Report of Surface Regularity

Warehouse 1

Calculated and analysed with

Flat 4

GEO-PRECISE Ltd
DRIVEN BY PRECISION

Prepared by:	*Andras Bodoczi*	**Position:**	Senior Engineer
Document number:	*GP-PRXXXXX_SR001*	**Review number:**	R01
Signed:		**Date:**	01/01/2020

Details of data collection

Site name:	*Warehouse1*	**Data registered by:**	*John Doe*
Date of registration:	*01.01.2020*	**Floor number:**	*Floor1*
Slab number:	*SLAB-01*	**Point Cloud ID:**	*Pointcloud.txt*

Instruments used

Scanner:	*Leica P40*	**Tag number:**	*N/A*
Total Station:	*N/A*	**Tag number:**	*N/A*
Digital level:	*N/A*	**Tag number:**	*N/A*

Observations

Number of scans:	*115*	**Max. scanning distance:**	*15m*
Scan resolution:	*6 mm/10m*	**Number of ground control points:**	*N/A*

Scan Quality

Registration accuracy:	*0.0006m*	**Registration check:**	*PASS*
Max. control level deviation*:	*0.0009*	**Level quality check:**	*PASS*
Grid points created:**	*4441105*	**Points failed classification:**	*0*
Classifications*:	*N/A*	**Ready for calculation:**	*PASS*

Calculation results

Irregularity tolerances

Property A:	*6mm over 1.5m*	**Property B:**	*5mm over 2m (negative @1m)*
Property C:	*4mm over 1m (negative @0.5m)*	**Step Tran.:**	*N/A*

Surface elevation

Design level:	*10.0000m*	**Highest point:**	*10.0172m*
Average dev. from design:	*0.0030m*	**Lowest point:**	9.9702m

Statistics

Area of slab (m^2):	*11129.576*	**Calculation area (m^2):**	*11102.76*
Number of grid points in calculation:	*4441105*	**Grid points failed tolerance:**	*295301*

Error quantity

Number of grid points which exceeded tolerances and the affected area in relation to the type of irregularities.

Irregularity	*Number of points*	*Area in m^2*	*% of all*
Property A	*292416*	*731.04*	*6.58*
Property B	*18188*	*45.47*	*0.41*
Property C	*2171*	*5.43*	*0.05*
Total	***295197***	***738.30***	***6.66***

Different errors can occur at the same points.

Error severity

The different deviations in relation to the type of irregularities presented through the number of the affected points.

Irregularity	*0-1mm*	*1-2mm*	*2-3mm*	*3-5mm*	*>5mm*
Property A	*175612*	*65009*	*26568*	*20848*	*4379*
Property B	*14782*	*2062*	*270*	*192*	*882*
Property C	*939*	*204*	*66*	*131*	*831*
Total	***188099***	***66799***	***26819***	***21088***	***5695***

Different errors can occur at the same points.

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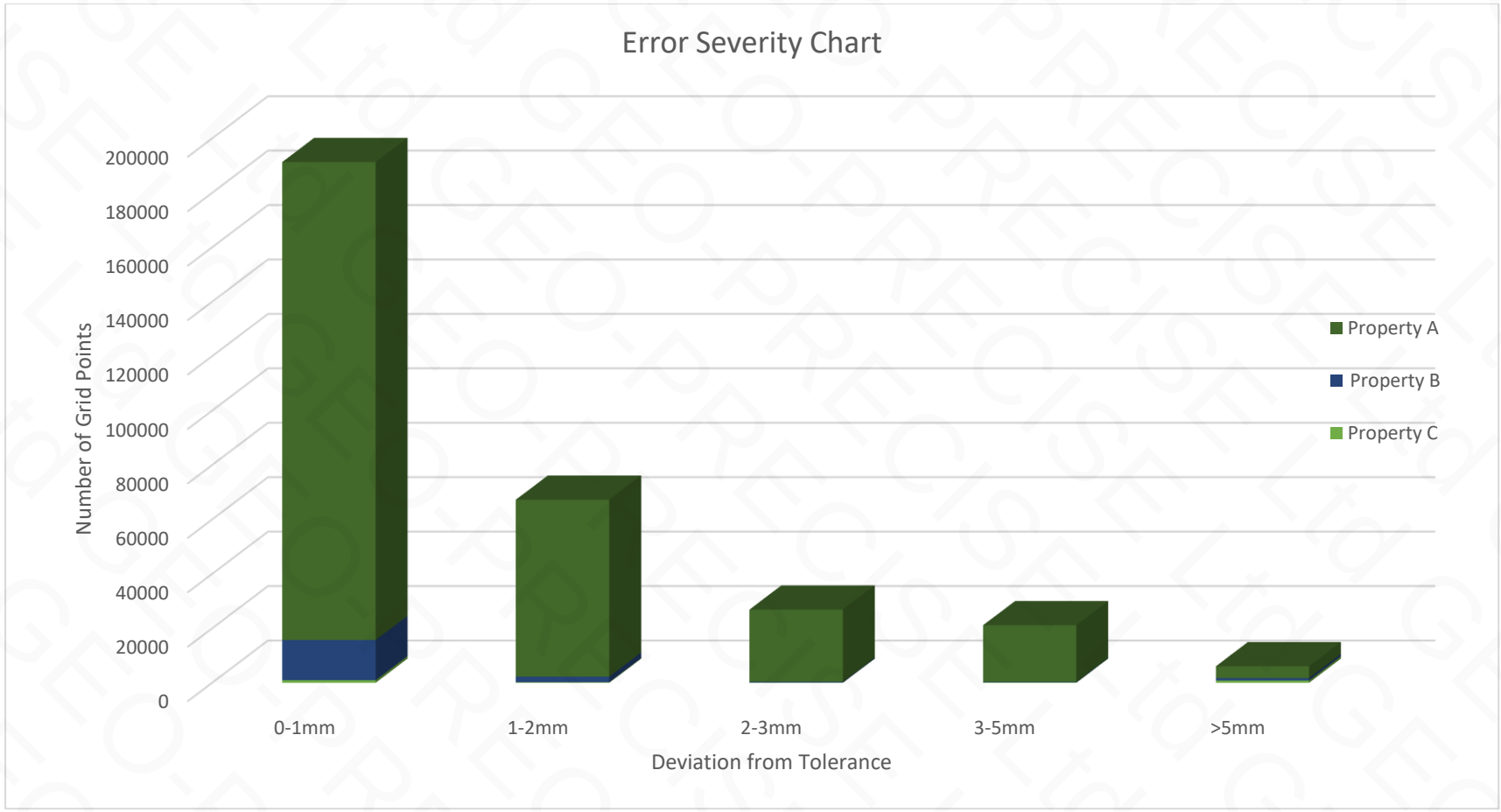
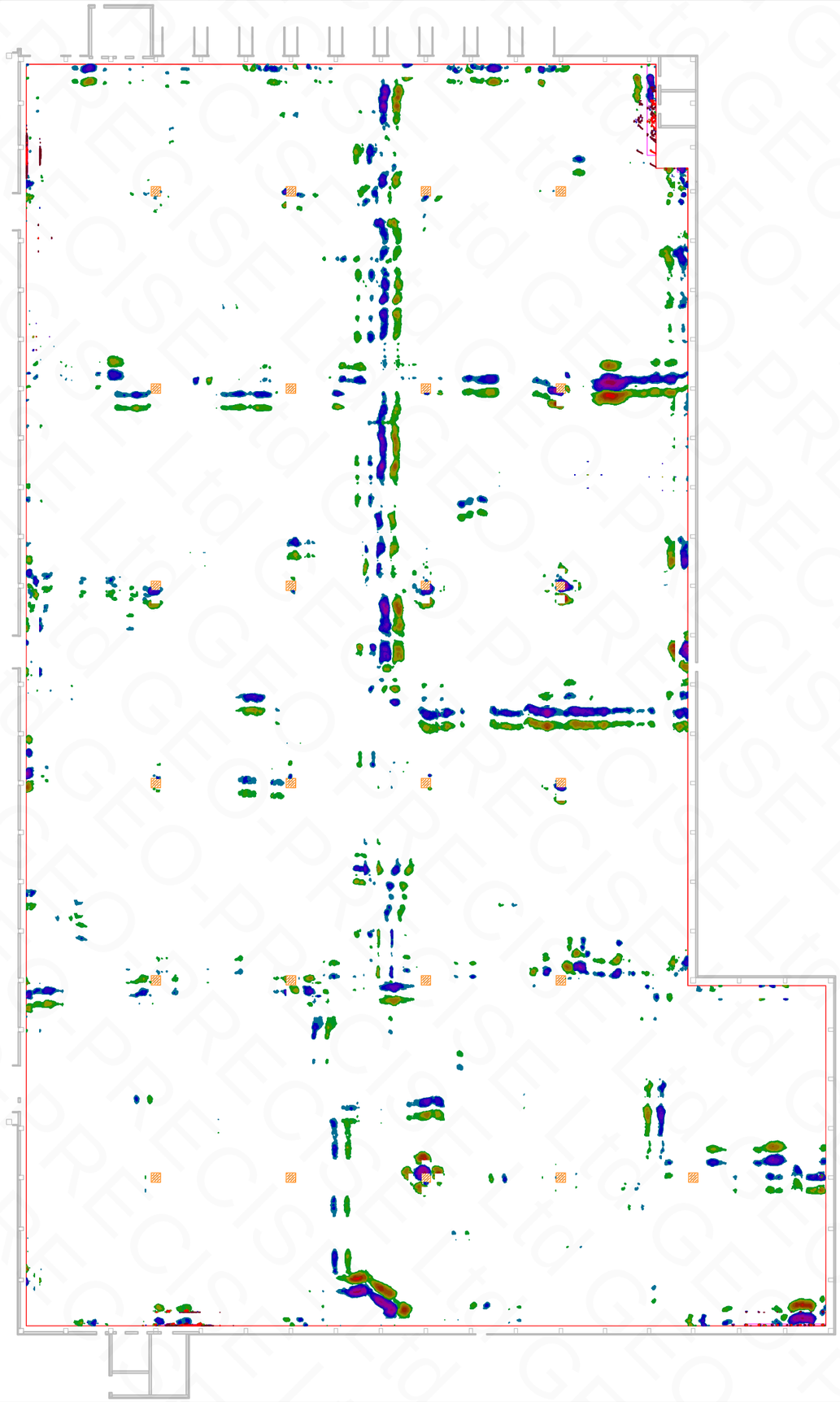
Status: *TO BE GRINDED*


Error Severity Chart
Number of Grid Points
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
0-1mm
1-2mm
2-3mm
3-5mm
>5mm
Deviation from Tolerance
Property A
Property B
Property C



ERROR MAP

Slab Boundary (offset 0.3m)

Exclusion zone (offset 0.3m)

Error values in mm

+0	-0
+1	-1
+2	-2
+3	-3
+4	-4
+5	-5
+6	-6
+7	-7
+8	-8
+9	-9
+10<	-10>

NOTES

1. Each point represents a 50mm-by-50mm square on the examined surface.

This drawing is not to be used in whole or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.

GEO-PRECISE LTD

DRIVEN BY PRECISION

PROJECT: Warehouse 1

Slab number: Slab 01

Type of irregularity: Property A

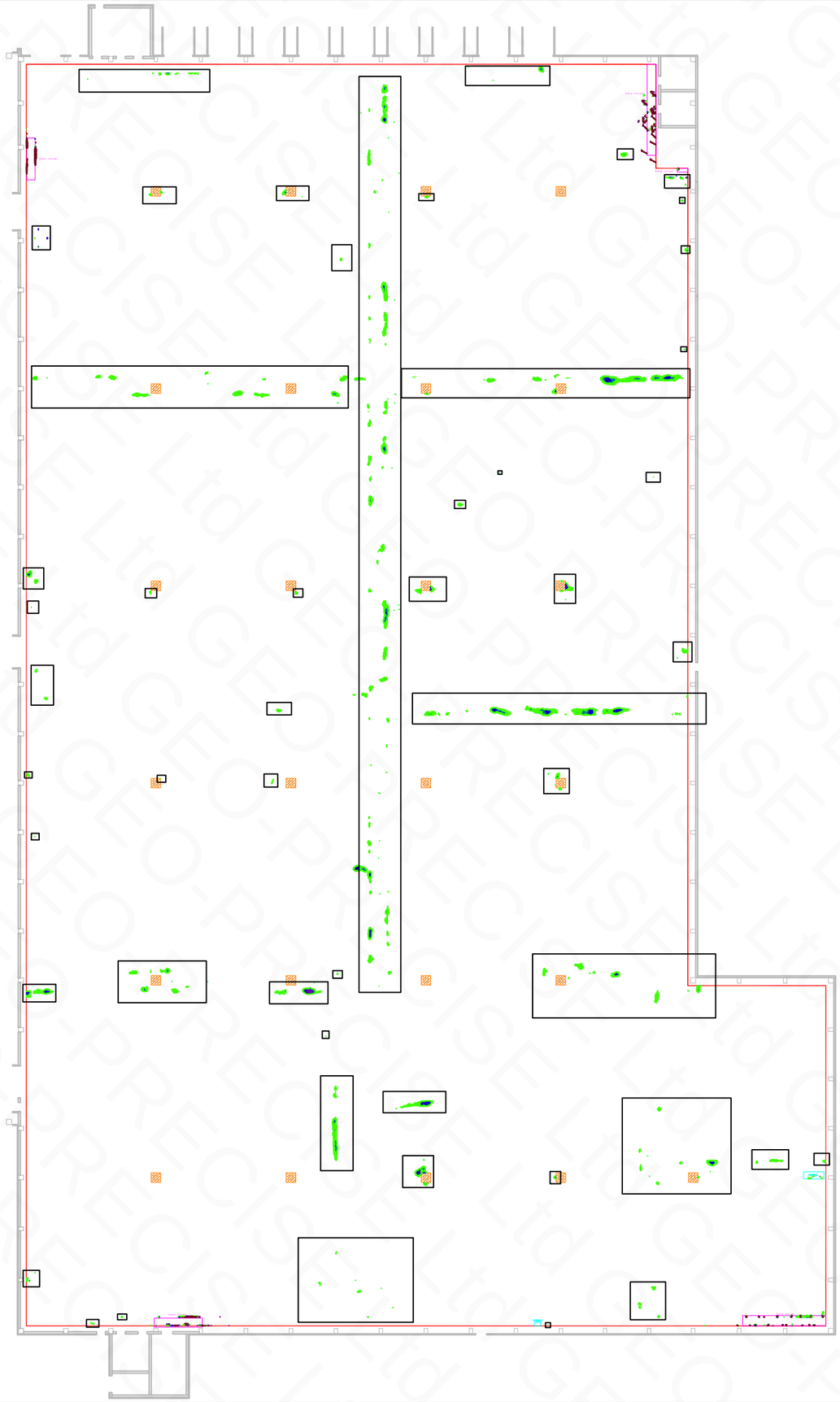
Date: 01.01.20

Prepared by: AB

Tolerance : 6mm over 1.5m

SR Report No: GP-XXXXXX_SR001_R01

Calculated with Flat4



ERROR MAP

Slab Boundary (offset 0.3m)

Exclusion zone (offset 0.3m)

Error values in mm

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+2	-2
+3	-3
+4	-4
+5	-5
+6	-6
+7	-7
+8	-8
+9	-9
+10<	-10>

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GEO-PRECISE LTD
DRIVEN BY PRECISION

PROJECT: Warehouse 1

Slab number: Slab 01

Type of irregularity: Property B

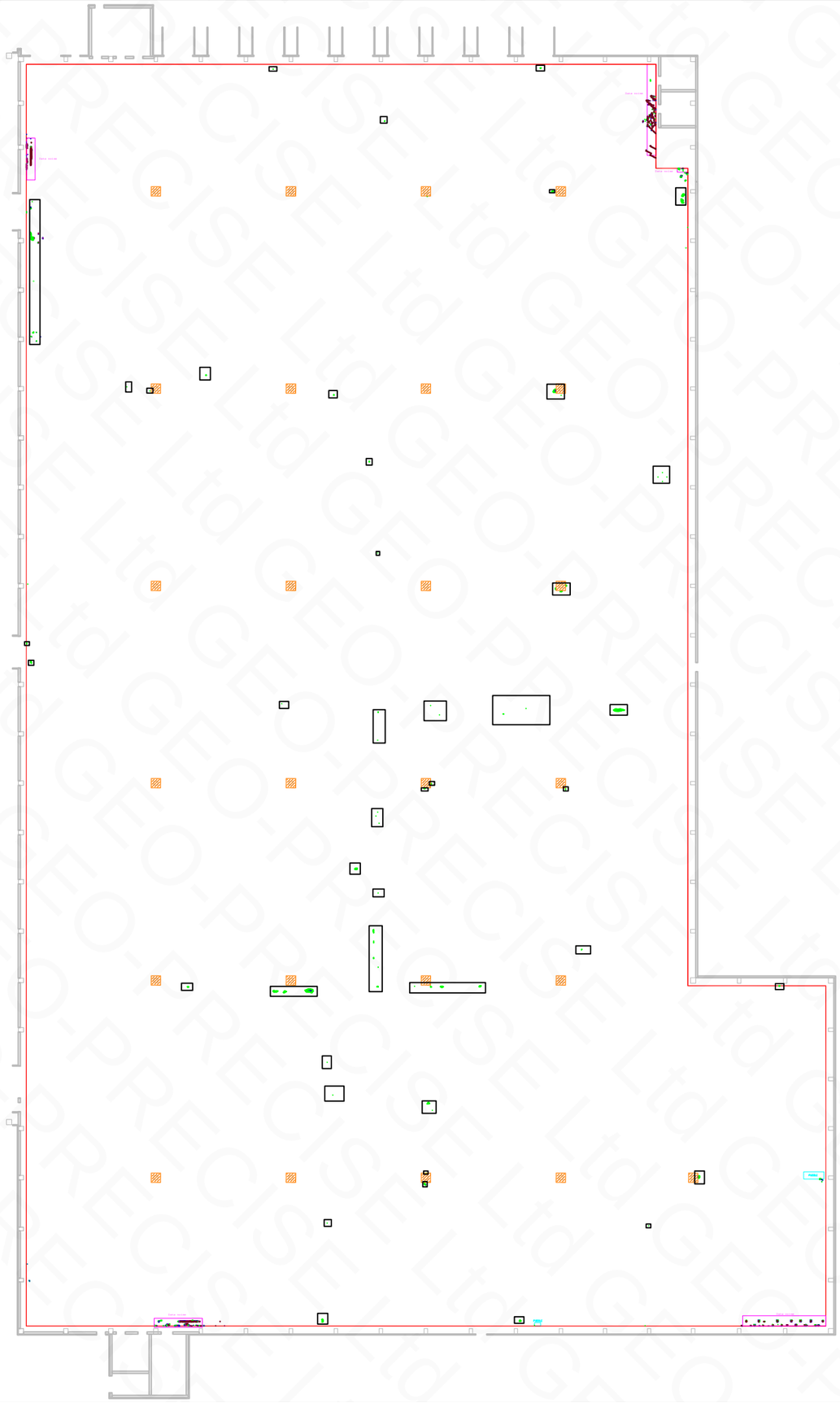
Date: 01.01.20

Prepared by: AB

Tolerance : 5mm over 2m

SR Report No: GP-XXXXXX_SR001_R01

Calculated with Flat4



ERROR MAP

Slab Boundary (offset 0.3m)

Exclusion zone (offset 0.3m)

Error values in mm

+0	-0
+1	-1
+2	-2
+3	-3
+4	-4
+5	-5
+6	-6
+7	-7
+8	-8
+9	-9
+10<	-10>

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GEO-PRECISE LTD

DRIVEN BY PRECISION

PROJECT: Warehouse 1

Slab number: SLAB 01

Type of irregularity: Property C

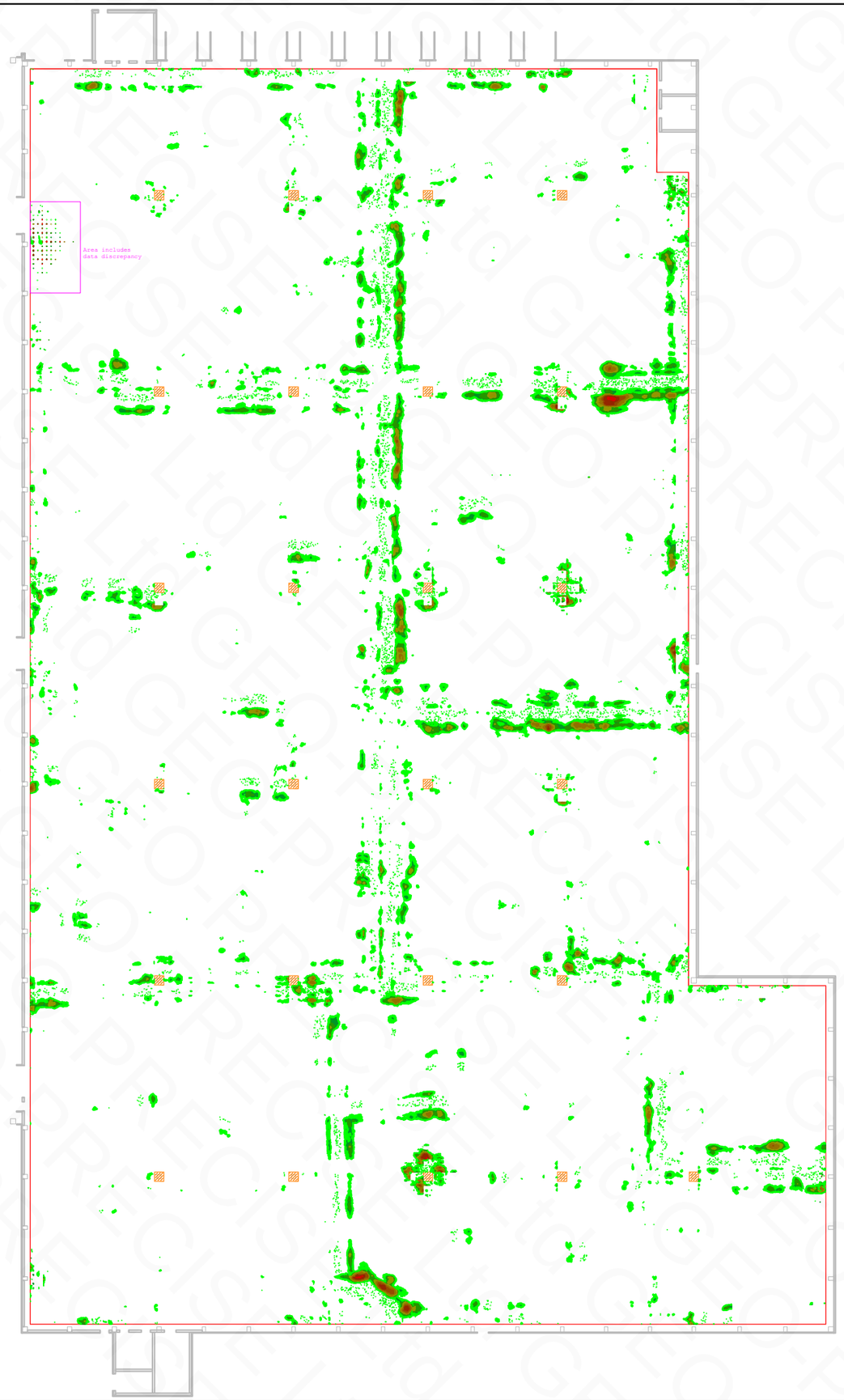
Date: 01.01.20

Prepared by: AB

Tolerance : 4mm over 1m

SR Report No: GP-XXXXXX_SR001_R01

Calculated with Flat4



GRINDING PLAN

Slab Boundary (offset 0.3m)

Exclusion zone (offset 0.3m)

Error values in mm

+0
+1
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+5
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+8
+9
+10<

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GEO-PRECISE LTD
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PROJECT: Warehouse 1

Slab number: SLAB 01

Drawing title: Grinding plan 1 of 3

Date: 01.01.2020

Prepared by: AB

Total area to grind: 465.24 m²

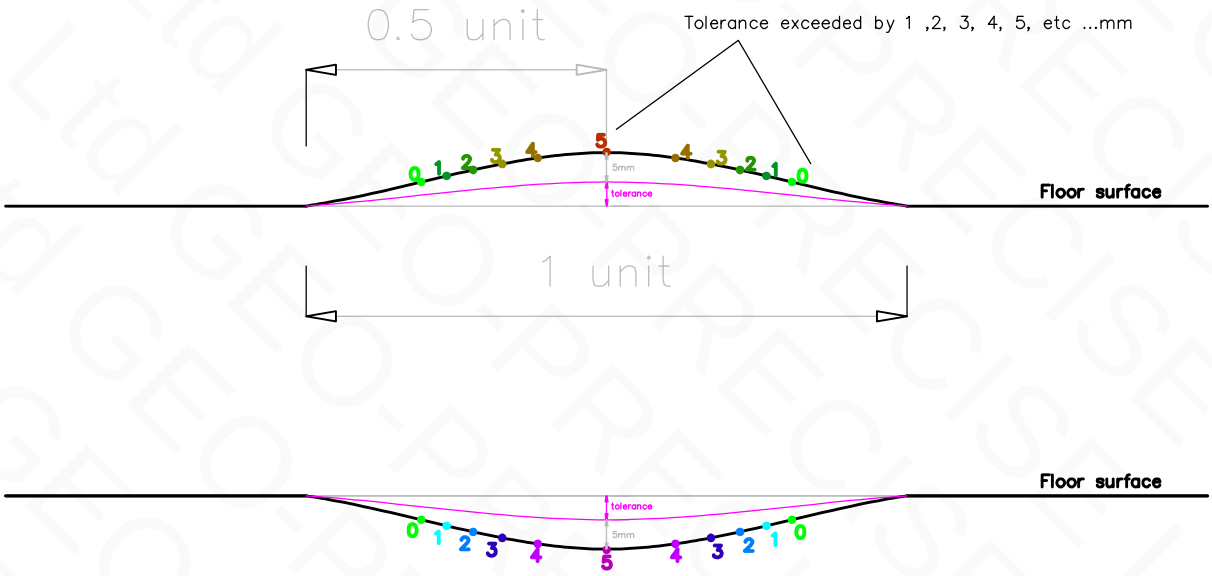
SR Report No: GP-XXXXXXX_GR001_R01

Calculated with Flat4

Explanation of error marks:

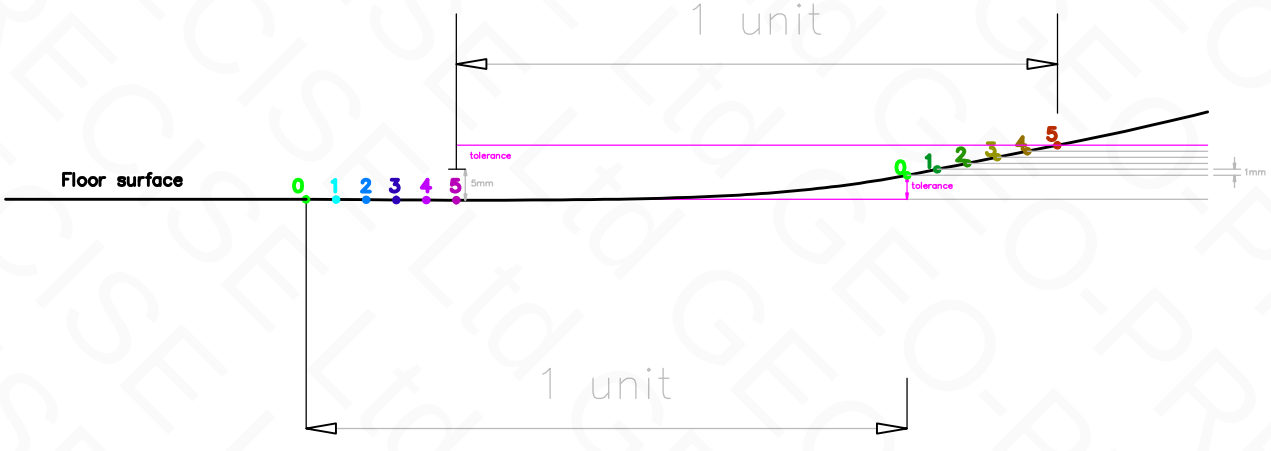
At projected error calculation (Property B,C)

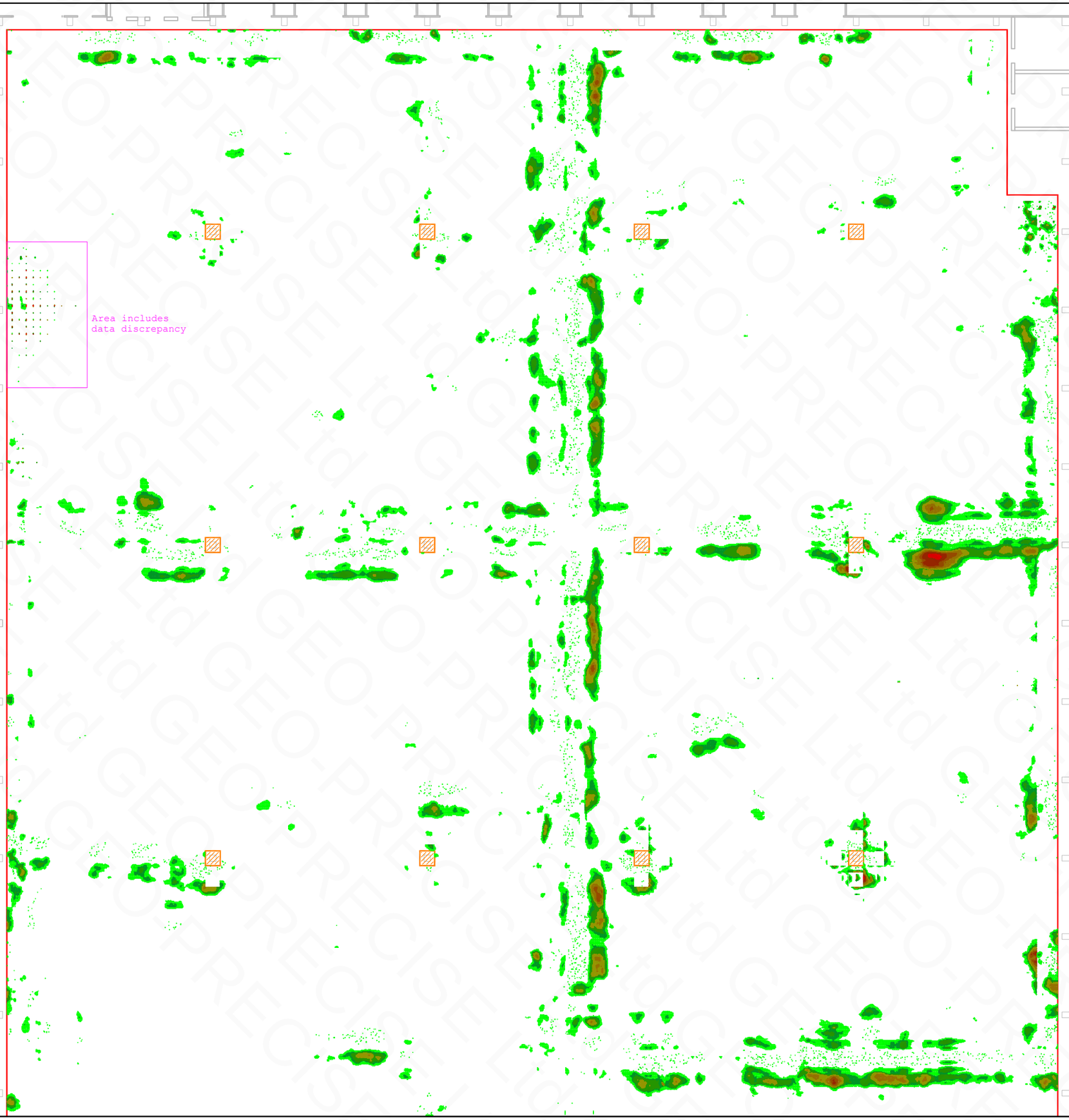
(Unit = as per Property specification)



At direct error calculation (Property A)

(Unit = as per Property specification)





GRINDING PLAN

Slab Boundary (offset 0.3m)

Exclusion zone (offset 0.3m)

Error values in mm

+0
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+9
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GEO-PRECISE LTD
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PROJECT: Warehouse 1

Slab number: SLAB 01

Drawing title: Grinding plan 2 of 3

Date: 01.01.2020

Prepared by: AB

Total area to grind: 465.24 m²

SR Report No: GP-XXXXXXX_GR001_R01

Calculated with Flat4

GRINDING PLAN

Slab Boundary (offset 0.3m)

Exclusion zone (offset 0.3m)

Error values in mm

+0
+1
+2
+3
+4
+5
+6
+7
+8
+9
+10<

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GEO-PRECISE LTD
DRIVEN BY PRECISION

PROJECT: Warehouse 1

Slab number: SLAB 01

Drawing title: Grinding plan 3 of 3

Date: 01.01.2020

Prepared by: AB

Total area to grind: 465.24 m²

SR Report No: GP-XXXXXXX_GR001_R01

Calculated with Flat4