

APPENDIX D

PAC REPORT

SCHEDULE

Regulation 8

Form

PRE-APPLICATION CONSULTATION REPORT

Marine (Scotland) Act 2010: Section 24

1. Proposed Licensable Marine Activity

Please describe below or, where there is insufficient space, in a document attached to this form the proposed licensable marine activity, including its location

The works are to comprise maintenance works on jetty structures at a former terminal site, to ensure safety of structures ahead of property transfer. The marine structures are located within the River Clyde, immediately south of the former Bowling Fuel Terminal, West Dumbartonshire. The site is located on the north bank of the river, approximately 0.3km to the west of Bowling village and 4km to the south east of Dumbarton.

2. Applicant Details

Title Initials Surname

Mr	JP	Hadwen
----	----	--------

Trading Title
(if appropriate)

Esso Petroleum Company, Limited

Address

ExxonMobil House, Ermyn Way, Leatherhead, KT22 8UX

Name of contact
(if different)

Position within Company
(if appropriate)

Telephone No.
(inc. dialing code)

[Redacted]

Fax No.
(inc. dialing code)

Status: This is the original version (as it was originally made). This item of legislation is currently only available in its original format.

Company Registration No.

00026538

Email

james.p.hadwen@exxonmobil.com

Is this prospective applicant the proposed licensee?

YES

NO

If NO, please complete Section 3 below.

3. Proposed Licensee Details

Title

Initials

Surname

--	--	--

Trading Title
(if appropriate)

--

Address

--

Name of contact
(if different)

--

Position within Company
(if appropriate)

--

Telephone No.
(inc. dialing code)

--

Fax No.
(inc. dialing code)

--

Company Registration No.

--

Email

--

Status: This is the original version (as it was originally made). This item of legislation is currently only available in its original format.

4. Pre-application Consultation Event

Please describe below or, where there is insufficient space, in a document attached to this form the pre-application consultation event

The Pre-application Consultation (PAC) event was publicly advertised in the Glasgow Times (on 22nd May 2023) (Attachment A). All organisations listed in Regulation 6(2) of The Marine Licensing (Pre-application Consultation) (Scotland) Regulations 2013 were given notification of the event on 17th May 2022. The event was scheduled on July 5th 2023 at the Abbotsford Hotel (Leven Suite), Stirling Road, Dumbarton, G82 2PJ between 08:00 and 18:00. Any person wishing to participate in the pre-application consultation for the proposed development could subscribe by contacting esso@bigpartnership.co.uk. The invitation to participate also included a postal address for individuals without internet access. No parties attended the event. A copy of the public notice is provided within Appendix A

5. Information provided by the Prospective Applicant at the Pre-application Consultation Event

Please provide below or, where there is insufficient space, in a document attached to this form details of any information provided by the prospective applicant for a marine licence at the pre-application consultation event

The drawings provided at the PAC are included in Appendix B

6. Information received by the Prospective Applicant at the Pre-application Consultation Event

Please provide below or, where there is insufficient space, in a document attached to this form details of any comments and objections received by the prospective applicant for a marine licence at the pre-application consultation event

Comments received from consultees in response to notification of the PAC is provided within Appendix C.

7. Amendments made, or to be made, to the Application for a Marine Licence by the Prospective Applicant following their Consideration of Comments and/or Objections received at the Pre-application Consultation Event

Where any amendments are made, or are to be made, by the prospective applicant for a marine licence to the marine licence application as a direct result of their consideration of comments and/or objections received at the pre-application consultation event, please provide below or, where there is insufficient space, in a document attached to this form details of such amendments

No amendments are required

Status: This is the original version (as it was originally made). This item of legislation is currently only available in its original format.

8. Explanation of Approach taken by the Prospective Applicant where, following Relevant Comments and/or Objections being received by the Prospective Applicant at the Pre-application Consultation Event, no Relevant Amendment is made to the Application for a Marine Licence

Where, following comments and/or objections having been received by the prospective applicant for a marine licence at the pre-application consultation event, no relevant amendment is made to the application for a marine licence by the prospective applicant, then please provide below or, where there is insufficient space, in a document attached to this form an explanation for the approach taken

No amendments are required.

CERTIFICATION	
Insert name	Mr J P Hadwen
Insert Address	ExxonMobil House, Ermyn Way
Town	Leatherhead
County	
Postcode	KT22 8UX
I certify that I have complied with the legislative requirements relating to pre-application consultation and that the pre-application consultation has been undertaken in accordance with the statutory requirements.	
Signature	[Redacted]
Date	03 August 2023

Appendix A - Public Notice



GOLDSON COULD MISS EURO TIES

CELTIC STAR EYES UP GOAL RECORD



Monday May 22, 2023

GlasgowTimes

90p

NOBODY KNOWS OUR CITY BETTER

10 HURT IN BUS CRASH



PICTURE: NETWORK RAIL



EXCLUSIVE

Man refuses to pay full council tax bill due to new bin system



EXCLUSIVE

Teachers launch grief support group after baby heartbreak

LATE DRAMA AS GLASGOW CITY CLINCH LEAGUE TITLE



Glasgow Evening Times Classified

FOR LOCAL SALE & SERVICES >>>

www.eveningtimes.co.uk

announcements@heraldandtimes.co.uk

MOTORS: 0141 302 7373
PROPERTY: 0141 302 7373

HOME SERVICES: 0141 302 7373
RECRUITMENT: 0141 302 7373

BIRTHS, DEATHS, MARRIAGES: 0141 302 6000
CALL US MON - FRI 9am-5pm

Home Services

Aerial & Satellite Services

BEST TV PICTURE GUARANTEED & INSTALLED TODAY!
Freeview • TV Wall Mounting • Sky/Freesat

FAST LOW COST LOCAL TRUSTED FREE ESTIMATES FULLY INSURED

0141 648 7567 | 07700 178 564
GLASGOW AERIAL & SATELLITE

YOUR GUTTERS CLEANED & REPAIRED TODAY!
Guaranteed To Turn Up on Time & No Mess

FAST LOW COST LOCAL TRUSTED FREE ESTIMATES FULLY INSURED

0800 001 4003 | 07482 856 248
GUTTER GUYS

Bedrooms

Double Divan Bed
Brand new, with faux leather headboard, deep royal orthopaedic mattress & base.
Cost £399, will accept £180.

Double Memory Foam & Ortho Spring Mattress
Cost £450, will accept £120.
Can Deliver 07501150022

General Hire

Van & Driver Removals
Single items 2 Men Available • House & Office Removals
House & Office Clearances • Rapid Rubbish Removals
Tel: 07919 654569

Rubbish Clearance Services

SOS RUBBISH
GARDEN / OFFICE EQUIP /
HOUSE CLEARANCE & ANYTHING YOU WANT RID OF
0141 563 2947 • 07763 573 831

Exchange and Mart
www.exchangeandmart.co.uk

Travel Services

TRAVEL INSURANCE

More than 250,000 reviews on Trustpilot.
...Just saying

Staysure™ Call FREE 7 days a week
0800 069 6167
staysure.co.uk

It's not just travel insurance, it's travel reassurance!

★ Trustpilot Over 50,000 reviews
defaqto EXPERT RATED 2014-2022

Call us FREE!
0800 804 8184
avanti.co.uk

avanti Travel Insurance

For COVID-19 cover, customers should be fully vaccinated. Terms, conditions and exclusions apply. Cover excludes any destinations restricted by the FCDO.



TIMES PAST Find out about historical photographs available for home or office from the archives of Evening Times, The Herald and The Herald on Sunday.
T. 0141 302 6210
www.thepicturedesk.co.uk

Motors Trade



USED CARS IN AIRDRIE, LANARKSHIRE

Welcome to Drumgray Vehicles, We are a Family run Business with over 20 years experience in the retail motor trade, All our vehicles are handpicked and professionally prepared on site, we believe our range of vehicles are some of the most competitively priced around and we pride ourselves on the quality of vehicle we sell and present to all our customers. To ensure piece of mind all our Vehicles come HPI checked and have a Dealer Warranty with also the option to extend the Warranty with an Award winning Warranty Company, We can also offer a 5 day drive away insurance at £15.00 in conjunction with HPI Driveaway, (T & C Apply)

Unit 1 Block 1, Chapelhall Industrial Estate
Airdrie, Lanarkshire, ML6 8QH
01236 771954 | 01236 793476 | sales@dvsscotland.co.uk

LOCAL LISTINGS PUBLIC NOTICES

To advertise telephone: **0141 302 6000**
or email: announcements@heraldandtimes.co.uk

Planning | Traffic & Roads | Goods Vehicle Licensing | Statutory Alcohol & Licensing | Probate & Trustee | Contract & Tender | Other

PLANNING

MARINE (SCOTLAND) ACT 2010, PART 4 MARINE LICENSING Pre Application Consultation Event

Maintenance of Marine Structures, Former Bowling Terminal, Bowling, West Dunbartonshire.

A public consultation event is to be held on July 5th 2023 at the Abbotsford Hotel (Leven Suite), Stirling Road, Dumbarton, G82 2PJ between 08:00 and 18:00.

The event relates to an application for a Marine Scotland licence for planned maintenance works, on the marine structures at the former Bowling Terminal. It will allow attendees to consider and comment on the proposed works, which predominantly involve the removal of redundant furniture and the installation of signage, with some limited engineering works.

Further details on the event or the proposed works may be obtained by contacting 0131 557 5252.

For interested parties who are unable to attend, comments may be made via email or post to the following by July 5th 2023:
esso@bigpartnership.co.uk
Big Partnership (Bowling), 4th floor, Venue Studios, 21 Calton Rd, Edinburgh EH8 8DL.

All comments received will be submitted with the subsequent Marine Scotland licence application. It should also be noted that comments made are not representations to Marine Scotland. There will be an opportunity for representations to be made to Marine Scotland-Licensing Operations Team following the licence application.

Appendix B - Information provided at the PAC



LEGEND

- SITE BOUNDARY
- - - NAVIGATION CHANNEL. DETAILS TAKEN FROM THE ADMIRALTY CHART SCOTLAND WEST COAST RIVER CLYDE

TENDER

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.

Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

Ci

Demolition

Di Working alongside on operational navigation channel.

Rev.	Date	Description	App'd
A	31-01-19	For Comment	DFM

ESSO PETROLEUM CO. LTD

**BOWLING TERMINAL
SITE BOUNDARY**

GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasfraenkel.com
www.nirasfraenkel.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-000 Rev
A



© 2018 Microsoft Corporation © 2018 DigitalGlobe © CNES (2018) Distribution Airbus DS

Berthing Dolphins

Item	Reference
Westfield Berthing Dolphins	BD4
Westfield Jetty Head	JH2
West End Berthing Dolphins	BD1, BD2
West End Jetty Head	JH1

Mooring Dolphins

Item	Reference
Milton Island Mooring Dolphins	MD1, MD2, MD3
Westfield Mooring Dolphins	MD6, MD8, MD14
Westfield Mooring Dolphin	MD8
Westfield Mooring Dolphin	MD14
Quay wall Mooring Dolphins	MD4, MD5, MD7, MD9, MD10, MD11, MD12, MD13

Jetty Structures

Item	Reference
Basin Jetty	J1

Access Structures

Item	Reference
Westfield West Access Structure	JHA2 - 1 and 2
Westfield Jetty Head Walkway	JHW2 - 1 and 2
West End Access Support Structures	SS1, SS2
Westfield Mooring Dolphin Access Structures	MDA6, MDA8, MDA14

Quay Structures

Item	Reference
Westfield Quay Wall	QW1
Eastfield Quay Wall	QW2

Revetment Structures

Item	Reference
Westfield Revetment	R1
Basin Revetment	R2

Legend

- A - Access
- BD - Berthing Dolphin
- J - Jetty
- JH - Jetty Head
- JHA - Jetty Head Access
- QW - Quay Wall
- R - Revetment
- SS - Support Structure
- JHW - Jetty Head Walkway

Note

Westfield Quay Wall (QW1) and Revetment (R1) are not included in the scope of making safe works.

TENDER

Rev.	Date	Description	App'd
A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM

ESSO PETROLEUM CO. LTD

**BOWLING TERMINAL
GENERAL ARRANGEMENT**

NIRAS
GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasfrankenl.com
www.nirasfrankenl.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-001 Rev
A

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.



Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

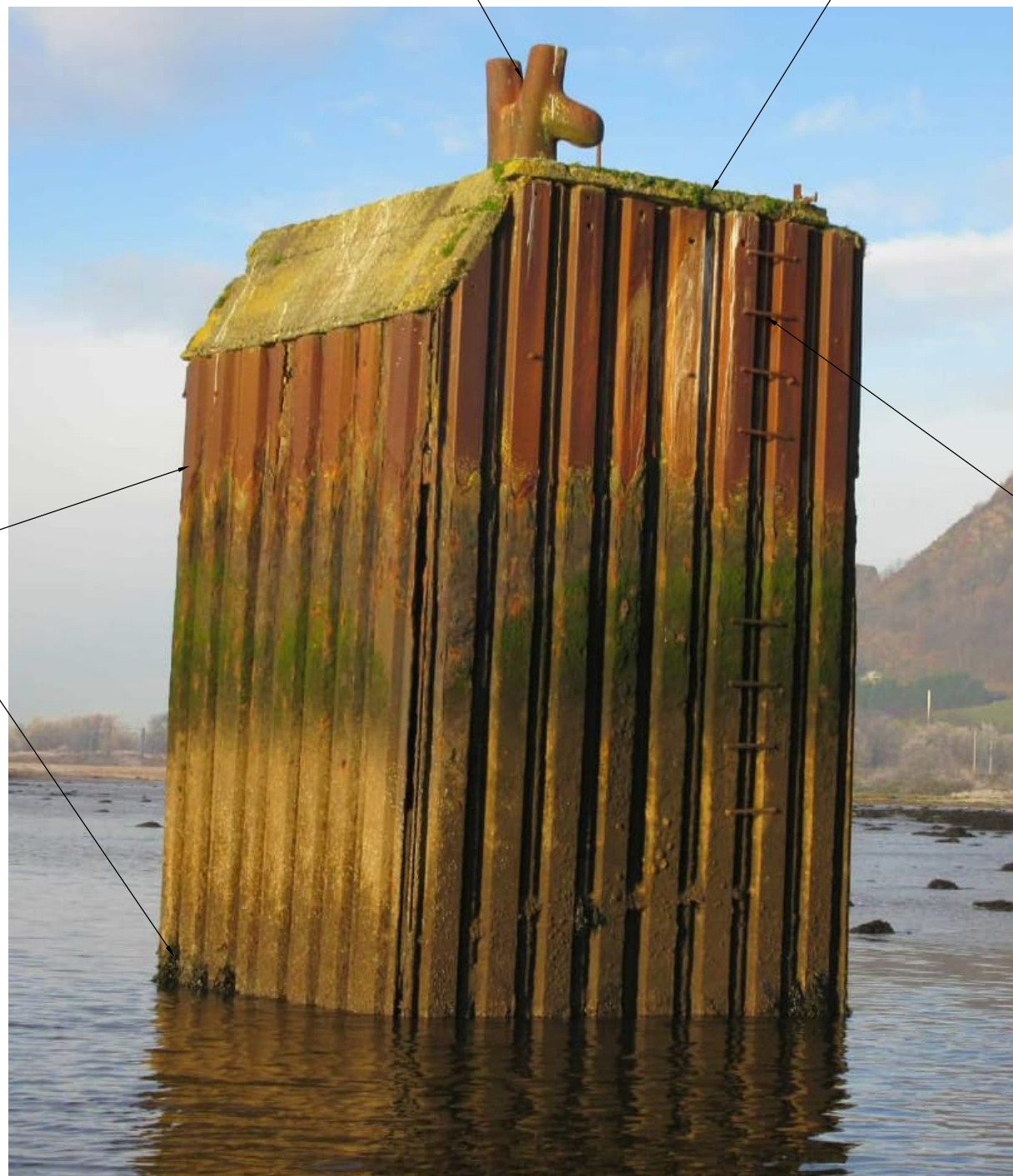
Demolition

- di Contractor to take caution when removing furniture and installing strapping system to ensure the existing structure will not be loaded in a manner to cause instability.
- dii Contractor to check the marine structure before commencing work to identify any loose objects and to incorporate them in the methodology of the works.
- diii Water depth at low tide is shallow and consideration to tide levels should be taken during the works.



MD1A02 - REMOVE BOLLARD (1No.) AND GRIND DOWN BOLTS

MD1A01 - INSTALL SIGN TYPE A ON EACH OF THE FOUR SIDES. FOR SIGN FIXING REFER TO DRGS 5427-035 & 036



MD1A03 - INSTALL STRAPPING SYSTEM. FOR STRAPPING SYSTEM DETAILS REFER TO DRG 5427-032

MD1A04 - REMOVE LADDER RUNGS

MOORING DOLPHIN 1 (MD1)

TENDER

A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM
Rev.	Date	Description	App'd

ESSO PETROLEUM CO. LTD

**BOWLING TERMINAL
MOORING DOLPHIN 1
OPTION 1**


NIRAS GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasfraenkel.com
www.nirasfraenkel.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-002 Rev
A

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.

 Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

di

Demolition

di Contractor to take caution when removing furniture and installing strapping system to ensure the existing structure will not be loaded in a manner to cause instability.

dii Contractor to check the marine structure before commencing work to identify any loose objects and to incorporate them in the methodology of the works.

diii Water depth at low tide is shallow and consideration to tide levels should be taken during the works.



MD2A02 - REMOVE BOLLARD (1No.) AND GRIND DOWN BOLTS

MD2A01 - INSTALL SIGN TYPE A ON EACH OF THE FOUR SIDES. FOR SIGN FIXINGS REFER TO DRGS 5427-035 & 036



MD2A03 - INSTALL STRAPPING SYSTEM. FOR STRAPPING SYSTEM REFER TO DRG 5427-032

MD2A04 - REMOVE LADDER RUNGS

TENDER

A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM
Rev.	Date	Description	App'd

ESSO PETROLEUM CO. LTD

**BOWLING TERMINAL
MOORING DOLPHIN 2
OPTION 1**

NIRAS
GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasfraenkel.com
www.nirasfraenkel.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019


Drg No : 5427-003 Rev A

MOORING DOLPHIN 2 (MD2)

11/12/2017

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.

 Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

Demolition

- di Contractor to take caution when removing furniture and installing strapping system to ensure the existing structure will not be loaded in a manner to cause instability.
- dii Contractor to check the marine structure before commencing work to identify any loose objects and to incorporate them in the methodology of the works.
- diii Water depth at low tide is shallow and consideration to tide levels should be taken during the works.



MD3A02 - REMOVE BOLLARD AND GRIND DOWN BOLTS

MD3A01 - INSTALL SIGN TYPE A ON EACH OF THE FOUR SIDES. FOR SIGN FIXINGS REFER TO DRGS 5427-035 & 036



MD3A04 - REMOVE LADDER RUNGS

MD3A03 - INSTALL STRAPPING SYSTEM REFER TO DRG 5427-032

MOORING DOLPHIN 3 (MD3)

TENDER

Rev.	Date	Description	App'd
A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM

ESSO PETROLEUM CO. LTD

**BOWLING TERMINAL
MOORING DOLPHIN 3
OPTION 1**

NIRAS GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasfraenkel.com
www.nirasfraenkel.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-004 Rev
A

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.



Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

Demolition

- di Contractor to take caution when removing furniture to ensure the existing structure will not be loaded in a manner to cause instability.
- dii Contractor to check the marine structure before commencing work to identify any loose objects and to incorporate them in the methodology of the works.
- diii Water depth at low tide is shallow and consideration to tide levels should be taken during the works.
- div Infill material type with in structure below water level is not known. There are heavily corroded tie rods that may be structurely connecting the structure together. Contractor to take precautionary measures in their demolition methodology to account for this. For further information on the condition of the structure refer to Appendix A the Pre-construction information document.



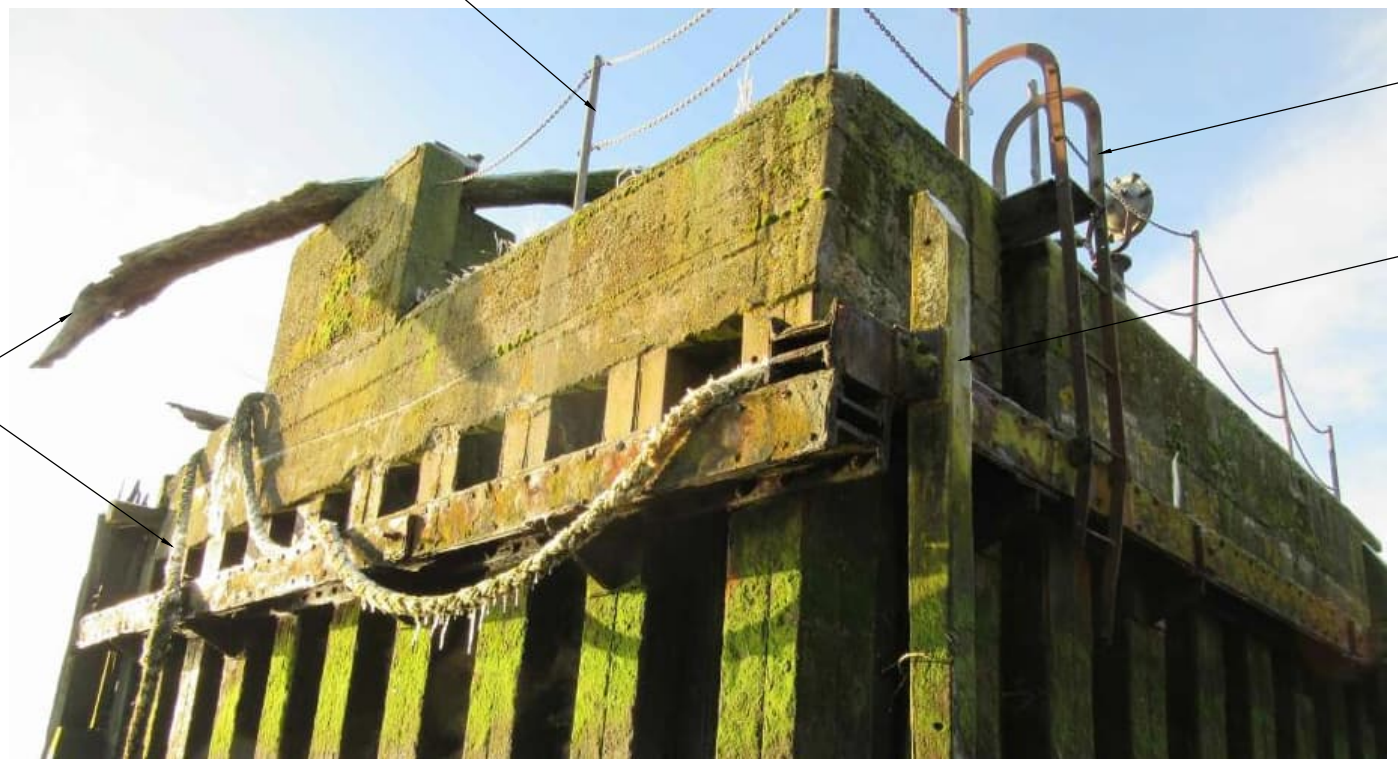
BD1A02 - REMOVE BOLLARDS (2No.) AND GRIND DOWN BOLTS

BD1A03 - REMOVE SPOT LIGHT AND SUPPORT

BD1A01 - INSTALL SIGN TYPE B ON EACH OF THE FOUR SIDES. BOLT SIGNS INTO CONCRETE, THE FRONT FACE WHERE THE TIMBER FENDERS ARE IN THE WAY INSTALL SIGN ON DECK USING BRACKETS BOLTED TO CONCRETE DECK. FOR SIGN FIXINGS REFER TO DRGS 5427-035 & 036

BD1A04 - REMOVE TIMBER FENDER FACING ON FRONT FACE

BD1A05 - REMOVE ALL CHAINS



BD1A08 - REMOVE HANDRAIL POLES AND CHAINS

BD1A06 - REMOVE LADDER

BD1A07 - REMOVE ALL DISCRETE TIMBER FENDERS APPROX. 2 No.

BD1A09 - REMOVE ROPE, DRIFTWOOD AND ANY OTHER LOOSE ITEMS/DEBRIS



BERTHING DOLPHIN 1 (BD1)

TENDER

A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM
Rev.	Date	Description	App'd

ESSO PETROLEUM CO. LTD

**BOWLING TERMINAL
BERTHING DOLPHIN 1
OPTION 1**

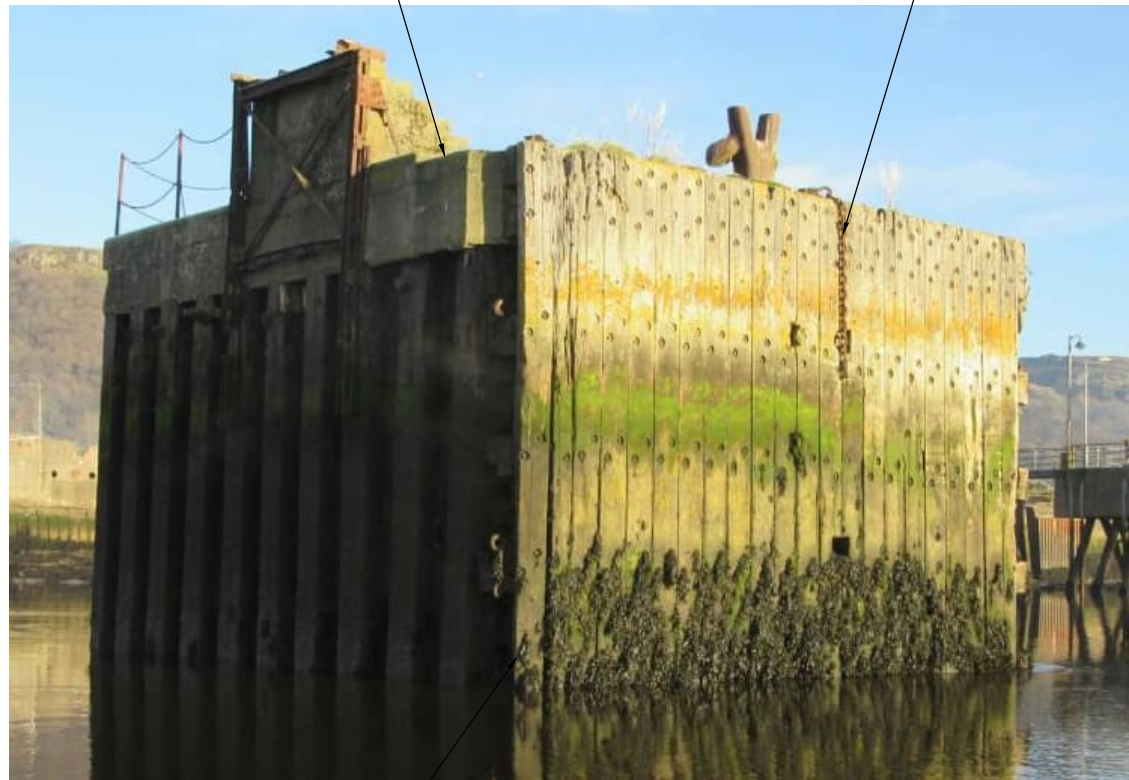
NIRAS GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasraenke.com
www.nirasraenke.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-005

Rev
A

BD2A01 - INSTALL SIGN TYPE B ON EACH OF THE FOUR SIDES. BOLT SIGNS INTO CONCRETE, THE FRONT FACE WHERE THE TIMBER FENDERS ARE IN THE WAY INSTALL SIGN ON DECK USING BRACKETS BOLTED TO CONCRETE DECK. FOR SIGN FIXINGS REFER TO DRGS 5427-035 & 036



BD2A04 - REMOVE ALL CHAINS

BD2A07 - REMOVE ROPE AND ANY OTHER LOOSE ITEMS/DEBRIS

BD2A05 - REMOVE LADDER



BD2A06 - REMOVE HANDRAIL POLES AND CHAINS

BD2A03 - REMOVE TIMBER FENDER FACING ON THE FRONT FACE



BD2A02 - REMOVE BOLLARDS (2No.) AND GRIND DOWN BOLTS

BERTHING DOLPHIN 2 (BD2)

TENDER

A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM
Rev.	Date	Description	App'd

ESSO PETROLEUM CO. LTD

BOWLING TERMINAL
BERTHING DOLPHIN 2
OPTION 1

NIRAS GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasfrankel.com
www.nirasfrankel.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-006 Rev
A

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.



Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

di

Demolition

- di Contractor to take caution when removing furniture to ensure the existing structure will not be loaded in a manner to cause instability.
- dii Contractor to check the marine structure before commencing work to identify any loose objects and to incorporate them in the methodology of the works.
- diii Water depth at low tide is shallow and consideration to tide levels should be taken during the works.
- div Infill material type with in structure below water level is not known. There are heavily corroded tie rods that may be structurally connecting the structure together. Contractor to take precautionary measures in their demolition methodology to account for this. For further information on the condition of the structure refer to Appendix A the Pre-construction information document.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.



Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

Demolition

- di Contractor to take caution when removing furniture to ensure the existing structure will not be loaded in a manner to cause instability.
- dii Contractor to check the marine structure before commencing work to identify any loose objects and to incorporate them in the methodology of the works.
- diii Water depth at low tide is shallow and consideration to tide levels should be taken during the works.
- div Infill material type with in structure below water level is not known. There are heavily corroded tie rods that may be structurely connecting the structure together. Contractor to take precautionary measures in their demolition methodology to account for this. For further information on the condition of the structure refer to Appendix A the Pre-construction information document.

JH1A03 - REMOVE ANY PROTRUDING ITEMS ON THE TOP AND GRIND DOWN BOLTS

JH1A01 - INSTALL SIGN TYPE B ON EACH OF THE FOUR SIDES. BOLT SIGNS INTO CONCRETE. FOR SIGN FIXINGS REFER TO DRGS 5427-035 & 036.



JH1A04 - REMOVE HANDRAIL POLES AND CHAINS

JH1A05 - REMOVE ROPE AND ANY LOOSE ITEMS/DEBRIS



JH1A02 - REMOVE TIMBER FENDERS ABOVE UPPER WALLING BEAM

JETTY HEAD 1 (JH1)

TENDER

A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM
Rev.	Date	Description	App'd

ESSO PETROLEUM CO. LTD

**BOWLING TERMINAL
JETTY HEAD 1
OPTION 1**

NIRAS GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasraenke.com
www.nirasraenke.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-007 Rev
A

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.



Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

Demolition

di Water depth at low tide is shallow and consideration to tide levels should be taken during the works.

SS1A01 - INSTALL A SIGN TYPE A ON EACH OF THE FOUR SIDES. BOLT SIGNS INTO CONCRETE. FOR SIGN FIXINGS REFER TO DRGS 5427-035 & 036.



SUPPORT STRUCTURE 1 (SS1)

TENDER

Rev.	Date	Description	App'd
A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM

ESSO PETROLEUM CO. LTD

**BOWLING TERMINAL
SUPPORT STRUCTURE 1
OPTION 1**

NIRAS GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasfraenkel.com
www.nirasfraenkel.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-008 Rev
A

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.



Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

Demolition

di Water depth at low tide is shallow and consideration to tide levels should be taken during the works.

SS2A01 - INSTALL A SIGN TYPE A ON EACH OF THE FOUR SIDES. BOLT SIGNS INTO CONCRETE. FOR SIGN FIXINGS REFER TO DRGS 5427-035 & 036.



di

SUPPORT STRUCTURE 2 (SS2)

TENDER

Rev.	Date	Description	App'd
A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM

ESSO PETROLEUM CO. LTD

**BOWLING TERMINAL
SUPPORT STRUCTURE 2
OPTION 1**

NIRAS GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasfraenkel.com
www.nirasfraenkel.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-009 Rev
A

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.



Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

Demolition

- di Contractor to take caution when removing furniture to ensure the existing structure will not be loaded in a manner to cause instability.
- dii Contractor to check the marine structure before commencing work to identify any loose objects and to incorporate them in the methodology of the works.
- diii Water depth at low tide is shallow and consideration to tide levels should be taken during the works.



BD3A01 - INSTALL 8 SIGNS TYPE B AT EQUAL DISTANCE FROM EACH OTHER, FOR SIGN FIXINGS REFER TO DRGS 5427-035 & 036.



BD3A02 - REMOVE CHAINS

BD3A04 - REMOVE LADDER

BD3A03 - REMOVE ROPE AND ANY OTHER LOOSE ITEMS/DEBRIS



BERTHING DOLPHIN 3 (BD3)

TENDER

Rev.	Date	Description	App'd
A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM

ESSO PETROLEUM CO. LTD

**BOWLING TERMINAL
BERTHING DOLPHIN 3
OPTION 1**

NIRAS GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasfraenke.com
www.nirasfraenke.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-010 Rev
A

BD4A01 - INSTALL 8 SIGNS TYPE B AT EQUAL DISTANCE EACH OTHER. FOR SIGN FIXINGS REFER TO DRGS 5427-035 & 036.


BD4A02 - REMOVE CHAINS

BD4A03 - REMOVE RUBBER FENDERS



SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.

 Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

Demolition

di Contractor to take caution when removing furniture to ensure the existing structure will not be loaded in a manner to cause instability.

dii Contractor to check the marine structure before commencing work to identify any loose objects and to incorporate them in the methodology of the works.

diii Water depth at low tide is shallow and consideration to tide levels should be taken during the works.

BD4A05 - REMOVE LADDER

BD4A04 - REMOVE ANY LOOSE ITEMS/DEBRIS (IF PRESENT)



BERTHING DOLPHIN 4 (BD4)

TENDER

A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM
Rev.	Date	Description	App'd

ESSO PETROLEUM CO. LTD

**BOWLING TERMINAL
BERTHING DOLPHIN 4
OPTION 1**

NIRAS GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasfrankel.com
www.nirasfrankel.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-011 Rev
A

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.



Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

Demolition

- di Contractor to take caution when removing furniture to ensure the existing structure will not be loaded in a manner to cause instability.
- dii Contractor to check the marine structure before commencing work to identify any loose objects and to incorporate them in the methodology of the works.
- diii Water depth at low tide is shallow and consideration to tide levels should be taken during the works.

JH2A03 - REMOVE BOLLARDS (2No.) AND GRIND DOWN BOLTS

JH2A05 - REMOVE ROPES AND ANY LOOSE ITEMS/DEBRIS

JH2A01 - INSTALL 8 SIGNS TYPE B. ONE ON EACH FACE. BOLT SIGNS INTO CONCRETE. FOR SIGN FIXINGS REFER TO DRGS 2427-035 & 036.



JH2A02 - REMOVE TIMBER FENDERS ON THE SOUTH FACE

JH2A04 - REMOVE CHAINS



JH2A06 - REMOVE HANDRAIL

TENDER

B	06-02-19	For Comment	DFM
A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM
Rev.	Date	Description	App'd

ESSO PETROLEUM CO. LTD

**BOWLING TERMINAL
JETTY HEAD 2
OPTION 1**

NIRAS
GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasraenkel.com
www.nirasraenkel.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-012 Rev B

JETTY HEAD 2 (JH2)

NOTES

1. NOTES FOR OPTION 2 SHOWN IN BLUE.

Option 2 is no longer required. Physical access to the structure to be fully restricted through installation of palisade fencing with a lockable gate. Gates shall be 3.0m wide and 1.8m high, with suitable fencing, and installed as per manufacturer's recommendations with suitable foundations.

(OPTION 2) JHA2-1A03-2
DEMOLISH/REMOVE ENTIRE
ACCESS TRESTLE AND CUT TIMBER
PILES 1m BELOW RIVERBED

(OPTION 1) JHA2-1A01 - DEMOLISH/REMOVE
FIRST SECTION OF ACCESS TRESTLE TO THE
SUPPORT STRUCTURE AND CUT TIMBER
PILES 1m BELOW RIVERBED



(OPTION 1) JHA2-1A02 - INSTALL 2 SIGNS TYPE
C ON SUPPORT STRUCTURE, FOR SIGN
FIXINGS REFER TO DRGS 5427-035 & 036.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.



Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

Demolition

- di Contractor to take caution when removing furniture and installing strapping system to ensure the existing structure will not be loaded in a manner to cause instability.
- dii Contractor to check the marine structure before commencing work to identify any loose objects and to incorporate them in the methodology of the works.
- diii Contractor to take caution when removing access structures and utilize methods to ensure the remainder structures will not be loaded in a manner to cause instability.
- div When cutting the timber piles contractor to use methods that minimize or eliminate diving operations.

TENDER

B	06-02-19	For Comment	DFM
A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM
Rev.	Date	Description	App'd

ESSO PETROLEUM CO. LTD

BOWLING TERMINAL
JETTY HEAD ACCESS 2-1
OPTION 1 & 2

NIRAS GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasraenkel.com
www.nirasraenkel.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-013 Rev B

JETTY HEAD ACCESS 2-1 (JHA 2-1)
OPTIONS 1 & 2

NOTES

1. NOTES FOR OPTION 2 SHOWN IN BLUE.


Option 2 is no longer required. Physical access to the structure to be fully restricted through installation of palisade fencing with a lockable gate. Gates shall be 3.0m wide and 1.8m high, with suitable fencing, and installed as per manufacturer's recommendations with suitable foundations.

(OPTION 2) JHA2-2-A03-2 - DEMOLISH/REMOVE ENTIRE ACCESS TRESTLE AND CUT PILE 1m BELOW RIVERBED

(OPTION 1) JHA2-2A02 - INSTALL 2 SIGNS TYPE C ON SUPPORT STRUCTURES. FOR SIGN FIXINGS REFER TO DRGS 5427-035 & 036.



SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION
 This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.

 Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

Demolition

- di Contractor to take caution when removing furniture and installing strapping system to ensure the existing structure will not be loaded in a manner to cause instability.
- dii Contractor to check the marine structure before commencing work to identify any loose objects and to incorporate them in the methodology of the works.
- diii Contractor to take caution when removing access structures and utilize methods to ensure the remainder structures will not be loaded in a manner to cause instability.
- div When cutting the timber piles contractor to use methods that minimize or eliminate diving operations.



(OPTION 1) JHA2-2A01 - DEMOLISH/REMOVE FIRST SECTION OF ACCESS TO THE SUPPORT STRUCTURE AND CUT TIMBER PILES 1m BELOW RIVERBED.

TENDER

B	06-02-19	For Comment	DFM
A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM
Rev.	Date	Description	App'd

ESSO PETROLEUM CO. LTD

**BOWLING TERMINAL
 JETTY HEAD ACCESS 2-2
 OPTIONS 1 & 2**

NIRAS GLASGOW OFFICE
 Suite 18, Merlin House
 Hillington, Glasgow G52 4XZ
 Tel: 0141 882 6600
 glasgow@nirasraenkel.com
 www.nirasraenkel.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-014 Rev B

JETTY HEAD ACCESS 2-2 (JHA2-2)
OPTIONS 1 & 2

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.



Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

Demolition

- di Contractor to take caution when removing furniture to ensure the existing structure will not be loaded in a manner to cause instability.
- dii Contractor to check the marine structure before commencing work to identify any loose objects and to incorporate them in the methodology of the works.
- diii Water depth at low tide is shallow and consideration to tide levels should be taken during the works.

MD6A02 - REMOVE HANDRAIL AND LIGHTING POLES AND ANY OTHER PROTRUDING ITEMS ON THE DECK

MD6A04 - REMOVE BOLLARD AND GRIND DOWN BOLTS

MD6A05 - REMOVE ANY LOOSE ITEMS/DEBRIS FROM TOPSIDE (IF PRESENT)

MD6A01 - INSTALL 3 SIGNS TYPE A ONE ON EACH OF SOUTH, EAST AND WEST SIDES. FOR SIGN FIXINGS REFER TO DRGS 5427-035 & 036.

MD6A03 - REMOVE ALL WOODEN FENDERS AND BRACKETS FROM CONCRETE DOLPHIN



MOORING DOLPHIN 6 (MD6)

TENDER

A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM
Rev.	Date	Description	App'd

ESSO PETROLEUM CO. LTD

**BOWLING TERMINAL
MOORING DOLPHIN 6
OPTION 1**

NIRAS GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasfrankenl.com
www.nirasfrankenl.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-016 Rev
A

NOTES

1. NOTES FOR OPTION 2 SHOWN IN BLUE.

Option 2 is no longer required. Physical access to the structure to be fully restricted through installation of palisade fencing with a lockable gate. Gates shall be 3.0m wide and 1.8m high, with suitable fencing, and installed as per manufacturer's recommendations with suitable foundations.

(OPTION 2) MD6A08-2 - REMOVE ENTIRE WALKWAY AND CUT TIMBER PILES 1m BELOW RIVERBED


(OPTION 1) MD6A07 - INSTALL ONE SIGN TYPE C ON LANDSIDE. FOR SIGN FIXINGS REFER TO DRGS 5427-035 & 036.



(OPTION 1) MD6A06 - REMOVE FIRST LANDSIDE SECTION OF WALKWAY

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.

 Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

Demolition

- di Contractor to take caution when removing furniture and installing strapping system to ensure the existing structure will not be loaded in a manner to cause instability.
- dii Contractor to check the marine structure before commencing work to identify any loose objects and to incorporate them in the methodology of the works.
- diiii Contractor to take caution when removing access structures and utilize methods to ensure the remainder structures will not be loaded in a manner to cause instability.
- div When cutting the timber piles contractor to use methods that minimize or eliminate diving operations.

TENDER

B	06-02-19	For Comment	DFM
A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM
Rev.	Date	Description	App'd

ESSO PETROLEUM CO. LTD

**BOWLING TERMINAL
MD ACCESS 6
OPTIONS 1 & 2**

NIRAS GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasraenkel.com
www.nirasraenkel.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-017 Rev B

MOORING DOLPHIN ACCESS 6 (MDA6)
OPTIONS 1 & 2

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

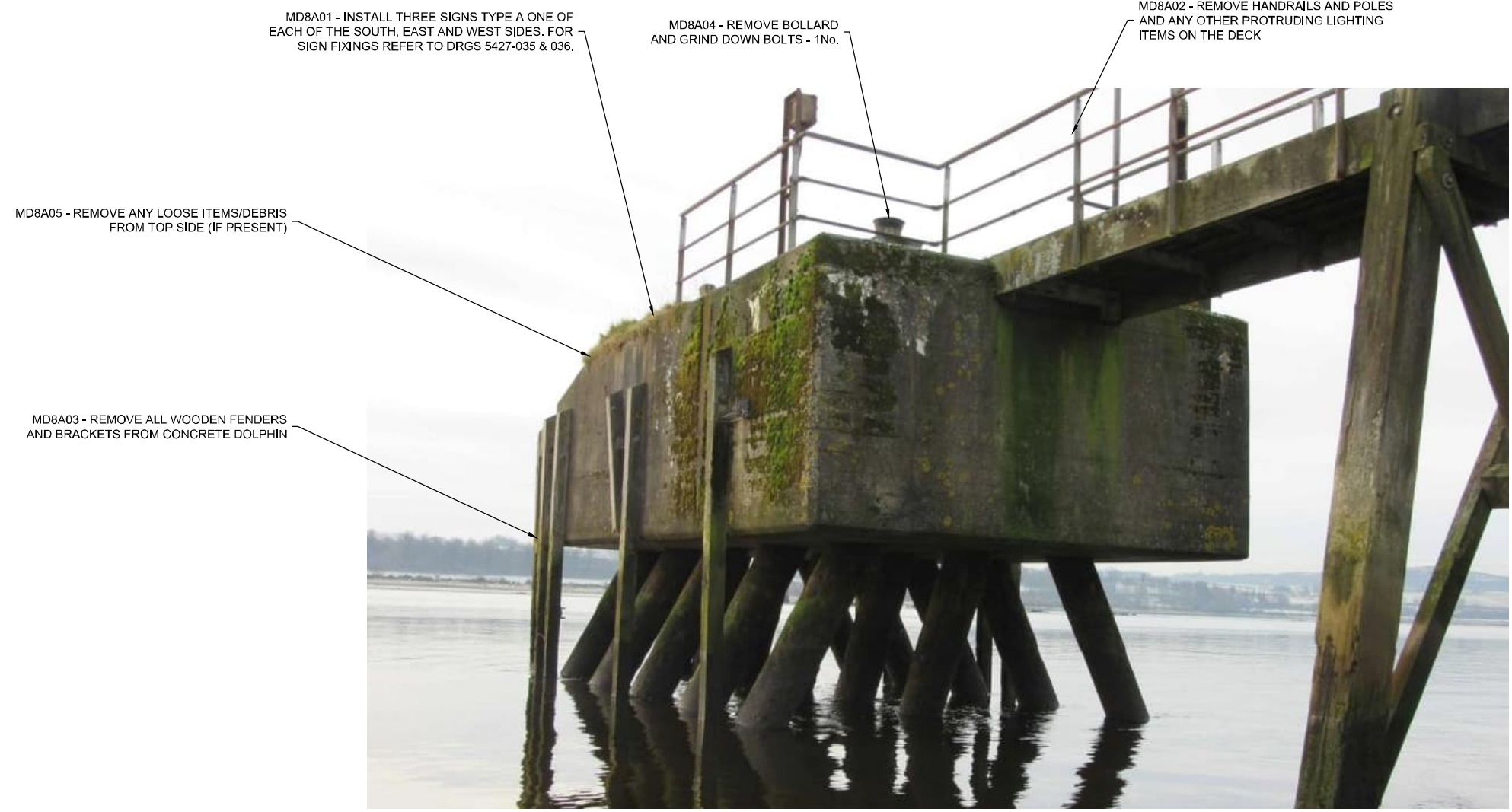
This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.



Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

Demolition

- di Contractor to take caution when removing furniture to ensure the existing structure will not be loaded in a manner to cause instability.
- dii Contractor to check the marine structure before commencing work to identify any loose objects and to incorporate them in the methodology of the works.
- diii Water depth at low tide is shallow and consideration to tide levels should be taken during the works.



MOORING DOLPHIN 8 (MD8)

TENDER

A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM
Rev.	Date	Description	App'd

ESSO PETROLEUM CO. LTD

**BOWLING TERMINAL
MOORING DOLPHIN 8
OPTION 1**

NIRAS
GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasfrankenl.com
www.nirasfrankenl.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-018 Rev
A

NOTES

1. NOTES FOR OPTION 2 SHOWN IN BLUE.

Option 2 is no longer required. Physical access to the structure to be fully restricted through installation of palisade fencing with a lockable gate. Gates shall be 3.0m wide and 1.8m high, with suitable fencing, and installed as per manufacturer's recommendations with suitable foundations.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.



Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

Demolition

- di Contractor to take caution when removing furniture and installing strapping system to ensure the existing structure will not be loaded in a manner to cause instability.
- dii Contractor to check the marine structure before commencing work to identify any loose objects and to incorporate them in the methodology of the works.
- diii Contractor to take caution when removing access structures and utilize methods to ensure the remainder structures will not be loaded in a manner to cause instability.
- div When cutting the timber piles contractor to use methods that minimize or eliminate diving operations.

(OPTION 1) MD8A06 - REMOVE FIRST LANDSIDE SECTION OF WALKWAY

(OPTION 2) MD8A08-2 - REMOVE ENTIRE WALKWAY AND CUT TIMBER PILES 1m BELOW RIVERBED

(OPTION 1) MD8A07 INSTALL ONE SIGN TYPE C ON LANDSIDE. FOR SING FIXINGS REFER TO DRGS 5427-035 & 036



TENDER

B	06-02-19	For Comment	DFM
A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM
Rev.	Date	Description	App'd

ESSO PETROLEUM CO. LTD

BOWLING TERMINAL
MOORING DOLPHIN ACCESS 8
OPTIONS 1 & 2

NIRAS
GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasraenkel.com
www.nirasraenkel.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-019

Rev
B

MOORING DOLPHIN ACCESS 8 (MDA8)
OPTIONS 1 & 2

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.



Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

Demolition

- di Contractor to take caution when removing furniture and installing strapping system to ensure the existing structure will not be loaded in a manner to cause instability.
- dii Contractor to check the marine structure before commencing work to identify any loose objects and to incorporate them in the methodology of the works.
- diii Water depth at low tide is shallow and consideration to tide levels should be taken during the works.

MD4A01 - INSTALL ONE SIGN TYPE C ON DOLPHIN FACING RIVER. FOR SIGN FIXINGS REFER TO DRGS. 5427-035 & 036

MD4A02 - INSTALL ONE SIGN TYPE C ON LANDSIDE QUAY WALL FACING LANDSIDE. FOR SIGN FIXINGS REFER TO DRGS 5427-035 & 036

MD4A03 - INSTALL STRAPPING SYSTEM. FOR STRAPPING DETAILS REFER TO DRG 5427-032 TO 34



MOORING DOLPHIN 4 (MD4)

TENDER

A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM
Rev.	Date	Description	App'd

ESSO PETROLEUM CO. LTD

**BOWLING TERMINAL
MOORING DOLPHIN 4
OPTION 1**

NIRAS GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasfraenkel.com
www.nirasfraenkel.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-020 Rev
A

MD5A01 - INSTALL ONE SIGN TYPE C ON LANDSIDE FACING LANDSIDE. FOR SIGN FIXINGS REFER TO DRGS 5427-035 & 036.

MD5A02 - INSTALL ONE SIGN TYPE C ON DOLPHIN FACING RIVER. FOR SIGN FIXINGS REFER TO DRGS 5427-035 & 036.

MD5A03- INSTALL STRAPPING SYSTEM. FOR STRAPPING SYSTEM REFER TO DRG 5427-032 TO 034.



MD5A04 - REMOVE BOLLARD AND GRIND DOWN BOLTS



MOORING DOLPHIN 5 (MD5)

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.



Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

Demolition

- di Contractor to take caution when removing furniture and installing strapping system to ensure the existing structure will not be loaded in a manner to cause instability.
- dii Contractor to check the marine structure before commencing work to identify any loose objects and to incorporate them in the methodology of the works.
- diii Water depth at low tide is shallow and consideration to tide levels should be taken during the works.



TENDER

A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM
Rev.	Date	Description	App'd

ESSO PETROLEUM CO. LTD

**BOWLING TERMINAL
MOORING DOLPHIN 5
OPTION 1**

NIRAS GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasfrankenl.com
www.nirasfrankenl.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-021 Rev
A

MD7A01 - INSTALL ONE SIGN TYPE C ON LANDSIDE FACING LANDSIDE. FOR SIGN FIXINGS REFER TO DRGS 5427-035 & 036.

MD7A03-INSTALL STRAPPING SYSTEM. FOR STRAPPING DETAILS REFER TO DRG 5427-032 TO 034.



MD7A02 - INSTALL ONE SIGN TYPE C ON DOLPHIN FACING RIVER. FOR SIGN FIXINGS REFER TO DRGS 5427-035 & 036.



MD7A04 - GRIND DOWN BOLTS



SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.



Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

Demolition

- di Contractor to take caution when removing furniture and installing strapping system to ensure the existing structure will not be loaded in a manner to cause instability.
- dii Contractor to check the marine structure before commencing work to identify any loose objects and to incorporate them in the methodology of the works.
- diii Water depth at low tide is shallow and consideration to tide levels should be taken during the works.

TENDER

Rev.	Date	Description	App'd
B	06-02-19	For Comment	DFM
A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM

ESSO PETROLEUM CO. LTD

**BOWLING TERMINAL
MOORING DOLPHIN 7
OPTION 1**

NIRAS GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasraenke.com
www.nirasraenke.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-022 Rev B

MOORING DOLPHIN 7 (MD7)

MD9A01 - INSTALL ONE SIGN TYPE C ON LANDSIDE FACING LANDSIDE. FOR SIGN FIXINGS REFER TO DRGS 5427-035 & 036.

MD9A02 - INSTALL ONE SIGN TYPE C ON DOLPHIN FACING RIVER. FOR SIGN FIXINGS REFER TO DRGS 5427-035 & 036.

MD9A03- INSTALL STRAPPING SYSTEM. FOR STRAPPING DETAILS REFER TO DRG 5427-032 TO 034.

MD9A04 - REMOVE BOLLARD AND GRIND DOWN BOLTS



SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.



Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

Demolition

- di Contractor to take caution when removing furniture and installing strapping system to ensure the existing structure will not be loaded in a manner to cause instability.
- dii Contractor to check the marine structure before commencing work to identify any loose objects and to incorporate them in the methodology of the works.
- diii Water depth at low tide is shallow and consideration to tide levels should be taken during the works.

TENDER

Rev.	Date	Description	App'd
A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM

ESSO PETROLEUM CO. LTD

**BOWLING TERMINAL
MOORING DOLPHIN 9
OPTION 1**

NIRAS
GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasfraenke.com
www.nirasfraenke.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-023 Rev
A

MOORING DOLPHIN 9 (MD9)

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.



Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

Demolition

- di Contractor to take caution when removing furniture and installing strapping system to ensure the existing structure will not be loaded in a manner to cause instability.
- dii Contractor to check the marine structure before commencing works to identify any loose objects and to incorporate them in the methodology of the works.
- diii Water depth at low tide is shallow and consideration to tide levels should be taken during the works.

MD10A01 - INSTALL ONE SIGN TYPE C ON LANDSIDE FACING LANDSIDE. FOR SIGN FIXINGS REFER TO DRGS 5427-035 & 036.

MD10A05 - REMOVE BOLLARD AND GRIND DOWN BOLTS

MD10A02 - INSTALL ONE SIGN TYPE C ON DOLPHIN FACING RIVER. FOR SIGN FIXINGS REFER TO DRGS 5427-035 & 036.

MD10A03 - INSTALL STRAPPING SYSTEM. FOR STRAPPING DETAILS REFER TO DRG 5427-032 TO 034.

MD10A04 - REMOVE BROKEN TIE ROD



TENDER

A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM
Rev.	Date	Description	App'd

ESSO PETROLEUM CO. LTD

**BOWLING TERMINAL
MOORING DOLPHIN 10
OPTION 1**

NIRAS GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasfraenkeL.com
www.nirasfraenkeL.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-024 Rev
A

MOORING DOLPHIN 10 (MD10)

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.



Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

Demolition

- di Contractor to take caution when removing furniture and installing strapping system to ensure the existing structure will not be loaded in a manner to cause instability.
- dii Contractor to check the marine structure before commencing work to identify any loose objects and to incorporate them in the methodology of the works.
- diii Water depth at low tide is shallow and consideration to tide levels should be taken during the works.

MD11A02 - INSTALL ONE SIGN TYPE C ON DOLPHIN FACING RIVER. FOR SIGN FIXINGS REFER TO DRGS 5427-035 & 036.

MD11A04 - REMOVE BOLLARD AND GRIND DOWN BOLTS

MD11A01 - INSTALL ONE SIGN TYPE C ON LANDSIDE FACING LANDSIDE. FOR SIGN FIXINGS REFER TO DRGS 5427-035 & 036.

MD11A03 - INSTALL STRAPPING SYSTEM. FOR STRAPPING DETAILS REFER TO DRG 5427-032 TO 034.



MOORING DOLPHIN 11 (MD11)

TENDER

A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM
Rev.	Date	Description	App'd

ESSO PETROLEUM CO. LTD

**BOWLING TERMINAL
MOORING DOLPHIN 11
OPTION 1**

NIRAS GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasraenke.com
www.nirasraenke.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-025 Rev
A

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.



Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

Demolition

- di Contractor to take caution when removing furniture to ensure the existing structure will not be loaded in a manner to cause instability.
- dii Contractor to check the marine structure before commencing work to identify any loose objects and to incorporate them in the methodology of the works.
- diii Water depth at low tide is shallow and consideration to tide levels should be taken during the works.

MD12A01 - INSTALL ONE SIGN TYPE C ON LANDSIDE FACING LANDSIDE. FOR SIGN FIXINGS REFER TO DRGS 2427-035 & 036.

MD12A04 - REMOVE BOLLARD AND GRIND DOWN BOLTS

MD12A02 - INSTALL ONE SIGN TYPE C ON DOLPHIN FACING RIVER. FOR SIGN FIXINGS REFER TO DRGS 2427-035 & 036.

MD12A03 - INSTALL STRAPPING SYSTEM (ONLY BOTTOM). FOR STRAPPING DETAILS REFER TO DRG 5427-032 TO 034.



MOORING DOLPHIN 12 (MD12)

TENDER

A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM
Rev.	Date	Description	App'd

ESSO PETROLEUM CO. LTD

**BOWLING TERMINAL
MOORING DOLPHIN 12
OPTION 1**

NIRAS GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasraenke.com
www.nirasraenke.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-026 Rev
A

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.



Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

Demolition

- di Contractor to take caution when removing furniture and installing strapping system to ensure the existing structure will not be loaded in a manner to cause instability.
- dii Contractor to check the marine structure before commencing work to identify any loose objects and to incorporate them in the methodology of the works.
- diii Water depth at low tide is shallow and consideration to tide levels should be taken during the works.

MD13A01 - INSTALL ONE SIGN TYPE C ON LANDSIDE FACING LANDSIDE. FOR SIGN FIXINGS REFER TO DRGS 2427-035 & 036.

MD13A04 - REMOVE BOLLARD AND GRIND DOWN BOLTS

MD13A02 - INSTALL ONE SIGN TYPE C ON DOLPHIN FACING RIVER. FOR SIGN FIXINGS REFER TO DRGS 2427-035 & 036.



MD13A03 - INSTALL STRAPPING SYSTEM. FOR STRAPPING DETAILS REFER TO DRG 5427-032 TO 034

MOORING DOLPHIN 13 (MD13)

TENDER

A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM
Rev.	Date	Description	App'd

ESSO PETROLEUM CO. LTD

**BOWLING TERMINAL
MOORING DOLPHIN 13
OPTION 1**

NIRAS GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasfraenke.com
www.nirasfraenke.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-027 Rev
A

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.



Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

di

Demolition

- di Contractor to take caution when removing furniture to ensure the existing structure will not be loaded in a manner to cause instability.
- dii Contractor to check the marine structure before commencing work to identify any loose objects and to incorporate them in the methodology of the works.
- diii Water depth at low tide is shallow and consideration to tide levels should be taken during the works.

MD14A05 - REMOVE ROPE AND ANY LOOSE ITEMS/DEBRIS (IF PRESENT)

MD14A04 - REMOVE BOLLARD AND GRIND DOWN BOLTS

MD14A01 - INSTALL THREE SIGNS TYPE A ON EACH OF SOUTH, EAST AND WEST SIDES. FOR SIGN FIXINGS REFER TO DRGS 5427-035 & 036.

MD14A02 - REMOVE HANDRAILS, LIGHTING, POLES AND ANY OTHER PROTRUDING ITEMS



MD14A03 - REMOVE ALL WOODEN FENDERS FROM CONCRETE DOLPHIN



TENDER

B	06-02-19	For Comment	DFM
A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM
Rev.	Date	Description	App'd

ESSO PETROLEUM CO. LTD

**BOWLING TERMINAL
MOORING DOLPHIN 14
OPTION 1**


NIRAS
GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasraenke.com
www.nirasraenke.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-028 Rev B

MOORING DOLPHIN 14 (MD14)

NOTE: BOTH OPTIONS 1 & 2 APPLY ONLY IF REQUIRED BY EMPLOYER. (i.e. ONLY IF MD14 NOT BROUGHT BACK INTO SERVICE)

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.	
	Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number
Demolition	
di	Contractor to take caution when removing furniture and installing strapping system to ensure the existing structure will not be loaded in a manner to cause instability.
dii	Contractor to check the marine structure before commencing work to identify any loose objects and to incorporate them in the methodology of the works.
diii	Contractor to take caution when removing access structures and utilize methods to ensure the remainder structures will not be loaded in a manner to cause instability.
div	When cutting the timber piles contractor to use methods that minimize or eliminate diving operations.

Option 2 is no longer required. Physical access to the structure to be fully restricted through installation of palisade fencing with a lockable gate. Gates shall be 3.0m wide and 1.8m high, with suitable fencing, and installed as per manufacturer's recommendations with suitable foundations.

MDA14A06 - REMOVE FIRST SECTION OF WALKWAY

(OPTION 2) MDA14A08 - REMOVE ENTIRE WALKWAY ACCESS STRUCTURE AND CUT TIMBER PILES 1m BELOW RIVERBED.

M14A07 - INSTALL ONE SIGN TYPE C ON LANDSIDE, FOR SIGN FIXINGS REFER TO DRGS 5427-035 & 036



MOORING DOLPHIN ACCESS 14 (MDA14)

NOTE: BOTH OPTIONS 1 & 2 APPLY ONLY IF REQUIRED BY EMPLOYER. (i.e. ONLY IF MD14 NOT BROUGHT BACK INTO SERVICE)

TENDER

Rev.	Date	Description	App'd
B	06-02-19	For Comment	DFM
A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM

ESSO PETROLEUM CO. LTD

BOWLING TERMINAL
MD ACCESS 14
OPTION 1 & 2

GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasraenkel.com
www.nirasraenkel.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-029

Rev B

Option 2 is no longer required. Physical access to the structure to be fully restricted through installation of palisade fencing with a lockable gate. Gates shall be 3.0m wide and 1.8m high, with suitable fencing, and installed as per manufacturer's recommendations with suitable foundations.

J1A01 - INSTALL TWO SIGNS TYPE A INTO CONCRETE FACING BASIN AND RIVER. FOR SIGN FIXINGS REFER TO DRGS 5427-035 & 036

(OPTION 2) J1A05-2 - DEMOLISH JETTY, CUT-OFF PILE 1m BELOW RIVERBED AND INSTALL NEW ROCK ARMOUR AS EXISTING

J1A03 - REMOVE ALL WOODEN FENDERS AND GRIND DOWN STUDS

J1A04 - REMOVE LADDER, PLASTIC PIPES AND ANY OTHER ITEMS PROVIDING MEANS OF CLIMBING ONTO JETTY



J1A02 - INSTALL ONE SIGN TYPE A ON THE PALISADE FENCE FACING THE ROADSIDE. FOR SIGN FIXINGS REFER TO DRGS 5427-035 & 036.



NOTES

1. NOTES FOR OPTION 2 SHOWN IN BLUE.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

This information is based on an experienced and competent contractor carrying out the work and the risks specific to these works additional to those normally associated with this type of work.



Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

Demolition

- di Contractor to check the marine structure before commencing work to identify any loose objects and to incorporate them in the methodology of the works.
- dii Water depth at low tide is shallow and consideration to tide levels should be taken during the works.
- diii When cutting the concrete piles contractor to use methods that minimize or eliminate diving operations.

TENDER

B	06-02-19	For Comment	DFM
A	31-01-19	For Comment	DFM
-	17-01-19	For Comment	DFM
Rev.	Date	Description	App'd

ESSO PETROLEUM CO. LTD

BOWLING TERMINAL
JETTY 1
OPTIONS 1 & 2

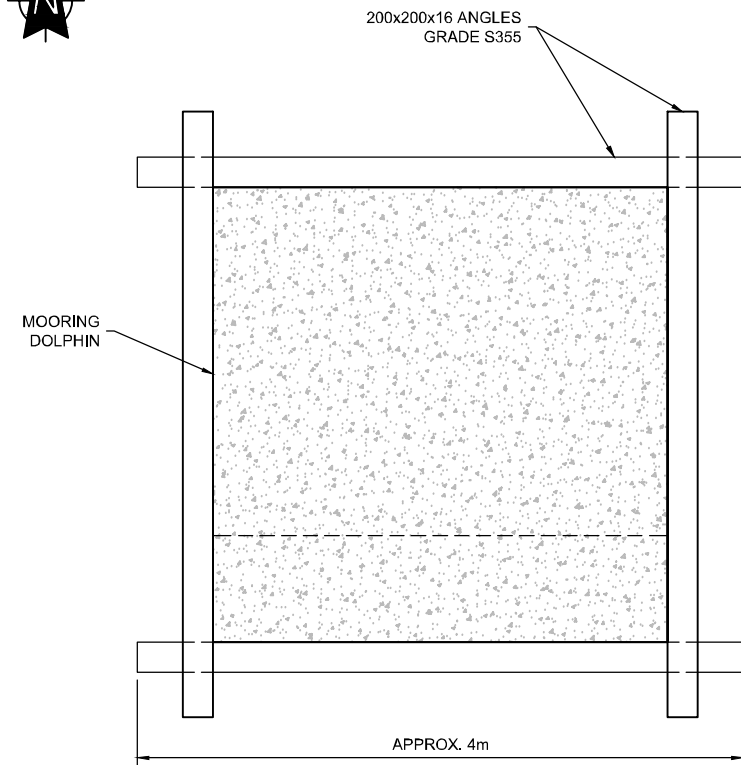
NIRAS GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasraenke.com
www.nirasraenke.com

Drawn	Checked	Approved	Scale (at A3): NTS
MAP	PBA	DFM	Date: Jan 2019

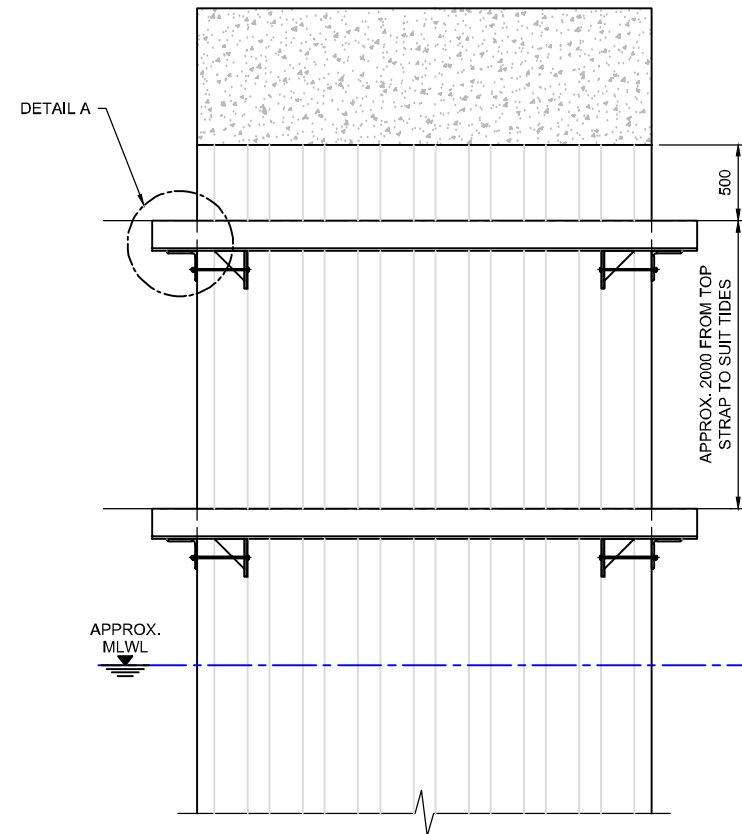
Drg No : 5427-030

Rev B

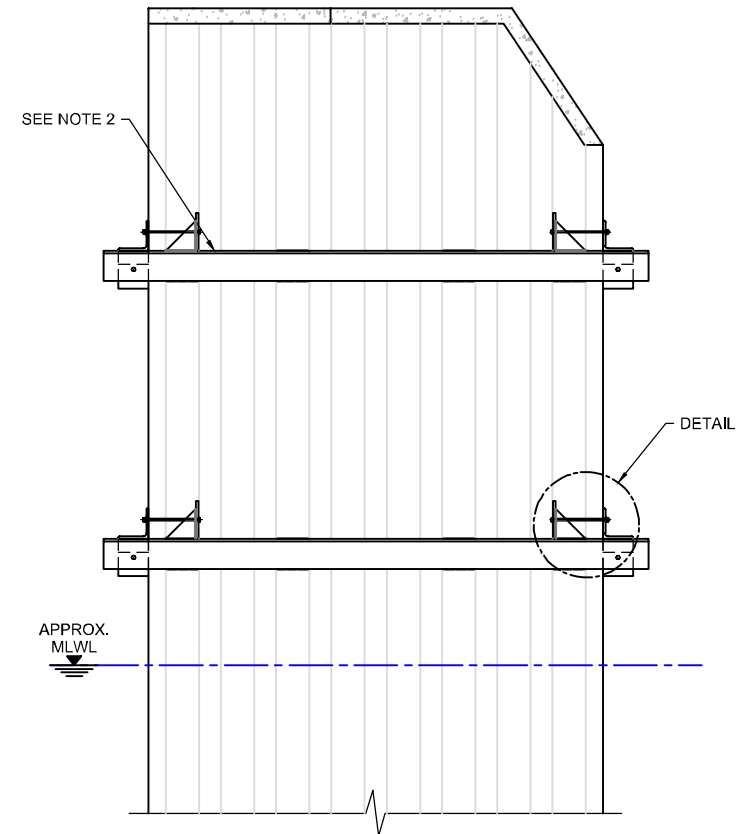
JETTY 1 (J1) OPTIONS 1 & 2



MOORING DOLPHIN PLAN
SCALE 1:50



MOORING DOLPHIN SOUTH ELEVATION
SCALE 1:50



MOORING DOLPHIN WEST ELEVATION
SCALE 1:50

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. 3mm FILLET WELDS TOP AND BOTTOM ON OUTPANES 1, 3, 6 AND 8 ON ALL SIDES.
3. TRIM ANGLES AT EDGES AFTER CONNECTING THEM.
4. WELD TOGETHER ANY LOOSE SHEET PILES WITH 3mm WELDS.
5. TEMPORARY SUPPORTS USED FOR INSTALLATION OF ANGLES TO BE BY CONTRACTOR.
6. CONSTRUCTION SEQUENCE:
 - a. INSTALL TEMPORARY SUPPORTS.
 - b. PLACE ANGLES IN POSITION.
 - c. TIGHTEN BOLTS BETWEEN ANGLES TO BRING THEM TOGETHER.
 - d. WELD BETWEEN ANGLES AT CORNERS.
 - e. WELD BETWEEN SHEET PILES AND ANGLES.
7. ALL THE BOLTS ARE M16 GRADE 8.8, BOLTS ANCHORED IN CONCRETE TO BE HILTI HIT-RE 500V3 WITH HIT-V ROD M16 125mm EMBEDMENT LENGTH.
8. DOLPHIN STRUCTURE DIMENSIONS ARE NOT KNOWN. LENGTHS OF ANGLES ARE TO BE CONFIRMED BY CONTRACTOR. APPROXIMATE LENGTHS PROVIDED ON DRAWING.

TENDER

A	06-02-19	For Comment	DFM
-	31-01-19	-	DFM
Rev.	Date	Description	App'd

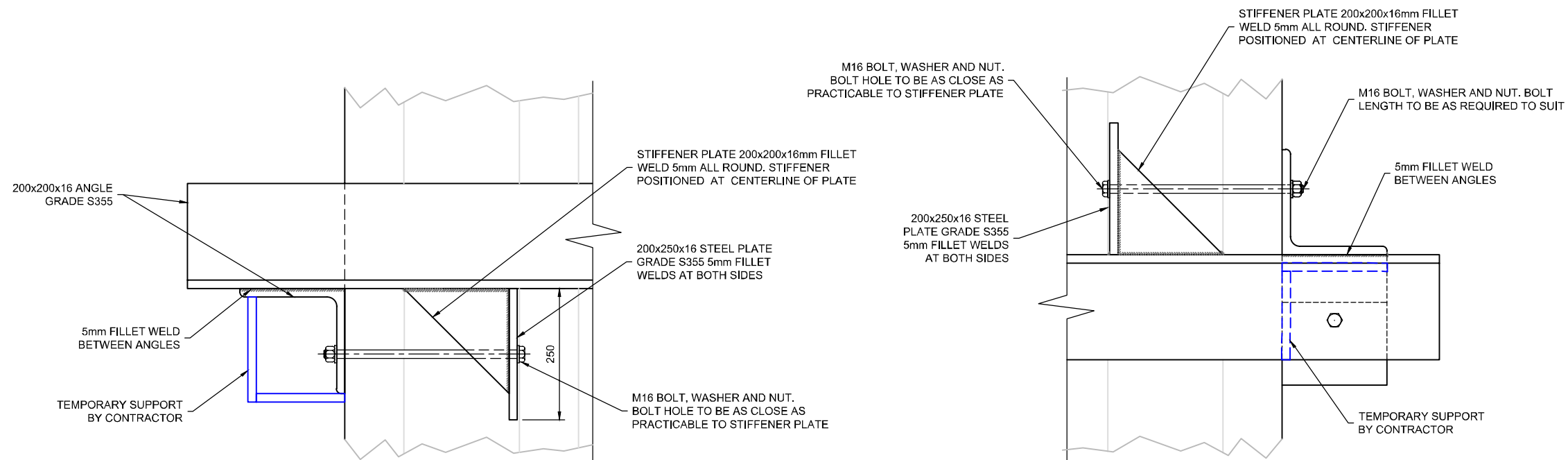
ESSO PETROLEUM CO. LTD

BOWLING TERMINAL
STRAPPING DETAILS
FOUR-SIDED DOLPHINS
MD1, MD2, MD3

NIRAS
GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasraenkel.com
www.nirasraenkel.com

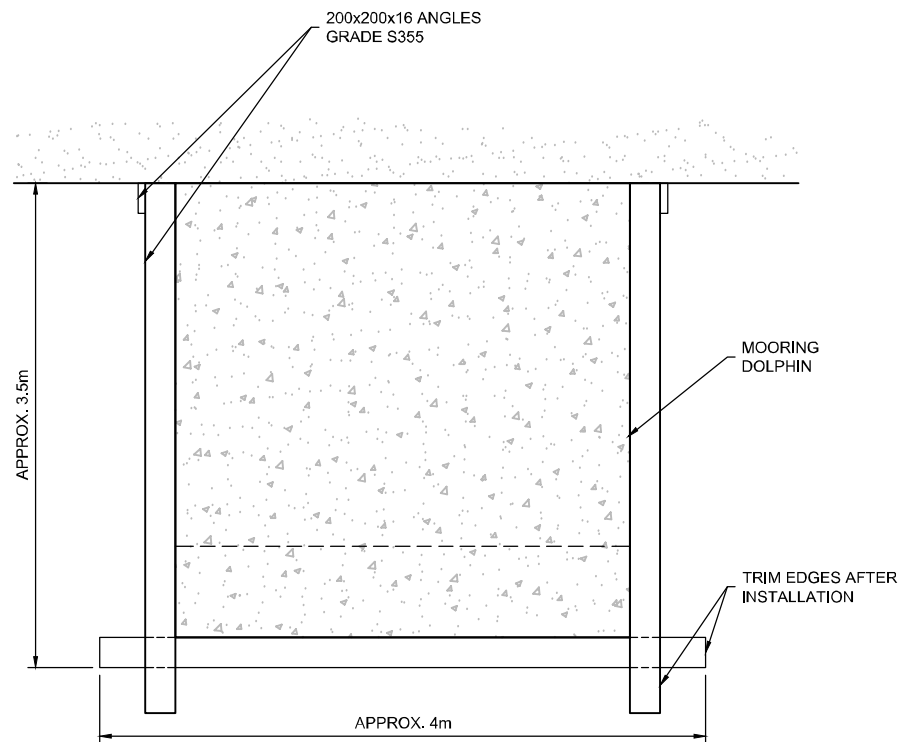
Drawn	Checked	Approved	Scale (at A3): As Shown
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-032 Rev A

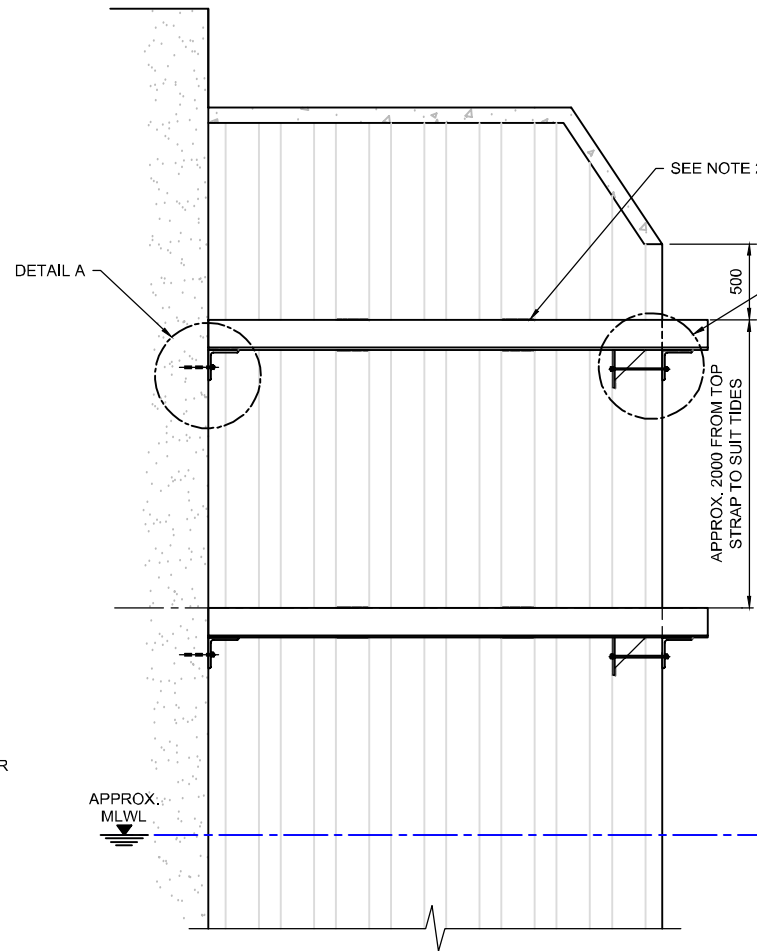


DETAIL A
SCALE 1:10

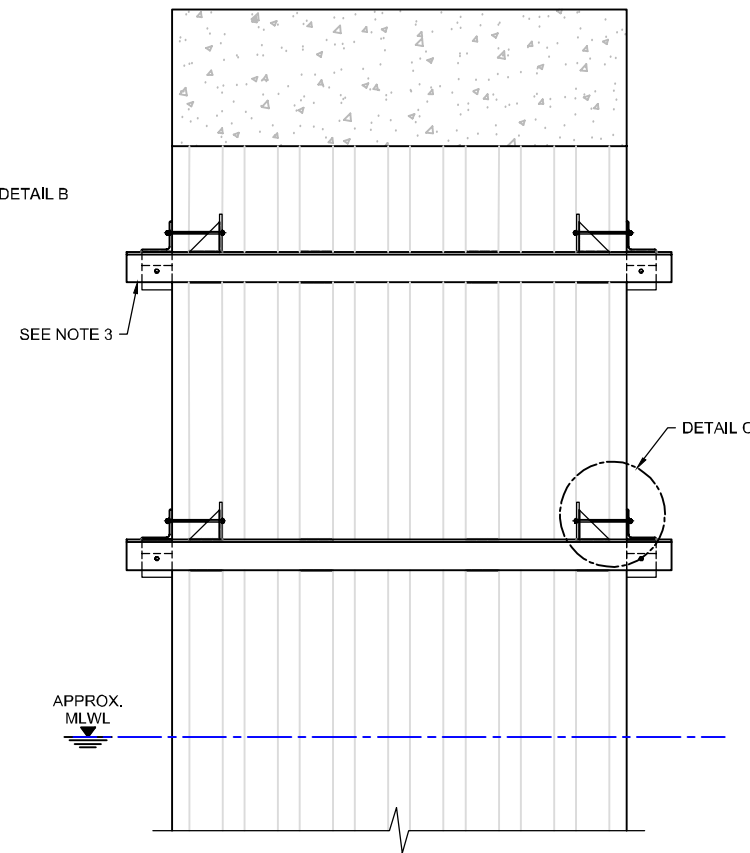
DETAIL C
SCALE 1:10



MOORING DOLPHIN PLAN
SCALE 1:50



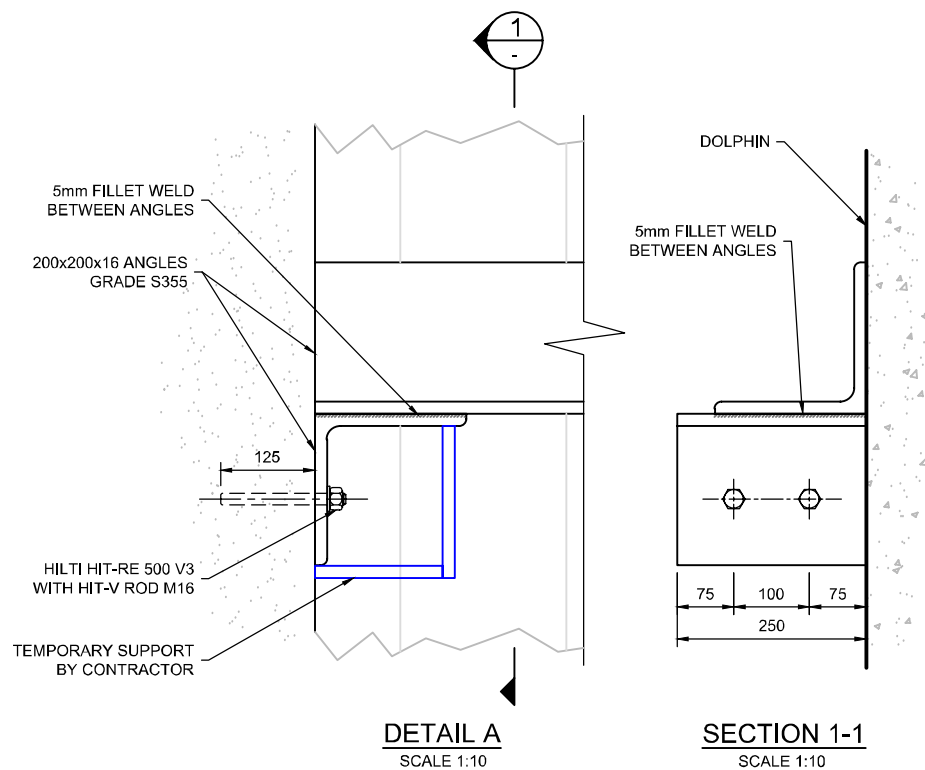
MOORING DOLPHIN WEST ELEVATION
SCALE 1:50



MOORING DOLPHIN SOUTH ELEVATION
SCALE 1:50

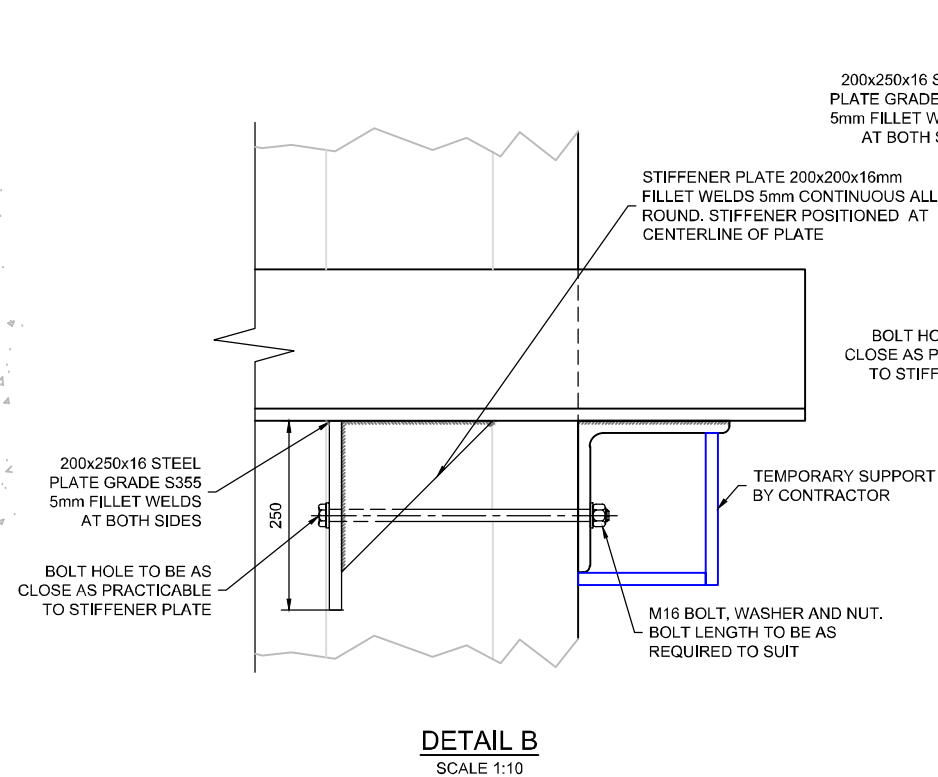
NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. 3mm FILLET WELDS TOP AND BOTTOM ON OUTPANELS 1, 3, 6 AND 8 ON ALL SIDES.
3. TRIM ANGLES AT EDGES AFTER CONNECTING THEM.
4. WELD TOGETHER ANY LOOSE SHEET PILES WITH 3mm WELDS.
5. TEMPORARY SUPPORTS USED FOR INSTALLATION OF ANGLES TO BE BY CONTRACTOR.
6. CONSTRUCTION SEQUENCE:
 - a. INSTALL TEMPORARY SUPPORTS.
 - b. PLACE ANGLES IN POSITION.
 - c. TIGHTEN BOLTS BETWEEN ANGLES TO BRING THEM TOGETHER.
 - d. WELD BETWEEN ANGLES AT CORNERS.
 - e. WELD BETWEEN SHEET PILES AND ANGLES.
7. ALL THE BOLTS ARE M16 GRADE 8.8. BOLTS ANCHORED IN CONCRETE TO BE HILTI HIT-RE 500V3 WITH HIT-V ROD M16 125mm EMBEDMENT LENGTH.
8. DOLPHIN STRUCTURE DIMENSIONS ARE NOT KNOWN. LENGTHS OF ANGLES ARE TO BE CONFIRMED BY CONTRACTOR. APPROXIMATE LENGTHS PROVIDED ON DRAWING.

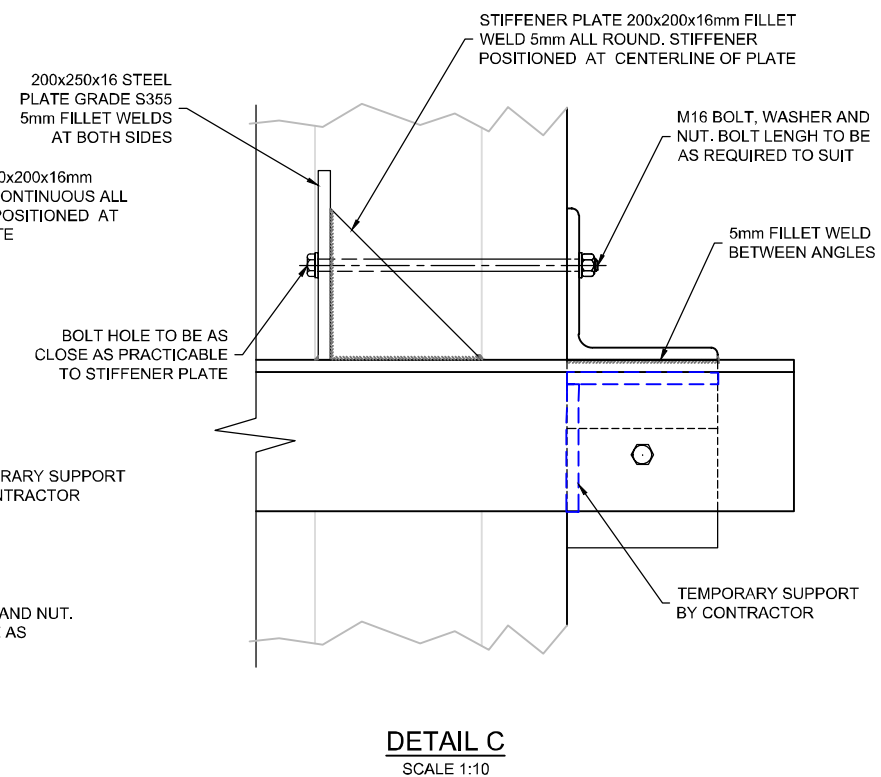


DETAIL A
SCALE 1:10

SECTION 1-1
SCALE 1:10



DETAIL B
SCALE 1:10



DETAIL C
SCALE 1:10

TENDER

Rev.	Date	Description	App'd
A	31-01-19	For Comment	DFM

ESSO PETROLEUM CO. LTD

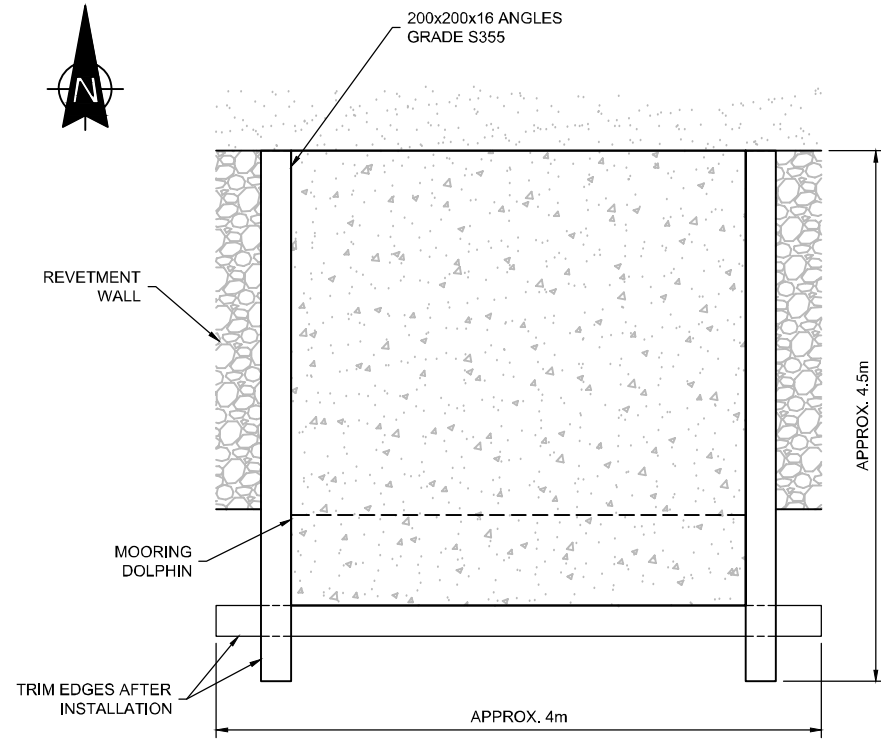
BOWLING TERMINAL STRAPPING DETAILS THREE-SIDED DOLPHINS MD4, MD5, MD7, MD9 & MD10

NIRAS
GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasfrankel.com
www.nirasfrankel.com

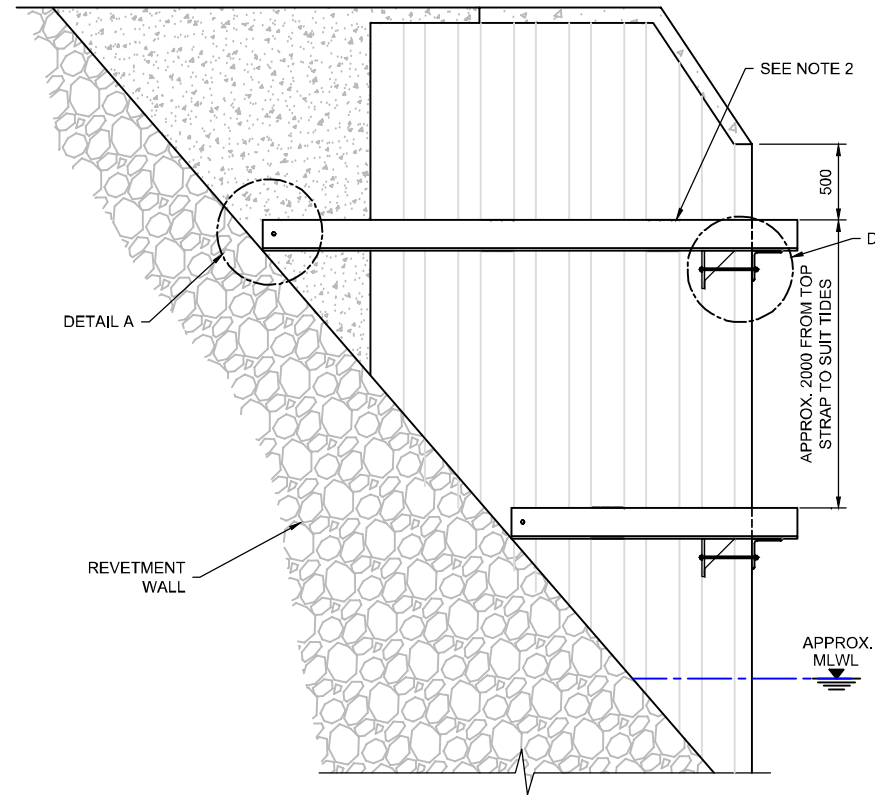
Drawn	Checked	Approved	Scale (at A3): As Shown
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-033

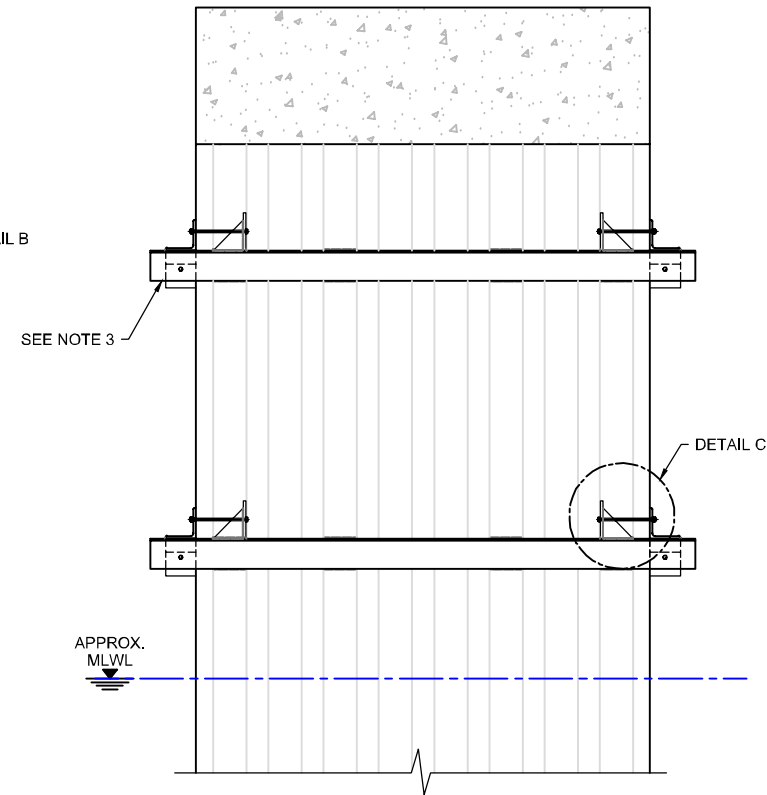
Rev A



MOORING DOLPHIN PLAN
SCALE 1:50



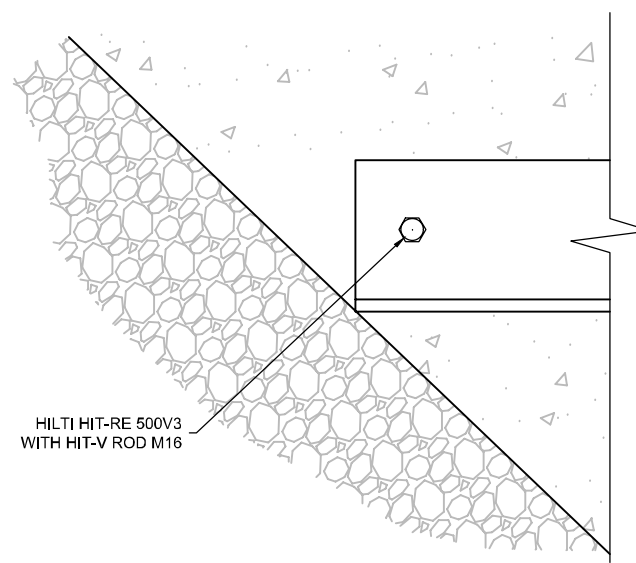
MOORING DOLPHIN WEST ELEVATION
SCALE 1:50



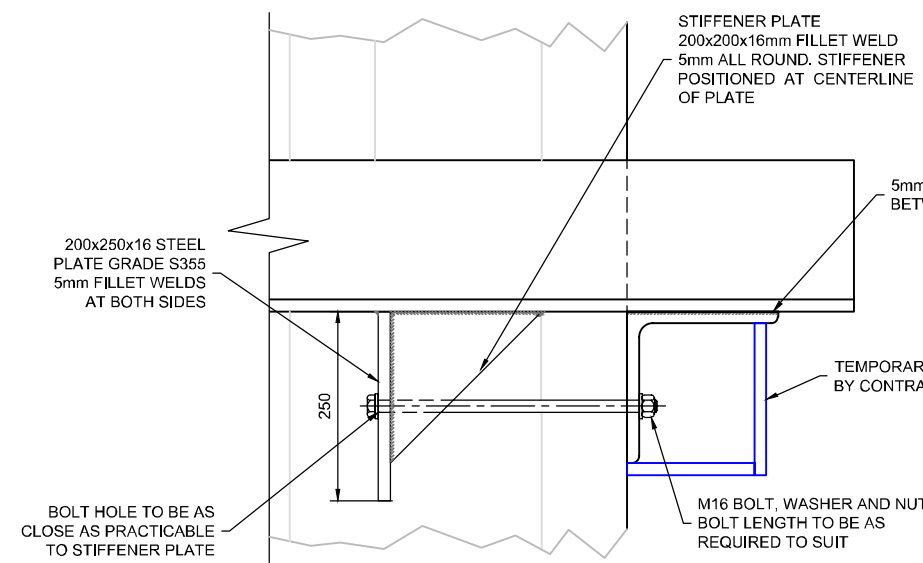
MOORING DOLPHIN SOUTH ELEVATION
SCALE 1:50

NOTES

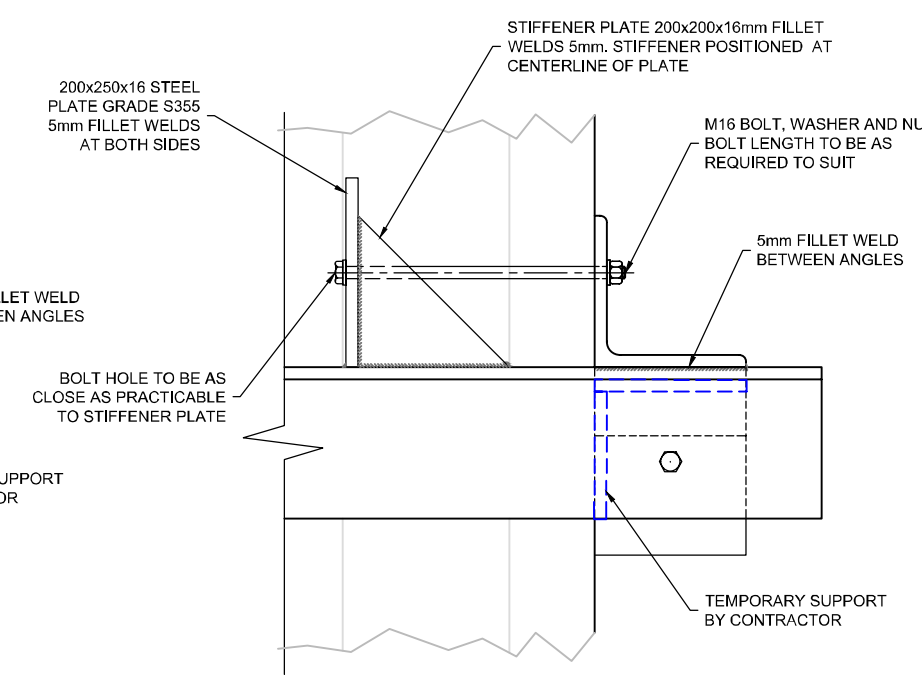
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. 3mm FILLET WELDS TOP AND BOTTOM ON OUTPANES 1, 3, 6 AND 8 ON ALL SIDES.
3. TRIM ANGLES AT EDGES AFTER CONNECTING THEM.
4. WELD TOGETHER ANY LOOSE SHEET PILES WITH 3mm WELDS.
5. TEMPORARY SUPPORTS USED FOR INSTALLATION OF ANGLES TO BE BY CONTRACTOR.
6. CONSTRUCTION SEQUENCE:
 - a. INSTALL TEMPORARY SUPPORTS.
 - b. PLACE ANGLES IN POSITION.
 - c. TIGHTEN BOLTS BETWEEN ANGLES TO BRING THEM TOGETHER.
 - d. WELD BETWEEN ANGLES AT CORNERS.
 - e. WELD BETWEEN SHEET PILES AND ANGLES.
7. ALL THE BOLTS ARE M16 GRADE 8.8. BOLTS ANCHORED IN CONCRETE TO BE HILTI HIT-RE 500V3 WITH HIT-V ROD M16 125mm EMBEDMENT LENGTH.
8. DOLPHIN STRUCTURE DIMENSIONS ARE NOT KNOWN. LENGTHS OF ANGLES ARE TO BE CONFIRMED BY CONTRACTOR. APPROXIMATE LENGTHS PROVIDED ON DRAWING.



DETAIL A
SCALE 1:10



DETAIL B
SCALE 1:10



DETAIL C
SCALE 1:10

TENDER

Rev.	Date	Description	App'd
A	31-01-19	For Comment	DFM

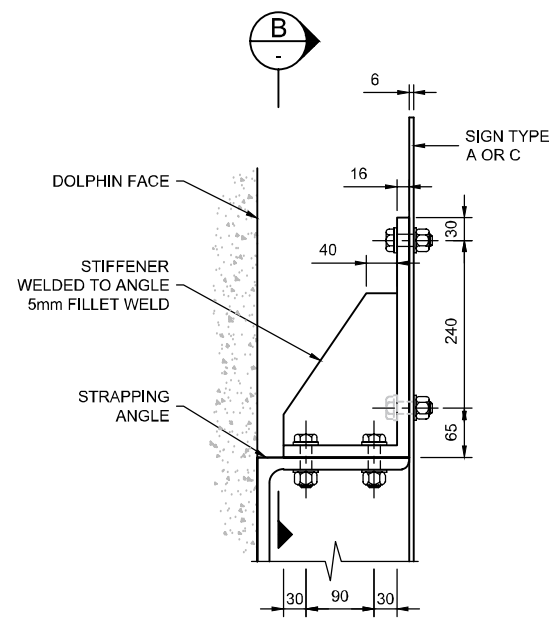
ESSO PETROLEUM CO. LTD

BOWLING TERMINAL
STRAPPING DETAILS
THREE-SIDED DOLPHINS
MD11, MD12 AND MD13

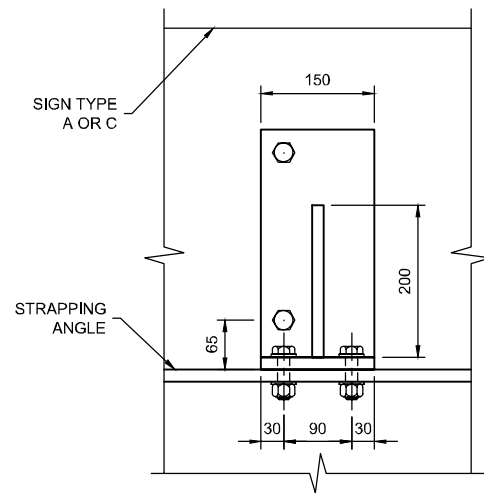
GLASGOW OFFICE
 Suite 18, Merlin House
 Hillington, Glasgow G52 4XZ
 Tel: 0141 882 6600
 glasgow@nirasraenkel.com
 www.nirasraenkel.com

Drawn	Checked	Approved	Scale (at A3): As Shown
MAP	PBA	DFM	Date: Jan 2019

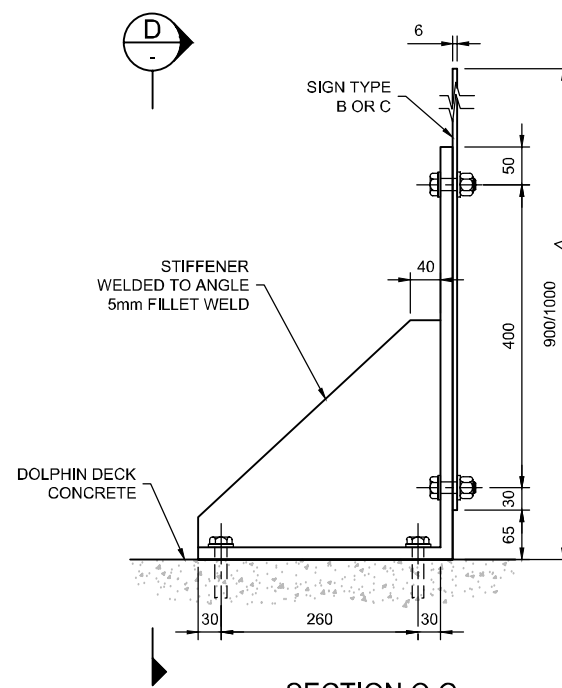
Drg No : 5427-034 Rev A



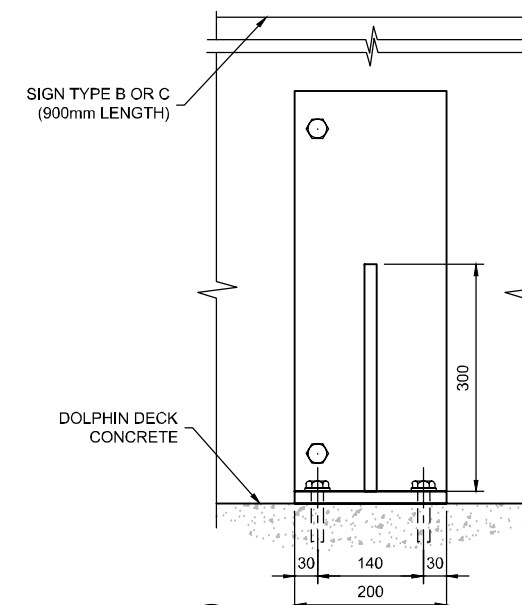
SECTION A-A



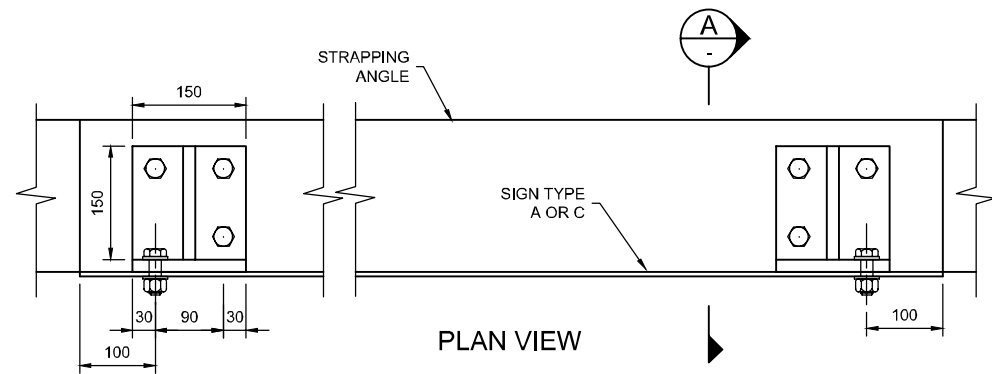
SECTION B-B



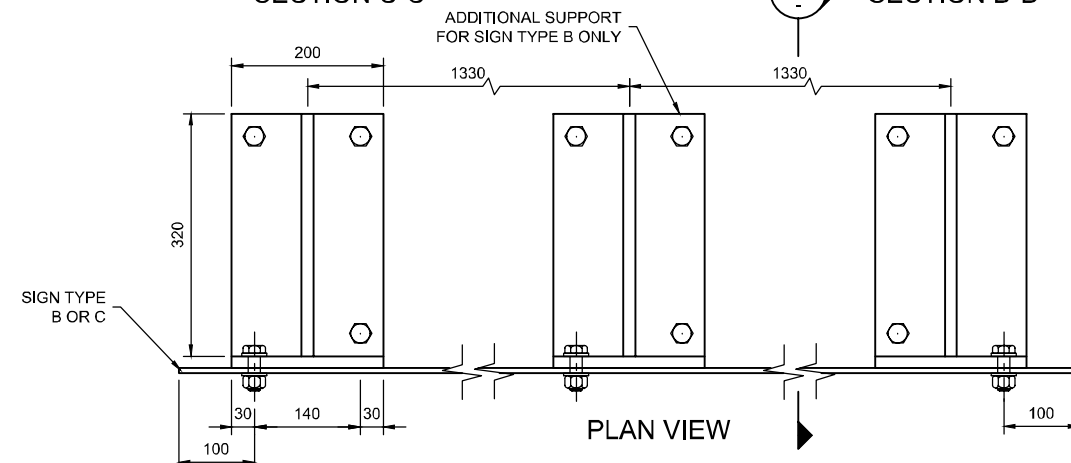
SECTION C-C



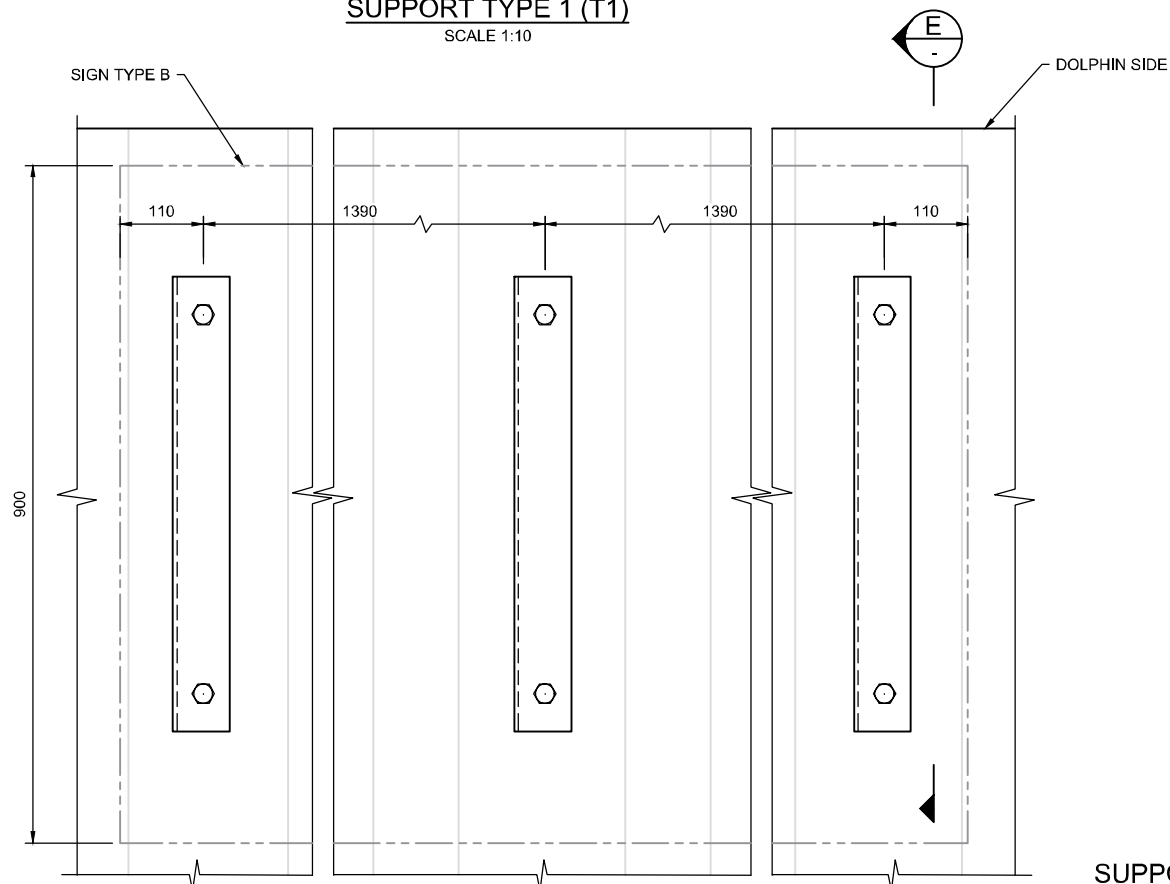
SECTION D-D



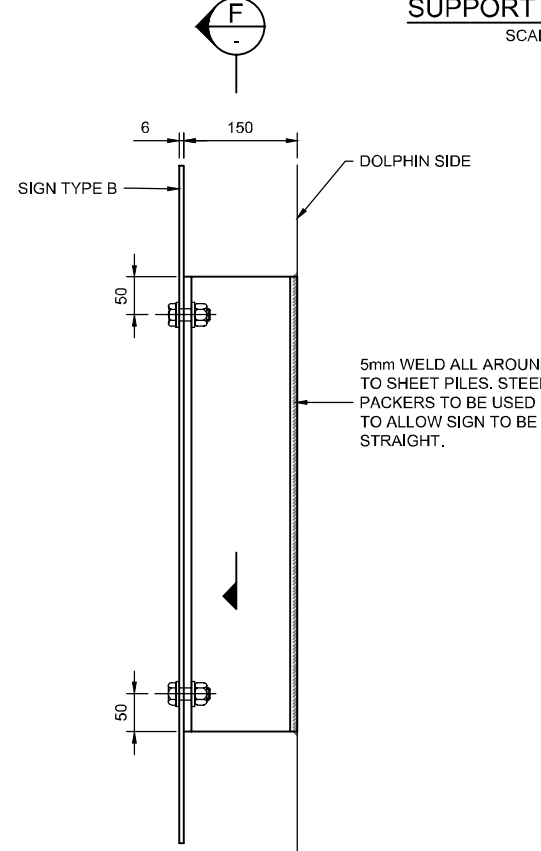
PLAN VIEW
SUPPORT TYPE 1 (T1)
SCALE 1:10



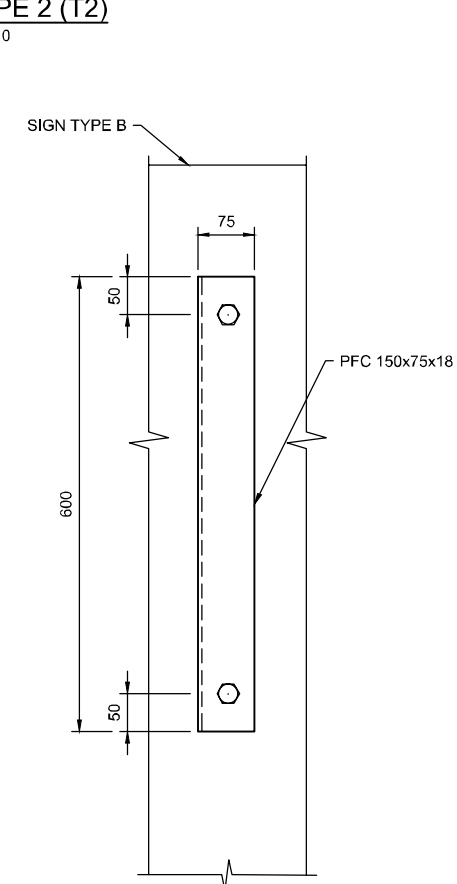
PLAN VIEW
SUPPORT TYPE 2 (T2)
SCALE 1:10



ELEVATION
SUPPORT TYPE 3 (T3)
SCALE 1:10



SECTION E-E



SECTION F-F

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL THE BOLTS ARE M16 GRADE 8.8. BOLTS ANCHORED IN CONCRETE TO BE HILTI HIT-RE 500V3 WITH HIT-V ROD M16 125mm EMBEDMENT LENGTH.
3. FIT SIGN SYMMETRICALLY ONTO SUPPORT.
4. USE RUBBER WASHERS WHERE REQUIRED TO AVOID CONTACT OF DIFFERENT METAL TYPES.
5. CONCRETE SURFACE FOR THE BOLT FIXINGS TO BE GROUTED AS REQUIRED TO MAKE FLUSH SURFACE FOR SIGN FIXINGS.
6. FOR SIGN DETAILS REFER TO THE TECHNICAL SPECIFICATIONS.
7. FOR SIGN TYPE D THEIR LAND SIDE POSITIONS AND FIXINGS ARE TO BE AGREED WITH SUPERVISOR AND EMPLOYER.
8. SIGNS TO BE REINFORCED, SUCH AS USING STEEL CHANNELS OR ANGLES ALONG THE SIGN AT APPROPRIATE VERTICAL CENTRES SUFFICIENTLY TO ACCOMMODATE WIND SPEED OF 25.5m/s IN ACCORDANCE TO THE STANDARDS FOR HIGHWAY. SIGN AND THEIR REINFORCEMENT TO BE AS PER MANUFACTURERS AND BS EN 12899.
9. SIGNS TO BE NON-REFLECTIVE AND ADEQUATE FOR MINIMUM 10 YEARS.

TENDER

Rev.	Date	Description	App'd
B	01-02-19	For Comment	DFM
A	31-01-19	For Comment	DFM

ESSO PETROLEUM CO. LTD

BOWLING TERMINAL
SIGN FIXINGS DETAILS
SHEET 1 OF 2

NIRAS
GLASGOW OFFICE
Suite 18, Merlin House
Hillington, Glasgow G52 4XZ
Tel: 0141 882 6600
glasgow@nirasraenkel.com
www.nirasraenkel.com

Drawn	Checked	Approved	Scale (at A3): 1:10
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-035 Rev B

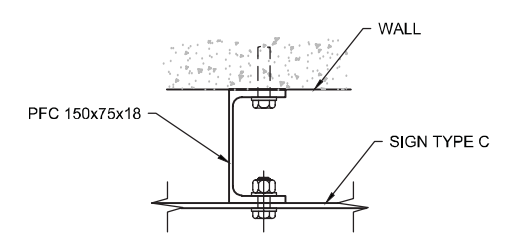
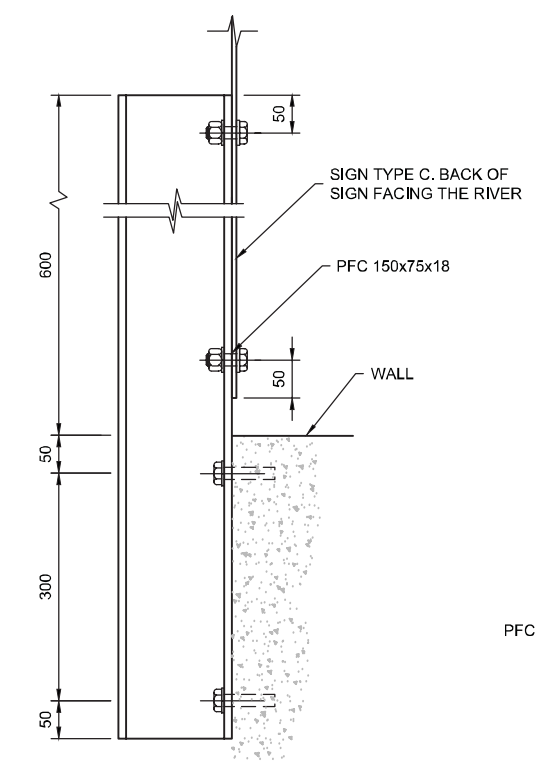
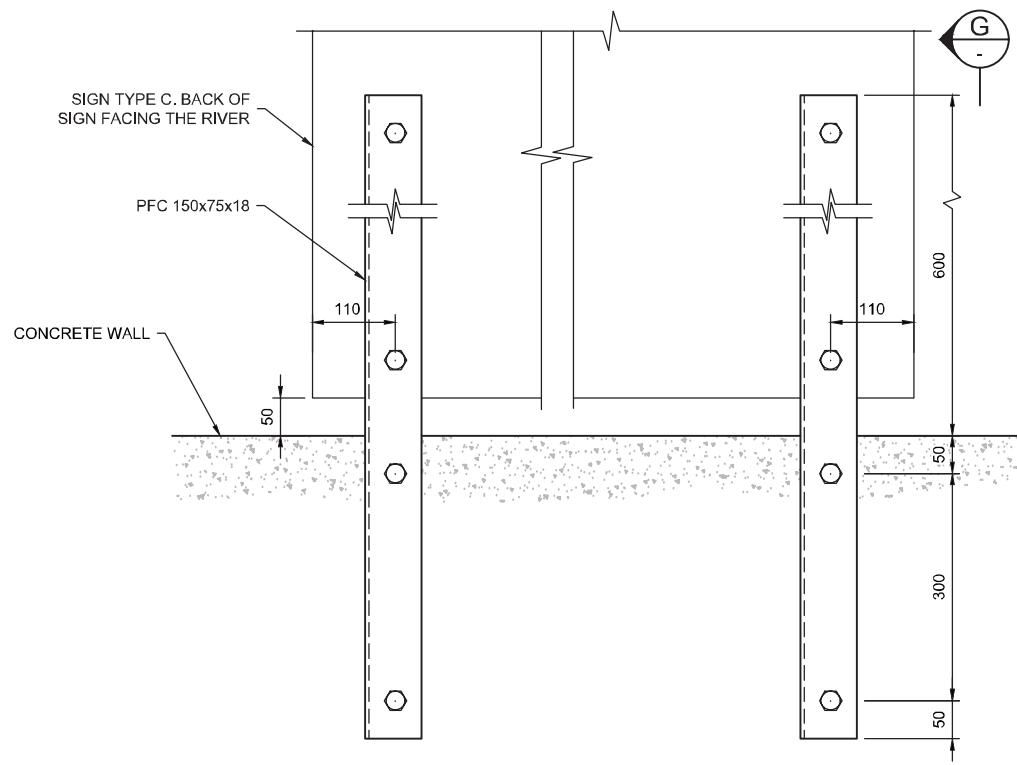
SIGN TYPE AND QUANTITY	Structure	MD1				MD2				MD3				BD1				BD2				JH1				SS1				SS2							
		South	East	West	North	South	East	West	North	South	East	West	North	South	East	West	North	South	East	West	North	South	East	West	North	South	East	West	North	South	East	West	North				
A		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0																	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
B														1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0												
C																																					
FIXING TYPE	T1- AS PER DRG	X	X	X	X	X	X	X	X	X	X	X	X																								
	T2 -AS PER DRG																	X				X															
	T3 - AS PER DRG																																				
	T4 - AS PER DRG																																				
	T5- SIGN BOLTED INTO CONCRETE *																	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X				
	T6 - SIGN CLAMPED ON PALISADE FENCE **																																				

SIGN TYPE AND QUANTITY	Structure	BD3	BD4	JH2	JHA2-1	JHA2-2	MD6				MD8				MD4		MD5		MD7		MD9		MD10		MD11		MD12		MD13		MD14				J1	QW
							South	East	West	North	South	East	West	North	South	North	South	North	South	North	South	North	South	North	South	North	South	North	South	North	South	East	West	North		
A							1.0	1.0	1.0		1.0	1.0	1.0																		1.0	1.0	1.0		3.0	2.0
B		8.0	8.0	8.0																																
C					2.0	2.0								1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0					1.0			
FIXING TYPE	T1- AS PER DRG																X	X	X	X	X	X	X	X	X	X	X	X								
	T2 -AS PER DRG																	X	X	X	X	X	X	X	X	X	X	X								
	T3 - AS PER DRG	X	X	X																																
	T4 - AS PER DRG														X																					
	T5- SIGN BOLTED INTO CONCRETE *				X	X	X	X	X	X	X	X	X																X	X	X		X	X		
	T6 - SIGN CLAMPED ON PALISADE FENCE **										X				X																		X	X		

NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL THE BOLTS ARE M16 GRADE 8.8. BOLTS ANCHORED IN CONCRETE TO BE HILTI HIT-RE 500V3 WITH HIT-V ROD M16 125mm EMBEDMENT LENGTH.
- FIT SIGN SYMMETRICALLY ONTO SUPPORT.
- USE RUBBER WASHERS WHERE REQUIRED TO AVOID CONTACT OF DIFFERENT METAL TYPES.
- CONCRETE SURFACE FOR THE BOLT FIXINGS TO BE GROUTED AS REQUIRED TO MAKE FLUSH SURFACE FOR SIGN FIXINGS.
- FOR SIGN DETAILS REFER TO THE TECHNICAL SPECIFICATIONS.
- FOR SIGN TYPE D THEIR LAND SIDE POSITIONS AND FIXINGS ARE TO BE AGREED WITH SUPERVISOR AND EMPLOYER.
- SIGNS TO BE REINFORCED, SUCH AS USING STEEL CHANNELS OR ANGLES ALONG THE SIGN AT APPROPRIATE VERTICAL CENTRES SUFFICIENTLY TO ACCOMMODATE WIND SPEED OF 25.5m/s IN ACCORDANCE TO THE STANDARDS FOR HIGHWAY. SIGN AND THEIR REINFORCEMENT TO BE AS PER MANUFACTURERS AND BS EN 12899.
- SIGNS TO BE NON-REFLECTIVE AND ADEQUATE FOR MINIMUM 10 YEARS.

- NOTES
 * FOR BOLT DETAILS REFER TO NOTE 2.
 ** CLAMP TO BE A PROPRIETARY SYSTEM AND DETAILS TO BE AS PER MANUFACTURERS.



MD4 - SIGN FACING ROAD SIDE ONLY
SUPPORT TYPE 4 (T4)
 SCALE 1:10

TENDER

C	06-02-19	For Comment	DFM
B	01-02-19	For comment	DFM
A	31-01-19	For comment	DFM
Rev.	Date	Description	App'd

ESSO PETROLEUM CO. LTD

BOWLING TERMINAL
SIGN FIXINGS DETAILS
 SHEET 2 OF 2

NIRAS
 GLASGOW OFFICE
 Suite 18, Merlin House
 Hillington, Glasgow G52 4XZ
 Tel: 0141 882 6600
 glasgow@nirasraenkel.com
 www.nirasraenkel.com

Drawn	Checked	Approved	Scale (at A3): 1:10
MAP	PBA	DFM	Date: Jan 2019

Drg No : 5427-036

Appendix C - Comments from Consultees

Townsend, Nick

From: navigation safety <navigationsafety@mcga.gov.uk>
Sent: 25 May 2023 15:19
To: Townsend, Nick
Subject: RE: 20230517_FORMER
_BOWLING_TERMINAL_BOWLING_MARINE_LICENSE_APPLICATION_PAC

Follow Up Flag: Follow up
Flag Status: Flagged

Dear Nick,

The Maritime and Coastguard Agency (MCA) is a statutory consultee and/or primary advisor to the Marine Licensing regulators throughout the UK. We have a variety responsibility including the safety of navigation, search and rescue, environmental quality and counter pollution, ship standards and seafarer safety and health. This is undertaken through a range of regulations and guidance, including as a coastal State under the International Maritime Organization's International Convention for the Safety of Life at Sea, 1974 (SOLAS), and under the Merchant Shipping Act 1995, as amended.

The MCA is consulted on all Marine Licence applications under Marine (Scotland) Act 2010, and we consider the impact of any works or deployments in the marine environment on the safety of navigation and emergency response. We would always expect the application form to include consideration of the impact on safety, other marine users, and the potential risk mitigation measures, relative to the scale of the works.

The MCA provides a series of conditions and advisories to ensure the safety of navigation can be maintained during the construction and decommissioning of the works, and during the site operational phase. We note that the works fall within the jurisdiction of a Statutory Harbour Authority (SHA) - Clydeport Operations Ltd and therefore they are responsible for the safety of navigation within their waters.

If you require any further information from the MCA with regards to our role in the licensing and consenting process, please let me know.

Kind Regards

Sam Chudley

Maritime Licence Advisor +44 [Redacted]
Marine Licensing and Consenting
UK Technical Services Navigation Sam.Chudley@mcga.gov.uk



Maritime &
Coastguard
Agency

Maritime & Coastguard Agency

Bay 2/25, Spring Place
105 Commercial Road,
Southampton SO15 1EG



Safer Lives, Safer Ships, Cleaner Seas
www.gov.uk/mca

Townsend, Nick

From: Dave Lang <Dave.Lang@nature.scot>
Sent: 18 May 2023 13:19
To: Townsend, Nick
Cc: Dinsdale, Hazel
Subject: RE: 20230517_FORMER
_BOWLING_TERMINAL_BOWLING_MARINE_LICENSE_APPLICATION_PAC

All sounds good/appropriate Nick.

I suppose one positive is that it doesn't look from the figures like (? – famous last words) you will have to be in about Dunglass Basin in the winter months, as we have seen that this is a significant resource for the redshank in times of bad weather.

But even if that's not the case, so long as the ECoW is empowered to hold off works within 150m if they are using it then we should be fine for the HRA.

Thanks you for keeping me up to speed.

Dave Lang
Operations Officer
NatureScot – West Central Scotland

From: Townsend, Nick <Nick.Townsend@wsp.com>
Sent: 17 May 2023 13:05
To: Dave Lang <Dave.Lang@nature.scot>
Cc: Dinsdale, Hazel <Hazel.Dinsdale@wsp.com>
Subject: 20230517_FORMER_BOWLING_TERMINAL_BOWLING_MARINE_LICENSE_APPLICATION_PAC

MARINE (Scotland) ACT 2010, PART 4 MARINE LICENSING - Public Pre-Application Consultation

Hi Dave

Further to guidance from Marine Scotland, as part of the Pre-Application Consultation (PAC), I write to advise that it is the intention of WSP, acting on behalf of our client Esso Petroleum Company, Limited (Esso), to submit an application for a marine licence for a prescribed activity to MS-LOT.

The proposed activity involves works to undertake routine maintenance of the marine structures (located at the western end of the site) associated with historic operation as a terminal site. The plan below illustrates the structures in question.

I have also attached a site location plan and a summary of the proposed works; as you will note the works predominantly involve removal of redundant furniture (e.g. wooden fenders, bollards, access ladders) and the erection of signage, with some limited engineering works (installation of strapping). The objective of the maintenance works is to prevent uncontrolled access and make the structures safe.

As per the attached public notice, a Pre-Application Consultation event will be held on the 5th July at the Abbotsford Hotel (Leven Suite), Stirling Road, Dumbarton, G82 2PJ between 08:00 & 18:00, to allow attendees to consider and comment on the proposed works

Townsend, Nick

From: Pauline McGrow <Pauline.McGrow@ryascotland.org.uk>
Sent: 18 May 2023 20:08
To: Townsend, Nick
Subject: RE: 20230517_FORMER
_BOWLING_TERMINAL_BOWLING_MARINE_LICENSE_APPLICATION_PAC

Hi Nick,

Many thanks for your email. I write to inform you that RYA Scotland have no comments that we wish to make on the pre application.

Kind Regards

Pauline

Pauline McGrow
Senior Administrator
Mob: [Redacted]

Royal Yachting Association Scotland
T: 0131 317 7388
E: pauline.mcgrow@ryascotland.org.uk



RYA Scotland, Caledonia House, 1 Redheughs Rigg, South Gyle, Edinburgh, EH12 9DQ
T: 0131 317 7388, Fax: 0844 556 9549

Protecting your personal information is important to us, view our full Privacy Statement [here](#)



From: Townsend, Nick <Nick.Townsend@wsp.com>
Sent: 17 May 2023 12:44
To: Caroline Baxter <Caroline.Baxter@peelports.com>; Pauline McGrow <Pauline.McGrow@ryascotland.org.uk>;
Pauline McGrow <Pauline.McGrow@ryascotland.org.uk>; nmoccontroller@hmcg.gov.uk; gillian.burns@nlb.org.uk;
navigation@nlb.org.uk; navigationsafety@mcga.gov.uk; infoline@mcga.gov.uk

Townsend, Nick

From: Gillian Burns <Gillian.Burns@nlb.org.uk>
Sent: 19 May 2023 10:07
To: Townsend, Nick
Cc: Dinsdale, Hazel
Subject: RE: [EXT] 20230517_FORMER
_BOWLING_TERMINAL_BOWLING_MARINE_LICENSE_APPLICATION_PAC
Attachments: PJMS_014_23.docx

Dear Nick,

Thank you for your PAC notification relating to the proposed maintenance works at the Bowling Terminal, River Clyde, NLB are not able to attend your event on 5th July and have prepared the attached response.

We will respond likewise to your future Marine Scotland Licence application unless there are any major deviations to the proposed works.

If you need further assistance please come back to us.

Best wishes,

Gillian

Official - Northern Lighthouse Board Email

Gillian Burns
Navigation Officer
NLB Navigation, 84 George Street, Edinburgh, EH2 3DA
[Redacted]
Gillian.Burns@nlb.org.uk
www.nlb.org.uk



Our mission: To deliver in the most sustainable way practicable, a reliable, efficient and cost-effective Aids to Navigation service for the benefit and safety of all Mariners.

Our values: Safety, Pride, Integrity, Teamwork, Fairness, Innovation, Respect, Environment

Follow NLB on:



From: Townsend, Nick <Nick.Townsend@wsp.com>
Sent: Wednesday, May 17, 2023 12:44 PM
To: Caroline Baxter <Caroline.Baxter@peelports.com>; admin@ryascotland.org.uk;
pauline.mcgrow@ryascotland.org.uk; NMOCcontroller <NMOCcontroller@hmcg.gov.uk>; Gillian Burns
<Gillian.Burns@nlb.org.uk>; navigation <navigation@nlb.org.uk>; navigationsafety@mcga.gov.uk;
infoline@mcga.gov.uk



Northern Lighthouse Board

84 George Street
Edinburgh EH2 3DA

Tel: 0131 473 3100
Fax: 0131 220 2093

Website: www.nlb.org.uk
Email: enquiries@nlb.org.uk

Your Ref: Email dated 17/05/23
Our Ref: GB/ML/PJMS_014_23

Nick Townsend
Associated Director
WSP in the UK
1 Capital Quarter
Tyndall St
Cardiff
CF10 4BZ

18 May 2023

MARINE LICENSING (PRE-APPLICATION CONSULTATION) (SCOTLAND) REGULATIONS 2013

Esso Petroleum Company Limited – Maintenance of Marine Structures – West End of the Former Bowling Terminal, Bowling, River Clyde

Thank you for your e-mail correspondence dated 17th May 2023 regarding the pre-application consultation submitted by WSP in the UK on behalf of Esso Petroleum Company Limited to undertake maintenance of marine structures associated with the former Bowling Terminal at Bowling, River Clyde.

Northern Lighthouse Board have no objection to the proposed works and will respond to the Marine Licence application in due course, however, advise the following:

- Liaise with Peel Ports (Clydeport) Ltd regarding the issue of Notices to Mariners as needed throughout the project informing of the scope and timeframe of the works.

Yours sincerely

[Redacted]

Peter Douglas
Navigation Manager

NLB respects your privacy and is committed to protecting your personal data.
To find out more, please see our Privacy Notice at www.nlb.org.uk/legal-notice/