



Grade Control & Survey Accuracy Checklist

Pre-Construction Planning & Setup

Verification of planning documents, coordinate system establishment, and equipment calibration.

Review and Verify Project Design Drawings

Write something...

Coordinate System Used

- ☐ NAD83
- ☐ NAD27
- ☐ State Plane
- ☐ Custom


Datum Elevation (NGVD29/NAVD88)

Enter a number...

Project Control Point Description (Original Source)

Write something...

Upload Project Design Drawings & Specifications

 Upload File

Date of Design Review Completion

Enter date...

Accuracy Tolerance (Horizontal)

Enter a number...

Accuracy Tolerance (Vertical)

Enter a number...

Initial Stakeout & Monumentation

Accuracy of initial stakeout points and the stability/protection of reference monuments.

Monument Stability Test (Settlement/Movement)

Enter a number...

Horizontal Accuracy (Stakeout Points) (\pm meters/feet)

Enter a number...

Vertical Accuracy (Stakeout Points) (\pm meters/feet)

Enter a number...

Monument Protection Method

- ☐ Temporary Cover
- ☐ Permanent Concrete Base
- ☐ Survey Nail & Tag
- ☐ Other (Specify)

Details of 'Other' Monument Protection (if selected)

Write something...

Stakeout Point Visibility

- ☐ Fully Visible
- ☐ Partially Obstructed
- ☐ Not Visible (Requires Temporary Markers)

Notes on Stakeout Point Visibility & Mitigation

Write something...

Date of Stakeout Verification


Enter date...

Coordinates of Monument 1

 [Set My Current Location](#)



Photo Documentation of Monumentation

 Upload File

Grid & Benchmark Verification

Validation of the established grid network and benchmark elevations.

Grid Coordinate Accuracy (X)

Enter a number...

Grid Coordinate Accuracy (Y)

Enter a number...

Grid Coordinate Accuracy (Z)

Enter a number...

Benchmark Elevation Accuracy (Datum)

Enter a number...

Verification Method

- ☐ Traverse Closure
- ☐ Loop Closure
- ☐ Comparison with Existing Control
- ☐ Independent Leveling

Closure Error (Total)

Enter a number...

Closure Error (X)

Enter a number...

Closure Error (Y)

Enter a number...

Closure Error (Z)

Enter a number...

Date of Verification

Enter date...

Earthwork Progress Monitoring

Regular checks of cut/fill volumes and slope conformance.

Cut/Fill Volume (CY)

Enter a number...

Design Cut/Fill Volume (CY)

Enter a number...

Actual Cut/Fill Tolerance (CY)

Enter a number...

Slope Conformance - Top

- ☐ Within Tolerance
- ☐ Outside Tolerance
- ☐ Not Applicable

Slope Conformance - Bottom

- ☐ Within Tolerance
- ☐ Outside Tolerance
- ☐ Not Applicable

Observations/Notes on Earthwork Progress

Write something...

Date of Earthwork Check

Enter date...

Location of Earthwork Check

 [Set My Current Location](#)



Concrete Placement & Formwork

Verification of concrete elevations and formwork accuracy.

Concrete Elevation Check - Top of Slab (Elevation)

Enter a number...

Concrete Elevation Check - Bottom of Slab (Elevation)

Enter a number...

Formwork Slope Deviation (Degrees/Percent)

Enter a number...

Formwork Alignment Verified?

☐ Yes

☐ No

☐ N/A

Comments/Observations on Formwork Accuracy

Write something...

Grade Beams Verified?

☐ Yes

☐ No

☐ N/A

Concrete Cover Verification (mm/inches)

Enter a number...

Details of any formwork adjustments made (if applicable)

Write something...

Pavement & Sub-Base Control

Checking pavement elevations, slopes, and compaction levels.

Sub-Base Compaction Level (%)

Enter a number...

Pavement Elevation Variance (mm)

Enter a number...

Pavement Slope Deviation (degrees)

Enter a number...

Pavement Type

- ☐ Asphalt
- ☐ Concrete
- ☐ Gravel

Compaction Testing Methods Used

- ☐ Nuclear
- ☐ Sand Cone
- ☐ Plate Load

Date of Pavement Placement

Observations/Comments Regarding Pavement Control

GPS Coordinates of Control Point



As-Built Surveying

Documentation of final elevations and locations of constructed elements.

As-Built Survey Completion Date

Surveyor Comments & Notes

Write something...

Total Number of Points Surveyed

Enter a number...

Reference Location for As-Built Data

 [Set My Current Location](#)



Raw Survey Data File (e.g., .csv, .las)

 Upload File

Elevation of Benchmark A (As-Built)

Enter a number...

Elevation of Benchmark B (As-Built)

Enter a number...

Method of As-Built Survey

- ☐ Total Station
- ☐ GPS/GNSS
- ☐ Laser Scanning
- ☐ Other (Specify in long text)

Specific Deviations from Design (if any)

Write something...

Equipment Calibration & Maintenance

Ensuring survey equipment is properly calibrated and maintained.

Total Station Last Calibration Date

Enter date...

Total Station Calibration Interval (Months)

Enter a number...

Level Last Calibration Date

Enter date...

Level Calibration Interval (Months)

Enter a number...

GPS/GNSS Receiver Firmware Version

- ☐ Current
- ☐ Outdated


Data Collector Battery Condition

- ☐ Good
- ☐ Fair
- ☐ Poor

Notes on Equipment Condition or Recent Maintenance

Write something...

Calibration Certificates (Total Station)

 Upload File

Calibration Certificates (Level)

 Upload File

Data Management & Documentation

Proper handling, storage, and documentation of all survey data.

Data Backup Procedure Description

Write something...

Last Data Backup Date

Enter date...

Number of Redundant Data Storage Locations

Enter a number...

Data Storage Format (e.g., CSV, DWG, LAS)

- ☐ CSV
- ☐ DWG
- ☐ LAS
- ☐ Other (Specify)

Sample Data Log (e.g., survey report, coordinate file)

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Data Security Protocol Description

Write something...

Data Access Control Levels

- ☐ Public
- ☐ Restricted - Project Team
- ☐ Restricted - Specific Personnel