

NOTES

LEGEND
 --- ROUTE FROM WELSHPOOL TO NEWTOWN

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

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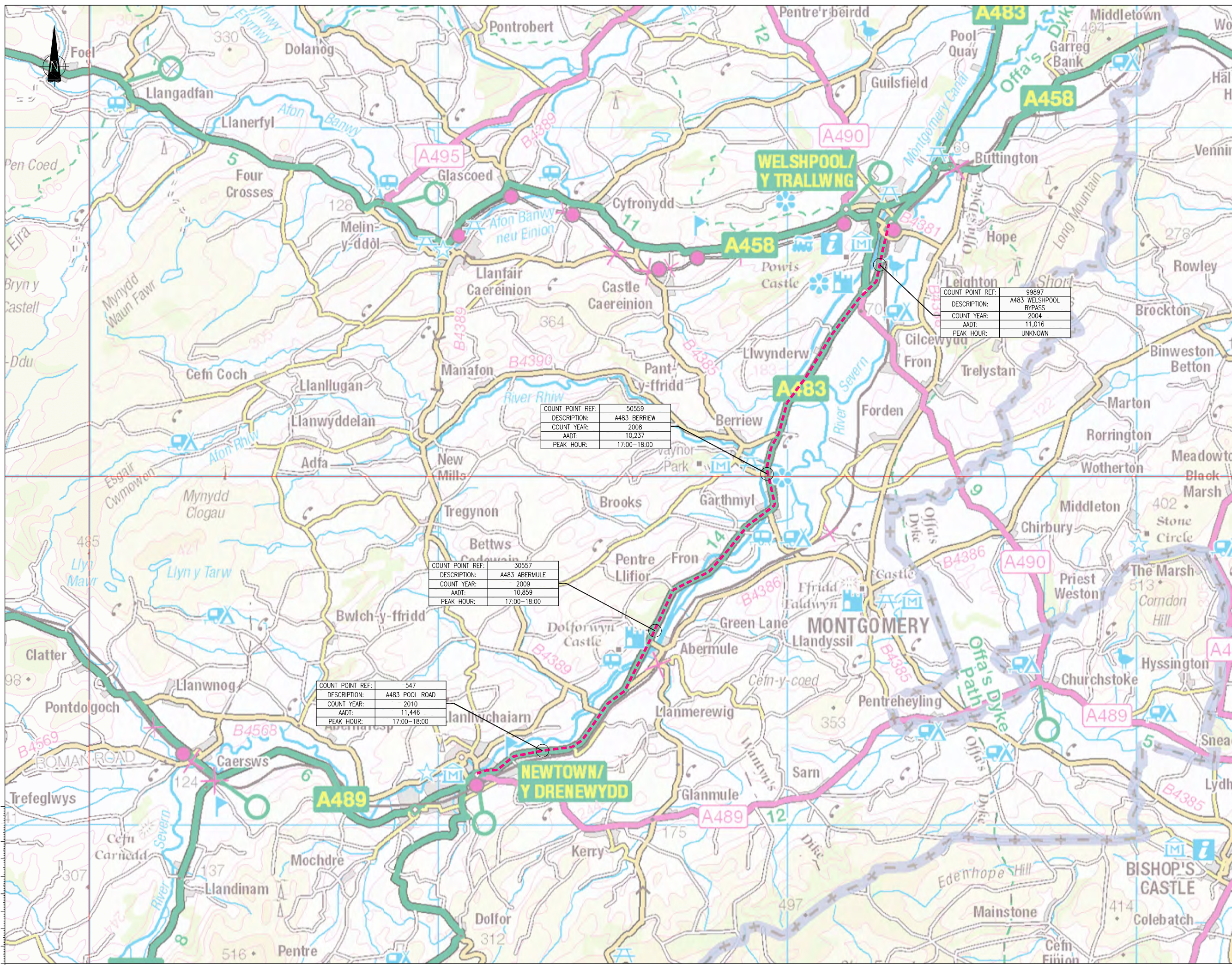
PROJECT
STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE
FIGURE 4-1 ROUTE FROM WELSHPOOL TO NEWTOWN

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

DRAWING No: **108526-FIG 4-1** REV: **P2**



COUNT POINT REF:	50559
DESCRIPTION:	A483 BERRIEW
COUNT YEAR:	2008
AADT:	10,237
PEAK HOUR:	17:00-18:00

COUNT POINT REF:	99897
DESCRIPTION:	A483 WELSHPOOL BYPASS
COUNT YEAR:	2004
AADT:	11,016
PEAK HOUR:	UNKNOWN

COUNT POINT REF:	30557
DESCRIPTION:	A483 ABERMULE
COUNT YEAR:	2009
AADT:	10,859
PEAK HOUR:	17:00-18:00

COUNT POINT REF:	547
DESCRIPTION:	A483 POOL ROAD
COUNT YEAR:	2010
AADT:	11,446
PEAK HOUR:	17:00-18:00

NOTES

LEGEND

--- ROUTE FROM WELSHPOOL TO NEWTOWN

NOTES

1. AADT = 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.
2. PEAK HOUR TAKEN FROM 12 MANUAL CLASSIFIED COUNTS FROM 07:00-19:00.
3. POWYS ATC SITES PROVIDE HOURLY DATA FOR 2008

P2	SCALES AMENDED	ACR	IFT	DLP	26.03.12
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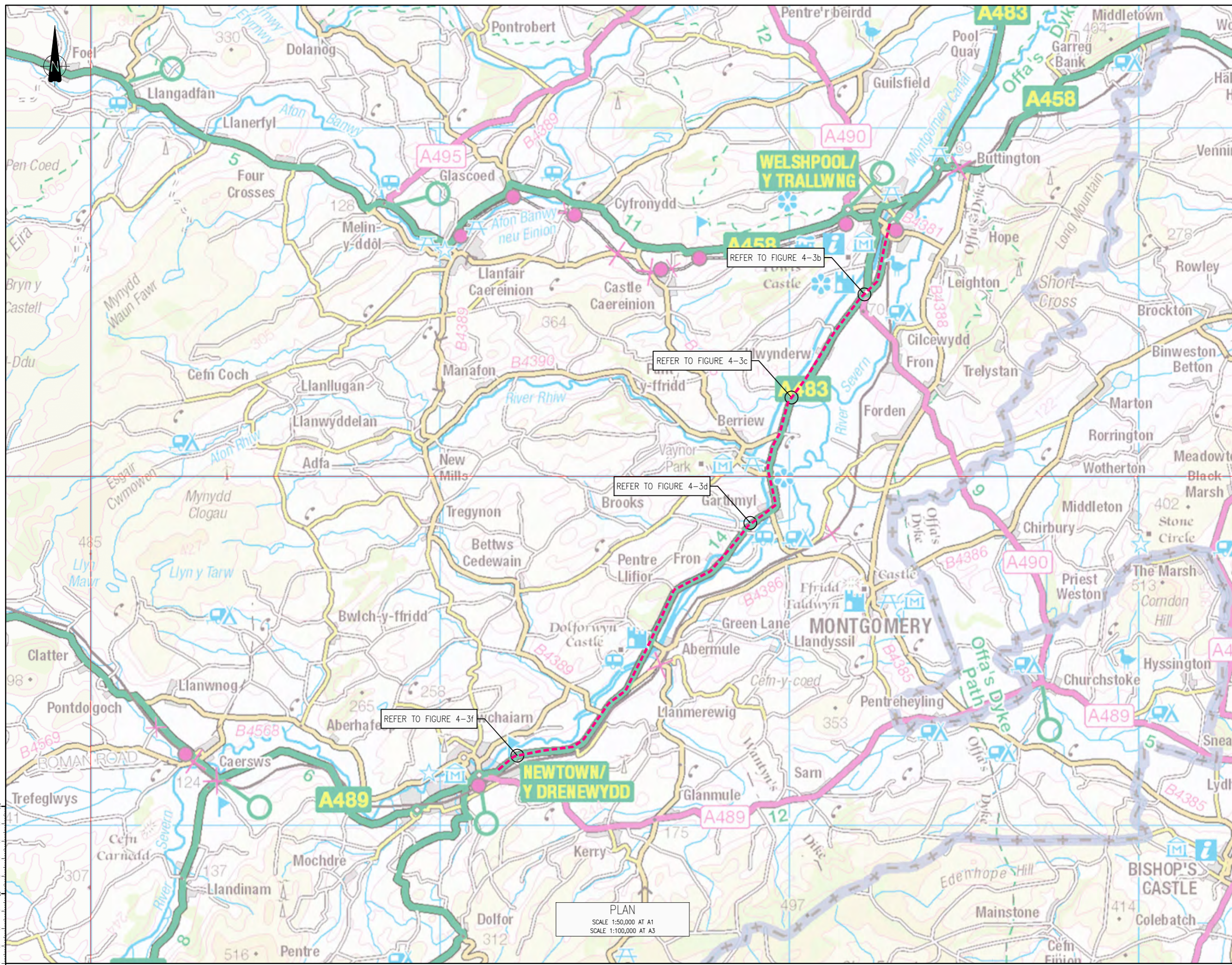
PROJECT
 STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE
 FIGURE 4-2 TRAFFIC FLOWS ALONG ROUTE FROM WELSHPOOL TO NEWTOWN

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

DRAWING No: 108526-FIG 4-2 REV: P2



NOTES

LEGEND

ROUTE FROM WELSHPOOL TO NEWTOWN

P3	PASSING PLACE 4-3a REMOVED LAYOVER AREA PROVIDED	SPL	IFT	DLP	13/08/11
P2	SCALE NOTES AMENDED	IFT	MC	DLP	20/03/11
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PROJECT: STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE: FIGURE 4-3a PASSING PLACES ALONG ROUTE FROM WELSHPOOL TO NEWTOWN

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 4-3a	P3	

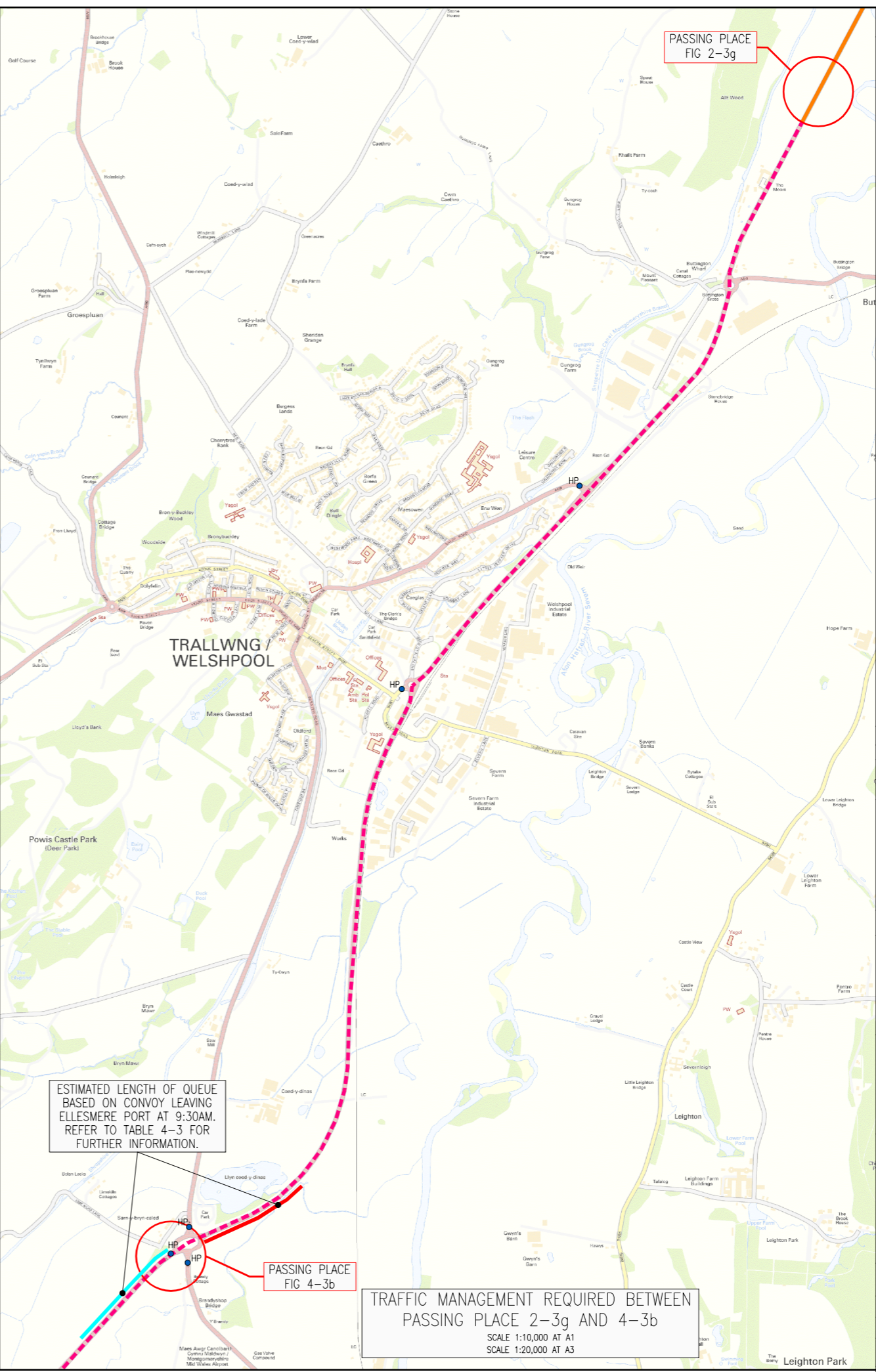


PASSING PLACE 4-3b
OFF CARRIAGEWAY PASSING PLACE
TWO WAY TRAFFIC PAST CONVOY
SCALE 1:500 AT A1
SCALE 1:1000 AT A3

FORWARD VISIBILITY IMPACTED FOR SOUTHBOUND TRAFFIC EXITING ROUNDABOUT. POLICE ESCORT NEEDED AT ALL TIMES

ESTIMATED LENGTH OF QUEUE BASED ON CONVOY LEAVING ELLESMERE PORT AT 9:30AM. REFER TO TABLE 4-3 FOR FURTHER INFORMATION.

TRAFFIC MANAGEMENT REQUIRED BETWEEN PASSING PLACE 2-3g AND 4-3b
SCALE 1:10,000 AT A1
SCALE 1:20,000 AT A3



NOTES

LEGEND

- ROUTE FROM WELSHPOOL TO NEWTOWN
- 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	NOTES AMENDED	SB	IFT	DLP	27/04/11
P2	ADDITIONAL INFORMATION ADDED FOR PASSING PLACES FOLLOWING STAKEHOLDERS REVIEW	PSN	RS	DLP	20/03/11
REV	AMENDMENTS	BY	CHKD	APRD	DATE

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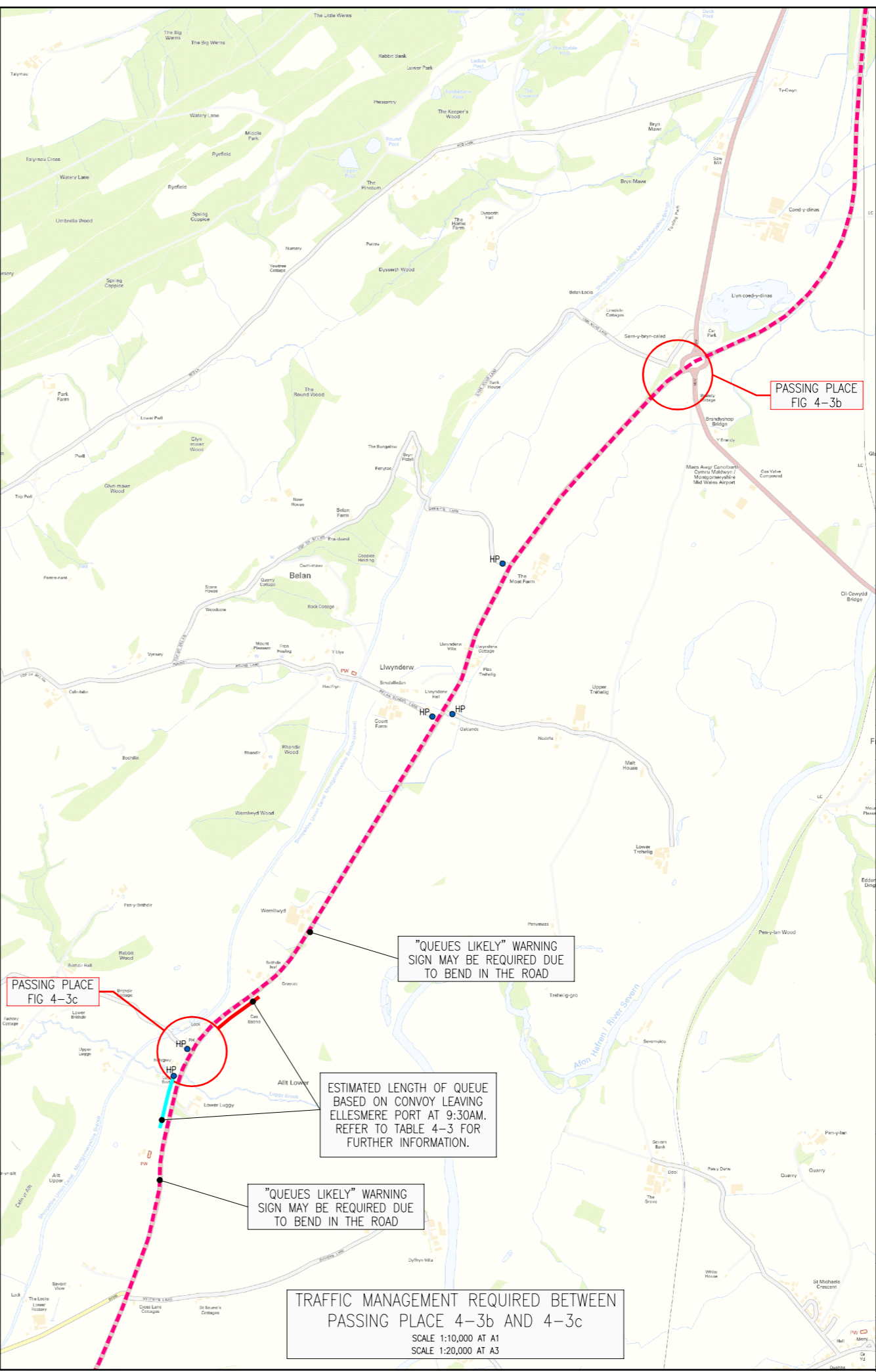
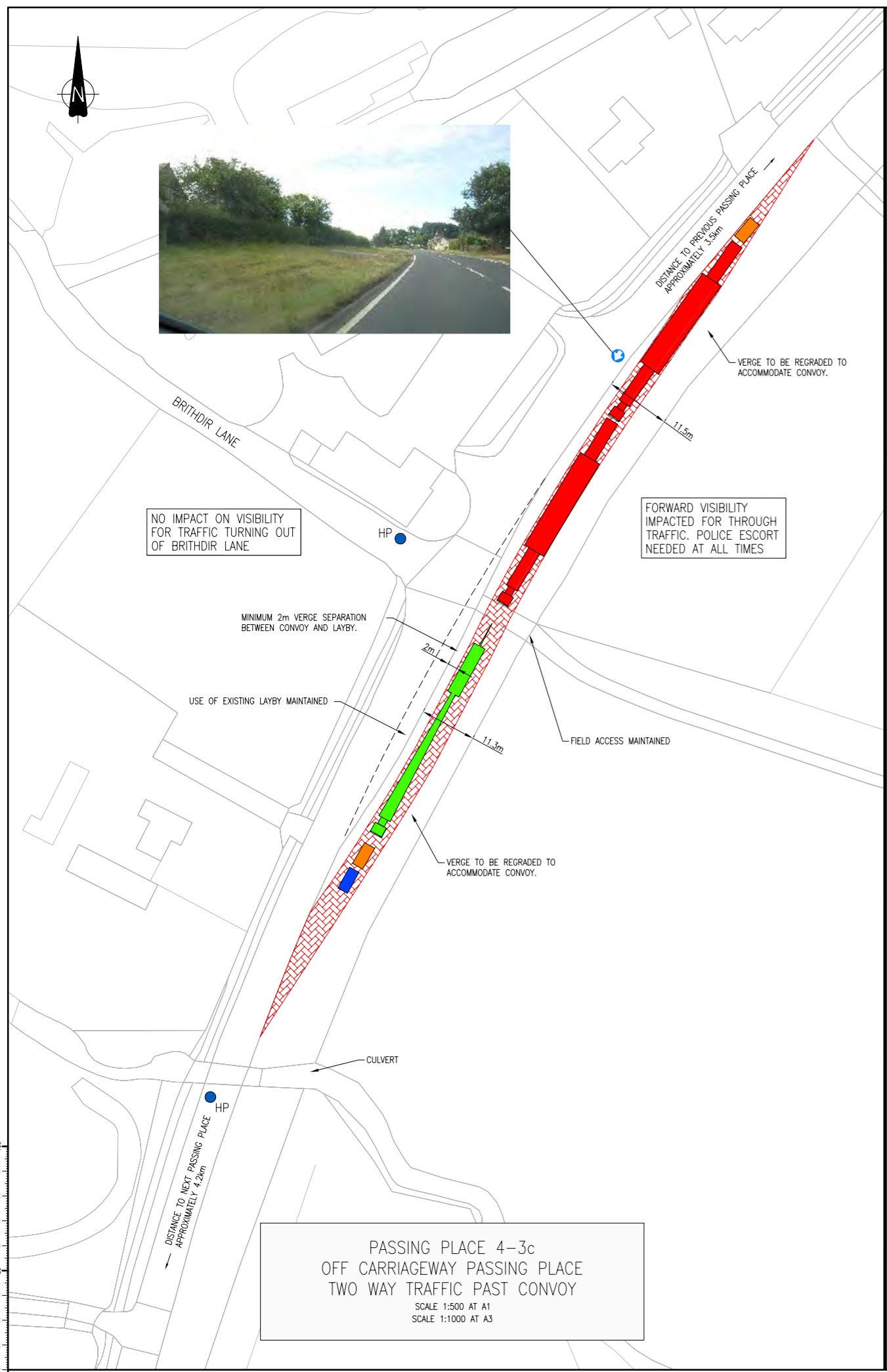
PROJECT
STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE
**FIGURE 4-3b
PASSING PLACE A483 / A490
ROUNDABOUT**

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 4-3b** REV **P4**



NOTES

LEGEND

- ROUTE FROM WELSHPOOL TO NEWTOWN
- 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.
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- ONSITE MEASUREMENTS TAKEN AT LOCATIONS OF PROPOSED PASSING PLACES.

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

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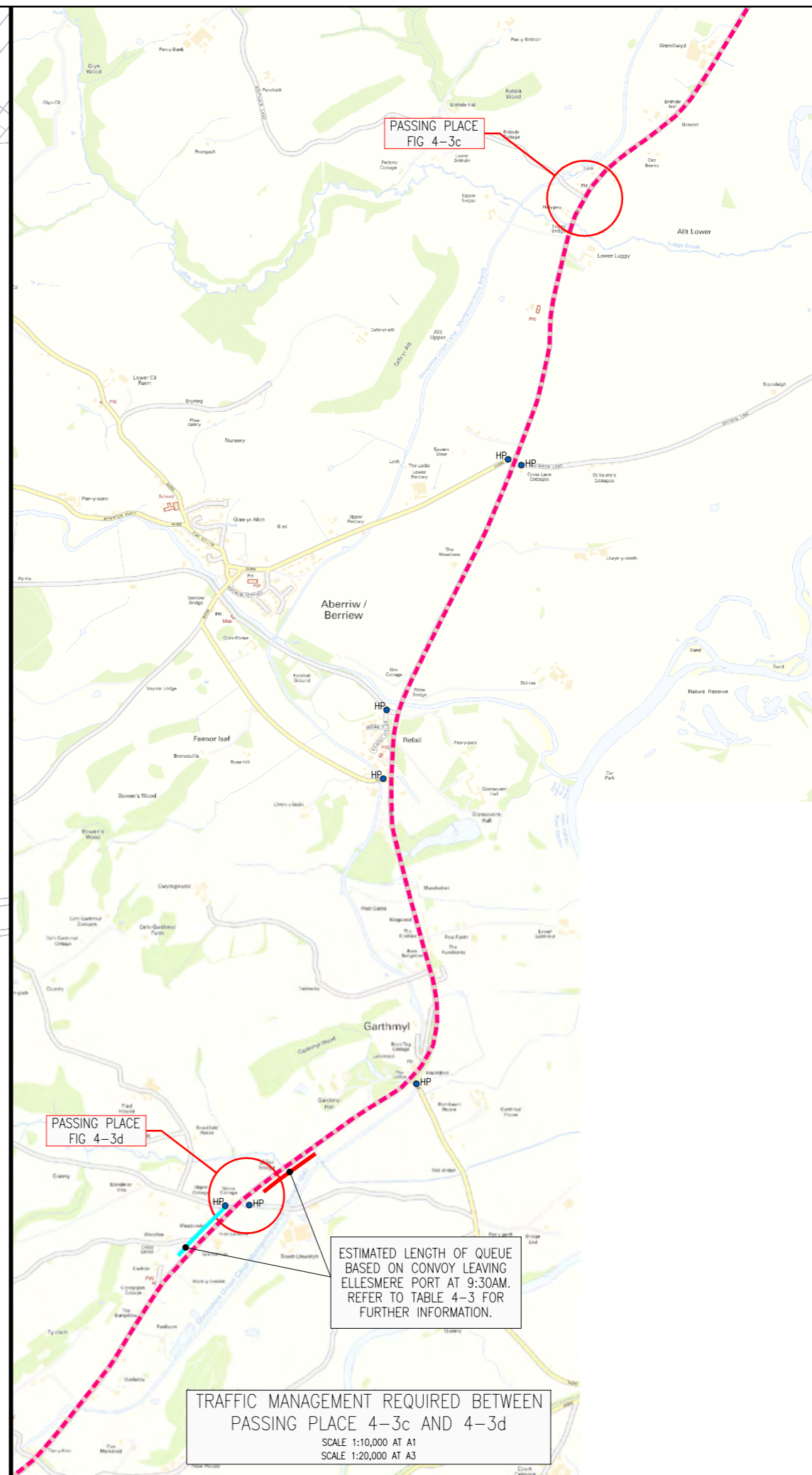
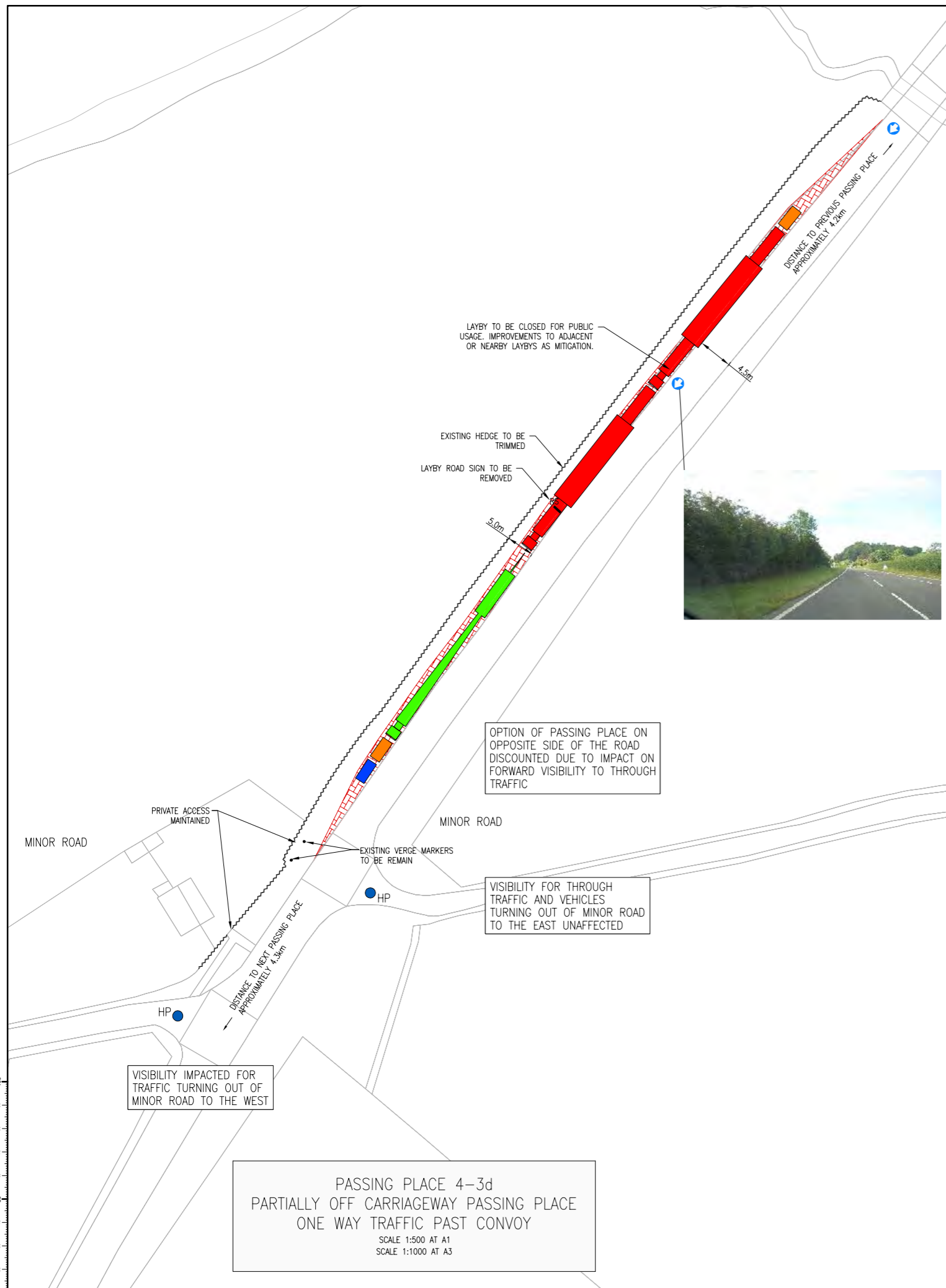
PROJECT: **STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS**

TITLE: **FIGURE 4-3c PASSING PLACE LUGGY BROOK**

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 4-3c** REV: **P5**



NOTES

LEGEND

- ROUTE FROM WELSHPOOL TO NEWTOWN
- 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.
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- ONSITE MEASUREMENTS TAKEN AT LOCATIONS OF PROPOSED PASSING PLACES.

P5	VIEWPORT TITLE AMENDED	SB	IFT	LC	15/08/11
P4	PASSING PLACE INFORMATION AMENDED FOLLOWING STAKEHOLDER LIAISON	SPL	IFT	DLP	09/08/11
P3	HARDENED VERGE EXTENDED. NOTES AMENDED	SB	IFT	DLP	27/04/11
P2	ADDITIONAL INFORMATION ADDED FOR PASSING PLACES FOLLOWING STAKEHOLDERS REVIEW	PSN	RS	DLP	20/03/11
REV	AMENDMENTS	BY	CHKD	APRD	DATE

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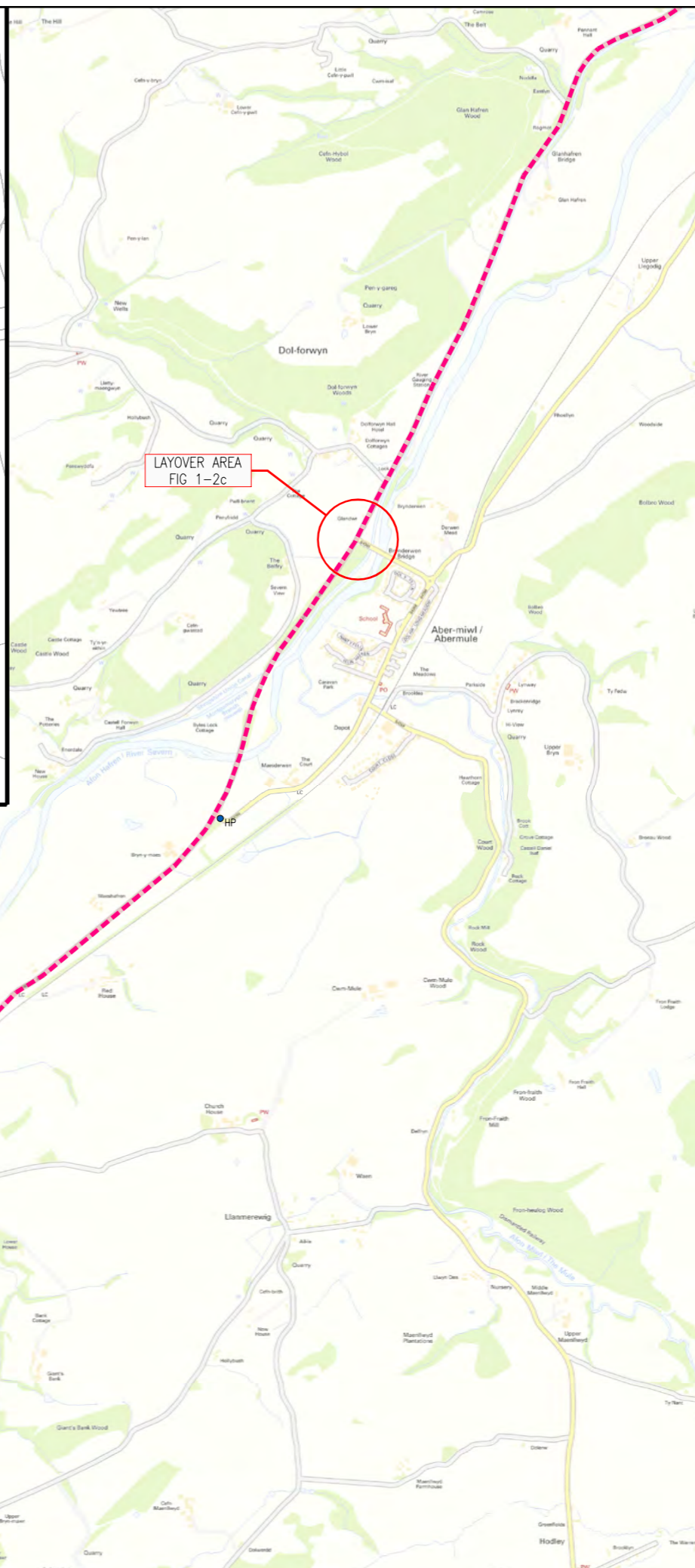
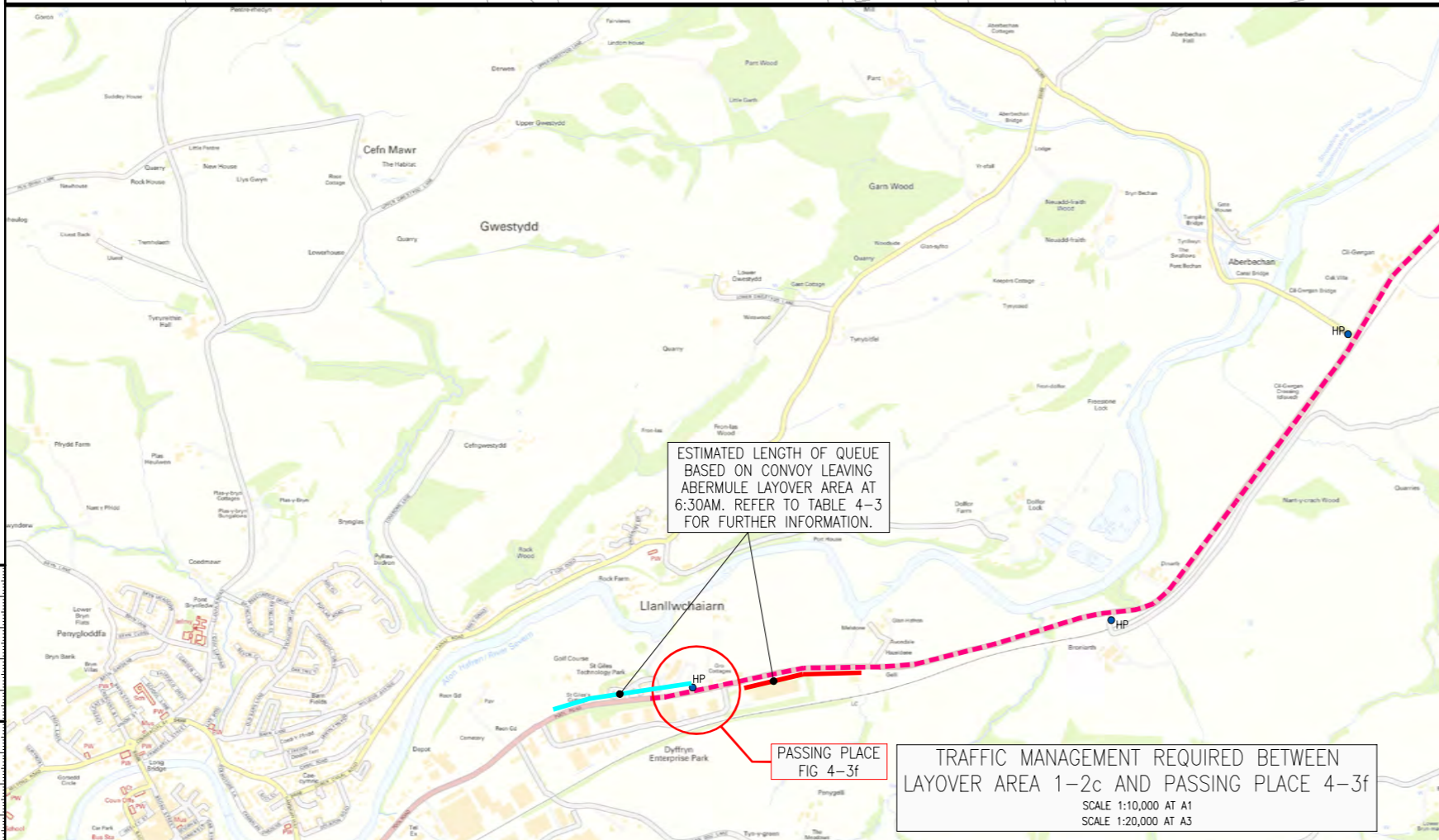
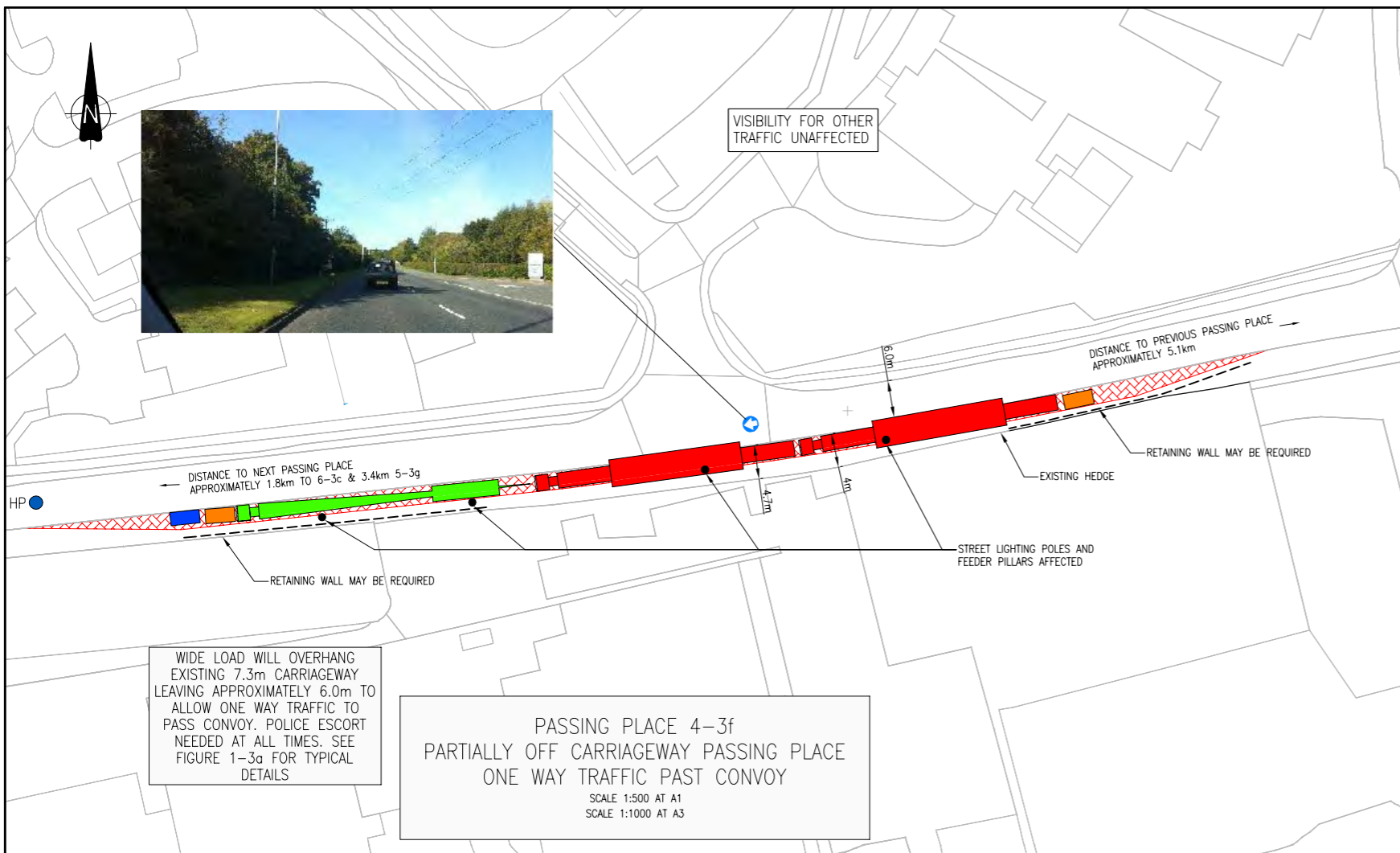
TITLE
**FIGURE 4-3d
PASSING PLACE LLIFIOR BRIDGE**

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 4-3d

REV
P5



NOTES

LEGEND

- 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.
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- 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 TITLE AMENDED	SB	IFT	LC	15/08/11
P4	PASSING PLACE INFORMATION AMENDED FOLLOWING STAKEHOLDER LIAISON	SPL	IFT	DLP	09/08/11
P3	NOTES AMENDED	SB	IFT	DLP	27/04/11
P2	ADDITIONAL INFORMATION ADDED FOR PASSING PLACES FOLLOWING STAKEHOLDERS REVIEW	PSN	RS	DLP	20/03/11
REV	AMENDMENTS	BY	CHKD	APRD	DATE

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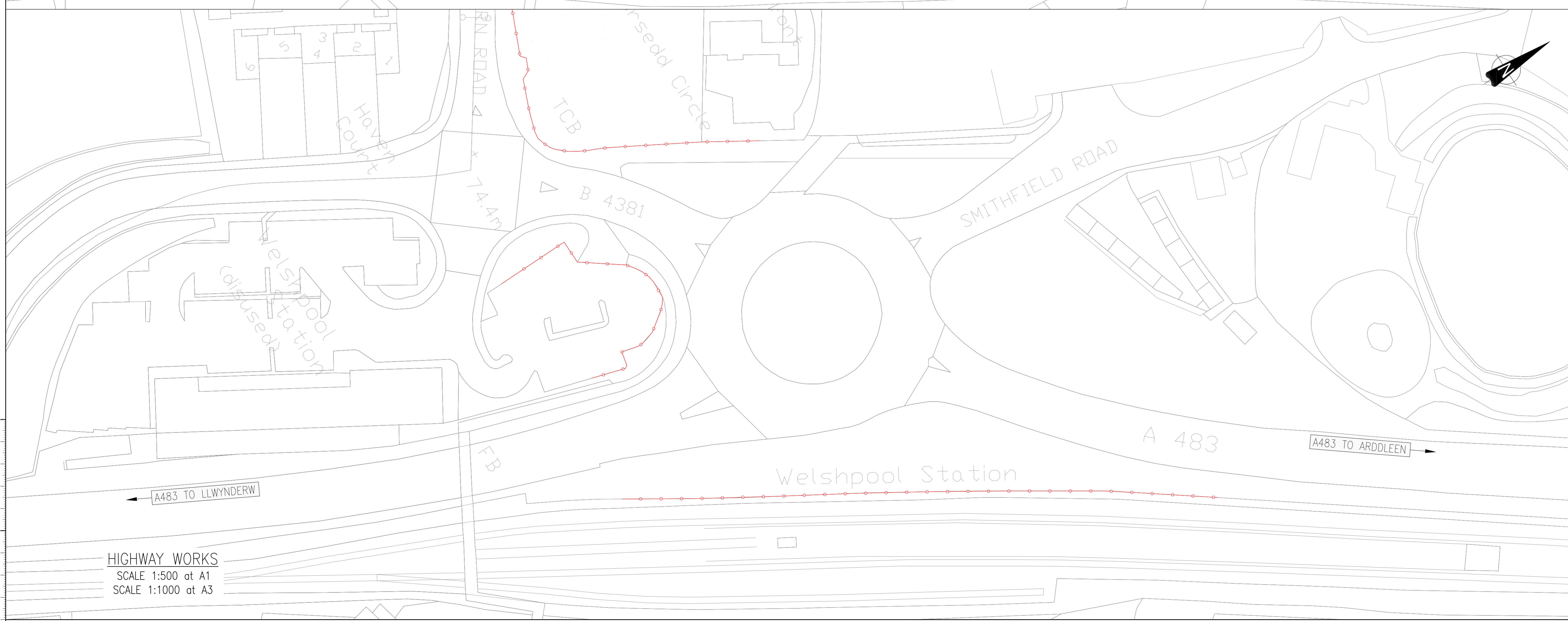
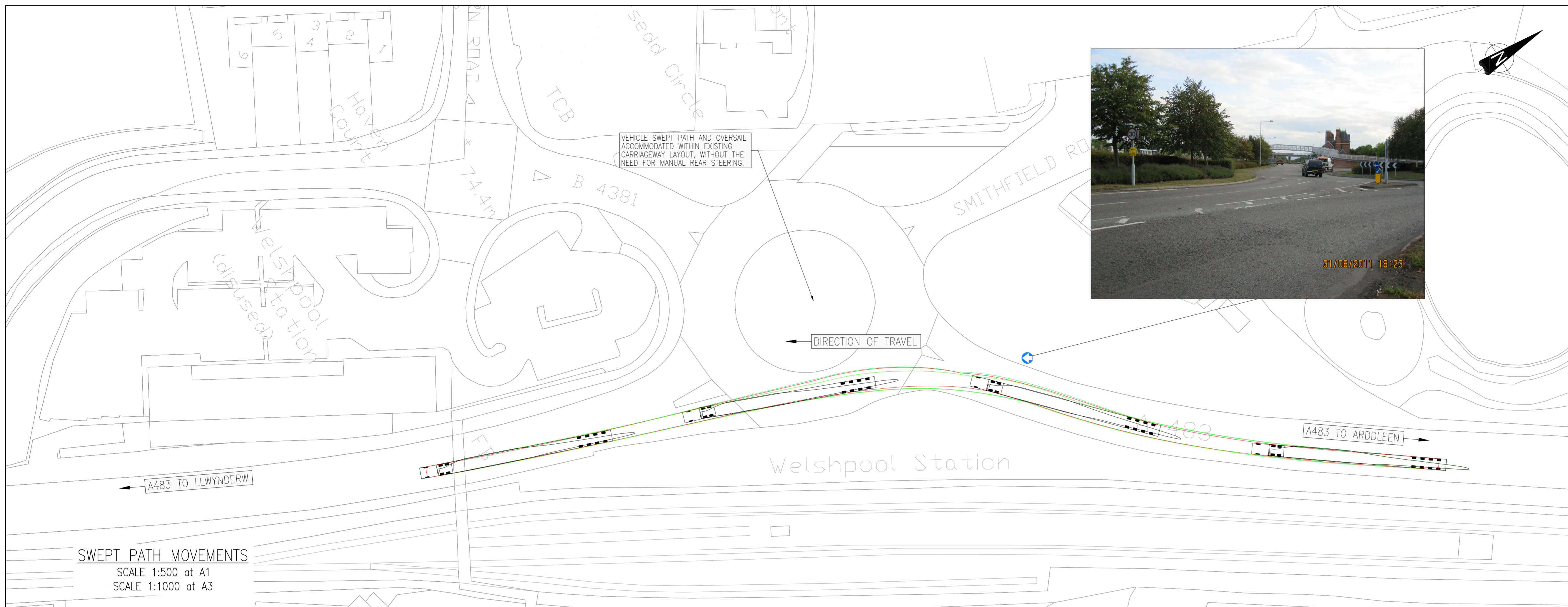
PROJECT: STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE: FIGURE 4-3f PASSING PLACE NEWTOWN EAST

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 4-3f REV: P5



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 1-4c 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	2003/12
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PROJECT

STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE

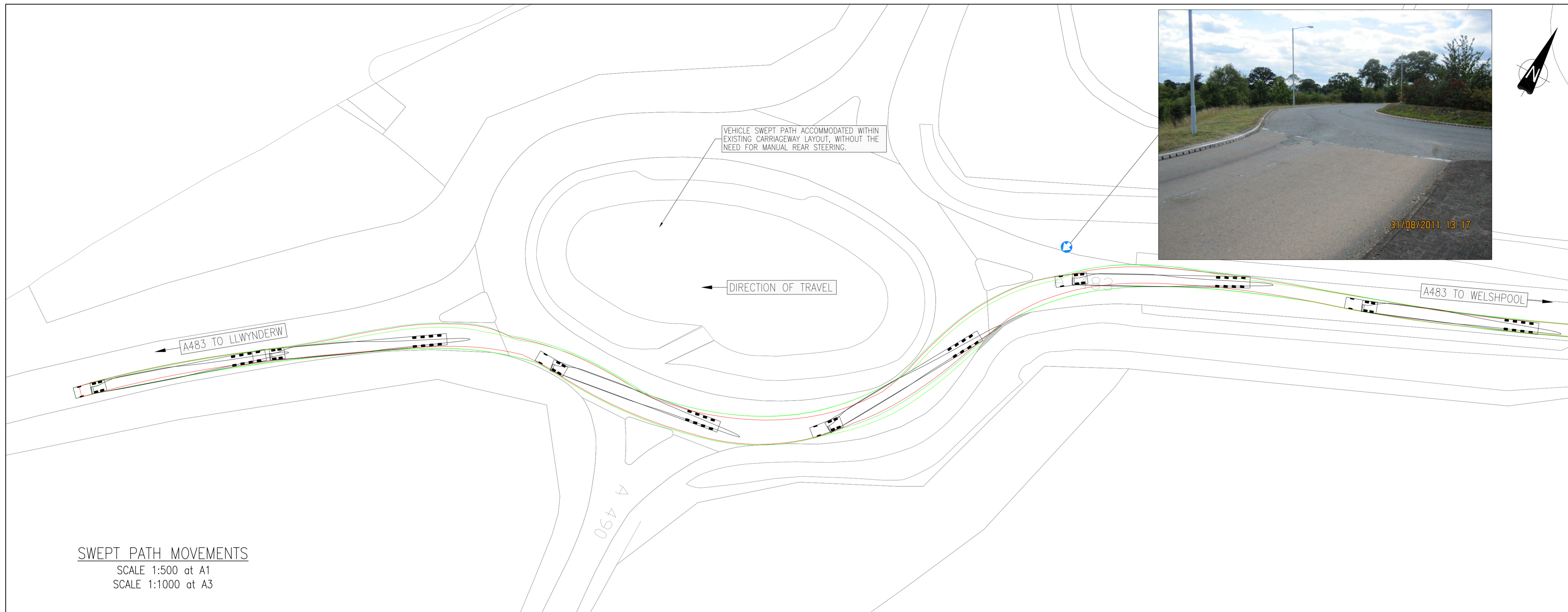
**FIGURE 4-4b
SWEEP PATH ANALYSIS
WELSHPOOL BYPASS
ROUNDBABOUT**

STATUS

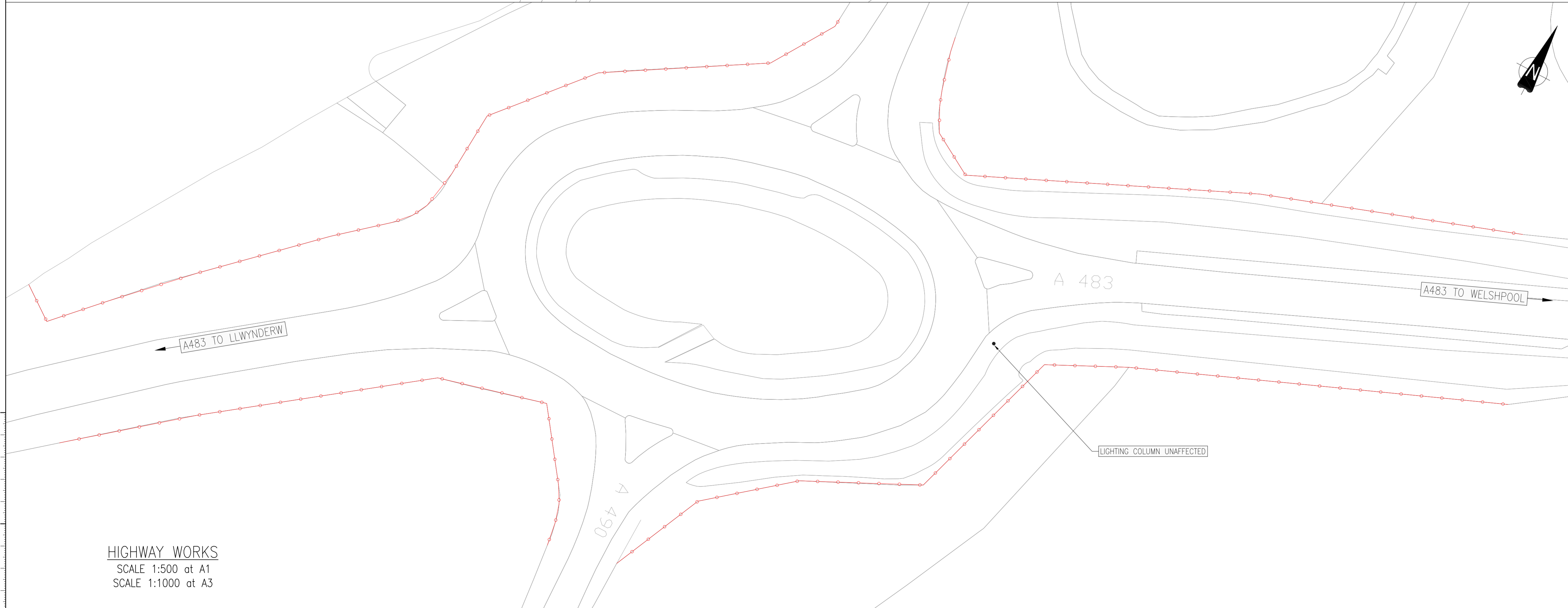
FOR INFORMATION

DRAWN MC	CHECKED IFT	APPROVED 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 4-4b** 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
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- 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 1-4c 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.

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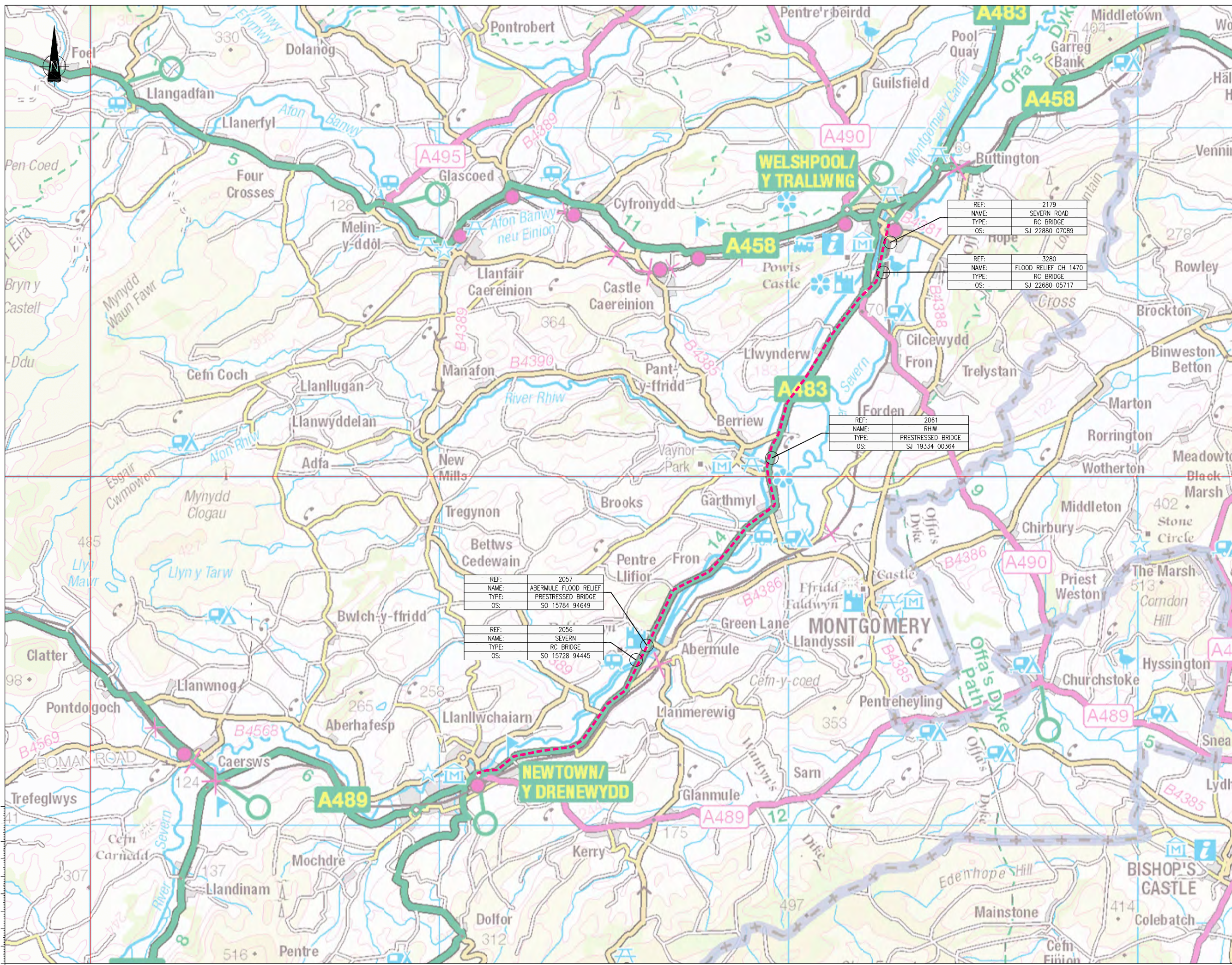
PROJECT
STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE
**FIGURE 4-4c
 SWEEP PATH ANALYSIS
 WELSHPOOL BYPASS SOUTH**

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 4-4c REV. **P2**



NOTES

LEGEND

ROUTE FROM WELSHPOOL TO NEWTOWN

NOTES

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

REF:	2179
NAME:	SEVERN ROAD
TYPE:	RC BRIDGE
OS:	SJ 22880 07089

REF:	3280
NAME:	FLOOD RELIEF CH 1470
TYPE:	RC BRIDGE
OS:	SJ 22880 05717

REF:	2061
NAME:	RHW
TYPE:	PRESTRESSED BRIDGE
OS:	SJ 19334 00364

REF:	2057
NAME:	ABERMULE FLOOD RELIEF
TYPE:	PRESTRESSED BRIDGE
OS:	SO 15784 94649

REF:	2056
NAME:	SEVERN
TYPE:	RC BRIDGE
OS:	SO 15728 94445

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

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STRATEGIC TRAFFIC MANAGEMENT PLAN FOR MID WALES WIND FARMS

TITLE

FIGURE 4-6
 STRUCTURES ALONG ROUTE FROM WELSHPOOL TO NEWTOWN

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	
1:50000 at A1	594 x 841 - A1	
1:100000 at A3		

DRAWING No. 108526-FIG 4-6

REV P2