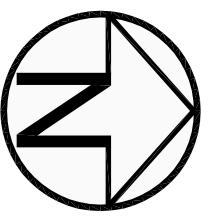
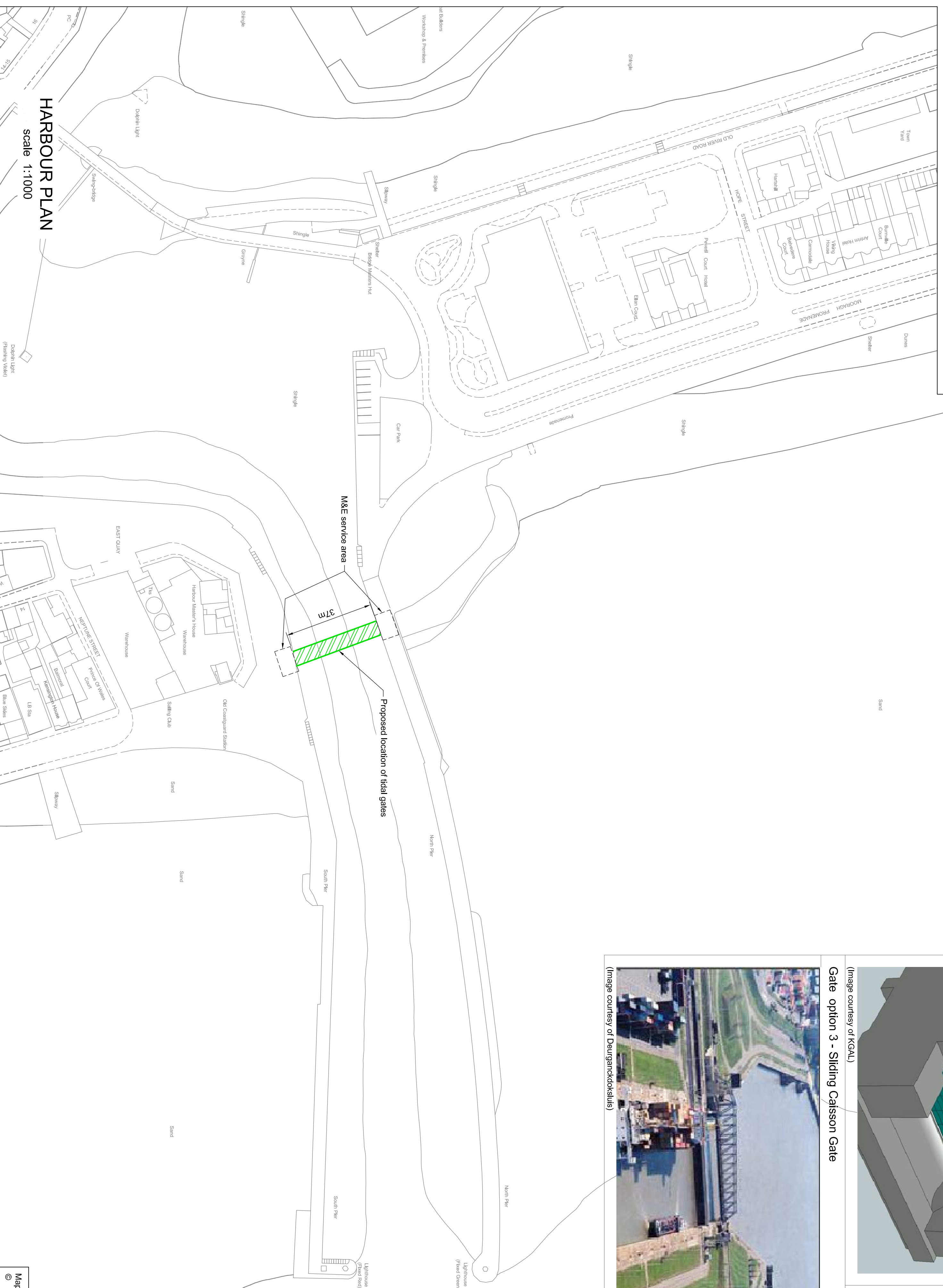


LOCATION PLAN
scale 1:50000

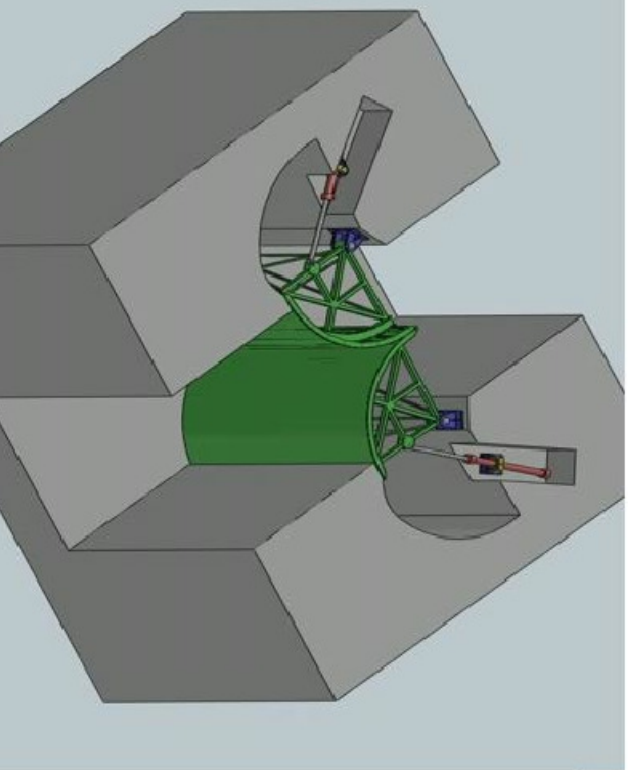


- Notes:
- Feasibility of gate options considered at a conceptual level
 - Standard of protection (SWL) - 1 in 200-year in 2115
 - Standard of protection (Flood) - 1 in 20-year in 2015
 - Possible gate types include vertical sector gates and rising sector gates
 - Service Information unknown
 - Ground conditions unknown



HARBOUR PLAN
scale 1:1000

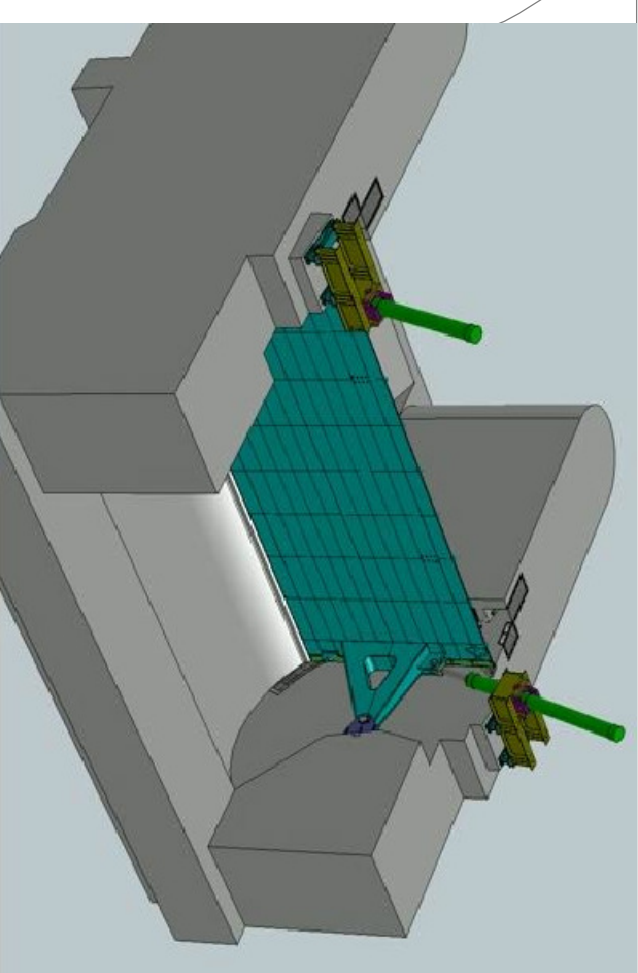
Gate option 1 - Sector Gates



- Restricted access and egress through narrow streets around Ramsey Harbour
- Working in an exposed coastal environment
- Working at height
- Unknown ground conditions
- Unknown condition and structural capacity of existing quay wall
- Services information currently unknown

- Pollution hazards associated with working near the sea
- Pollution of harbour with construction debris
- Risk of damage to flora and fauna

Gate option 2 - Rising Sector Gates



(Image courtesy of U.S. Army Corps of Engineers)

- Working adjacent to public right of way (promenade and harbour)
- Risk of damage to flora and fauna

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, the following hazards/risks are identified on this drawing, which will be carried out by a competent contractor working, where appropriate, to an appropriate method statement.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX

General Notes

- All dimensions shown are in metres unless otherwise stated and levels are in metres to Douglas02 Datum.
- Do not scale from this drawing. All dimensions must be checked/verified on site.
- Drawing to be read in conjunction with IOM-JBA-R-H-DR-C-01
- All works in watercourses will be carried out with care to minimise the risk of pollution adhering to Pollution Prevention Guidelines.
- All works affecting flood defences, main watercourses and/or ordinary watercourses requires a Licence from the Environment Agency under the Land Drainage Act 1993.
- The locations of any known services shown on drawing are approximate and for guidance only. The Contractor will confirm the location of any services prior to the commencement of any works.
- The electronic model of this drawing is not to be used for setting out.

Gate option 3 - Sliding Caisson Gate



(Image courtesy of JHI Infrastructure Systems Co)

(Image courtesy of Deurgandekedde)is)

| Comments | Rev.: | Date | Drawn | Designed | Checked | Approved |
|------------------|-------|------|-------|----------|---------|----------|
| Comments | Rev.: | Date | Drawn | Designed | Checked | Approved |
| Comments | Rev.: | Date | Drawn | Designed | Checked | Approved |
| Comments | Rev.: | Date | Drawn | Designed | Checked | Approved |
| Client Approval | Rev.: | Date | Drawn | Designed | Checked | Approved |
| Purpose of Issue | Rev.: | Date | Drawn | Designed | Checked | Approved |

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ISLE OF MAN GOVERNMENT - SEA DEFENCE OPTIONS
RAMSEY
TIDAL GATE OPTION
for _____
DEPARTMENT OF INFRASTRUCTURE

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|--------------------|---------------------|----------------------|----------|
| Scale: | As shown @ A1 | Drawer: M.J. Skirner | 20/10/14 |
| Checked: G. Kern | Approved: G. Kern | 10/10/14 | 28/11/14 |
| Digital File Name: | 2014s1358 | 27/11/14 | |
| Drawing Number: | IOM-JBA-R-H-DR-C-03 | Revision | |

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