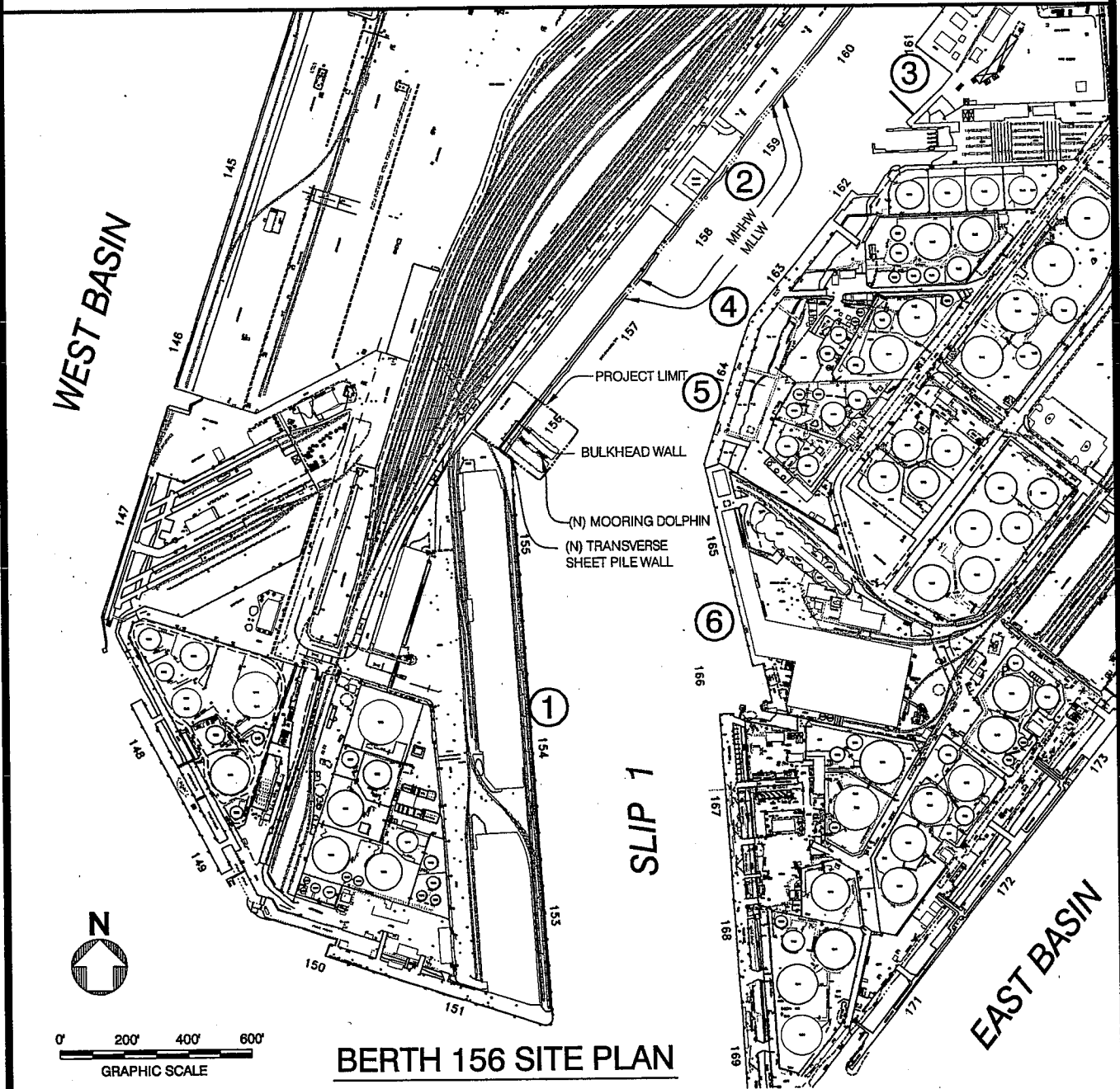
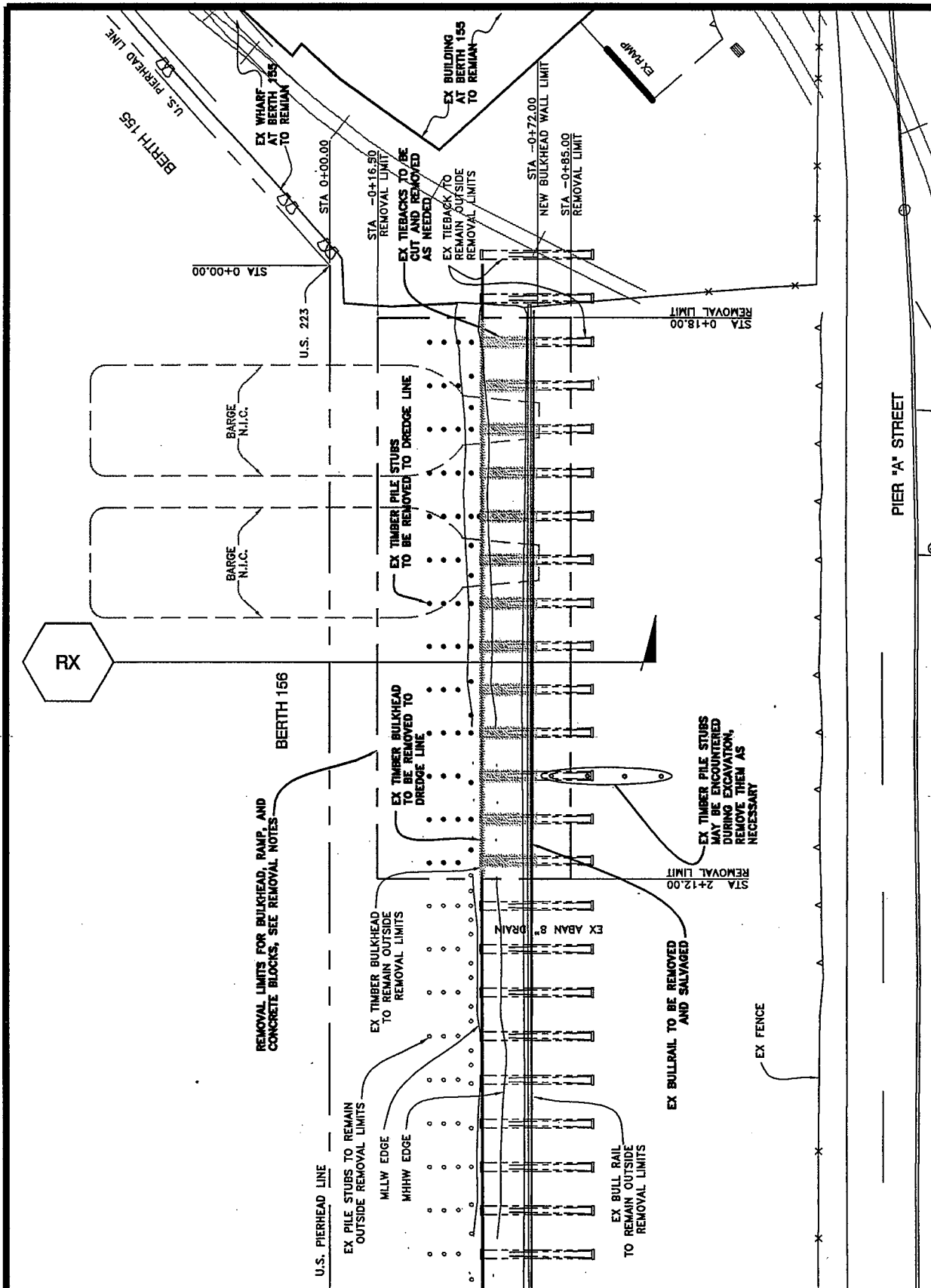


ADJACENT TENANTS

- ① B152-155: Pasha Stevedoring & Terminals L.P
- ② B156-160: Unassigned
- ③ B161: POLA Construction & Maintenance
- ④ B163-164: Shore Terminals, LLC
- ⑤ B164: Ultramar, Inc.
- ⑥ B165-166: U.S. Borax



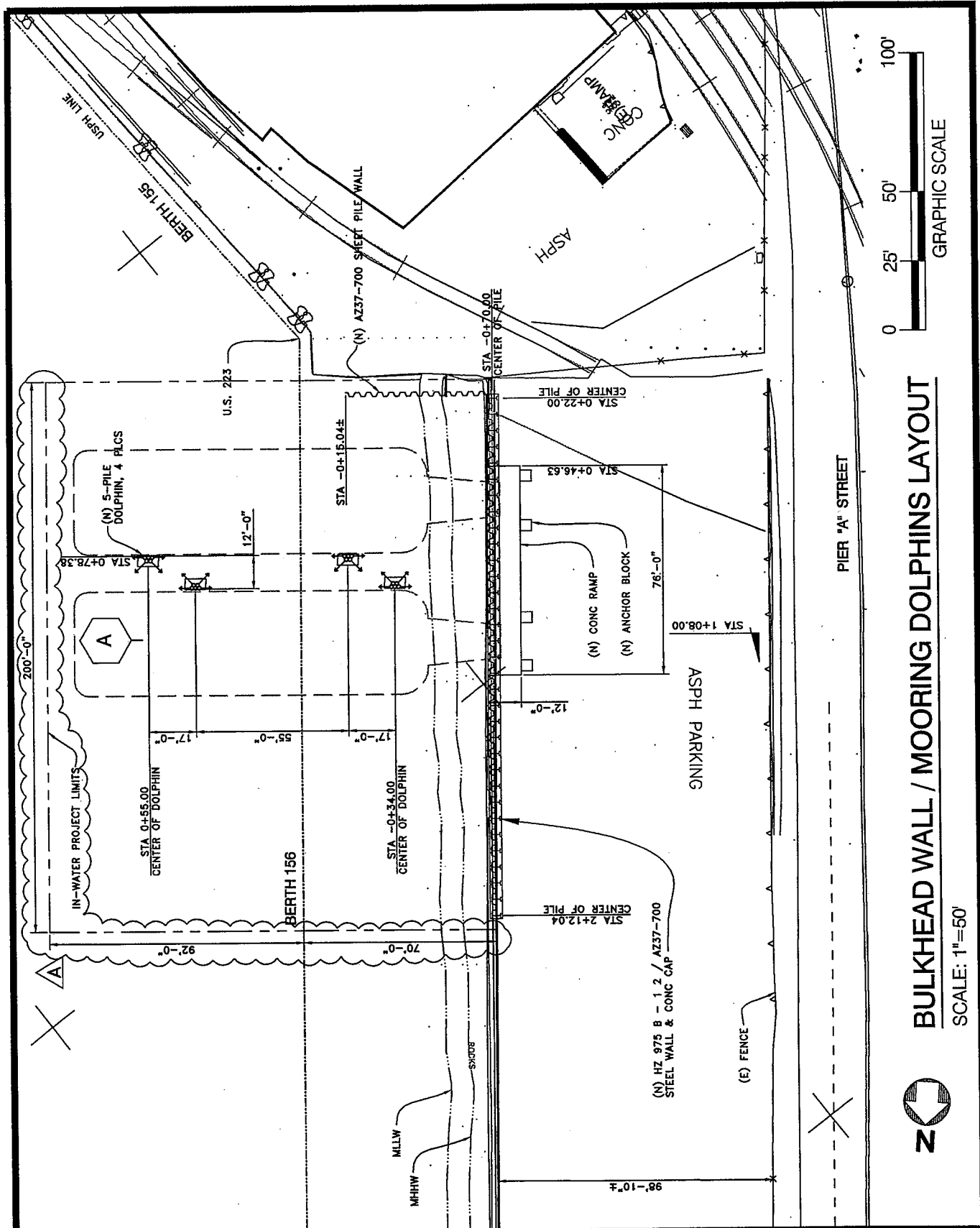
SCALE: AS SHOWN		DATE: 3/08	RECOMMENDED FOR APPROVAL		APPLICATION FOR ARMY CORPS PERMIT	
DRAWN: Z. LIU		CHIEF OF DESIGN <i>Ray Alvarado</i>		BERTH 156 BULKHEAD WALL		
CHECKED: A. LIM		ASSISTANT CHIEF HARBOR ENGINEER <i>Arturo</i>		APPROVED <i>Arturo</i> CHIEF HARBOR ENGINEER		
DESIGNED: L. BECARIA		ENGR/ARCH <i>Alvarado</i>		THE PORT OF LOS ANGELES ENGINEERING DIVISION P.O. BOX 151 SAN PEDRO, CA 90733-0151		
				DRAWING NUMBER 5-7279-2		



RP **REMOVAL PLAN**
SCALE: 1"=20'

SCALE: AS SHOWN		DATE: 7/08		RECOMMENDED FOR APPROVAL		APPLICATION FOR ARMY CORPS PERMIT BERTH 156 BULKHEAD WALL			
DRAWN: H. C.		CHECKED: A. LIM		DESIGNED: H. CISNEROS					
ENCR/ARCH				APPROVED		<i>Michael Smith</i> CHIEF HARBOR ENGINEER		THE PORT OF LOS ANGELES ENGINEERING DIVISION P.O. BOX 161 SAN PEDRO, CA 90733-0161	
								DRAWING NUMBER 5-7279-2.A	

POLAR05_VER.1_12/96



BULKHEAD WALL / MOORING DOLPHINS LAYOUT

SCALE: 1"=50'

GRAPHIC SCALE

SCALE: AS SHOWN	DATE: 3/08	RECOMMENDED FOR APPROVAL
DRAWN: Z. LIU		CHIEF OF DESIGN <i>Ray Alvarado</i>
CHECKED: A. LIM		ASSISTANT CHIEF HARBOR ENGINEER
DESIGNED: L. BECARIA		
ENGR/ARCH		

APPLICATION FOR ARMY CORPS PERMIT

BERTH 156 BULKHEAD WALL

APPROVED
[Signature]
CHIEF HARBOR ENGINEER

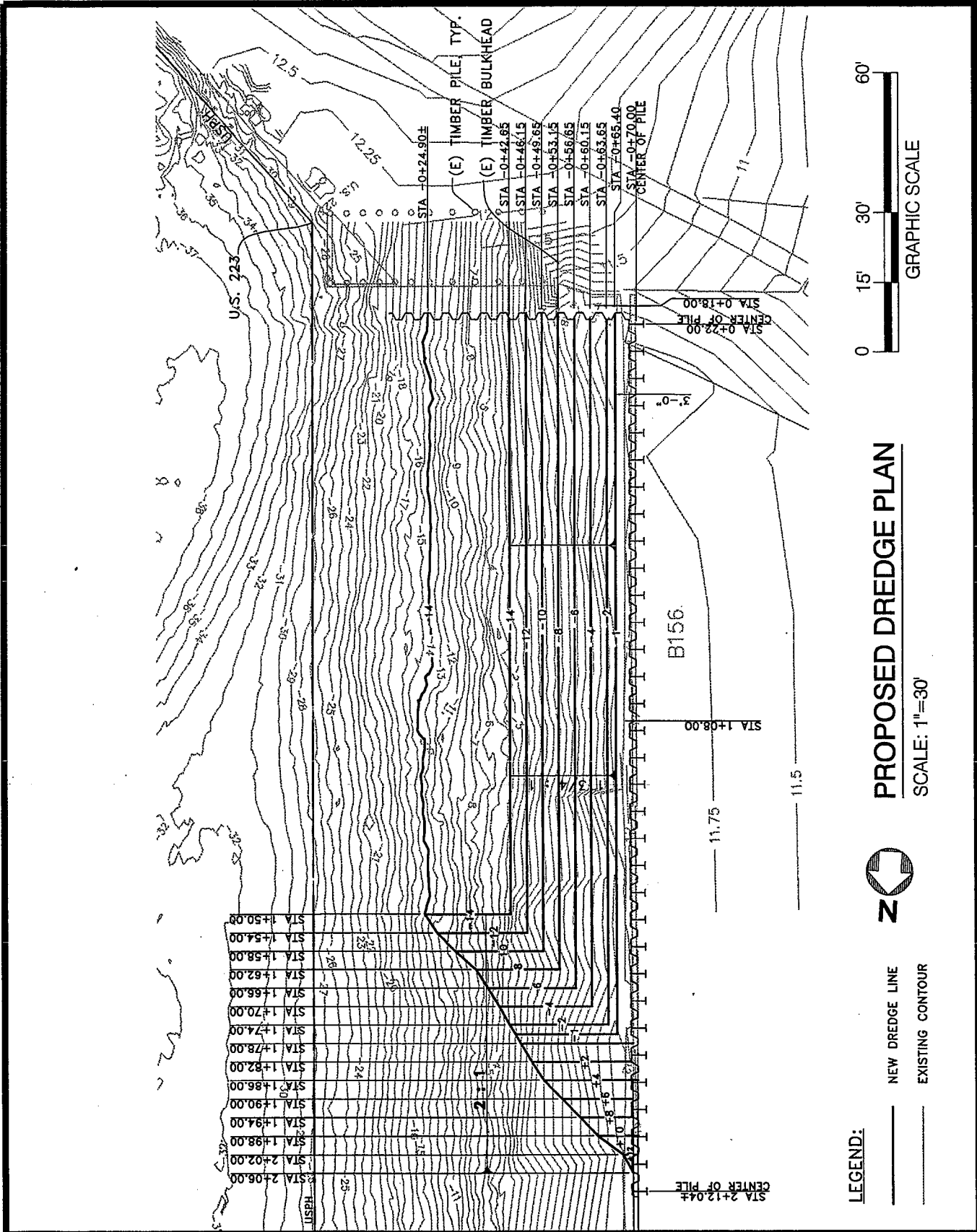


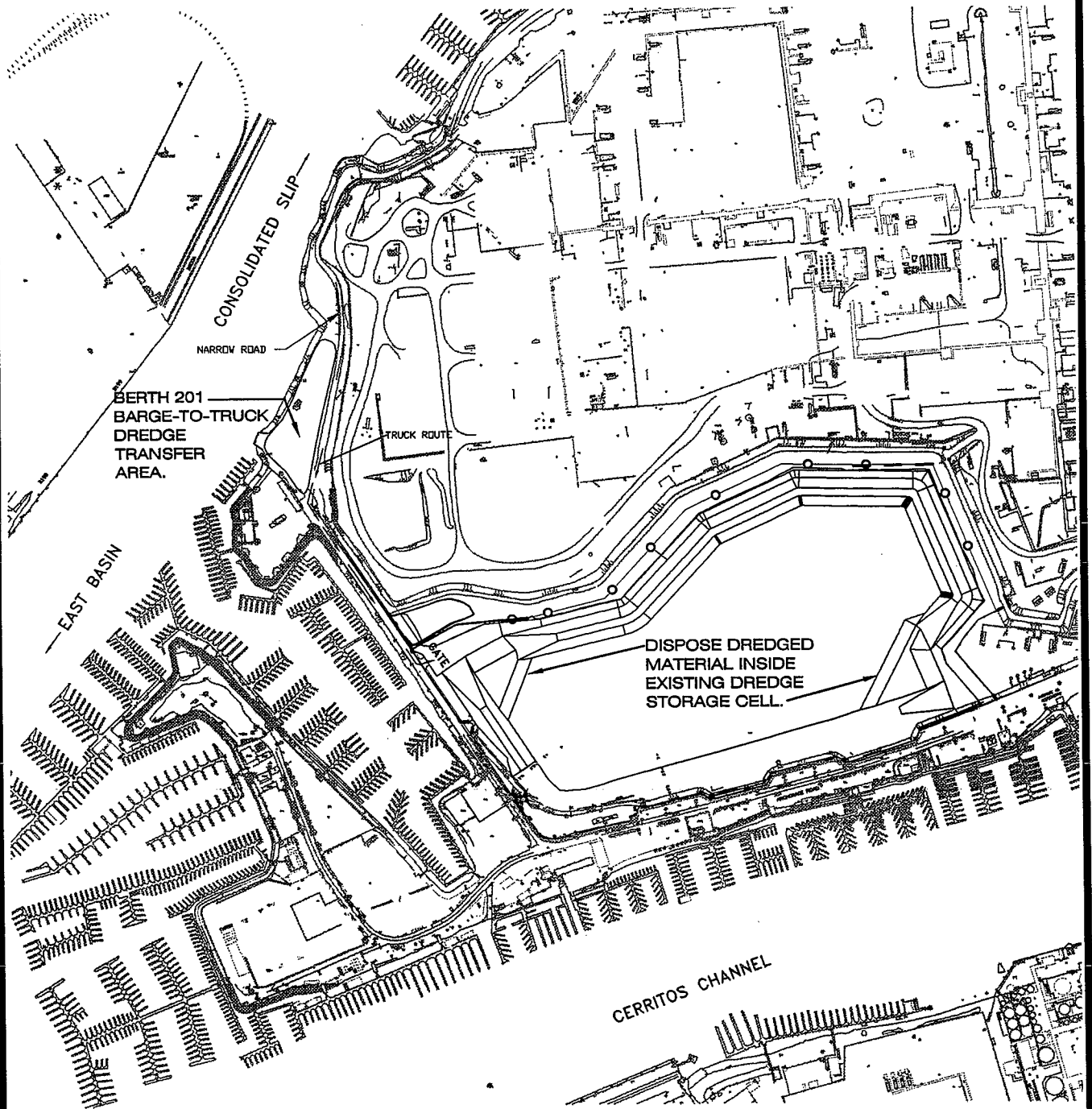
THE PORT OF LOS ANGELES
ENGINEERING DIVISION P.O. BOX 151 SAN PEDRO, CA 90732-0151

DRAWING NUMBER
5-7279-3

POLAPRO5_VER.1_12/96

SCALE: AS SHOWN		DATE: 3/08		RECOMMENDED FOR APPROVAL		APPLICATION FOR ARMY CORPS PERMIT	
DRAWN: Z. LIU		3/08		CHIEF OF DESIGN		BERTH 156 BULKHEAD WALL	
CHECKED: A. LIM				ASSISTANT CHIEF HARBOR ENGINEER			
DESIGNED: L. BECARIA				APPROVED		THE PORT OF LOS ANGELES ENGINEERING DIVISION P.O. BOX 151 SAN PEDRO, CA 90730-0151	
ENGR/ARCH				CHIEF HARBOR ENGINEER		DRAWING NUMBER 5-7279-5	





ANCHORAGE ROAD UPLAND SOIL STORAGE SITE
 SCALE: 1" = 400'-0"

POLAPROS_VER1_12/96

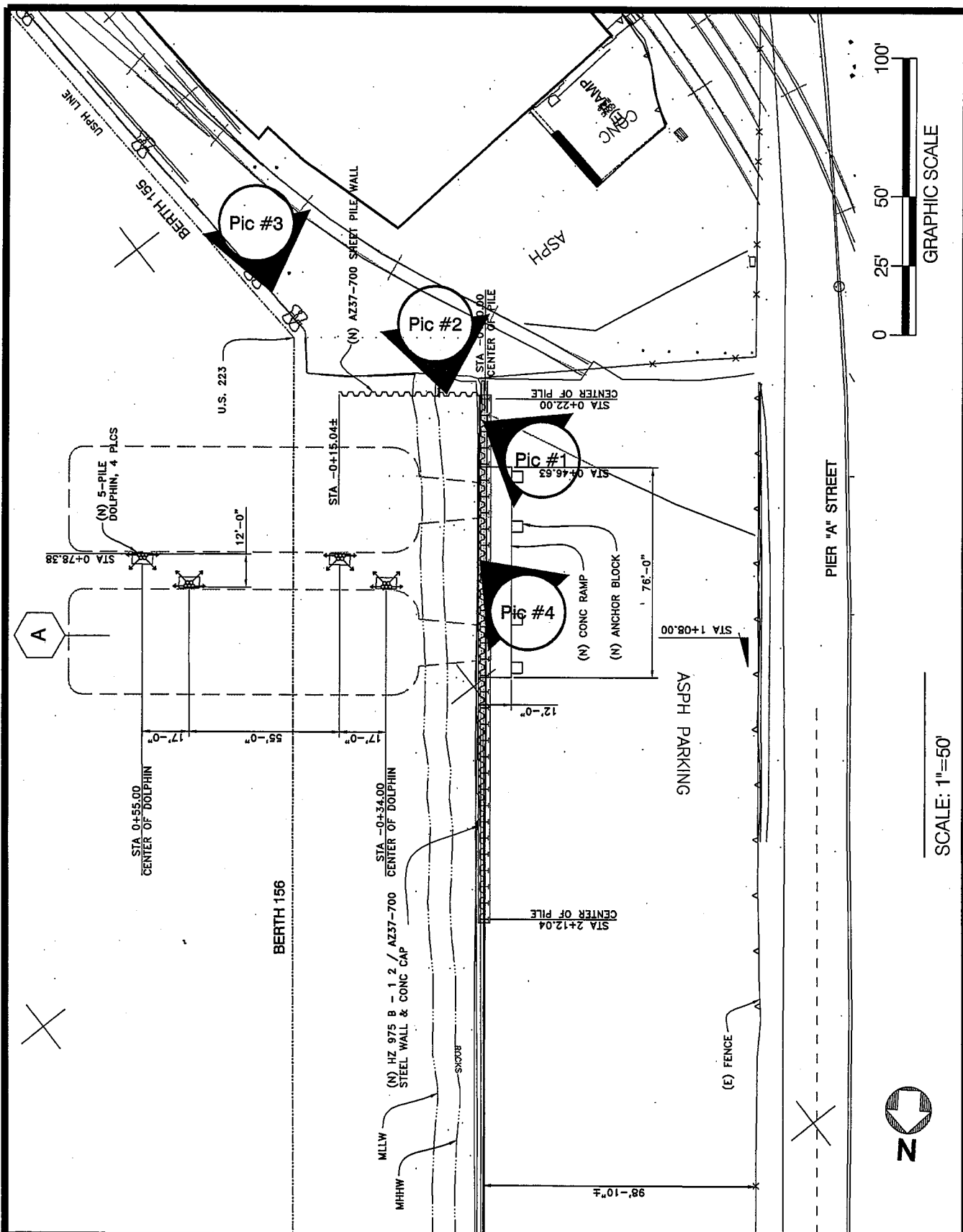
SCALE: AS-SHOWN		DATE:		RECOMMENDED FOR APPROVAL		APPLICATION FOR ARMY CORPS PERMIT			
DRAWN: H. C.		3/08		CHIEF OF DESIGN		BERTH 156 BULKHEAD WALL			
CHECKED: H. C.		3/08		<i>Ray Alvarado</i>					
DESIGNED: H. C.				ASSISTANT CHIEF HARBOR ENGINEER		APPROVED		DRAWING NUMBER	
ENGR/ARCH				<i>[Signature]</i>		<i>[Signature]</i>		5-7279-6	
				CHIEF HARBOR ENGINEER		 THE PORT OF LOS ANGELES ENGINEERING DIVISION P.O. BOX 161 SAN PEDRO, CA 90732-0161			

SCOPE OF WORK:

A

1. REMOVE THE EXISTING RIP RAP ON THE SLOPE FROM ELEVATION +12.0' TO ELEVATION -14.0'. RIP RAP SHALL BE SALVAGED AND RE-USED ON NEW SLOPE.
2. DREDGE APPROXIMATELY 2,700 CY OF DREDGE MATERIAL WHICH WILL BE DISPOSED OF AT ANCHORAGE ROAD UPLAND SOIL STORAGE SITE.
3. REMOVE AND DISPOSE APPROXIMATELY 56 TIMBER PILE STUBS LOCATED WITHIN PROPOSED DREDGE AREA. THE STUBS SHALL BE REMOVED DOWN TO THE DREDGE LINE.
4. REMOVE AND DISPOSE APPROXIMATELY 190 LINEAL FEET OF EXISTING TIMBER BULKHEAD LOCATED WITHIN THE PROPOSED DREDGE AREA. THE TIMBER BULKHEAD SHALL BE REMOVED DOWN TO THE DREDGE LINE.
5. CONSTRUCT APPROXIMATELY 190 FT OF BULKHEAD WALL. THE WALL WILL CONSIST OF STEEL HZ KING PILES AND AZ SHEET PILES.
6. CONSTRUCT APPROXIMATELY 3.5'x.5'x190' REINFORCED CONCRETE PILE CAP ON TOP OF THE BULKHEAD WALL.
7. CONSTRUCT APPROXIMATELY 55' TRANSVERSE SHEET WALL. THE WALL WILL CONSIST OF AZ SHEET PILES WHICH WILL PROTECT THE SIDE SLOPE OF THE EXISTING TIMBER WHARF AT B155.
8. CONSTRUCT APPROXIMATELY 76'x7.5'x6" THICK REINFORCED CONCRETE RAMP AND 4-4'x4' ANCHOR BLOCKS LANDSIDE OF THE BULKHEAD WALL.
9. PLACE APPROXIMATELY 270 CY OF SALVAGED RIP RAP ON NEW SLOPE.
10. CONSTRUCT 4 MOORING DOLPHINS. EACH DOLPHIN WILL CONSIST OF A GROUP OF 5 CONCRETE PILES CONNECTED WITH A CONCRETE CAP.
11. GRADE AND PAVE THE AREA ADJACENT TO THE NEW RAMP.
12. THE EXISTING SLOPE, WHARF, AND SHED AT BERTH 155 SHALL REMAIN.

SCALE: AS SHOWN	DATE: 3/08	RECOMMENDED FOR APPROVAL <i>Ray Alvarado</i> CHIEF OF DESIGN	APPLICATION FOR ARMY CORPS PERMIT	
DRAWN: H. C.	CHECKED: A. LIM	DESIGNED: L. BECARIA	BERTH 156 BULKHEAD WALL	
ENGR/ARCH		ASSISTANT CHIEF HARBOR ENGINEER	APPROVED <i>Anthony G. Smith</i> CHIEF HARBOR ENGINEER	 THE PORT OF LOS ANGELES ENGINEERING DIVISION P.O. BOX 151 SAN PEDRO, CA 90733-0151
			DRAWING NUMBER 5-7279-7	

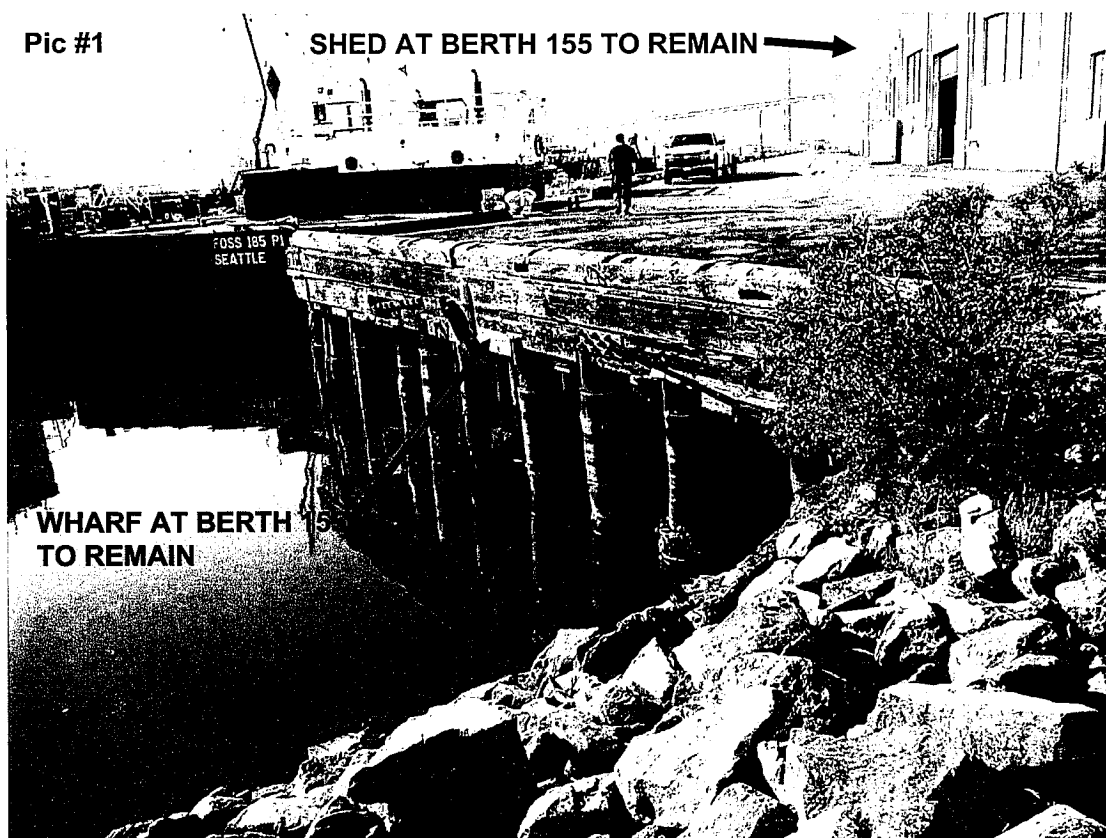


SCALE: 1"=50'

SCALE: AS SHOWN	DATE:	RECOMMENDED FOR APPROVAL	PICTURE KEY - BERTH 156 BULKHEAD WALL	
DRAWN:		CHIEF OF DESIGN		
CHECKED:				
DESIGNED:				
ENGR/ARCH	ASSISTANT CHIEF HARBOR ENGINEER	APPROVED	 THE PORT OF LOS ANGELES ENGINEERING DIVISION P.O. BOX 161 SAN PEDRO, CA 90733-0161	DRAWING NUMBER
		CHIEF HARBOR ENGINEER		

POLAPRO5_VER.1_12/96

Pic #1



Pic #2

