MSP MOMENTA

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DRONE PROGRESS SURVEY GUIDE

PROJECT
CARDIFF ROAD FAS
SURVEY NO. 3
03.09.26

SURVEY AREA	MISSION TYPE	EST. FLIGHT TIME	BEST TIME TO SHOOT
ABERDARE	PROGRESS SURVEY	15 – 20 MINS	EARLY MORNING / GOLDEN HOUR

1. SURVEY OVERVIEW

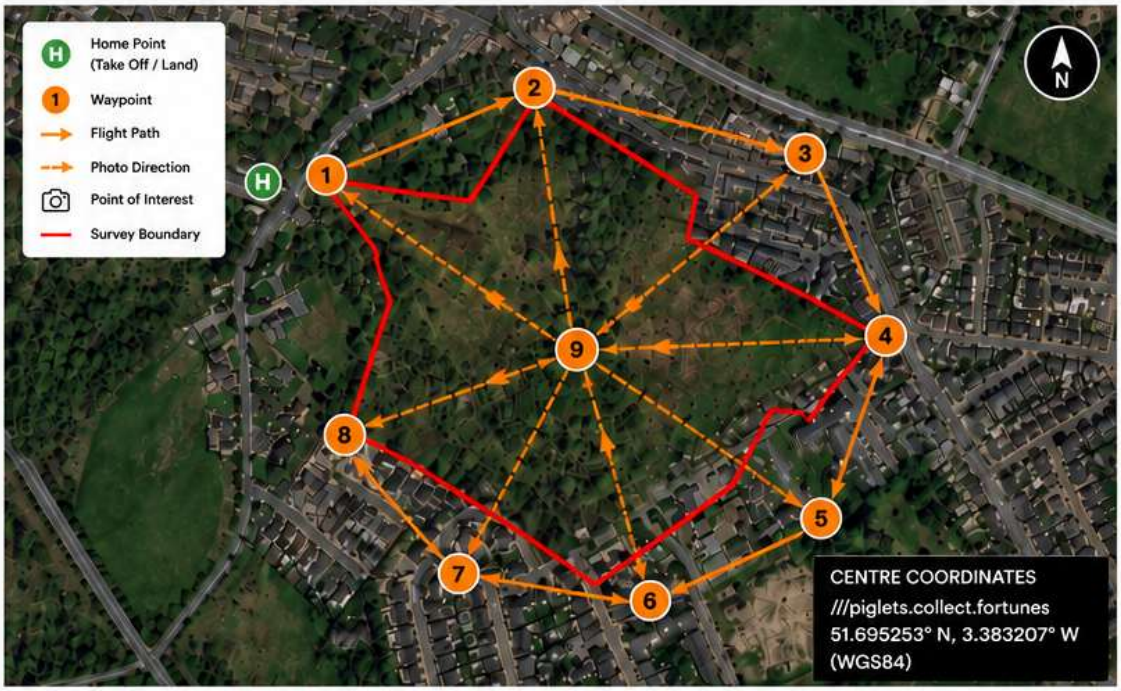
Progress survey of the development area highlighted in red.

Fly the mission clockwise following the waypoint route. All photographs are taken with the camera angled towards the centre of the survey area for consistent comparison over time.

One vertical (nadir) shot captured from the centre for an overall plan view.

KEY FEATURES

- Consistent waypoint locations
- Inward facing oblique photos
- Central nadir overview
- Ideal for monthly reporting
- Captures full area efficiently

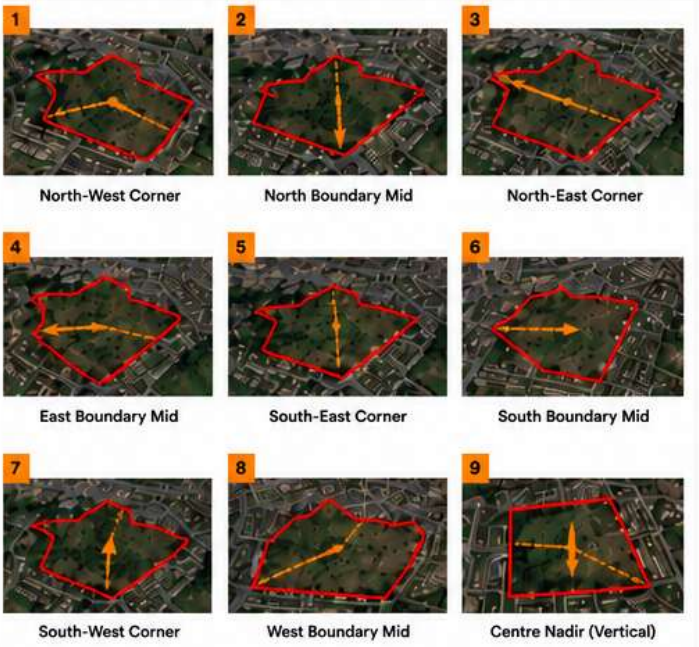


2. WAYPOINT PLAN (DJI MINI 5 PRO)

#	WAYPOINT	HEIGHT (AGL)	SPEED	GIMBAL ANGLE	HEADING	CAMERA ACTION & NOTES
1	North-West Corner	55 m	2.0 m/s	-45°	Towards Centre (9)	Establishing oblique shot of NW boundary.
2	North Boundary Mid	55 m	2.0 m/s	-45°	Towards Centre (9)	Capture northern boundary & rooftops.
3	North-East Corner	55 m	2.0 m/s	-45°	Towards Centre (9)	Oblique overview of NE boundary.
4	East Boundary Mid	55 m	2.0 m/s	-45°	Towards Centre (9)	Capture easterm edge of the site.
5	South-East Corner	55 m	2.0 m/s	-45°	Towards Centre (9)	Oblique overview of SE boundary.
6	South Boundary Mid	55 m	2.0 m/s	-45°	Towards Centre (9)	Capture southern boundary & context.
7	South-West Corner	55 m	2.0 m/s	-45°	Towards Centre (9)	Oblique overview of SW boundary.
8	West Boundary Mid	55 m	2.0 m/s	-45°	Towards Centre (9)	Oblique western edge of the site.
9	Centre Nadir	65 m	2.0 m/s	-90°	Nadir	Vertical overview of entire survey area.

- All heights are Above Ground Level (AGL). Adjust as required for site obstacles and wind conditions.

3. CAMERA STORYBOARD (INWARD FACING)



4. CAMERA SETTINGS (DJI MINI 5 PRO)

RESOLUTION / FPS	4K 50fps
COLOUR PROFILE	D-Log M
SHUTTER SPEED	1/100 (Use ND filter)
ISO	100 – 400
WHITE BALANCE	5600K (Daylight)
PICTURE STYLE	Natural
ND FILTER	ND16 (bright day) ND32 (very bright)
FOCUS	Auto (AF) or Manual (locked on buildings)
GIMBAL MODE	Follow Mode



5. SAFETY CONSIDERATIONS

- Maintain visual line of sight at all times.
- Check for active play before launching.
- Avoid flying directly over people or public footpaths.
- Watch for tall trees, poles and antennas.
- Observe wind direction and conditions.
- Emergency landing areas: Open field / road verge (not on roads or properties).

6. EDITING & POST PRODUCTION NOTES

EDIT ORDER (SUGGESTED)

1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9

TRANSITIONS

Use subtle cuts or speed ramps between shots.
Allow 2-3 seconds on the central nadir shot.

DELIVERABLES

High resolution stills for reporting.
Optional short cinematic overview video.

COLOUR GRADING

Enhance clarity and contrast for true progress representation. Keep colours natural.

7. SHOT SUMMARY

- Total Shots: 9
- Flight Time: 15 – 20 mins
- Style: Consistent, documentary, inward facing oblique + nadir
- Purpose: Construction progress monitoring & reporting

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AERIAL • CONSTRUCTION
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DRONE SURVEY SAFETY & OPERATIONS MANUAL

CARDIFF ROAD FAS

ABERDARE

MONTHLY PROGRESS PHOTOGRAPHY

DOCUMENT REF:
MSP-CRF-DRN-02

REVISION:
02

DATE:
03.09.26

PREPARED BY:
MATT SPEAR

ROLE:
DRONE OPERATOR /

INSURANCE

PUBLIC LIABILITY INSURANCE

£5 MILLION

(£5,000,000)

Policy held with specialist drone insurance provider.

GET IN TOUCH

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Bridgend, South Wales

PROFESSIONAL | SAFE | CREATIVE | IMPACTFUL

PROJECT SUMMARY

PROJECT:	Cardiff Road FAS
CLIENT:	CentreGreat Limited
MISSION TYPE:	Construction Progress Survey
FREQUENCY:	Monthly
AREA SURVEYED:	As per flight plan boundary
AIM:	Provide a consistent visual record of site progress for monthly reporting and comparison over time.



MISSION STATEMENT

To conduct a safe, legal and professional drone survey of Cardiff Road FAS, capturing consistent repeatable imagery using the agreed waypoint mission. The survey comprises eight inward-facing oblique photographs and one central nadir image for month-on-month progress reporting.

DATE: 03.09.26

AIRCRAFT: DJI MINI 5 PRO



KEY FEATURES

- <250 g - No operator ID label required (C0 class)
- Omnidirectional obstacle sensing
- Advanced RTH (Return to Home)
- Waypoint missions & POI
- Lightweight & highly portable
- Excellent image quality for surveys

OPERATIONAL CONTROLS

AIRCRAFT	DJI Mini 5 Pro	**MISSION**	Repeatable waypoint progress survey
OBLIQUE IMAGES	8 No. inward facing	**NADIR IMAGE**	1 No. central vertical
OBLIQUE HEIGHT	55 m AGL	**NADIR HEIGHT**	65 m AGL
IMAGE FORMAT	RAW + JPEG	**WHITE BALANCE**	Fixed 5600K
VLOS	Maintained at all times	**MAX HEIGHT**	120 m from closest surface

RISK ASSESSMENT SUMMARY

HAZARD	POTENTIAL CONSEQUENCE	INITIAL RISK	CONTROL MEASURES	RESIDUAL
LOSS OF AIRCRAFT CONTROL	Fly-away, crash, injury or damage	HIGH	Pre-flight checks; RTH verified; VLOS maintained; pilot ready to intervene.	LOW
INJURY TO PEOPLE / PUBLIC	Injury from aircraft or debris	HIGH	Controlled launch area; avoid uninvolved people; pause if operating area is entered.	LOW
PLANT / CRANES / STRUCTURES	Collision or property damage	MEDIUM	Dynamic site assessment; confirm plant/crane activity; maintain safe clearance.	LOW
ADVERSE WEATHER	Loss of control / visibility	MEDIUM	Check forecast and actual conditions; no flight in rain or excessive wind.	LOW
BATTERY / GNSS / LINK	Forced landing or navigation loss	MEDIUM	Serviceable batteries; monitor reserve; verify GNSS/link; land if degraded.	LOW
PRIVACY / DATA	Complaint or data misuse	LOW	Capture project area only; avoid unnecessary neighbouring property; secure imagery.	LOW

STANDARD OPERATING PROCEDURE

- ✓ Complete pre-flight checklist.
- ✓ Assess site and surroundings.
- ✓ Check airspace / NOTAMs.
- ✓ Notify site manager.
- ✓ Fly agreed waypoint mission.
- ✓ Review imagery before leaving.

EMERGENCY PROCEDURES

LOSS OF SIGNAL
RTH where safe; regain control and land.

MAJOR HAZARD:
Hover/assess or terminate flight safely.

INCIDENT:
Secure area and notify site manager.

STANDARD CAMERA SETTINGS

FORMAT	RAW + JPEG
RATIO	4:3
ISO	100-400
WB	5600K
OBLIQUE	55 m / -55°
NADIR	65 m / -90°

DECLARATION

I confirm this survey will be conducted in accordance with current UK CAA requirements, the flight plan and this RAMS. A dynamic risk assessment will be completed before flight.

Matt Spear
Drone Operator - MSP Momenta
Date: 03.09.26

DRONE PROGRESS SURVEY GUIDE
WAYPOINT PHOTOGRAPHS

PROJECT
CARDIFF ROAD FAS
03.09.26

1 WP1 – North-West Corner

Location: North-West Corner
Direction: South East
Height: 55m (AGL)
Distance: 60m
Purpose: Capture overall progress and site context
Image: High oblique
Notes: Include surrounding context and site access



2 WP2 – North Boundary Mid

Location: North Boundary (Mid)
Direction: South West
Height: 55m (AGL)
Distance: 60m
Purpose: Capture overall progress and site context
Image: High oblique
Notes: Include surrounding context and site access



3 WP3 – North-East Corner

Location: North-East Corner
Direction: South West
Height: 55m (AGL)
Distance: 60m
Purpose: Capture overall progress and site context
Image: High oblique
Notes: Include surrounding context and site access



4 WP4 – East Boundary Mid

Location:	East Boundary (Mid)
Direction:	South West
Height:	55m (AGL)
Distance:	60m
Purpose:	Capture overall progress and site context
Image:	High oblique
Notes:	Include surrounding context and site access



5 WP5 – South East Corner

Location:	South East Corner
Direction:	North West
Height:	55m (AGL)
Distance:	60m
Purpose:	Capture overall progress and site context
Image:	High oblique
Notes:	Include surrounding context and site access



6 WP6 – South Boundary Mid

Location:	South Boundary (Mid)
Direction:	North
Height:	55m (AGL)
Distance:	60m
Purpose:	Capture overall progress and site context
Image:	High oblique
Notes:	Include surrounding context and site access



7 WP7 – South West Corner

Location:	South West Corner
Direction:	North East
Height:	55m (AGL)
Distance:	60m
Purpose:	Capture overall progress and site context
Image:	High oblique
Notes:	Include surrounding context and site access



8 WP8 – West Boundary Mid

Location:	West Boundary (Mid)
Direction:	East
Height:	55m (AGL)
Distance:	60m
Purpose:	Capture overall progress and site context
Image:	High oblique
Notes:	Include surrounding context and site access



9 WP9 – Centre Nadir

Location:	Centre of Site
Direction:	Nadir (Down)
Height:	55m (AGL)
Distance:	Directly Above
Purpose:	Capture vertical overview of site layout and works
Image:	Nadir (Vertical)
Notes:	Ensure full site coverage within frame



DRONE PROGRESS SURVEY GUIDE

GENERAL CONSTRUCTION PHOTOGRAPHS

PROJECT
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