

10/12/2023 4:22 PM



## VICINITY MAP

SCALE: 1" = 1000'



HARRIS COUNTY, TX  
 LAT. 29° 43' 58.74" N  
 LONG. 95° 07' 20.48" W

## NOTES

1. STRUCTURES SHALL ALSO BE MARKED/LIGHTED IN ACCORDANCE WITH U.S. COAST GUARD REGULATIONS.
2. ALL ELEVATIONS REFER TO NAVD88 UNLESS NOTED OTHERWISE.



## AREA MAP

## DRAWING INDEX

DRAWING NO.	REVISION	TITLE
P1	B	VICINITY MAP, AREA MAP & DRAWING INDEX
P2	B	LOCATION SITE PLAN
P3	B	EXISTING SITE PLAN
P4	B	PROPOSED SITE PLAN
P5	B	PROPOSED FIREBOAT ENLARGED PIER PLAN
P6	B	BULKHEAD SECTION
P7	B	BULKHEAD SECTION
P8	B	PROPOSED FIREBOAT PIER SECTIONS
P9	B	PROPOSED NEW PROTECTION MONOPILE ELEVATION

KEVIN L. DROUET P.E.  
 LA PE #113470

PRELIMINARY - FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION

REV  
 B

**LANIER & ASSOCIATES**  
 CONSULTING ENGINEERS  
 INCORPORATED

LA: EF-1120 TX: F-2981  
 NEW ORLEANS • BEAUMONT • CORPUS CHRISTI • HOUSTON

DEER PARK  
 TEXAS

DEER PARK REFINERY, LP

**BULKHEAD & FIREBOAT PIER  
 REPAIR PROJECT**

VICINITY MAP, AREA MAP &amp; DRAWING INDEX

DATE JULY '23  
 DESIGN KLD  
 DRAWN JMM  
 CHECK JTM  
 JOB NO 12483  
 SHEET No.  
 1 OF 9

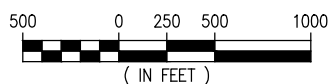
J:\12000S\12483 PEMEX FTG BLKHD &amp; E PIER\DRAWINGS\PERMIT\12483-0-P1.DWG



10/12/2023 4:22 PM

**LOCATION SITE PLAN**

SCALE: 1" = 1000'

KEVIN L. DROUET P.E.  
LA PE #113470**PRELIMINARY - FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION**REV  
B**LANIER & ASSOCIATES  
CONSULTING ENGINEERS  
INCORPORATED**LA: EF-1120 TX: F-2981  
NEW ORLEANS • BEAUMONT • CORPUS CHRISTI • HOUSTON

DEER PARK

DEER PARK REFINERY, LP

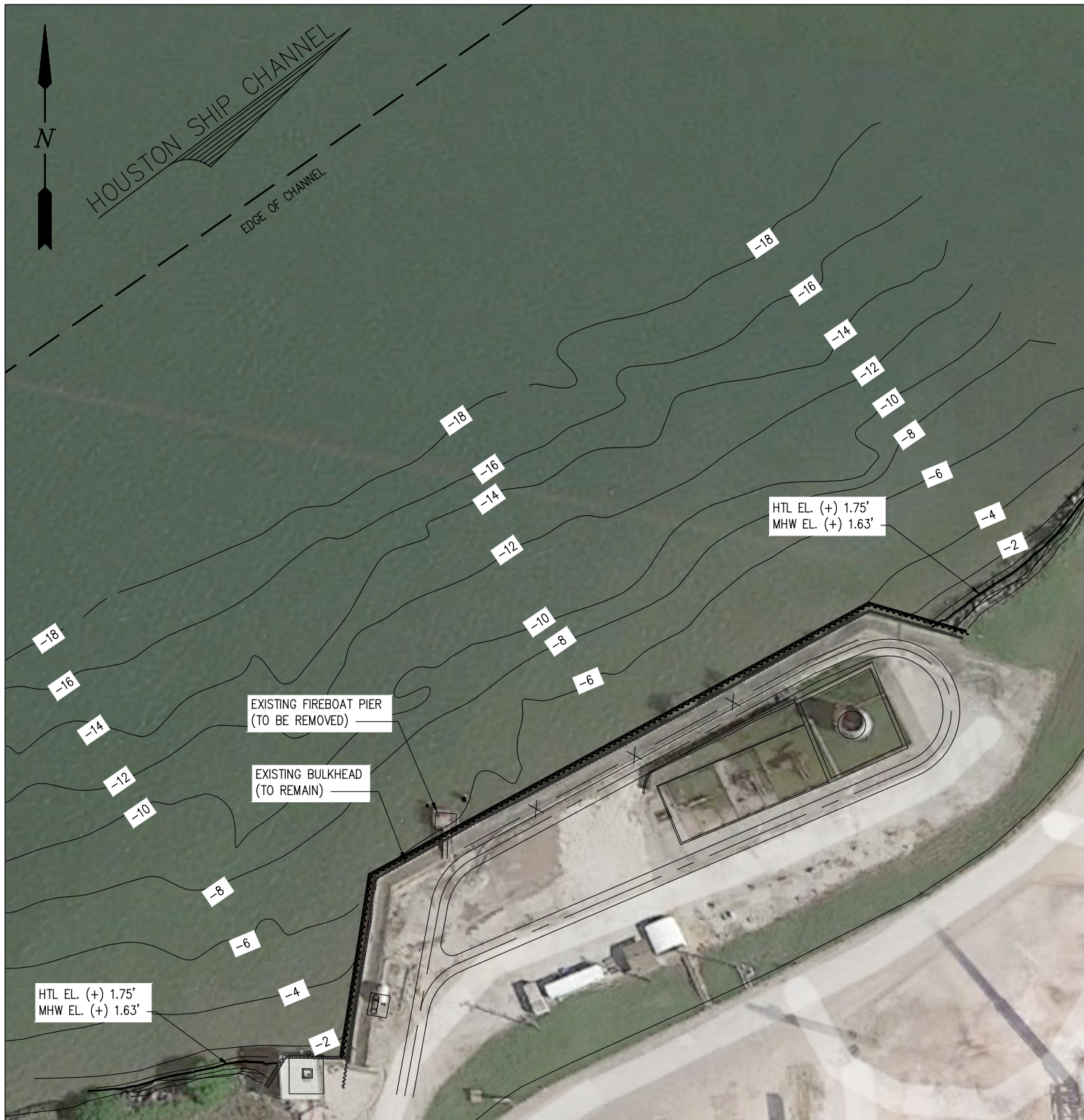
TEXAS

**BULKHEAD & FIREBOAT PIER  
REPAIR PROJECT  
LOCATION SITE PLAN**DATE JULY '23  
DESIGN KLD  
DRAWN JMM  
CHECK JTM  
JOB NO 12483  
SHEET No.  
2 OF 9

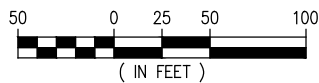
J:\12000S\12483 PEMEX FTG BLKHD &amp; E PIER\DRAWINGS\PERMIT\12483-0-P2.DWG



10/12/2023 4:22 PM

**EXISTING SITE PLAN**

SCALE: 1" = 100'

KEVIN L. DROUET P.E.  
LA PE #113470**PRELIMINARY - FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION**REV  
B**LANIER & ASSOCIATES**  
**CONSULTING ENGINEERS**  
INCORPORATEDLA: EF-1120 TX: F-2981  
NEW ORLEANS • BEAUMONT • CORPUS CHRISTI • HOUSTON

DEER PARK

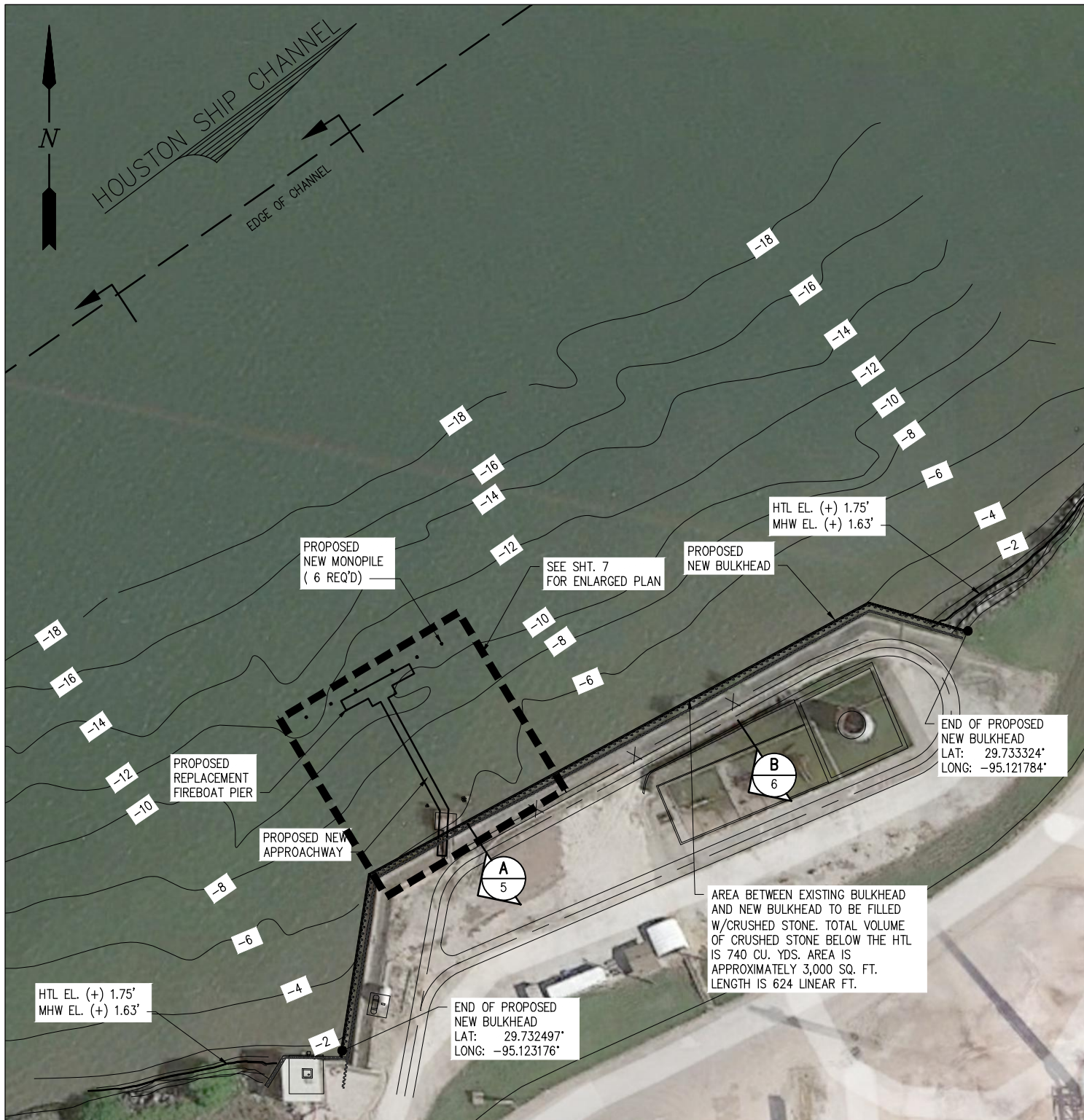
DEER PARK REFINERY, LP

TEXAS

**BULKHEAD & FIREBOAT PIER**  
**REPAIR PROJECT**  
**EXISTING SITE PLAN**DATE JULY '23  
DESIGN KLD  
DRAWN JMM  
CHECK JTM  
JOB NO 12483  
SHEET No.  
**3 OF 9**

J:\12000S\12483 PEMEX FTG BLKHD &amp; E PIER\DRAWINGS\PERMIT\12483-0-P3.DWG

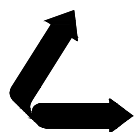
10/16/2023 12:43 PM



J:\12000S\12483 PEMEX FTG BLKHD &amp; E PIER\DRAWINGS\PERMIT\12483-0-P4.DWG

KEVIN L. DROUET P.E.  
LA PE #113470

PRELIMINARY - FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION

REV  
BLANIER & ASSOCIATES  
CONSULTING ENGINEERS  
INCORPORATEDLA: EF-1120 TX: F-2981  
NEW ORLEANS • BEAUMONT • CORPUS CHRISTI • HOUSTON

DEER PARK

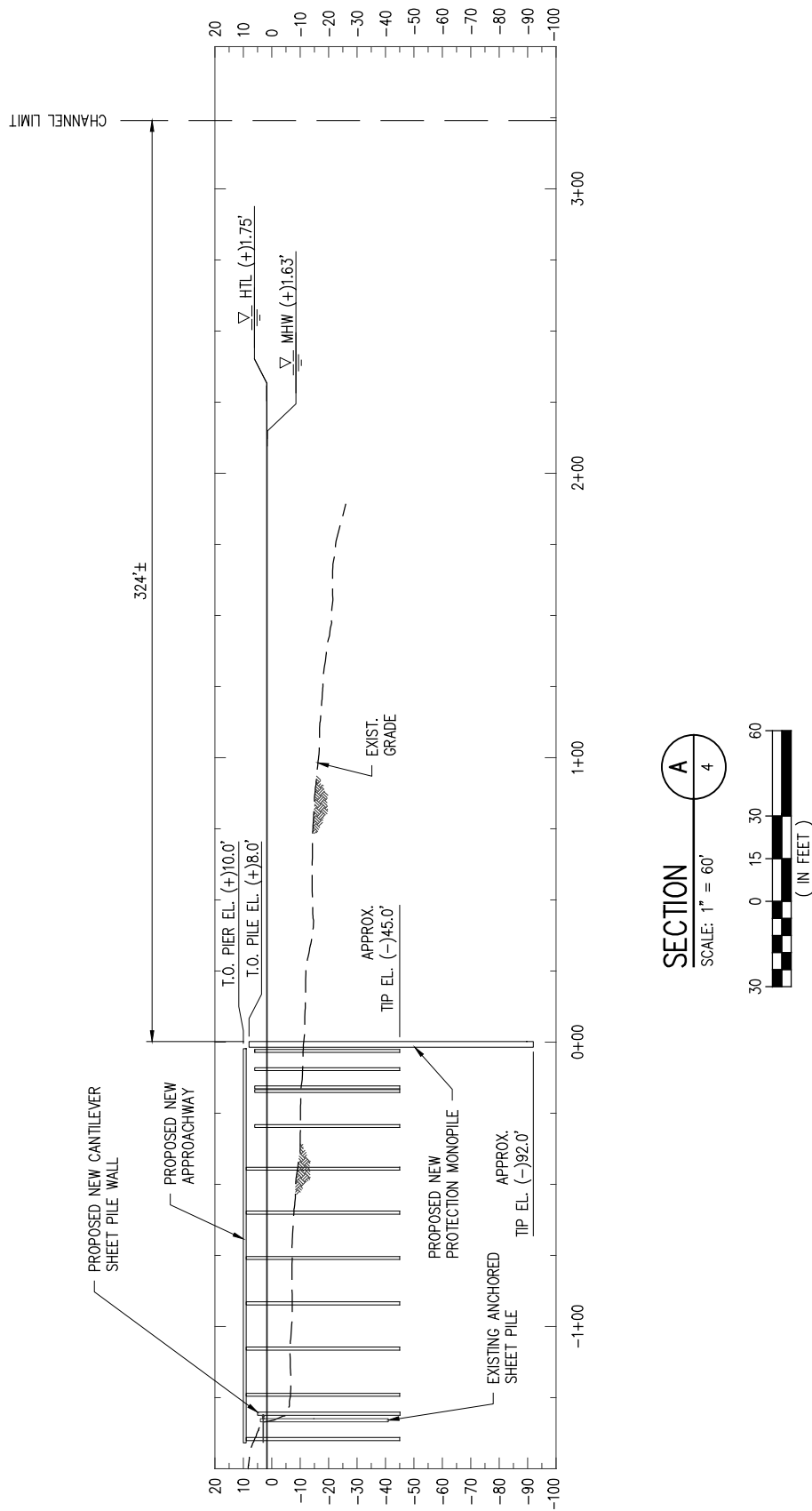
DEER PARK REFINERY, LP

TEXAS

BULKHEAD & FIREBOAT PIER  
REPAIR PROJECT  
PROPOSED NEW SITE PLANDATE JULY '23  
DESIGN KLD  
DRAWN JMM  
CHECK JTM  
JOB NO 12483  
SHEET No.  
4 OF 9

10/12/2023 4:22 PM

J:\12000S\12483 PEMEX FTG BLKHD &amp; E PIER\DRAWINGS\PERMIT\12483-0-P5.DWG

**NOTES:**

- EXISTING BATHYMETRY BASED ON LANIER HYDROGRAPHIC SURVEY PERFORMED IN JUNE 2022.
- HORIZONTAL DATUM REFERENCED TO LOUISIANA STATE PLANE (SOUTH) NAD 83
- ALL ELEVATIONS ARE EXPRESSED IN FEET AND TENTHS AND ARE REFERENCED TO NAVD 88.

KEVIN L. DROUET P.E.  
LA PE #113470**PRELIMINARY - FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION**REV  
B**LANIER & ASSOCIATES**  
**CONSULTING ENGINEERS**  
INCORPORATEDLA: EF-1120 TX: F-2981  
NEW ORLEANS • BEAUMONT • CORPUS CHRISTI • HOUSTON

DEER PARK

DEER PARK REFINERY, LP

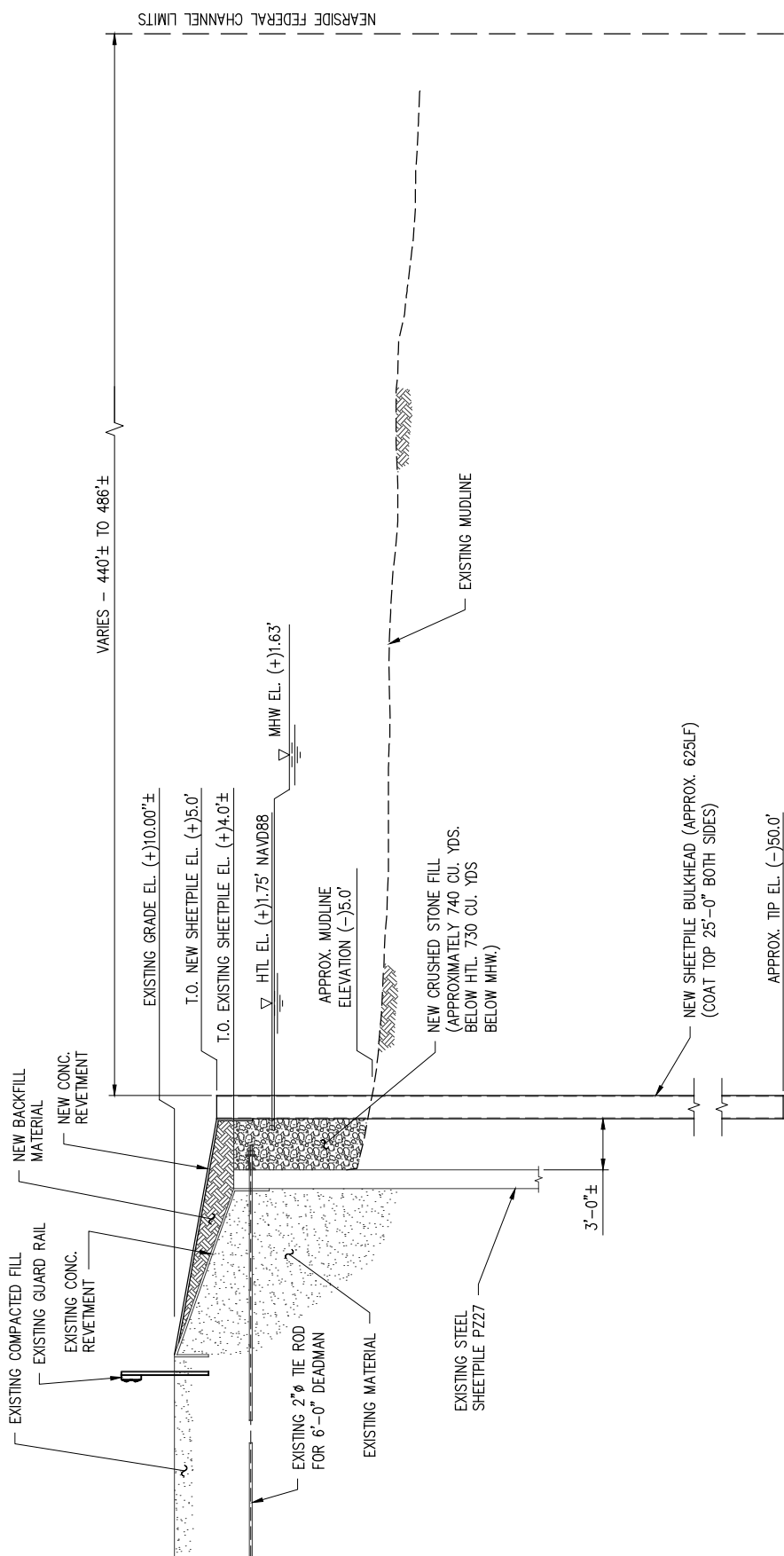
TEXAS

**BULKHEAD & FIREBOAT PIER**  
**REPAIR PROJECT**  
**BULKHEAD SECTION**DATE JULY '23  
DESIGN KLD  
DRAWN JMM  
CHECK JTM  
JOB NO. 12483  
SHEET No. 5 OF 9



10/12/2023 4:22 PM

J:\12000S\12483 PEMEX FTG BLKHD &amp; E PIER\DRAWINGS\PERMIT\12483-0-P6.DWG



SECTION **B**

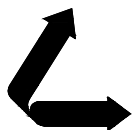
SCALE: 1" = 10'

- NOTES:**
1. EXISTING BATHYMETRY BASED ON LANIER HYDROGRAPHIC SURVEY PERFORMED IN JUNE 2022.
  2. HORIZONTAL DATUM REFERENCED TO LOUISIANA STATE PLANE (SOUTH) NAD 83
  3. ALL ELEVATIONS ARE EXPRESSED IN FEET AND TENTHS AND ARE REFERENCED TO NAVD 88.
  4. AVERAGE BULKHEAD FILL BELOW "HIGH TIDE LINE" = 1.19 YD<sup>3</sup> PER FOOT OF BULKHEAD.
  5. TOTAL BULKHEAD FILL BELOW "HIGH TIDE LINE" = 740 YD<sup>3</sup>

KEVIN L. DROUET P.E.  
LA PE #113470

PRELIMINARY - FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION

REV  
B



**LANIER & ASSOCIATES**  
**CONSULTING ENGINEERS**  
INCORPORATED

LA: EF-1120 TX: F-2981  
NEW ORLEANS • BEAUMONT • CORPUS CHRISTI • HOUSTON

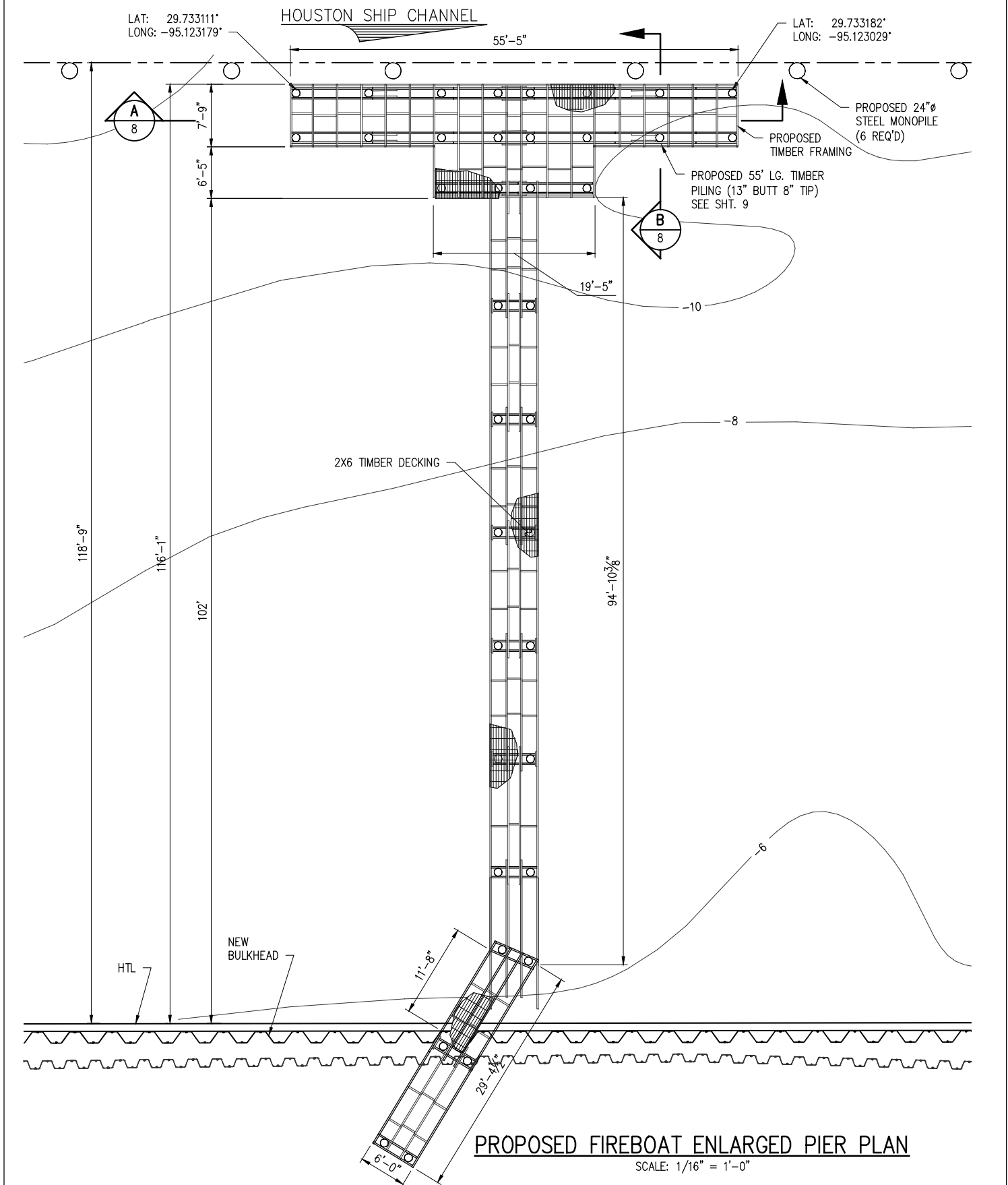
DEER PARK REFINERY, LP  
DEER PARK TEXAS

**BULKHEAD & FIREBOAT PIER**  
**REPAIR PROJECT**  
**BULKHEAD SECTION**

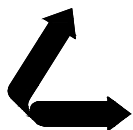
DATE JULY '23  
DESIGN KLD  
DRAWN JMM  
CHECK JTM  
JOB NO 12483  
SHEET No.  
6 OF 9

10/30/2023 2:17 PM

J:\120005\12483 PEMEX FTG BLKHD &amp; E PIER\DRAWINGS\PERMIT\12483-0-P7.DWG

KEVIN L. DROUET P.E.  
LA PE #113470

PRELIMINARY - FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION

REV  
D

**LANIER & ASSOCIATES**  
CONSULTING ENGINEERS  
INCORPORATED

LA: EF-1120 TX: F-2981  
NEW ORLEANS • BEAUMONT • CORPUS CHRISTI • HOUSTON

DEER PARK

**DEER PARK REFINERY, LP**

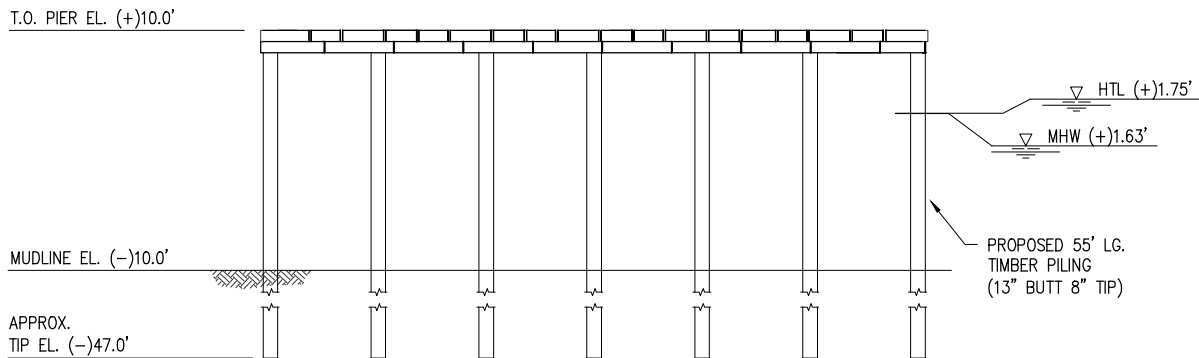
TEXAS

**BULKHEAD & FIREBOAT PIER  
REPAIR PROJECT**

**PROPOSED FIREBOAT ENLARGED PIER PLAN**

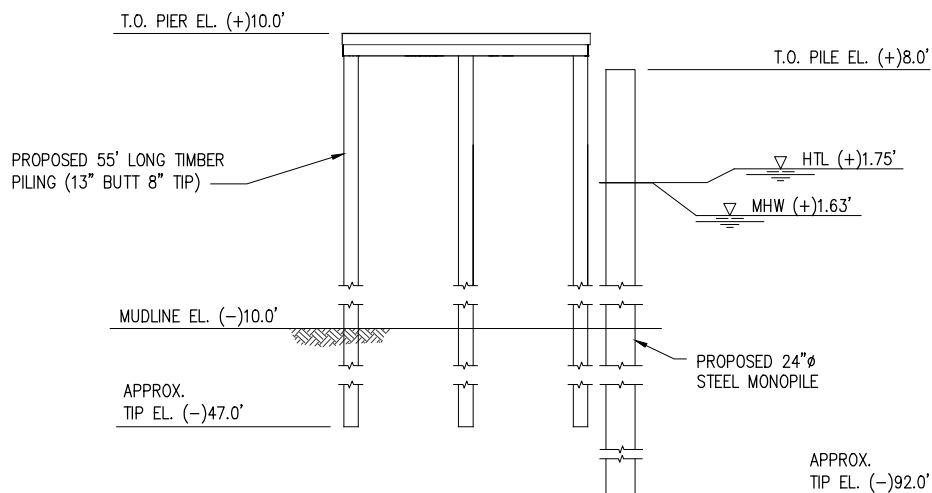
DATE JULY '23  
DESIGN KLD  
DRAWN JMM  
CHECK JTM  
JOB NO 12483  
SHEET No.  
7 OF 9

10/12/2023 4:23 PM



## PROPOSED FIREBOAT PIER SECTION

SCALE: 1/16" = 1'-0"

A  
7

## PROPOSED FIREBOAT PIER SECTION

SCALE: 3/32" = 1'-0"

B  
7KEVIN L. DROUET P.E.  
LA PE #113470

PRELIMINARY - FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION

REV  
BLANIER & ASSOCIATES  
CONSULTING ENGINEERS  
INCORPORATEDLA: EF-1120 TX: F-2981  
NEW ORLEANS • BEAUMONT • CORPUS CHRISTI • HOUSTON

DEER PARK

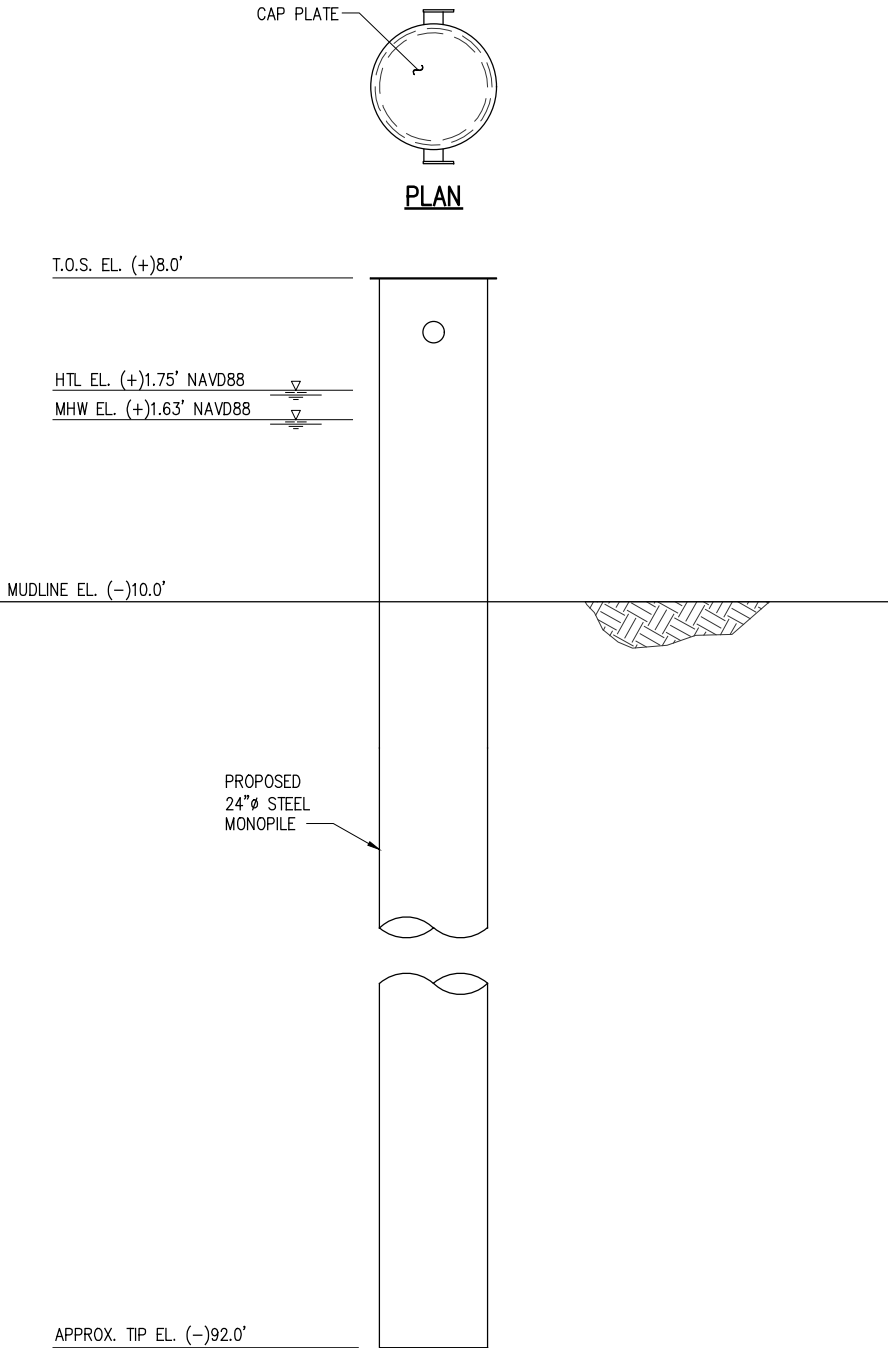
DEER PARK REFINERY, LP

TEXAS

BULKHEAD & FIREBOAT PIER  
REPAIR PROJECT  
PROPOSED FIREBOAT PIER SECTIONSDATE JULY '23  
DESIGN KLD  
DRAWN JMM  
CHECK JTM  
JOB NO 12483  
SHEET No.  
8 OF 9

J:\12000S\12483 PEMEX FTG BLKHD &amp; E PIER\DRAWINGS\PERMIT\12483-0-P8.DWG





PROPOSED NEW PROTECTION MONOPILE ELEVATION  
SCALE: 3/32" = 1'-0"

j:\12000s\12483 PEMEX FTG BLKHD & E PIER\DRAWINGS\PERMIT\12483-0-P9.DWG

KEVIN L. DROUET P.E.  
LA PE #113470

LANIER & ASSOCIATES  
CONSULTING ENGINEERS  
INCORPORATED

LA: EF-1120 TX: F-2981  
NEW ORLEANS • BEAUMONT • CORPUS CHRISTI • HOUSTON

DEER PARK REFINERY, LP  
DEER PARK TEXAS

BULKHEAD & FIREBOAT PIER  
REPAIR PROJECT  
NEW PROTECTIVE DOLPHIN ELEVATION

DATE JULY '23  
DESIGN KLD  
DRAWN JMM  
CHECK JTM  
JOB NO 12483  
SHEET No.  
9 OF 9

PRELIMINARY - FOR PERMIT PURPOSES ONLY

REV  
B