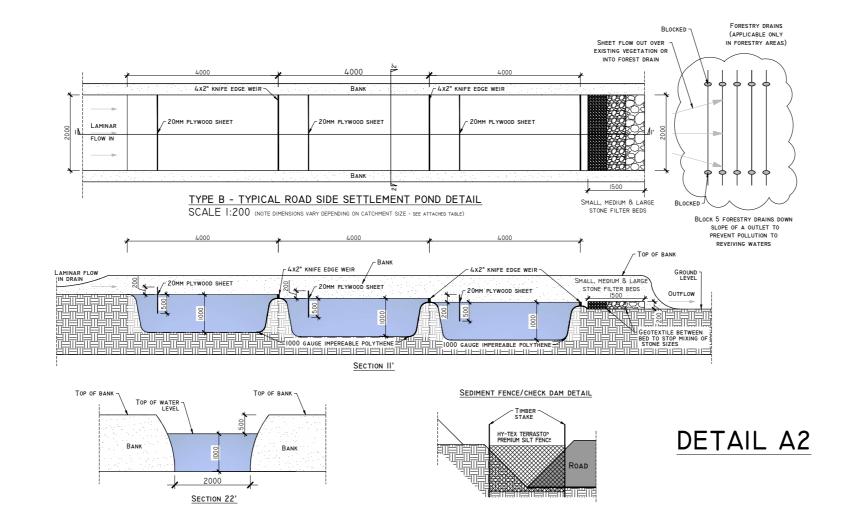
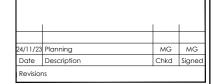


# DETAIL AI

| POND SI                      | ZE W [M] X L [M] | x D [m]        | CA             | ATCHMENT SIZE (N | 12)            |
|------------------------------|------------------|----------------|----------------|------------------|----------------|
| RETURN PERIOD 50 YRS         |                  | STORM DURATION | 500            | 1000             | 2000           |
| 6HR RETENTION I              | FOR COARSE SILT  | 6 HRS          | 2.8 x 9 x l m  | 4 x 13 x 1 m     | 5.7 x 18 x 1 m |
| IIHR RETENTION               | FOR MEDIUM SILT  | 12 HRS         | 3.2 x 10 x 1 m | 4.5 x I4 x I M   | 6.4 x 20 x l m |
| 24HR RETENTION FOR FINE SILT |                  | 24 HRS         | 3.5 x II x I m | 5 x l6 x l m     | 7 x 22 x l m   |

EMBANKMENTS TO BE CONSTRUCTED T FROM SUITABLE EXCAVATED MATERIALS. POST CONSTRUCTION PERMENANT WATER LEVEL > OUTFLOW CONTROL LEVEL -TO BE SET 500MM BELOW TOP OF GABION PHASE EMBANKMENT MATERIALS TO BE USED TO INFILL POND.
PHASING OF INFILL TO BE AGREED
WITH SUDS DESIGNER GABION BASKET MAIN SETTLEMENT POND SEDIMENT FOREBAY, 11250 3000 OUT REGULARLY DISCHARGE COLLECTOR DITCH 1000 BED SLOPE 1:50MAX ACCESS TRACK 800 8 - INVERT OF -100mm single sized stone INLET PLACED AT ENTRANCE TO SETTLEMENT POND AND AND WITHIN FOREBAY AREA - GEOTEXTILE SILT WILL COLLECT IN THE BASE OF THE SETTLEMENT POND. THIS WILL HAVE TO BE CLEANED OUT REGULARLY. SILT BUILD DISCHARGE LEVEL SECTION SECTION -(ZZ') (YY')SCALE 1:100 SCALE 1:100 UP SHOULD BE MONITORED ON SITE.







| Dungarvan Co. Waterford lreland web: www.hydroenvironmental.ie | Dungarvan<br>Co. Waterford | email: info@hydroenvironmental.ie |
|--|----------------------------|-----------------------------------|
|--|----------------------------|-----------------------------------|

Client:

Job:
Borrisbeg Renewable Energy Development

Title:

DRAINAGE DETAILS I

Date: 24/11/2023

| Figure No:     | D50I                   |
|----------------|------------------------|
| Drawing No: P1 | 619-0-1123-A1-D501-00A |
| Sheet Size: A1 | Project No.: P1619-0   |
|                |                        |

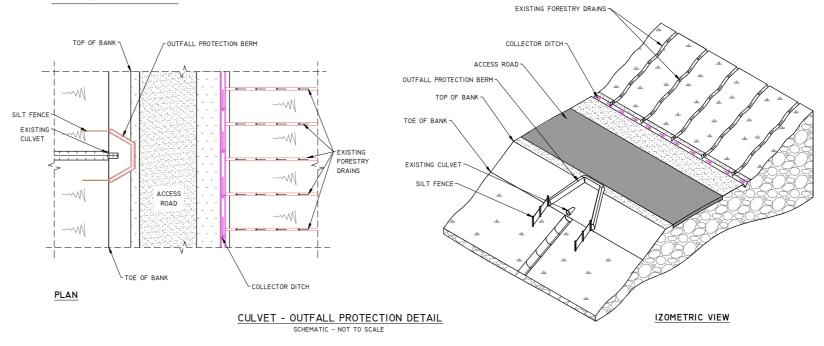
Checked By: M.G.

# DETAIL B

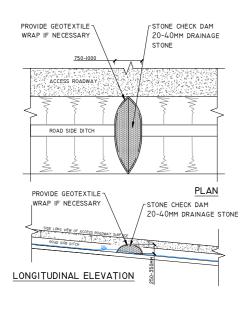
### ROAD LEVEL CAPPING MATERIAL/ ROAD CONSTRUCTION REFER TO CLIENT STANDARD DETAIL DRAINAGE PIPE, DIAMETER VARIES FILL MATERIAL TO CL. 503.3 (I) OF THE NRA SPEC. FOR ROADWORKS

'TYPE B' CULVERT - DRAINAGE CROSSING BENEATH EXCAVATED ROAD

### **DETAIL BI**

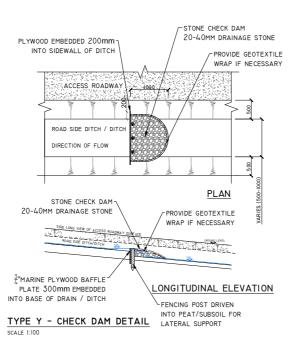


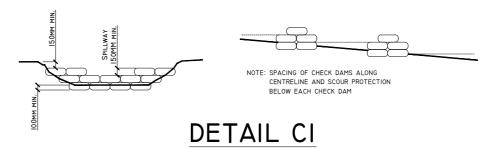
# DETAIL C

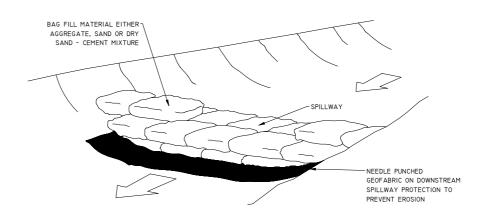


TYPE X - CHECK DAM DETAIL SCALE 1:50

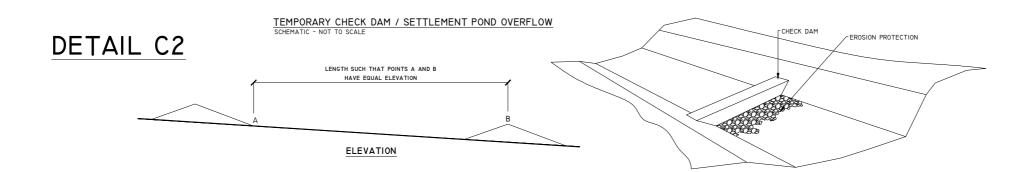
### DETAIL D







TEMPORARY CHECK DAM / SETTLEMENT POND OVERFLOW SAND FILLED BAG CONSTRUCTION



|          |             |      | .      |
|----------|-------------|------|--------|
|          |             |      |        |
| 24/11/23 | Planning    | MG   | MG     |
| Date     | Description | Chkd | Signed |
| Revision | ns          |      |        |



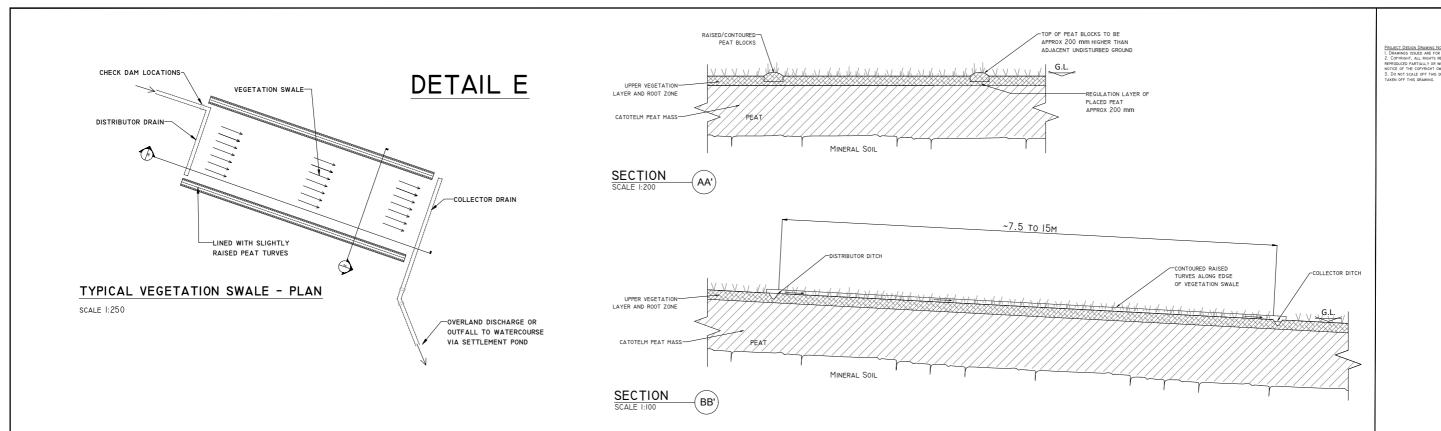
|   |         | IIGIGIIG | ' | WED. | www.nyuroenvironmeniube |
|---|---------|----------|---|------|-------------------------|
| ĺ | Client: |          |   |      |                         |
|   |         |          |   |      | MKO                     |

BORRISBEG RENEWABLE ENERGY DEVELOPMENT

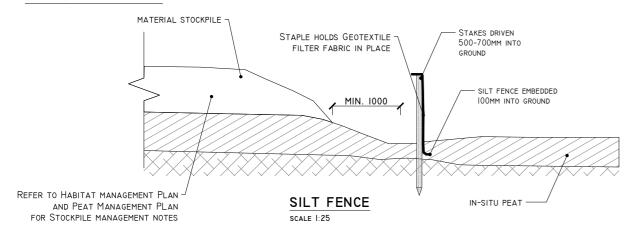
DRAINAGE DETAILS 2

|   | Figure No:  | D502                     |  |
|---|-------------|--------------------------|--|
| Ì | Drawing No: | P1619-0-1123-A1-D502-00A |  |

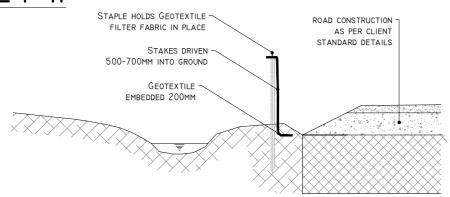
| Diawing 140. 1 1017 0 1125 711 B002 0071 |                      |  |  |
|--|----------------------|--|--|
| Sheet Size: A1                           | Project No.: P1619-0 |  |  |
| Scale: as shown (A1)                     | Drawn By: MG/GD      |  |  |
| Date: 24/11/2023                         | Checked By: M.G.     |  |  |



### DETAIL F-I

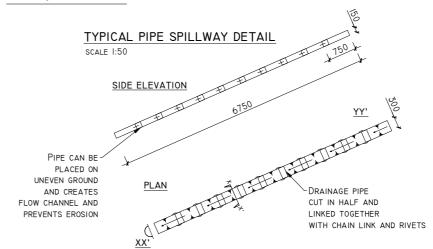


## DETAIL F-II

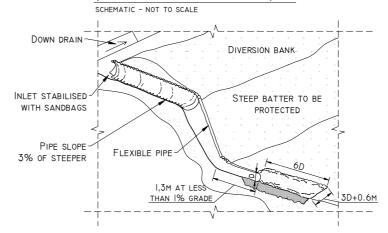


SILT FENCE FOR WATERCOURSE PROTECTION

# DETAIL G



#### TYPICAL PIPE SPILLWAY DETAIL



| MG   | MG     |
|------|--------|
| Chkd | Signed |
|      |        |



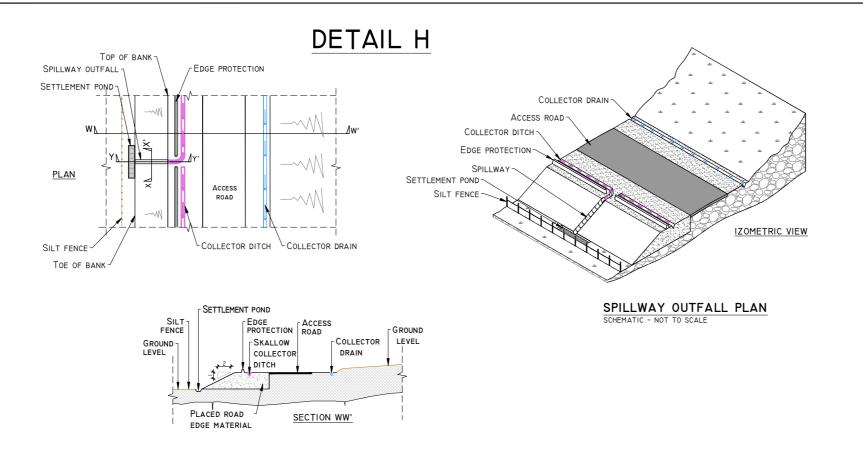
MKO

BORRISBEG RENEWABLE ENERGY DEVELOPMENT

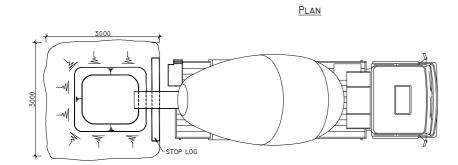
DRAINAGE DETAILS 3 Figure No:

Drawing No: P1619-0-1123-A1-D503-00A heet Size: A1 Project No.: P1619-0 ate: 24/11/2023 Checked By: M.G.

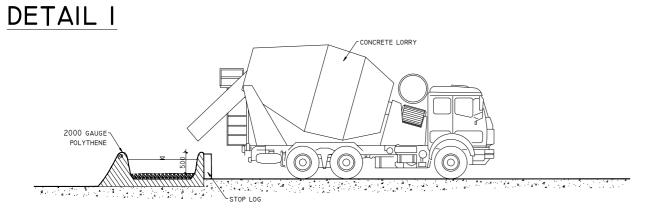
D503



#### TEMPORARY CONCRETE WASH OUT PIT

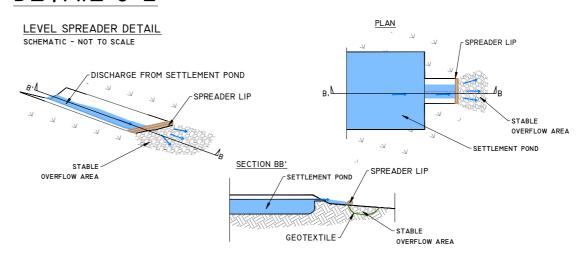


#### **ELEVATION**



#### DETAIL J-I LEVEL SPREADER DETAIL SCHEMATIC - NOT TO SCALE CLEAN WATER STABLE OVERFLOW AREA STABLE OVERFLOW AREA SECTION AA' SPREADER LIP GEOTEXTILE

# DETAIL J-2



| 1        |             |      |        |
|----------|-------------|------|--------|
| ١.,      | 1           |      | ı      |
|          |             |      |        |
| 24/11/23 | Planning    | MG   | MG     |
| Date     | Description | Chkd | Signed |
| Revision | ns          |      |        |

STABLE

OVERFLOW AREA



| Client: |  |
|---------|--|
| мко     |  |

BORRISBEG RENEWABLE ENERGY DEVELOPMENT

DRAINAGE DETAILS 4

| Figure No:       | D504                 |
|------------------|----------------------|
| Drawing No: P161 | 9-0-1123-A1-D504-00A |
| Sheet Size: A1   | Project No.: P1619-0 |
| Camba an abas a  | All Demine Brickloop |

Checked By: M.G.