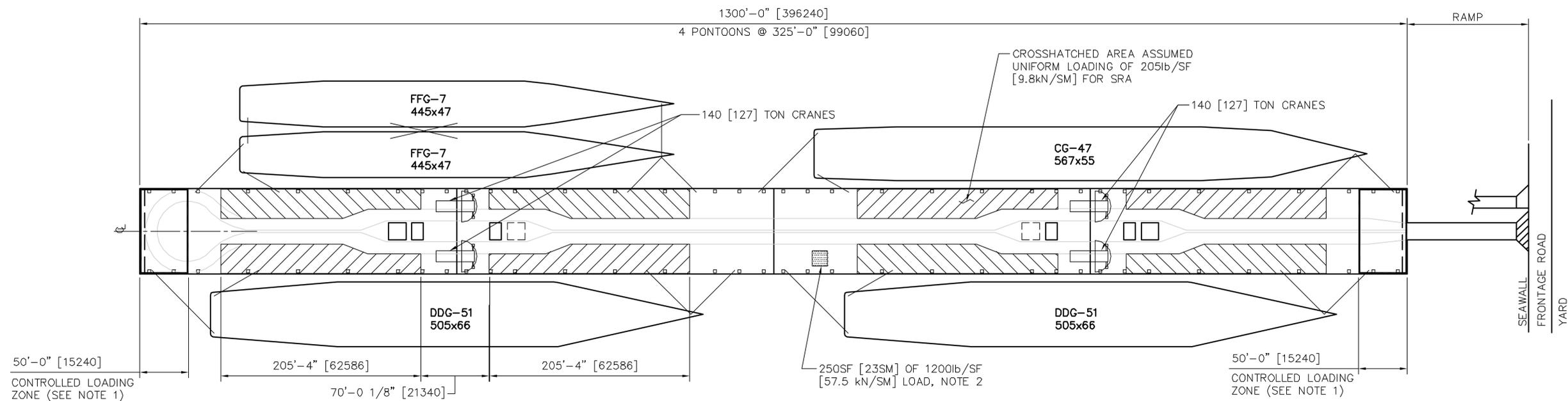


2 PLAN - PRA @ 2 BERTHS ON ONE SIDE
 SCALE: 1"=120'-0"
 1"=60' scale

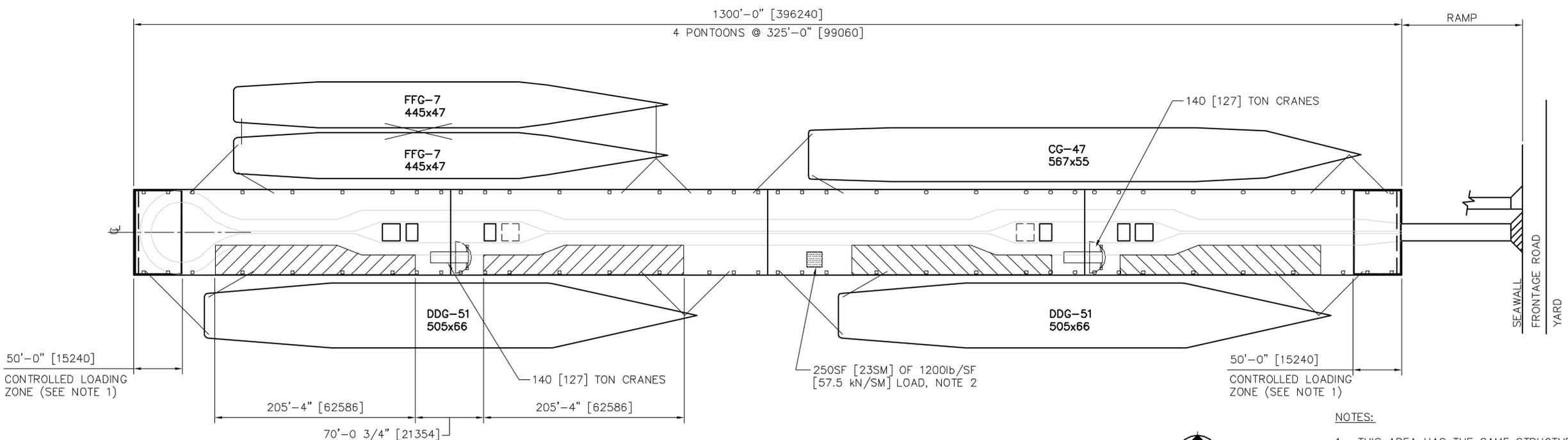


- NOTES:
1. THIS AREA HAS THE SAME STRUCTURAL STRENGTH AS THE REST OF THE DECK. IT IS DESIGNATED A CONTROLLED LOAD AREA FOR HYDROSTATIC REASONS.
 2. THIS AREA LOAD (300,000lb [1334 kN] TOTAL) CAN BE LOCATED ANY PLACE ON PIER OPERATION DECK UNLESS OTHERWISE NOTED. (SEE NOTE 1).

DEPARTMENT OF THE NAVY NAVFAC NAVAL FACILITIES ENGINEERING SERVICES CENTER		PROJECT NO. STA. PROJ. NO. SPEC. NO. CONSTR. CONTR. NO. NAVFAC DRAWING NO. SHEET OF		MODULAR HYBRID PIER FLOATING PIER BERTHING SHOWING PRA AREAS		499037	
BERGER/ABAM 1000 15th Street, Suite 1000 Federal Way, Washington 98003-8395 (206) 831-2300 FAX (206) 831-2250		PROJECT MANAGER FIRE PROTECTION QUALITY CONTROL BRANCH MANAGER DESIGN DIRECTOR		DATE DATE DATE DATE		REVISIONS	
A/E M/HZ AMH		DESIGN DRAWN REVIEW CHECK PROJECT MANAGER FIRE PROTECTION QUALITY CONTROL BRANCH MANAGER DESIGN DIRECTOR		DATE DATE DATE DATE		APPROVED DATE	



1 PLAN - SRA @ 4 BERTHS
 SCALE: 1"=120'-0"
 1"=60' scale



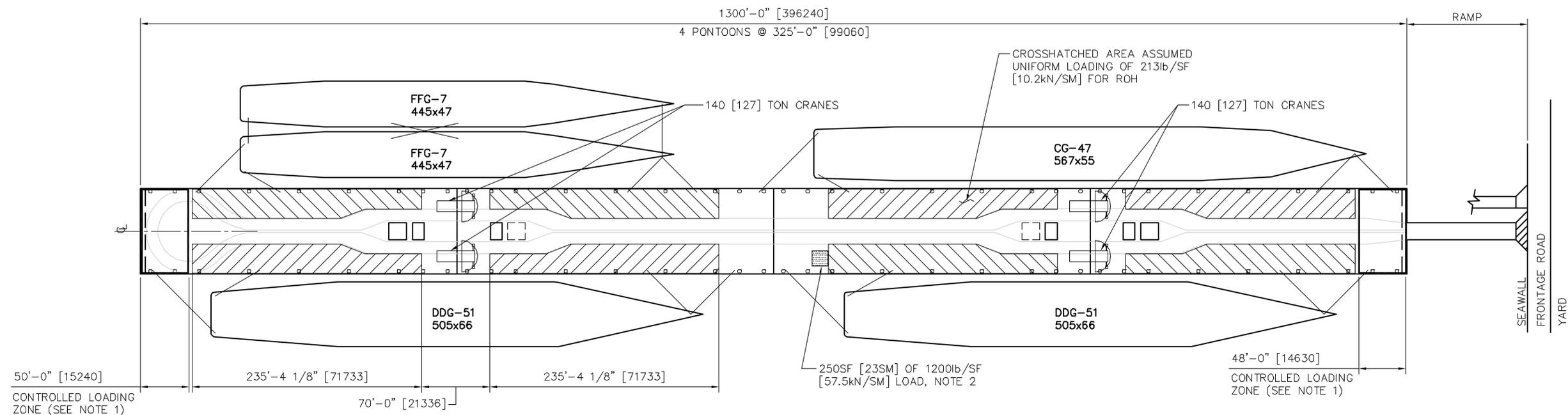
2 PLAN - SRA @ 2 BERTHS ON ONE SIDE
 SCALE: 1"=120'-0"
 1"=60' scale



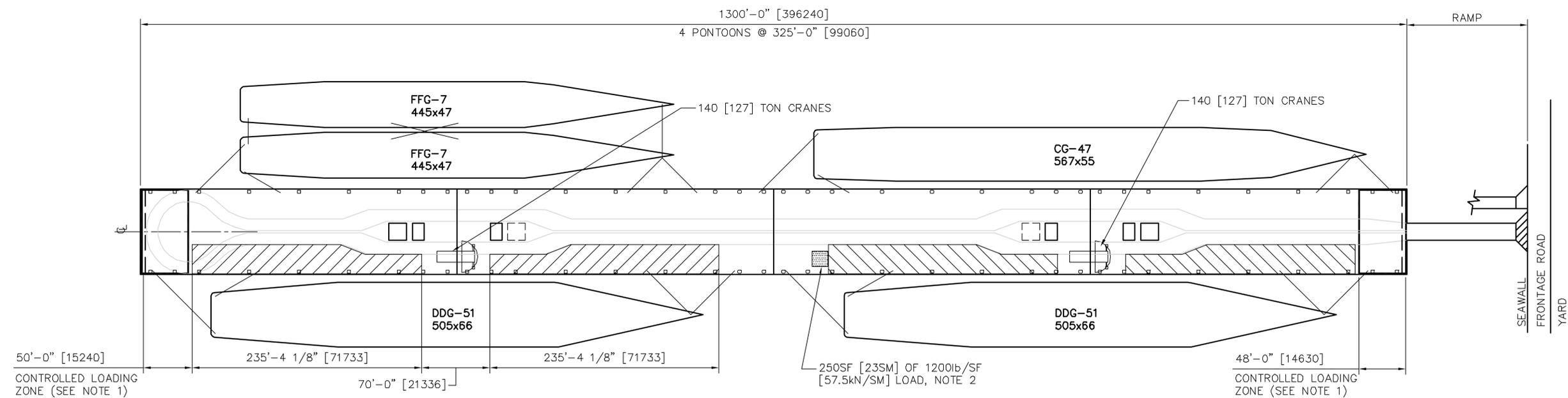
NOTES:

1. THIS AREA HAS THE SAME STRUCTURAL STRENGTH AS THE REST OF THE DECK. IT IS DESIGNATED A CONTROLLED LOAD AREA FOR HYDROSTATIC REASONS.
2. THIS AREA LOAD (300,000lb [1334kN] TOTAL) CAN BE LOCATED ANY PLACE ON PIER OPERATION DECK UNLESS OTHERWISE NOTED. (SEE NOTE 1).

A/E MHZ AMH		DESIGN AMH		DRAWN AMH		CHECK ARBY/ENR		PROJECT MANAGER ARBY/ENR		FIRE PROTECTION ARBY/ENR		QUALITY CONTROL ARBY/ENR		BRANCH MANAGER ARBY/ENR		DESIGN DIRECTOR ARBY/ENR	
APPROVED DATE		APPROVED DATE		APPROVED DATE		APPROVED DATE		APPROVED DATE		APPROVED DATE		APPROVED DATE		APPROVED DATE		APPROVED DATE	
BERGER/ABAM 1000 SOUTH KENNEDY BOULEVARD SUITE 1000 FORT LAUDERDALE, FL 33304 (954) 473-2300 FAX (954) 473-2350		ACTIVITY - SATISFACTORY ID APPROVED DATE		ACTIVITY - SATISFACTORY ID APPROVED DATE		ACTIVITY - SATISFACTORY ID APPROVED DATE		ACTIVITY - SATISFACTORY ID APPROVED DATE		ACTIVITY - SATISFACTORY ID APPROVED DATE		ACTIVITY - SATISFACTORY ID APPROVED DATE		ACTIVITY - SATISFACTORY ID APPROVED DATE		ACTIVITY - SATISFACTORY ID APPROVED DATE	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SERVICES CENTER NFESC		MODULAR HYBRID PIER FLOATING PIER BERTHING SHOWING SRA AREAS		499037		SEAL											
CODE ID. NO. 80091 SCALE: AS NOTED		EFD NO.		STA. PROJ. NO.		SPEC. NO.		CONSTR. CONTR. NO.		NAVFAC DRAWING NO.		SHEET OF		SHEET OF		SHEET OF	
L-3		L-3		L-3		L-3		L-3		L-3		L-3		L-3		L-3	



1 PLAN - ROH @ 4 BERTHS
 SCALE: 1"=120'-0"
 1"=60' scale



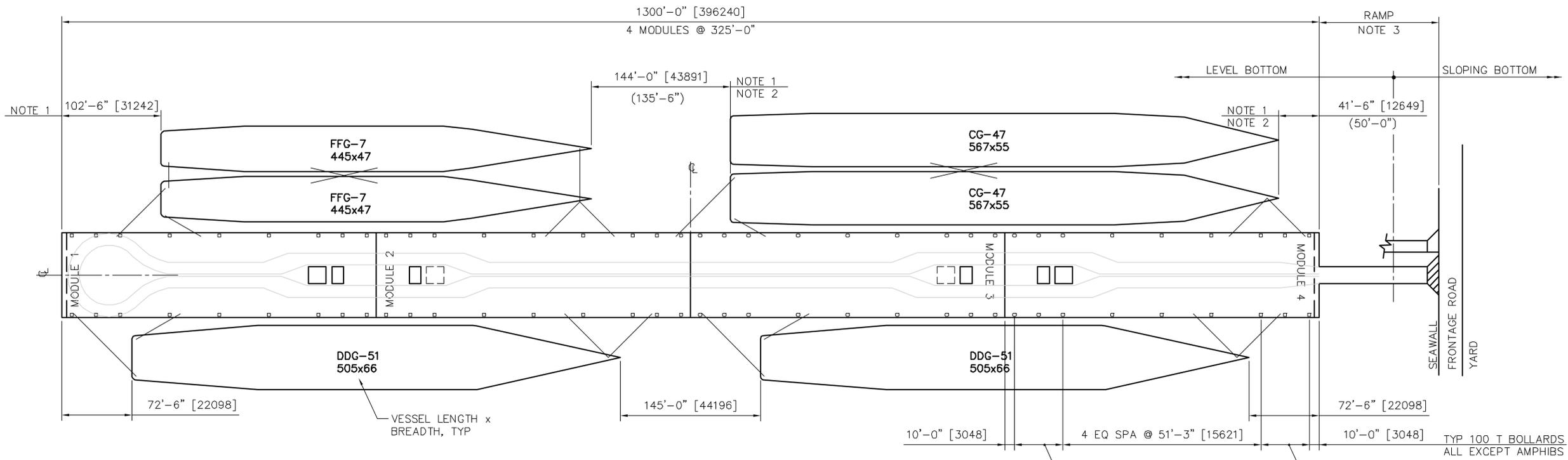
2 PLAN - ROH @ 2 BERTHS ON ONE SIDE
 SCALE: 1"=120'-0"
 1"=60' scale



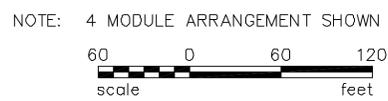
NOTES:

- THIS AREA HAS THE SAME STRUCTURAL STRENGTH AS THE REST OF THE DECK. IT IS DESIGNATED A CONTROLLED LOAD AREA FOR HYDROSTATIC REASONS.
- THIS AREA LOAD (300,000lb [1334kN] TOTAL) CAN BE LOCATED ANY PLACE ON PIER OPERATION DECK UNLESS OTHERWISE NOTED. (SEE NOTE 1).

AVE MHZ AMH		DISSEN BRANK REVIEW		CHIEF ARMY ENR PROJECT MANAGER		FIRE PROTECTION QUALITY CONTROL		BRANCH MANAGER DESIGN DIRECTOR		REVISIONS DATE APPROVED	
BERGER/ABAM 1000 SOUTH K STREET, SUITE 200 FEDERAL WAY, WASHINGTON, DC 20004-2900 TEL: (202) 331-2300 FAX: (202) 331-2250		DATE		DATE		DATE		DATE		DATE	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SERVICES CENTER NFESC		MODULAR HYBRID PIER FLOATING PIER		BERTHING SHOWING ROH AREAS		SEAL		SEAL		SEAL	
CODE ID. NO. 80091		SCALE: AS NOTED		EFD NO.		STA. PROJ. NO.		SPEC. NO.		CONSTR. CONTR. NO.	
SHEET OF		L-4		SHEET OF		SHEET OF		SHEET OF		SHEET OF	



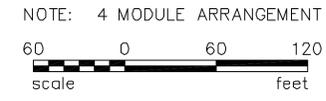
BERTHING PLAN - PRIMARY VESSELS
 SCALE: 1" = 120'-0"



NOTE: 4 MODULE ARRANGEMENT SHOWN

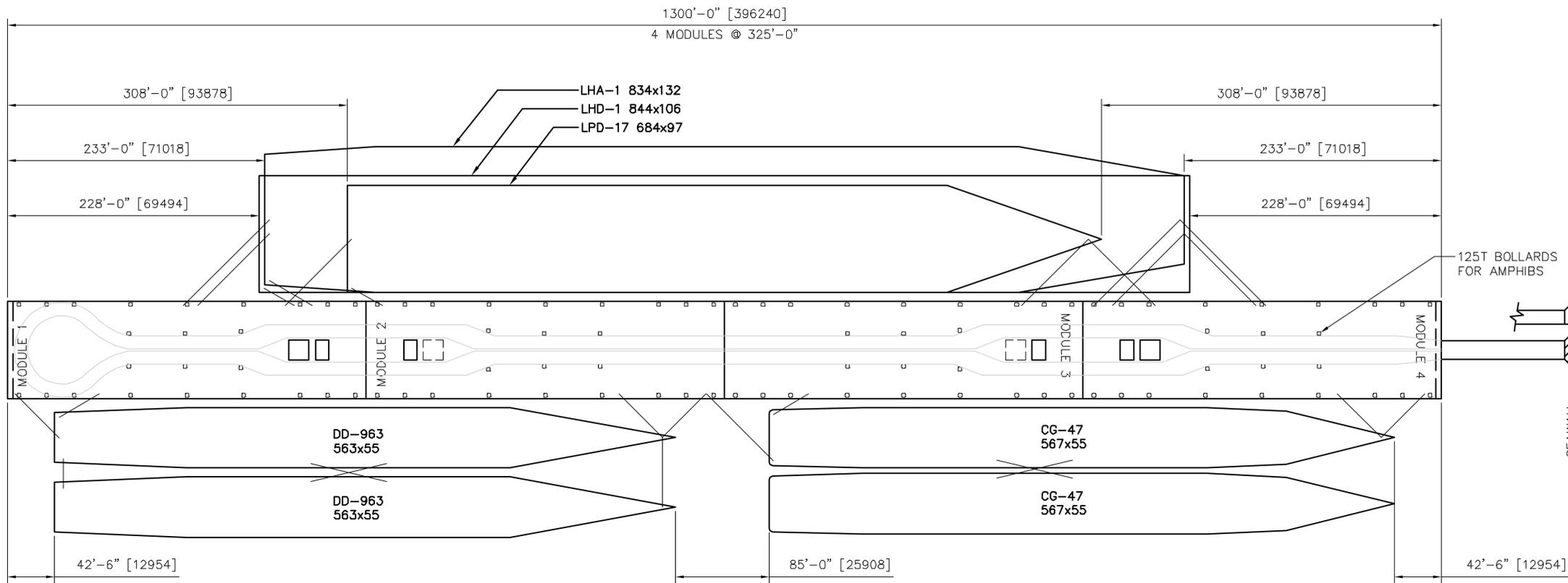
- NOTES:
- 50' BOW & STERN SPACE DESIRED
100' SPACE BETWEEN VESSELS DESIRED PER DM.
 - NUMBERS IN PARENTHESES () INDICATE SPACE BETWEEN VESSELS IF BOW SPACE IS ADJUSTED TO DESIRED 50' [15.2M].
 - RAMP LENGTH VARIES WITH YARD ELEV & TIDAL RANGE, L=98' [29.9] \bar{C} BER TO \bar{C} BER (SAN DIEGO).

BERTHING PLAN - PRIMARY VESSELS
 SCALE: 1" = 120'-0"



NOTE: 4 MODULE ARRANGEMENT SHOWN

A/E MHZ AMH		DISSEN BRANK CHIEF, ARMY ENR		PROJECT MANAGER FIRE PROTECTION QUALITY CONTROL BRANCH MANAGER DESIGN DIRECTOR		REVISIONS DATE APPROVED	
BERGER/ABAM 1000 SOUTH LEXINGTON AVENUE, SUITE 200 FREDERICK, MD, 21704-3800 (301) 441-2300 FAX: (301) 441-2350		APPROVED DATE		ACTIVITY - SATISFACTORY ID APPROVED DATE		SEAL FOR ETD FOR COMMANDER NAVFAC	
DEPARTMENT OF THE NAVY NAVFAC NAVAL FACILITIES ENGINEERING SERVICES CENTER		MODULAR HYBRID PIER FLOATING PIER		PRIMARY VESSELS BERTHING PLAN		09037	
CODE ID. NO. 80091 SCALE: AS NOTED		ETD NO.		STA. PROJ. NO.		SPEC. NO.	
CONSTR. CONTR. NO.		NAVFAC DRAWING NO.		SHEET OF		S-1	



1
S-2 | S-2

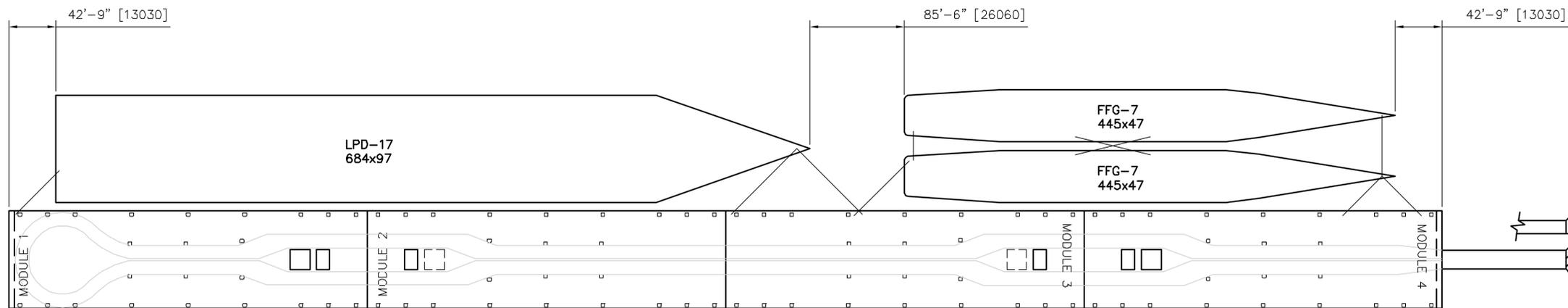
BERTHING PLAN - ALTERNATIVE VESSELS

SCALE: 1"=120'-0"

NOTE: 4 MODULE ARRANGEMENT SHOWN



CALL



2
S-2 | S-2

BERTHING PLAN - ALTERNATIVE VESSELS

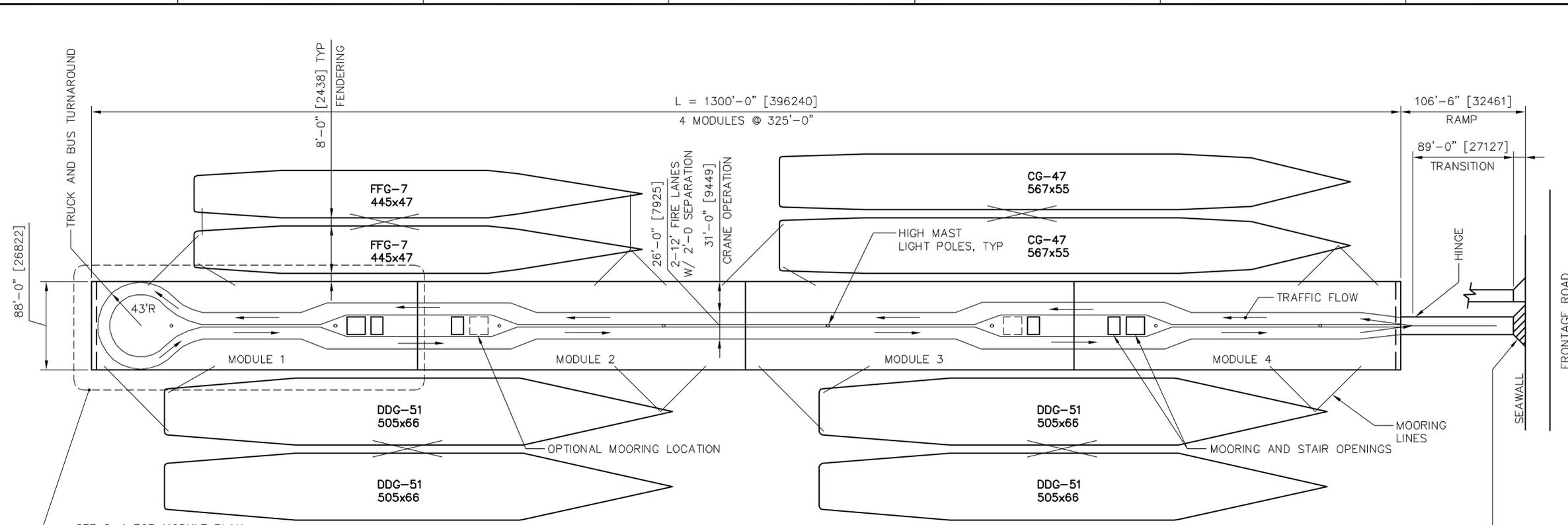
SCALE: 1"=120'-0"

NOTE: 4 MODULE ARRANGEMENT SHOWN



CALL

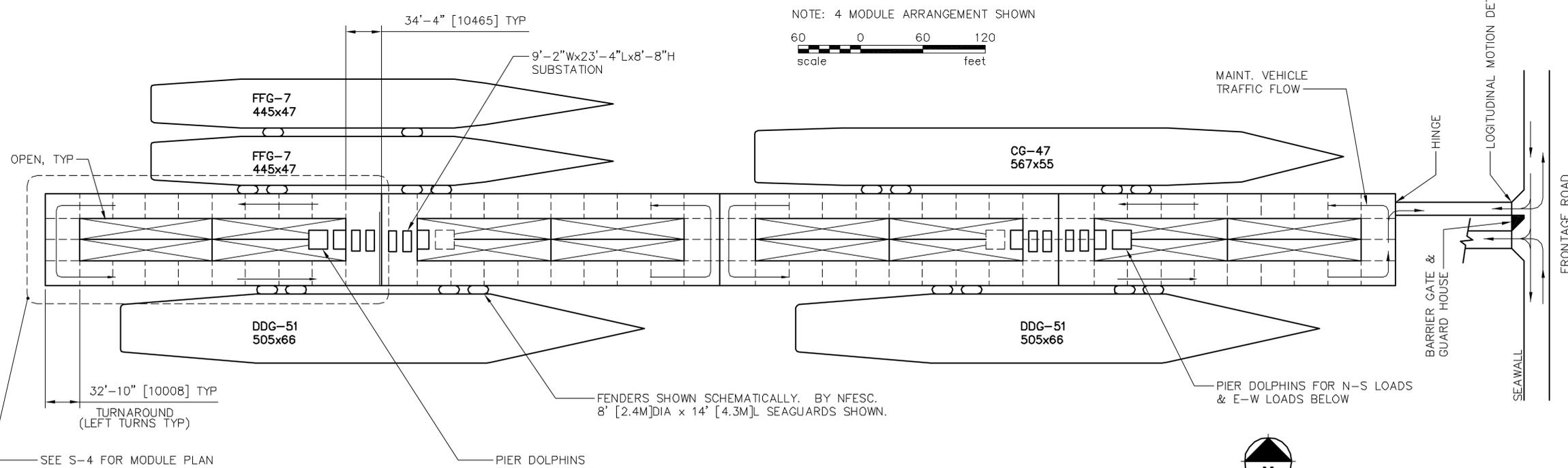
DEPARTMENT OF THE NAVY NAVFAC NAVAL FACILITIES ENGINEERING SERVICES CENTER		BERGER/ABAM 1000 15th Avenue South Federal Way, Washington 98003-8385 (206) 837-2300 FAX (206) 837-2350		PROJECT MANAGER FIRE PROTECTION QUALITY CONTROL BRANCH MANAGER DESIGN DIRECTOR		REVISIONS DATE DESCRIPTION SYM	
MODULAR HYBRID PIER FLOATING PIER ALTERNATIVE VESSELS BERTHING PLAN		ACTIVITY - SATISFACTORY ID APPROVED DATE		APPROVED DATE		APPROVED DATE	
SHEET OF S-2		NAVFAC DRAWING NO.		CONSTR. CONTR. NO.		SPEC. PROJ. NO.	
EFD NO.		STA. PROJ. NO.		SCALE: AS NOTED		CODE ID. NO. 80091 SIZE 0	



1 PLAN - OPERATIONS DECK
SCALE: 1"=120'-0"

NOTE: 4 MODULE ARRANGEMENT SHOWN

60 0 60 120
scale feet



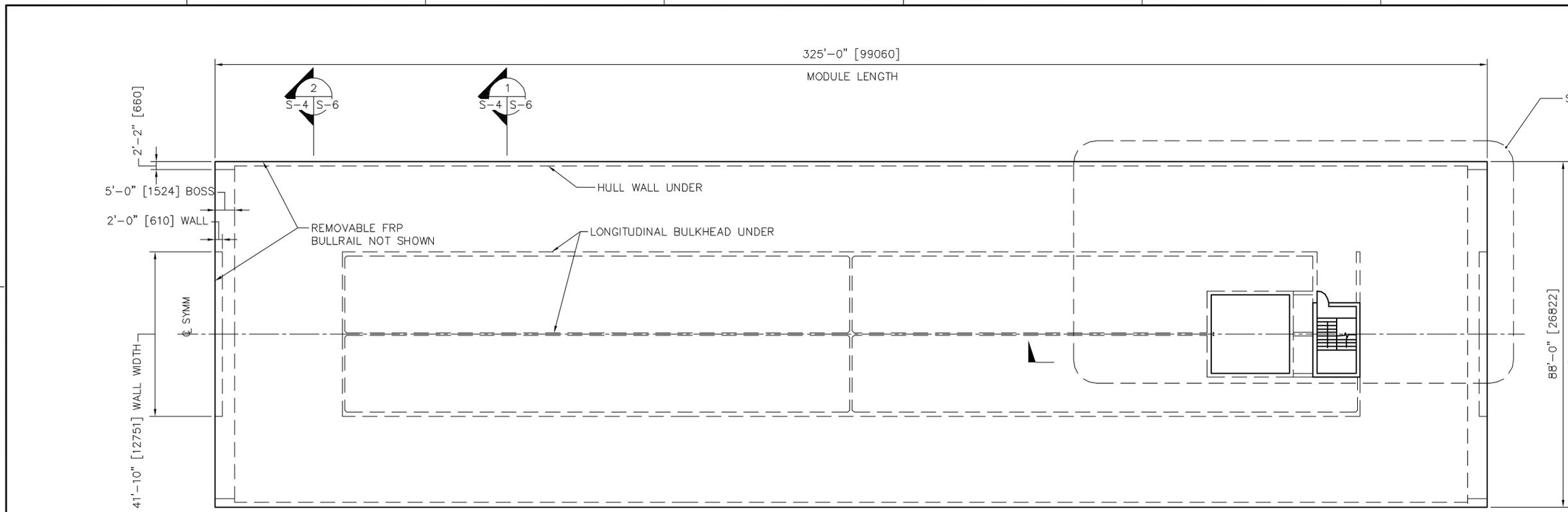
2 PLAN - SERVICE DECK
SCALE: 1"=120'-0"

NOTE: 4 MODULE ARRANGEMENT SHOWN

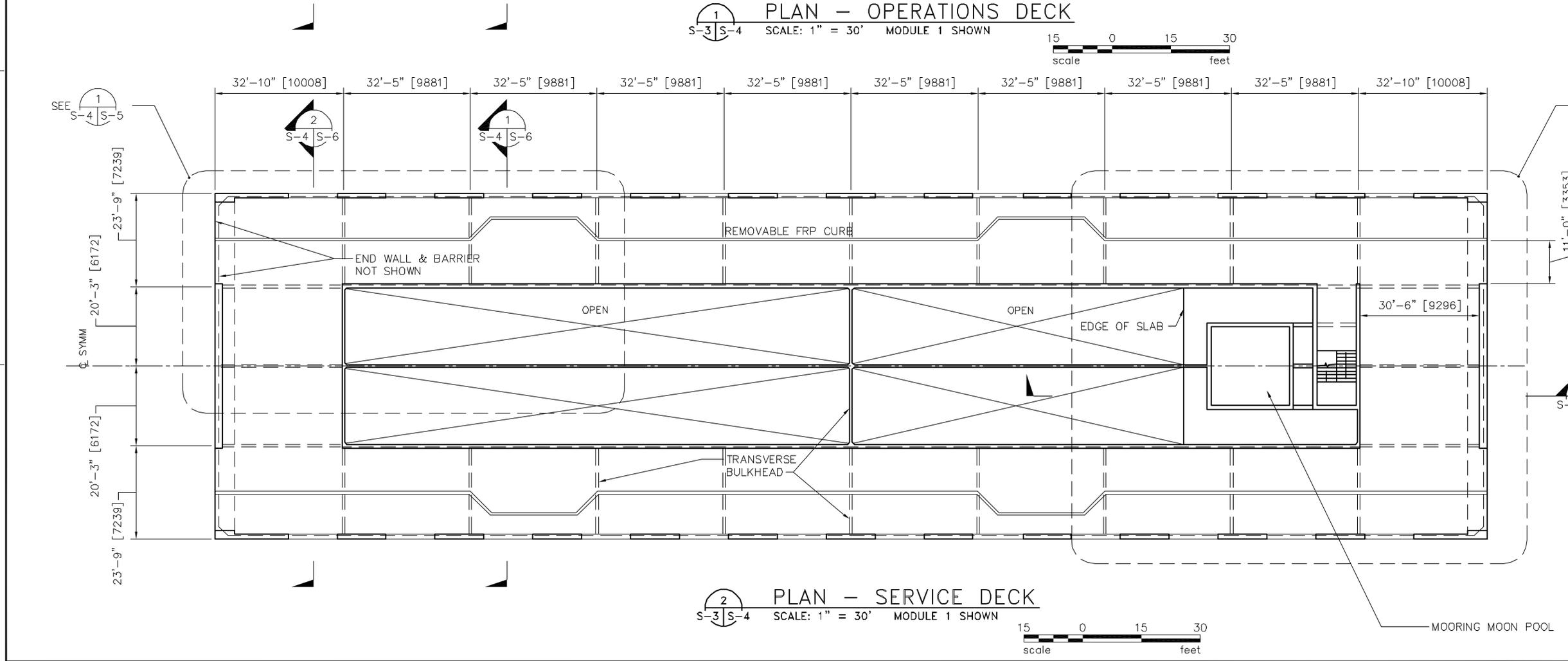
60 0 60 120
scale feet



DEPARTMENT OF THE NAVY NFESC NAVAL FACILITIES ENGINEERING SERVICES CENTER		MODULAR HYBRID PIER FLOATING PIER PLAN - OPERATIONS AND SERVICE DECKS		SHEET OF S-3
BERGER/ADAM 10000 13th Avenue South Federal Way, Washington 98003-8385 (206) 831-2300 FAX (206) 831-2350		PROJECT MANAGER PROJECT NUMBER PROJECT TITLE PROJECT DATE		APPROVED DATE
APPROVED DATE		APPROVED DATE		REVISIONS SYM DESCRIPTION DATE APPROVED



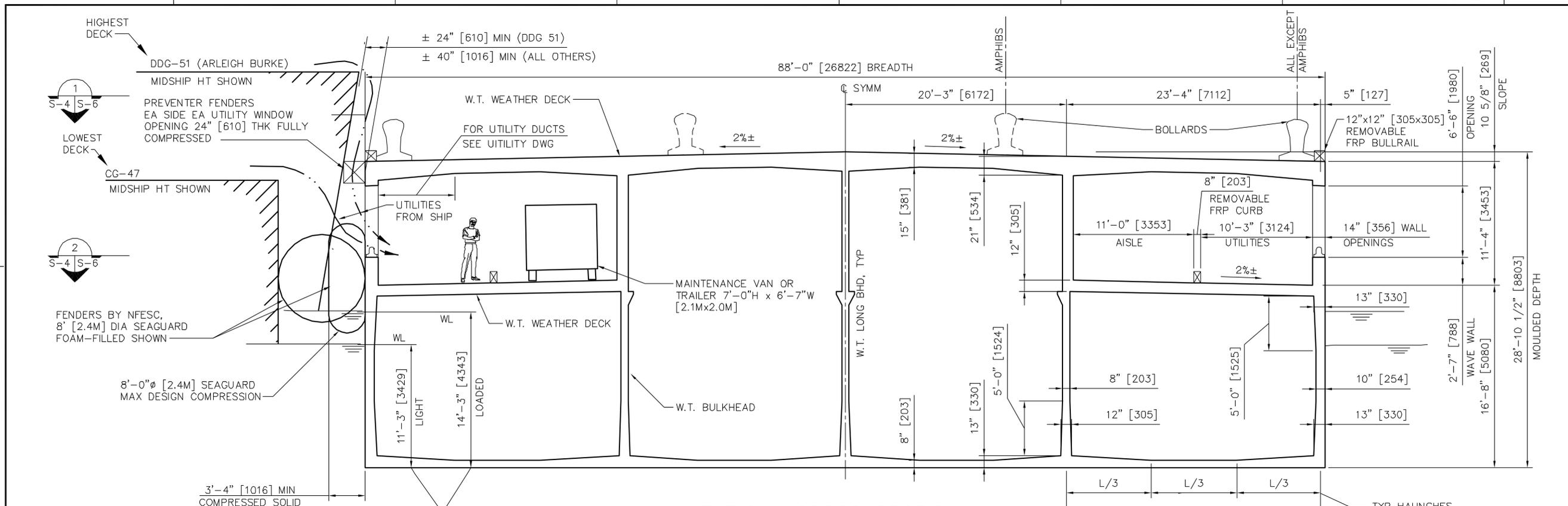
1 PLAN - OPERATIONS DECK
SCALE: 1" = 30' MODULE 1 SHOWN



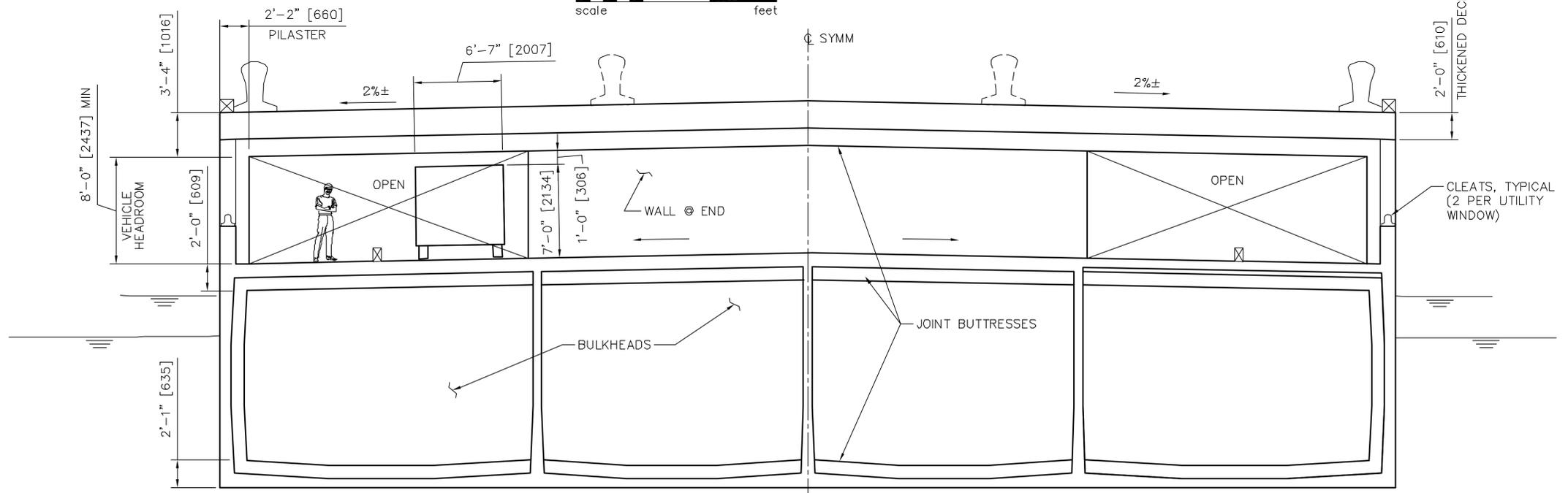
2 PLAN - SERVICE DECK
SCALE: 1" = 30' MODULE 1 SHOWN



A/E MHZ AMH		DISIN BRANK REVIEW		CHIEF ARCH/ENR PROJECT MANAGER		FIRE PROTECTION QUALITY CONTROL		BRANCH MANAGER DISIN		REVISIONS DATE	
BERGER/ABAM 1000 SOUTH KENNEDY BLVD FORT WORTH, TEXAS 76104 (817) 339-2200 FAX (817) 339-2250		APPROVED DATE		APPROVED DATE		APPROVED DATE		APPROVED DATE		APPROVED DATE	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SERVICES CENTER NFESC		MODULAR HYBRID PIER FLOATING PIER		MODULE PLANS		SEAL		ASB037		A B C D	
CODE ID. NO. 80091 SIZE 0		SCALE: AS NOTED		EFD NO.		STA. PROJ. NO.		SPEC. NO.		CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.		SHEET OF		S-4		1		8		7	



1
S-4 | S-6
TYPICAL CROSS SECTION
SCALE: 1"=10'-0"

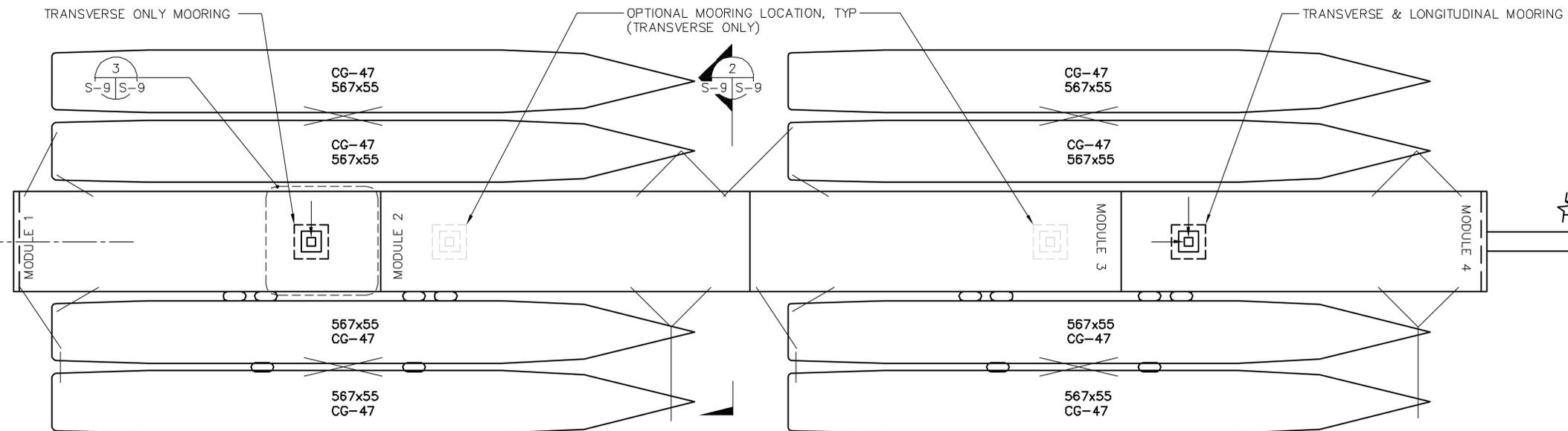


1
S-4 | S-6
CROSS SECTION AT MODULE ENDS
SCALE: 1"=10'-0"

A/E MHZ AMH PROJECT MANAGER FIRE PROTECTION QUALITY CONTROL BRANCH MANAGER DESIGN		REVISIONS NO. DATE DESCRIPTION APPROVED	
ETD DISION BRANCH REVIEW CHECK APPROV/ENR		SYM SYM	
BERGER/ABAM BERGER/ABAM 1000 15th Street, N.E. Federal Way, Washington 98003-3385 (206) 837-2300 FAX (206) 837-2250		APPROVED DATE ACTIVITY - SATISFACTORY ID APPROVED DATE FOR ETD FOR COMMANDER NAVFAC	
DEPARTMENT OF THE NAVY NFESC NAVAL FACILITIES ENGINEERING SERVICES CENTER		SEAL 488037	
MODULAR HYBRID PIER FLOATING PIER		FLOATING PIER CROSS SECTION	
CODE ID: NO. 80091 SIZE 0 SCALE: AS NOTED		ETD NO. STA. PROJ. NO. SPEC. NO. CONSTR. CONTR. NO. NAVFAC DRAWING NO. SHEET OF	
S-6			

CONTROLLING PRIMARY SHIP ARRANGEMENT FOR TRANSVERSE WIND AND CURRENT

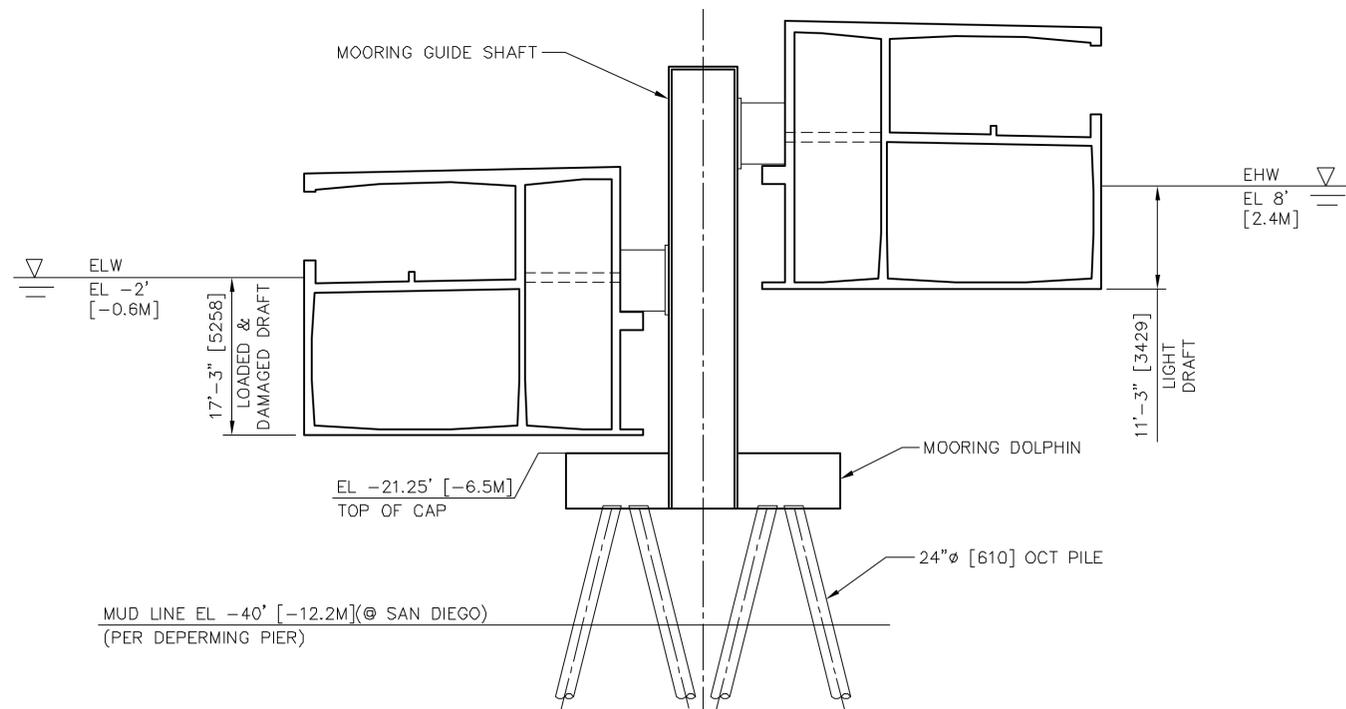
CONTROLLING PRIMARY SHIP ARRANGEMENT FOR LONGITUDINAL WIND AND CURRENT



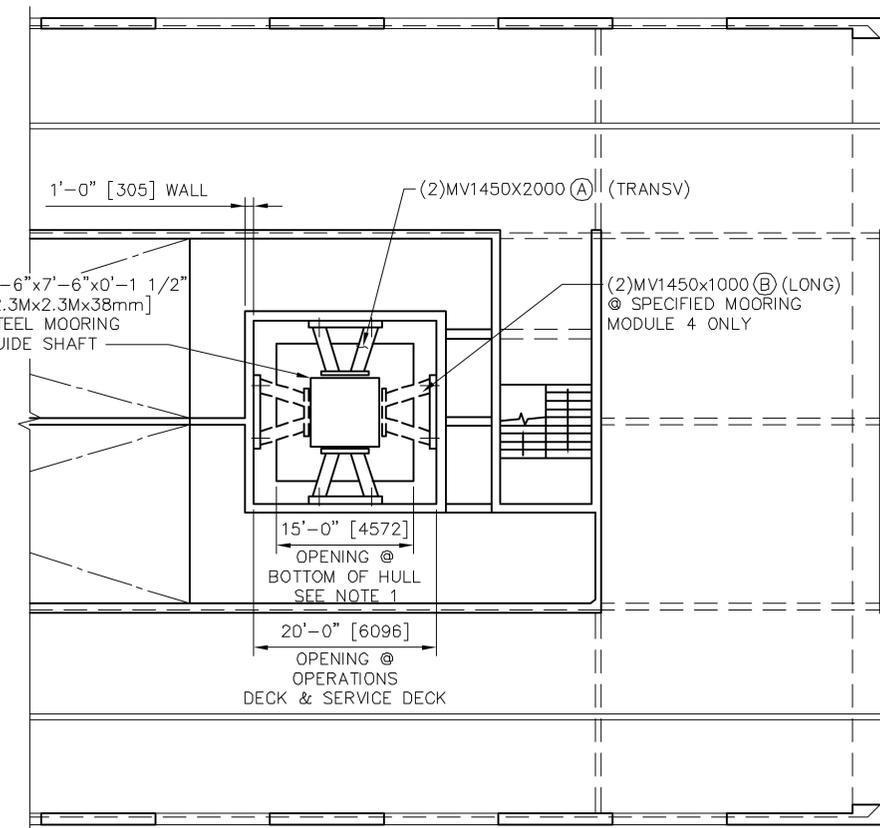
1 MORING PLAN @ SAN DIEGO
 S-9 | S-9 SCALE: 1" = 120' (2 X 1" = 60')
 NOTE: 4 MODULE ARRANGEMENT SHOWN
 60 0 60 120
 scale feet



NOTE:
 1. SIZE OF OPENING AT THE BOTTOM OF HULL WILL ALLOW FENDER TO BE FULLY COMPRESSED @ 2500 YEAR EARTHQUAKE.

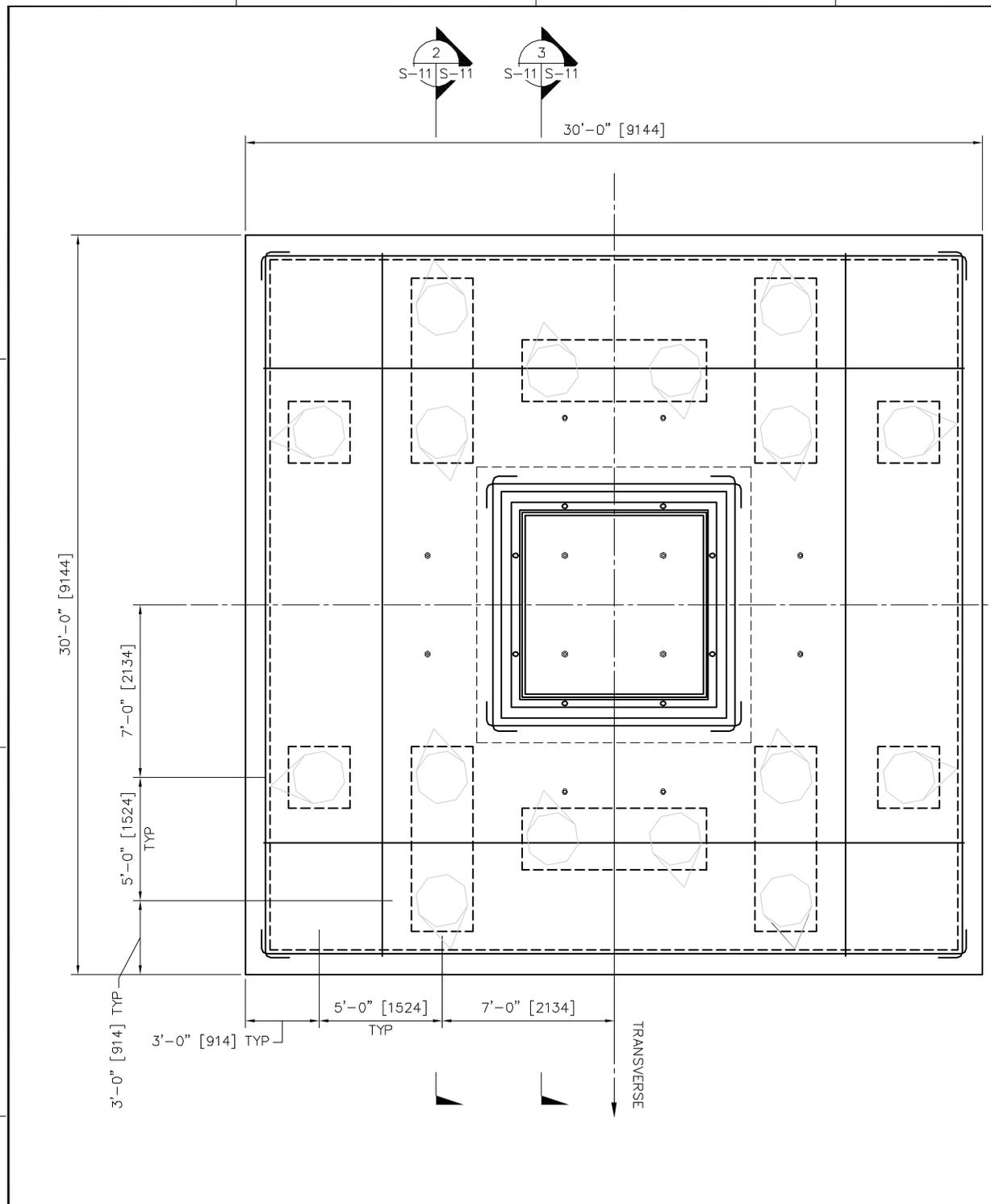


2 SECTION
 S-9 | S-9 SCALE: 1" = 20'
 10 0 10 20
 scale feet

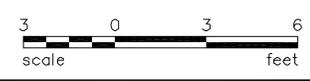
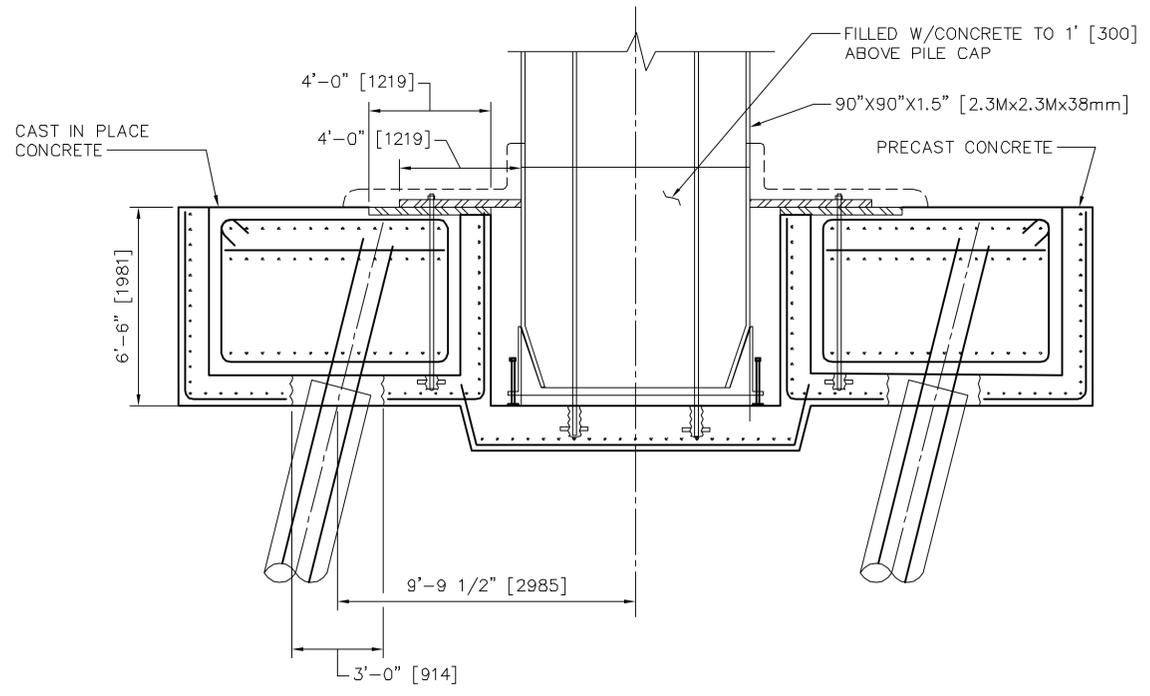
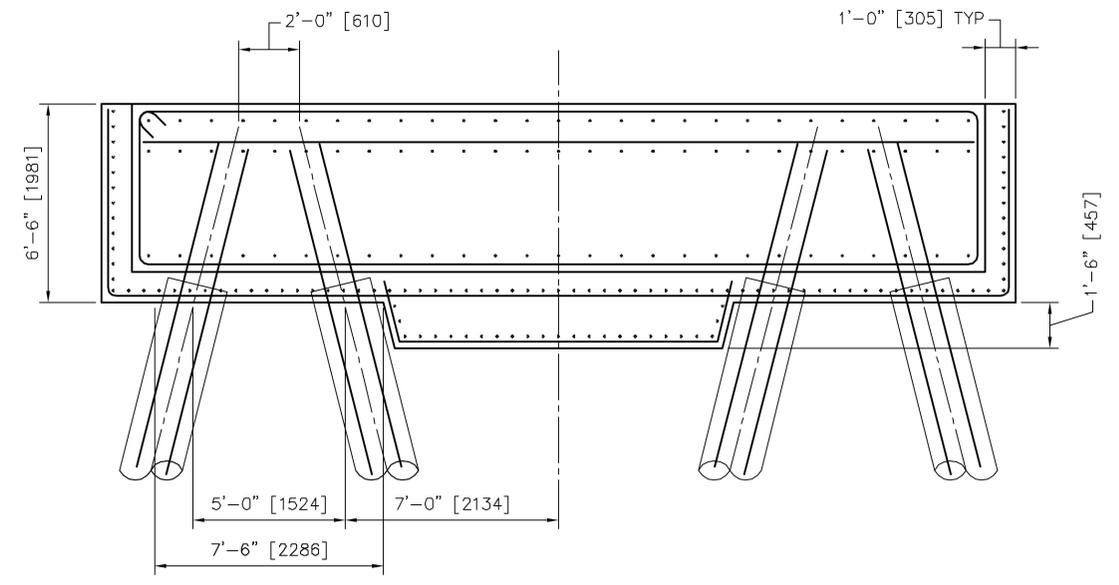


3 PARTIAL PLAN @ MOORING
 S-9 | S-9 SCALE: 1" = 20'
 10 0 10 20
 scale feet

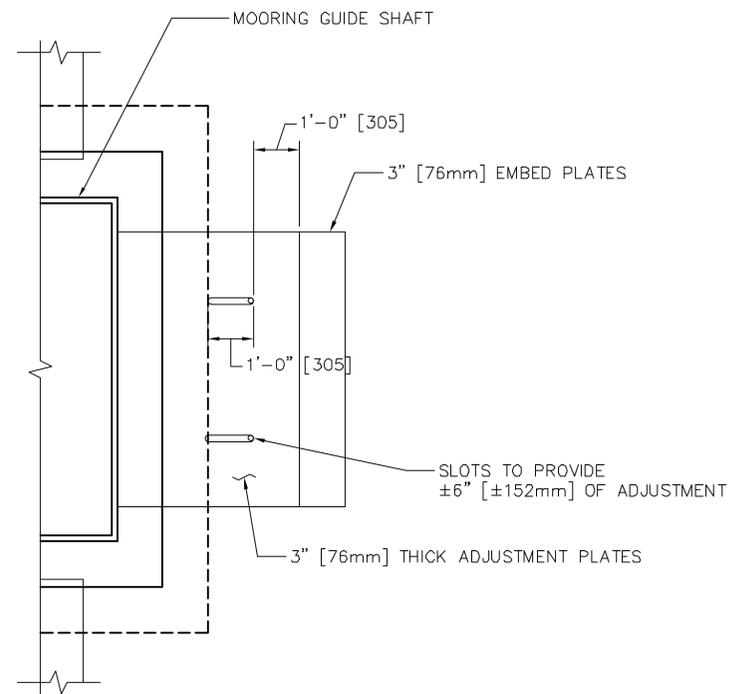
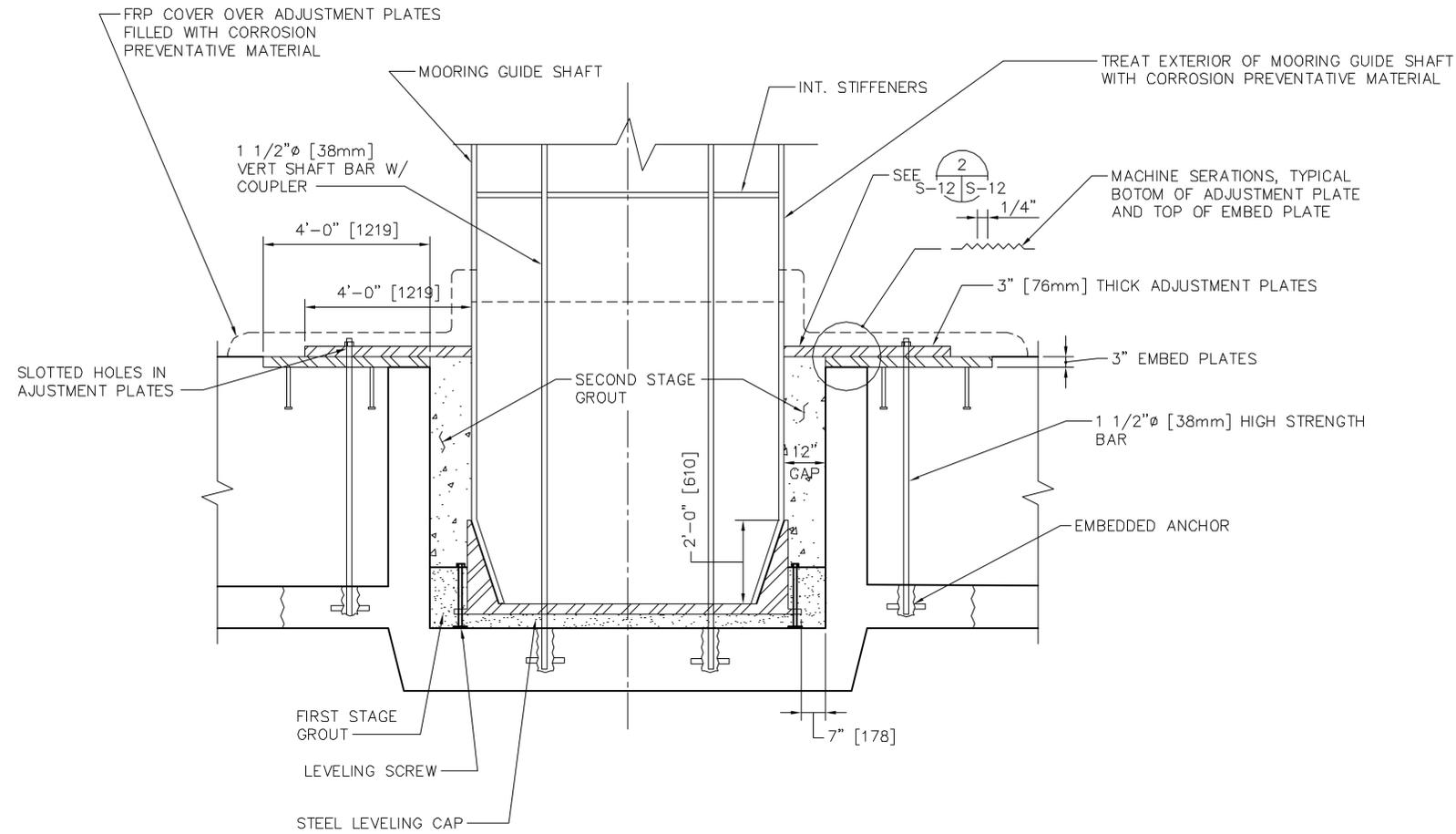
A/E MHZ AMH		DISSEN BRANK REVIEW		CHIEF ARCH/ENR		PROJECT MANAGER		FIRE PROTECTION		QUALITY CONTROL		BRANCH MANAGER		DISSEN											
APPROVED		DATE		APPROVED		DATE		APPROVED		DATE		APPROVED		DATE											
BERGER/ABAM 1000 17th Street, Suite 1000, San Diego, CA 92161 FEDERAL WAY, WASHINGTON BR003-8385 (202) 511-2300 FAX (202) 431-7250												ACTIVITY - SATISFACTORY TD		DATE		APPROVED		DATE		APPROVED		DATE			
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SERVICES CENTER NFESC												MODULAR HYBRID PIER FLOATING PIER		MOORING PLAN AND SECTION		SEAL		489037		REVISIONS		D			
CODE ID. NO. 80091												SIZE 0		SCALE: AS NOTED		EFD NO.		STA. PROJ. NO.		SPEC. NO.		CONSTR. CONTR. NO.		NAVFAC DRAWING NO.	
SHEET OF												S-9		A		B		C		D					



1 PLAN - @ BOTTOM OF PILE CAP
S-11 | S-11 SCALE: 1"=6'-0" FOR TRANSV. AND LONG. COMBINED



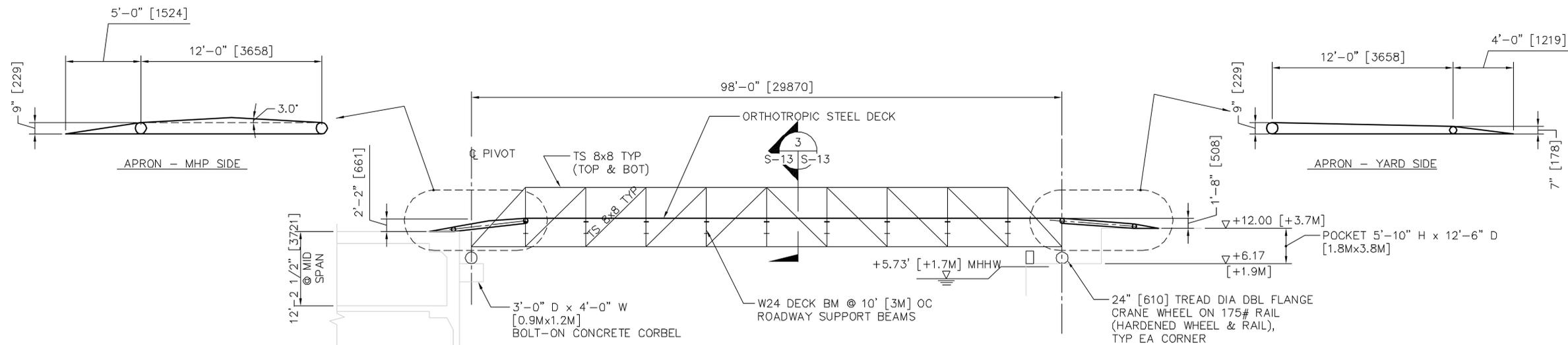
DEPARTMENT OF THE NAVY NAVFAC NAVAL FACILITIES ENGINEERING SERVICES CENTER		PROJECT NO. 80017	
CODE ID. NO. 80091 SCALE: AS NOTED		SHEET OF S-11	
MODULAR HYBRID PIER FLOATING PIER PILECAP PLAN AND SECTION		REVISIONS EFM DATE APPROVED EFM DATE APPROVED EFM DATE APPROVED	
A/E MHZ AMH	DESIGN DRAWN REVIEW CHECK PROJECT MANAGER FIRE PROTECTION QUALITY CONTROL BRANCH MANAGER DESIGN DIRECTOR	EFM DATE APPROVED FOR EFR FOR COMMANDER NAVFAC	EFM DATE APPROVED



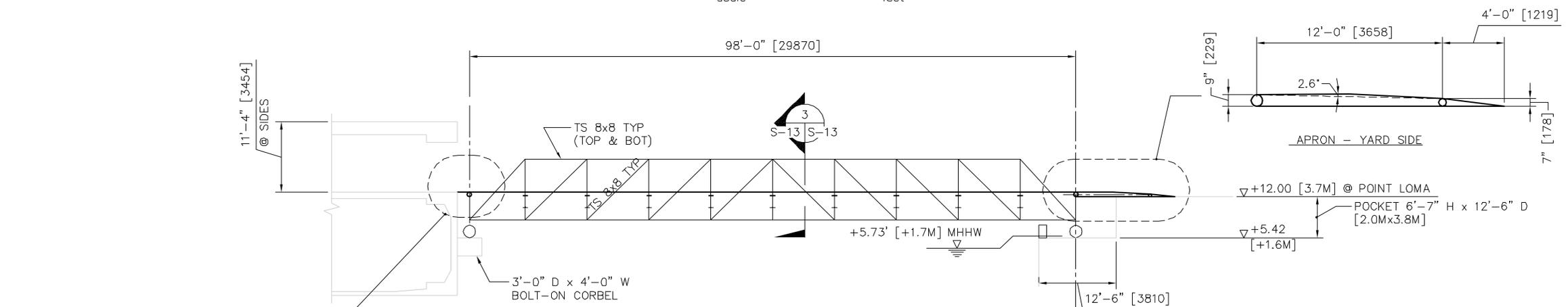
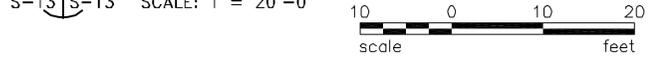
1 **DETAIL**
 S-12 | S-12 SCALE: 1/4"=1'-0"
 2 0 2 4
 scale feet

2 **DETAIL**
 S-12 | S-12 SCALE: 1/4"=1'-0"
 2 0 2 4
 scale feet

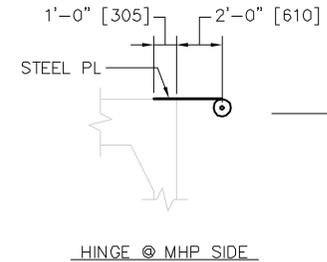
DEPARTMENT OF THE NAVY NAVFAC FACILITIES ENGINEERING SERVICES CENTER NFESC		MODULAR HYBRID PIER FLOATING PIER PILECAP PLAN AND SECTION	
CODE ID. NO. 80091 SCALE: AS NOTED EFD NO. STA. PROJ. NO. SPEC. NO. CONSTR. CONTR. NO. NAVFAC DRAWING NO. SHEET OF	BERGER/ABAM ENGINEERS ARCHITECTS FEDERAL WAY, WASHINGTON, 98003-6395 (206)531-2300 FAX (206)531-2700 APPROVED: [Signature] DATE: [Date] ACTIVITY - SATISFACTORY TO DATE: [Date] APPROVED: [Signature] FOR EFC FOR COMMANDER NAVFAC	A/E M/HZ AMH DESIGN DRAWN REVIEW CHECK ARCH/ENR PROJECT MANAGER FIELD PROTECTOR QUALITY CONTROL BRANCH MANAGER DESIGN DIRECTOR	REVISIONS EFM DATE APPROVED



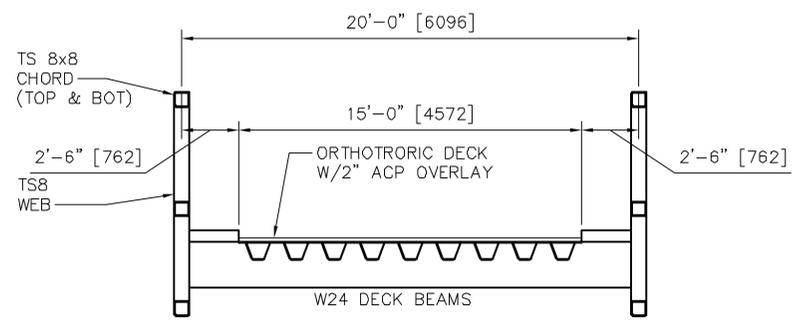
1 OPERATION DECK ACCESS RAMP @ SAN DIEGO (SHOWN IN LEVEL POSITION)



2 SERVICE DECK ACCESS RAMP @ SAN DIEGO (SHOWN IN LEVEL POSITION)



HINGE @ MHP SIDE



3 SECTION



A/E MHZ NIB		EFD DISSEN FRANK		PROJECT MANAGER CHIEF ARCH/ENR		REVISIONS DATE APPROVED	
BERGER/ABAM 1000 17th Avenue South, N.C. FEDERAL WAY, WASHINGTON 98003-8385 (206) 337-2300 FAX (206) 431-2250		APPROVED DATE		ACTIVITY - SATISFACTORY TD APPROVED DATE		SEAL FOR EFD FOR COMMANDER NAVFAC	
DEPARTMENT OF THE NAVY NFESC NAVAL FACILITIES ENGINEERING SERVICES CENTER				MODULAR HYBRID PIER FLOATING PIER PIER TO SHORE ACCESS RAMPS			
CODE ID. NO. 80091 SCALE:		EFD NO.		STA. PROJ. NO.		SPEC. NO.	
CONSTR. CONTR. NO.		NAVFAC DRAWING NO.		SHEET OF		S-13	

TRACTOR
WB 204"
(INT. 2574 6x4)

TRAILER BOX 45'-0"

98'-0" [29870]

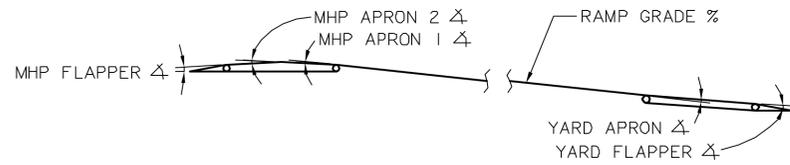
12'-2 1/2" [3721]
@ MID SPAN

ELW/LOADED

MLLW/LOADED

MHHW/LIGHT 13.2% GRADE
EHW/LIGHT

SSEA WALL



DEFINITION

NOTE 1

	MHP FLAPPER Δ	MHP APRON 2 Δ	MHP APRON 1 Δ	RAMP GRADE %	YARD APRON Δ	YARD FLAPPER Δ
ELW/LOADED	-1.1"	6.0"	3.8"	0.35%	4.9"	3.2"
MLLW/LOADED	0"	6.0"	4.2"	3.3%	3.2"	3.2"
MHHW/LIGHT	4.1"	6.0"	5.7"	13.2%	-2.4"	3.2"
EHW/LIGHT	5.6"	6.0"	6.0"	15.8%	-3.9"	3.2"

ALLOWABLE	FROM RAMSEY & SLEEPER PARKING STRUCTURES	
	VEHICLE STANDARDS - MAX	
APPROACH ANGLE	14.0 DEGREES	24.90%
DEPARTURE ANGLE	8.0 DEGREES	14.10%
BREAKOVER ANGLE	6.0 DEGREES	10.50%
DIP ANGLE		

BRIDGE CATERAL MOVEMENT 3'-0" [914]
3'-0" [914] NOTE 2

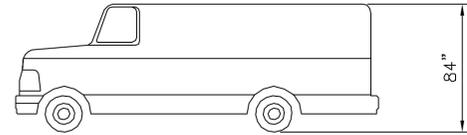
NOTES:

1. NEGATIVE Δ: DIP Δ
POSITIVE Δ: BREAKOVER Δ
2. YARD END SHOWN AS VARYING FOR EASE OF COMPUTATION. ACTUAL ELEVATION VARIATION IS AT MHP END.

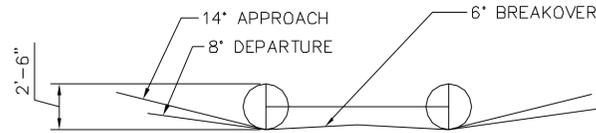
1 OPERATION DECK ACCESS RAMP PROFILE @ SAN DIEGO
S-14 S-14 SCALE: 1" = 10'-0" (PROFILE SHOWN RELATIVE TO MHP)



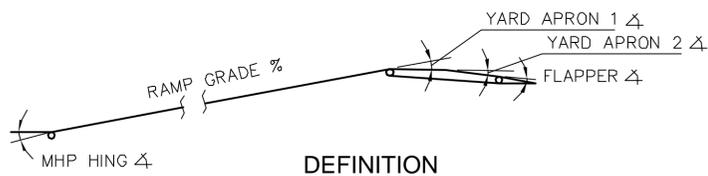
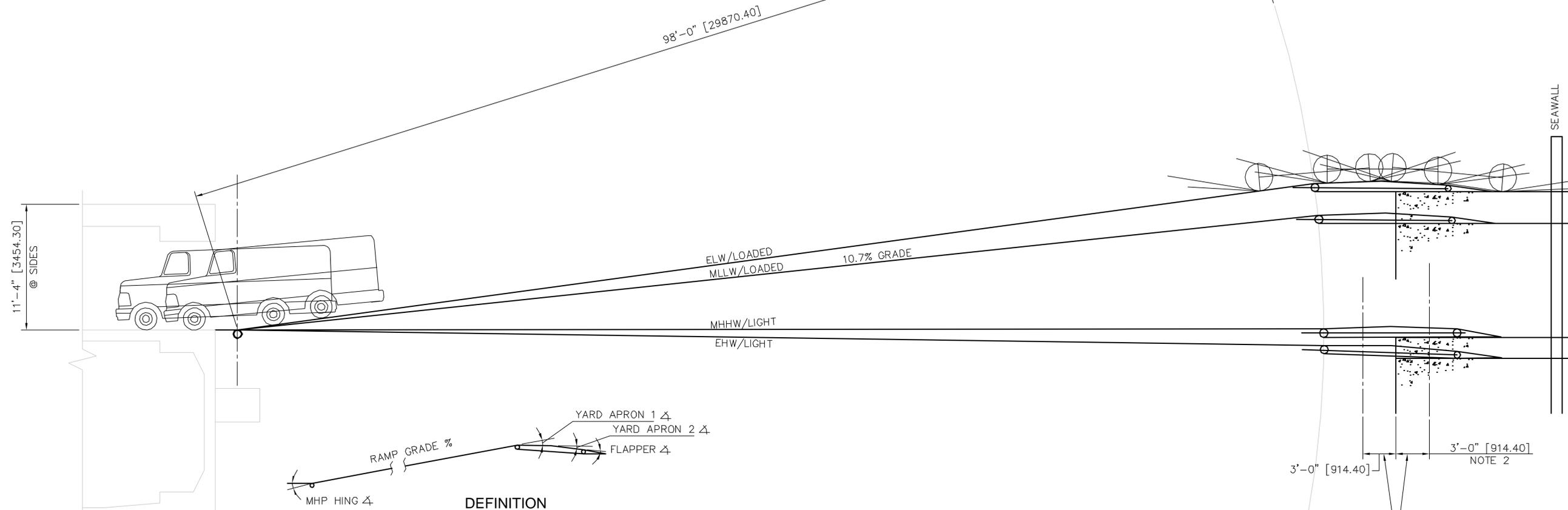
BERGER/ABAM BERGER/ABAM ENGINEERING SERVICES CENTER 1000 15th Street, Suite 200 Federal Way, Washington 98003-8385 (206) 835-2200 FAX (206) 835-2250		PROJECT NO. _____ PROJECT MANAGER _____ PROJECT ENGINEER _____ PROJECT CHECKER _____ PROJECT DATE _____ PROJECT SYM _____ PROJECT DESCRIPTION _____ PROJECT DATE _____ PROJECT APPROVED _____ PROJECT DIRECTOR _____										
APPROVED _____ DATE _____ FOR EFD FOR COMMANDER NAVFAC		SEAL 689037										
DEPARTMENT OF THE NAVY NAVFAC NAVAL FACILITIES ENGINEERING SERVICES CENTER		MODULAR HYBRID PIER FLOATING PIER OPERATIONS DECK RAMP MOTIONS										
CODE ID. NO. 80091 SIZE 0 SCALE: _____ EFD NO. _____ STA. PROJ. NO. _____ SPEC. NO. _____ CONSTR. CONTR. NO. _____ NAVFAC DRAWING NO. _____ SHEET _____ OF _____ S-14		REVISIONS <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>		NO.	DATE	DESCRIPTION						
NO.	DATE	DESCRIPTION										



138" WHEELBASE FORD "MAXIVAN"



120" WHEEL BASE VEHICLE



DEFINITION

NOTE 1

	MHP HINGE Δ	RAMP GRADE	YARD APRON 1 Δ	YARD APRON 2 Δ	FLAPPER Δ
ELW/LOADED	-7.7'	13.5%	6.0'	5.2'	4.8'
MLLW/LOADED	-6.1'	10.7%	4.3'	5.2'	4.8'
MHHW/LIGHT	-0.1'	0.2%	1.8'	5.2'	4.8'
EHW/LIGHT	-1.0'	1.75%	0.8'	5.2'	4.8'

ALLOWABLE	FROM RAMSEY & SLEEPER PARKING STRUCTURES	
	VEHICLE STANDARDS - MAX	
APPROACH ANGLE	14.0 DEGREES	24.90%
DEPARTURE ANGLE	8.0 DEGREES	14.10%
BREAKOVER ANGLE	6.0 DEGREES	10.50%
DIP ANGLE		

1 SERVICE DECK ACCESS RAMP PROFILE @ SAN DIEGO
S-15 S-15 SCALE: 1" = 10'-0"

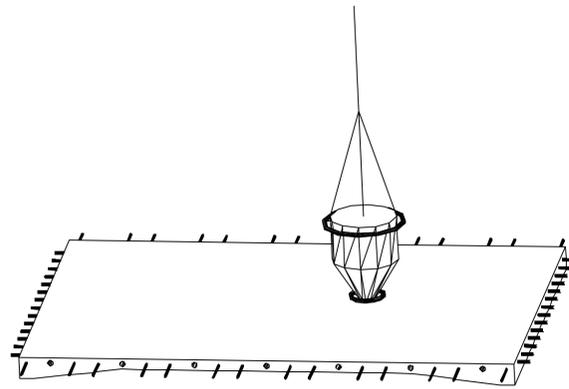


NOTES:

1. NEGATIVE Δ: DIP Δ
POSITIVE Δ: BREAKOVER Δ
2. YARD END SHOWN AS VARYING FOR EASE OF COMPUTATION. ACTUAL ELEVATION VARIATION IS AT MHP END.

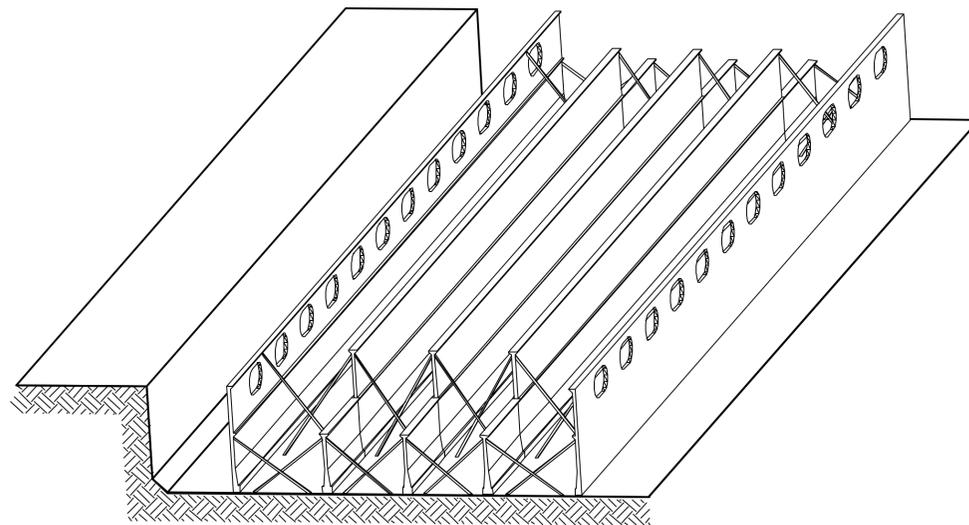
A/E: M/Z DESIGN: NLE REVIEW: [blank] PROJECT MANAGER: [blank] FIRE PROTECTION: [blank] QUALITY CONTROL: [blank] BRANCH MANAGER: [blank] DESIGN: [blank]		ETD: [blank] REVISIONS: [blank]	
BERGER/ADAM 1000 15th Street, Suite 100 Federal Way, Washington 98003-8385 (206) 831-2300 FAX (206) 831-2250		APPROVED: [blank] DATE: [blank] AUTHORITY: [blank] SATISFACTORY ID: [blank] APPROVED: [blank] DATE: [blank]	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SERVICES CENTER NFESC		SEAL 488037	
MODULAR HYBRID PIER FLOATING PIER SERVICE DECK RAMP MOTION		A B C D	
CODE ID: NO. 80091 SIZE: 0 SCALE: [blank]		SHEET OF S-15	

MHP MODULE MANUFACTURING SEQUENCE



STAGE 1

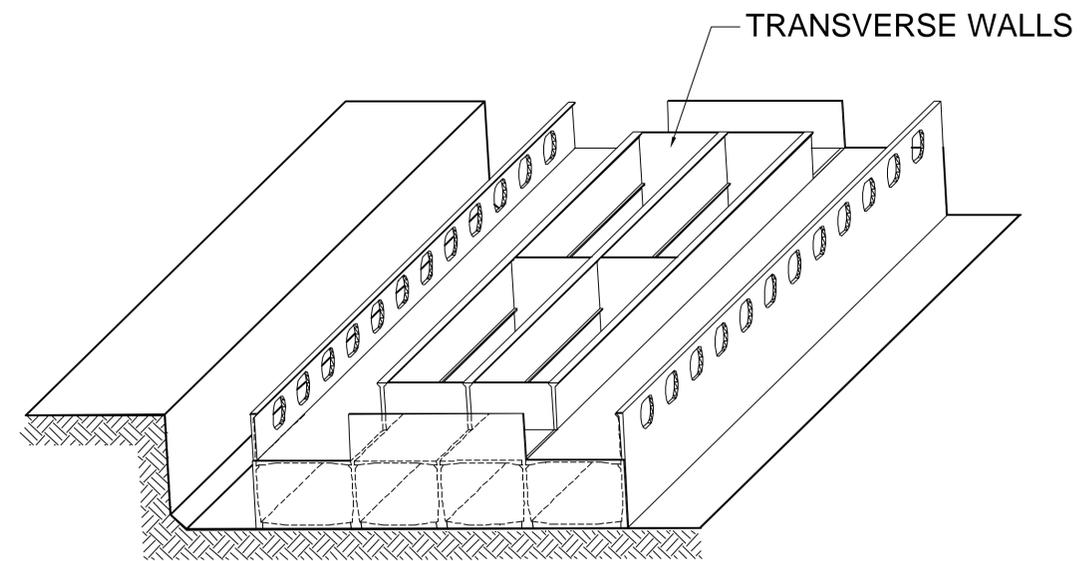
THE ELEMENTS ARE CAST AS FLAT PANELS IN A CONTROLLED FACTORY ENVIRONMENT USING MARINE GRADE HIGH STRENGTH LIGHT WEIGHT CONCRETE. ELEMENTS ARE FABRICATED WITH DUCTS TO ALLOW LATER POST TENSIONING



STAGE 2

THE LONGITUDINAL WALL ELEMENTS ARE ERECTED IN A DRY DOCK. THEY ARE TEMPORARILY POSITIONED USING STANDARD ERECTION HARDWARE AS USED IN THE BUILDING INDUSTRY.

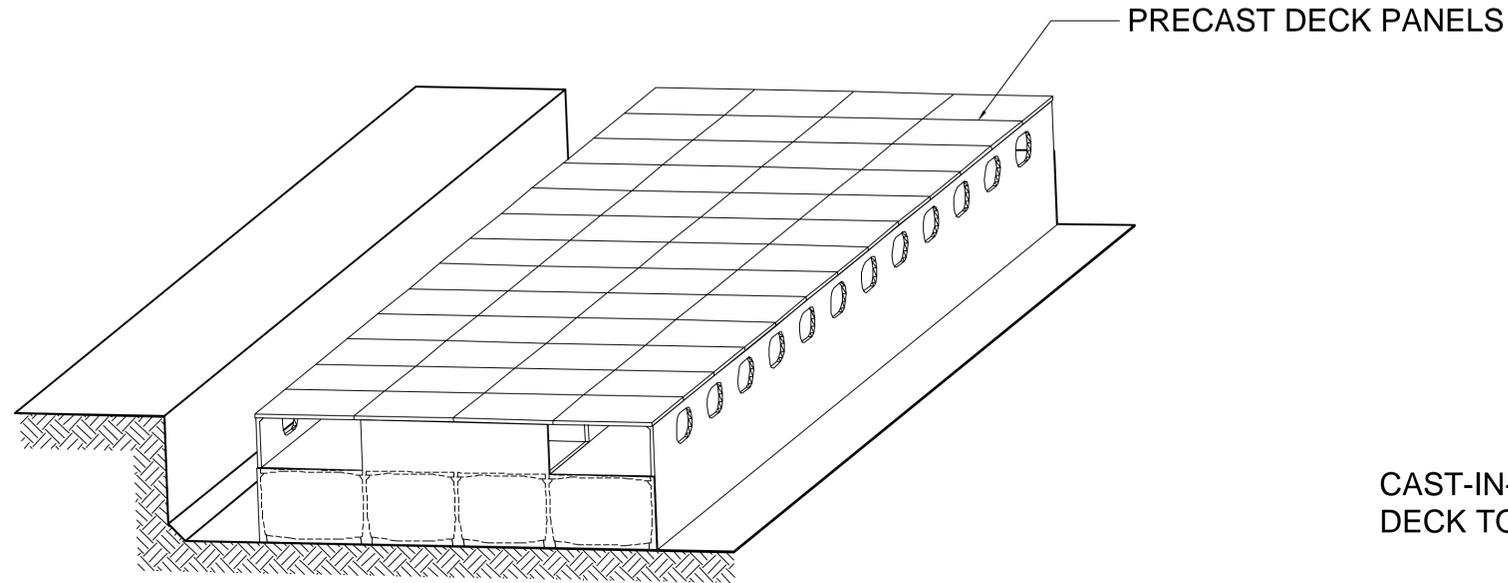
THE BOTTOM PLATE AND TRANSVERSE END AND INTERIOR WALL ELEMENTS ARE CONSTRUCTED OF CAST-IN-PLACE CONCRETE. THIS SERVES TO INTEGRATE ALL OF THE WALL ELEMENTS AND THE BOTTOM PLATE.



STAGE 3

DEPARTMENT OF THE NAVY NAVFAC NAVAL FACILITIES ENGINEERING SERVICES CENTER		BERGER/ABAM 1000 SOUTH KENNEDY BLVD FORT WASHINGTON, PA 19073-3385 (215) 261-2200 FAX (215) 261-2250		PROJECT NO. _____ PROJECT NAME _____ PROJECT MANAGER _____ PROJECT ENGINEER _____ PROJECT ARCHITECT _____ PROJECT CHECKER _____ PROJECT DATE _____		ACTIVITY - SATISFACTORY TO _____ APPROVED BY _____ APPROVED DATE _____ SEAL FOR EFD FOR COMMANDER NAVFAC		REVISIONS NO. _____ DESCRIPTION _____ DATE _____ APPROVED _____	
NAVFAC DRAWING NO. _____ SHEET _____ OF _____ S-17		MODULAR HYBRID PIER FLOATING PIER MODULE MANUFACTURING STAGES		689037		A		B	
8		7		6		5		4	
3		2		1		A		D	

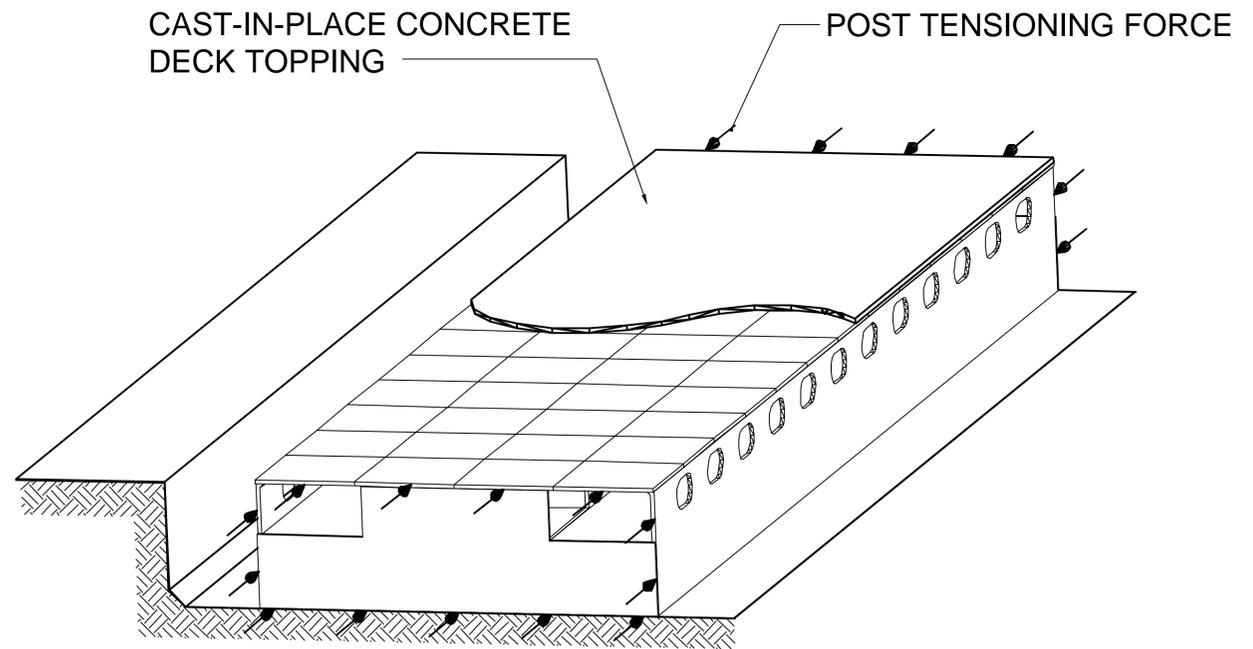
MHP MODULE MANUFACTURING SEQUENCE



STAGE 4

PRECAST/PRESTRESSED CONCRETE DECK PANELS ARE THEN PLACED AS THE FIRST STEP IN DECK CONSTRUCTION.

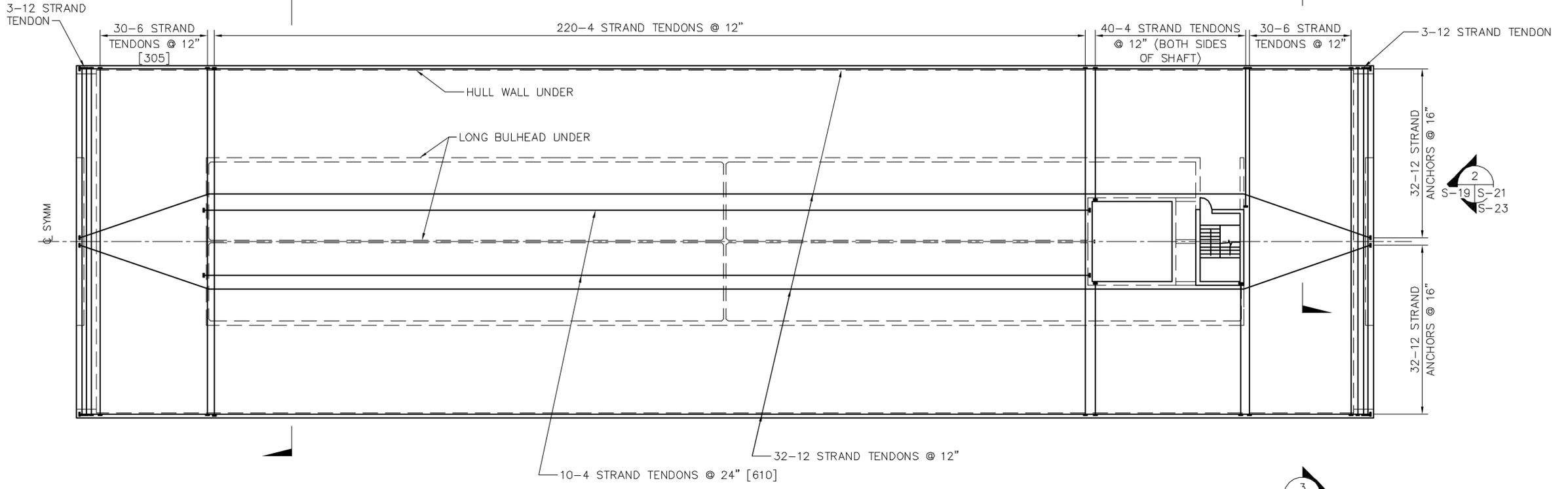
POST TENSIONING TENDONS ARE INSTALLED ON THE DECK AT THIS STAGE.



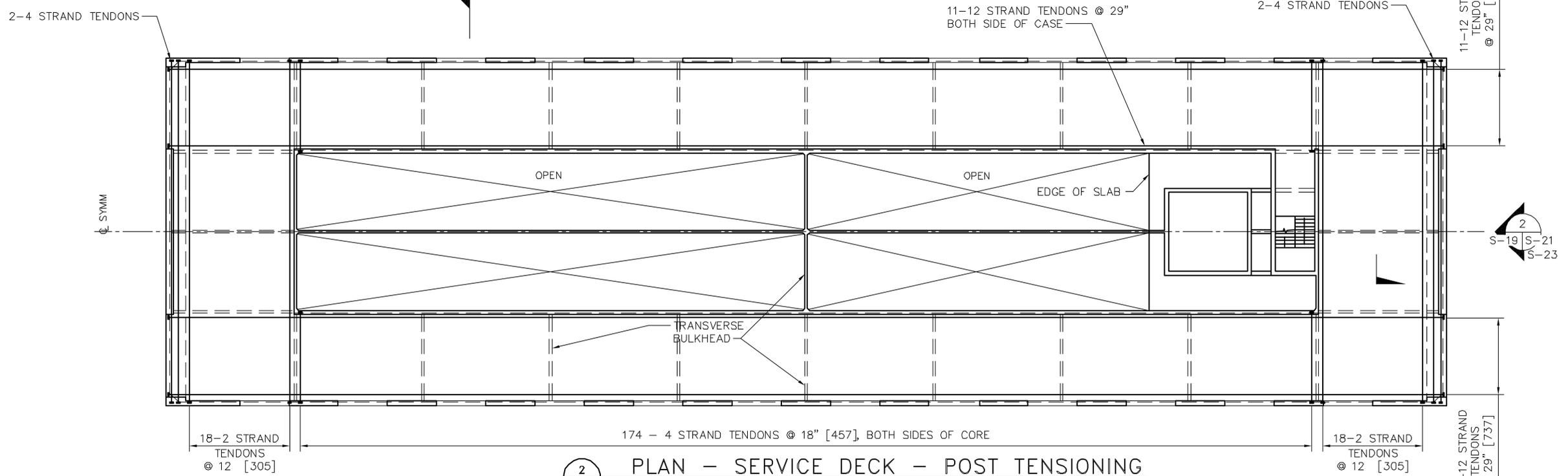
STAGE 5

A CAST-IN-PLACE TOPPING IS THEN PLACED OVER THE PRECAST DECK PLANKS. THIS TOPPING SERVES TO CONNECT ALL PLATFORM ELEMENTS INTO AN INTEGRAL WHOLE. THE PLATFORM MODULES ARE AXIALLY POST TENSIONED AFTER THE PLACEMENT OF THE DECK.

DEPARTMENT OF THE NAVY NAVFAC NAVAL FACILITIES ENGINEERING SERVICES CENTER		BERGER/ABAM 1000 K STREET, N.W. WASHINGTON, D.C. 20004-6302 (202) 637-2200 FAX (202) 637-2250		PROJECT MANAGER FIRE PROTECTION QUALITY CONTROL BRANCH MANAGER DESIGN DIRECTOR		REVISIONS NO. DESCRIPTION DATE APPROVED	
MODULAR HYBRID PIER FLOATING PIER MODULE MANUFACTURING STAGES		APPROVED: _____ DATE _____ AUTHORITY: Satisfactory TD APPROVED: _____ DATE _____ SEAL FOR EFD FOR COMMANDER NAVFAC		EFD NO. _____ STA. PROJ. NO. _____ SPEC. NO. _____ CONSTR. CONTR. NO. _____ NAVFAC DRAWING NO. _____		CODE ID. NO. 80091 SIZE 0	
S-18		SHEET OF		1		8	

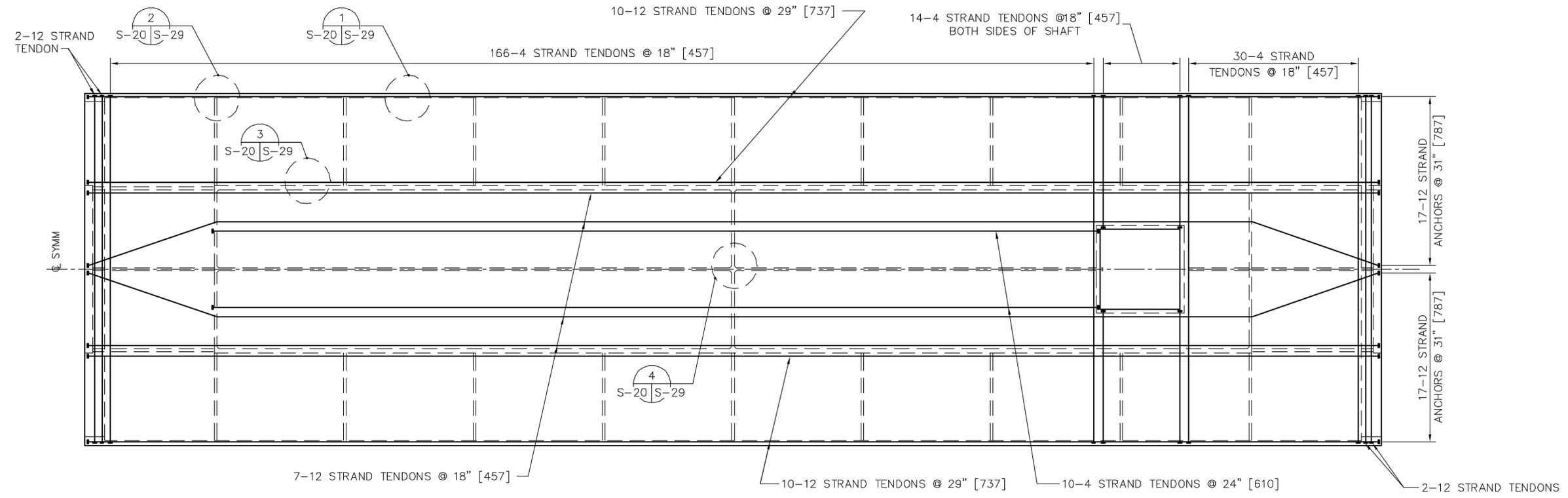


PLAN - OPERATIONS DECK - POST TENSIONING
 SCALE: 1"=30'-0" MODULE 1 SHOWN



PLAN - SERVICE DECK - POST TENSIONING
 SCALE: 1"=30'-0" MODULE 1 SHOWN

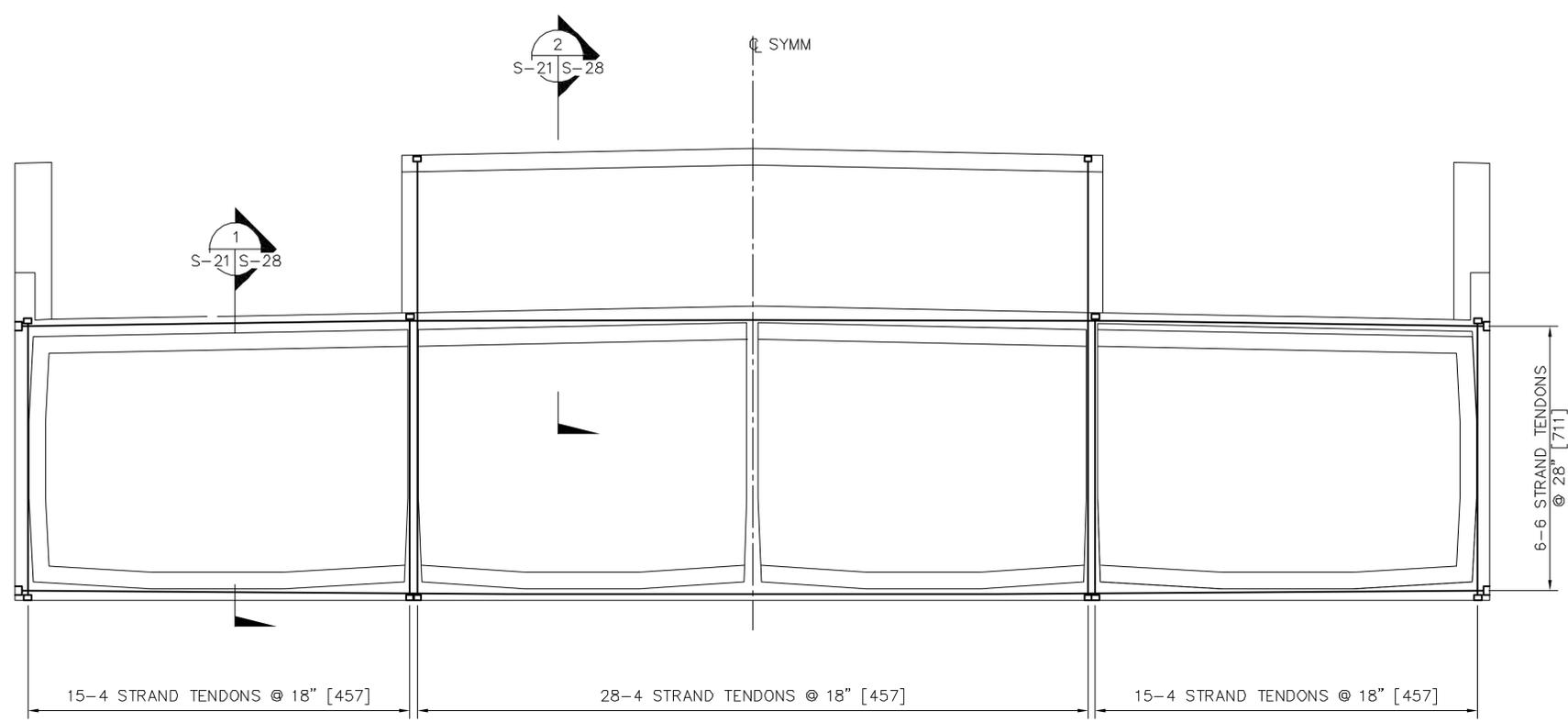
A/E MHZ AMH		DISSEN BRANK REVIEW		CHIEF ARCH/ENR PROJECT MANAGER		FIRE PROTECTION QUALITY CONTROL		BRANCH MANAGER DISSEN		REVISIONS DATE APPROVED	
BERGER/ABAM 1000 15th St. N.E. FEDERAL WAY, WASHINGTON 98003-8385 (206)331-2300 FAX (206)431-7250		APPROVED DATE		SATISFACTORY TO APPROVED DATE		SEAL FOR ETD FOR COMMANDER NAVFAC		SEAL 089037		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SERVICES CENTER NFESC MODULAR HYBRID PIER FLOATING PIER PLAN - OPERATIONS DECK, & SERVICE DECK - PT	
CODE ID. NO. 80091 SCALE: AS NOTED		ETD NO.		STA. PROJ. NO.		SPEC. NO.		CONSTR. CONTR. NO.		NAVFAC DRAWING NO.	
SHEET OF		S-19		1		1		1		1	




PLAN - KEEL SLAB - POST TENSIONING
 S-20/S-20 SCALE: 1"=30'-0" MODULE 1 SHOWN

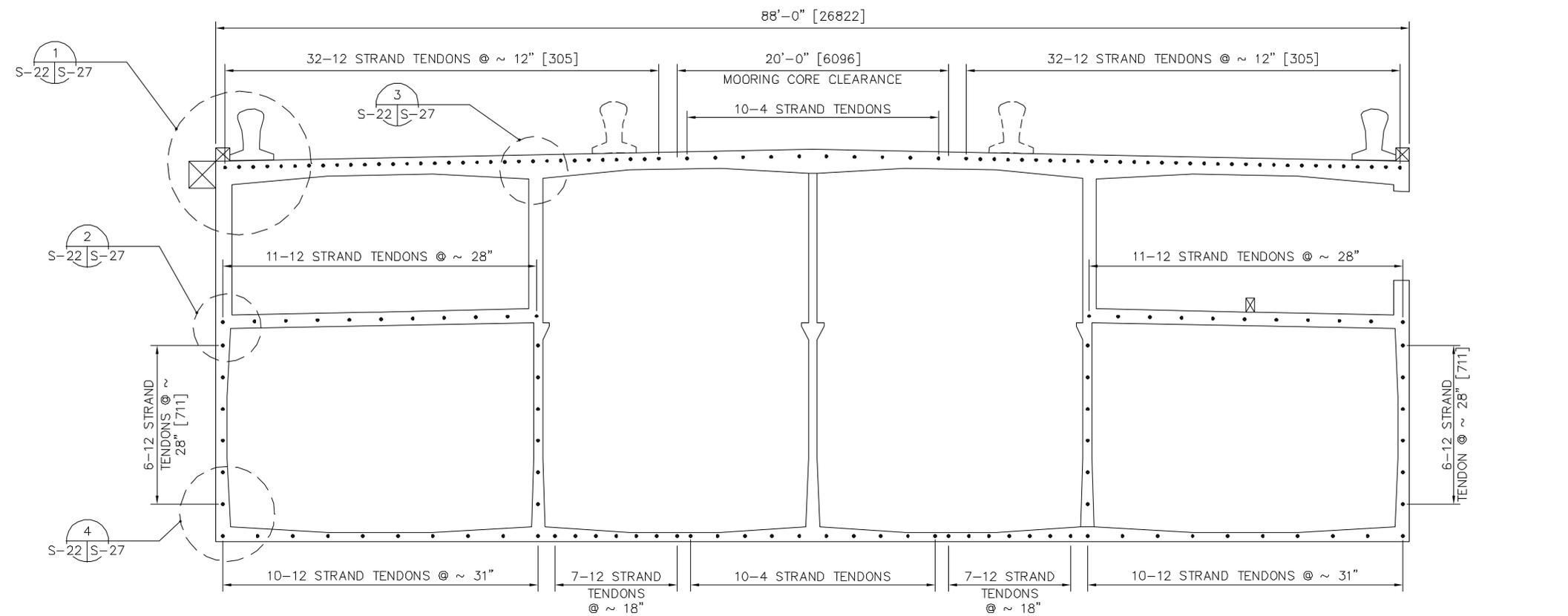
 scale

DEPARTMENT OF THE NAVY NAVFAC NAVAL FACILITIES ENGINEERING SERVICES CENTER		MODULAR HYBRID PIER FLOATING PIER PLAN - KIEL SLAB - POST TENSIONING		REVISIONS DATE DESCRIPTION SYM
APPROVED FOR EFD FOR COMMANDER NAVFAC SEAL AS9037		APPROVED DATE DESCRIPTION SYM		
BERGER/ABAM 1000 1ST AVENUE SOUTH, N.C. FEDERAL WAY, WASHINGTON 98033-8385 (206) 437-2300 FAX (206) 437-2250		PROJECT MANAGER FIRE PROTECTION QUALITY CONTROL BRANCH MANAGER DESIGN DIRECTOR		APPROVED DATE DESCRIPTION SYM
APPROVED DATE ACTIVITY - SATISFACTORY TD APPROVED		PROJECT MANAGER FIRE PROTECTION QUALITY CONTROL BRANCH MANAGER DESIGN DIRECTOR		
CODE ID. NO. 80091 SIZE 0		SCALE: AS NOTED		APPROVED DATE DESCRIPTION SYM
EFD NO.		STA. PROJ. NO.		
SPEC. NO.		CONSTR. CONTR. NO.		APPROVED DATE DESCRIPTION SYM
NAVFAC DRAWING NO.		SHEET OF		
S-20		SHEET OF		APPROVED DATE DESCRIPTION SYM
S-20		SHEET OF		

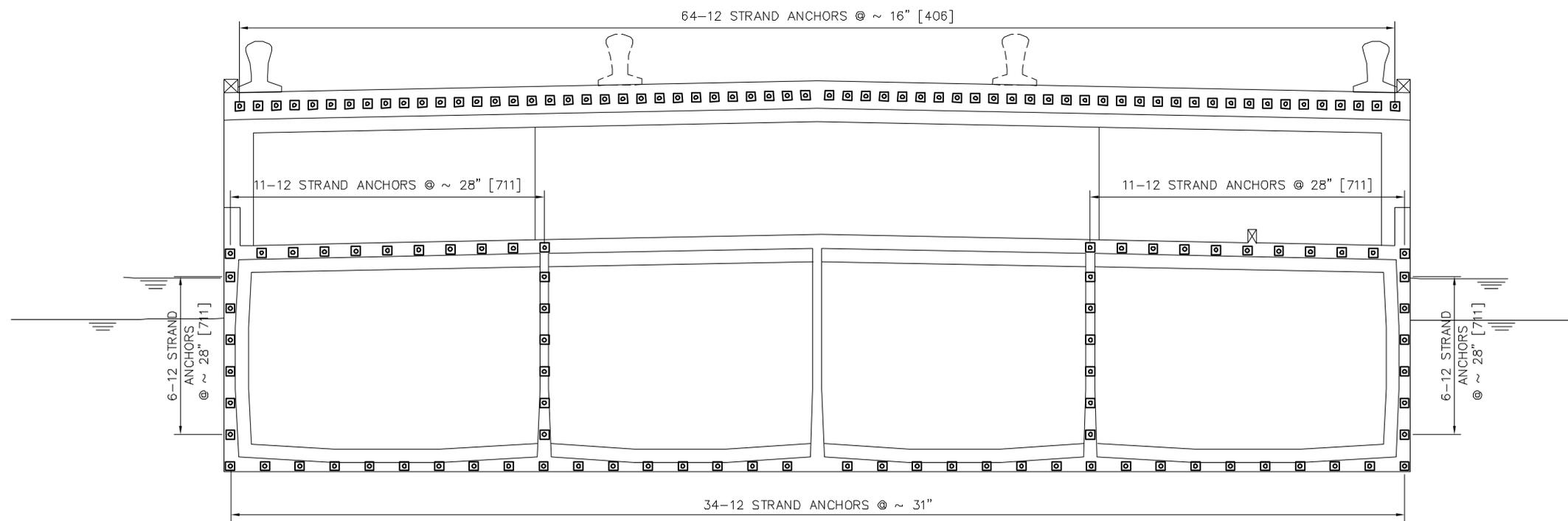


2 ELEVATION - END WALL
 S-19 | S-21 SCALE: 1"=10'-0"
 1"=10'
 scale feet

DEPARTMENT OF THE NAVY NFESC NAVAL FACILITIES ENGINEERING SERVICES CENTER	MODULAR HYBRID PIER FLOATING PIER ELEVATION - END WALL	NAVFAC DRAWING NO. S-21	SHEET OF 1
CODE ID. NO. 80091 SIZE 0 SCALE: AS NOTED		STA. PROJ. NO. SPEC. NO. CONSTR. CONTR. NO.	
APPROVED: _____ DATE _____ PROJECT MANAGER: _____ FIRE PROTECTION: _____ QUALITY CONTROL: _____ BRANCH MANAGER: _____ DESIGN: _____		APPROVED: _____ DATE _____ SYM	
BERGER/ABAM 1000 15th Avenue South, N.C. FEDERAL WAY, WASHINGTON 98003-8385 (206)337-2300 FAX (206)431-7250		APPROVED: _____ DATE _____ ACTIVITY - SATISFACTORY TO DATE APPROVED: _____ DATE _____ FOR EFD FOR COMMANDER NAVFAC	
A/E: _____ M/HZ: _____ AMH: _____ DESIGN: _____ REVIEW: _____ CHECK: _____ ARCH/ENR		REVISIONS DESCRIPTION DATE APPROVED	



1
S-19 | S-22 TYPICAL CROSS SECTION SCALE: 1"=10'-0"



1
S-19 | S-22 CROSS SECTION AT MODULE ENDS SCALE: 1"=10'-0"



A/E MHZ AMH		DISSEN BRANK REVIEW		CHIEF ARCH/ENR PROJECT MANAGER		FIRE PROTECTION QUALITY CONTROL		BRANCH MANAGER DISSEN		REVISIONS DATE APPROVED	
BERGER/ABAM 1000 15th Street, N.W. Washington, D.C. 20004-3020 (202) 331-2200 FAX (202) 431-2250		APPROVED DATE		ACTIVITY - SATISFACTORY TO APPROVED DATE		SEAL FOR EFD FOR COMMANDER NAVFAC		AS9037		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SERVICES CENTER NFESC MODULAR HYBRID PIER FLOATING PIER CROSS SECTION	
CODE ID. NO. 80091 SCALE: AS NOTED		EFD NO.		STA. PROJ. NO.		SPEC. NO.		CONSTR. CONTR. NO.		NAVFAC DRAWING NO.	
SHEET OF S-22											

ANCHOR PLATE FOR JOINING RODS

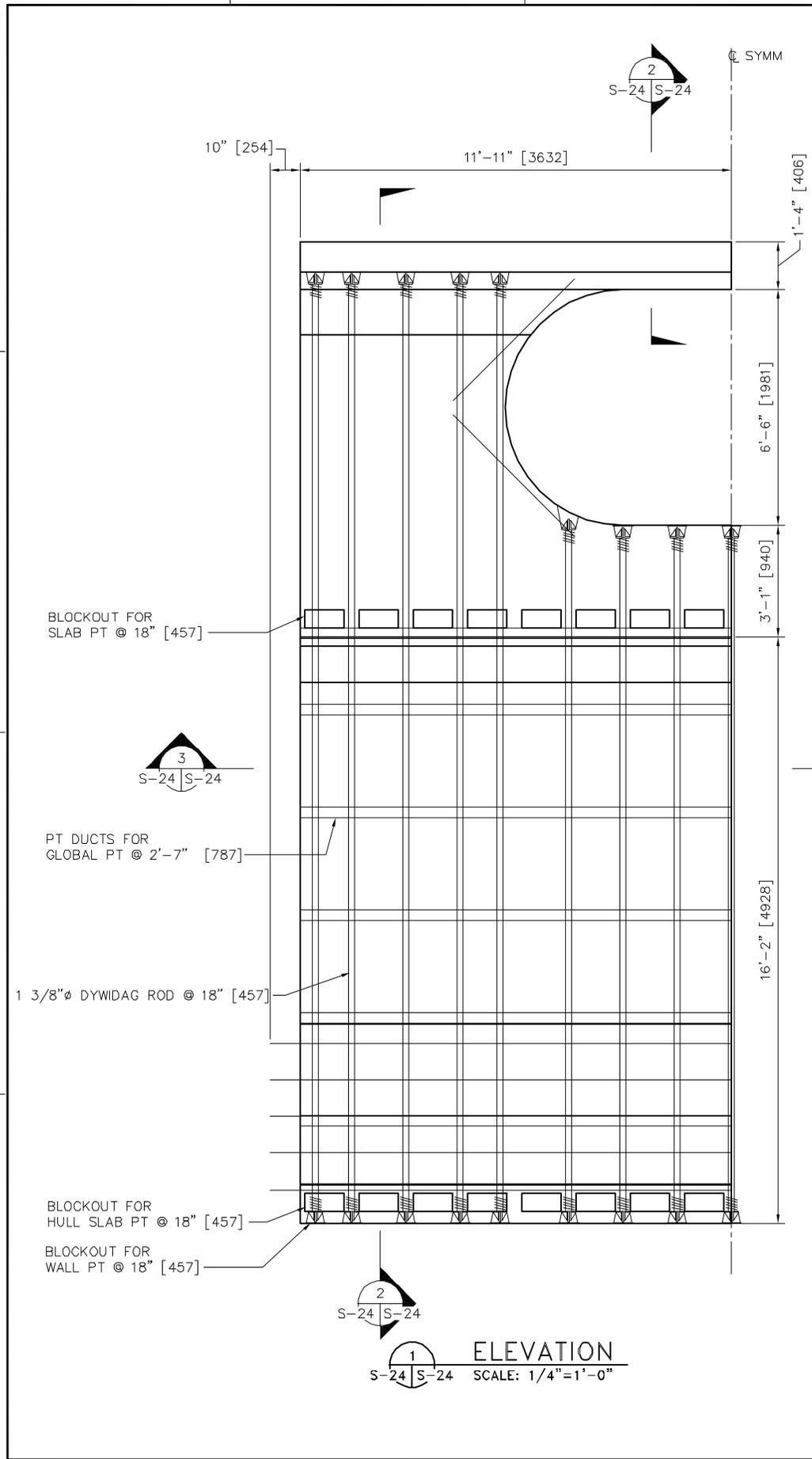
PT STRAND

11-12 STRAND ANCHOR @ ~ 28"

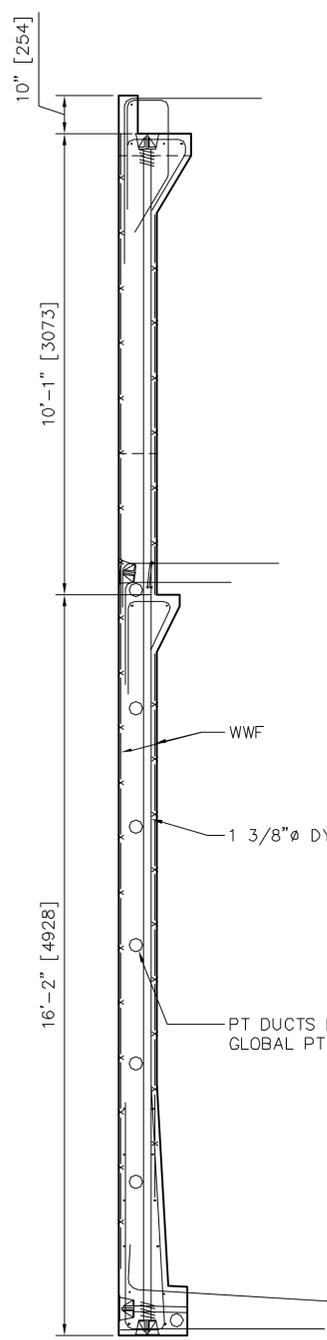
3 CROSS SECTION AT MODULE ENDS
 S-19 | S-23 SCALE: 3/16"=1'-0"



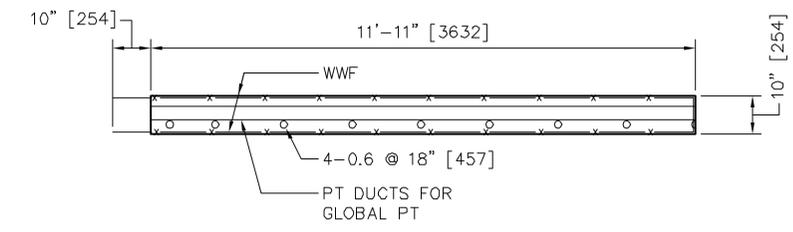
DEPARTMENT OF THE NAVY NAVFAC NAVAL FACILITIES ENGINEERING SERVICES CENTER		PROJECT NO. MODULAR HYBRID PIER FLOATING PIER CROSS SECTION		SHEET OF S-23	
APPROVED: _____ DATE: _____ PROJECT MANAGER: _____ QUALITY CONTROL: _____ BRANCH MANAGER: _____ DESIGN DIRECTOR: _____		APPROVED: _____ DATE: _____ PROJECT MANAGER: _____ QUALITY CONTROL: _____ BRANCH MANAGER: _____ DESIGN DIRECTOR: _____		APPROVED: _____ DATE: _____ PROJECT MANAGER: _____ QUALITY CONTROL: _____ BRANCH MANAGER: _____ DESIGN DIRECTOR: _____	
A/E: _____ M/H: _____ AMH: _____ REVIEW: _____ CHECK: _____ ARCH/ENR: _____		BERGER/ABAM 1000 15th Avenue South, N.C. FEDERAL WAY, WASHINGTON 98003-8385 (206)331-2300 FAX (206)431-2250		APPROVED: _____ DATE: _____ PROJECT MANAGER: _____ QUALITY CONTROL: _____ BRANCH MANAGER: _____ DESIGN DIRECTOR: _____	
NAVFAC DRAWING NO. _____		NAVFAC DRAWING NO. _____		NAVFAC DRAWING NO. _____	
CODE ID. NO. 80091 SIZE 0		SCALE: AS NOTED		SHEET OF	



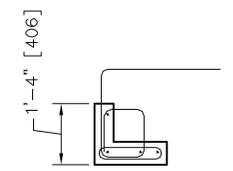
1
ELEVATION
S-24 | S-24 SCALE: 1/4"=1'-0"



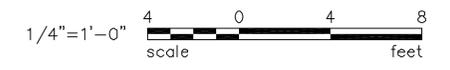
2
SECTION
S-24 | S-24 SCALE: 1/4"=1'-0"



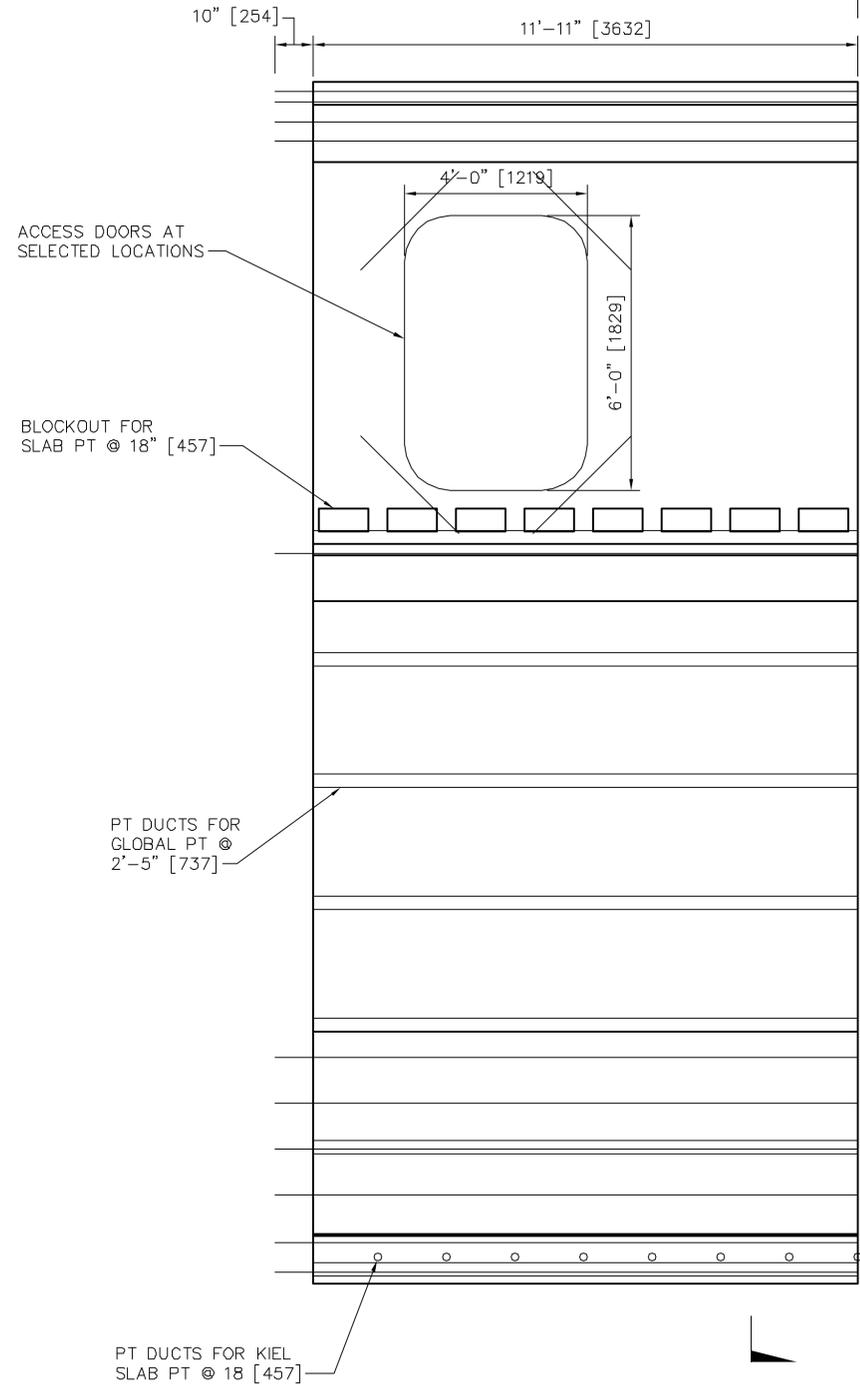
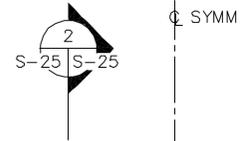
3
SECTION
S-24 | S-24 SCALE: 1/4"=1'-0"



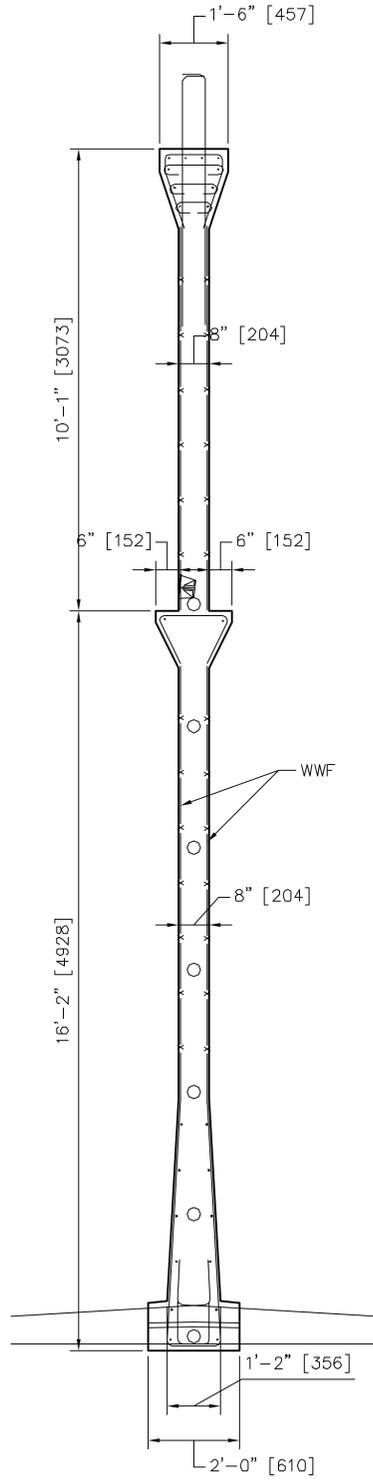
4
SECTION
S-24 | S-24 SCALE: 1/4"=1'-0"



DEPARTMENT OF THE NAVY NAVFAC NAVAL FACILITIES ENGINEERING SERVICES CENTER		PROJECT NO. MODULAR HYBRID PIER FLOATING PIER EXTERIOR WALL - ELEVATION AND SECTIONS	
CODE ID. NO. 80091 SCALE: AS NOTED		SHEET OF S-24	
EFD NO. STA. PROJ. NO. SPEC. NO. CONSTR. CONTR. NO.		PROJECT MANAGER FIRE PROTECTION QUALITY CONTROL BRANCH MANAGER DESIGN DIRECTOR	
APPROVED FOR EDR FOR COMMANDER NAVFAC		APPROVED DATE APPROVED DATE APPROVED DATE	
BERGER/ABAM 10000 W. KENNEDY BLVD. SUITE 100 FORT WORTH, TEXAS 76133-3995 (817) 336-2300 FAX (817) 336-2320		REVISIONS SYM DESCRIPTION DATE APPROVED	

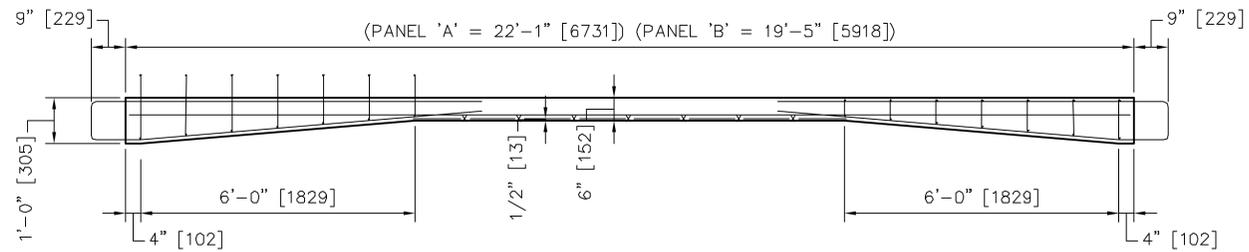


1 ELEVATION - INTERIOR WALL
S-25 | S-25 SCALE: 1/4"=1'-0"

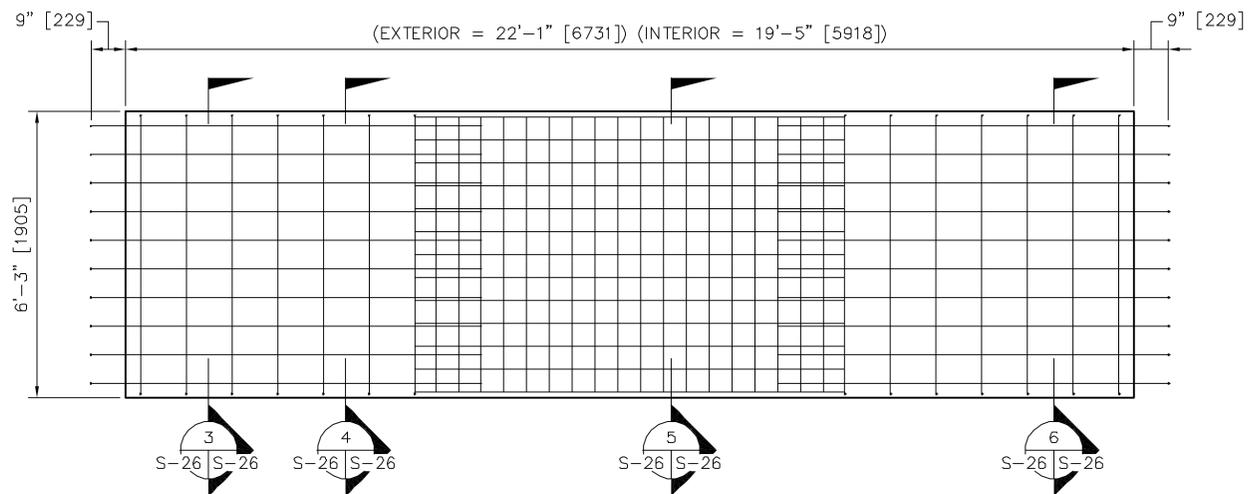


2 SECTION
S-25 | S-25 SCALE: 1/4"=1'-0"

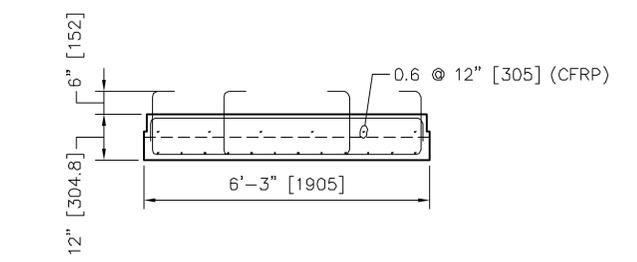
DEPARTMENT OF THE NAVY NFESC NAVAL FACILITIES ENGINEERING SERVICES CENTER		BERGER/ABAM 1000 W. MARKET STREET, SUITE 200 FEDERAL WAY, WASHINGTON, BR001-8395 (202) 631-2300 FAX: (202) 631-2350		PROJECT NUMBER: _____ PROJECT NAME: _____ PROJECT MANAGER: _____ PROJECT ENGINEER: _____ PROJECT ARCHITECT: _____ PROJECT CONTRACTOR: _____ PROJECT DATE: _____		APPROVED: _____ DATE: _____ APPROVED: _____ DATE: _____	
MODULAR HYBRID PIER FLOATING PIER INTERIOR WALL - ELEVATION AND SECTIONS		NAVFAC DRAWING NO. _____ SHEET _____ OF _____ S-25		REVISIONS NO. DATE DESCRIPTION		SEAL FOR ETD FOR COMMANDER NAVFAC	



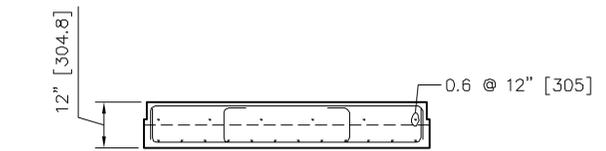
1 ELEVATION - EXTERIOR PANEL
 S-26 | S-26 SCALE: 1/4"=1'-0" (INTERIOR PANEL SIMILAR)



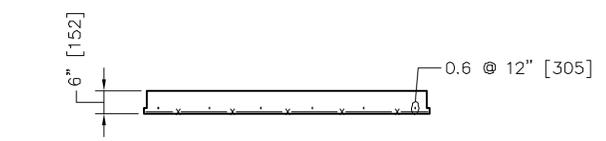
2 PLAN - EXTERIOR PANEL
 S-26 | S-26 SCALE: 1/4"=1'-0" (INTERIOR PANEL SIMILAR)



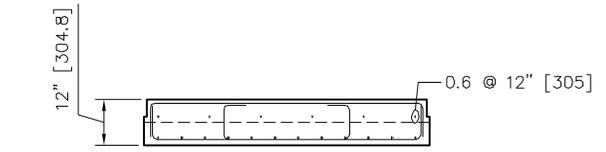
3 SECTION - EXTERIOR PANEL
 S-26 | S-26 SCALE: 1/4"=1'-0"



4 SECTION - INTERIOR PANEL
 S-26 | S-26 SCALE: 1/4"=1'-0"

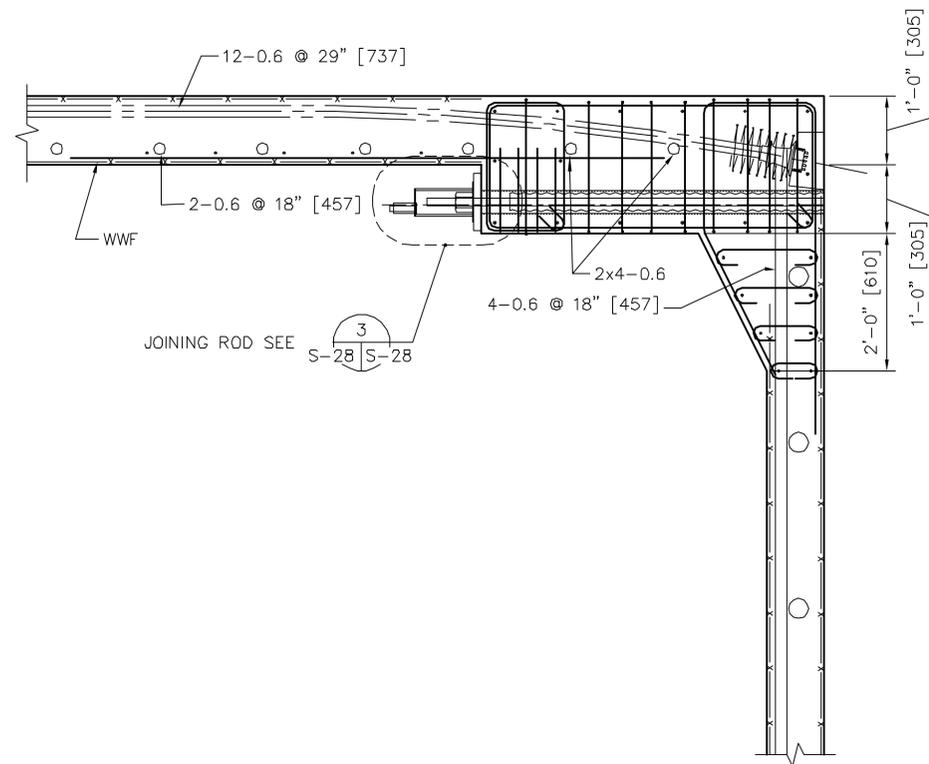


5 SECTION - INTERIOR/EXTERIOR PANEL
 S-26 | S-26 SCALE: 1/4"=1'-0"



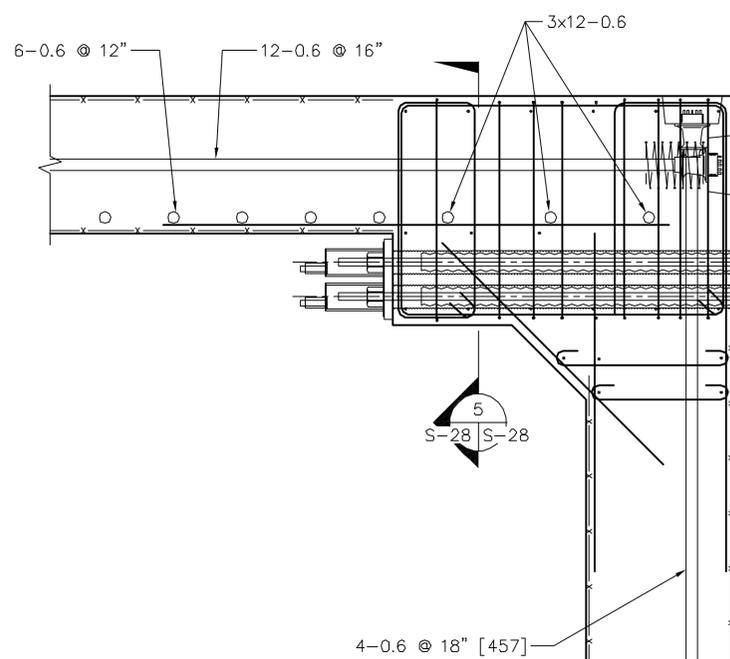
6 SECTION - INTERIOR/EXTERIOR PANEL
 S-26 | S-26 SCALE: 1/4"=1'-0"

DEPARTMENT OF THE NAVY NFESC NAVAL FACILITIES ENGINEERING SERVICES CENTER		A/E MHZ AMH		ETD DISION DRAWN REVIEW PROJECT MANAGER FIRE PROTECTION QUALITY CONTROL BRANCH MANAGER DESIGN DIRECTOR	
MODULAR HYBRID PIER FLOATING PIER PANEL - ELEVATION, PLAN AND SECTIONS		APPROVED APPROVED APPROVED APPROVED		DATE DATE DATE DATE	
CODE ID. NO. 80091 SCALE: AS NOTED		ETD NO. STA. PROJ. NO. SPEC. NO. CONSTR. CONTR. NO.		SYM DESCRIPTION REVISIONS	
SHEET OF S-26		NAVFAC DRAWING NO.		SEAL FOR ETD FOR COMMANDER NAVFAC	

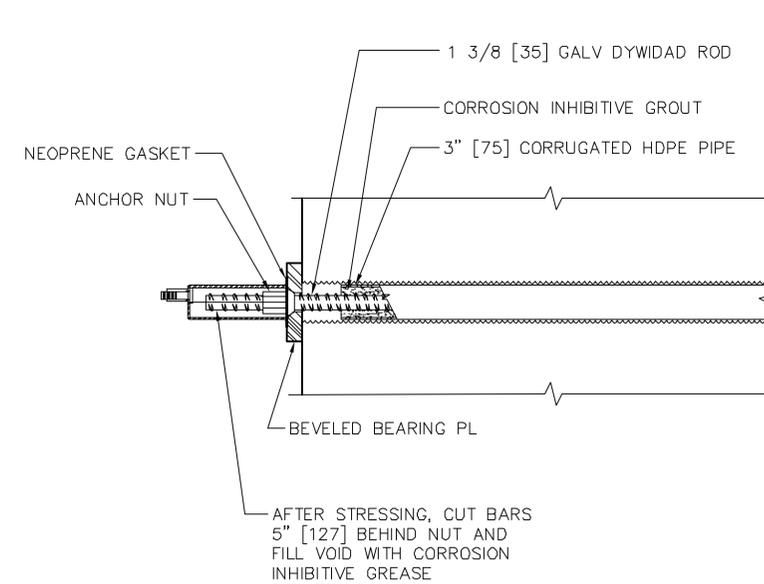


JOINING ROD SEE S-28/S-28

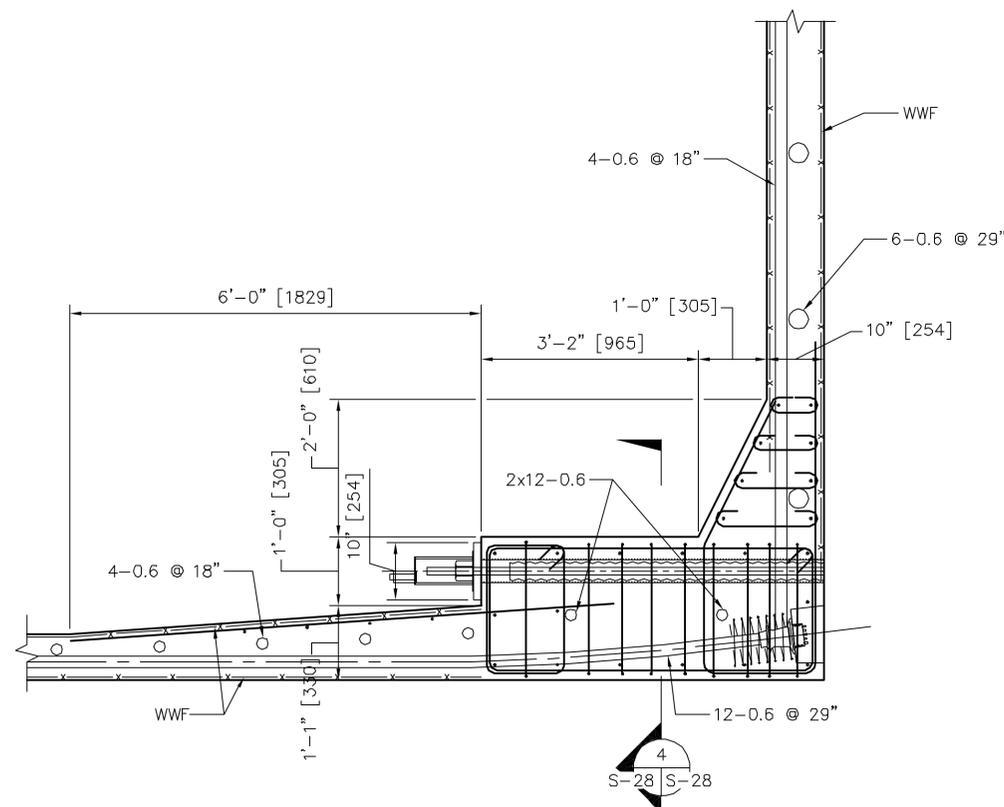
1 SECTION - END PANEL
S-21/S-28 SCALE: 3/8"=1'-0"



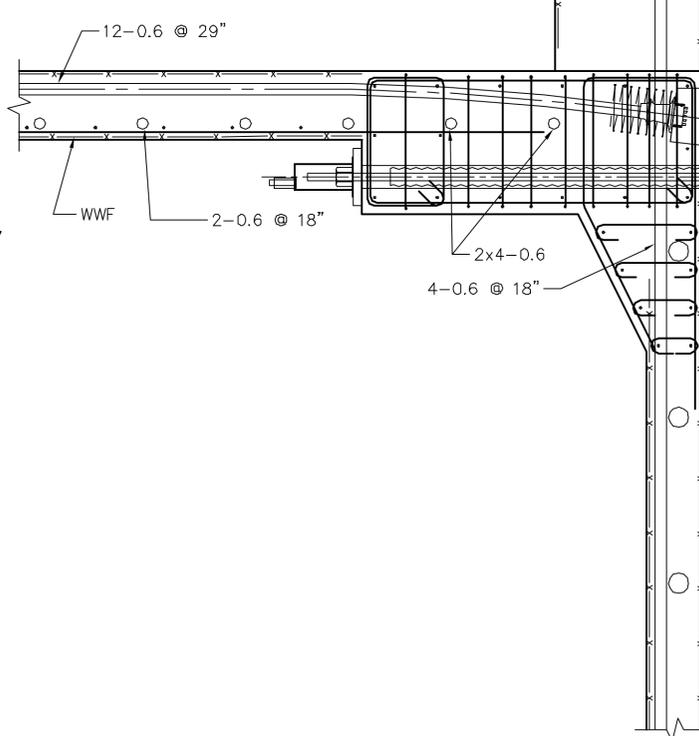
2 SECTION - END PANEL
S-21/S-28 SCALE: 3/8"=1'-0"



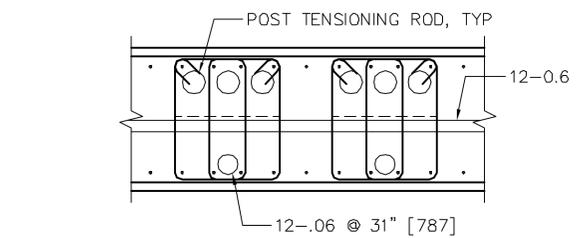
3 DETAIL - JOINING ROD
S-28/S-28 SCALE: 3/8"=1'-0"



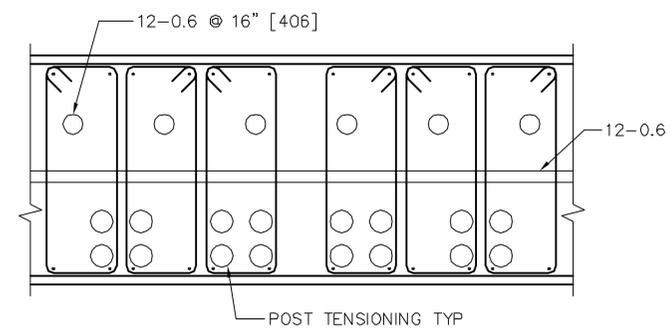
4 SECTION - END PANEL
S-21/S-28 SCALE: 3/8"=1'-0"



5 SECTION - END PANEL
S-21/S-28 SCALE: 3/8"=1'-0"



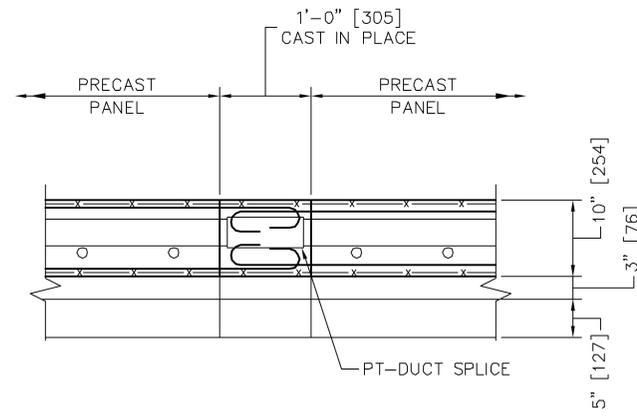
4 SECTION - END PANEL
S-28/S-28 SCALE: 3/8"=1'-0"



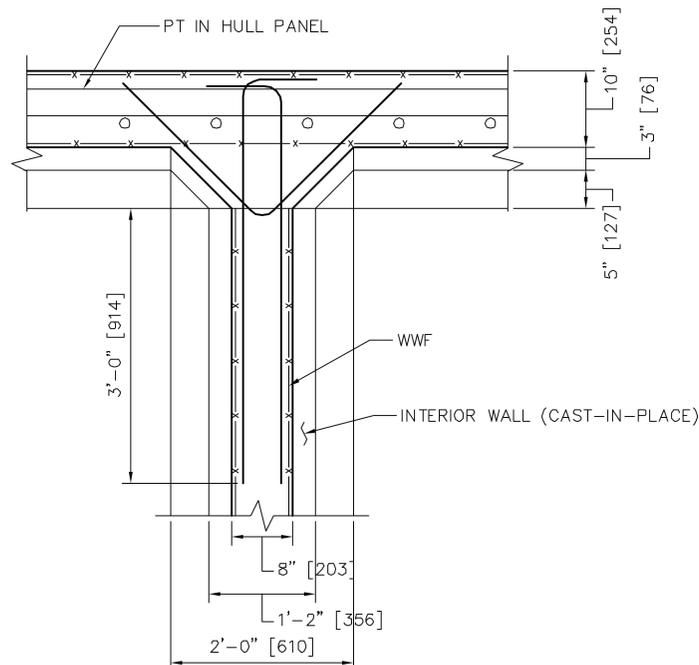
5 SECTION
S-28/S-28 SCALE: 3/8"=1'-0"



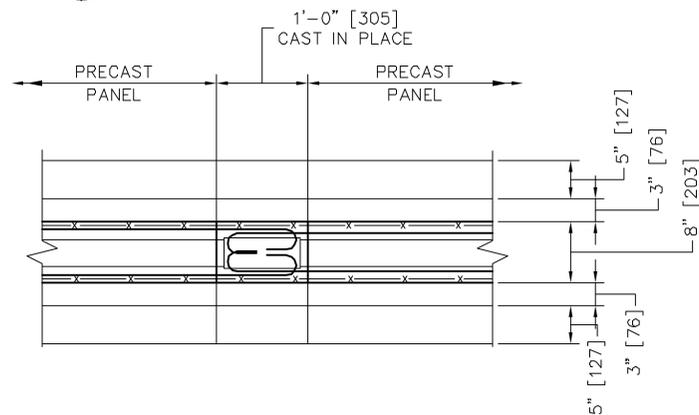
A/E MHZ AMH		DESIGN DRAWN REVIEW CHECK APPROV. ENR		PROJECT NUMBER FIRE PROTECTION QUALITY CONTROL BRANCH MANAGER DESIGN DIRECTOR		REVISIONS DATE APPROVED	
BERGER/ABAM 1000 SOUTH KENNEDY BOULEVARD FORT LAUDERDALE, FLORIDA 33304-3995 TEL: (954) 343-2300 FAX: (954) 343-2350		APPROVED DATE		ACTIVITY - SATISFACTORY TO APPROVED DATE		SEAL FOR ETD FOR COMMANDER NAVFAC	
DEPARTMENT OF THE NAVY NAVFACILITIES ENGINEERING SERVICES CENTER NFESC		MODULAR HYBRID PIER FLOATING PIER END PANEL - SECTIONS		499037		A B C D	
CODE ID. NO. 80091 SCALE: AS NOTED		ETD NO. STA. PROJ. NO. SPEC. NO. CONSTR. CONTR. NO. NAVFAC DRAWING NO.		SHEET OF S-28		8 7 6 5 4 3 2 1	



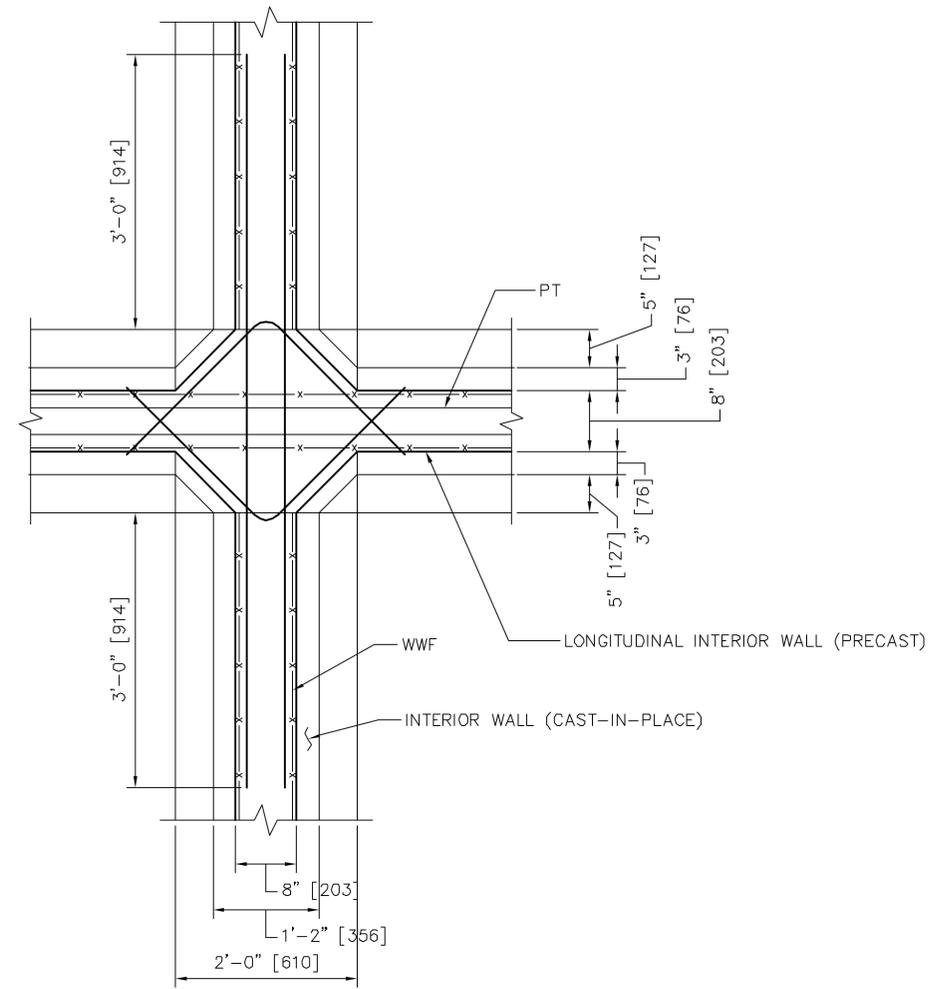
1 HULL PANEL JOINT
S-20/S-29 SCALE: 1/2"=1'-0"



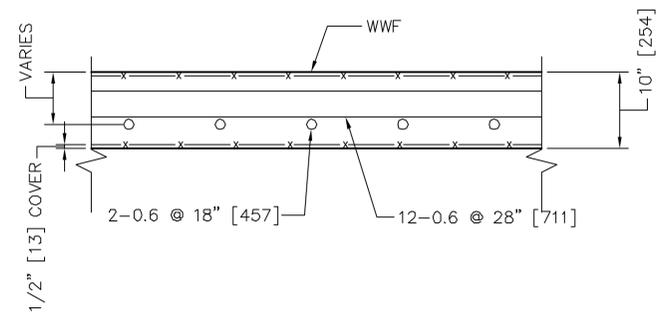
2 HULL PANEL TO INTERIOR WALL JOINT
S-20/S-29 SCALE: 1/2"=1'-0"



3 LONGIT. INTERIOR WALL PANEL JOINT
S-20/S-29 SCALE: 1/2"=1'-0"



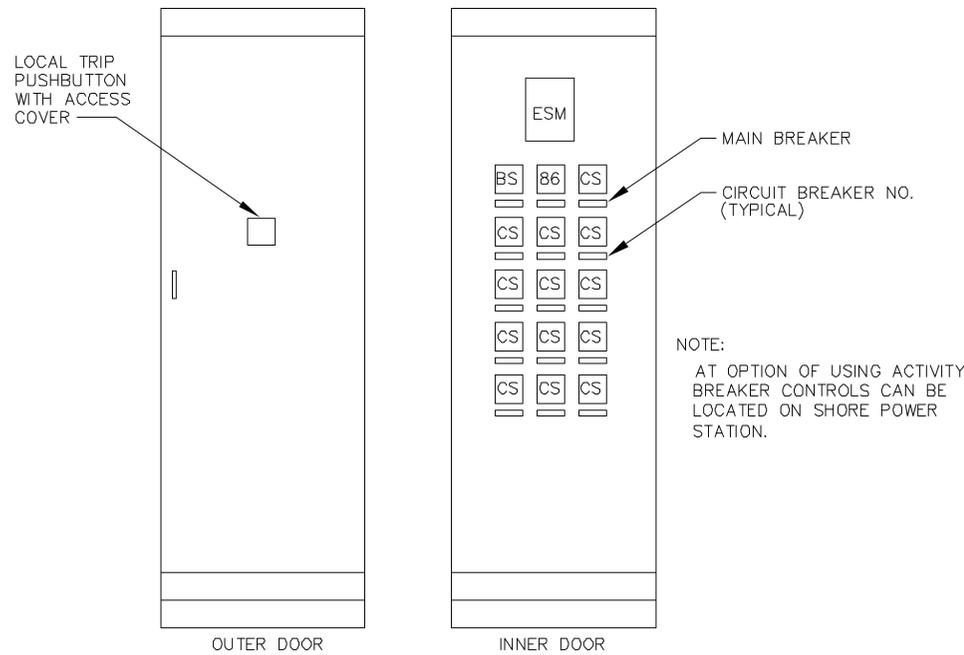
4 INTERIOR FOUR WALL JOINT
S-20/S-29 SCALE: 1/2"=1'-0"



5 SECTION - UTILITY DECK
S-27/S-29 SCALE: 1/2"=1'-0"

1-1/2"=1'-0" scale 8 0 8 16 inches

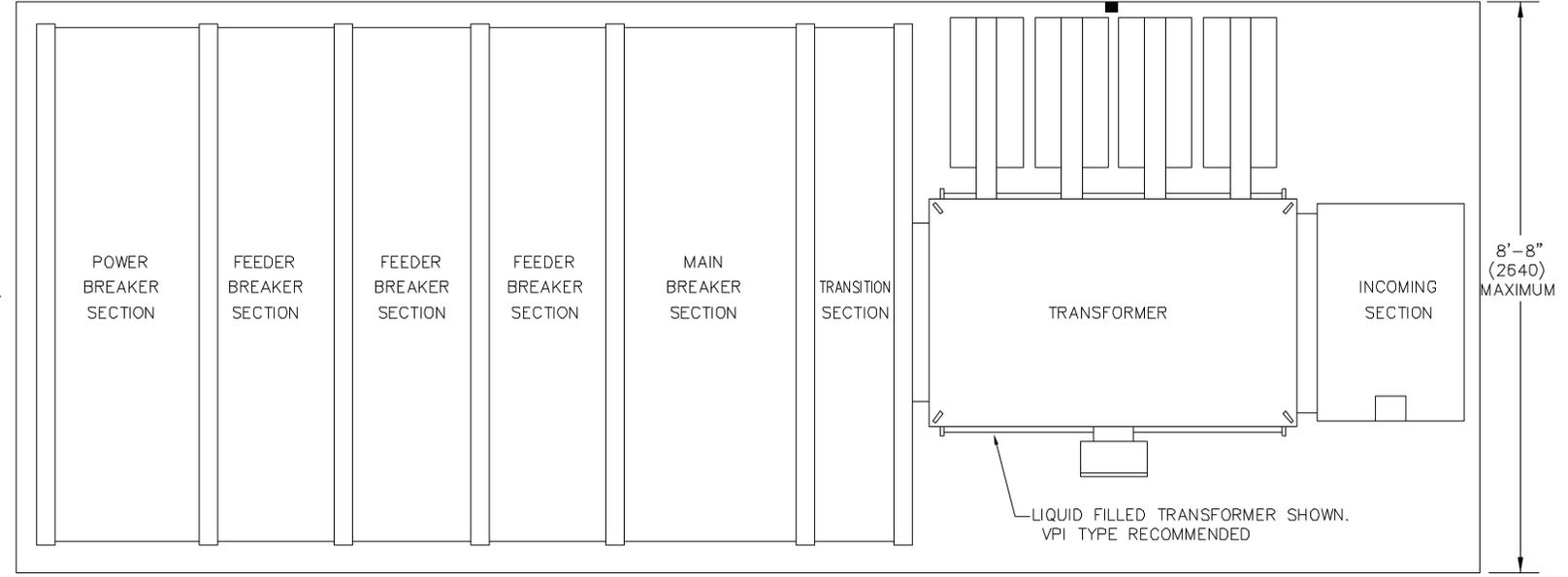
A/E MHZ AMH		DISIGN DRAWN REVIEW CHECK APPROV. ENR		PROJECT MANAGER FIRE PROTECTION QUALITY CONTROL BRANCH MANAGER DESIGN DIRECTOR		REVISIONS DATE SYM DESCRIPTION	
BERGER/ABAM 1000 K STREET, S.W. WASHINGTON, D.C. 20004 (202) 331-2300 FAX: (202) 431-2320		APPROVED DATE		APPROVED DATE		APPROVED DATE	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SERVICES CENTER NFESC		MODULAR HYBRID PIER FLOATING PIER WALL, PANEL, JOINTS AND SECTION		499037		SEAL	
CODE ID. NO. 80091 SCALE: AS NOTED		STA. PROJ. NO.		SPEC. NO.		CONSTR. CONTR. NO.	
SHEET OF S-29		NAVFAC DRAWING NO.		SHEET OF		SHEET OF	



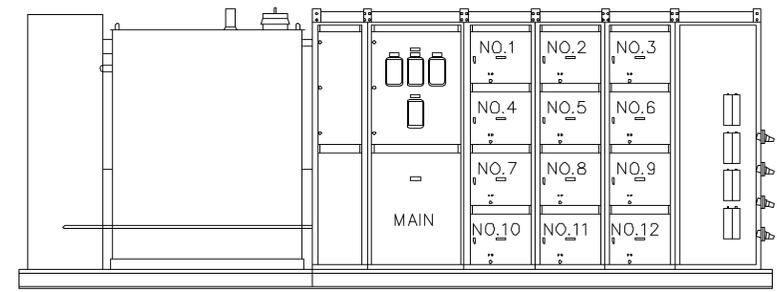
CONTROL PANEL ELEVATION

ARRANGEMENT OF CONTROL SWITCHES SHALL BE THE SAME AS THE BREAKERS

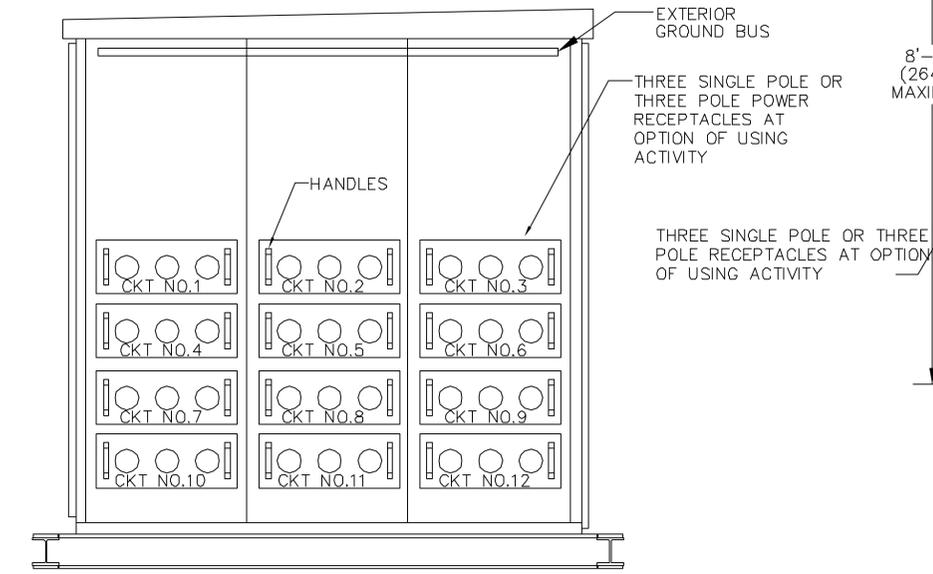
NOTE:
AT OPTION OF USING ACTIVITY BREAKER CONTROLS CAN BE LOCATED ON SHORE POWER STATION.



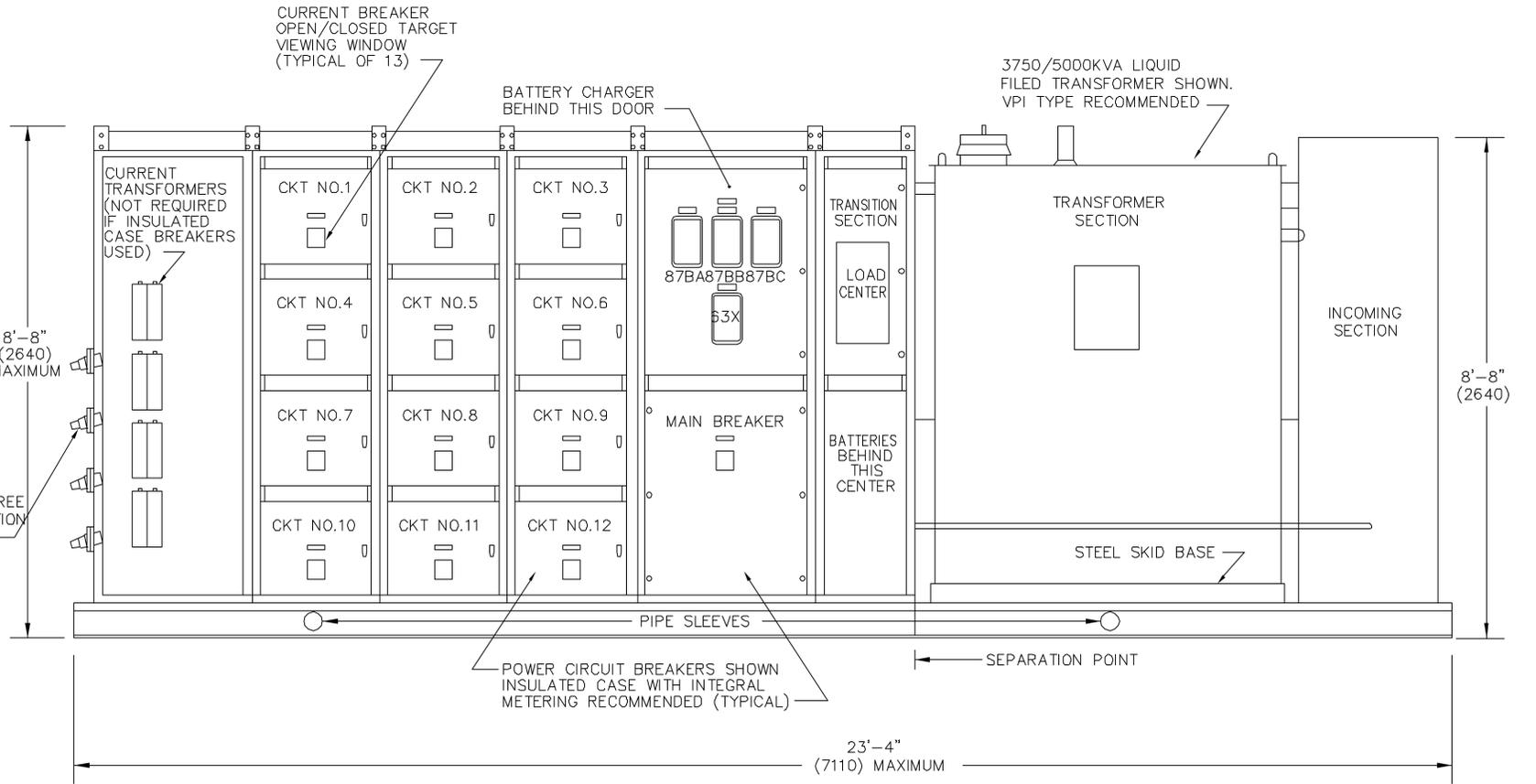
SECONDARY UNIT SUBSTATION PLAN



REVERSE SECONDARY UNIT SUBSTATION ELEVATION



POWER OUTLET SECTION ELEVATION

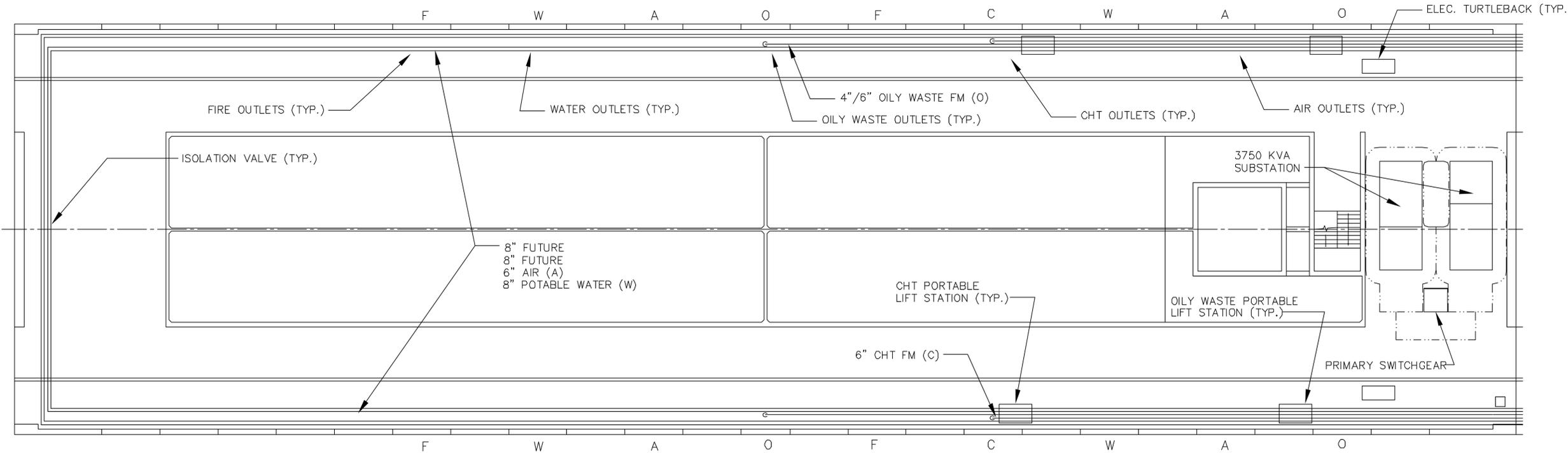


UNIT SUBSTATION FRONT ELEVATION

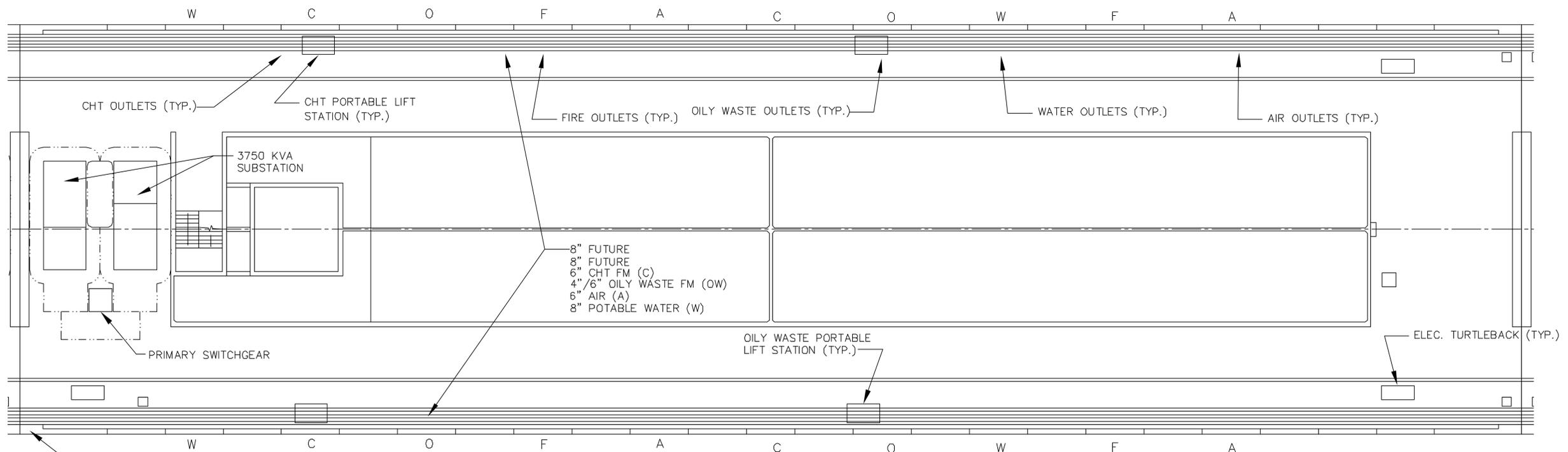
ELEVATION IS SHOWN FOR TYPICAL UNIT. SEE "REVERSE SECONDARY UNIT SUBSTATION ELEVATION" THIS SHEET FOR VIEW OF THE OTHER UNIT.

- NOTES:
1. ACCESS DOORS NOT SHOWN.
2. BRACKETED DIMENSIONS ARE IN MILLIMETERS

REVISIONS NO. DATE DESCRIPTION _____ _____ _____	
APPROVED _____ DESIGN DIRECTOR	APPROVED _____ QUALITY CONTROL
PROJECT NUMBER _____	BRANCH NUMBER _____
VPI DESIGN LEW DKN REVISION _____	EPI DESIGN _____
BERGER/ABAM ENGINEERS INC. 1000 AVENUE SOUTH SUITE 100 FORT WORTH, TEXAS 76104-2550 (817) 335-3335 FAX (817) 335-2250	
ACTIVITY - SATISFACTORY TO APPROVED _____	FOR EPI FOR COMMANDER NAIFAC _____
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAFESC	NAVAL STATION MODULAR HYBRID PIER FLOATING PIER SECONDARY UNIT SUBSTATION PLAN & ELEVATION
SCALE: NO. 0001 NONE	SHEET NO. 01 OF 01
CONSTRUCTION CONTROL NO. M7408-98-C-7529	NAVFAC DRAWING NO.
SHEET NO. 01 OF 01	E-3

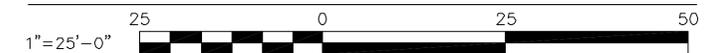


1 PLAN - SRVICE DECK - MODULE 1
 M-1/M-1 SCALE: 1"=25'-0"



2 PLAN - SRVICE DECK - MODULE 2
 M-1/M-1 SCALE: 1"=25'-0"

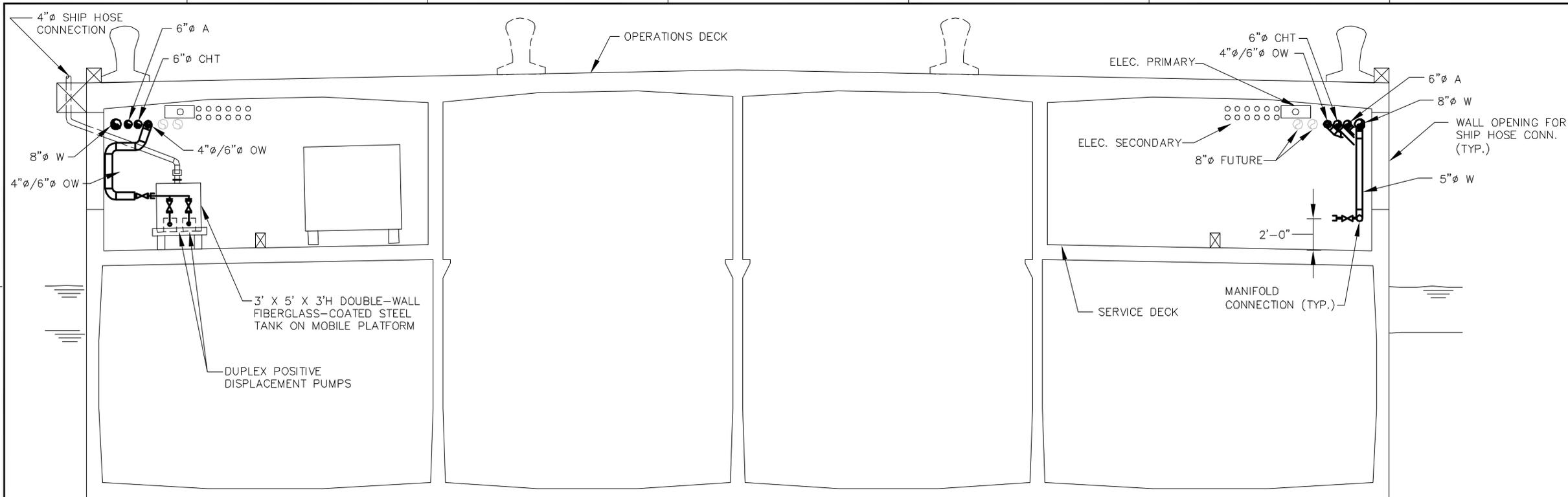
GRAPHIC SCALE



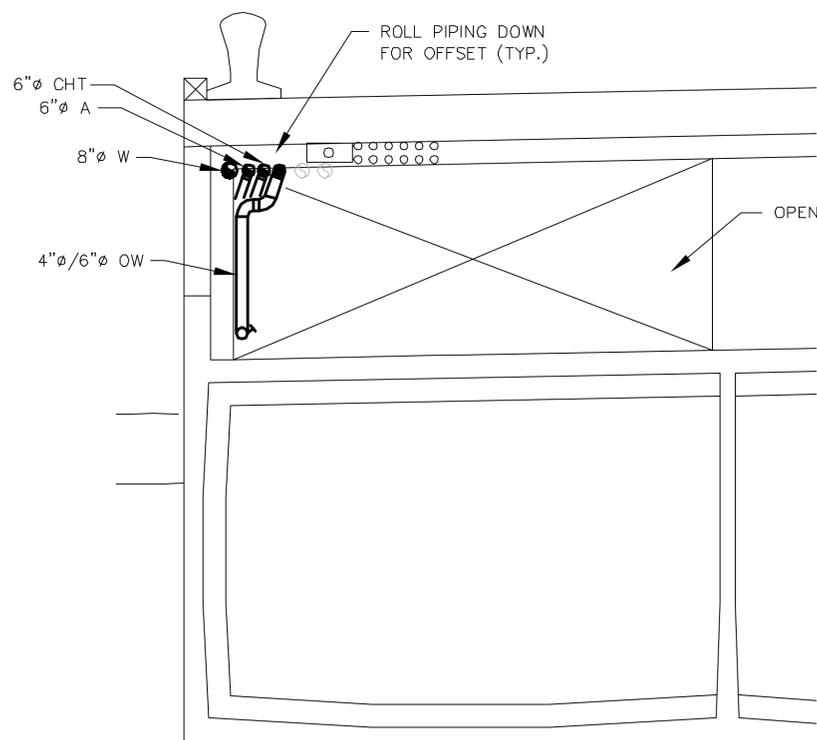
NOTE:
 SEE 2 FOR REMOVABLE FRP CURB LAYOUT
 M-1/S-4

8 7 6 5 4 3 2 1

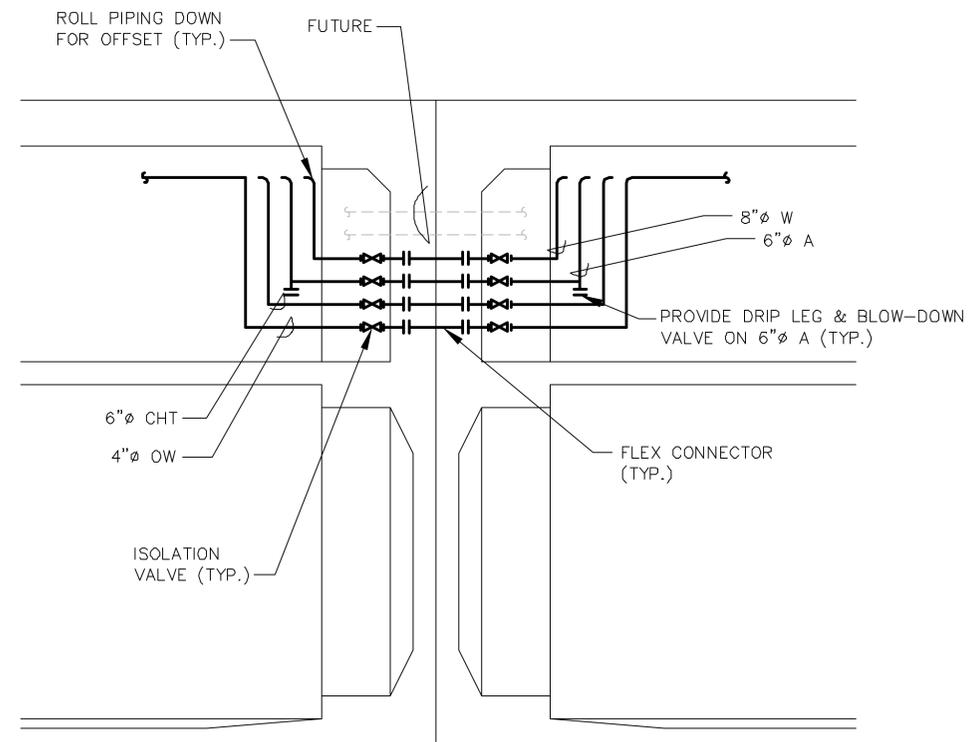
REVISIONS DATE APPROVED DESCRIPTION	
PROJECT MANAGER FIRE PROTECTION QUALITY CONTROL SEARCH MANAGER DESIGN DIRECTOR	EFD DESIGN DRAWN REVIEW CHECK ASH/EBG
BERGER/ABAM ENGINEERS FEDERAL HWY WASHINGTON WOOD-8385 (202)431-2300 FAX(202)431-2550	
APPROVED ACTIVITY - SATISFACTORY TO APPROVED FOR COMMANDER NAIFAC	DATE DATE
NAVAL FACILITIES ENGINEERING COMMAND NFESC NAVAL STATION MODULAR HYBRID PIER FLOATING PIER ELECTRICAL - MODULE 1 & 2	
CODE ID. NO. B0091 SCALE: AS NOTED EFD NO. STA. PROJ. NO. SPEC. NO. CONSTR. CONTR. NO. N47408-88-C-7529 NAIFAC DRAWING NO.	SIZE D SHEET OF M-1



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

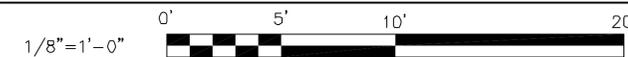


2 SECTION - END
SCALE: 1/8" = 1'-0"



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

GRAPHIC SCALE



8

7

6

5

4

3

2

1

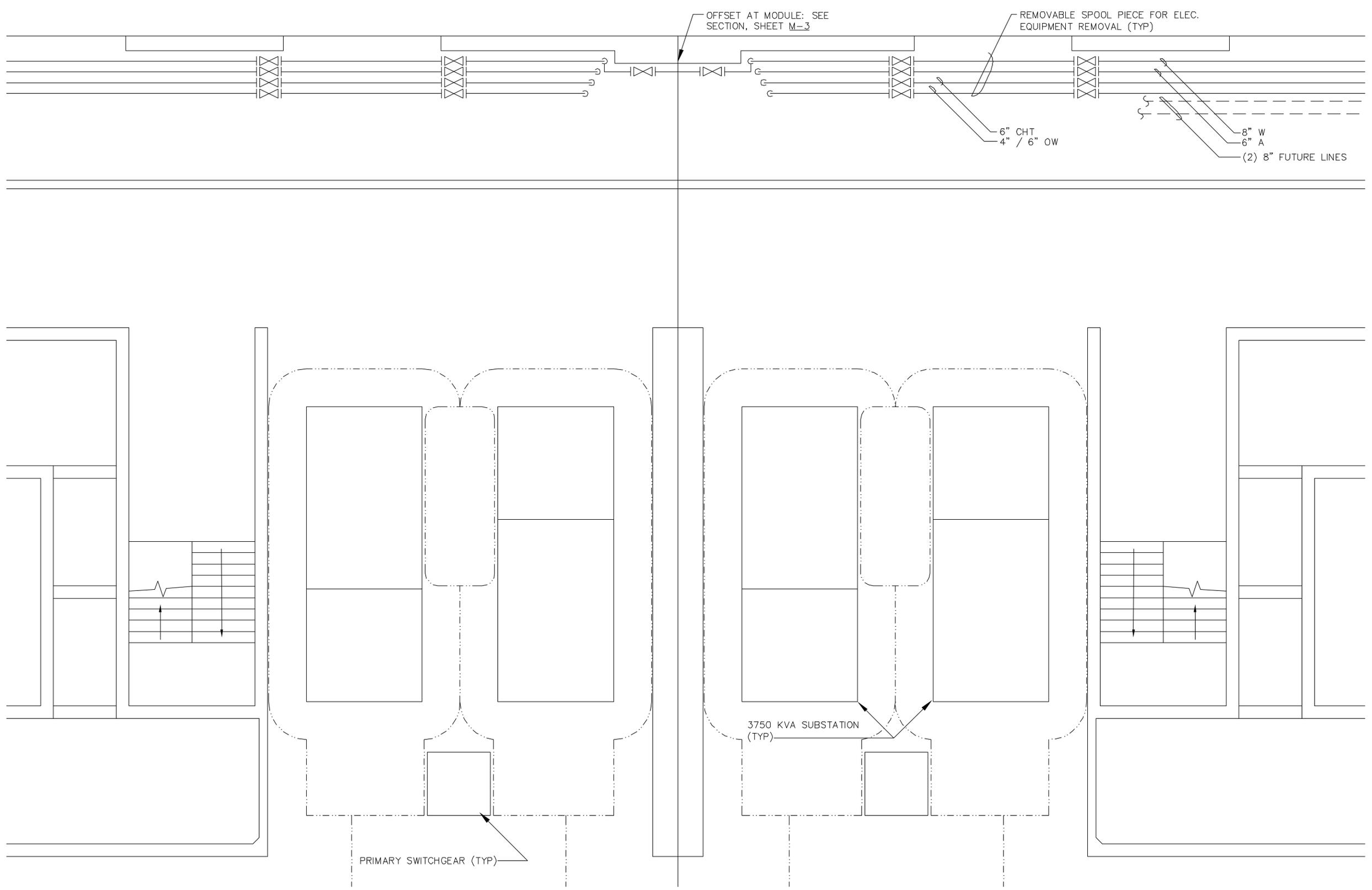
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAFESC NAVAL STATION MODULAR HYBRID PIER FLOATING PIER SECTIONS		REVISIONS NO. DESCRIPTION DATE APPROVED 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		SEAL FOR EIT FOR COMMANDER IN CHIEF AUGUST 37	
NAVY ENGINEERING CENTER FEDERAL RD, WASHINGTON, DC 20340-3300 (202) 454-2300 FAX (202) 454-2250 BERGER/ARAM ENGINEERING APPROVED ACTIVITY - SATISFACTORY TO APPROVED FOR EIT FOR COMMANDER IN CHIEF		PROJECT MANAGER EIT POSITION QUALITY CONTROL BRANCH NUMBER DESIGN DIRECTOR			
CODE ID. NO. BOBBI SIZE D SCALE EIT NO. STA. PROJ. NO. SPEC. NO. CONSTR. CONTR. NO. N47400-00-C-7520 NAVFAC DRAWING NO.		SHEET OF M-3			

D

C

B

A



3
 ENLARGED PLAN - SERVICE DECK
 SCALE: 1/8"=1'-0"



DEPARTMENT OF THE NAVY NFESC NAVAL FACILITIES ENGINEERING COMMAND		FEDERAL REGISTER FEDERAL AVIATION ADMINISTRATION (202) 431-2300 FAX (202) 431-2550		PROJECT MANAGER FIRE PROTECTION QUALITY CONTROL SEARCH MANAGER DESIGN DIRECTOR		APPROVED DATE APPROVED DATE	
NAVAL STATION MODULAR HYBRID PIER FLOATING MODULE PIER MECHANICAL - ENLARGED PLAN		APPROVED ACTIVITY - SATISFACTORY TO APPROVED FOR EFD FOR COMMANDER NAIFAC		REVISIONS DESCRIPTION DATE EFM		SHEET OF M-4	
CODE ID. NO. B0891 SCALE: AS NOTED EFD NO. STA. PROJ. NO. SPEC. NO. CONSTR. CONTR. NO. NAIFAC DRAWING NO.	SIZE D	484937		SEAL FOR EFD FOR COMMANDER NAIFAC		AVE MRK DESIGN DRAWN REVIEW CHECK PROJ. MGR. FIRE PROTECTION QUALITY CONTROL SEARCH MANAGER DESIGN DIRECTOR	

8 7 6 5 4 3 2 1

D
C
B
A