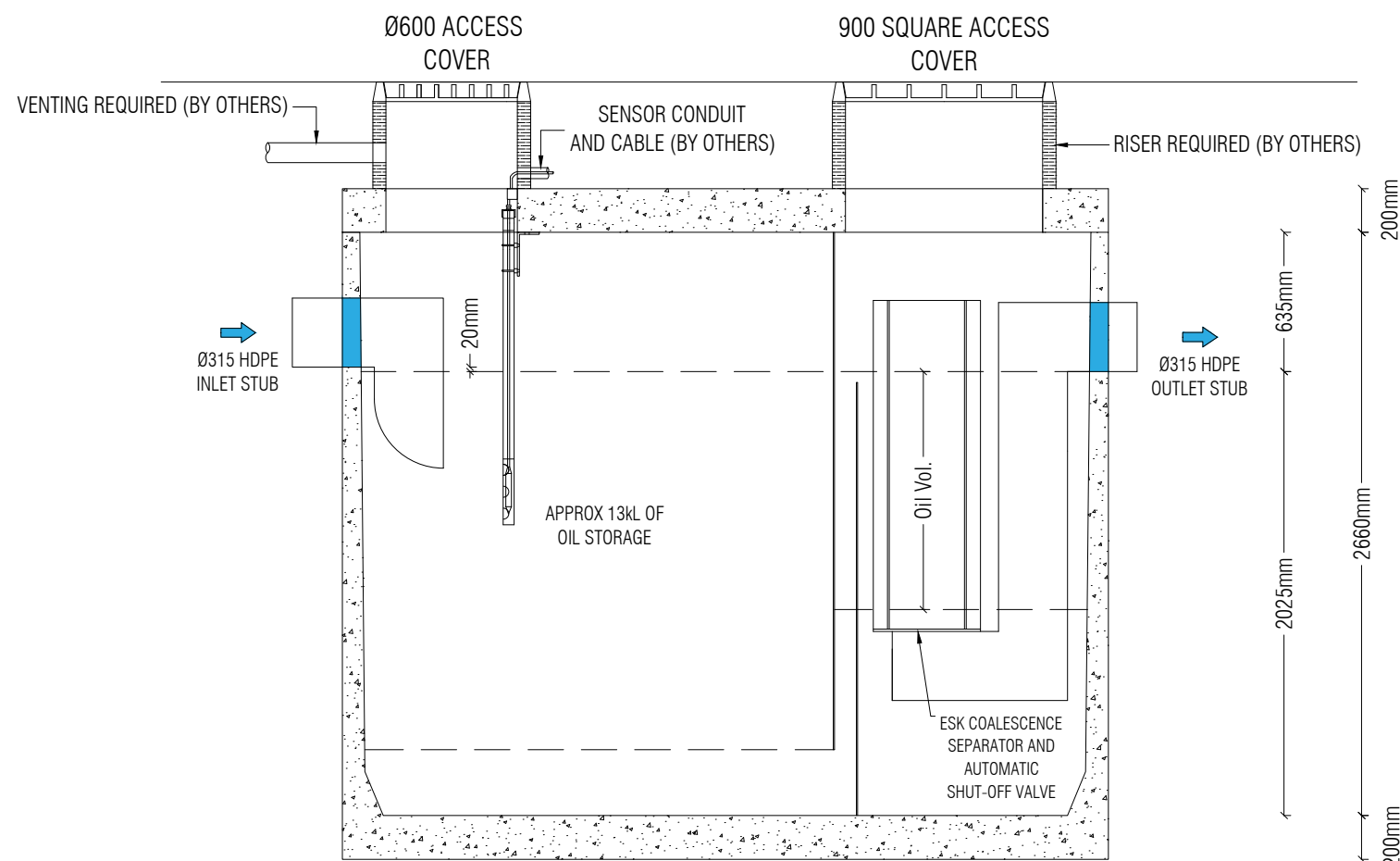


**PLAN**



**SECTION**

**ESK 100**

## ESK DESIGN NOTES

THE ESK IS A PASSIVE HIGH EFFICIENCY COALESCING SEPARATOR THAT REMOVES FREE OIL FROM CONTAMINATED STORMWATER RUNOFF AND HAS A BUILT-IN SHUTOFF VALVE TO PREVENT SPILLS AND STORAGE CAPACITY EXCESS EXITING THE DEVICE. THE DEVICE IS IDEALLY SUITED FOR SITES WHERE SPECIFIC EFFLUENT TARGETS ARE SPECIFIED, OR FOR SITES WHERE REMOVAL OF OIL AND GREASE IS THE GREATEST CONCERN E.G. FUEL STATION, AROUND TRANSFORMERS, CAR SERVICING WORKSHOPS, ETC. IT IS TYPICALLY SIZED TO REMOVE OIL DROPLETS AS SMALL AS 10 MICRONS AND ACHIEVE AN EFFLUENT CONCENTRATION OF 5MG/L OR LESS.

## SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	XXX
TREATMENT FLOW RATE	100L/s
CATCHMENT AREA	XXX
HYDROCARBON SPECIFIC GRAVITY (SG)	0.85 OR LESS
MINIMUM OIL STORAGE (L)	13kL
EXTERNAL INLET/OUTLET PIPE SIZE	Ø315

PIPE DATA:	I.L. / R.L.	MATERIAL	DIAMETER
INLET PIPE #1	XXX	HDPE	315
OUTLET PIPE	XXX	HDPE	315
ACCESS COVER LEVEL (RL)	XXX	N/A	N/A
PIPE CONNECTIONS	BY OTHERS		

## GENERAL NOTES:

- OCEAN PROTECT TO PROVIDE ALL MATERIAL AND TANK PENETRATIONS UNLESS NOTED OTHERWISE.
- FOR SITE SPECIFIC DRAWING WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR OCEAN PROTECT CONSULTANT VIA [www.OCEANPROTECT.com.au](http://www.OCEANPROTECT.com.au), or 1300 354 722.
- PRECAST STRUCTURE TO BE CONSTRUCTED BY OCEAN PROTECT AUSTRALIA IN ACCORDANCE WITH AS3600.
- STRUCTURE AND ACCESS COVERS DESIGNED TO MEET AUSTRROADS T44 LOAD RATING WITH 0.0m TO 2.0M FILL MAXIMUM (CLASS D).
- THE STRUCTURE THICKNESS MEASUREMENTS SHOWN ARE FOR REPRESENTATIONAL PURPOSES ONLY.
- DEVICE IS TO CONTAIN A COALESCENCE SEPARATION COLUMN TOGETHER WITH AUTOMATIC OUTFLOW CLOSURE VALVE THAT ACTIVATES WHEN THE LIMIT OF OIL STORED IN THE SEPARATOR IS REACHED.
- ESK SYSTEM IS DESIGNED AS A CLASS1 COALESCENCE SEPARATOR AS PER BNES858-1:2002.
- OIL ALARM INCLUDED AS REQUESTED

## INSTALLATION NOTES:

- SIZE AND CLASS OF PIPE OR SQUARE KNOCKOUT SIZE TO BE SPECIFIED ON DRAWING BY CLIENT / CONTRACTOR.
- ADDITIONAL RISERS TO BE PROVIDED BY CONTRACTOR (IF REQUIRED)
- ANY BACKFILL DEPTH, SUB-BASE, AND OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS SHALL BE SPECIFIED BY THE ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPES.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT DEVICE FROM CONSTRUCTION-RELATED EROSION RUNOFF.



PHONE: 1300 354 722

[www.oceanprotect.com.au](http://www.oceanprotect.com.au)

OCEAN PROTECT

ESK100 COALESCENCE OIL/WATER SEPARATOR  
13kL MANHOLE CONFIGURATION  
GENERAL ARRANGEMENT

DRAWING

1

A

DATE: 08-03-19

FILE NAME: ESK100-GA-BAF-1A

DRN:J.S

CHK:WJ