

NOTES

LEGEND

--- ROUTE FROM WELSHPOOL TO SSA B (NORTH)

P2	SCALE NOTES AMENDED	BT	MC	DUP	20/03/12
REV	AMENDMENTS	BY	CHKD	APPD	DATE

Grontmij
 Blackwood House
 Ash Road South
 Wrexham Industrial Estate
 Wrexham
 LL13 5UG
 Tel: +44 (0)197 866 6200
 Fax: +44 (0)197 866 6229
 www.grontmij.co.uk

Black, Corsham, Didsbury, Edinburgh, Glasgow, Leeds, London, Manchester, Reading, Southampton, Wrexham

CLIENT

RENEWABLEUK CYMRU

PROJECT

STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE

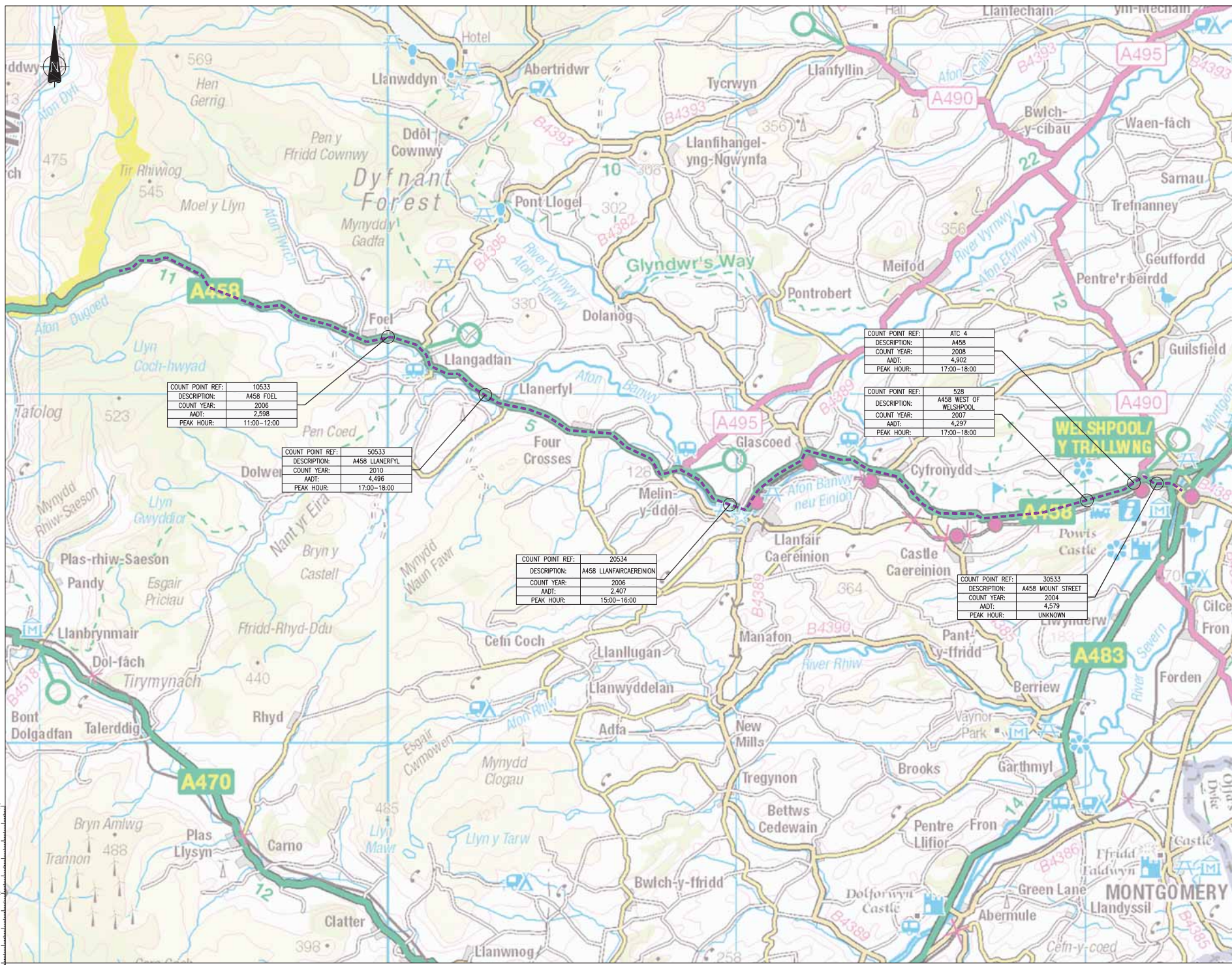
FIGURE 3-1
 ROUTE FROM WELSHPOOL TO SSA B (NORTH)

STATUS

FOR INFORMATION

DRAWN	CHECKED	APPROVED
AR	DH	STW
DATE	DATE	DATE
16.08.11	16.08.11	16.08.11
DRAWING SCALE	1:50000 at A1	ORIGINAL DRAWING SIZE
	1:100000 at A3	594 x 841 - A1

DRAWN BY: 108526-FIG 3-1 REV: P2



NOTES

LEGEND

--- ROUTE FROM WELSHPOOL TO SSA B (NORTH)

NOTES

- ADT = ANNUAL AVERAGE DAILY TRAFFIC, THE NUMBER OF VEHICLES PASSING A POINT ON THE ROAD NETWORK EACH DAY AVERAGED OVER A YEAR, FACTORED TO 2010 BY THE DEPARTMENT OF TRANSPORT.
- PEAK HOUR TAKEN FROM 12 MANUAL CLASSIFIED COUNTS FROM 07:00-19:00.
- POWYS AITS SITES PROVIDE HOURLY DATA FOR 2008

P2	SCALES AMENDED	ACR	BT	LC	WJG/2
REV	AMENDMENTS	BY	CHKD	APPD	DATE

Grontmij

Blackwood House
Ash Road South
Wrexham Industrial Estate
Wrexham
LL13 8UG

Tel: +44 (0)197 866 6200
Fax: +44 (0)197 866 6229
www.grontmij.co.uk

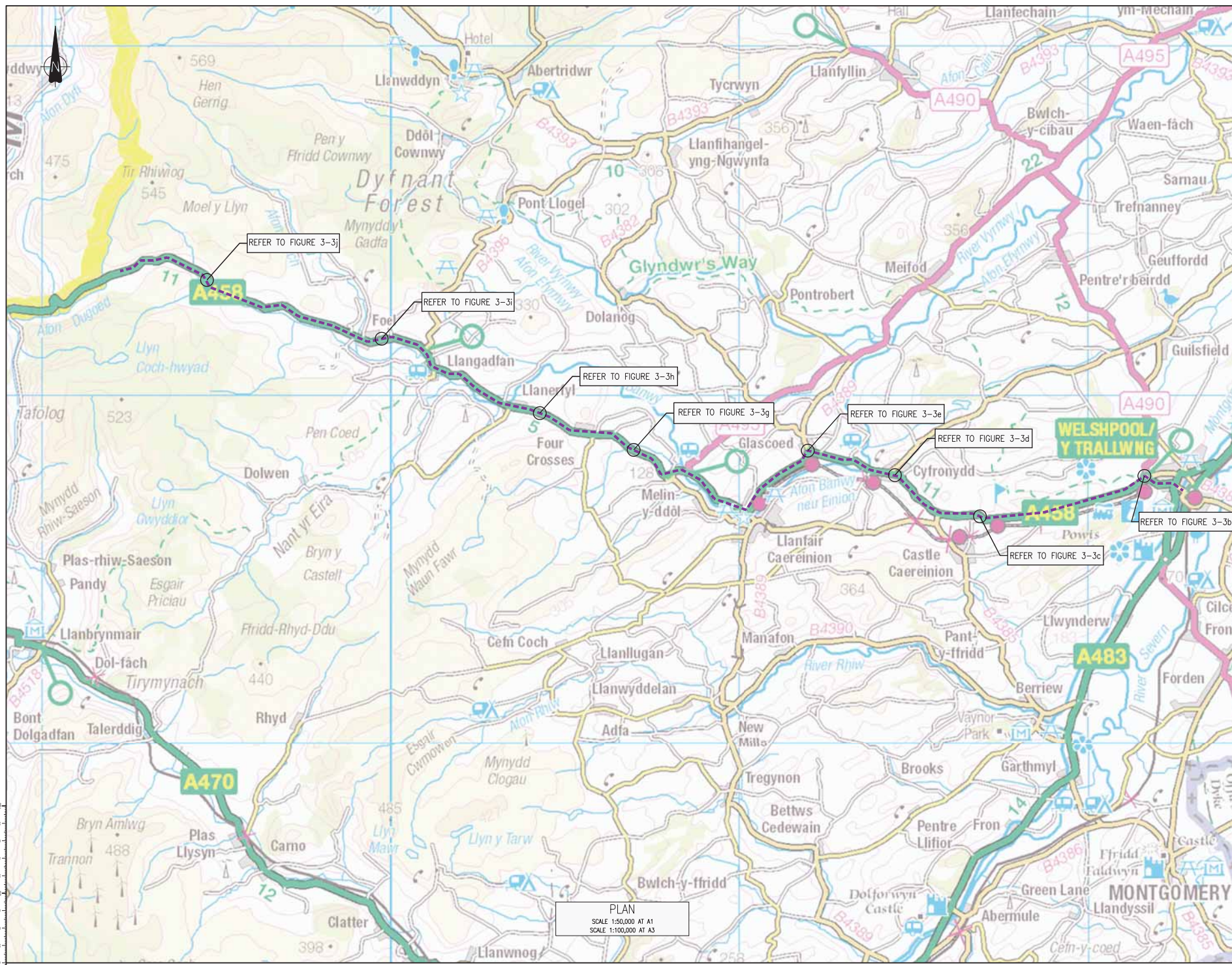
Client: **RENEWABLEUK CYMRU**

Project: **STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS**

Title: **FIGURE 3-2 TRAFFIC FLOWS ALONG ROUTE FROM WELSHPOOL TO SSA B (NORTH)**

Status: **FOR INFORMATION**

DRAWN	CHECKED	APPROVED
AR	DH	STW
DATE	DATE	DATE
16.08.11	16.08.11	16.08.11
DRAWING SCALE	1:50000 at A1	ORIGINAL DRAWING SIZE
	1:100000 at A3	594 x 841 - A1
DRAWINGS NO:	108526-FIG 3-2	REV:
		P2



NOTES

LEGEND
 --- ROUTE FROM WELSHPOOL TO SSA B (NORTH)

P4	PASSING PLACE 3-3f REMOVED	SPL	FT	DLP	13/08/11
P3	MAP REPOSITIONED	SB	FT	DLP	16/08/11
P2	SCALE NOTES AMENDED	FT	MC	DLP	20/03/11
REV	AMENDMENTS	BY	CHKD	APRD	DATE

Grontmij
 Blackwood House
 Ash Road South
 Wrexham Industrial Estate
 Wrexham
 LL13 9UG
 Tel : +44 (0)197 866 6200
 Fax : +44 (0)197 866 6229
 www.grontmij.co.uk

Head, Cardiff, Dublin, Edinburgh, Glasgow, Leeds, London, Peterborough, Reading, Oxford, Wrexham

CLIENT
 RENEWABLEUK CYMRU

PROJECT
 STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

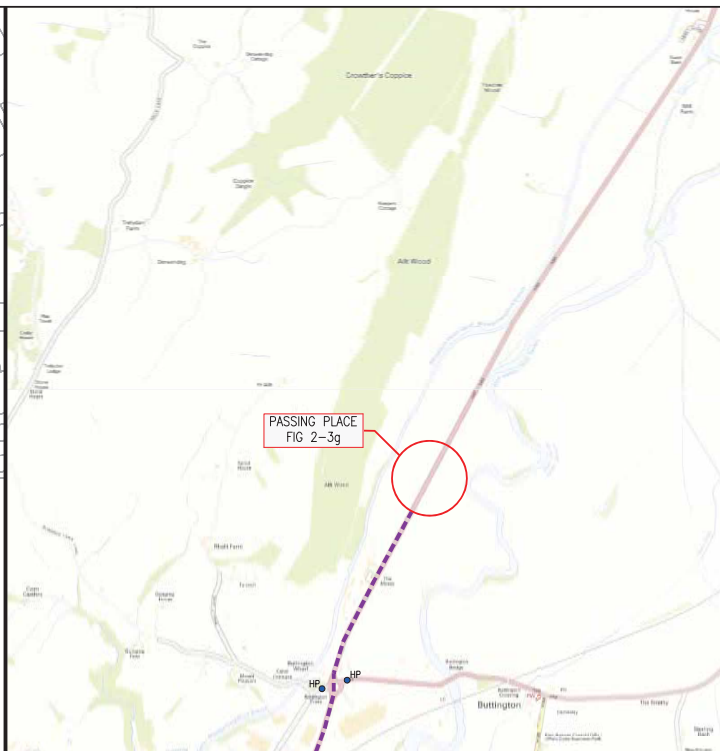
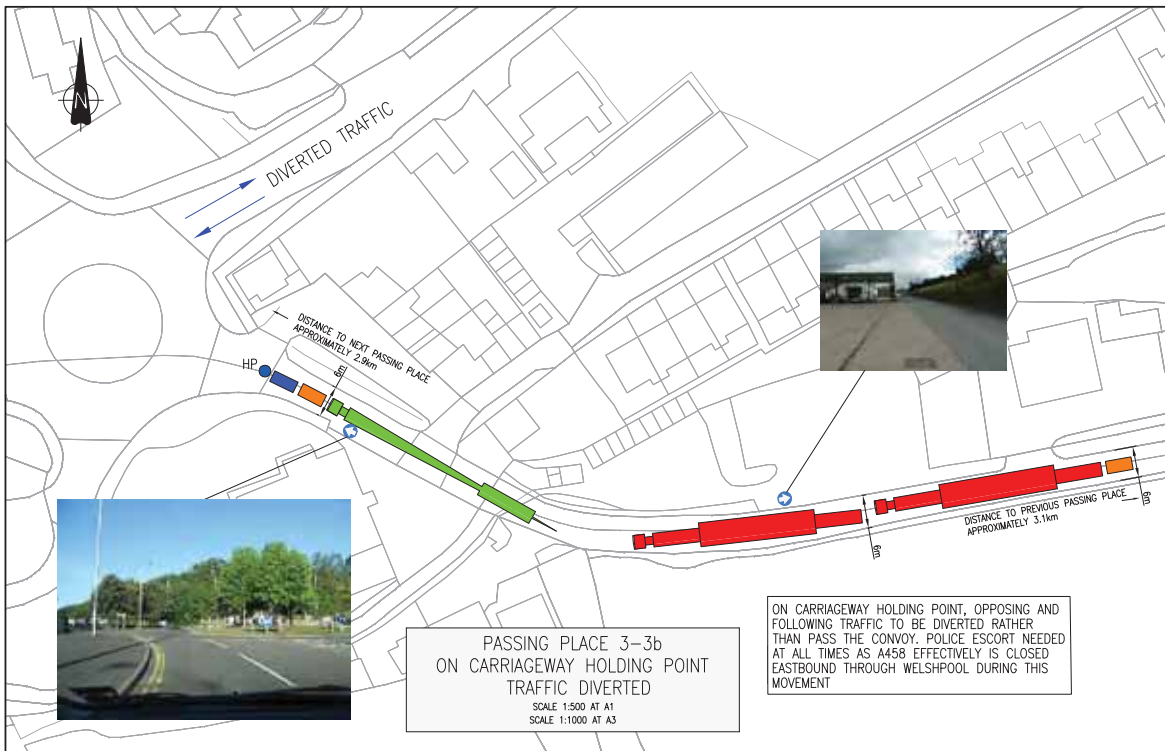
TITLE
 FIGURE 3-3a
 PASSING PLACES ALONG ROUTE FROM WELSHPOOL TO SSA B (NORTH)

STATUS
 FOR INFORMATION

DRAWN	CHECKED	APPROVED
AR	DH	STW
DATE	DATE	DATE
16.08.11	16.08.11	16.08.11
DRAWING SCALE		ORIGINAL DRAWING SIZE
AS SHOWN		594 x 841 - A1

DRAWING NO: **108526-FIG 3-3a** REV: P4

PLAN
 SCALE 1:50,000 AT A1
 SCALE 1:100,000 AT A3



NOTES

LEGEND

- ROUTE FROM WELSHPOOL TO SSA B (NORTH)
- HP POLICE HOLDING POINT
- RS ROAD SIGN
- TP TELEGRAPH POLE
- HARDENED VERGE
- RETAINING STRUCTURE
- SAFETY BARRIER
- ESTIMATED FOLLOWING TRAFFIC QUEUE
- ESTIMATED OPPOSING TRAFFIC QUEUE
- PHOTOGRAPH LOCATION AND DIRECTION
- NEW CARRIAGEWAY SURFACE

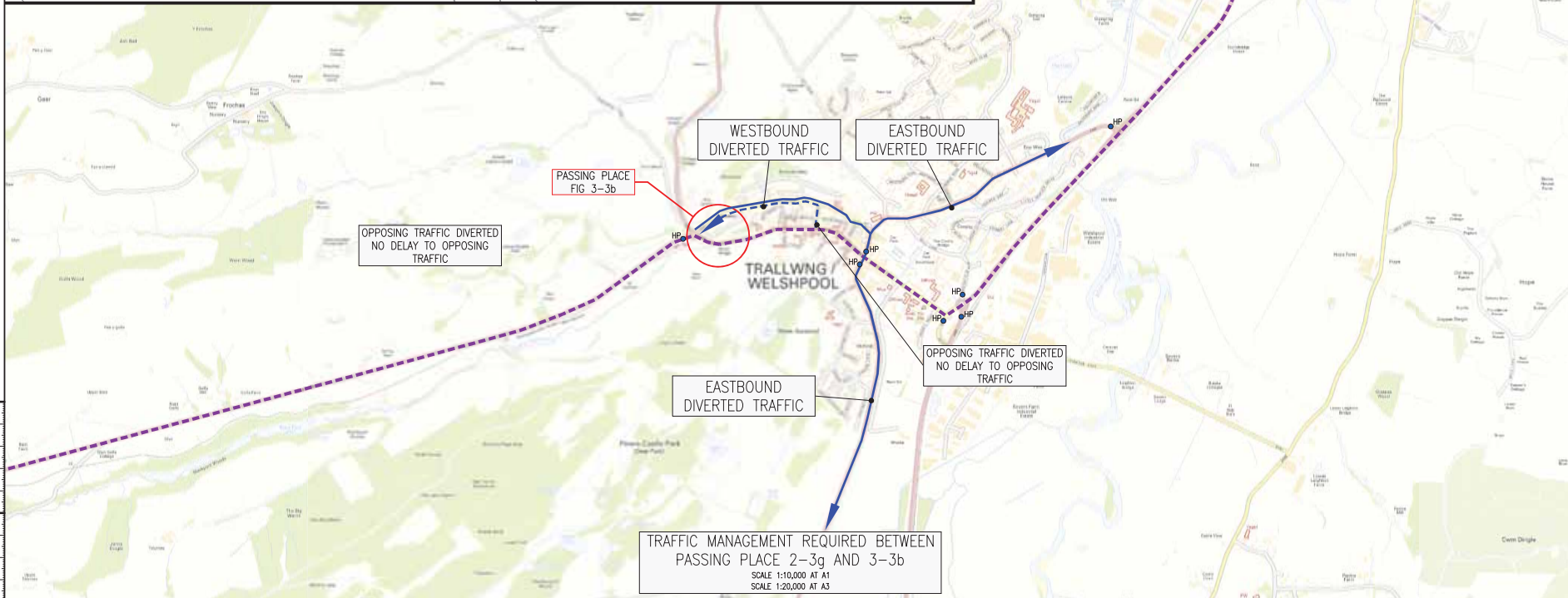
VEHICLES LEGEND

- TOWER BASE SECTION VEHICLE
- 45m BLADE VEHICLE
- CIVILIAN ESCORT VEHICLE
- POLICE ESCORT VEHICLE

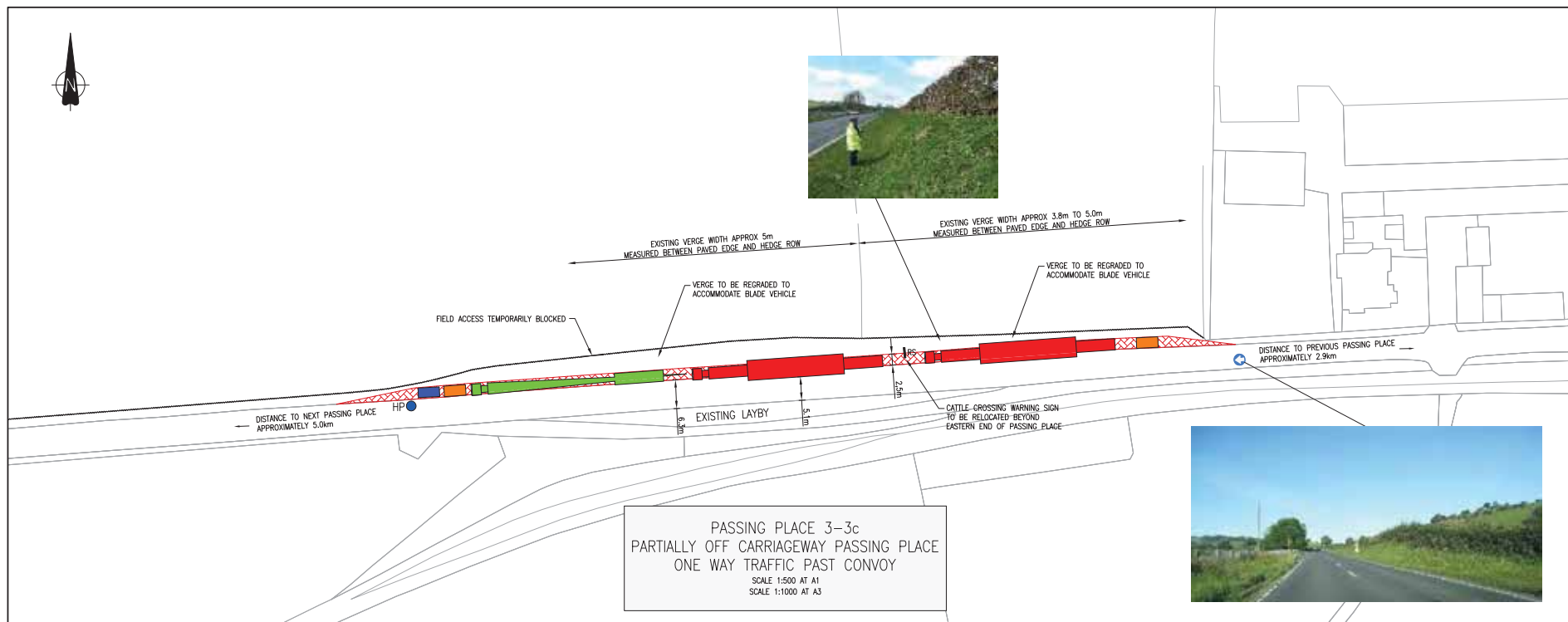
NOTES

- REFER TO FIGURE 1-4a FOR FURTHER INFORMATION ON ASSUMED DELIVERY VEHICLES.
- BLADE DELIVERY VEHICLE ASSUMED TO LEAD AS IT WILL SET THE CONVOY SPEED.
- ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
- THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY. TOPOGRAPHICAL SURVEY OF THE AREA MAY BE REQUIRED PRIOR TO FURTHER DESIGN DEVELOPMENT.
- ONSITE MEASUREMENTS TAKEN AT LOCATIONS OF PROPOSED PASSING PLACES.

P4	PASSING PLACE INFORMATION AMENDED FOLLOWING STAKEHOLDER LIAISON	IFT	MAC	DLP	09/08/11
P3	NOTES AMENDED	SB	IFT	DLP	27/04/11
P2	ADDITIONAL INFORMATION ADDED FOR PASSING PLACES FOLLOWING STAKEHOLDERS REVIEW	PSM	RS	DLP	20/03/11
REV	AMENDMENTS	BY	CHKD	APRD	DATE



<p>Blackwood House Ash Road South Wrexham Industrial Estate Wrexham LL13 9UG</p> <p>Tel : +44 (0)197 866 6200 Fax : +44 (0)197 866 6229 www.grontmij.co.uk</p>					
<p>RENEWABLEUK CYMRU</p>					
<p>PROJECT</p> <p>STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS</p>					
<p>TITLE</p> <p>FIGURE 3-3b PASSING PLACE RAVEN STREET ROUNDABOUT</p>					
<p>STATUS</p> <p>FOR INFORMATION</p>					
DRAWN AR	CHECKED DH	APPROVED STW			
DATE 16.08.11	DATE 16.08.11	DATE 16.08.11			
DRAWING SCALE AS SHOWN		ORIGINAL DRAWING SIZE 594 x 841 - A1			
DRAWING NO 108526-FIG 3-3b					REV P4



NOTES

LEGEND

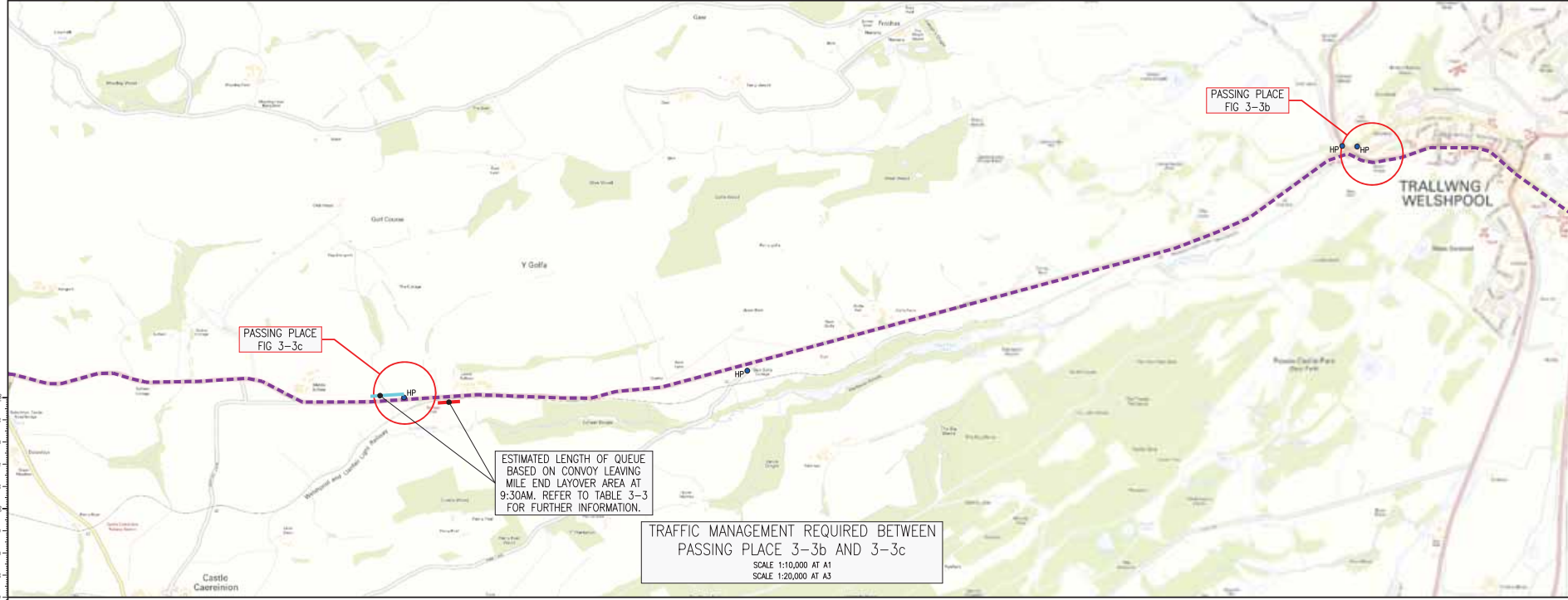
- ROUTE FROM WELSHPOOL TO SSA B (NORTH)
- HP POLICE HOLDING POINT
- RS ROAD SIGN
- TP TELEGRAPH POLE
- HARDENED VERGE
- RETAINING STRUCTURE
- SAFETY BARRIER
- ESTIMATED FOLLOWING TRAFFIC QUEUE
- ESTIMATED OPPOSING TRAFFIC QUEUE
- PHOTOGRAPH LOCATION AND DIRECTION
- NEW CARRIAGEWAY SURFACE

VEHICLES LEGEND

- TOWER BASE SECTION VEHICLE
- 45m BLADE VEHICLE
- CIVILIAN ESCORT VEHICLE
- POLICE ESCORT VEHICLE

NOTES

- REFER TO FIGURE 1-4a FOR FURTHER INFORMATION ON ASSUMED DELIVERY VEHICLES.
- BLADE DELIVERY VEHICLE ASSUMED TO LEAD AS IT WILL SET THE CONVOY SPEED.
- ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
- THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY. TOPOGRAPHICAL SURVEY OF THE AREA MAY BE REQUIRED PRIOR TO FURTHER DESIGN DEVELOPMENT.
- ONSITE MEASUREMENTS TAKEN AT LOCATIONS OF PROPOSED PASSING PLACES.



P4	PASSING PLACE INFORMATION AMENDED FOLLOWING STAKEHOLDER LIAISON	IFT	MAC	DLP	09/08/11
P3	NOTES AMENDED	SB	IFT	DLP	27/04/11
P2	ADDITIONAL INFORMATION ADDED FOR PASSING PLACES FOLLOWING STAKEHOLDERS REVIEW	PSM	RS	DLP	20/03/11
REV	AMENDMENTS	BY	CHGD	APRD	DATE

Grontmij
 Blackwood House
 Ash Road South
 Wrexham Industrial Estate
 Wrexham
 LL13 9UG
 Tel : +44 (0)197 866 6200
 Fax : +44 (0)197 866 6229
 www.grontmij.co.uk

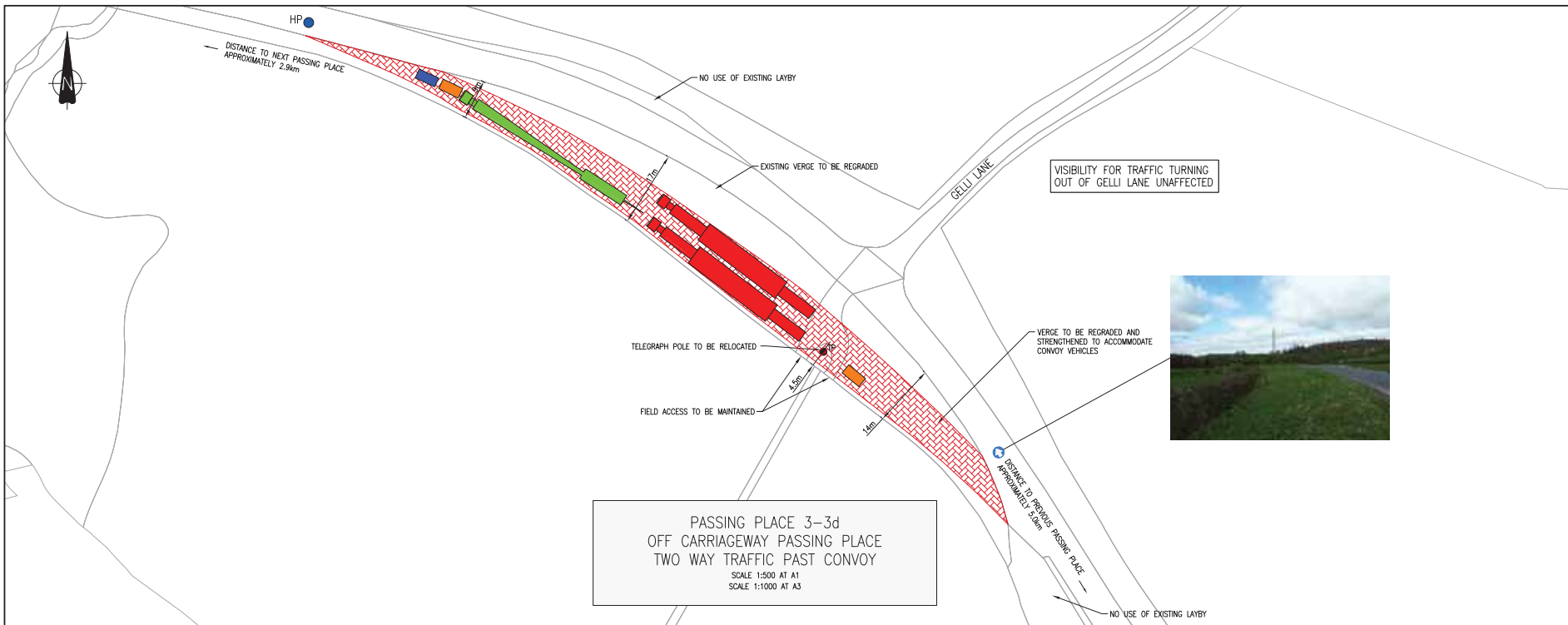
CLIENT
 RENEWABLEUK CYMRU

PROJECT
 STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE
 FIGURE 3-3c
 PASSING PLACE MIDDLE SYLFAEN

STATUS
 FOR INFORMATION

DRAWN	CHECKED	APPROVED
AR	DH	STW
DATE	DATE	DATE
16.08.11	16.08.11	16.08.11
DRAWING SCALE		ORIGINAL DRAWING SIZE
AS SHOWN		594 x 841 - A1
DRAWING NO	REV	
108526-FIG 3-3c	P4	



PASSING PLACE 3-3d
OFF CARRIAGEWAY PASSING PLACE
TWO WAY TRAFFIC PAST CONVOY
SCALE 1:500 AT A1
SCALE 1:1000 AT A3

NOTES

LEGEND

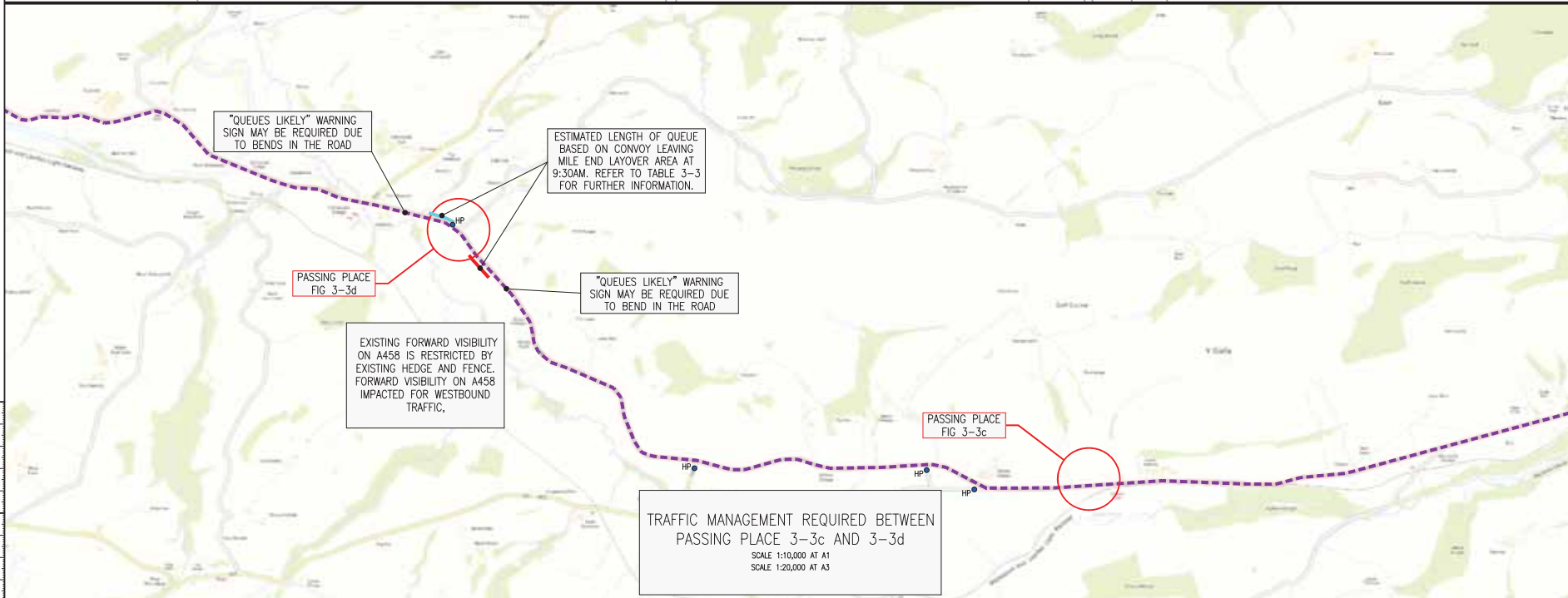
- ROUTE FROM WELSHPOOL TO SSA B (NORTH)
- HP POLICE HOLDING POINT
- RS ROAD SIGN
- TP TELEGRAPH POLE
- [Hatched Box] HARDENED VERGE
- - - RETAINING STRUCTURE
- SAFETY BARRIER
- ESTIMATED FOLLOWING TRAFFIC QUEUE
- ESTIMATED OPPOSING TRAFFIC QUEUE
- ⊕ PHOTOGRAPH LOCATION AND DIRECTION
- [Grey Box] NEW CARRIAGEWAY SURFACE

VEHICLES LEGEND

- [Red Box] TOWER BASE SECTION VEHICLE
- [Green Box] 45m BLADE VEHICLE
- [Orange Box] CIVILIAN ESCORT VEHICLE
- [Blue Box] POLICE ESCORT VEHICLE

NOTES

- REFER TO FIGURE 1-4a FOR FURTHER INFORMATION ON ASSUMED DELIVERY VEHICLES.
- BLADE DELIVERY VEHICLE ASSUMED TO LEAD AS IT WILL SET THE CONVOY SPEED.
- ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
- THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY. TOPOGRAPHICAL SURVEY OF THE AREA MAY BE REQUIRED PRIOR TO FURTHER DESIGN DEVELOPMENT.
- ONSITE MEASUREMENTS TAKEN AT LOCATIONS OF PROPOSED PASSING PLACES.



TRAFFIC MANAGEMENT REQUIRED BETWEEN
PASSING PLACE 3-3c AND 3-3d
SCALE 1:10,000 AT A1
SCALE 1:20,000 AT A3

P4	PASSING PLACE INFORMATION AMENDED FOLLOWING STAKEHOLDER LIAISON	SRL	FT	DLP	09/08/11
P3	NOTES AMENDED	SB	FT	DLP	27/04/11
P2	ADDITIONAL INFORMATION ADDED FOR PASSING PLACES FOLLOWING STAKEHOLDERS REVIEW	PSM	RS	DLP	20/03/11
REV	AMENDMENTS	BY	CHKD	APRD	DATE

Grontmij
Blackwood House
Ash Road South
Wrexham Industrial Estate
Wrexham
LL13 9UG

Tel : +44 (0)197 866 6200
Fax: +44 (0)197 866 6229
www.grontmij.co.uk

CLIENT
RENEWABLEUK CYMRU

PROJECT
STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE
**FIGURE 3-3d
PASSING PLACE GELLI LANE**

STATUS
FOR INFORMATION

DRAWN AR	CHECKED DH	APPROVED STW
DATE 16.08.11	DATE 16.08.11	DATE 16.08.11
DRAWING SCALE AS SHOWN		ORIGINAL DRAWING SIZE 594 x 841 - A1

DRAWING NO: **108526-FIG 3-3d** REV: **P4**

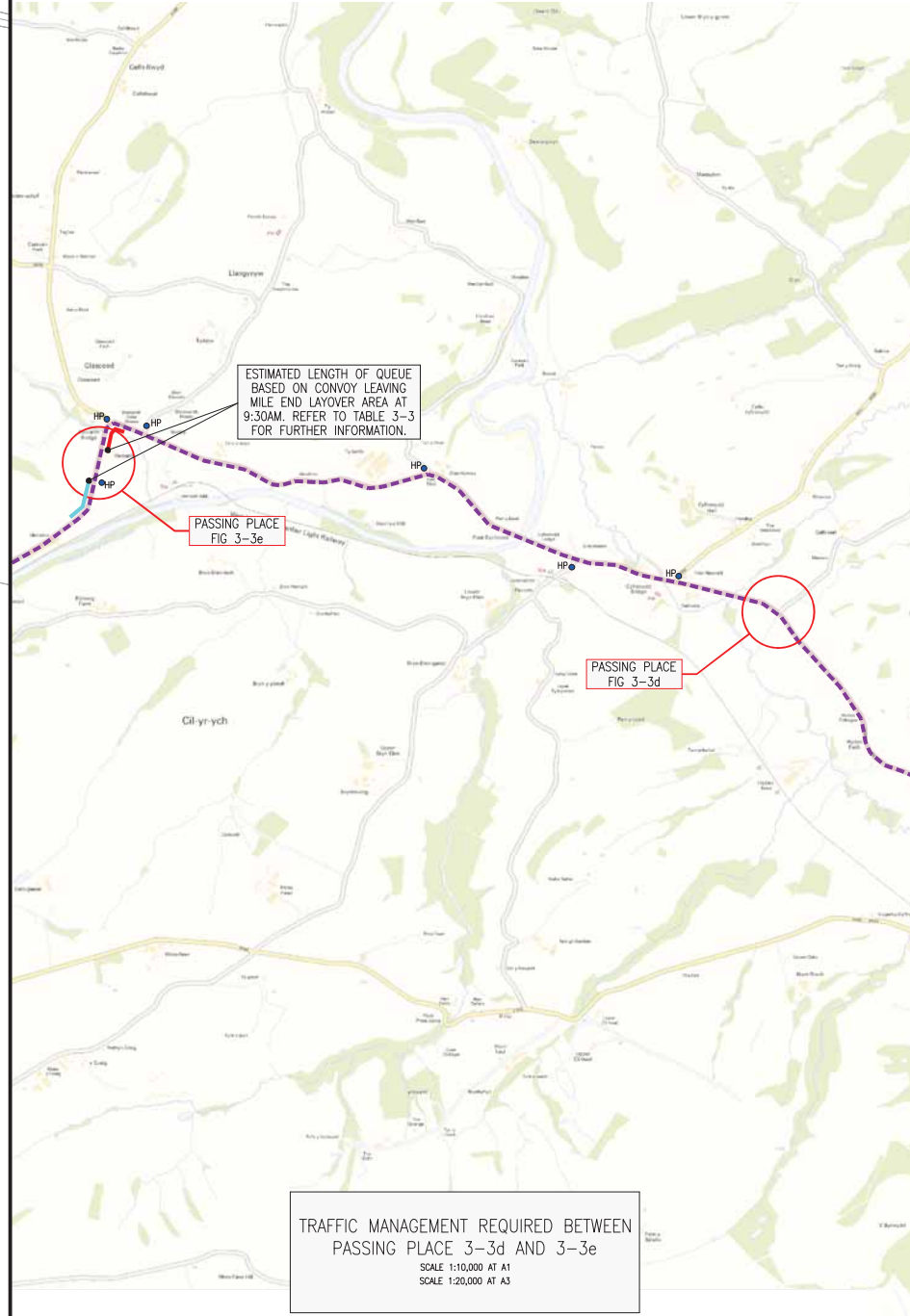
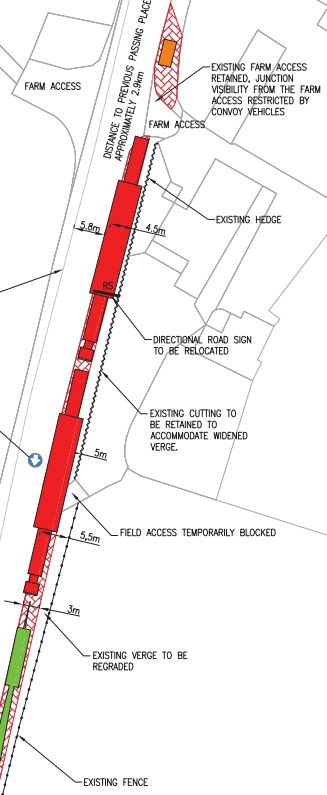


ASSUMED EDGE OF CARRIAGEWAY

WIDE LOAD MAY OVERHANG THE CARRIAGEWAY LEAVING APPROXIMATELY 5.8m WIDE CARRIAGEWAY FOR ONE WAY TRAFFIC TO PASS AT THE CONVOY. POLICE ESCORT NEEDED AT ALL TIMES. SEE FIGURE 1-3a FOR TYPICAL DETAILS

— DISTANCE TO NEXT PASSING PLACE APPROXIMATELY 2.7km

PASSING PLACE 3-3e
PARTIALLY OFF CARRIAGEWAY PASSING PLACE
ONE WAY TRAFFIC PAST CONVOY
SCALE 1:500 AT A1
SCALE 1:1000 AT A3



TRAFFIC MANAGEMENT REQUIRED BETWEEN
PASSING PLACE 3-3d AND 3-3e
SCALE 1:10,000 AT A1
SCALE 1:20,000 AT A3

NOTES

- LEGEND
- ROUTE FROM WELSHPOOL TO SSA B (NORTH)
 - HP ● ROUTE HOLDING POINT
 - RS ROAD SIGN
 - TP TELEGRAPH POLE
 - ▨ HARDENED VERGE
 - RETAINING STRUCTURE
 - SAFETY BARRIER
 - ESTIMATED FOLLOWING TRAFFIC QUEUE
 - ESTIMATED OPPOSING TRAFFIC QUEUE
 - ⊕ PHOTOGRAPH LOCATION AND DIRECTION
 - NEW CARRIAGEWAY SURFACE
- VEHICLES LEGEND
- TOWER BASE SECTION VEHICLE
 - 45m BLADE VEHICLE
 - CIVILIAN ESCORT VEHICLE
 - POLICE ESCORT VEHICLE

- NOTES
1. REFER TO FIGURE 1-4a FOR FURTHER INFORMATION ON ASSUMED DELIVERY VEHICLES.
 2. BLADE DELIVERY VEHICLE ASSUMED TO LEAD AS IT WILL SET THE CONVOY SPEED.
 3. ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
 4. THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY. TOPOGRAPHICAL SURVEY OF THE AREA MAY BE REQUIRED PRIOR TO FURTHER DESIGN DEVELOPMENT.
 5. ONSITE MEASUREMENTS TAKEN AT LOCATIONS OF PROPOSED PASSING PLACES.

P4	PASSING PLACE INFORMATION AMENDED FOLLOWING STAKEHOLDER LIAISON	SPL	FT	DLP	09/08/11
P3	HARDENED VERGE EXTENDED; NOTES CHANGED	SB	FT	DLP	27/04/11
P2	ADDITIONAL INFORMATION ADDED FOR PASSING PLACES FOLLOWING STAKEHOLDERS REVIEW	PSM	RS	DLP	20/03/11
REV	AMENDMENTS	BY	CHKD	APRD	DATE

Grontmij
Blackwood House
Ash Road South
Wrexham Industrial Estate
Wrexham LL13 9UG
Tel : +44 (0)197 866 6200
Fax : +44 (0)197 866 6229
www.grontmij.co.uk

Birmingham, Cardiff, Dublin, Edinburgh, Glasgow, Leeds, London, Manchester, Nottingham, Reading, Sheffield, Wrexham

CLIENT
RENEWABLEUK CYMRU

PROJECT
STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE
**FIGURE 3-3e
PASSING PLACE GLASCOED**

STATUS
FOR INFORMATION

DRAWN AR	CHECKED DH	APPROVED STW
DATE 16.08.11	DATE 16.08.11	DATE 16.08.11
DRAWING SCALE AS SHOWN		ORIGINAL DRAWING SIZE 594 x 841 - A1

DRAWING NO: **108526-FIG 3-3e** REV: **P4**



NOTES

LEGEND

- ROUTE FROM WELSHPOOL TO SSA B (NORTH)
- POLICE HOLDING POINT
- ROAD SIGN
- TELEGRAPH POLE
- HARDENED VERGE
- RETAINING STRUCTURE
- SAFETY BARRIER
- PHOTOGRAPH LOCATION AND DIRECTION
- NEW CARRIAGEWAY SURFACE

VEHICLES LEGEND

- TOWER BASE SECTION VEHICLE
- 45m BLADE VEHICLE
- CIVILIAN ESCORT VEHICLE
- POLICE ESCORT VEHICLE

- NOTES**
- REFER TO FIGURE 1-4c FOR FURTHER INFORMATION ON ASSUMED DELIVERY VEHICLES.
 - BLADE DELIVERY VEHICLE ASSUMED TO LEAD AS IT WILL SET THE CONVOY SPEED.
 - ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
 - THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY. TOPOGRAPHICAL SURVEY OF THE AREA MAY BE REQUIRED PRIOR TO FURTHER DESIGN DEVELOPMENT.
 - ONSITE MEASUREMENTS TAKEN AT LOCATIONS OF PROPOSED PASSING PLACES.

P3	NOTES AMENDED	BB	IFT	DLP	27/04/12
P2	ADDITIONAL INFORMATION ADDED FOR PASSING PLACES FOLLOWING STAKEHOLDERS REVIEW	PSB	RS	DLP	20/03/12
REV	AMENDMENTS	BY	CHKD	APRD	DATE

Grontmij

Blackwood House
 Ash Road South
 Wrexham Industrial Estate
 Wrexham
 LL13 9UG

Tel : +44 (0)197 866 6200
 Fax: +44 (0)197 866 6229
 www.grontmij.co.uk

BRAD, CORRIE, DUDN, EDINBURGH, GILGIES, LINDSAY, LONDON, PEARSON, ROBERTS, SCHULZ, WELSH

CLIENT

RENEWABLEUK CYMRU

PROJECT

STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE

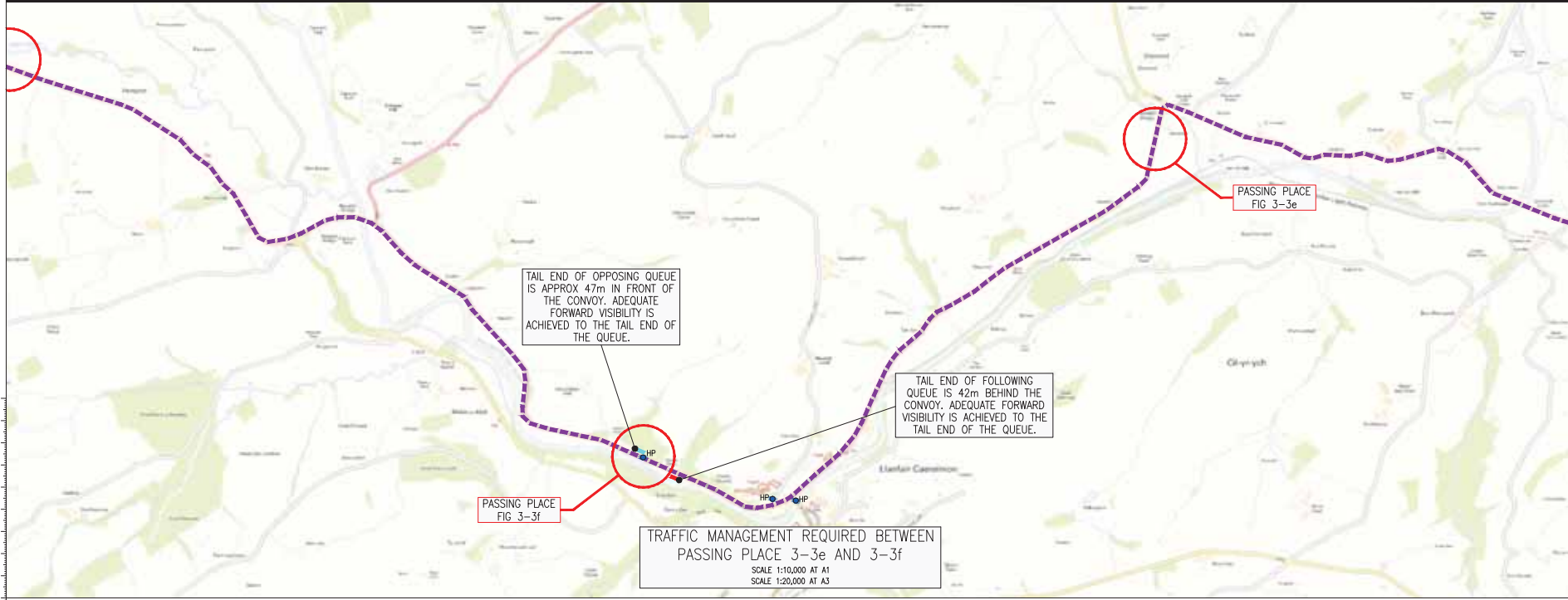
**FIGURE 3-3f
 PASSING PLACE LLANFAIR CAERINION**

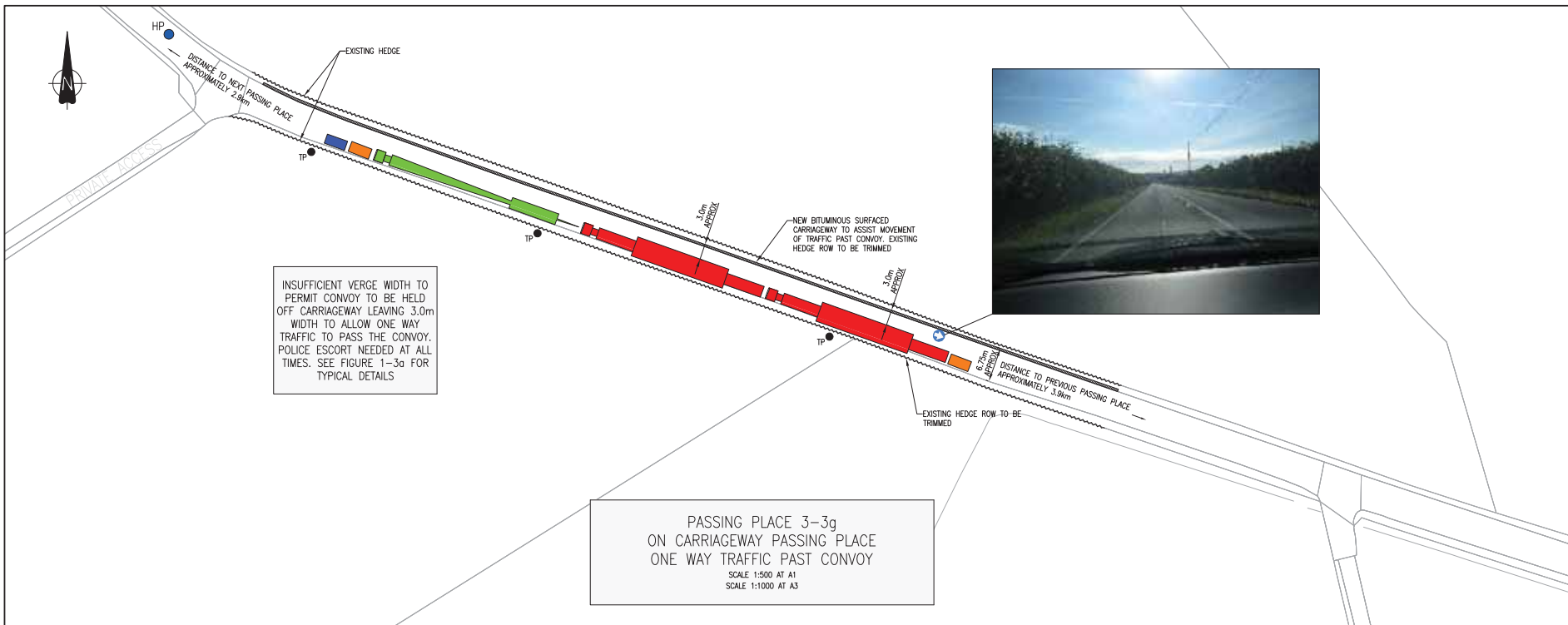
STATUS

FOR INFORMATION

DRAWN AR	CHECKED DH	APPROVED STW
DATE 16.08.11	DATE 16.08.11	DATE 16.08.11
DRAWING SCALE AS SHOWN		ORIGINAL DRAWING SIZE 594 x 841 - A1

DRAWING NO: **108526-FIG 3-3f** REV: **P3**





NOTES

LEGEND

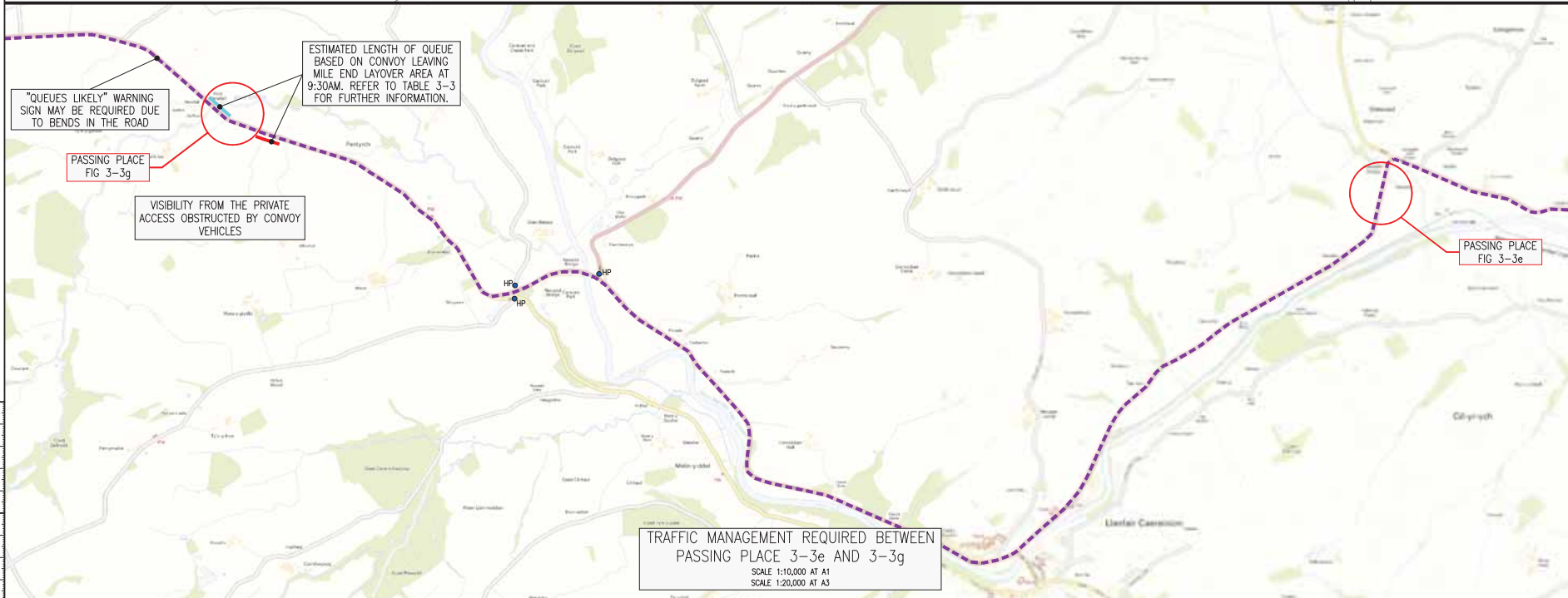
- ROUTE FROM WELSHPOOL TO SSA B (NORTH)
- HP POLICE HOLDING POINT
- RS ROAD SIGN
- TP TELEGRAPH POLE
- HARDENED VERGE
- RETAINING STRUCTURE
- SAFETY BARRIER
- ESTIMATED FOLLOWING TRAFFIC QUEUE
- ESTIMATED OPPOSING TRAFFIC QUEUE
- PHOTOGRAPH LOCATION AND DIRECTION
- NEW CARRIAGEWAY SURFACE

VEHICLES LEGEND

- TOWER BASE SECTION VEHICLE
- 45m BLADE VEHICLE
- CIVILIAN ESCORT VEHICLE
- POLICE ESCORT VEHICLE

NOTES

- REFER TO FIGURE 1-4a FOR FURTHER INFORMATION ON ASSUMED DELIVERY VEHICLES.
- BLADE DELIVERY VEHICLE ASSUMED TO LEAD AS IT WILL SET THE CONVOY SPEED.
- ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
- THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY. TOPOGRAPHICAL SURVEY OF THE AREA MAY BE REQUIRED PRIOR TO FURTHER DESIGN DEVELOPMENT.
- ONSITE MEASUREMENTS TAKEN AT LOCATIONS OF PROPOSED PASSING PLACES.



P5	VIEWPORT TITLES AMENDED	SB	FT	LL	15/08/11
P4	PASSING PLACE INFORMATION AMENDED FOLLOWING STAKEHOLDER LIAISON	SPL	FT	DLP	09/08/11
P3	NOTES AMENDED	SB	FT	DLP	27/04/11
P2	ADDITIONAL INFORMATION ADDED FOR PASSING PLACES FOLLOWING STAKEHOLDERS REVIEW	PSM	RS	DLP	20/03/11
REV	AMENDMENTS	BY	CHKD	APRD	DATE

Grontmij
 Blackwood House
 Ash Road South
 Wrexham Industrial Estate
 Wrexham
 LL13 9UG
 Tel : +44 (0)197 866 6200
 Fax: +44 (0)197 866 6229
 www.grontmij.co.uk

CLIENT
 RENEWABLEUK CYMRU

PROJECT
 STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

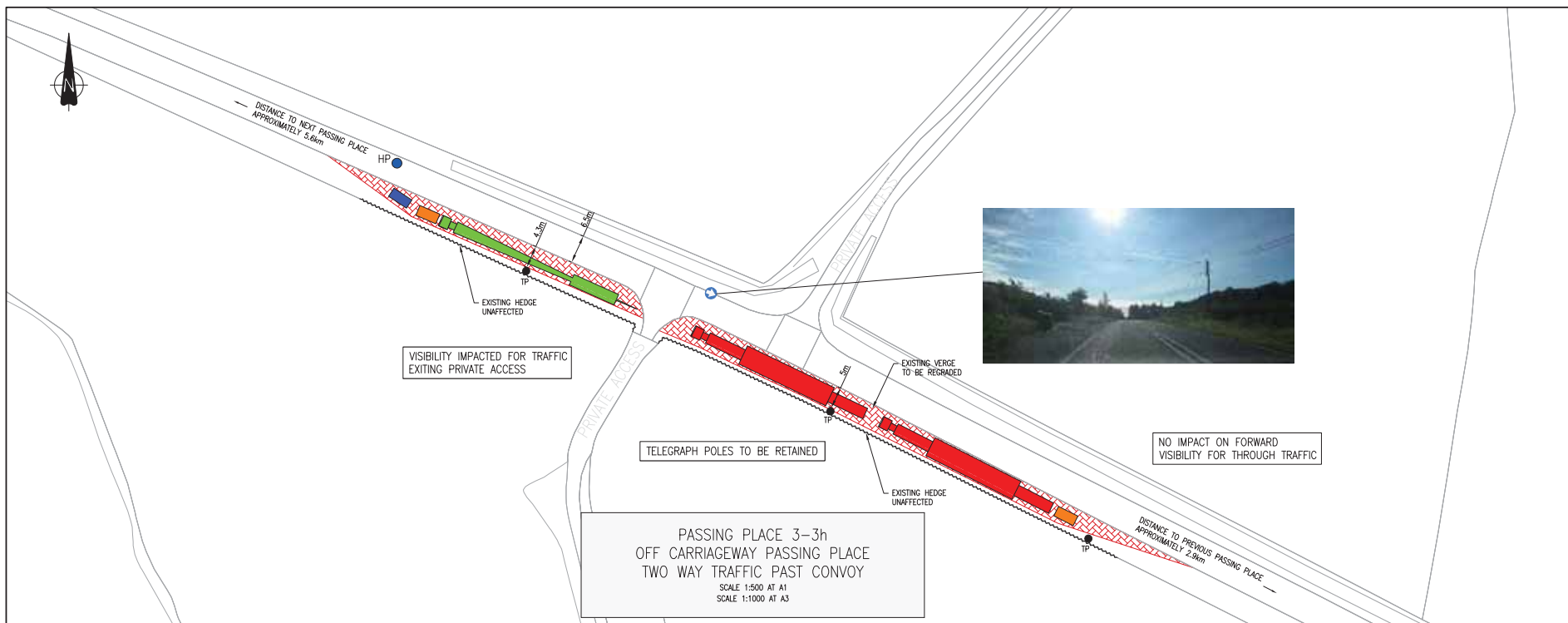
TITLE
 FIGURE 3-3g
 PASSING PLACE EINION

STATUS
 FOR INFORMATION

DRAWN AR	CHECKED DH	APPROVED STW
DATE 16.08.11	DATE 16.08.11	DATE 16.08.11
DRAWING SCALE AS SHOWN		ORIGINAL DRAWING SIZE 594 x 841 - A1

DRAWING NO
108526-FIG 3-3g

REV
P5



NOTES

LEGEND

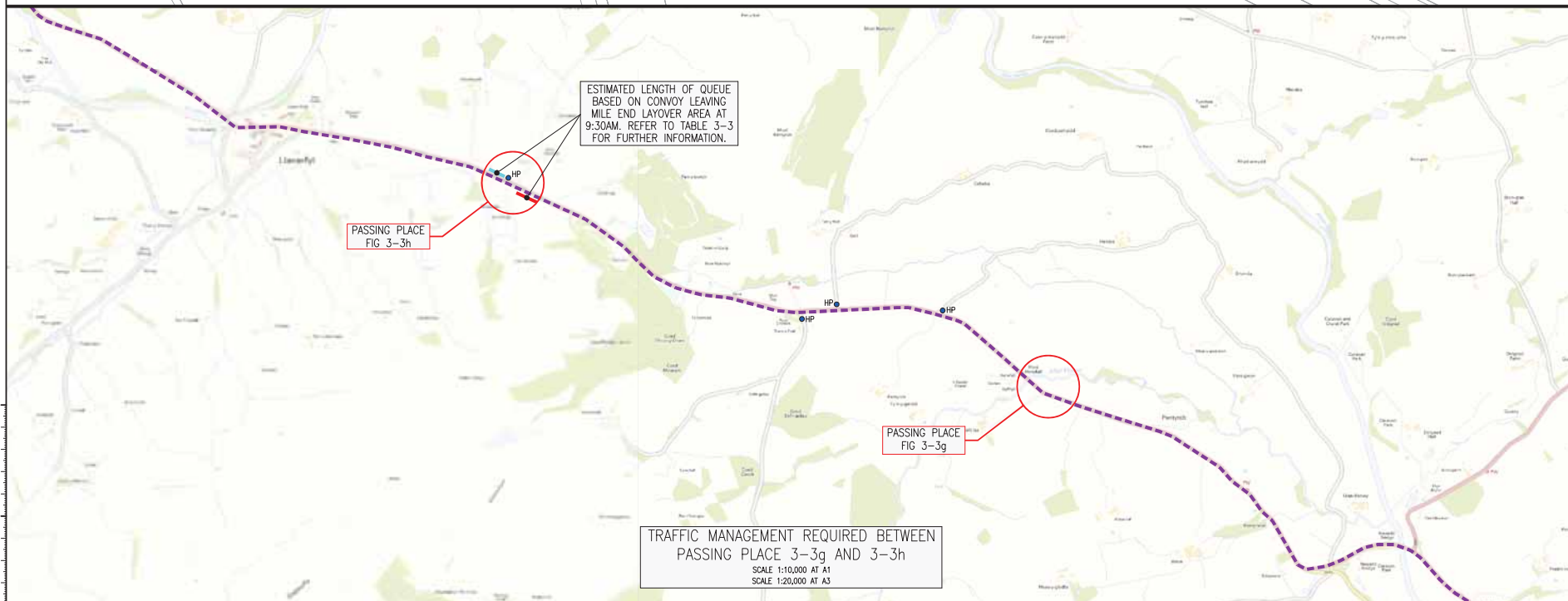
- ROUTE FROM WELSHPOOL TO SSA B (NORTH)
- HP POLICE HOLDING POINT
- RS ROAD SIGN
- TP TELEGRAPH POLE
- [Hatched Box] HARDENED VERGE
- - - RETAINING STRUCTURE
- - - SAFETY BARRIER
- [Red Line] ESTIMATED FOLLOWING TRAFFIC QUEUE
- [Blue Line] ESTIMATED OPPOSING TRAFFIC QUEUE
- [Blue Arrow] PHOTOGRAPH LOCATION AND DIRECTION
- [Grey Box] NEW CARRIAGEWAY SURFACE

VEHICLES LEGEND

- [Red Box] TOWER BASE SECTION VEHICLE
- [Green Box] 45m BLADE VEHICLE
- [Orange Box] CIVILIAN ESCORT VEHICLE
- [Blue Box] POLICE ESCORT VEHICLE

NOTES

1. REFER TO FIGURE 1-4a FOR FURTHER INFORMATION ON ASSUMED DELIVERY VEHICLES.
2. BLADE DELIVERY VEHICLE ASSUMED TO LEAD AS IT WILL SET THE CONVOY SPEED.
3. ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
4. THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY. TOPOGRAPHICAL SURVEY OF THE AREA MAY BE REQUIRED PRIOR TO FURTHER DESIGN DEVELOPMENT.
5. ONSITE MEASUREMENTS TAKEN AT LOCATIONS OF PROPOSED PASSING PLACES.



REV	AMENDMENTS	BY	CHKD	APRD	DATE
P4	PASSING PLACE INFORMATION AMENDED FOLLOWING STAKEHOLDER LIAISON	SRL	FT	DLP	09/08/11
P3	NOTES AMENDED	SB	FT	DLP	27/04/11
P2	ADDITIONAL INFORMATION ADDED FOR PASSING PLACES FOLLOWING STAKEHOLDERS REVIEW	PSM	RS	DLP	20/03/11

Grontmij
 Blackwood House
 Ash Road South
 Wrexham Industrial Estate
 Wrexham
 LL13 9UG
 Tel : +44 (0)1978 666 6200
 Fax : +44 (0)1978 666 6229
 www.grontmij.co.uk

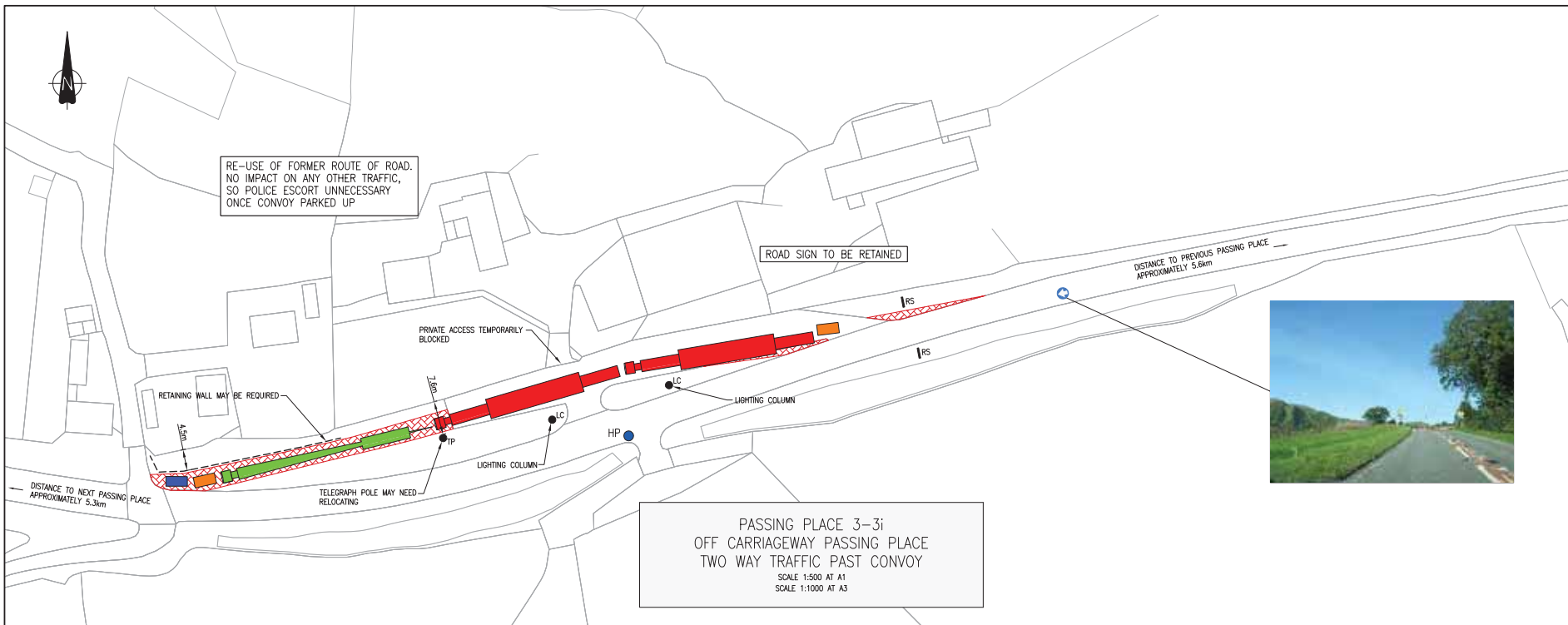
CLIENT
 RENEWABLEUK CYMRU

PROJECT
 STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE
 FIGURE 3-3h
 PASSING PLACE
 GYLFYLCHAU

STATUS
 FOR INFORMATION

DRAWN	CHECKED	APPROVED
AR	DH	STW
DATE 16.08.11	DATE 16.08.11	DATE 16.08.11
DRAWING SCALE AS SHOWN		ORIGINAL DRAWING SIZE 594 x 841 - A1
DRAWING NO	REV	
108526-FIG 3-3h	P4	



NOTES

LEGEND

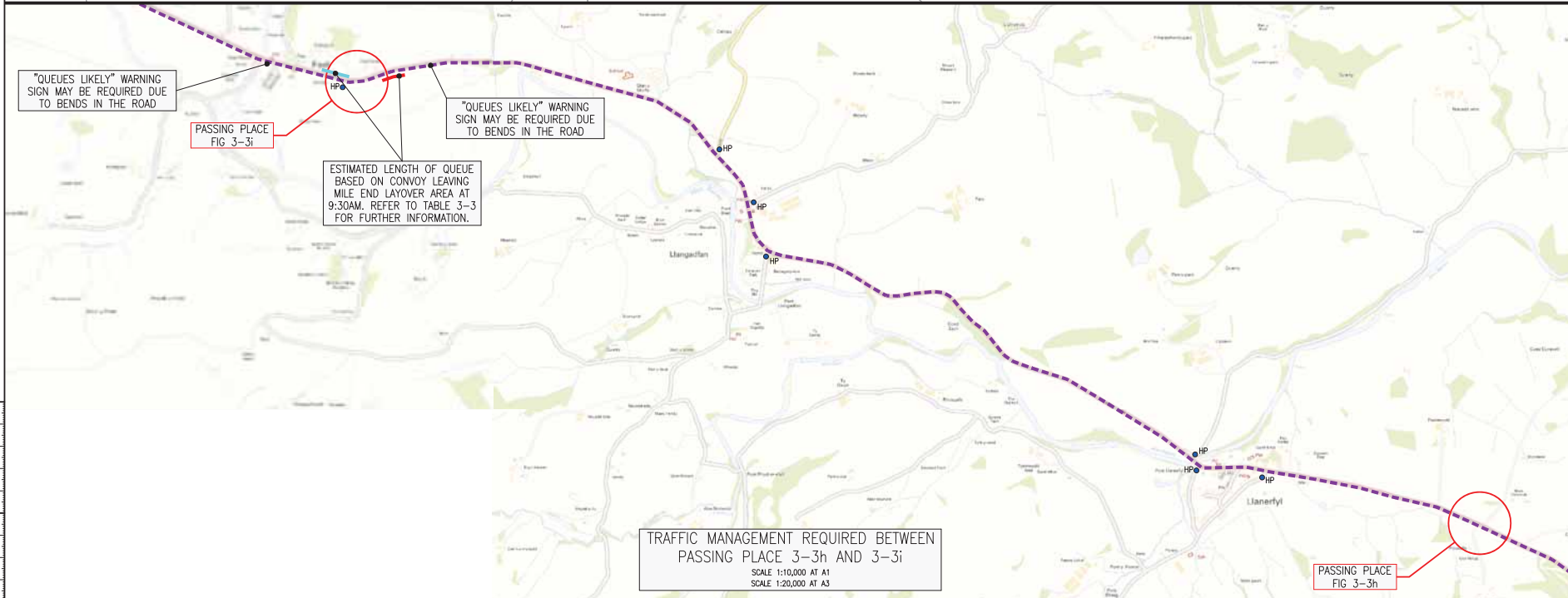
- ROUTE FROM WELSHPOOL TO SSA B (NORTH)
- HP POLICE HOLDING POINT
- RS ROAD SIGN
- TP TELEGRAPH POLE
- HARDENED VERGE
- RETAINING STRUCTURE
- SAFETY BARRIER
- ESTIMATED FOLLOWING TRAFFIC QUEUE
- ESTIMATED OPPOSING TRAFFIC QUEUE
- PHOTOGRAPH LOCATION AND DIRECTION
- NEW CARRIAGEWAY SURFACE

VEHICLES LEGEND

- TOWER BASE SECTION VEHICLE
- 45m BLADE VEHICLE
- CIVILIAN ESCORT VEHICLE
- POLICE ESCORT VEHICLE

NOTES

- REFER TO FIGURE 1-4a FOR FURTHER INFORMATION ON ASSUMED DELIVERY VEHICLES.
- BLADE DELIVERY VEHICLE ASSUMED TO LEAD AS IT WILL SET THE CONVOY SPEED.
- ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
- THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY. TOPOGRAPHICAL SURVEY OF THE AREA MAY BE REQUIRED PRIOR TO FURTHER DESIGN DEVELOPMENT.
- ONSITE MEASUREMENTS TAKEN AT LOCATIONS OF PROPOSED PASSING PLACES.



P4	PASSING PLACE INFORMATION AMENDED FOLLOWING STAKEHOLDER LIAISON	SPL	IFT	DLP	09/08/11
P3	HARDENED VERGE EXTENDED: NOTES CHANGED	SB	IFT	DLP	27/04/11
P2	ADDITIONAL INFORMATION ADDED FOR PASSING PLACES FOLLOWING STAKEHOLDERS REVIEW	PSM	RS	DLP	20/03/11
REV	AMENDMENTS	BY	CHWD	APRD	DATE

Grontmij
 Blackwood House
 Ash Road South
 Wrexham Industrial Estate
 Wrexham
 LL13 9UG
 Tel : +44 (0)197 866 6200
 Fax : +44 (0)197 866 6229
 www.grontmij.co.uk

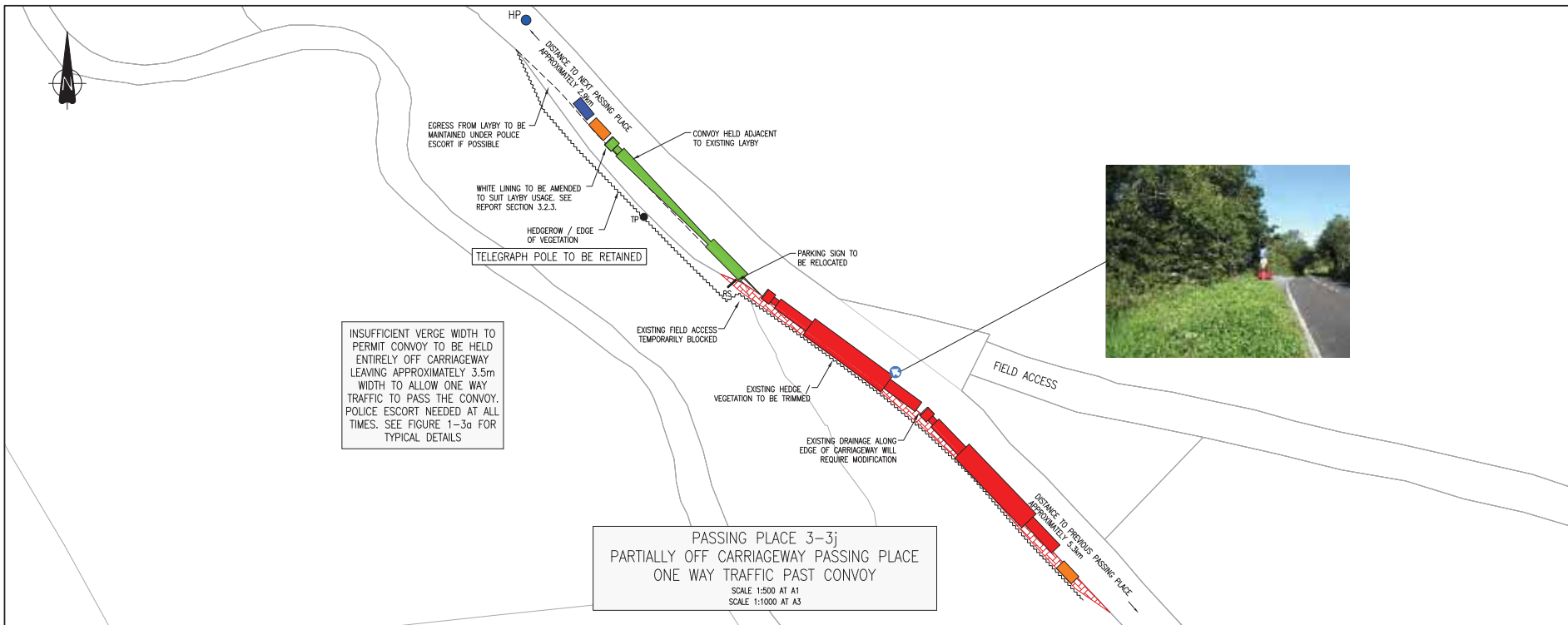
RENEWABLEUK CYMRU

PROJECT
 STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE
 FIGURE 3-3i
 PASSING PLACE
 FOEL

STATUS
 FOR INFORMATION

DRAWN	CHECKED	APPROVED
AR	DH	STW
DATE	DATE	DATE
16.08.11	16.08.11	16.08.11
DRAWING SCALE		ORIGINAL DRAWING SIZE
AS SHOWN		594 x 841 - A1
DRAWING NO.	REV	
108526-FIG 3-3i	P4	



INSUFFICIENT VERGE WIDTH TO PERMIT CONVOY TO BE HELD ENTIRELY OFF CARRIAGEWAY LEAVING APPROXIMATELY 3.5m WIDTH TO ALLOW ONE WAY TRAFFIC TO PASS THE CONVOY. POLICE ESCORT NEEDED AT ALL TIMES. SEE FIGURE 1-3a FOR TYPICAL DETAILS

PASSING PLACE 3-3j
PARTIALLY OFF CARRIAGEWAY PASSING PLACE
ONE WAY TRAFFIC PAST CONVOY
SCALE 1:500 AT A1
SCALE 1:1000 AT A3

NOTES

LEGEND

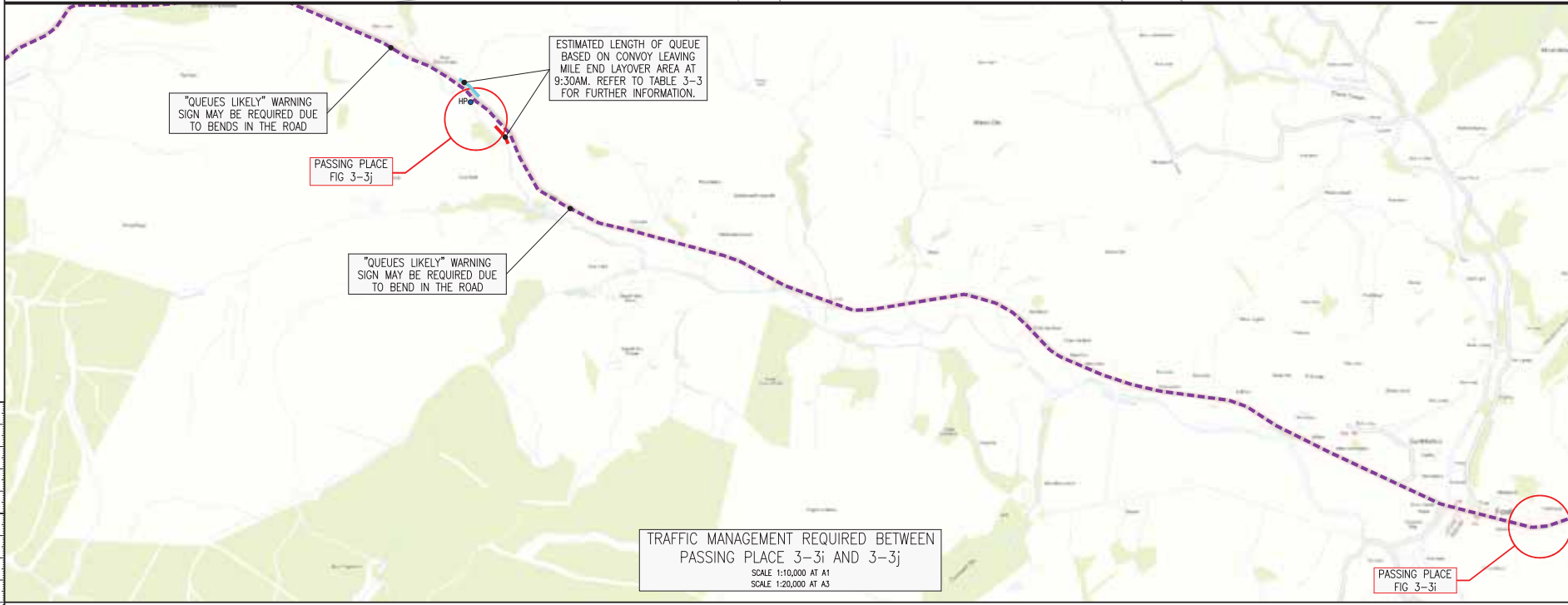
- ROUTE FROM WELSHPOOL TO SSA B (NORTH)
- HP POLICE HOLDING POINT
- RS ROAD SIGN
- TP TELEGRAPH POLE
- HARDENED VERGE
- RETAINING STRUCTURE
- SAFETY BARRIER
- ESTIMATED FOLLOWING TRAFFIC QUEUE
- ESTIMATED OPPOSING TRAFFIC QUEUE
- PHOTOGRAPH LOCATION AND DIRECTION
- NEW CARRIAGEWAY SURFACE

VEHICLES LEGEND

- TOWER BASE SECTION VEHICLE
- 45m BLADE VEHICLE
- CIVILIAN ESCORT VEHICLE
- POLICE ESCORT VEHICLE

NOTES

- REFER TO FIGURE 1-4a FOR FURTHER INFORMATION ON ASSUMED DELIVERY VEHICLES.
- BLADE DELIVERY VEHICLE ASSUMED TO LEAD AS IT WILL SET THE CONVOY SPEED.
- ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
- THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY. TOPOGRAPHICAL SURVEY OF THE AREA MAY BE REQUIRED PRIOR TO FURTHER DESIGN DEVELOPMENT.
- ONSITE MEASUREMENTS TAKEN AT LOCATIONS OF PROPOSED PASSING PLACES.



TRAFFIC MANAGEMENT REQUIRED BETWEEN
PASSING PLACE 3-3i AND 3-3j
SCALE 1:10,000 AT A1
SCALE 1:20,000 AT A3

P4	PASSING PLACE INFORMATION AMENDED FOLLOWING STAKEHOLDER LIAISON	SPL	FT	DLP	09/08/11
P3	NOTES AMENDED	SB	FT	DLP	27/04/11
P2	ADDITIONAL INFORMATION ADDED FOR PASSING PLACES FOLLOWING STAKEHOLDERS REVIEW	PSM	RS	DLP	20/03/11
REV	AMENDMENTS	BY	CHKD	APRD	DATE

Grontmij
Blackwood House
Ash Road South
Wrexham Industrial Estate
Wrexham LL13 9UG
Tel : +44 (0)197 866 6200
Fax : +44 (0)197 866 6229
www.grontmij.co.uk

Head, Cardiff, Dublin, Edinburgh, Glasgow, Leeds, London, Peterborough, Reading, Salford, Wrexham

CLIENT
RENEWABLEUK CYMRU

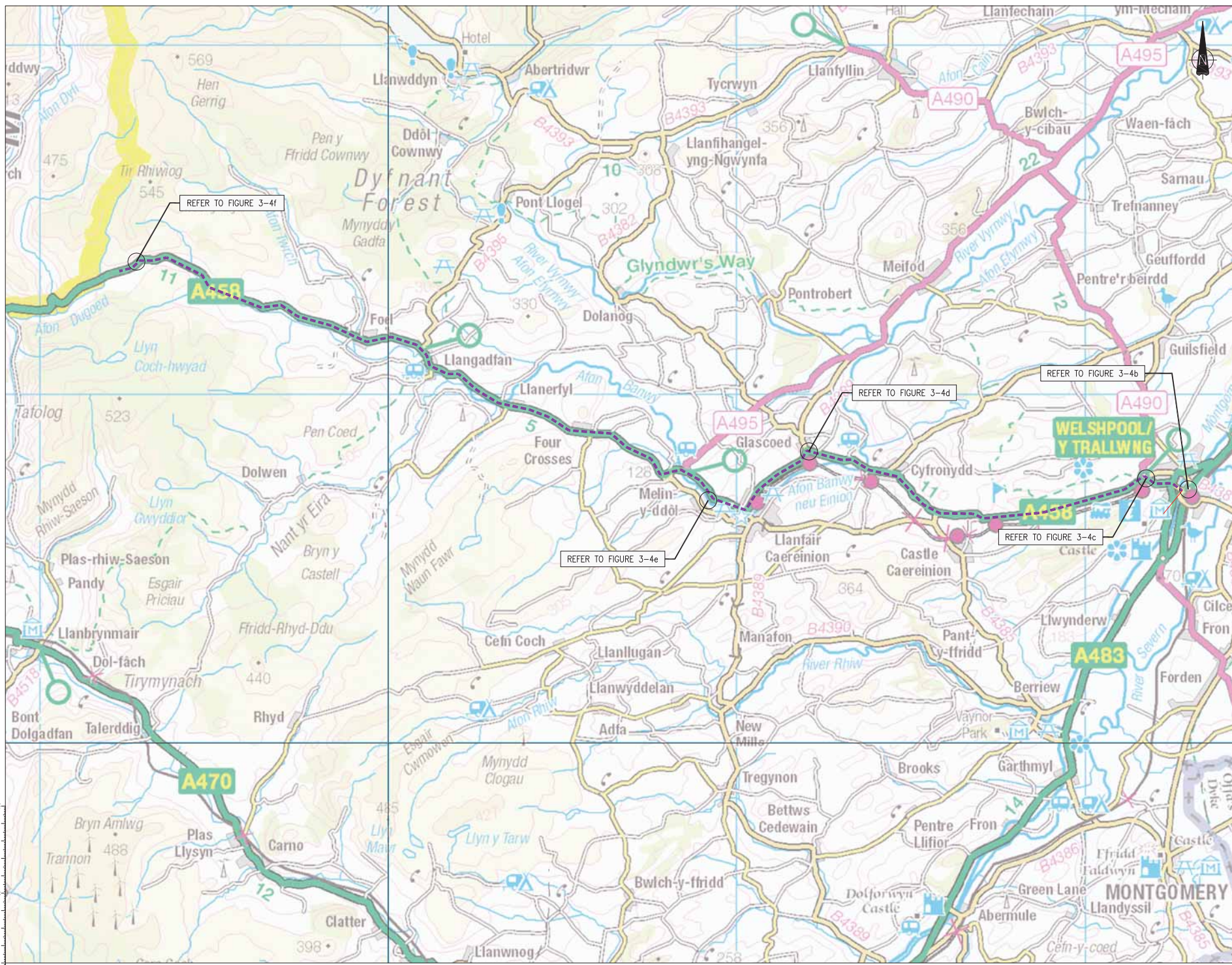
PROJECT
STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE
**FIGURE 3-3j
PASSING PLACE
DOL-Y-MAEN**

STATUS
FOR INFORMATION

DRAWN AR	CHECKED DH	APPROVED STW
DATE 16.08.11	DATE 16.08.11	DATE 16.08.11
DRAWING SCALE AS SHOWN		ORIGINAL DRAWING SIZE 594 x 841 - A1

DRAWING NO: **108526-FIG 3-3j** REV: **P4**



NOTES

LEGEND

--- ROUTE FROM WELSHPOOL TO SSA B (NORTH)

NO	SCALE NOTES AMENDED	BY	MC	DUP	06/03/12
REV	AMENDMENTS	BY	CHKD	APPRD	DATE

Grontmij
 Blackwood House
 Ash Road South
 Wrexham Industrial Estate
 Wrexham
 LL13 8UG
 Tel: +44 (0)197 866 6200
 Fax: +44 (0)197 866 6229
 www.grontmij.co.uk

CLIENT: RENEWABLEUK CYMRU

PROJECT: STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE: FIGURE 3-4a SWEPT PATH ANALYSIS OVERVIEW ALONG ROUTE FROM WELSHPOOL TO SSA B (NORTH)

STATUS: FOR INFORMATION

DRAWN	CHECKED	APPROVED
DPL	BY	DH
DATE	DATE	DATE
18/08/11	18/08/11	18/08/11
DRAWING SCALE	1:50000 at A1	ORIGINAL DRAWING SIZE
	1:100000 at A3	594 x 841 - A1
DRAWING NO:	108526-FIG 3-4a	REV:
		B



NOTES

KEY:-

- VEHICLE OUTLINE
- CHASSIS SWEEP-PATH
- LOAD OVERSAIL

- ASSUMED HIGHWAY BOUNDARY
- EXISTING STREET FURNITURE
- RELOCATED STREET FURNITURE
- PHOTOGRAPH LOCATION AND DIRECTION
- LOAD OVERSAIL ENVELOPE
- CARRIAGEWAY IMPROVEMENT WORKS
- VEHICLE OVER-RUN CONSTRUCTION
- FOOTWAY WORKS
- VEGETATION CLEARANCE

NOTES:-

- AUTOTRACK SWEEP PATH ANALYSIS CARRIED OUT ASSUMING ABNORMAL LOAD ESCORTS ARE PRESENT.
- VEHICLE USED FOR SWEEP PATH ANALYSIS BASED UPON A 45m BLADE DELIVERY VEHICLE. REFER TO FIGURE 1-4a FOR FURTHER INFORMATION.
- SWEEP PATH ANALYSIS CARRIED OUT AGAINST ORDNANCE SURVEY DATA.
- MANUAL REAR STEERING ONLY DEEMED NECESSARY IF NOTED WITHIN THE HIGHWAY WORKS PLAN.
- ALL HIGHWAY WORKS HAVE BEEN CREATED ASSUMING AN ADDITIONAL 500mm EXTRA OVER THE AREA OF VEHICLE SWEEP PATH.
- ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
- THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY. TOPOGRAPHICAL SURVEY OF THE AREA WILL BE REQUIRED PRIOR TO FURTHER DESIGN DEVELOPMENT.

REV	AMENDMENTS	BY	CHKD	APRD	DATE
P2	SCALE NOTES AMENDED	IFT	MC	GUP	20/03/12

Blackwood House
Ash Road South
Wrexham Industrial Estate
Wrexham
LL13 8UG

Tel: +44 (0)197 866 6200
Fax: +44 (0)197 866 6229
www.grontmij.co.uk

CLIENT: RENEWABLEUK CYMRU

PROJECT: STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE: FIGURE 3-4b SWEEP PATH ANALYSIS WELSHPOOL BYPASS ROUNDABOUT AND SEVERN STREET ROUNDABOUT

STATUS: FOR INFORMATION

DRAWN	CHECKED	APPROVED
MC	IFT	DH
DATE 14/09/11	DATE 14/09/11	DATE 14/09/11
DRAWING SCALE AS SHOWN	ORIGINAL DRAWING SIZE 594 x 841 - A1	REV: 108526-FIG 3-4b



Blackwood House
Ash Road South
Wrexham Industrial Estate
Wrexham
LL13 8UG

Tel: +44 (0)197 866 6200
Fax: +44 (0)197 866 6229
www.grontmij.co.uk

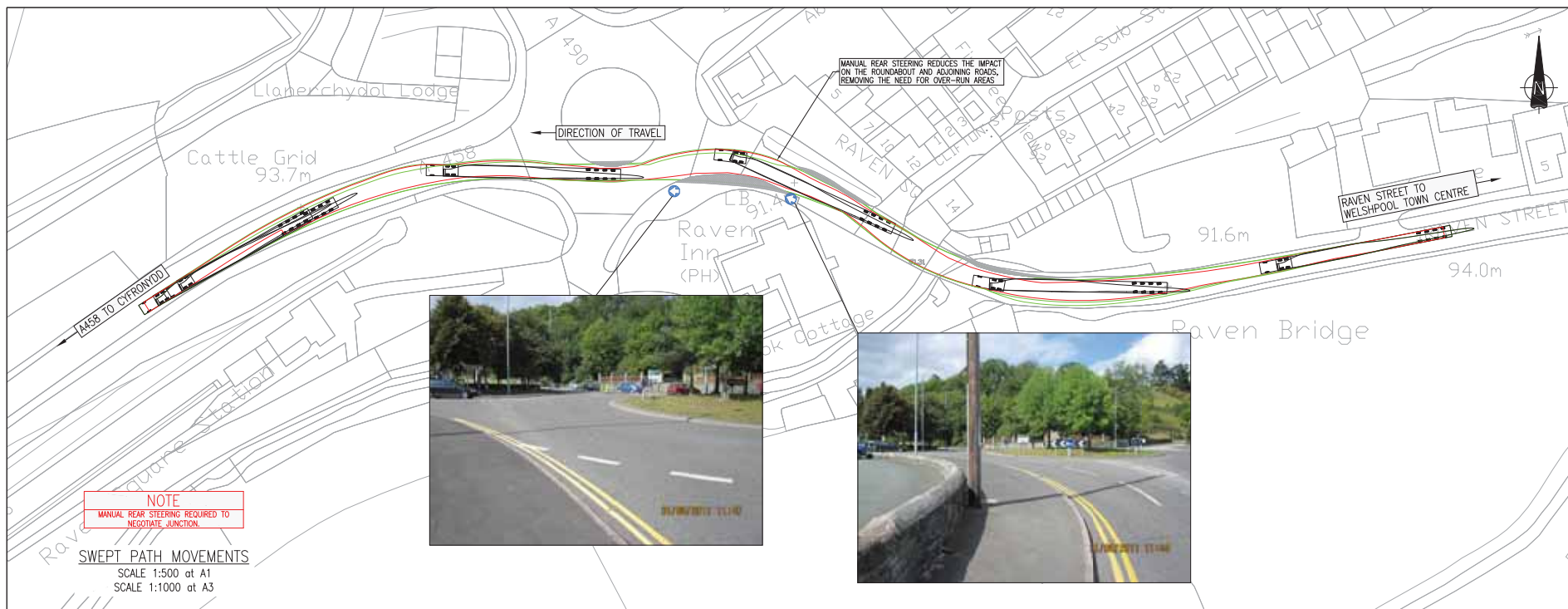
CLIENT: RENEWABLEUK CYMRU

PROJECT: STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE: FIGURE 3-4b SWEEP PATH ANALYSIS WELSHPOOL BYPASS ROUNDABOUT AND SEVERN STREET ROUNDABOUT

STATUS: FOR INFORMATION

DRAWN	CHECKED	APPROVED
MC	IFT	DH
DATE 14/09/11	DATE 14/09/11	DATE 14/09/11
DRAWING SCALE AS SHOWN	ORIGINAL DRAWING SIZE 594 x 841 - A1	REV: 108526-FIG 3-4b



NOTE
 MANUAL REAR STEERING REQUIRED TO NEGOTIATE JUNCTION.
SWEPT PATH MOVEMENTS
 SCALE 1:500 at A1
 SCALE 1:1000 at A3

- NOTES**
- KEY:-**
- VEHICLE OUTLINE
 - CHASSIS SWEEP-PATH
 - LOAD OVERSAIL
 - ASSUMED HIGHWAY BOUNDARY
 - EXISTING STREET FURNITURE
 - RELOCATED STREET FURNITURE
 - PHOTOGRAPH LOCATION AND DIRECTION
 - LOAD OVERSAIL ENVELOPE
 - CARRAGEWAY IMPROVEMENT WORKS
 - VEHICLE OVER-RUN CONSTRUCTION
 - FOOTWAY WORKS
 - VEGETATION CLEARANCE
1. AUTOTRACK SWEEP PATH ANALYSIS CARRIED OUT ASSUMING ABNORMAL LOAD ESCORTS ARE PRESENT.
 2. VEHICLE USED FOR SWEEP PATH ANALYSIS BASED UPON A 45m BLADE DELIVERY VEHICLE. REFER TO FIGURE 1-4a FOR FURTHER INFORMATION.
 3. SWEEP PATH ANALYSIS CARRIED OUT AGAINST ORDNANCE SURVEY DATA.
 4. MANUAL REAR STEERING ONLY DEEMED NECESSARY IF NOTED WITHIN THE HIGHWAY WORKS PLAN.
 5. ALL HIGHWAY WORKS HAVE BEEN CREATED ASSUMING AN ADDITIONAL 500mm EXTRA OVER THE AREA OF VEHICLE SWEEP PATH.
 6. ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
 7. THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY. TOPOGRAPHICAL SURVEY OF THE AREA WILL BE REQUIRED PRIOR TO FURTHER DESIGN DEVELOPMENT.



HIGHWAY WORKS
 SCALE 1:500 at A1
 SCALE 1:1000 at A3

P2	SCALE NOTES AMENDED	IFT	MC	GLP	26/03/12
REV	AMENDMENTS	BY	CHKD	APRD	DATE

Grontmij
 Blackwood House
 Ash Road South
 Wrexham Industrial Estate
 Wrexham
 LL13 8UG
 Tel: +44 (0)1978 866 6200
 Fax: +44 (0)1978 866 6229
 www.grontmij.co.uk

Black, Cardiff, Dublin, Edinburgh, Glasgow, Leeds, London, Manchester, Reading, Southampton, Wrexham

CLIENT
 RENEWABLEUK CYMRU

PROJECT
 STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

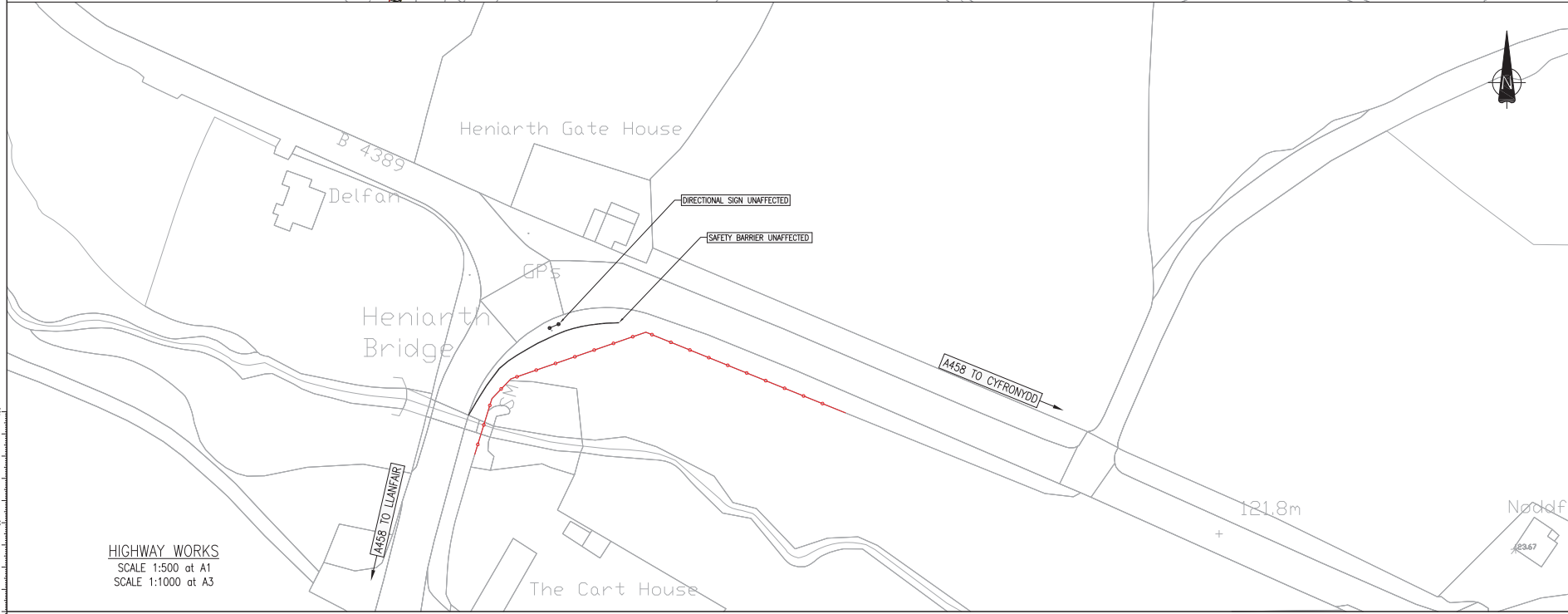
TITLE
 FIGURE 3-4c
 SWEEP PATH ANALYSIS
 A490 ROUNDABOUT AND
 RAVEN STREET

STATUS
 FOR INFORMATION

DRAWN	CHECKED	APPROVED
MC	IFT	DH
DATE	DATE	DATE
15/09/11	15/09/11	15/09/11
DRAWING SCALE	ORIGINAL DRAWING SIZE	
AS SHOWN	594 x 841 - A1	
DRAWING NO:	108526-FIG 3-4c	REV:
		P2



SWEPT PATH MOVEMENTS
SCALE 1:500 at A1
SCALE 1:1000 at A3



HIGHWAY WORKS
SCALE 1:500 at A1
SCALE 1:1000 at A3

NOTES

KEY:-

- VEHICLE OUTLINE
- CHASSIS SWEEP-PATH
- LOAD OVERSAIL
- ASSUMED HIGHWAY BOUNDARY
- EXISTING STREET FURNITURE
- RELOCATED STREET FURNITURE
- PHOTOGRAPH LOCATION AND DIRECTION
- LOAD OVERSAIL ENVELOPE
- CARRIAGEWAY IMPROVEMENT WORKS
- VEHICLE OVER-RUN CONSTRUCTION
- FOOTWAY WORKS
- VEGETATION CLEARANCE

NOTES:-

- AUTOTRACK SWEEP PATH ANALYSIS CARRIED OUT ASSUMING ABNORMAL LOAD ESCORTS ARE PRESENT.
- VEHICLE USED FOR SWEEP PATH ANALYSIS BASED UPON A 45m BLADE DELIVERY VEHICLE. REFER TO FIGURE 1-4a FOR FURTHER INFORMATION.
- SWEPT PATH ANALYSIS CARRIED OUT AGAINST ORDINANCE SURVEY DATA.
- MANUAL REAR STEERING ONLY DEEMED NECESSARY IF NOTED WITHIN THE HIGHWAY WORKS PLAN.
- ALL HIGHWAY WORKS HAVE BEEN CREATED ASSUMING AN ADDITIONAL 500mm EXTRA OVER THE AREA OF VEHICLE SWEEP PATH.
- ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
- THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY. TOPOGRAPHICAL SURVEY OF THE AREA WILL BE REQUIRED PRIOR TO FURTHER DESIGN DEVELOPMENT.

REV	SCALE NOTES AMENDED	BY	CHKD	APPD	DATE
P2		IFT	MC	DLP	20/03/12

Grontmij

Blackwood House
Ash Road South
Wrexham Industrial Estate
Wrexham
LL13 8UG

Tel: +44 (0)197 866 6200
Fax: +44 (0)197 866 6229
www.grontmij.co.uk

Black, Cardiff, Dublin, Edinburgh, Glasgow, Leeds, London, Peterborough, Reading, Southampton, Wrexham

CLIENT
RENEWABLEUK CYMRU

PROJECT
STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE
**FIGURE 3-4d
SWEPT PATH ANALYSIS
B4389 HENIARTH**

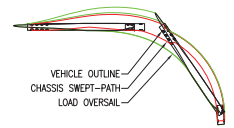
STATUS
FOR INFORMATION

DRAWN	CHECKED	APPROVED
MC	IFT	DH
DATE 15/09/11	DATE 15/09/11	DATE 15/09/11
DRAWING SCALE AS SHOWN	ORIGINAL DRAWING SIZE 594 x 841 - A1	

DRAWING NO: **108526-FIG 3-4d** REV: **P2**

NOTES

KEY:-



- ASSUMED HIGHWAY BOUNDARY
- EXISTING STREET FURNITURE
- RELOCATED STREET FURNITURE
- ⊕ PHOTOGRAPH LOCATION AND DIRECTION
- ▭ LOAD OVERSAIL ENVELOPE
- ▨ CARRIAGEWAY IMPROVEMENT WORKS
- ▭ VEHICLE OVER-RUN CONSTRUCTION
- ▨ FOOTWAY WORKS
- ▨ VEGETATION CLEARANCE

NOTES:-

1. AUTOTRACK SWEEP PATH ANALYSIS CARRIED OUT ASSUMING ABNORMAL LOAD ESCORTS ARE PRESENT.
2. VEHICLE USED FOR SWEEP PATH ANALYSIS BASED UPON A 45m BLADE DELIVERY VEHICLE. REFER TO FIGURE 1-4a FOR FURTHER INFORMATION.
3. SWEEP PATH ANALYSIS CARRIED OUT AGAINST ORDINANCE SURVEY DATA.
4. MANUAL REAR STEERING ONLY DEEMED NECESSARY IF NOTED WITHIN THE HIGHWAY WORKS PLAN.
5. ALL HIGHWAY WORKS HAVE BEEN CREATED ASSUMING AN ADDITIONAL 500mm EXTRA OVER THE AREA OF VEHICLE SWEEP PATH.
6. ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
7. THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY. TOPOGRAPHICAL SURVEY OF THE AREA WILL BE REQUIRED PRIOR TO FURTHER DESIGN DEVELOPMENT.

P2	SCALE NOTES AMENDED	IFT	MC	GLP	20/03/12
REV	AMENDMENTS	BY	CHKD	APPRD	DATE

Grontmij
 Blackwood House
 Ash Road South
 Wrexham Industrial Estate
 Wrexham LL13 8UG
 Tel: +44 (0)197 866 6200
 Fax: +44 (0)197 866 6229
 www.grontmij.co.uk

Black, Cardiff, Dublin, Edinburgh, Glasgow, Leeds, London, Manchester, Reading, Southampton, Wrexham

CLIENT

RENEWABLEUK CYMRU

PROJECT

STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE

FIGURE 3-4e
 SWEEP PATH ANALYSIS
 A458 NEAR MELIN-Y-DDOL

STATUS

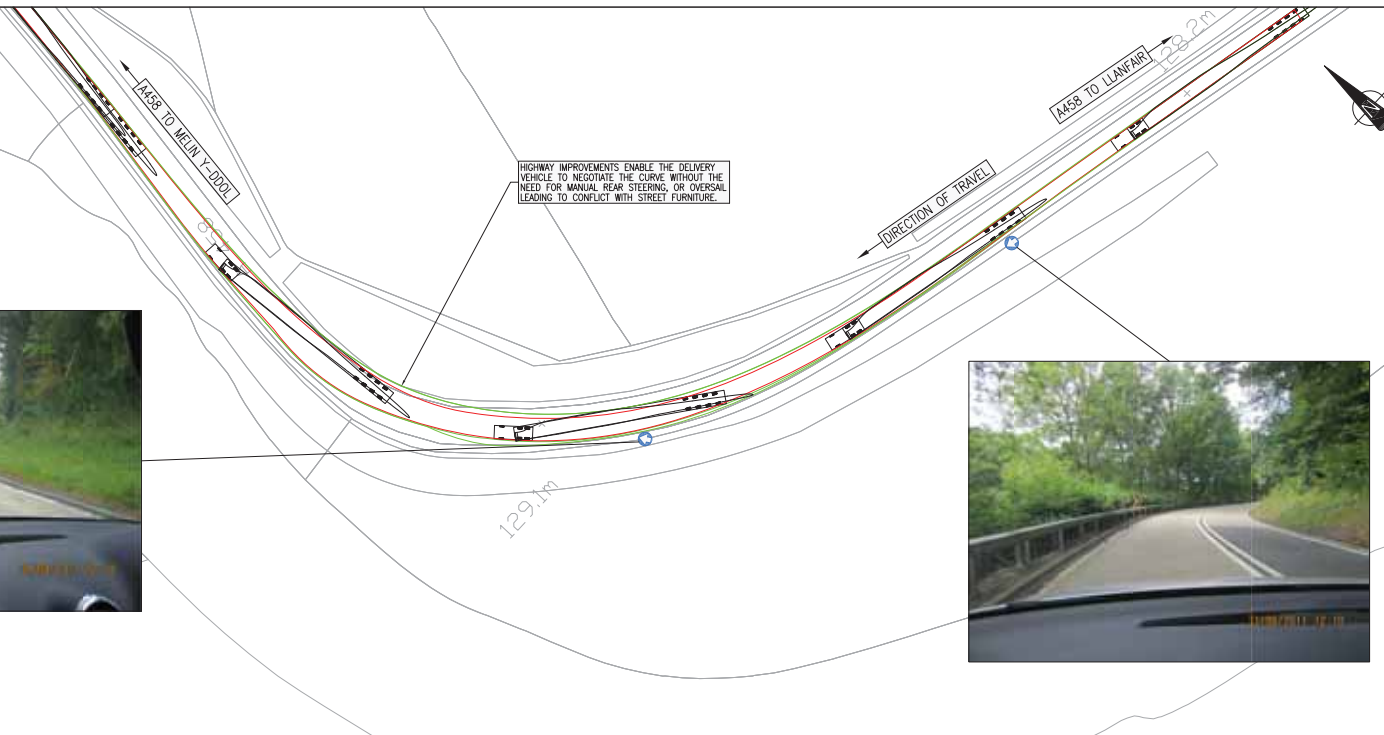
FOR INFORMATION

DRAWN	CHECKED	APPROVED
MC	IFT	DH
DATE	DATE	DATE
15/09/11	15/09/11	15/09/11
DRAWING SCALE	ORIGINAL DRAWING SIZE	
AS SHOWN	594 x 841 - A1	
DRAWING NO:	REV:	
108526-FIG 3-4e	P2	



SWEEP PATH MOVEMENTS

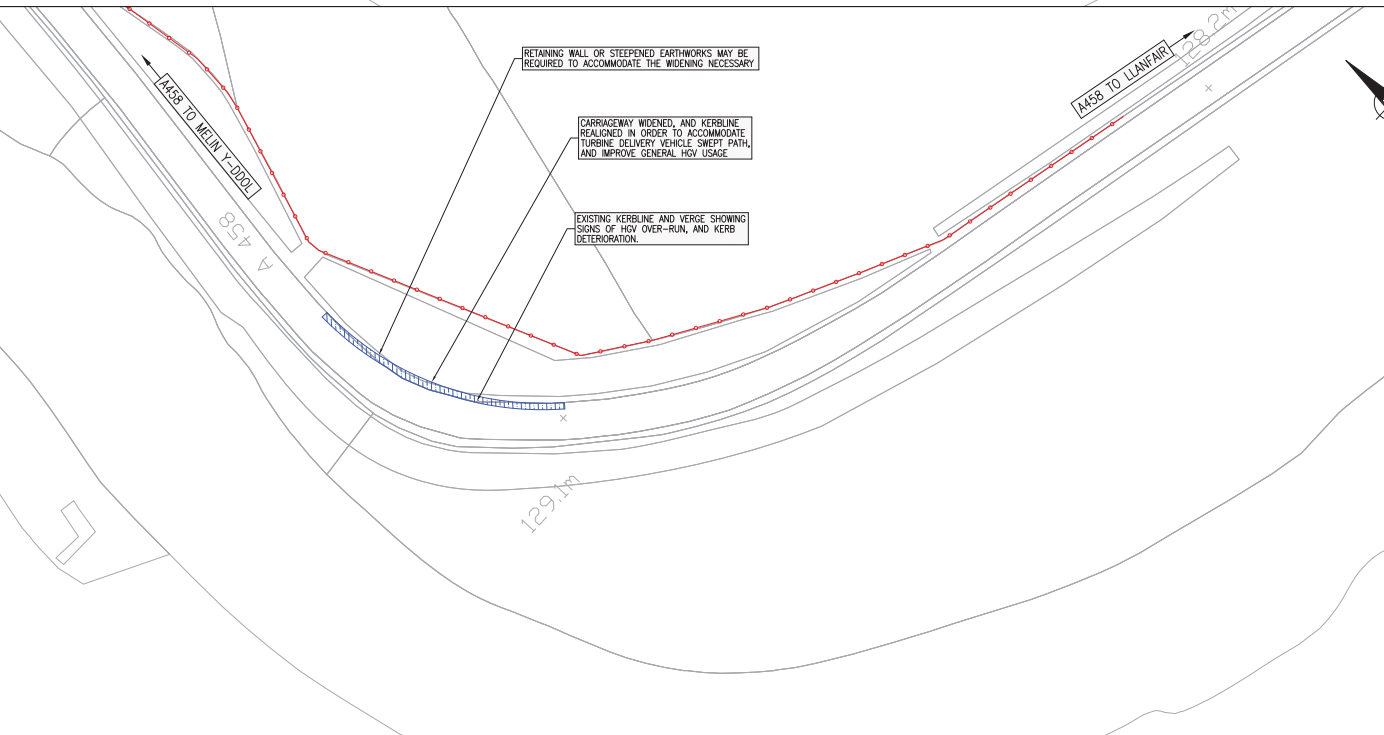
SCALE 1:500 at A1
 SCALE 1:1000 at A3



RETAINING WALL OR STEEPENED EARTHWORKS MAY BE REQUIRED TO ACCOMMODATE THE WIDENING NECESSARY

CARRIAGEWAY WIDENED, AND KERBLINE REALIGNED IN ORDER TO ACCOMMODATE TURNING DELIVERY VEHICLES SWEEP PATH, AND IMPROVE GENERAL HGV USAGE

EXISTING KERBLINE AND VERGE SHOWING SIGNS OF HGV OVER-RUN, AND KERB DEGENERATION



HIGHWAY WORKS

SCALE 1:500 at A1
 SCALE 1:1000 at A3



NOTE
CARRIAGEWAY LIMITS NOT SHOWN IN ORDNANCE SURVEY MAPPING. ASSESSMENT IS BASED UPON A VISUAL SURVEY, WHERE THE ROAD WIDTH APPEARS TO BE 6.0m WIDE.

NOTE
MANUAL REAR STEERING REQUIRED TO NEGOTIATE CURVE.

MANUAL REAR STEERING UTILISED IN ORDER TO REMOVE THE NECESSITY FOR HIGHWAY WORKS

OVERSAIL TOLERANCE RESTRICTED DUE TO THE LIMITED NATURE OF THE LAND AVAILABLE

SWEPT PATH MOVEMENTS
SCALE 1:500 at A1
SCALE 1:1000 at A3

HIGHWAY WORKS
SCALE 1:500 at A1
SCALE 1:1000 at A3



NOTES

- KEY:-**
- VEHICLE OUTLINE
 - CHASSIS SWEEP-PATH
 - LOAD OVERSAIL
 - ASSUMED HIGHWAY BOUNDARY
 - EXISTING STREET FURNITURE
 - RELOCATED STREET FURNITURE
 - PHOTOGRAPH LOCATION AND DIRECTION
 - LOAD OVERSAIL ENVELOPE
 - CARRIAGEWAY IMPROVEMENT WORKS
 - VEHICLE OVER-RUN CONSTRUCTION
 - FOOTWAY WORKS
 - VEGETATION CLEARANCE

- NOTES:-**
1. AUTOTRACK SWEEP PATH ANALYSIS CARRIED OUT ASSUMING ABNORMAL LOAD ESCORTS ARE PRESENT.
 2. VEHICLE USED FOR SWEEP PATH ANALYSIS BASED UPON A 45m BLADE DELIVERY VEHICLE. REFER TO FIGURE 1-4a FOR FURTHER INFORMATION.
 3. SWEEP PATH ANALYSIS CARRIED OUT AGAINST ORDNANCE SURVEY DATA.
 4. MANUAL REAR STEERING ONLY DEEMED NECESSARY IF NOTED WITHIN THE HIGHWAY WORKS PLAN.
 5. ALL HIGHWAY WORKS HAVE BEEN CREATED ASSUMING AN ADDITIONAL 500mm EXTRA OVER THE AREA OF VEHICLE SWEEP PATH.
 6. ENVIRONMENTAL ASSESSMENT OF PROPOSED WORKS TO BE UNDERTAKEN BY OTHERS.
 7. THE WORKS IDENTIFIED ARE PRELIMINARY SOLUTIONS ONLY. TOPOGRAPHICAL SURVEY OF THE AREA WILL BE REQUIRED PRIOR TO FURTHER DESIGN DEVELOPMENT.

P2	SCALE NOTES AMENDED	IFT	MC	DLP	20/03/12
REV	AMENDMENTS	BY	CHKD	APRD	DATE

Grontmij
Blackwood House
Ash Road South
Wrexham Industrial Estate
Wrexham LL13 8UG
Tel : +44 (0)197 866 6200
Fax: +44 (0)197 866 6229
www.grontmij.co.uk

Black, Cardiff, Dublin, Edinburgh, Glasgow, Leeds, London, Manchester, Reading, Southampton, Wrexham

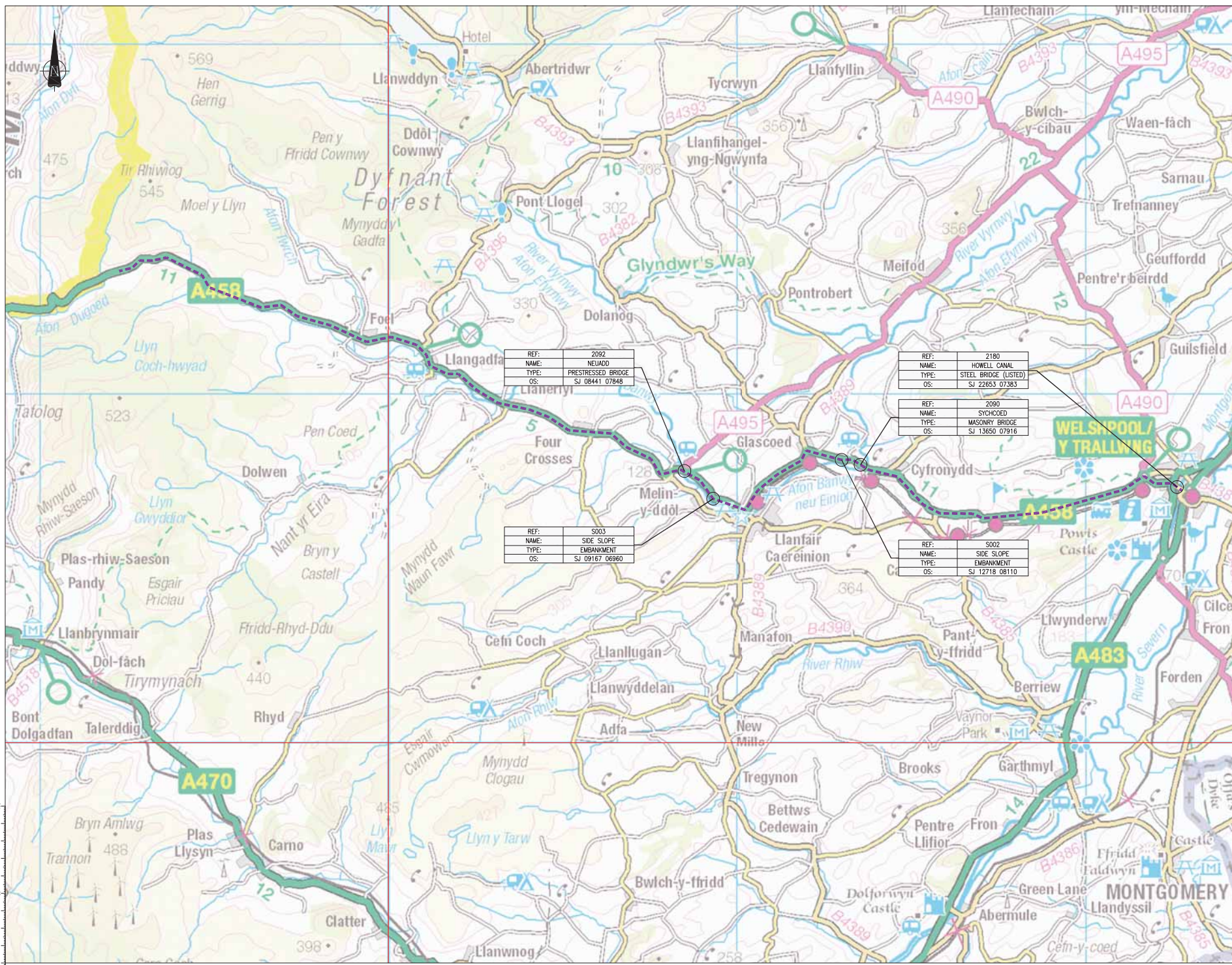
CLIENT
RENEWABLEUK CYMRU

PROJECT
STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES FARM WIND FARMS

TITLE
FIGURE 3-4f
SWEPT PATH ANALYSIS
A458 WEST OF FOEL

STATUS
FOR INFORMATION

DRAWN	CHECKED	APPROVED
MC	IFT	DH
DATE	DATE	DATE
15/09/11	15/09/11	15/09/11
DRAWING SCALE	ORIGINAL DRAWING SIZE	
AS SHOWN	594 x 841 - A1	
DRAWING NO.	REV.	
108526-FIG 3-4f	P2	



NOTES

LEGEND

- ROUTE FROM WELSHPOOL TO SSA B (NORTH)
- HIGHWAY AUTHORITY BOUNDARY

NOTES

- REF = HIGHWAY AUTHORITY STRUCTURE REFERENCE
- OS = GRID REFERENCE
- INFORMATION OBTAINED FROM RELEVANT HIGHWAY AUTHORITY AND THROUGH SITE VISITS.

P2	SCALE NOTES AMENDED	BT	MC	DUP	20/03/12
REV	AMENDMENTS	BY	CHKD	APPD	DATE

Grontmij
 Blackwood House
 Ash Road South
 Wrexham Industrial Estate
 Wrexham
 LL13 8UG
 Tel: +44 (0)197 866 6200
 Fax: +44 (0)197 866 6229
 www.grontmij.co.uk

Blackwood House, Dalkeith, Edinburgh; Glasgow, Leeds, London, Nottingham, Reading, Southampton, Wrexham

CLIENT

RENEWABLEUK CYMRU

PROJECT

STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE

FIGURE 3-6
 STRUCTURES ALONG ROUTE FROM WELSHPOOL TO SSA B (NORTH)

STATUS

FOR INFORMATION

DRAWN	CHECKED	APPROVED
AR	DH	STW
DATE 16.08.11	DATE 16.08.11	DATE 16.08.11
DRAWING SCALE 1:50000 at A1	ORIGINE DRAWING SIZE 594 x 841 - A1	
DRAWING NO:	108526-FIG 3-6	REV: P2