

SWG-2015-00175 Texas LNG Brownsville LLC
Waters adjacent to the Brownsville Ship Channel,
in Port Isabel, Cameron County, Texas.
Sheet 1 of 27.



-  Proposed Project Location
-  Cameron County Boundary



Figure 1-1
Project Location: Overview
Texas LNG Brownsville LLC
Texas LNG Project (SWG-2015-00175)



SWG-2015-00175 Texas LNG Brownsville LLC
Waters adjacent to the Brownsville Ship Channel,
in Port Isabel, Cameron County, Texas
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- Proposed Project Site
- Federal Land
- Brownsville Ship Channel

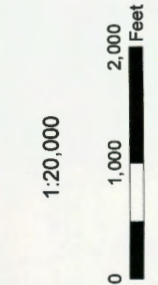
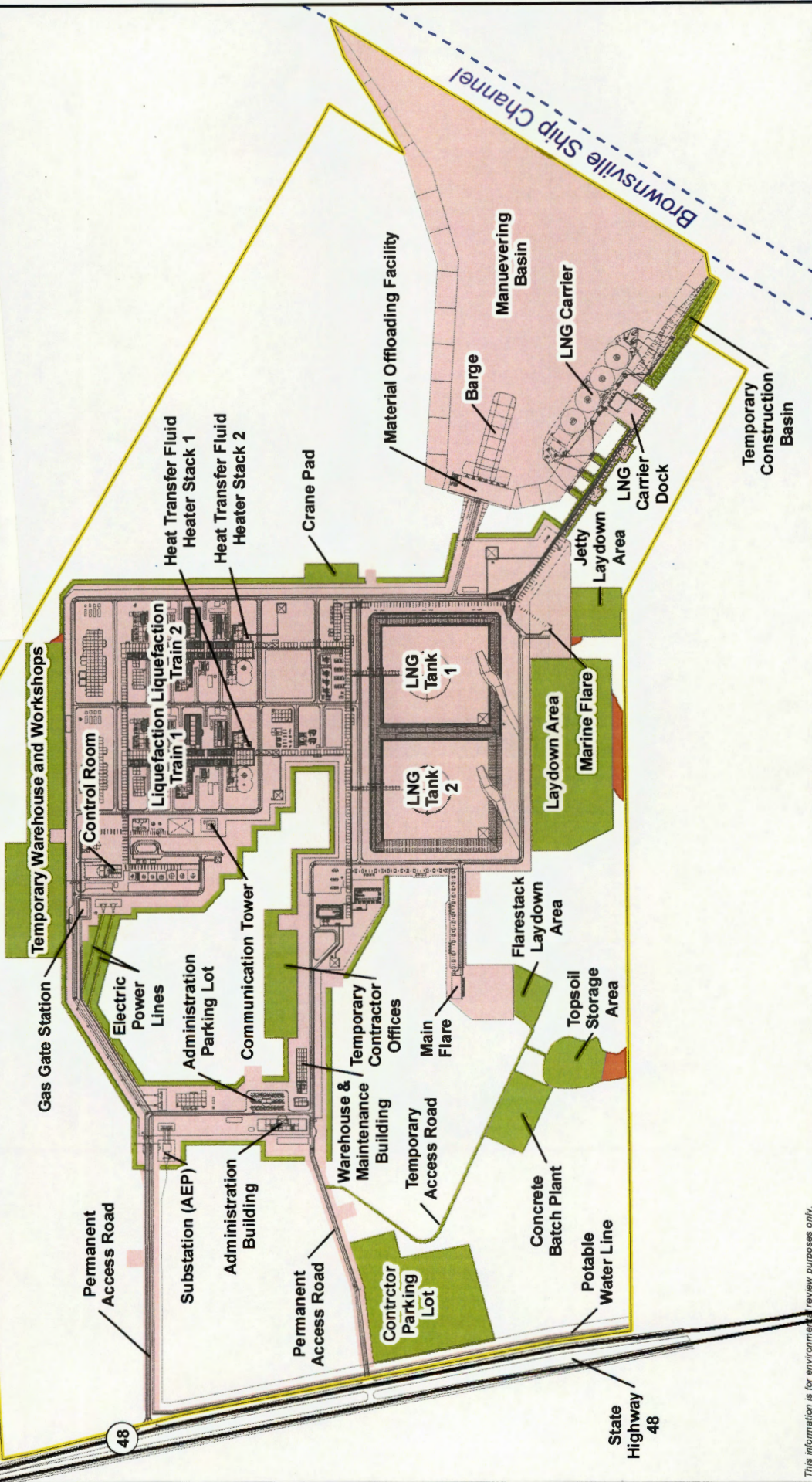


Figure 2-1
Project Location: Topo
Texas LNG Brownsville LLC
Texas LNG Project (SWG-2015-00175)



SWG-2015-00175 Texas LNG Brownsville LLC
Waters adjacent to the Brownsville Ship Channel,
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This information is for environmental review purposes only.

- Permanent Facility
- Temporary Workspace
- Borrow Area
- Project Site Boundary
- Project Facilities
- Brownsville Ship Channel



1:11,000

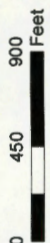


Figure 2.1-1

Terminal Facilities Overview

Texas LNG Brownsville LLC
Texas LNG Project (SWG-2015-00175)



DRAWN BY: 0239

SWG-2015-00175 Texas LNG Brownsville LLC
Waters adjacent to the Brownsville Ship Channel,
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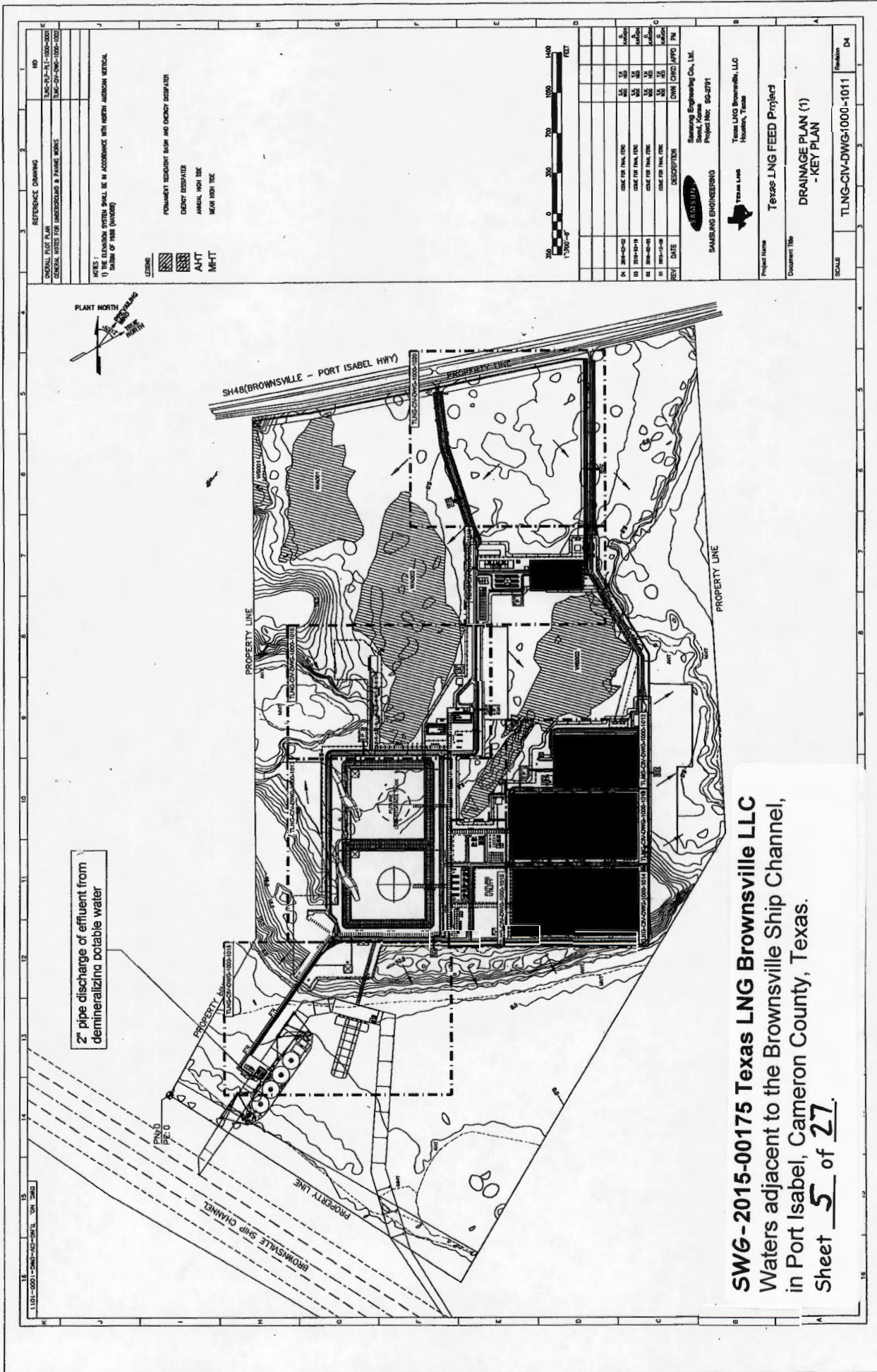


Figure 4-1
Waters of the United States
Texas LNG Brownsville LLC
Texas LNG Project (SWG-2015-00175)



DRAWN BY: 0239

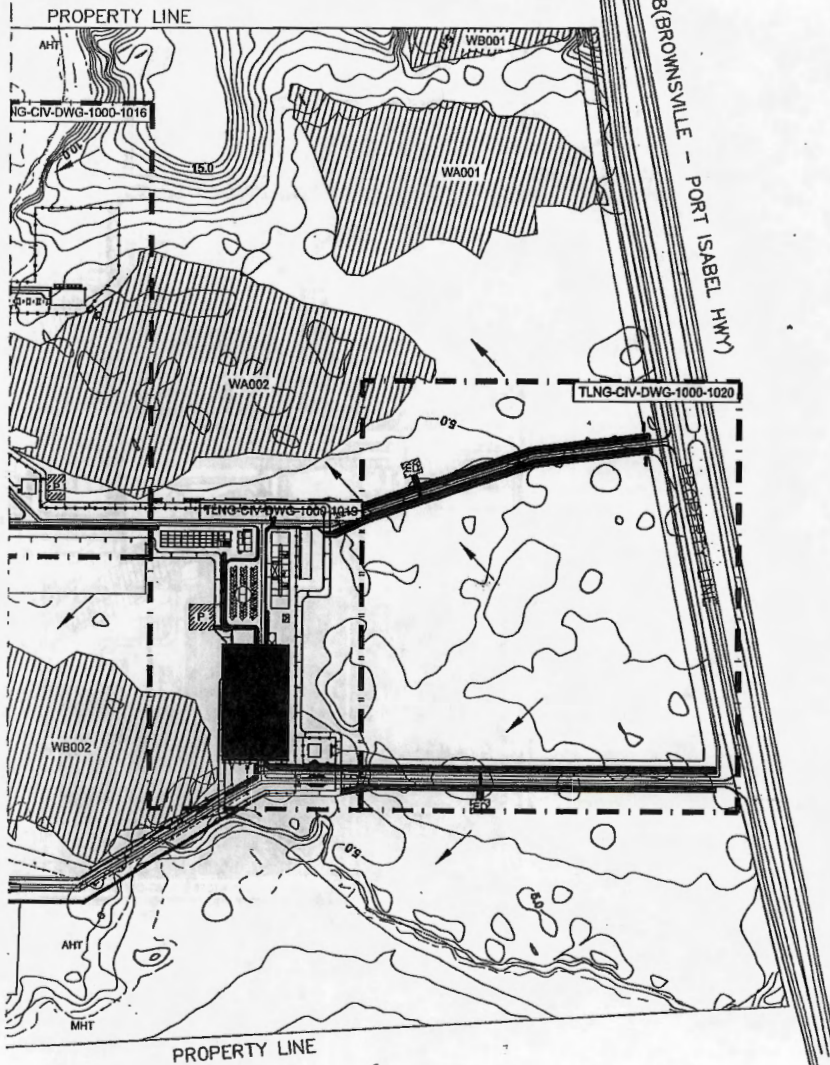
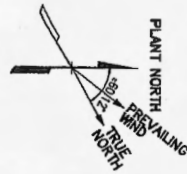
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SWG-2015-00175 Texas LNG Brownsville LLC
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OCT 13 2016

RIGHT



REFERENCE DRAWING

NO

OVERALL PLOT PLAN

TLNG-PLP-PLT-1000-0001

GENERAL NOTES FOR UNDERGROUND & PAVING WORKS

TLNG-CIV-DWG-1000-1002

NOTES:

- 1) THE ELEVATION SYSTEM SHALL BE IN ACCORDANCE WITH NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

LEGEND



PERMANENT SEDIMENT BASIN AND ENERGY DISSIPATER



ENERGY DISSIPATER

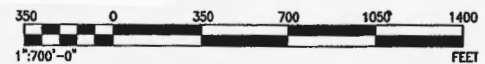
AHT

ANNUAL HIGH TIDE

MHT

MEAN HIGH TIDE

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Waters adjacent to the Brownsville Ship Channel,
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REV	DATE	DESCRIPTION	DWN	CHKD	APPD	PM
04	2016-03-02	ISSUE FOR FINAL FERC	S.K. WOO	Y.H. NEO		0. KARASHI
03	2016-02-10	ISSUE FOR FINAL FERC	S.K. WOO	Y.H. NEO		0. KARASHI
02	2016-02-05	ISSUE FOR FINAL FERC	S.K. WOO	Y.H. NEO		0. KARASHI
01	2015-12-09	ISSUE FOR FINAL FERC	S.K. WOO	Y.H. NEO		0. KARASHI

SAMSUNG

SAMSUNG ENGINEERING

Samsung Engineering Co., Ltd.
Seoul, Korea
Project No: SG-2781



TEXAS LNG

Texas LNG Brownsville, LLC
Houston, Texas

Project Name

Texas LNG FEED Project

Document Title

DRAINAGE PLAN (1)
- KEY PLAN

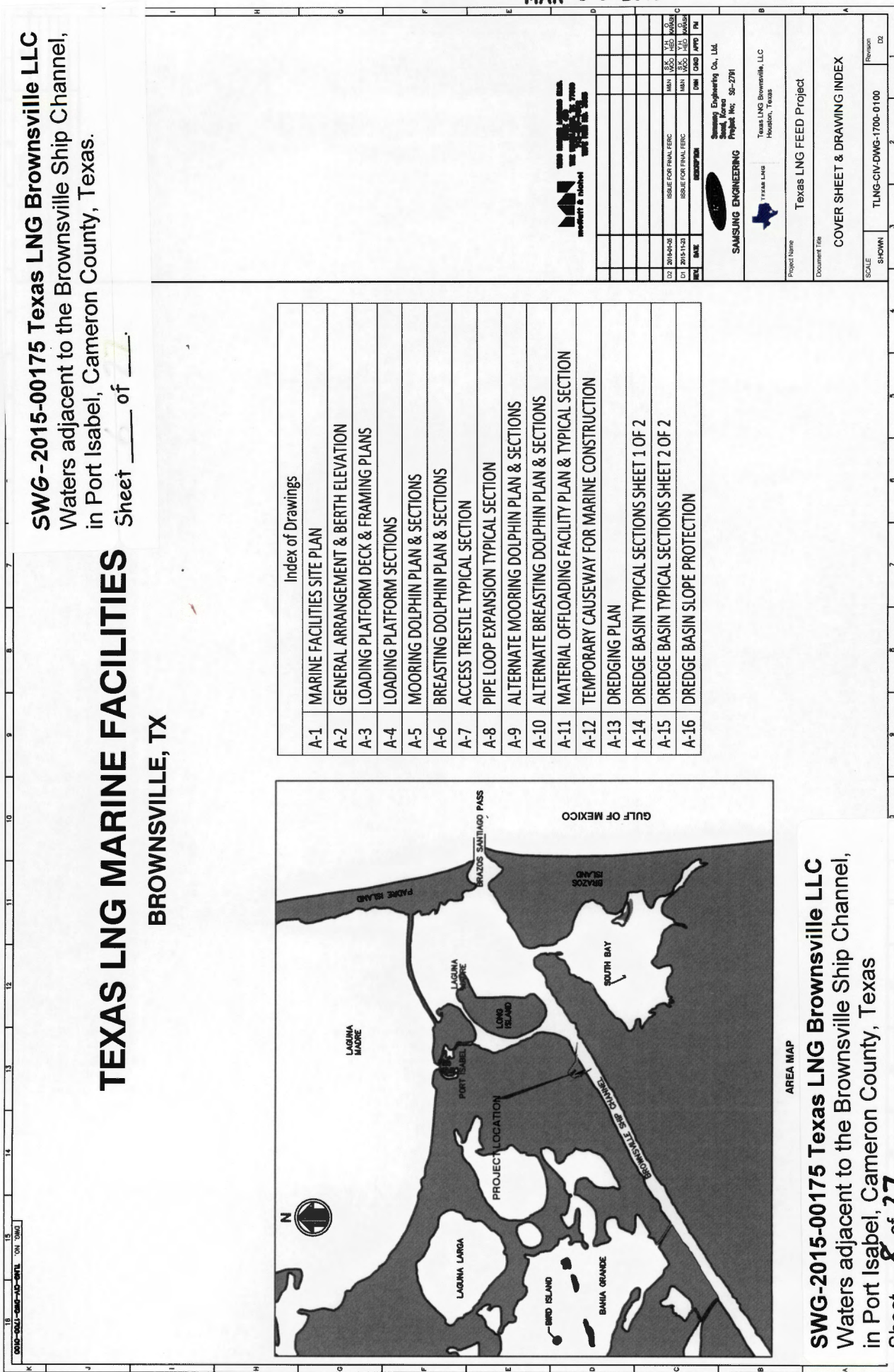
SCALE

TLNG-CIV-DWG-1000-1011

Revision

D4

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Waters adjacent to the Brownsville Ship Channel,
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Waters adjacent to the Brownsville Ship Channel,
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TEXAS LNG MARINE FACILITIES

BROWNSVILLE, TX

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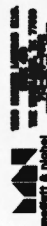
Index of Drawings	
A-1	MARINE FACILITIES SITE PLAN
A-2	GENERAL ARRANGEMENT & BERTH ELEVATION
A-3	LOADING PLATFORM DECK & FRAMING PLANS
A-4	LOADING PLATFORM SECTIONS
A-5	MOORING DOLPHIN PLAN & SECTIONS
A-6	BREASTING DOLPHIN PLAN & SECTIONS
A-7	ACCESS TRESTLE TYPICAL SECTION
A-8	PIPE LOOP EXPANSION TYPICAL SECTION
A-9	ALTERNATE MOORING DOLPHIN PLAN & SECTIONS
A-10	ALTERNATE BREASTING DOLPHIN PLAN & SECTIONS
A-11	MATERIAL OFFLOADING FACILITY PLAN & TYPICAL SECTION
A-12	TEMPORARY CAUSEWAY FOR MARINE CONSTRUCTION
A-13	DREDGING PLAN
A-14	DREDGE BASIN TYPICAL SECTIONS SHEET 1 OF 2
A-15	DREDGE BASIN TYPICAL SECTIONS SHEET 2 OF 2
A-16	DREDGE BASIN SLOPE PROTECTION

AREA MAP

SWG-2015-00175 Texas LNG Brownsville LLC
Waters adjacent to the Brownsville Ship Channel,
in Port Isabel, Cameron County, Texas

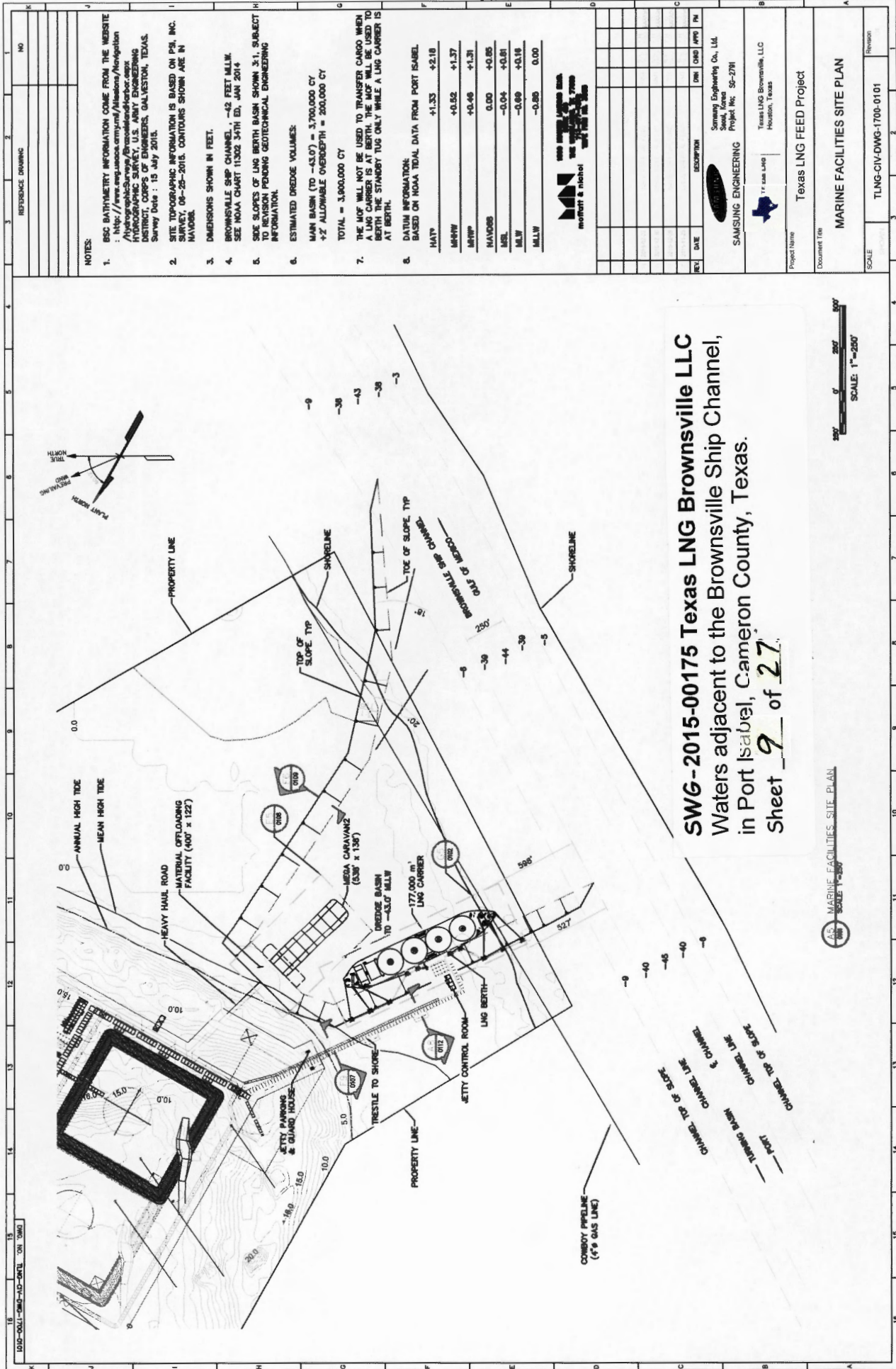
Sheet 8 of 27

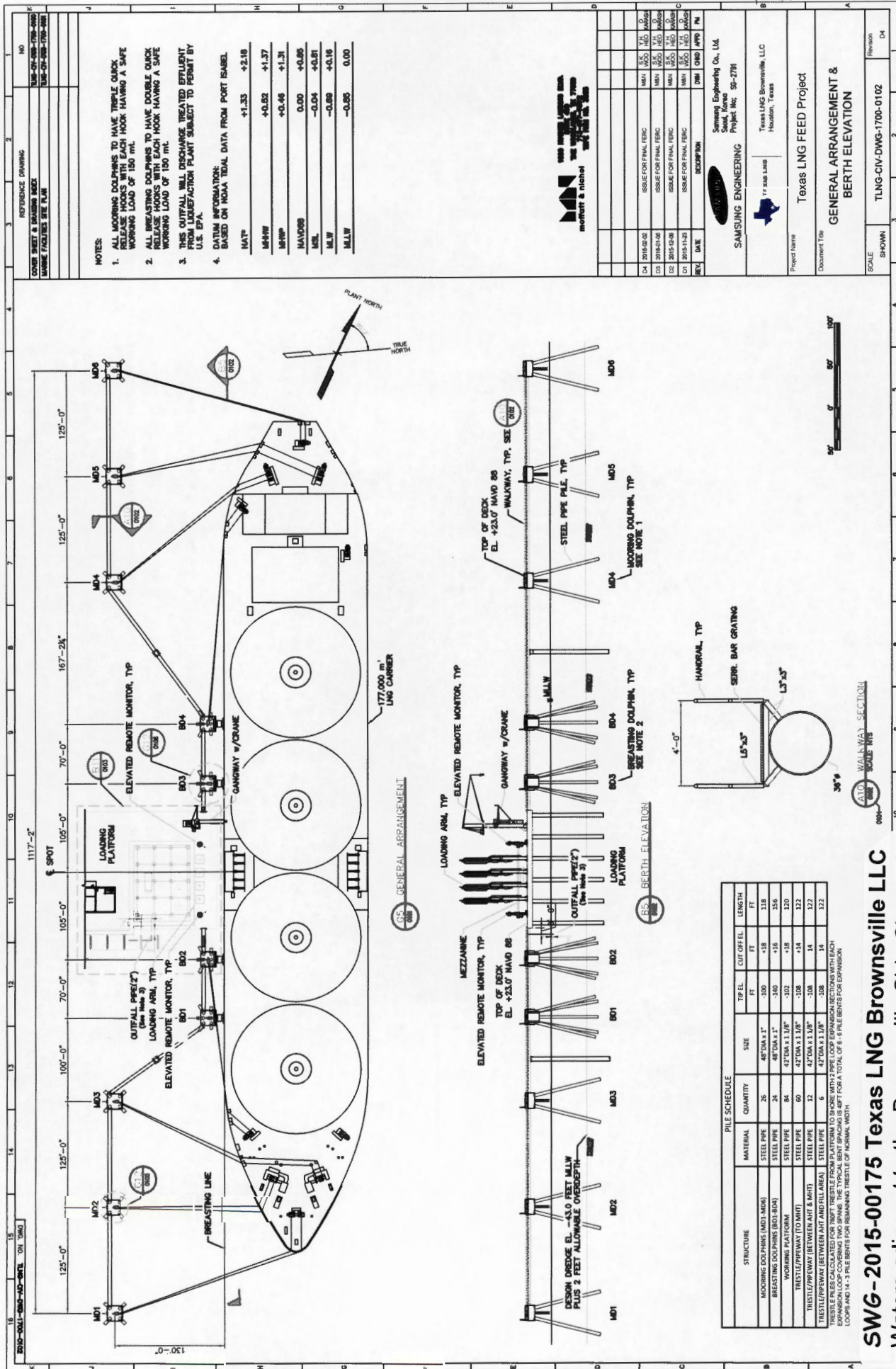
MAR 30 2016



PROJECT NAME	TEXAS LNG
PROJECT NO.	SP-2791
CLIENT	TEXAS LNG BROWNSVILLE, LLC
LOCATION	PORT ISABEL, TEXAS
DESIGNER	SAMSUNG ENGINEERING CO., LTD.
DATE	2015-11-02
SCALE	AS SHOWN
REVISION	D2

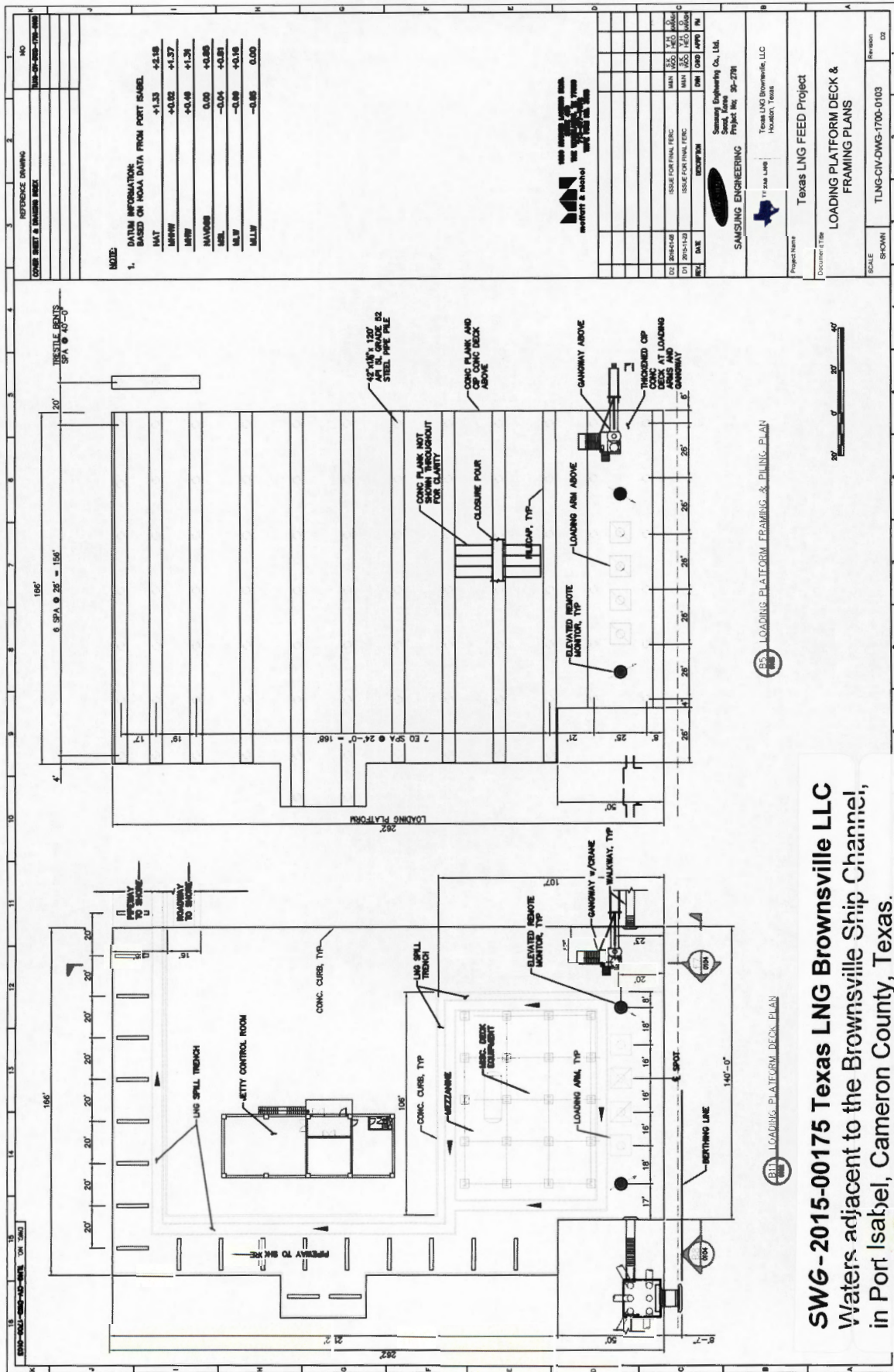
MAR 30 2016



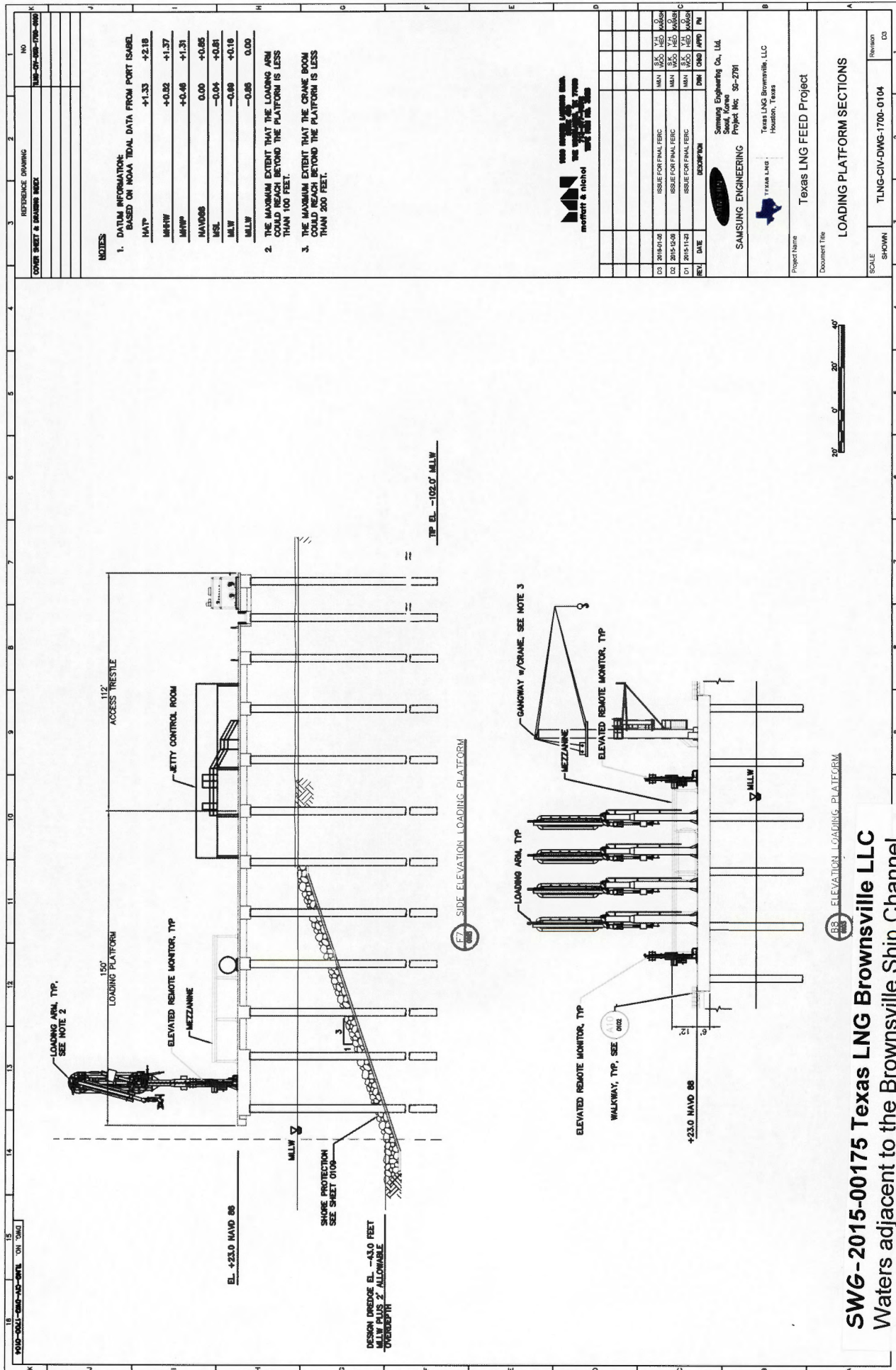


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Waters adjacent to the Brownsville Ship Channel,
in Port Isabel, Cameron County, Texas.
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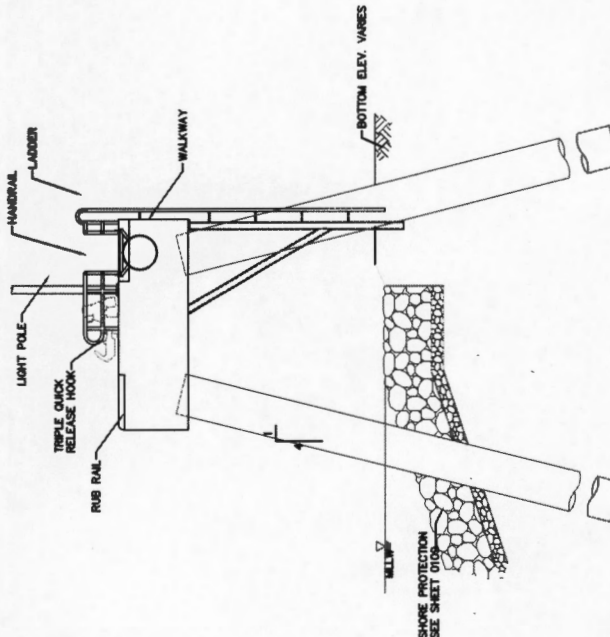
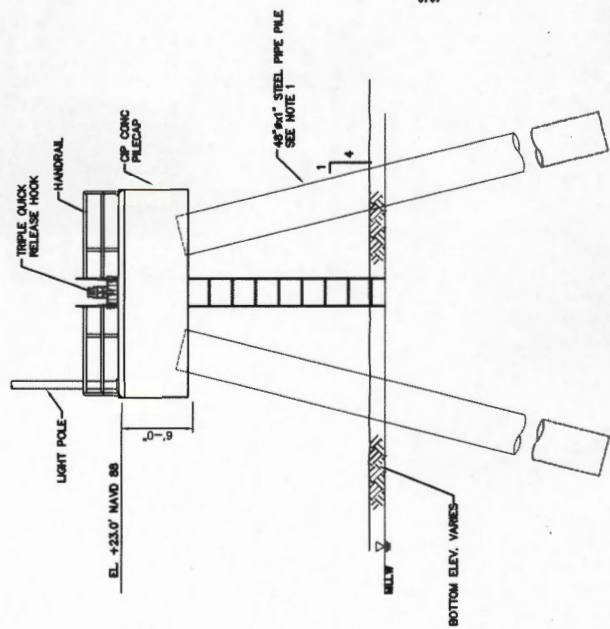
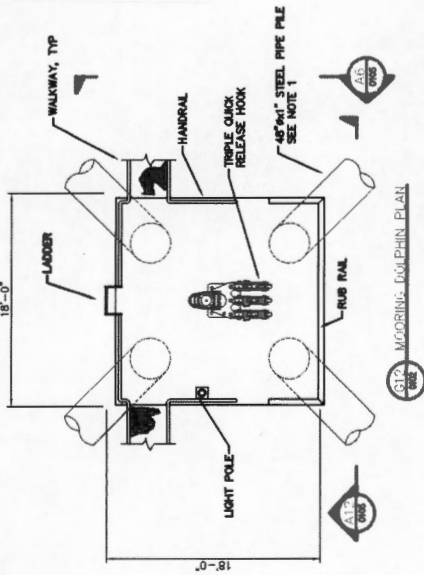
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Waters adjacent to the Brownsville Ship Channel,
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Waters adjacent to the Brownsville Ship Channel,
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TP -100.0' MLW
 0'-0' 5'-0' 10'-0'

SECTION A-A

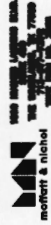
SECTION B-B

NOTES

1. STRUCTURE SHOWN ON SHEET 0110 IS ALTERNATE DESIGN. THIS SHEET IS PRIMARY DESIGN.

2. DATUM INFORMATION:
 BASED ON NOAA TIDAL DATA FROM PORT ISABEL

HAT	+1.33	+2.18
MSL	+0.00	+1.37
MHHW	+0.46	+1.31
MAY00S	0.00	+0.85
MST	-0.04	+0.81
MLW	-0.89	+0.18
MLLW	-0.85	0.00



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02	2015-04-26	ISABEL FOR FINAL PERC	MAN	WDS	WDS	WDS
01	2015-10-20	ISABEL FOR FINAL PERC	MAN	WDS	WDS	WDS

SAMSUNG ENGINEERING
 Samsung Engineering Co., Ltd.
 Seoul, Korea
 Project No: SP-2791

TEXAS LNG BROWNVILLE LLC
 Houston, Texas

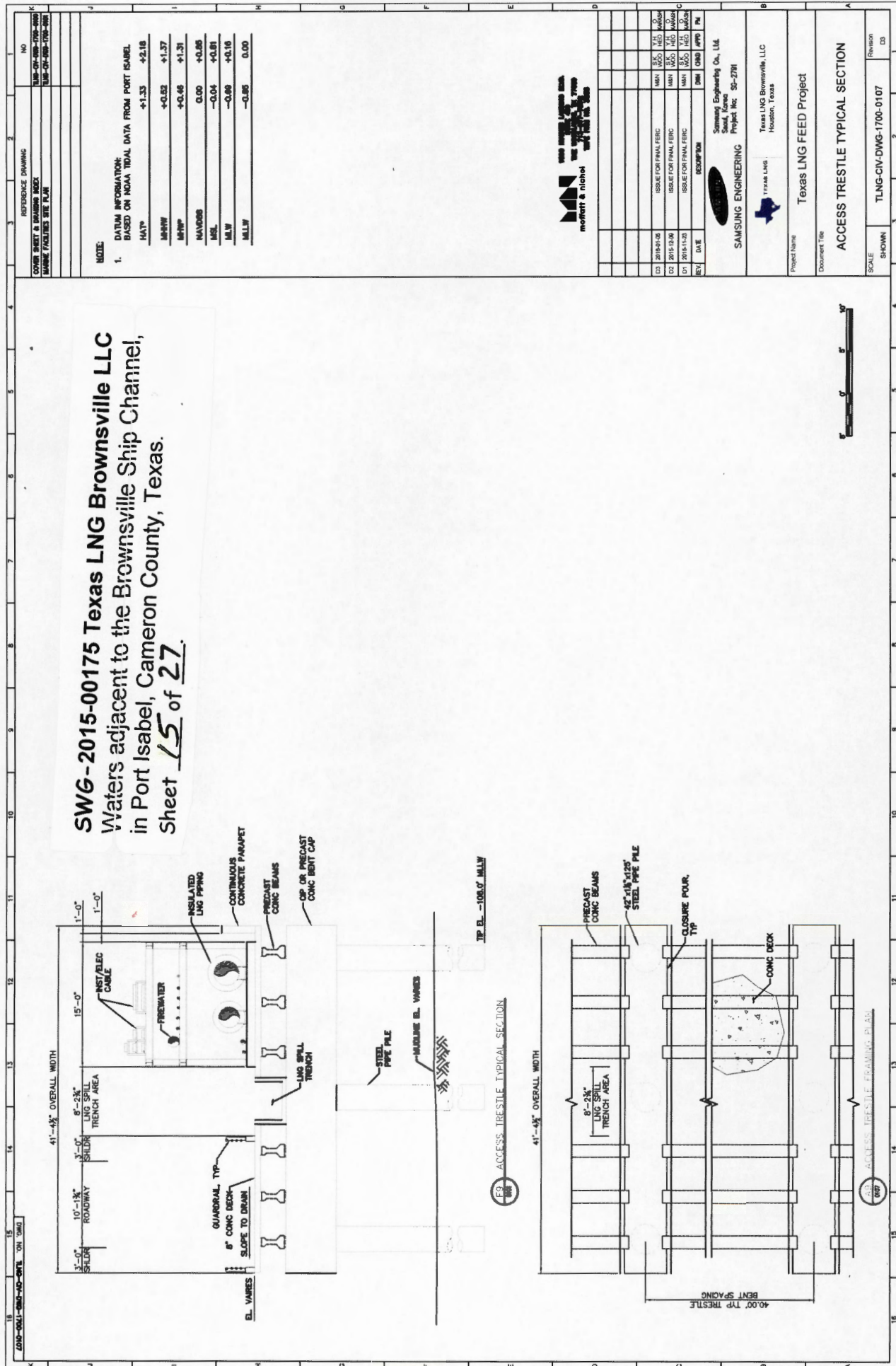
Project Name
Texas LNG Feed Project

Document Title
MOORING DOLPHIN PLAN & SECTIONS

SCALE
 SHOWN
 TLNG-CIV-DWG-1700-0105

Revision
 D2





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REFERENCE DRAWING		NO
CONV SHEET & DRAWING INDEX		15-01-000-170-000
MARINE FACILITIES SITE PLAN		15-01-000-170-000

NOTE:	
1.	DATUM INFORMATION: BASED ON NOAA TIDAL DATA FROM PORT ISABEL
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MHP	+0.46 +1.31
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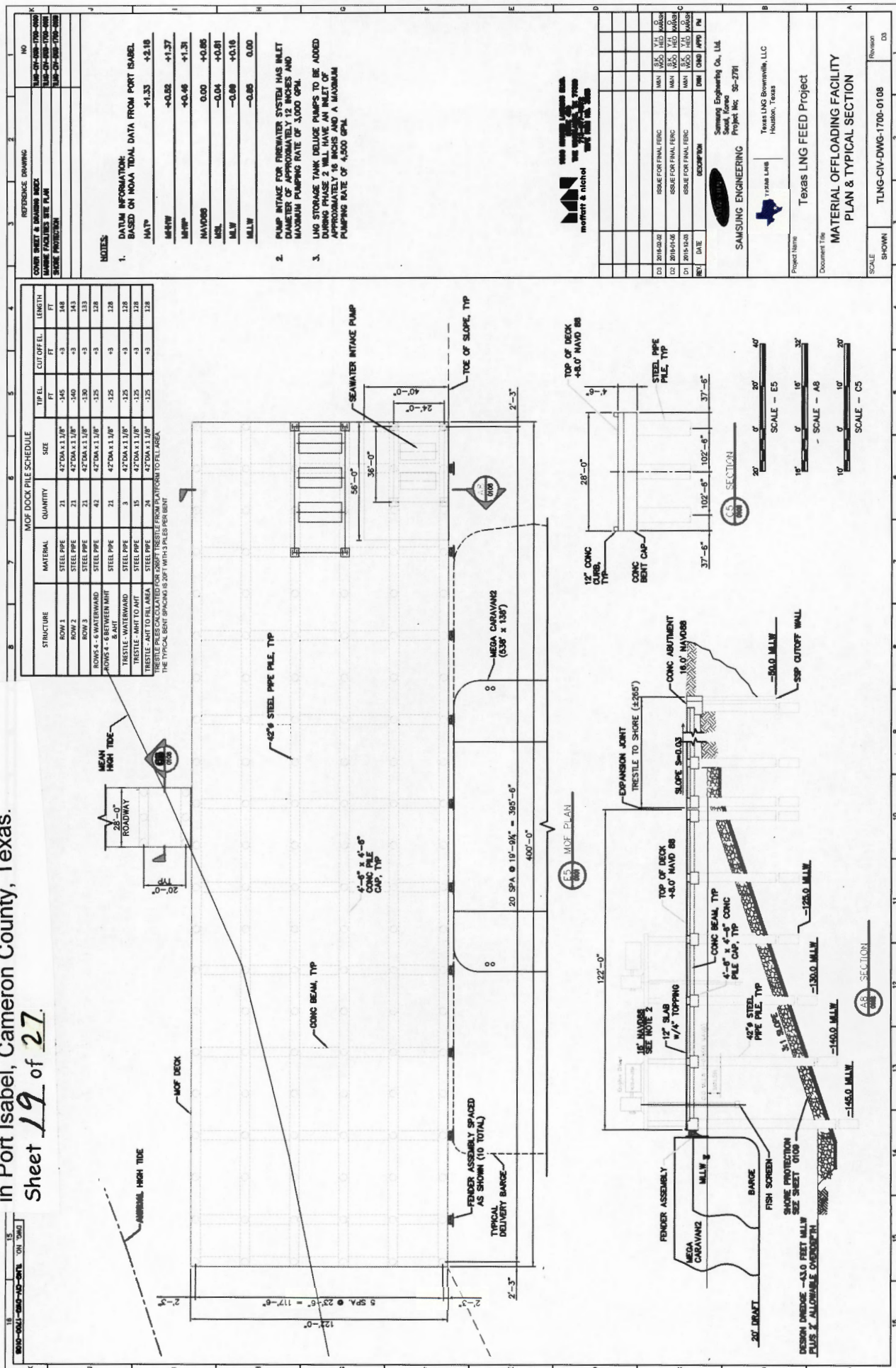
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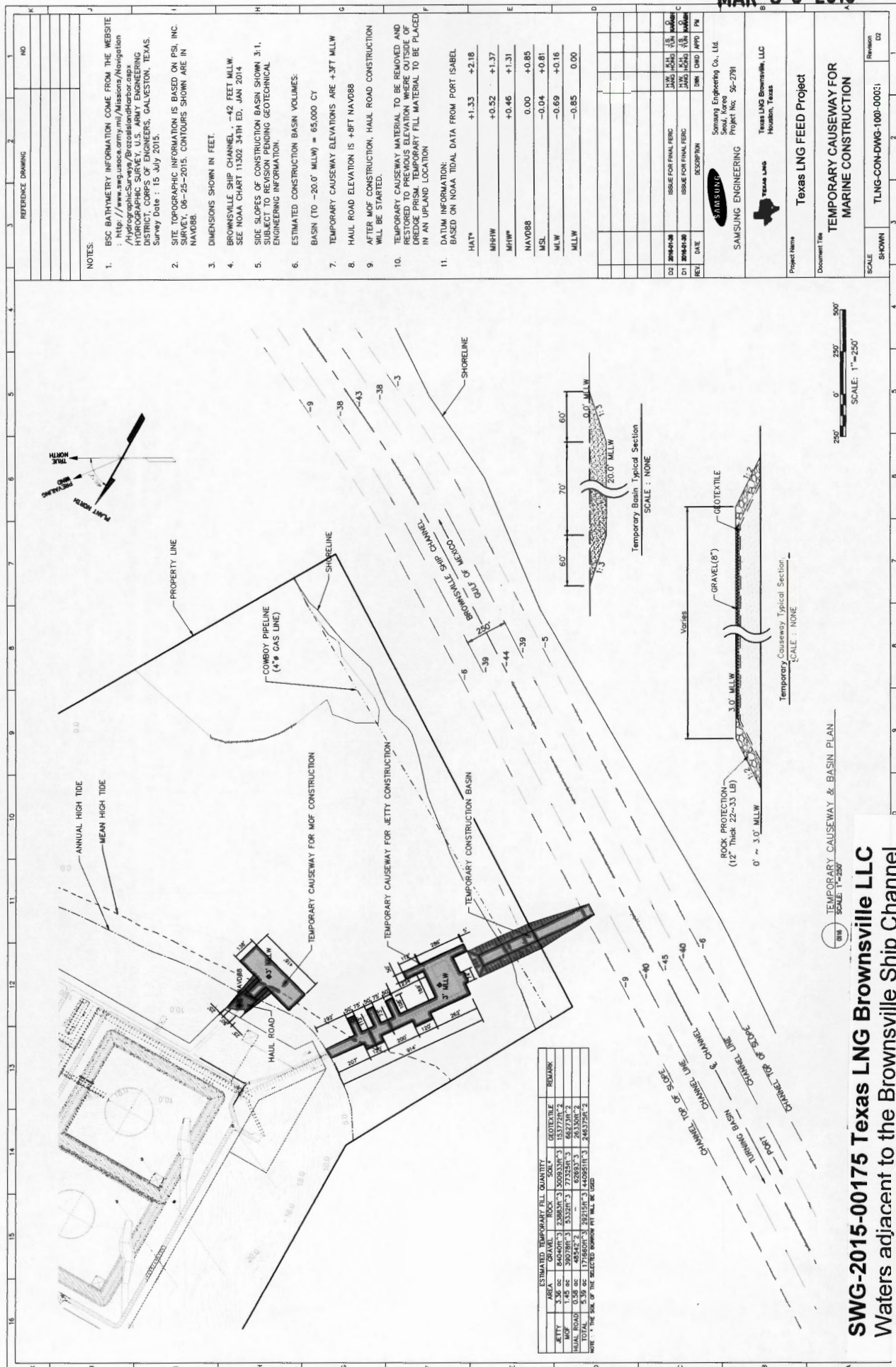
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Project Name		Texas LNG Brownsville, LLC
Project No.		SS-2791
Houston, Texas		

Texas LNG FEED Project	
ACCESS TRESTLE TYPICAL SECTION	
SCALE	SHOWN
TLNG-CIV-DWG-1700-0107	Revision
03	

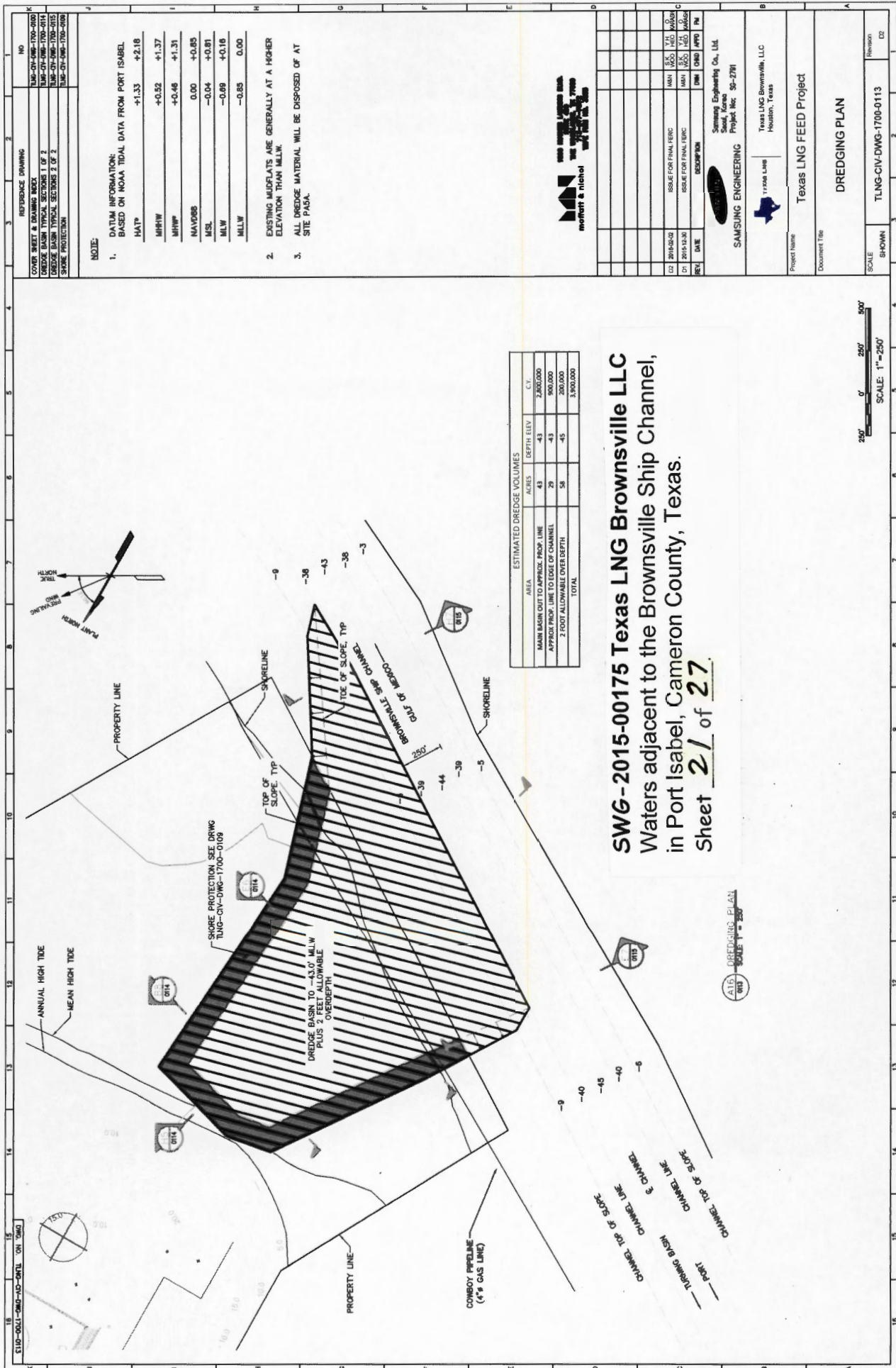
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Waters adjacent to the Brownsville Ship Channel,
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SWG-2015-00175 Texas LNG Brownsville LLC
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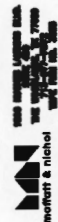


AREA	DEPTH	ELV	C.Y.
MAIN BASIN OUT TO APPROX. PROP. LINE	-43	-43	2,800,000
APPROX. PROP. LINE TO EDGE OF CHANNEL	-29	-43	900,000
2 FOOT ALLOWABLE OVER DEPTH	-58	-45	200,000
TOTAL			3,900,000

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NOTE:

- DATUM INFORMATION:
 BASED ON NOAA TIDAL DATA FROM PORT ISABEL
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 MHW +0.52 +1.37
 MHP +0.46 +1.31
 NAVD83 0.00 +0.85
 MSL -0.04 +0.81
 MLW -0.69 +0.18
 MLW 0.00
 2. EXISTING MARSHLANDS ARE GENERALLY AT A HIGHER ELEVATION THAN MSL.
 3. ALL DREDGE MATERIAL WILL BE DISPOSED OF AT SITE P-5A.



REV	DATE	DESCRIPTION	BY	CHKD	APPD	IN
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01	2015-02-02	ISSUE FOR FINAL PERIC	MAN	WOO	WOO	WOO

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 Samsung Engineering Co., Ltd.
 17708 LANE
 Houston, Texas 77058
 Project No. 50-2791

Texas LNG Brownsville, LLC
 Houston, Texas

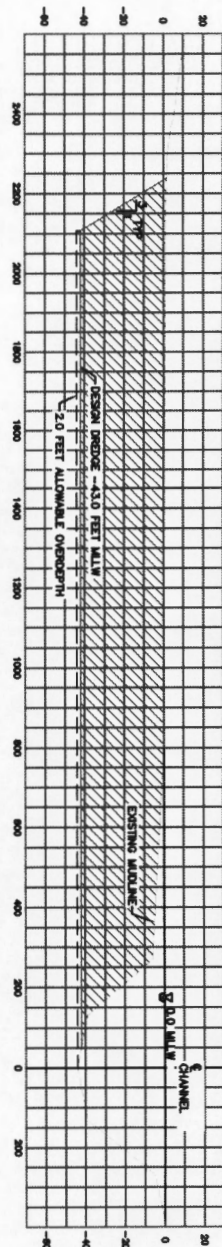
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 Revision: 02

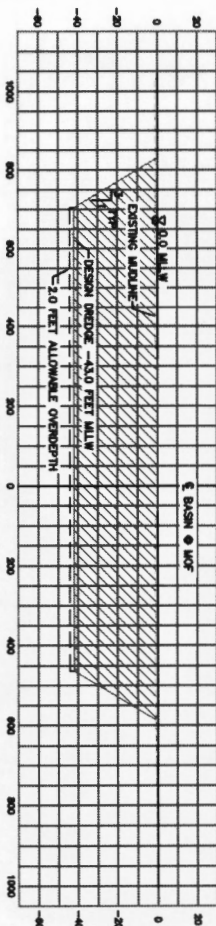


SWG-2015-00175 Texas LNG Brownsville LLC
Waters adjacent to the Brownsville Ship Channel,
in Port Isabel, Cameron County, Texas.
Sheet **22** of **27**.

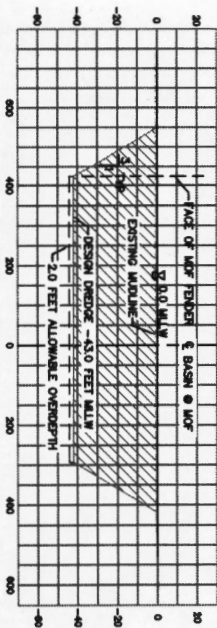
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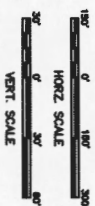
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DREDGE SECTION



B-B
DREDGE SECTION



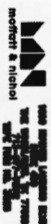
C-C
DREDGE SECTION



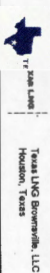
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2015-09-01	26
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NOTE:

1. DATUM INFORMATION:
 BASED ON NOAA TIDAL DATA FROM PORT ISABEL.
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 M.T.P. +0.82 +1.37
 M.T.P. +0.48 +1.31
 M.T.P. 0.00 +0.85
 M.T.P. -0.04 +0.81
 M.T.P. -0.69 +0.18
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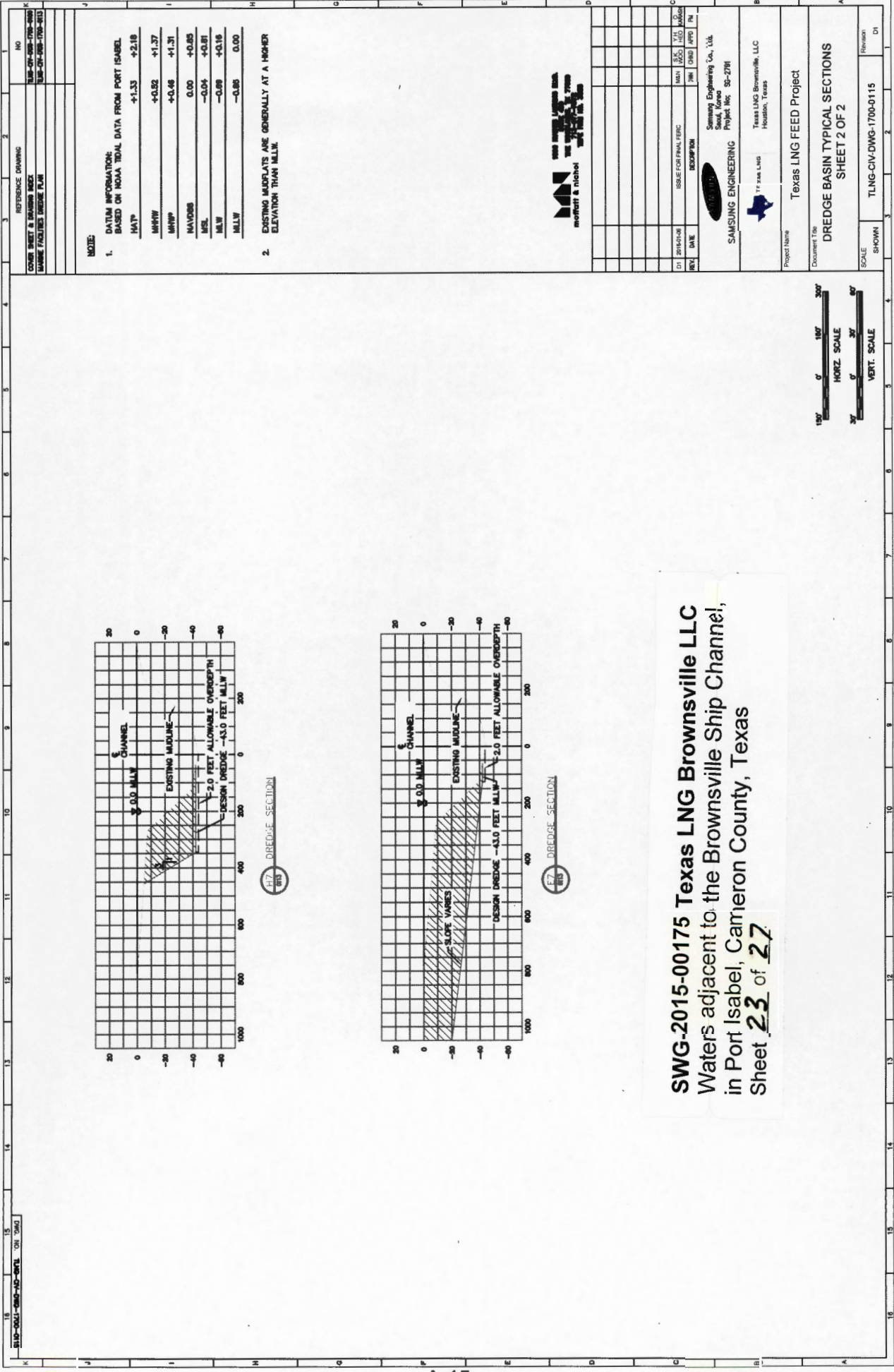


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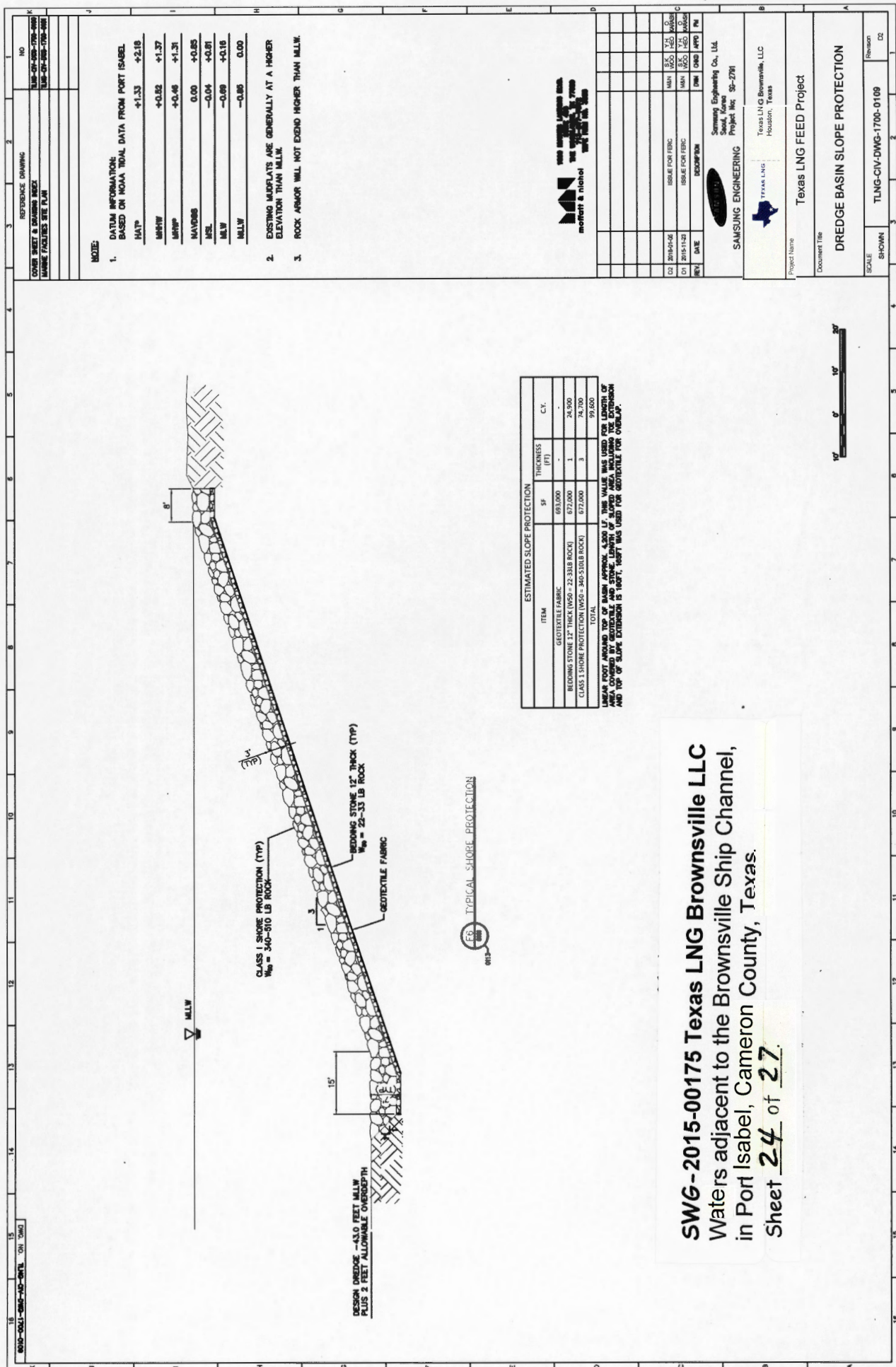


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MAR 3 0 2016



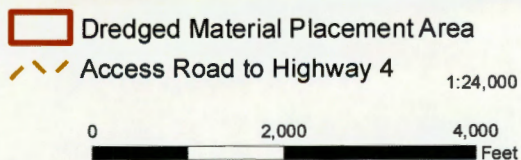
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Waters adjacent to the Brownsville Ship Channel,
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TEXAS LNG

Figure 2.2.5-1
Dredged Material Placement Area 5A Overview
Texas LNG Brownsville LLC
Texas LNG Project (SWG-2015-00175)



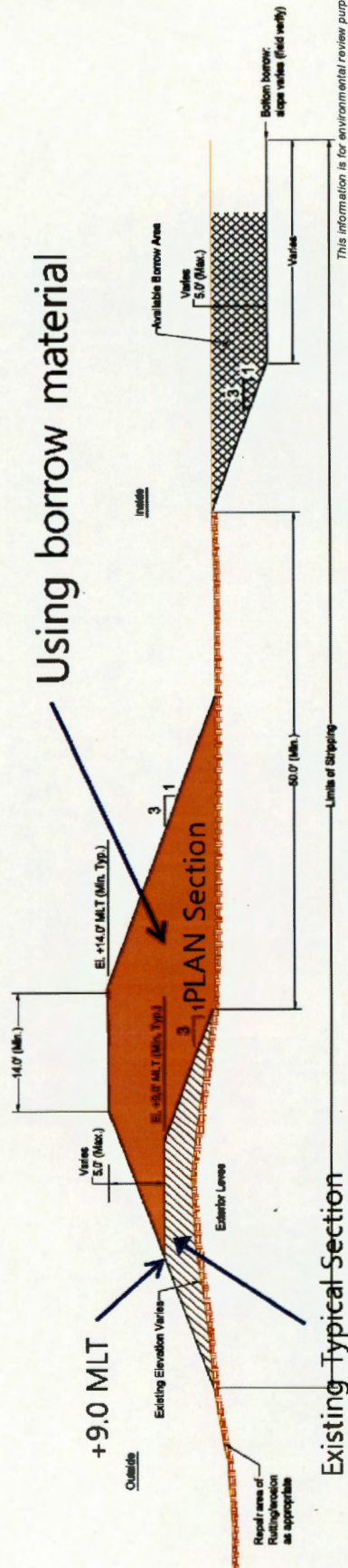
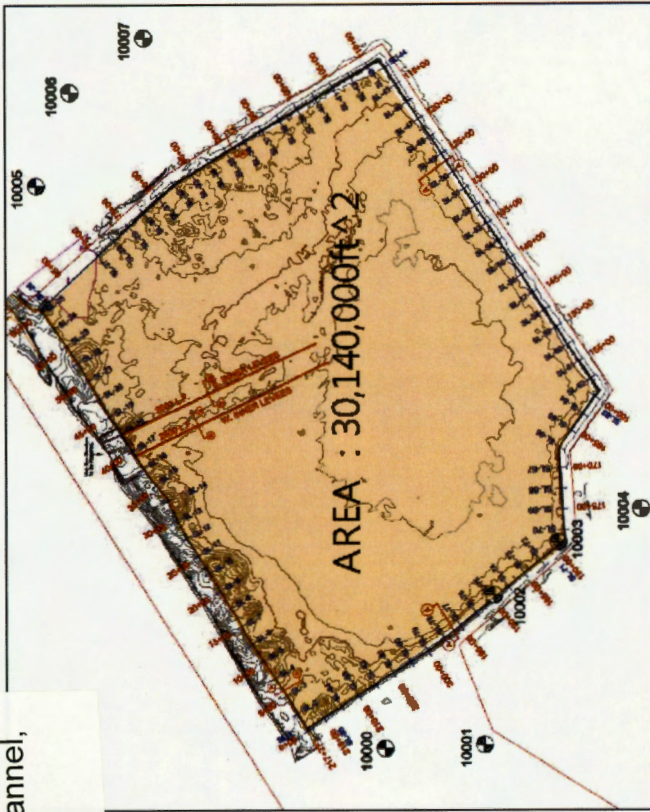
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PA 5A

AREA : 30,140,000ft²
Filling Volume

Raise	Area(ft ²)	Volume(CY)	Remark
2ft	30,140,000	2,232,592	
3ft	30,140,000	3,348,889	
4ft	30,140,000	4,465,185	13.0 MLT
5ft	30,140,000	5,581,481	

Minimum levees raise is 4ft(13.0 Mean Low Tide (MLT))



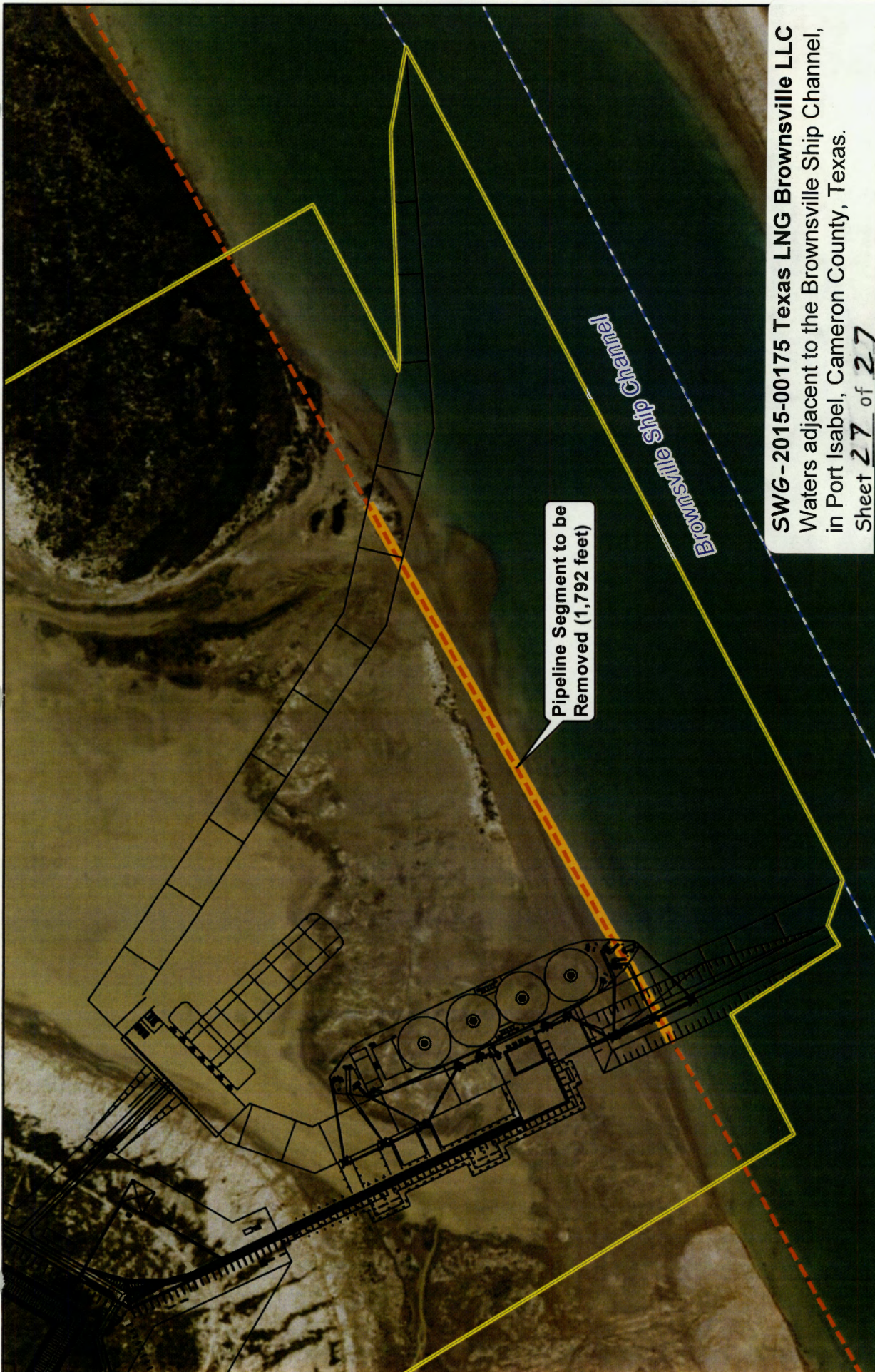
This information is for environmental review purposes only.

Legend



Figure 2.2.5-2
Dredged Material Placement Area Berm Cross-Section
Texas LNG Brownsville LLC
Texas LNG Project (SWG-2015-00175)





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Figure 2.2.3-1
Cowboy Pipeline Removal
 Texas LNG Brownsville LLC
 Texas LNG Project (SWG-2015-00175)

NATURAL RESOURCE GROUP
an ERM Group company

DRAWN BY: 0239

TEXAS LNG

SCALE: 1:4,800
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Project Site Boundary
 Project Facilities
 Cowboy Pipeline (Abandoned)
 Pipeline Segment to be Removed (1,792 feet)
 Brownsville Ship Channel

1:4,800
 0 200 400 Feet