

**SECTION A-A**

**SECTION B-B**

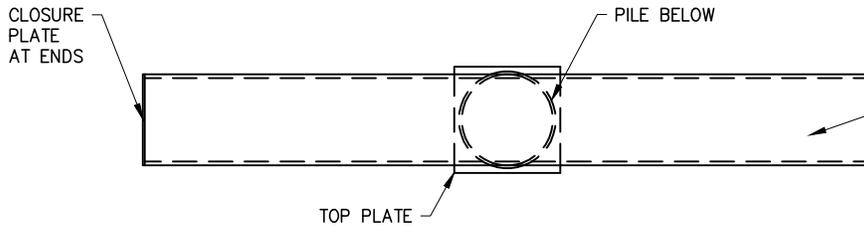
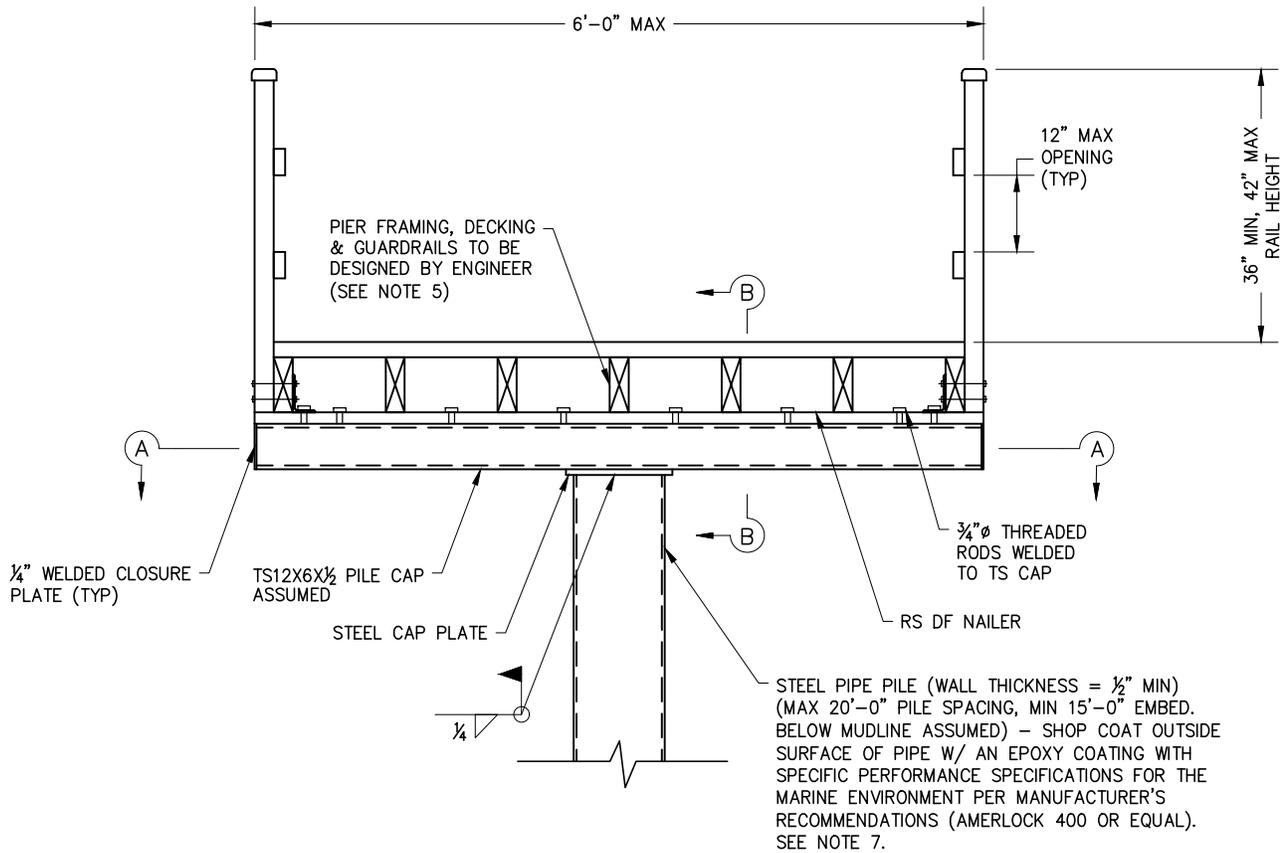
**NOTES:**

1. CONCRETE SHALL HAVE A MINIMUM 28-DAY STRENGTH  $f'_c = 6,000$  PSI. PRE-STRESSING STRANDS SHALL HAVE A MINIMUM  $f_{pu} = 270$  KSI. SEE HARBOR DESIGN CRITERIA FOR ADDITIONAL CONCRETE REQUIREMENTS.
2. ALL TIMBER SHALL BE TREATED PER ACCEPTED STATE OF CALIFORNIA REQUIREMENTS.
3. BRACKETS AND FASTENERS FOR TIMBER FRAMING SHALL BE HOTDIP GALVANIZED, EPOXY-COATED OR STAINLESS STEEL. CONNECTORS TO BE  $\frac{1}{4}$ " MIN THICKNESS, UNLESS OTHERWISE NOTED.
4. WALKING SURFACES SHALL BE SKID RESISTANT.
5. ALL TIMBER PLATFORM FRAMING AND RAILINGS SHALL BE DESIGNED BY A LICENSED CIVIL OR STRUCTURAL ENGINEER REGISTERED IN CALIFORNIA AND ARE NOT DETAILED IN THIS STANDARD.
6. TIMBER STRINGER SPLICES ARE NOT PERMITTED BETWEEN PILES.
7. OPTIONAL CAST-IN-PLACE CONSTRUCTION IS ACCEPTABLE. IF SO, LEVELING GROUT AND DRYPACK OR NON-SHRINK GROUT ILLUSTRATION WOULD NOT BE REQUIRED.
8. A LICENSED GEOTECHNICAL ENGINEER REGISTERED IN CALIFORNIA SHALL VERIFY PILE SIZE AND TYPE, AS WELL AS EMBEDMENT. GEOTECHNICAL ENGINEER SHALL COORDINATE THE DESIGN WITH INPUT FROM A LICENSED CIVIL OR STRUCTURAL ENGINEER REGISTERED IN CALIFORNIA.

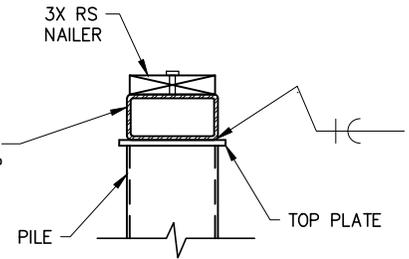
APP. <i>James M. Hinkle</i>	51568	11/24/2020			
CITY ENGINEER	RCE	DATE	NO.	DATE	DESCRIPTION OF REVISIONS

**CITY OF NEWPORT BEACH DEPARTMENT OF PUBLIC WORKS**

DRAWN: P. KHARAZMI	<h1>TYPICAL PIER SECTION</h1>	STANDARD DRAWING NO.
DATE: 11/3/2020		<h2>610</h2>
		SHEET 1 OF 2



**SECTION A-A**



**SECTION B-B**

**NOTES:**

1. ALL STEEL COMPONENTS SHALL BE MINIMUM ASTM A36 (MIN F<sub>y</sub> = 36 KSI). ALL STEEL PIPE PILES SHALL BE ASTM A53, GR B MATERIAL (MIN F<sub>y</sub> = 35 KSI).
2. ALL TIMBER SHALL BE TREATED PER ACCEPTED STATE OF CALIFORNIA REQUIREMENTS.
3. BRACKETS AND FASTENERS FOR TIMBER FRAMING SHALL BE HOT-DIP GALVANIZED, EPOXY-COATED OR STAINLESS STEEL. CONNECTORS TO BE 1/4" MIN THICKNESS, UNLESS OTHERWISE NOTED.
4. WALKING SURFACES SHALL HAVE A SKID-RESISTANT FINISH, SUCH AS UNPAINTED TIMBER.
5. ALL TIMBER PLATFORM FRAMING AND RAILINGS SHALL BE DESIGNED BY A LICENSED ENGINEER AND ARE NOT DETAILED IN THIS STANDARD.
6. TIMBER STRINGER SPLICES ARE NOT PERMITTED BETWEEN PILES.
7. NO COATING ON STEELWORK 4" FROM WELDED PARTS (PILE AND CAP) TO ALLOW FOR FIELD WELDING. TOUCH-UP THIS UNCOATED AREA AFTER FABRICATION PER MANUFACTURER'S RECOMMENDATIONS, INCLUDING SURFACE PREPARATION. IF PILES REQUIRE CUT-OFF DUE TO SUFFICIENT BLOW COUNTS PRIOR TO OBTAINING TIP ELEVATION, REMOVE COATING IN UPPER 4" OF PILE TO ALLOW FIELD WELDING.
8. FOR ADDITIONAL CORROSION RESISTANCE, THE APPLICANT MAY WISH TO CONSIDER INSTALLING A PASSIVE OR ACTIVE CATHODIC PROTECTION SYSTEM.
9. AN ENGINEER LICENSED IN THE STATE OF CALIFORNIA SHALL VERIFY PILE SIZE AND TYPE, AS WELL AS EMBEDMENT.

APP. *James M. Hinkle* 51568 11/24/2020  
 CITY ENGINEER RCE DATE

NO.	DATE	DESCRIPTION OF REVISIONS

**CITY OF NEWPORT BEACH DEPARTMENT OF PUBLIC WORKS**

DRAWN: P. KHARAZMI  
 DATE: 11/3/2020

**TYPICAL PIER SECTION  
(ALTERNATE)**

STANDARD DRAWING NO.

**610**

SHEET 2 OF 2