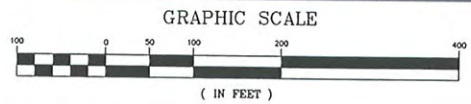
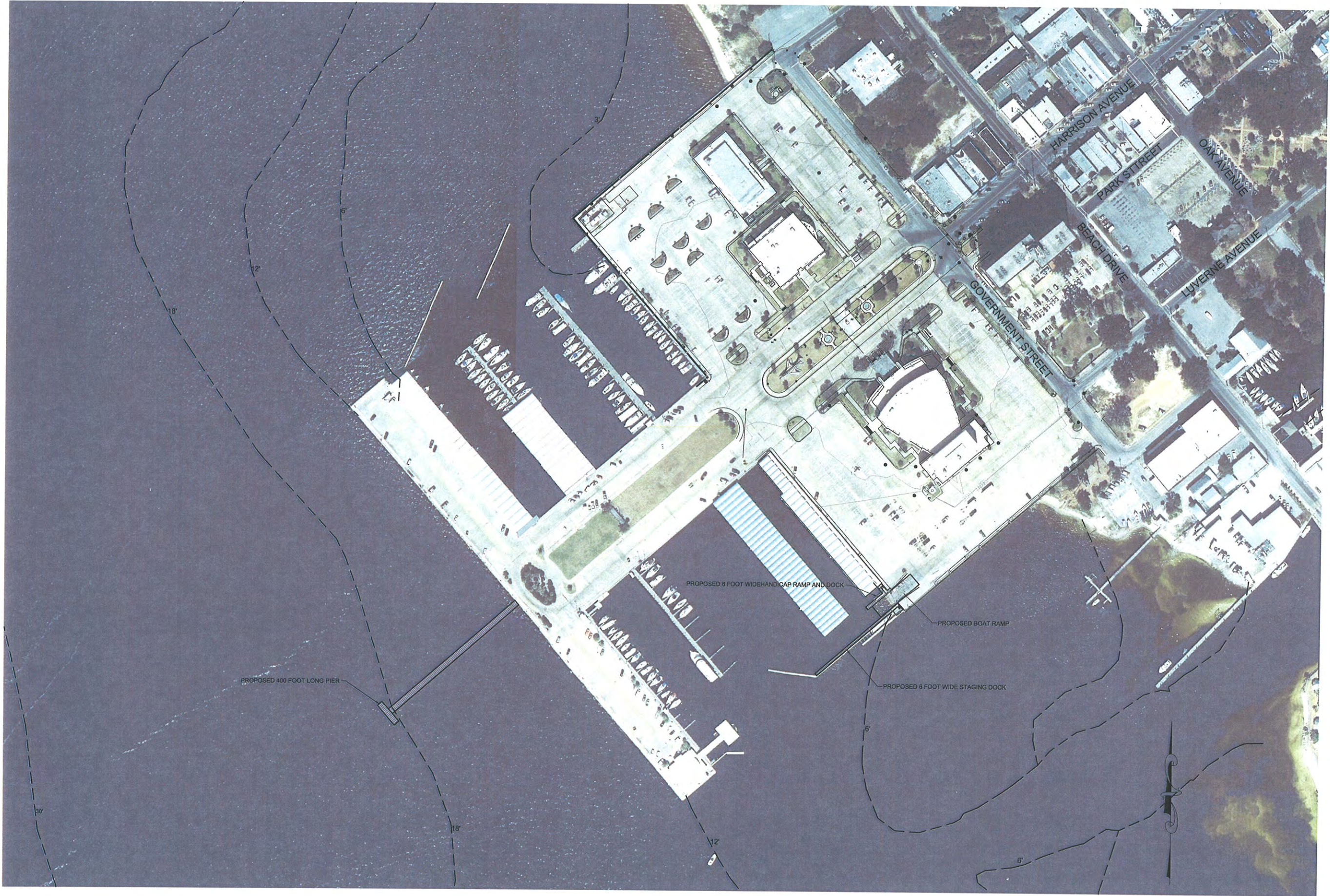


June 21, 2012 (05:24:08 EST)
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PREBLE-RISH INC
CONSULTING ENGINEERS AND SURVEYORS
CIVIL • SURVEYING • SITE PLANNING
203 ABERDEEN PKWY, PANAMA CITY, FL 32405
(850) 522-0644

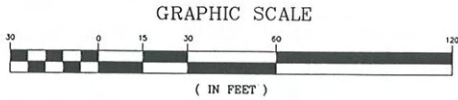
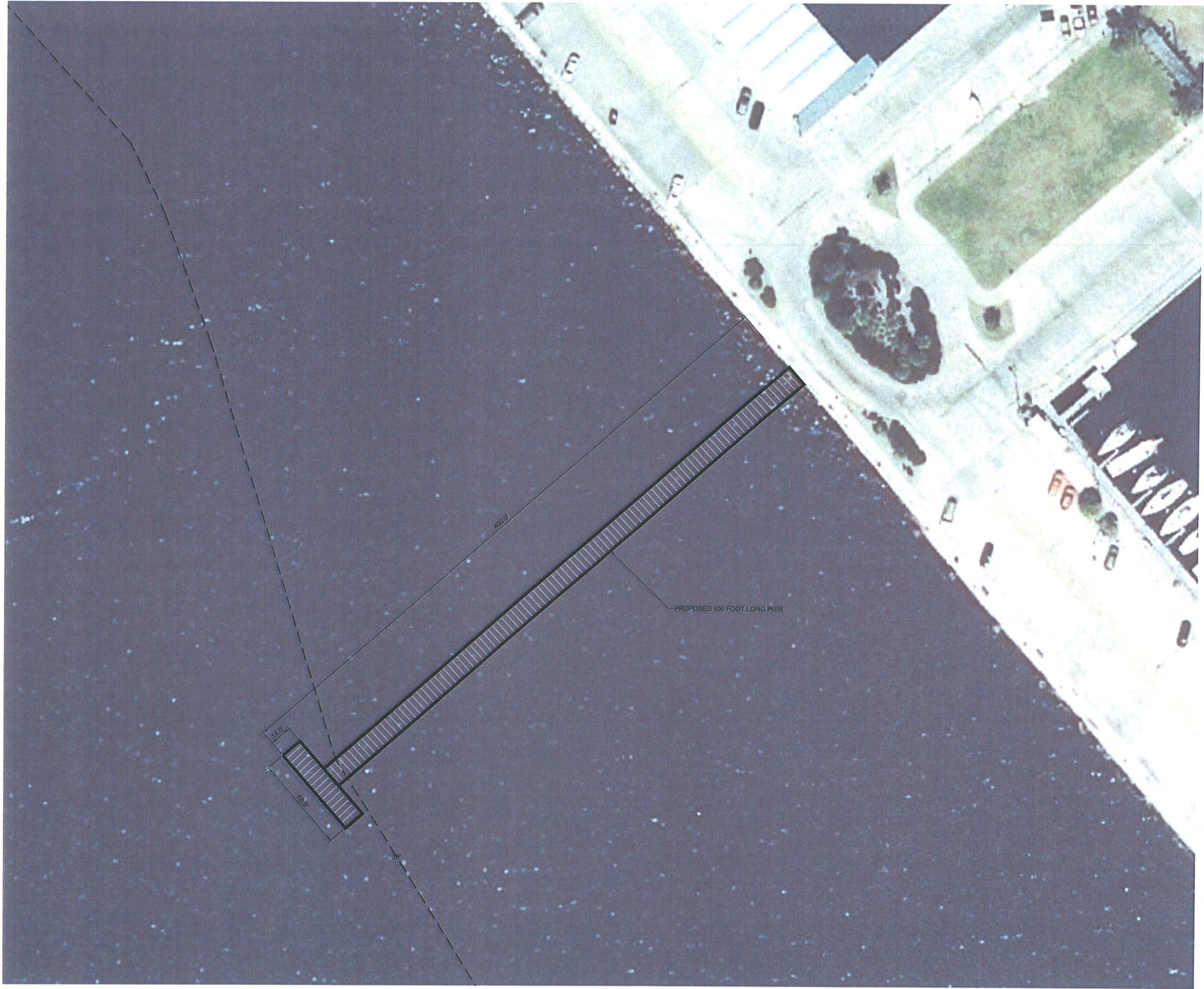
PRELIMINARY PLAN VIEW WITH AERIAL
CITY MARINA
BOAT RAMP, DOCK, AND PIER
PANAMA CITY, BAY COUNTY, FLORIDA

PROJECT NO. **198.012** SHEET **1**

SCALE: AS SHOWN	DESIGNED: C. FOREHAND	DRAWN: J. FOY	CHECKED: C. FOREHAND	DATE: JUNE 2012
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NO.	DATE	APPROVAL	REVISION
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7			
DESIGNED BY: FOREHAND TRAVIS A. JUSTICE, 50025 FLORIDA LICENSE 50025 JANUARY 2009 AIAA WIDE 70031			
EB 0000155			

June 20, 2012 (06:42:00 EST)
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PIER PLAN VIEW
CITY MARINA
BOAT RAMP, DOCK, AND PIER
PANAMA CITY, BAY COUNTY, FLORIDA

PREBLE-RISH INC
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CIVIL • SURVEYING • SITE PLANNING
203 ABERDEEN PKWY, PANAMA CITY, FL 32405
(850) 522-0644

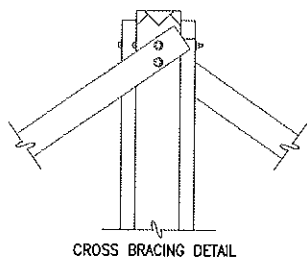
SCALE: AS SHOWN
DESIGNED: C. FOREHAND
DRAWN: J. FOY
CHECKED: C. FOREHAND
DATE: JUNE 2012

NOT A REVISION, UNLESS SHOWN WITH PROFESSIONAL ENGINEER SEAL				REVISION:	
NO.	DATE	APPR.			
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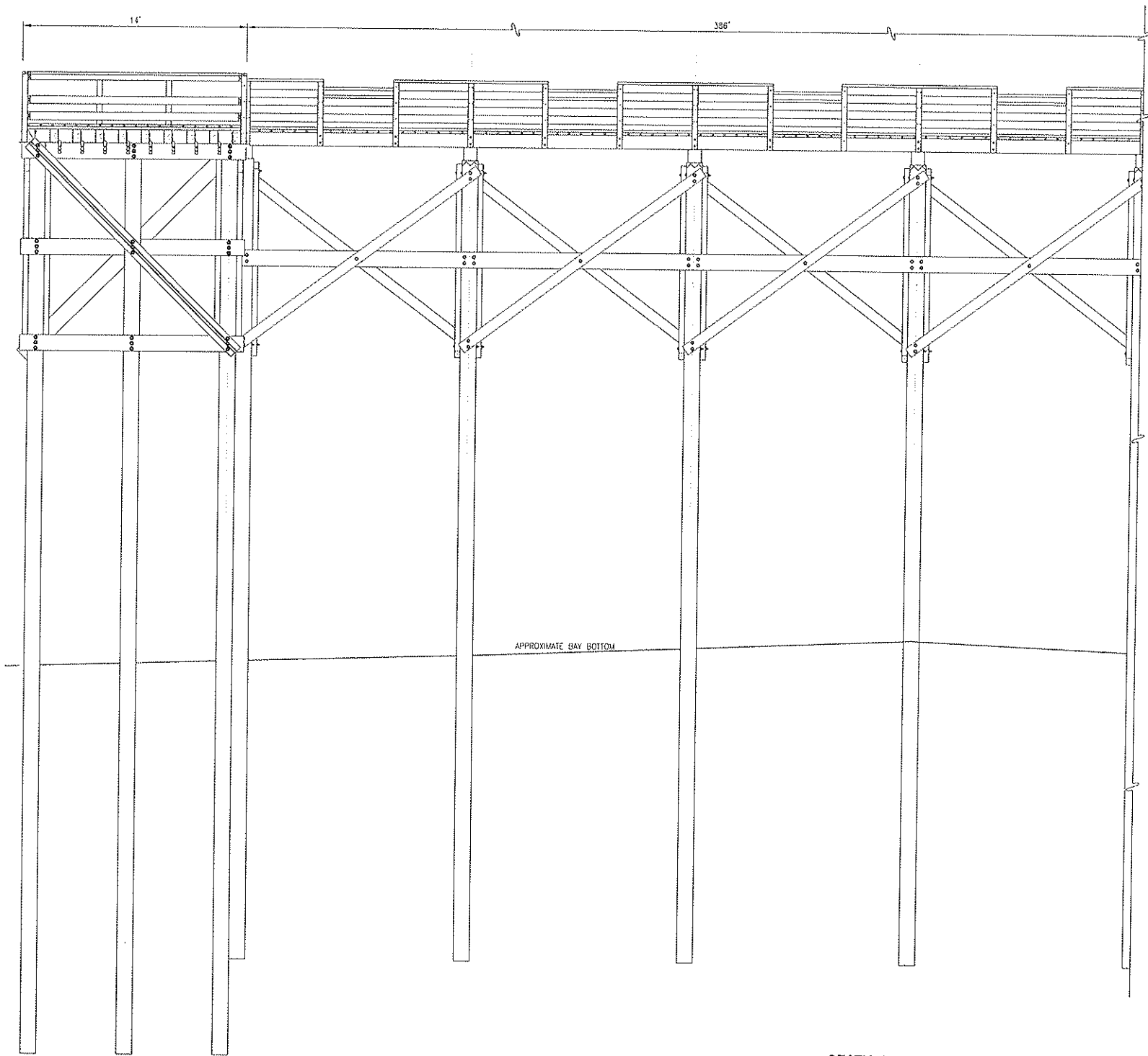
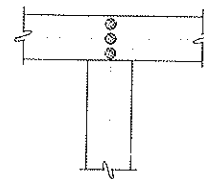
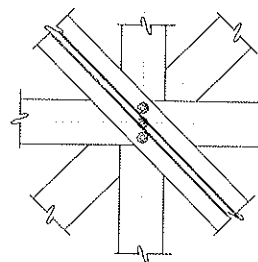
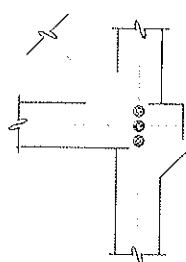
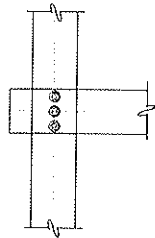
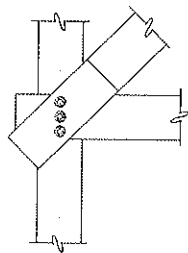
PROJECT NO. 198.012 SHEET 2

DESIGNED BY: C. FOREHAND 58028
DRAWN BY: J. FOY 51507
CHECKED BY: C. FOREHAND 58028
DATE: JUNE 2012
PROJECT: CITY MARINA BOAT RAMP AND PIER IMPROV
DRAWN BY: J. FOY 51507
CHECKED BY: C. FOREHAND 58028
DATE: JUNE 2012
PROJECT: CITY MARINA BOAT RAMP AND PIER IMPROV

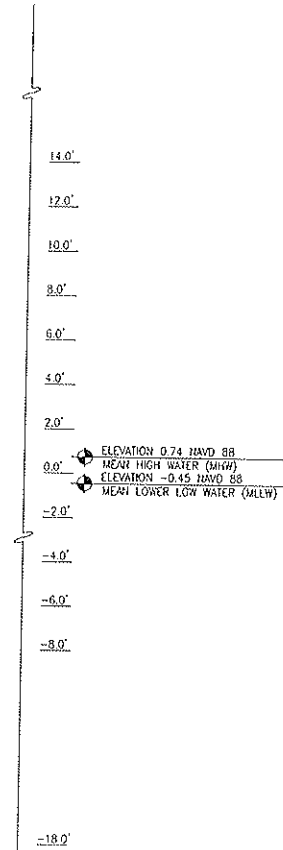
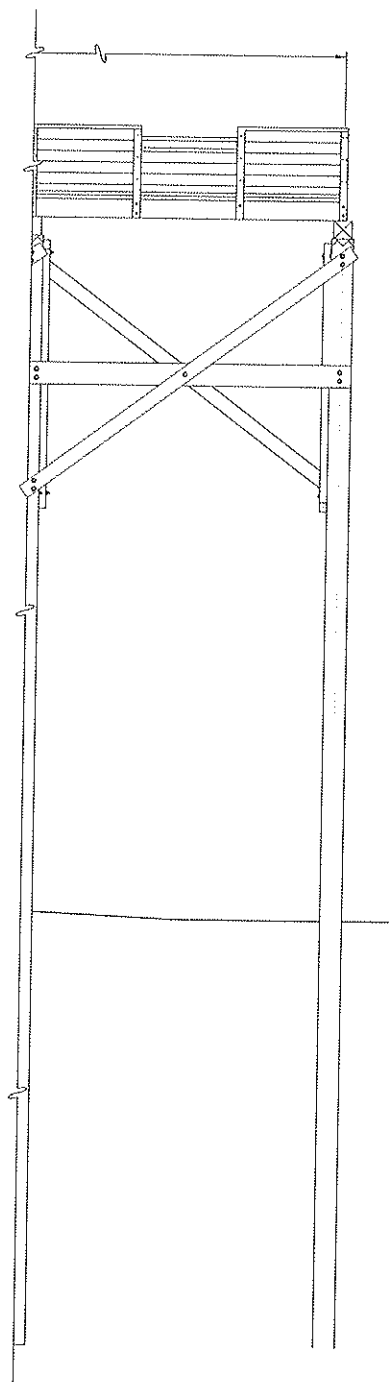
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CROSS BRACING DETAIL



SECTION A-A



PRELIMINARY PIER DETAILS

CITY MARINA
BOAT RAMP, DOCK, AND PIER
PANAMA CITY, BAY COUNTY, FLORIDA

PREBLERISH INC
CONSULTING ENGINEERS AND SURVEYORS
CIVIL • SURVEYING • SITE PLANNING
203 ABERDEEN PKWY, PANAMA CITY, FL 32405
(850) 522-0644

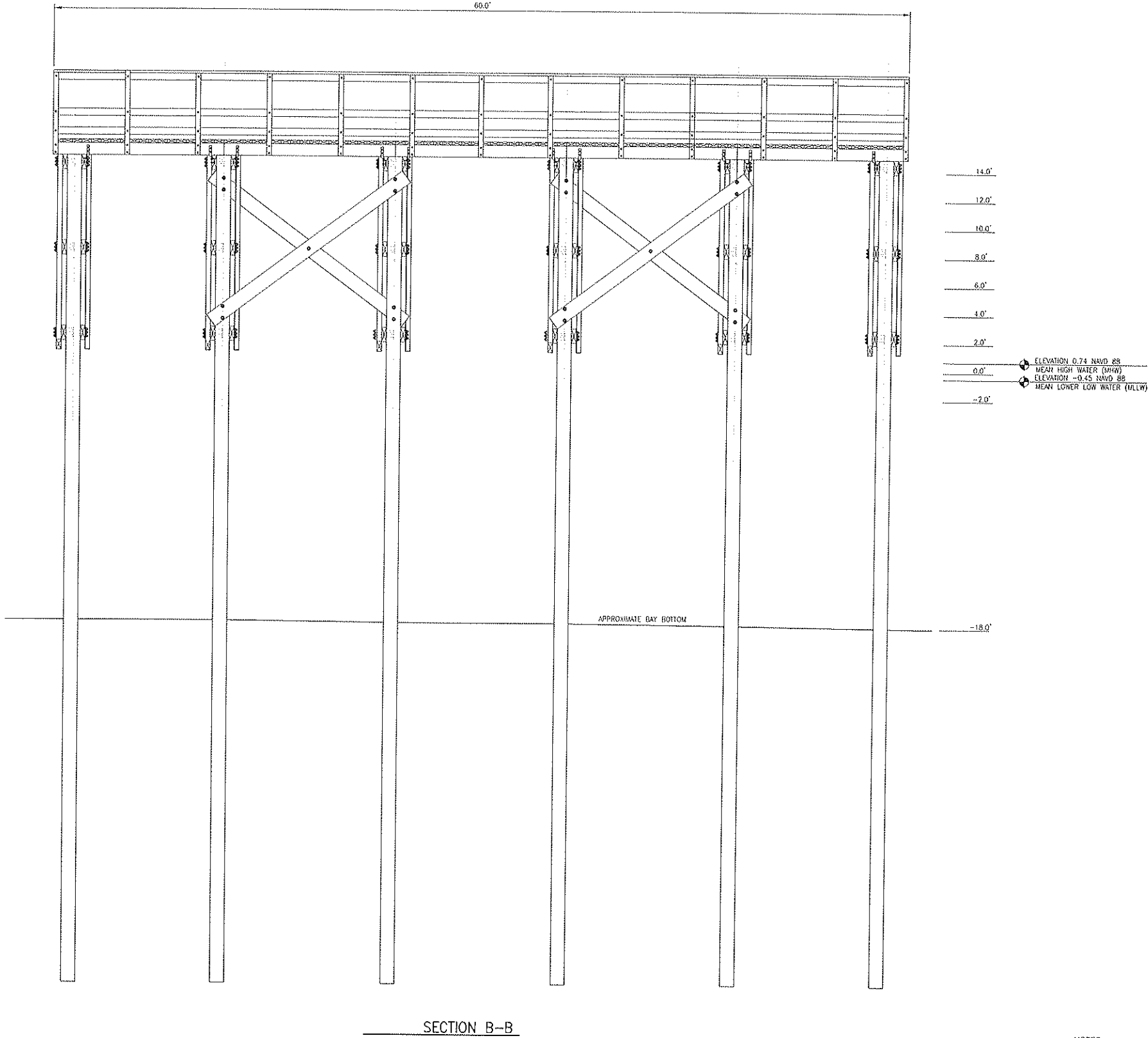
SCALE: 1" = 10'
DESIGNED: C. FOREHAND
DRAWN: J. FOY
CHECKED: C. FOREHAND
DATE: JUNE 2012

NOT APPROVED UNLESS COMPLETED WITH PROFESSIONAL ENGINEER'S SEAL

NO.	DATE	APPROVED	REVISION
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DESIGNED BY: L. FOREHAND 5/20/12
DRAWN BY: J. FOY 5/20/12
CHECKED BY: C. FOREHAND 5/20/12
APPROVED BY: PREBLERISH INC 5/20/12

PROJECT NO. 198.012
SHEET D2



- NOTES:
1. ALL LUMBER, INCLUDING THE HANDRAILS AND POST SHALL BE ROUGH SAWN, SQUARE EDGE WITH 0.8 CCA TREATMENT.
 2. ALL PILES SHALL BE JETTED TO WITHIN FIVE (5) FEET OF THE FINAL TIP ELEVATION AND THE FINAL FIVE (5) FEET SHALL BE DRIVEN TO THE TIP ELEVATION.
 3. ALL FIBERGLASS PILES TO BE FILLED WITH CONCRETE (3,000 PSI WITH FIBERMESH).

PRELIMINARY PIER DETAILS

CITY MARINA
BOAT RAMP, DOCK, AND PIER
PANAMA CITY, BAY COUNTY, FLORIDA

PREBLE-RISH INC
CONSULTING ENGINEERS AND SURVEYORS
CIVIL • SURVEYING • SITE PLANNING
203 ABERDEEN PKWY, PANAMA CITY, FL 32405
(850) 522-0644

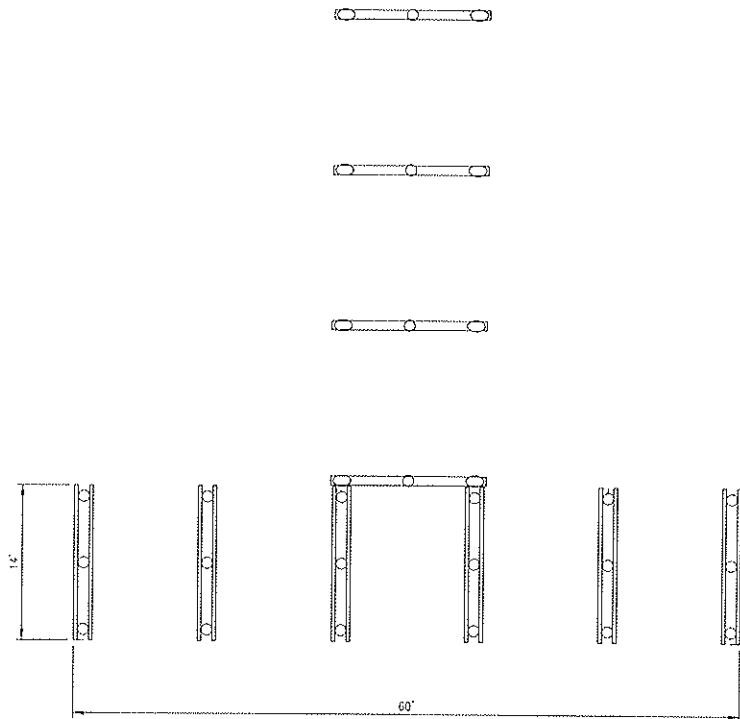
SCALE: 1" = 10'
DESIGNED: C. FOREHAND
DRAWN: J. FOY
CHECKED: C. FOREHAND
DATE: JUNE 2012

NOT APPROVED UNLESS STAMPED WITH PROFESSIONAL ENGINEER SEAL

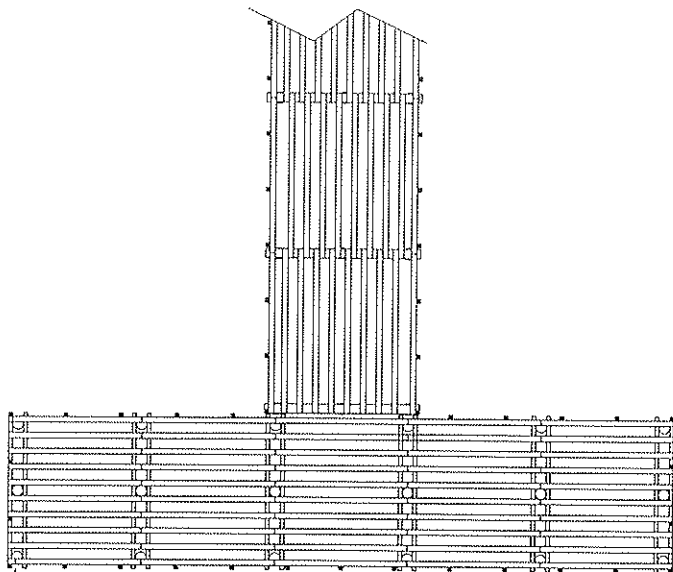
NO.	DATE	APP.	REVISION
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PROJECT NO. 198.012
SHEET D3
DESIGNED BY: C. FOREHAND
DRAWN BY: J. FOY
CHECKED BY: C. FOREHAND
DATE: JUNE 2012
PROJECT NO. 198.012
SHEET D3
DESIGNED BY: C. FOREHAND
DRAWN BY: J. FOY
CHECKED BY: C. FOREHAND
DATE: JUNE 2012

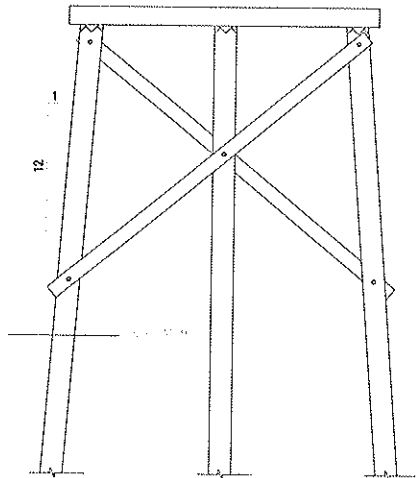
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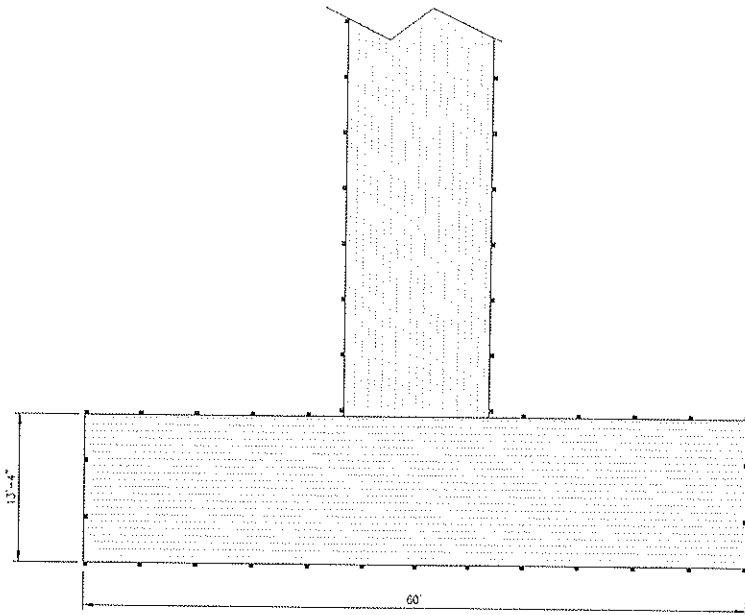
DETAIL PILING PLAN
SCALE: 1/8" = 1'-0"



DETAIL PILE CAPS, RAILING POS AND STRINGERS
SCALE: 1/8" = 1'-0"



DETAIL TYPICAL BENT
SCALE: 1/4" = 1'-0"



DETAIL DECKING PLAN
SCALE: 1/8" = 1'-0"

- NOTES:
1. ALL LUMBER, INCLUDING THE HANDRAILS AND POST SHALL BE ROUGH SAWN, SQUARE EDGE WITH 0.8 CCA TREATMENT.
 2. ALL PILES SHALL BE JETTED TO WITHIN FIVE (5) FEET OF THE FINAL TIP ELEVATION AND THE FINAL FIVE (5) FEET SHALL BE DRIVEN TO THE TIP ELEVATION.

PRELIMINARY PIER DETAILS

CITY MARINA
BOAT RAMP, DOCK, AND PIER
PANAMA CITY, BAY COUNTY, FLORIDA

PREBLE-RISH INC
CONSULTING ENGINEERS AND SURVEYORS
CIVIL • SURVEYING • SITE PLANNING
203 ABERDEEN PKWY, PANAMA CITY, FL 32405
(850) 522-0044

SCALE: 1" = 100'
DESIGNED: C. FOREHAND
DRAWN: J. FOY
CHECKED: C. FOREHAND
DATE: JUNE 2012

NOT APPROVED UNLESS SIGNED WITH PROFESSIONAL ENGINEER SEAL

REGION:

NO.	DATE	APPROVED
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DESIGNED BY: JORDAN
CHECKED BY: J. FOY
DATE: JUNE 2012
PROJECT NO. 198.012
SHEET NO. D4

EE 0006155

EDUCATION: M.S. 5/07
EXPERIENCE: 6 YRS
AREA: 198.012

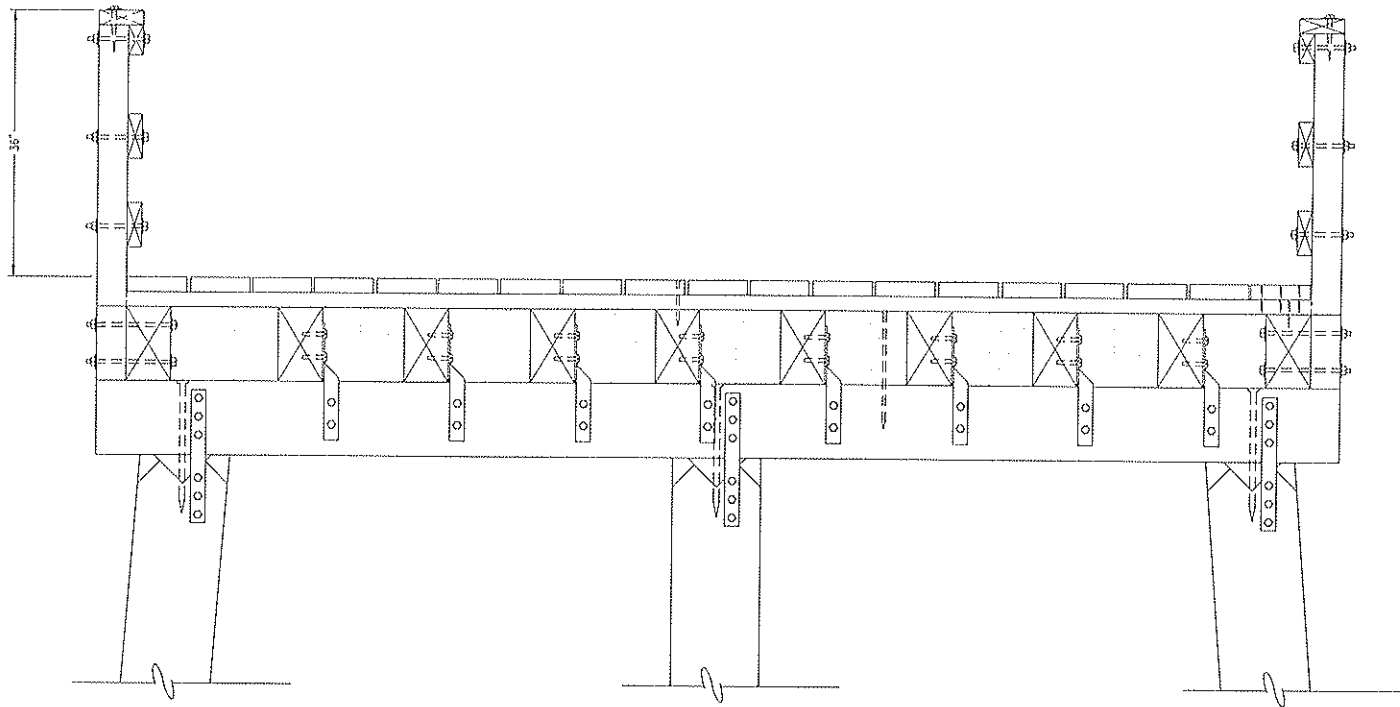
PROJECT NO.
198.012

SHEET
D4

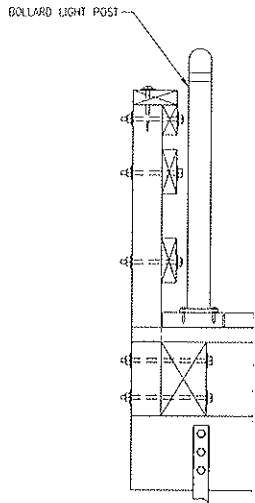
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GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE AND LIGHTS TO MATCH EXISTING.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION OF THE END OF THE EXISTING PIER AND ANY TRANSITION MATERIALS REQUIRED FOR THE EXTENSION.
3. ALL BOLTS, SCREWS, NAIL, NUTS, WASHERS, OR ANY OTHER METAL SHALL BE HOT STAINLESS STEEL UNLESS SPECIFIED OTHERWISE.
4. THE BOLTS, NUTS AND WASHERS ON THE SWAY BRACING OF EACH BENT SHALL BE STAINLESS STEEL.
5. ALL LUMBER EXCEPT PILING SHALL BE ROUGH SAWN NO. 1 SOUTHERN PINE PRESSURE TREATED WITH CHROMATED COPPER ARSENATE (CCA) TO A RETENTION OF 0.8 POUNDS PER CUBIC FOOT.
6. ALL BOLTS SHALL INCLUDE TWO HEAVY GAUGE FLAT WASHERS (ONE UNDER THE NUT AND ONE UNDER THE HEAD). BOLTS SHALL CONFORM TO ASTM STANDARD A-307, LOW CARBON STEEL EXTERNALLY AND INTERNALLY THREADED STANDARD FASTENERS.
7. ALL WORK AND MATERIALS SHALL CONFORM WITH THE NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION, LATEST EDITION.
8. PILING SHALL BE 8" TIP (DIAMETER) SOUTHERN PINE, PRESSURE TREATED WITH CHROMATED COPPER ARSENATE (CCA) TO A RETENTION OF 2.5 POUNDS PER CUBIC FOOT. PILING SHALL CONFORM TO ASTM D-25-73 STANDARD SPECIFICATIONS FOR ROUND TIMBER PILES.
9. ALL PRESSURE TREATMENT SHALL BE IN ACCORDANCE WITH AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA) STANDARD C1 AS SUPPLEMENTED BY AWPA STANDARD C-2 & C-3.
10. BOLT HOLES SHALL BE 1/16" LARGER THAN THE BOLT.
11. SCREW INSERTION - THE SCREW SHALL BE INSERTED BY TURNING WITH A SCREW DRIVER, NOT BY DRIVING WITH A HAMMER.
12. DECKING & RUNNERS - INSTALL "BARK SIDE UP".
13. PILES MAY BE JETTED TO FINAL TIP ELEVATION.
14. THIS PIER WAS DESIGNED FOR A CONSTRUCTION LIVE LOAD OF 125 PSF PLUS A CONCENTRATED LIVE LOAD OF 6,000 LBS. THE CONCENTRATED LOAD IS ASSUMED TO BEAR DIRECTLY ON THE PILE CAP. IF OTHER BEARING POINTS ARE REQUIRED PLEASE CONSULT THE ENGINEER. IN ADDITION THE PIER HAS BEEN DESIGNED FOR A 110 MPH WIND LOAD AND WAVE FORCES ASSOCIATED WITH A 20 YEAR STORM EVENT.



SECTION TYPICAL, PIER CAP AND DECK
SCALE: 1" = 1'-0"



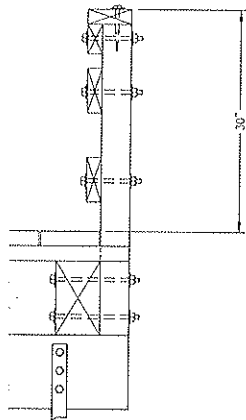
DETAIL PIER LIGHTING
SCALE: 1" = 1'-0"



DETAIL DECKING SECTION
SCALE: N.T.S.



DETAIL DECKING PLAN (NORTHWEST TO SOUTHEAST)
SCALE: N.T.S.



DETAIL SECTION AT STEP DOWN SIDE RAIL
SCALE: 1" = 1'-0"

NOTES:

1. ALL LUMBER, INCLUDING THE HANDRAILS AND POST SHALL BE ROUGH SAWN, SQUARE EDGE WITH 0.8 CCA TREATMENT.
2. ALL PILES SHALL BE JETTED TO WITHIN FIVE (5) FEET OF THE FINAL TIP ELEVATION AND THE FINAL FIVE (5) FEET SHALL BE DRIVEN TO THE TIP ELEVATION.

PRELIMINARY PIER DETAILS

CITY MARINA
BOAT RAMP, DOCK, AND PIER
PANAMA CITY, BAY COUNTY, FLORIDA

PREBLE-RISH INC.
CONSULTING ENGINEERS AND SURVEYORS
CIVIL • SURVEYING • SITE PLANNING
203 ABERDEEN PKWY, PANAMA CITY, FL 32405
(850) 522-0644

SCALE: 1" = 10'
DESIGNED: C. FOREHAND
DRAWN: J. FOY
CHECKED: C. FOREHAND
DATE: JUNE 2012

NOT APPROVED UNLESS SIGNED WITH
PROFESSIONAL REGISTERED SEAL

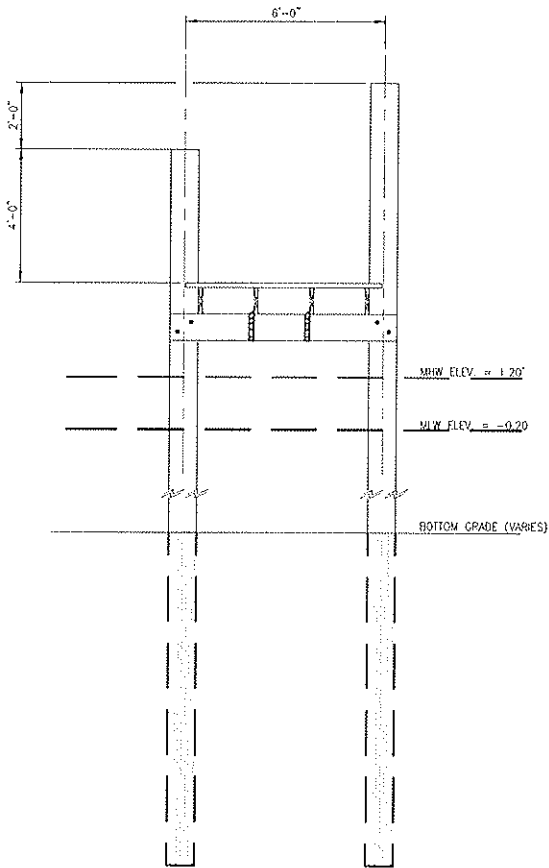
REVISION

NO. DATE APPR.

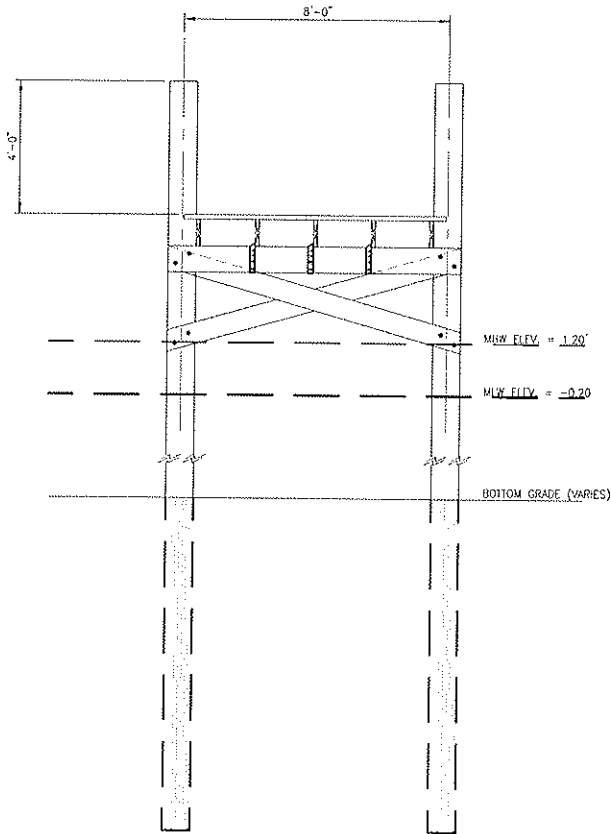
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EDB 02/01/14

ENGINEERED BY: (PROVIDED) 00000
PROJECT NO.: 198.012
SHEET NO.: 0000
DATE: 06/20/12



SECTION 6' WIDE DOCK
SCALE: 3/8" = 1'-0"



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

JUNE 20, 2012 09:05:36 EST
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PROJECT NO.
198.012

SHEET
D6

DOCK SECTION

CITY MARINA
BOAT RAMP, DOCK, AND PIER
PANAMA CITY, BAY COUNTY, FLORIDA

**PREBLE-RISH INC.**
CONSULTING ENGINEERS AND SURVEYORS
CIVIL • SURVEYING • SITE PLANNING
203 ABERDEEN PKWY, PANAMA CITY, FL 32405
(850) 522-0644

SCALE: 1" = 10'
DESIGNED: C. FOREHAND
DRAWN: J. FOY
CHECKED: C. FOREHAND
DATE: JUNE 2012

NOT APPROVED UNLESS SIGNED WITH
PROFESSIONAL ENGINEER SEAL

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DESIGNED BY: C. FOREHAND
DRAWN BY: J. FOY
CHECKED BY: C. FOREHAND
DATE: JUNE 2012

PROJECT NO.: 198.012
SHEET NO.: D6

PROJECT: CITY MARINA BOAT RAMP AND PIER IMPROVEMENTS
LOCATION: PANAMA CITY, FLORIDA