BSM Division of Surveys & Mapping

Survey Standards and Minimum Requirements

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Field Operations Minimum Requirements

See page 13 for a list of the Supporting Documents of the subjects listed below in this document.

File Naming and Field Work

BSM Codes and Field Work

Point Numbering and Field Work

Point Numbering and Special Cases

Photographs and Field Control

Field Notes

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<u>File Naming and Field Work</u>

The BSM Daily Project File Naming structure consists of the following format:

(BSM Minimum Standard File Naming Convention)

(YEAR - JOB _ MONTH / DAY / YEAR / PARTY CHIEF "three initials")

(YY – JJJ _ MM / DD / YY / ABC)

Example: 18-001_102016ABC

Each day of field survey has a separate unique file.
Also each field survey crew has a separate unique file.
The file names are used as point groups in Autodesk C3D.
This is used a quality control procedure.

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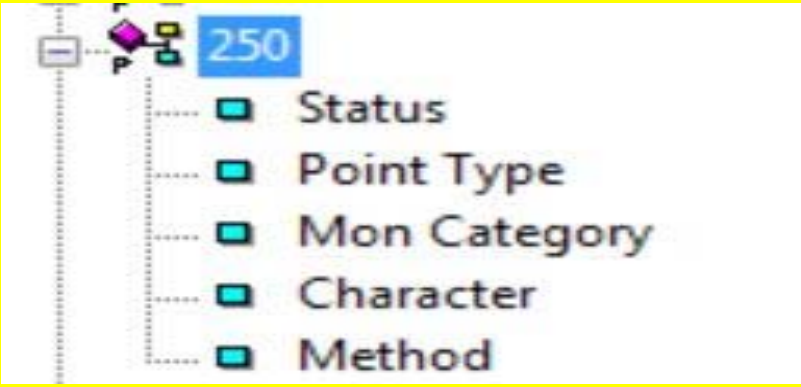
<u>BSM Codes and Field Survey Collection</u>

Use BSM field survey collection Codes.
-Code list & attributes.
These Codes have just been updated and are in testing.
Codelist has been paired with a new BSM Autodesk C3D Template.

This is the data that will appear in the Cad Survey Control Table.
Example: Code 250 (Survey Point (SURVPT) - 5 Attributes)
243,N,E,Z,SURVPT FND MONUMENT GEODETIC HPND ANCHOR WA TRAV



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Point Numbering and Field Work

The BSM project Point Number structure consists of the following control naming format:

Control Numbering

For project control established by Traverse or through individual Setups:
Use five digit control project number followed by three digit control Number.
Example: 18001101, 18001102, 18001103 … etc

Use the 5-digit Monumental MID number for all monuments.
-Well mons, nail & tags, “L” cuts, “T” cuts etc.

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Point Numbering and Field Work

The BSM project Point Number structure consists of the following topographic survey naming format:

Topographic Numbering

For project topographic data collection:
Use five-digit control project number followed by five-digit control number.
Example: 1800110001, 1800110002, 1800110003 … etc

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Point Numbering and Field Work

The BSM project Point Number structure consists of the following GNSS CCSF-CS13 naming format:

GNSS CCSF-CS13 Horizontal Control

When measuring GNSS CCSF-CS13 Horizontal Control in the field.
Use the existing CCSF-CS13 Designation number assigned by BSM **Only**.

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Point Numbering and Special Cases

Special Case 1:
All CCSF-CS13 & CCSF-VD13 points are monuments (except Tertiary, 6001 series & 9001 series) that have an assigned MID & Designation in Monumental.

When Establishing CCSF-CS13 Horizontal Coordinates on a CCSF-VD13 monument:

Use the 5-digit CCSF-VD13 control number.

When Establishing CCSF-CS13 Horizontal Coordinates on a Boundary CCSF monument:

Use the 5-digit Monumental MID number.
As a courtesy to fellow Surveyors clean wells out completely.
Electronic BSM Data Sheet (TBD)

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Point Numbering and Special Cases

Special Case 2:

When measuring Superseded Old "City Datum" Bench Marks:

Follow topographic numbering scheme
Use BSM field code "102" to measure point
Add Attributes for Benchmark type and Record Elevation

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<u>Photographs and Field Control</u>

Photographs are used document control placement or recovery:

5 photographs (in order) are taken for each point to be documented.

First write the point number on the ground next to the point.

Photo 1, Point number.
Photo 2, Street names or general location identifier.
Photo 3, Close up full character, 1 foot above.
Photo 4, General view, 3 feet away.
Photo 5, Full Over View, 10-20 feet away.

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Field Notes:

At the top of each page, record the following :

Job number:	BSM job number (on all pages).
Page number:	pages are numbered *per day*. (1 of 4 etc.)
Date:	mo/day/year (on all pages).
Location:	BSM job name (on all pages).
From/To:	Street names of work performed on.
Class of work:	topo, control etc. (on all pages).
Surveyor:	The first initial and full last names of all crew Members

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Field Notes Continued:

At the top of each page, record the following :

File:	Daily file name in instrument, (on all pages).
Fix:	Control point file name.
Instrument:	Type and number
Instrument man:	Write in who ran the instrument
Coordinates:	CCSF-CS13 / Assumed / CA SPC Zone 3 etc.
Scale factor*:	CCSF-CS13 Projection or "1" or CA SPC Projection
Weather:	temp, humidity, pressure and general conditions (clear, windy, rain etc.).
Topo:	start and end topo point numbers for the day

* Combined Factor is Implied

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Listed below are the Supporting Documents that describe the preceding procedures in detail. Page numbers shown below refer back to the pages that summarize (in this document) these procedures.

Guide-FileNamingProtocolsForInstruments (subs) -Page 3

Guide-Point Numbering System (subs) - Page 5-10

Guide-Point Numbering. MID vs Designation - Page 5

Guide-PhotoDocumentation-SurveyPoints (subs) - Page 10

Guide-SurveyProcedure-Establishing CCSF-CS13 CoordsOnMonuments (subs)
-as discussed in workshop.

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