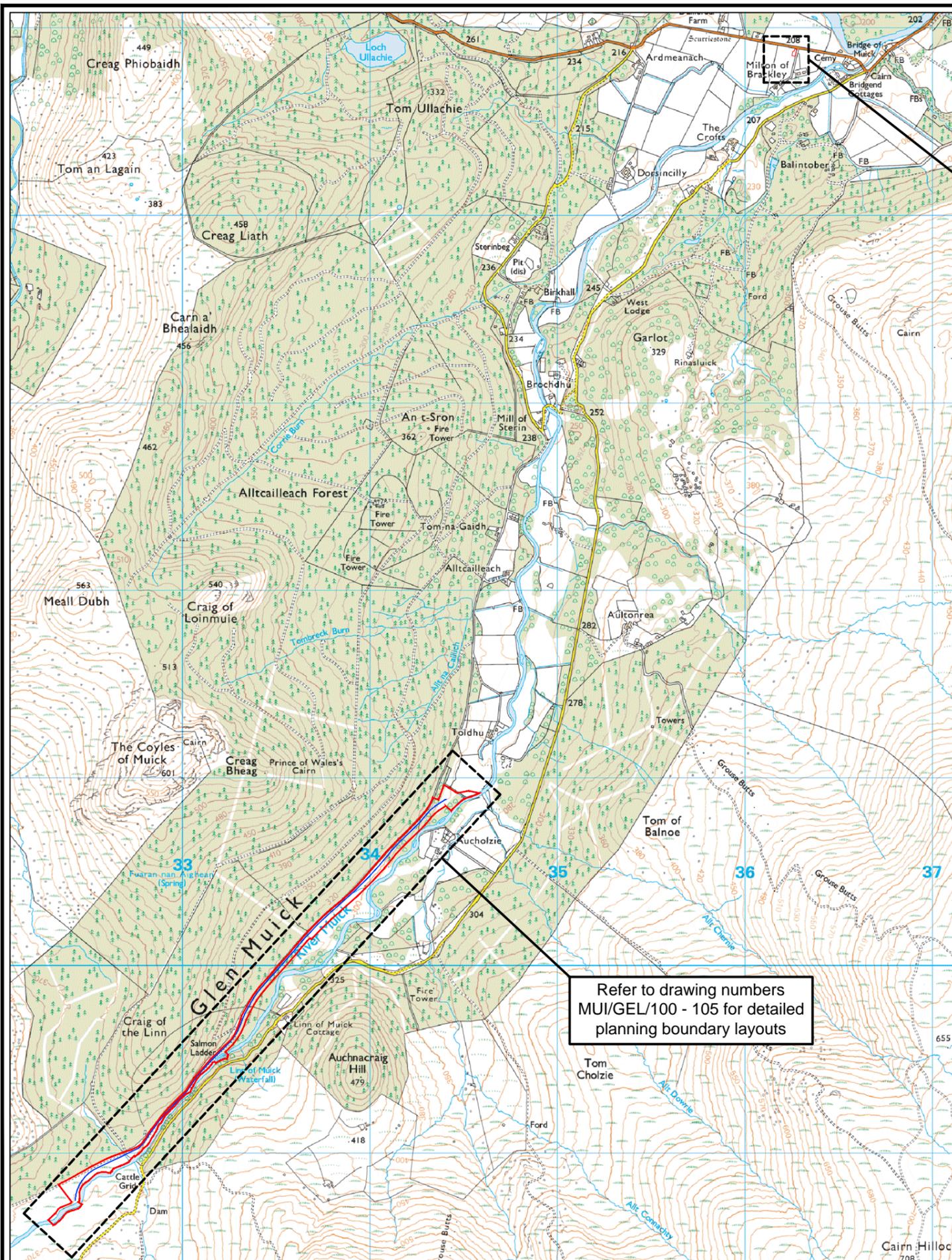


AGENDA ITEM 7

APPENDIX I

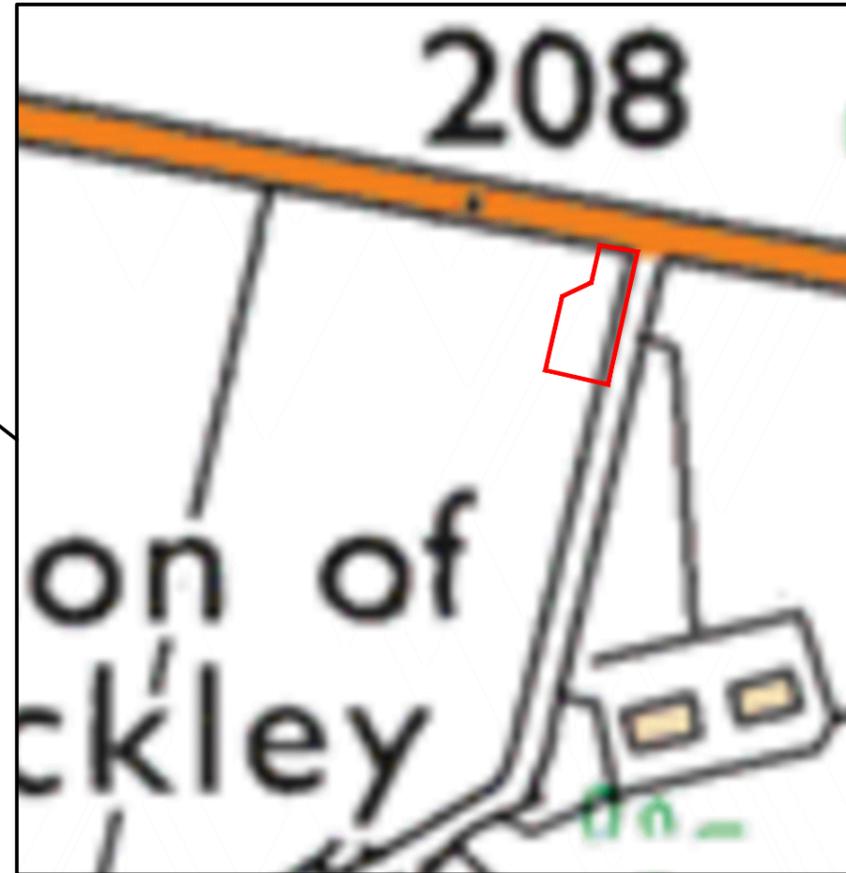
2019/0080/DET

PLANS



Overall Planning Boundary
 1:12,500 @ A1
 1:25,000 @ A3

Refer to drawing numbers
 MUI/GEL/100 - 105 for detailed
 planning boundary layouts

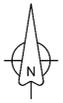
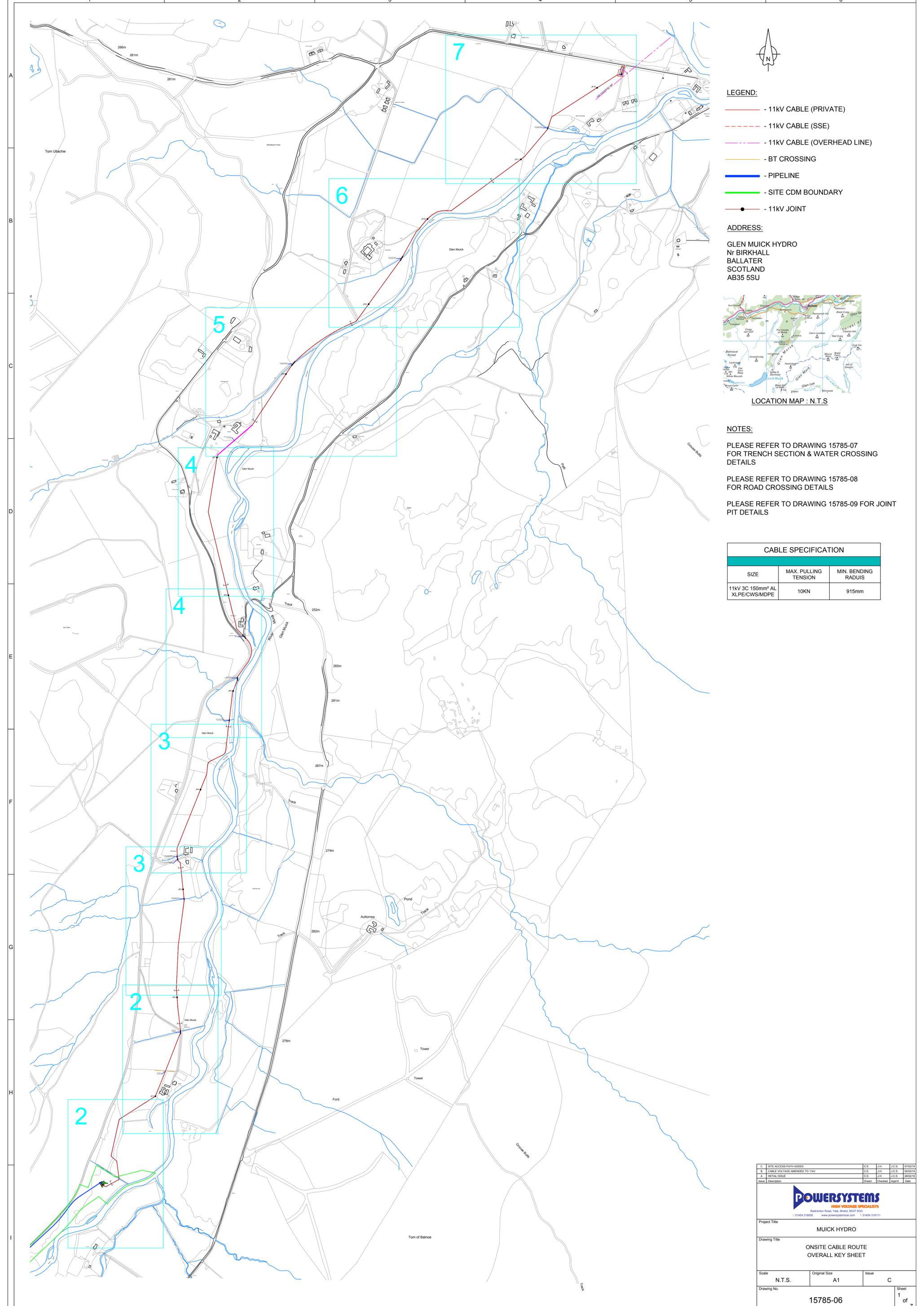


Refer to drawing number
 MUI/GEL/400 for detailed
 planning boundary layout

Planning Boundary
 1:1000 @ A1
 1:2000 @ A3



| | | | | | |
|--|----------|-------|-------------|---|-------|
| P2 | 04.05.18 | MH | Preliminary | GMcG | GMcG |
| P1 | 02.02.18 | MH | Preliminary | GMcG | GMcG |
| REV | DATE | DRAWN | NOTES | CHK'D | APP'D |
| | | | | 177 WEST GEORGE ST. GLASGOW G2 2LB UNITED KINGDOM T: 0141 242 0090 E: info@gilkesenergy.com W: www.gilkesenergy.com | |
| | | | | | |
| CLIENT BALMORAL ESTATES | | | | | |
| PROJECT MUICK HYDRO SCHEME | | | | | |
| DRAWING TITLE OVERALL SITE PLAN PLANNING BOUNDARY | | | | | |
| SCALE AT A1 (ORIGINAL SHEET SIZE) 1:1000 0 50m 100m 1:12500 0 625m 1250m | | | | SCALE AT A3: VARIES | |
| DRAWING NUMBER/REFERENCE MUI/GEL/100 | | | | DRAWING STATUS PRE | |

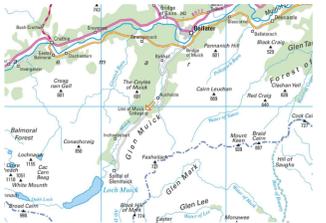


LEGEND:

- 11KV CABLE (PRIVATE)
- 11KV CABLE (SSE)
- 11KV CABLE (OVERHEAD LINE)
- BT CROSSING
- PIPELINE
- SITE CDM BOUNDARY
- 11KV JOINT

ADDRESS:

GLEN MUICK HYDRO
 Nr BIRKHALL
 BALLATER
 SCOTLAND
 AB35 5SU



LOCATION MAP : N.T.S

NOTES:

- PLEASE REFER TO DRAWING 15785-07 FOR TRENCH SECTION & WATER CROSSING DETAILS
- PLEASE REFER TO DRAWING 15785-08 FOR ROAD CROSSING DETAILS
- PLEASE REFER TO DRAWING 15785-09 FOR JOINT PIT DETAILS

| CABLE SPECIFICATION | | |
|---|----------------------|---------------------|
| SIZE | MAX. PULLING TENSION | MIN. BENDING RADIUS |
| 11KV 3C 150mm ² AL XLPE/CWS/MDPE | 10KN | 915mm |

| | | | | | |
|-------|-------------------------------|-------|---------|--------|----------|
| C | SITE ACCESS PATH ADDED | C.E. | J.H. | J.C.S. | 07/03/19 |
| B | CABLE VOLTAGE AMENDED TO 11KV | C.E. | J.H. | J.C.S. | 06/03/19 |
| A | INITIAL ISSUE | C.E. | J.H. | J.C.S. | 05/03/19 |
| Issue | Description | Drawn | Checked | App'd | Date |

POWERSYSTEMS
 HIGH VOLTAGE SPECIALISTS
 Baldern Road, Glen, Strath, DD21 5DU
 01454 318000 www.powersystems.co.uk 01454 318111

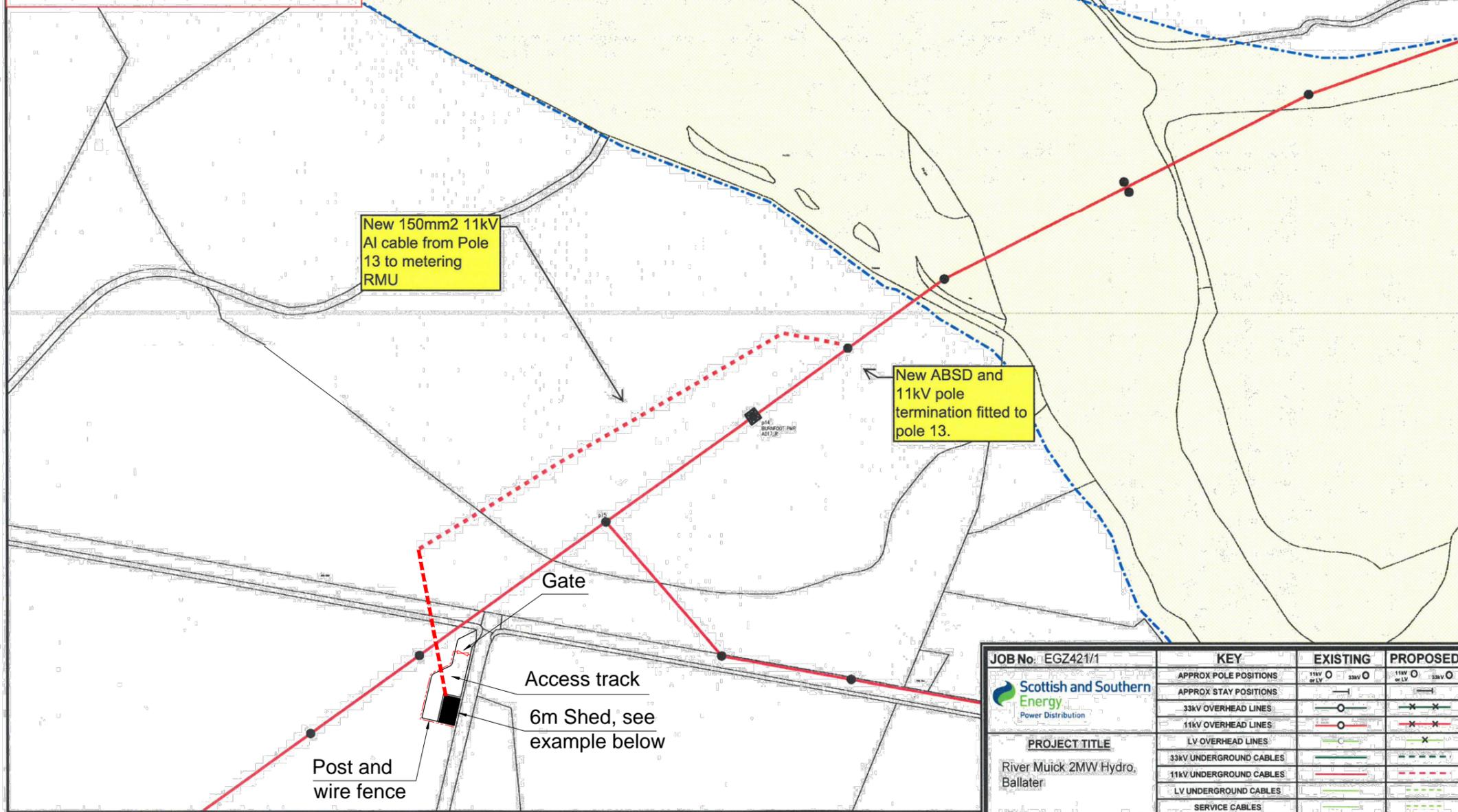
Project Title: **MUICK HYDRO**

Drawing Title: **ONSITE CABLE ROUTE OVERALL KEY SHEET**

Scale: N.T.S. Original Size: A1 Issue: C

Drawing No.: **15785-06** Sheet 1 of 7

Customer is responsible for all excavation and reinstatement for the 11kV cable route and substation foundations.



| JOB No. EGZ421/1 | KEY | | EXISTING | PROPOSED |
|--|-----------------------|-----------------------|---------------|---------------|
| | APPROX POLE POSITIONS | APPROX STAY POSITIONS | 11kV O 33kV O | 11kV O 33kV O |
| 33kV OVERHEAD LINES | | | —○— | —X— |
| 11kV OVERHEAD LINES | | | —○— | —X— |
| LV OVERHEAD LINES | | | —○— | —X— |
| 33kV UNDERGROUND CABLES | | | —○— | —X— |
| 11kV UNDERGROUND CABLES | | | —○— | —X— |
| LV UNDERGROUND CABLES | | | —○— | —X— |
| SERVICE CABLES | | | —○— | —X— |
| TRANSFORMERS | | 11kV ○ 33kV ○ | 11kV ○ 33kV ○ | |
| EARTHING WIRE | | NOT SHOWN (USUALLY) | --- | --- |
| DUCTS | | | --- | --- |
| DISMANTLING | | NA | --- | --- |
| PROJECT TITLE River Muick 2MW Hydro, Ballater | | | | |
| DATE DRAWN: 19/01/2017 SCALE: 1 to 1250 COMMENTS: | | | | |

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no3695sw, no3694ne, no3695se, no3694nw

19/01/2017

1:1250

North Arrow

Title: River Muick Hydro, Ballater

EGZ421

IF IN DOUBT - ASK

- NOTES
- All levels are in metres Above Ordnance Datum (mAOD).
 - All dimensions are in millimetres unless otherwise noted.
 - Refer to dwg no. MUI/GEL/006 for standard notes and reference drawings.

For Planning

| | | | | | |
|-----|----------|-------|-------------|------|-------|
| P2 | 25.09.17 | MH | Preliminary | GMcG | GMcG |
| P1 | 04.09.17 | MH | Preliminary | GMcG | GMcG |
| REV | DATE | DRAWN | NOTES | CHKD | APP'D |

177 WEST GEORGE ST.
GLASGOW
G2 2LB
UNITED KINGDOM
T: 0141 242 0090
E: info@gilkesenergy.com
W: www.gilkesenergy.com

CLIENT

Balmoral Estates

PROJECT
MUICK HYDRO SCHEME

DRAWING TITLE
**METERING KIOSK
GENERAL ARRANGEMENT**

SCALE AT A1 (ORIGINAL SHEET SIZE) SCALE AT A3 : N.T.S.

N.T.S.

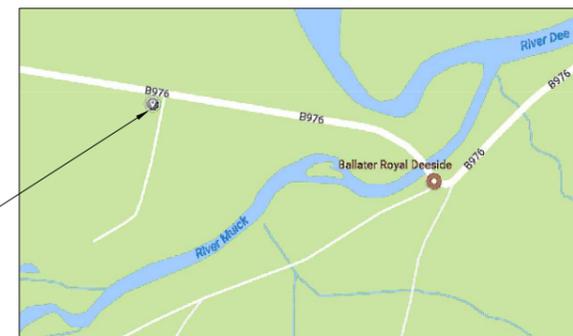
DRAWING NUMBER/REFERENCE: **MUI/GEL/400** DRAWING STATUS: **PRE**



Kiosk Example
N.T.S.

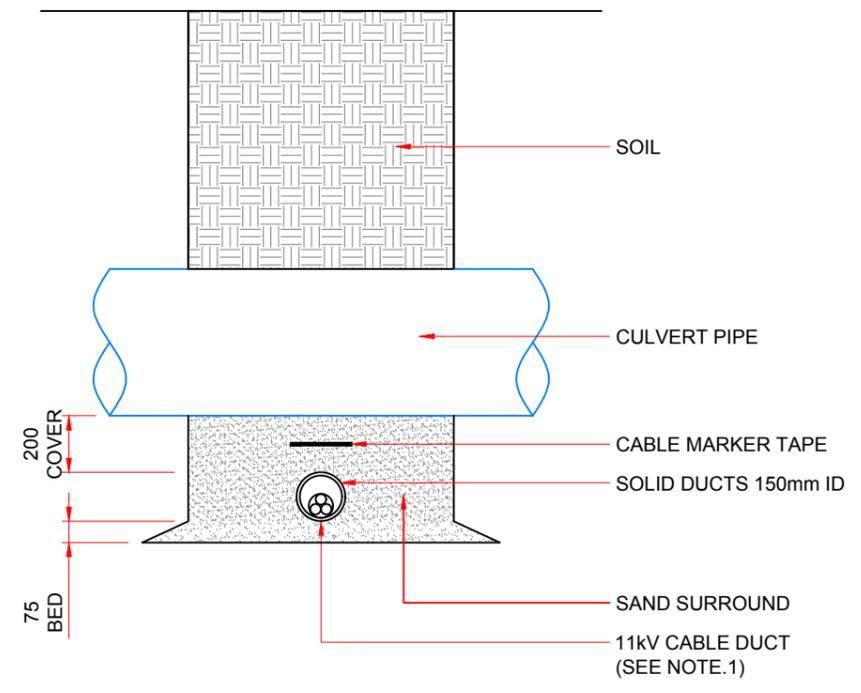


Kiosk Location
N.T.S.

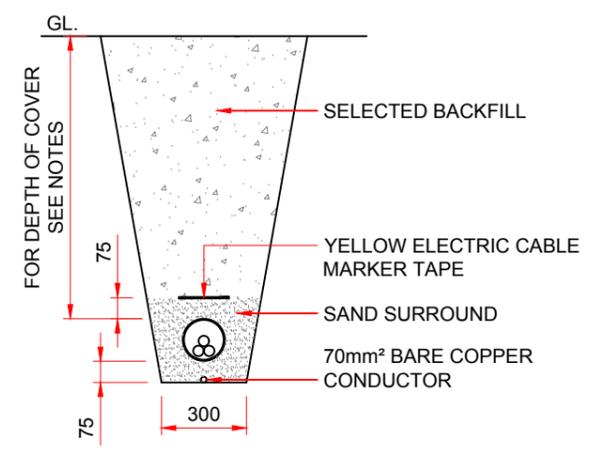


Kiosk Location Plan
N.T.S.

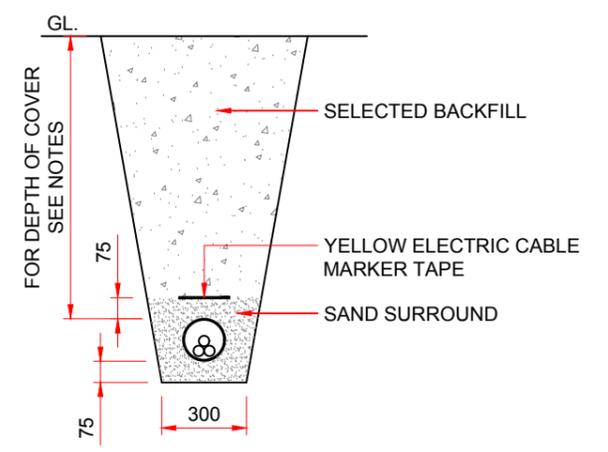
A



**CULVERT CROSSING
DETAIL
CABLES UNDER
CULVERT**

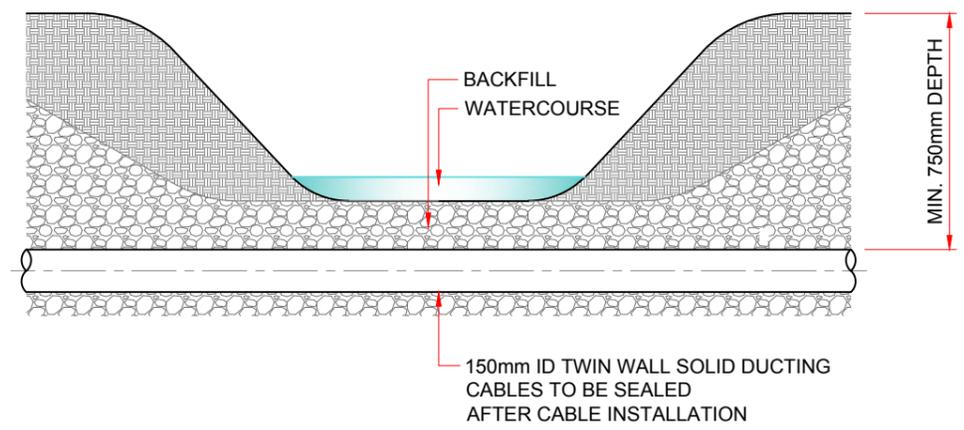


**TYPICAL TRENCH
SECTION A-A**



**TYPICAL TRENCH
SECTION B-B**

B



TYPICAL WATERCOURSE CROSSING

DEPTH OF COVER

| | FOOTWAY | CARRIAGEWAY | AGRICULTURAL LAND |
|-------------|---------|-------------|-------------------|
| 11kV CABLES | 600mm | 750mm | 1000mm |

NOTE:

1. COPPER CONDUCTOR WILL BE LAID IN DUCT UNDER CULVERT.

C

| | | | | | |
|-------|------------------------|-------|---------|--------|----------|
| B | COPPER CONDUCTOR ADDED | S.A.M | J.H | R.M.F | 12/04/19 |
| A | INITIAL ISSUE | C.E. | J.H. | J.C.S. | 27/02/19 |
| Issue | Description | Drawn | Checked | Appr'd | Date |

Badminton Road, Yate, Bristol, BS37 5GG
 t: 01454 318000 www.powersystemsuk.com f: 01454 318111

Project Title
MUICK HYDRO

Drawing Title
**ONSITE CABLE ROUTES
TRENCH SECTIONS
& WATERCOURSE, CULVERT CROSSINGS**

| | | |
|---------------|---------------------|------------|
| Scale 1:25 | Original Size A3 | Issue B |
|---------------|---------------------|------------|

| | |
|--------------------------------|-----------------|
| Drawing No. 15785-07 | Sheet 1 of 1 |
|--------------------------------|-----------------|