



Portland General Electric Company

*Trojan Nuclear Plant
71760 Columbia River Hwy
Rainier, OR 97048
(503) 556-3713*

December 20, 2004

VPN-077-2004

Trojan Nuclear Plant
License NPF-1
Docket 50-344

ATTN: Document Control Desk
U. S. Nuclear Regulatory Commission
Washington, DC 20555-0001

**Trojan Nuclear Plant Final Survey Report
for Support Facilities and Site Grounds**

The enclosure to this letter provides Portland General Electric Company's Final Survey Report for the Trojan Nuclear Plant Support Facilities and Site Grounds. The report is presented in two volumes. The first volume is the main report documenting the results and conclusions of the final survey of Support Facilities and Site Grounds. The second volume is a supplement to the main report that provides scan measurement data and survey maps documenting where scan surveys were performed in each survey unit.

Data collection for the final survey of these areas began in July 2001 and was completed in November 2004. The report documents the results and conclusions of the survey, and was prepared in accordance with guidance and requirements contained in the following:

- Portland General Electric Topical Report PGE 1061, *Trojan Nuclear Plant Defueled Safety Analysis Report and License Termination Plan (PGE-1078)*,
- NUREG 1727, *NMSS Decommissioning Standard Review Plan*, Section 14.5 [Superceded by NUREG 1757 in September 2003],
- NUREG 1575, *Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM)*, Section 8.6, and
- NUREG 1757, Volume 2, *Consolidated NMSS Decommissioning Guidance – Characterization, Survey, and Determination of Radiological Criteria*, Section 4.5

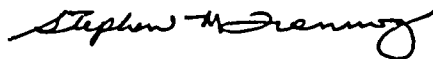
The attachment to this letter indicates where each of the requirements in the documents listed above is addressed.

The data collected during final survey demonstrate that each survey unit of Support Facilities and Site Grounds meets the radiological criteria for unrestricted use specified in 10 CFR 20.1402. On that basis, Portland General Electric Company has concluded that each of these areas meets regulatory requirements for release to unrestricted use.

To support Portland General Electric Company's plans to have its Trojan Nuclear Plant license terminated in 2005 per 10 CFR 50.82(a)(11), it is requested that the Nuclear Regulatory Commission review this data package for acceptance of this portion of the site final radiological survey.

Should you have any questions concerning this matter, please contact Mr. Jerry D. Reid of my staff at (503) 556-6474.

Sincerely,



Stephen M. Quennoz
Vice President, Generation

Attachment
Enclosure

c: Director, NRC Region IV/DNMS
J. T. Buckley, NMSS/DWM/DCB (3 Copies)
R. J. Evans, NRC Region IV/DNMS/FCDB
D. Stewart-Smith, ODOE
A. Bless, ODOE
M. Dibblee, EFSC

Guidance/Requirement	Source	Where Addressed
... a final survey report will be prepared which summarizes the data and documents the conclusion that the TNP facility and site meet the 10 CFR 20.1402 release criteria and can be released for unrestricted use.	PGE 1061 – Trojan License Termination Plan – Section 4.1.3	Final Survey Report – Section 1.1, Section 5
... and in the final survey report. The final survey report is prepared which summarizes the data and states the conclusions.	PGE 1061 – Trojan License Termination Plan – Section 4.2.5.5	Final Survey Report – Section 1.1, Section 5
The report will provide a summary of the ALARA evaluations.	PGE 1061 – Trojan License Termination Plan – Section 4.7.3	Final Survey Report – Section 4.2.4, Table 4-2
The report will provide a summary of the survey data results.	PGE 1061 – Trojan License Termination Plan – Section 4.7.3	Final Survey Report –Section 3, Table 3-1, Table 3-2
The report will provide a summary of the overall conclusions.	PGE 1061 – Trojan License Termination Plan – Section 4.7.3	Final Survey Report –Section 5, Table 4-2
Information such as the number and type of measurements...will be included in the report.	PGE 1061 – Trojan License Termination Plan – Section 4.7.3	Final Survey Report – Section 3, Table 3-1, Appendices B through E
Information such as basic statistical quantities...will be included in the report.	PGE 1061 – Trojan License Termination Plan – Section 4.7.3	Final Survey Report – Appendices B through E
Information such as statistical test results...will be included in the report.	PGE 1061 – Trojan License Termination Plan – Section 4.7.3	Final Survey Report – Appendices B through E
The information should include: An overview of the results of the final status survey.	NUREG 1727 – NMSS Decommissioning Standard Review Plan, Rev 0, Section 14.5	Final Survey Report –Section 3, Table 3-1

Guidance/Requirement	Source	Where Addressed
<p>The information should include: A discussion of any changes that were made in the final status survey from what was proposed in the Decommissioning Plan or other prior submittals.</p>	<p>NUREG 1727 – NMSS Decommissioning Standard Review Plan, Rev 0, Section 14.5</p>	<p>N/A. Survey performed in accordance with PGE 1061 - Trojan License Termination Plan.</p>
<p>The information should include: A description of the method by which the number of samples was determined for each survey unit.</p>	<p>NUREG 1727 – NMSS Decommissioning Standard Review Plan, Rev 0, Section 14.5</p>	<p>Final Survey Report –Section 2.3.2.3, Section 4.1.3.3</p>
<p>The information should include: A summary of the values used to determine the number of samples and a justification for these values.</p>	<p>NUREG 1727 – NMSS Decommissioning Standard Review Plan, Rev 0, Section 14.5</p>	<p>PGE 1061 - Trojan License Termination Plan – Section 4.4.3.1, Appendix 4-2</p>
<p>The information should include: The survey results for each survey unit including: The number of samples taken for each survey unit.</p>	<p>NUREG 1727 – NMSS Decommissioning Standard Review Plan, Rev 0, Section 14.5</p>	<p>Final Survey Report – Appendices B through E</p>
<p>The information should include: The survey results for each survey unit including: A map or drawing of the survey unit showing the reference system and random start systematic sample locations for Class 1 and Class 2 survey units, and random locations shown for Class 3 survey units and reference areas.</p>	<p>NUREG 1727 – NMSS Decommissioning Standard Review Plan, Rev 0, Section 14.5</p>	<p>Final Survey Report – Appendices B through E</p>

Guidance/Requirement	Source	Where Addressed
The information should include: The survey results for each survey unit including: The measured sample concentrations.	NUREG 1727 – NMSS Decommissioning Standard Review Plan, Rev 0, Section 14.5	Final Survey Report – Appendices B through E
The information should include: The survey results for each survey unit including: The statistical evaluation of the measured concentrations.	NUREG 1727 – NMSS Decommissioning Standard Review Plan, Rev 0, Section 14.5	Final Survey Report – Appendices B through E
The information should include: The survey results for each survey unit including: Judgmental and miscellaneous sample data sets reported separately from those samples collected for performing the statistical evaluation.	NUREG 1727 – NMSS Decommissioning Standard Review Plan, Rev 0, Section 14.5	Final Survey Report – Appendices B through E, Supplements
The information should include: The survey results for each survey unit including: A discussion of anomalous data including any areas of elevated direct radiation detected during scanning that exceeded the investigation level or measurement locations in excess of the DCGL _w .	NUREG 1727 – NMSS Decommissioning Standard Review Plan, Rev 0, Section 14.5	Final Survey Report – Section 2.4.2, Table 3-1, Table 3-2, Appendices B through E

Guidance/Requirement	Source	Where Addressed
<p>The information should include: The survey results for each survey unit including: A statement that a given survey unit satisfied the DCGL_w and the elevated measurement comparison if any sample points exceeded the DCGL_w.</p>	<p>NUREG 1727 – NMSS Decommissioning Standard Review Plan, Rev 0, Section 14.5</p>	<p>Final Survey Report – Section 5, Table 4-2</p>
<p>The information should include: A description of any changes in initial survey unit assumptions relative to the extent of residual radioactivity.</p>	<p>NUREG 1727 – NMSS Decommissioning Standard Review Plan, Rev 0, Section 14.5</p>	<p>Final Survey Report – N/A</p>
<p>The information should include: If a survey unit fails, a description of the investigation conducted to ascertain the reason for the failure and a discussion of the impact that the failure has on the conclusion that the facility is ready for final radiological surveys.</p>	<p>NUREG 1727 – NMSS Decommissioning Standard Review Plan, Rev 0, Section 14.5</p>	<p>N/A</p>
<p>The information should include: If a survey unit fails, a discussion of the impact that the reason for the failure has on other survey unit information.</p>	<p>NUREG 1727 – NMSS Decommissioning Standard Review Plan, Rev 0, Section 14.5</p>	<p>N/A</p>
<p>Documentation of the final status survey should provide a complete and unambiguous record of the radiological status of the survey unit relative to the established DCGLs.</p>	<p>NUREG 1575 MARSSIM – Section 8.6</p>	<p>Final Survey Report – Table 4-2</p>

Guidance/Requirement	Source	Where Addressed
Sufficient data and information should be provided to enable an independent evaluation of the results of the survey including repeating measurements at some future time.	NUREG 1575 MARSSIM – Section 8.6	Final Survey Report – Appendices B through E, Supplements
The document should describe the instrumentation or analytical methods used.	NUREG 1575 MARSSIM – Section 8.6	Final Survey Report – Section 2.2
The document should describe how the data were converted into DCGL units.	NUREG 1575 MARSSIM – Section 8.6	Final Survey Report – Section 2.4.3
The document should describe the process of comparing the results to the DCGLs.	NUREG 1575 MARSSIM – Section 8.6	Final Survey Report – Section 4.2
The document should describe the process of determining that the data quality objectives were met.	NUREG 1575 MARSSIM – Section 8.6	Final Survey Report – Section 4.1
The results of actions taken as a consequence of individual measurements or sample concentrations in excess of the investigation levels should be reported together with any additional data, remediation, or re-surveys performed to demonstrate that issues concerning potential areas of elevated activity were resolved.	NUREG 1575 MARSSIM – Section 8.6	Final Survey Report – Section 2.4.2, Table 3-2, Appendices B through E

Guidance/Requirement	Source	Where Addressed
The results of the data evaluation using statistical methods to determine if release criteria were satisfied should be described.	NUREG 1575 MARSSIM – Section 8.6	Final Survey Report – Section 4.1.3
The information should include: An overview of the results of the FSS.	NUREG 1757 Volume 2 Consolidated NMSS Decommissioning Guidance – Section 4.5	Final Survey Report – Section 3, Table 3-1
The information should include: A summary of the DCGLs for the facility (if DCGLs are used).	NUREG 1757 Volume 2 Consolidated NMSS Decommissioning Guidance – Section 4.5	Final Survey Report – Section 1.3.2 (Appendices B through E also list the DCGL for each survey unit.)
The information should include: A discussion of any changes that were made in the FSS from what was proposed in the DP or other prior submittals.	NUREG 1757 Volume 2 Consolidated NMSS Decommissioning Guidance – Section 4.5	N/A. Survey performed in accordance with PGE 1061 - Trojan License Termination Plan.
The information should include: A description of the method by which the number of samples was determined for each survey unit.	NUREG 1757 Volume 2 Consolidated NMSS Decommissioning Guidance – Section 4.5	Final Survey Report – Section 2.3.2.3, Section 4.1.3.3
The information should include: A summary of the values used to determine the number of samples and a justification for these values.	NUREG 1757 Volume 2 Consolidated NMSS Decommissioning Guidance – Section 4.5	PGE 1061 – Trojan License Termination Plan – Section 4.4.3.1, Appendix 4-2
The information should include: The survey results for each survey unit including the following: The number of samples taken for each survey unit.	NUREG 1757 Volume 2 Consolidated NMSS Decommissioning Guidance – Section 4.5	Final Survey Report – Appendices B through E

Guidance/Requirement	Source	Where Addressed
<p>The information should include: The survey results for each survey unit including the following: a description of the survey unit, including (a) a map or drawing of the survey unit showing the reference system and random start systematic sample locations for Class 1 and Class 2 survey units, and random locations shown for Class 3 survey units and reference areas, (b) discussion of remedial actions and unique features, and (c) areas scanned for Class 2 and 3 survey units.</p>	<p>NUREG 1757 Volume 2 Consolidated NMSS Decommissioning Guidance – Section 4.5</p>	<p>Final Survey Report – Sections 3.1, 3.2, 3.3, and 3.4, Appendices B through E, Supplements</p>
<p>The information should include: The survey results for each survey unit including the following: the measured sample concentrations, in units that are comparable to the DCGLs.</p>	<p>NUREG 1757 Volume 2 Consolidated NMSS Decommissioning Guidance – Section 4.5</p>	<p>Final Survey Report – Appendices B through E</p>
<p>The information should include: The survey results for each survey unit including the following: the statistical evaluation of the measured concentrations.</p>	<p>NUREG 1757 Volume 2 Consolidated NMSS Decommissioning Guidance – Section 4.5</p>	<p>Final Survey Report – Appendices B through E</p>
<p>The information should include: The survey results for each survey unit including the following: judgmental and miscellaneous sample data sets reported separately from those samples collected for performing the statistical evaluation.</p>	<p>NUREG 1757 Volume 2 Consolidated NMSS Decommissioning Guidance – Section 4.5</p>	<p>Final Survey Report – Appendices B through E, Supplements</p>

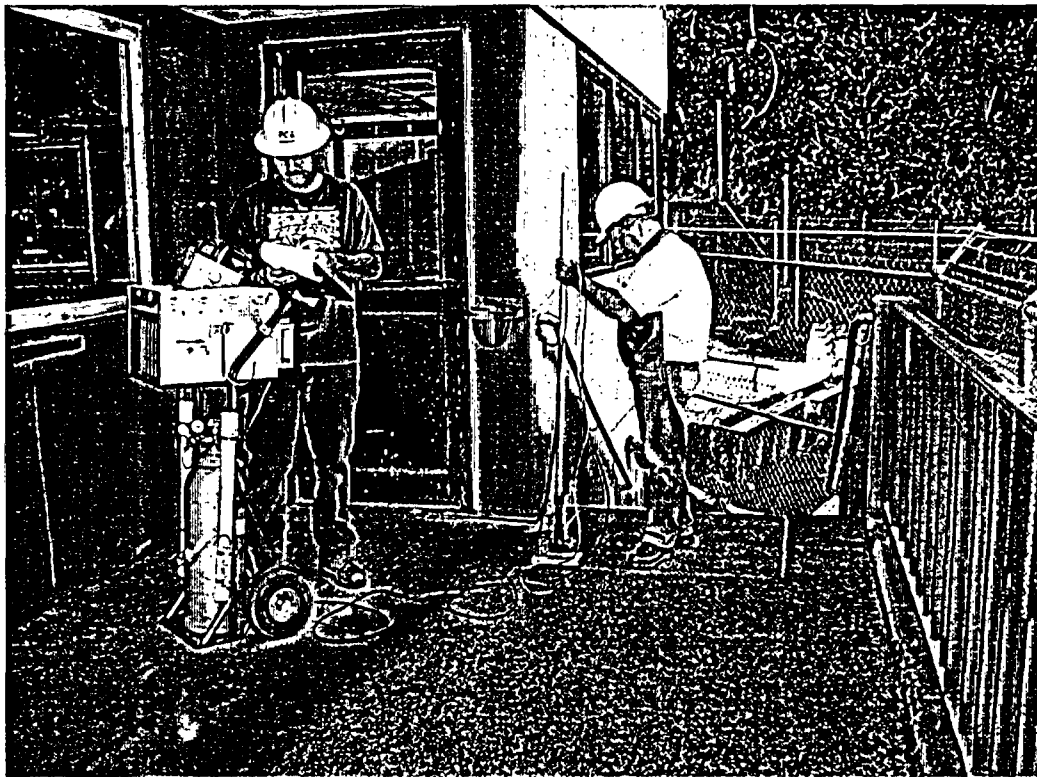
Guidance/Requirement	Source	Where Addressed
<p>The information should include: The survey results for each survey unit including the following: a discussion of anomalous data including any areas of elevated direct radiation detected during scanning that exceeded the investigation level or any measurement locations in excess of DCGL_w.</p>	<p>NUREG 1757 Volume 2 Consolidated NMSS Decommissioning Guidance – Section 4.5</p>	<p>Final Survey Report – Section 2.4.2, Table 3-2, Appendices B through E, Supplements</p>
<p>The information should include: The survey results for each survey unit including the following: a statement that a given survey unit satisfied the DCGL_w and the elevated measurement comparison if any sample points exceeded the DCGL_w.</p>	<p>NUREG 1757 Volume 2 Consolidated NMSS Decommissioning Guidance – Section 4.5</p>	<p>Final Survey Report – Table 4-2</p>
<p>The information should include: A description of any changes in initial survey unit assumptions relative to the extent of residual radioactivity (e.g., material not accounted for during site characterization).</p>	<p>NUREG 1757 Volume 2 Consolidated NMSS Decommissioning Guidance – Section 4.5</p>	<p>Final Survey Report – N/A</p>
<p>The information should include: A description of how ALARA practices were employed to achieve final activity levels.</p>	<p>NUREG 1757 Volume 2 Consolidated NMSS Decommissioning Guidance – Section 4.5</p>	<p>Final Survey Report – Section 4.2.4, Table 4-2</p>

Enclosure to VPN-077-2004
December 20, 2004

Trojan Nuclear Plant

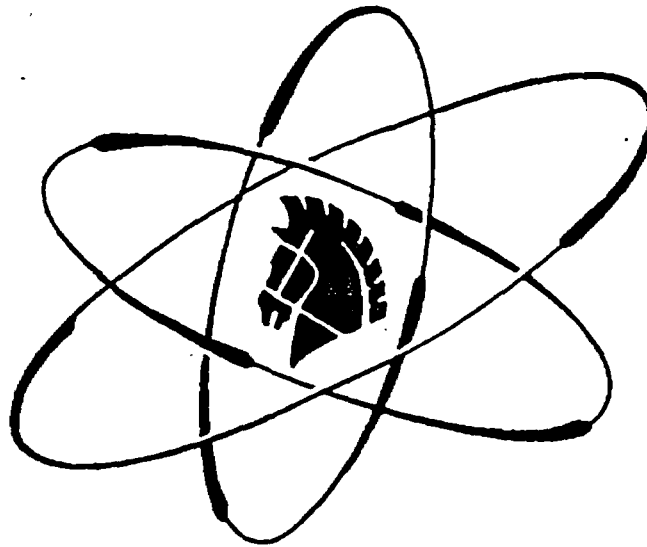
Final Survey Report Support Facilities and Site Grounds

Volume 1 of 2



Final Survey Report

**Support Facilities and
Site Grounds**



Portland General Electric

TABLE OF CONTENTS

EXECUTIVE SUMMARYv

1. INTRODUCTION 1-1

 1.1 PURPOSE AND SCOPE..... 1-1

 1.2 DESCRIPTION..... 1-1

 1.3 SITE RELEASE CRITERIA 1-2

 1.3.1 APPLICATION OF THE SITE RELEASE CRITERIA 1-2

 1.3.2 DERIVED CONCENTRATION GUIDELINE LEVELS..... 1-3

2. FINAL SURVEY DESIGN 2-1

 2.1 SURVEY UNITS..... 2-1

 2.1.1 CATEGORY..... 2-1

 2.1.2 CLASSIFICATION 2-1

 2.1.3 SURVEY UNIT SIZE..... 2-2

 2.1.4 IDENTIFICATION NOMENCLATURE 2-2

 2.2 INSTRUMENTATION 2-3

 2.2.1 PORTABLE INSTRUMENTATION..... 2-3

 2.2.2 LABORATORY INSTRUMENTATION 2-5

 2.3 SURVEY METHODS 2-6

 2.3.1 SCAN MEASUREMENTS 2-7

 2.3.2 STATIC MEASUREMENTS 2-8

 2.3.3 SUPPLEMENTAL MEASUREMENTS 2-9

 2.3.4 MEASUREMENT LOCATION IDENTIFICATION..... 2-9

 2.4 SURVEY PERFORMANCE..... 2-9

 2.4.1 SAMPLE HANDLING..... 2-9

 2.4.2 DATA INVESTIGATION..... 2-10

 2.4.3 DATA RECORDING 2-10

 2.4.4 DATA MANAGEMENT..... 2-11

 2.4.5 QUALITY CONTROL MEASUREMENTS 2-11

 2.4.6 PROCEDURES 2-12

 2.4.7 TECHNICAL BASIS DOCUMENTS..... 2-12

 2.4.8 CONTROL OF VENDOR SUPPLIED SERVICES 2-13

 2.4.9 TRAINING 2-14

3. FINAL SURVEY RESULTS 3-1

 3.1 SUPPORT FACILITY EXTERIORS..... 3-1

3.2 SUPPORT FACILITY INTERIORS 3-1

3.3 CONDENSATE DEMINERALIZER BUILDING INTERIOR 3-2

3.4 SITE GROUNDS 3-2

4. DATA ASSESSMENT 4-1

4.1 DATA VERIFICATION AND VALIDATION..... 4-1

 4.1.1 DATA QUALITY 4-1

 4.1.2 GRAPHICAL DATA REVIEW 4-2

 4.1.3 BASIC STATISTICAL COMPARISONS 4-2

4.2 SATISFACTION OF THE SITE RELEASE CRITERIA 4-3

 4.2.1 CONDITION #1 – MEAN TEST 4-3

 4.2.2 CONDITION #2 – ELEVATED MEASUREMENT COMPARISON 4-3

 4.2.3 CONDITION #3 – SIGN TEST 4-4

 4.2.4 CONDITION #4 – ALARA EVALUATION 4-4

5. FINAL SURVEY CONCLUSION..... 5-1

6. REFERENCES..... 6-1

APPENDIX A – SURVEY PREPARATION ACTIVITES..... A-1

APPENDIX B – SURVEY UNIT SUMMARY REPORTS – SUPPORT
FACILITY EXTERIORSB-1

APPENDIX C – SURVEY UNIT SUMMARY REPORTS – SUPPORT
FACILITY INTERIORSC-1

APPENDIX D – SURVEY UNIT SUMMARY REPORTS – CONDENSATE
DEMINERALIZER BUILDING INTERIOR D-1

APPENDIX E – SURVEY UNIT SUMMARY REPORTS – SITE GROUNDS.....E-1

TABLES

Table	Title
Table 2-1	Portable Instrumentation Radiation Detectors
Table 2-2	Summary of Operational Survey Data
Table 2-3	Final Survey Procedures
Table 3-1	Summary of Final Survey Results
Table 3-2	Summary of Data Investigation Results and Actions Taken
Table 4-1	Summary of Statistical Quantity Failures
Table 4-2	Satisfaction of Conditions for Site Release

FIGURES

<u>Figure</u>	<u>Title</u>
Figure 1-1	Trojan Plant Layout

EXECUTIVE SUMMARY

This report presents the results and conclusions of the final survey conducted by Portland General Electric Company of support facilities and site grounds at Trojan Nuclear Plant. The final survey of the support facilities and site grounds commenced in July 2001. Final survey data collection was completed in November 2004.

The final survey was performed in accordance with the final survey process described in PGE-1061, "Trojan Nuclear Plant Defueled Safety Analysis Report and License Termination Plan (PGE-1078)," referred to as the LTP. The support facilities and site grounds were divided into 74 survey units, encompassing over 132,000 square meters of surface area, and classified according to their potential for containing residual radioactivity. Eight survey units were classified as Class 1, 12 survey units as Class 2, and 54 as Class 3. Survey data were collected from each survey unit according to data collection patterns and frequencies established for each classification. Scan measurements were performed over approximately 8 percent of the entire surface area and a total of 2,364 static measurements were collected as final survey data. In addition, 1,627 supplemental removable surface radioactivity measurements were collected.

The final survey data demonstrate that each survey unit meets the radiological criteria for unrestricted use specified in 10 CFR 20.1402. Based on the results of the final survey, Portland General Electric Company concludes support facilities and site grounds meet the regulatory requirements for release to unrestricted use.

1. INTRODUCTION

1.1 PURPOSE AND SCOPE

This report presents the results and conclusions of the final survey of support facilities and site grounds. It provides the information required by 10 CFR 50.82(a)(11), which demonstrates that support facilities and site grounds meet the radiological criteria for unrestricted use specified in 10 CFR 20.1402. This report also documents the final survey was performed in accordance with the final survey process described in PGE-1061, "Trojan Nuclear Plant Defueled Safety Analysis Report and License Termination Plan (PGE-1078)," hereinafter referred to as the LTP.

1.2 DESCRIPTION

The support facilities, shown in Figure 1-1, include the Condensate Demineralizer Building (also known as the Radwaste Storage Building), Maintenance Building, Security Building (also known as the Access Control Facility), Trojan Central Building, Materials Warehouse, Technical Support Center (TSC), Chlorine Building, Guardhouse, Gas Bottle Storage Building, and Pebble Springs Warehouse.

Also included as support facilities are the Containment Building Tendon Gallery, Intake Structure, Discharge & Dilution Structure, Circulating Water Pump Pit, transformer area, Oily Water Separator, Solids Settling Basin, and the exteriors of the Containment, Auxiliary, Fuel, Turbine, and Control Buildings.

The site grounds consist of the Industrial Area grounds, excluding the yard area within and immediately adjacent to the ISFSI that were surveyed in 1996. Two areas outside the Industrial Area are included in the site grounds. They are the Pebble Springs Warehouse yard, since it was used to store radwaste boxes filled with concrete debris from inside the Containment awaiting shipment, and a smaller area north of the South Warehouse which was used to store concrete blocks removed from the Containment Building exterior wall.

In their post-final survey configuration, the support facilities and site grounds exist largely as they did during plant operations, with the exception of the Condensate Demineralizer Building. The Condensate Demineralizer Building is a three-story, partially below grade structure located west of the Turbine Building. During plant operations, it contained the vessels, filters, and pumps that were used to demineralize the condensate. Once the plant shutdown, the equipment was removed from the building and it was used as a radwaste processing and storage facility. It now exists as an empty building.

Support facilities and site grounds were prepared for final survey by a series of decommissioning activities, including radiological characterization, dismantlement and demolition, remediation, and turnover to final survey. A general description of these activities is given in Appendix A. Detailed decommissioning information as well as a brief radiological history is contained in the LTP, Section 3. Radiological characterization data were gathered and analyzed. The results guided decisions regarding the need for, extent of, and most effective means of remediation. Contaminated structures, equipment, and components were dismantled or demolished and

removed for disposal. Remaining structure surfaces were remediated, as needed, and then systematically turned over for final survey. An assessment of the operational and radiological history established the initial classification of these areas.

Support facilities and site grounds were divided into the four areas to facilitate survey preparation and final survey activities. The respective surface areas are shown in the following table.

Surface Area of Support Facilities and Site Grounds

Interior Surfaces	Area (m ²)
Support Facility Exteriors	57,000
Support Facility Interiors	28,859
Condensate Demineralizer Building Interior	4,114
Site Grounds	42,242
Total Surface Area:	132,215

1.3 SITE RELEASE CRITERIA

The site release criteria applied to the final survey correspond to the radiological criteria for unrestricted use given in 10 CFR 20.1402, which are:

1. Dose Criterion: The residual radioactivity that is distinguishable from background radiation results in a Total Effective Dose Equivalent (TEDE) to an average member of the critical group that does not exceed 25 mrem/yr, including that from groundwater sources of drinking water; and
2. ALARA Criterion: The residual radioactivity has been reduced to levels that are as low as reasonably achievable (ALARA).

1.3.1 APPLICATION OF THE SITE RELEASE CRITERIA

Levels of residual radioactivity that correspond to the allowable radiation dose and ALARA levels of the site release criteria were derived by analysis of various scenarios and pathways (e.g., direct radiation, inhalation, ingestion) through which exposures could occur. These derived levels, referred to as Derived Concentration Guideline Levels (DCGLs), form the basis for the following four conditions which, when met, satisfy the site release criteria:

1. The average residual radioactivity above background is equal to or below the DCGL;
2. Individual measurements, representing small areas of residual radioactivity which exceed the DCGL, do not exceed the elevated measurement comparison DCGL;

3. Where one or more individual static measurements exceed the DCGL, the average residual radioactivity passes the Sign statistical test; and
4. Remediation is performed where it is ALARA to reduce the levels of residual radioactivity to below the concentrations necessary to meet the DCGLs.

The manner in which these conditions were met is described in Section 4.2.

1.3.2 DERIVED CONCENTRATION GUIDELINE LEVELS

The residual radioactivity concentration levels on support facility equipment and structural surfaces were compared to a gross activity DCGL of 21,000 dpm/100 cm². Areas within the Condensate Demineralizer Building were compared to a gross activity DCGL of 7,500 dpm/100 cm². For the Pebble Springs Warehouse, a gross activity DCGL of 22,000 dpm/100 cm² was used. The gross activity DCGLs were derived for surface residual radioactivity and developed using the methodology described in the LTP, Section 4.2.3, based on the radionuclide-specific screening DCGLs given in the LTP, Table 4-1.

The residual radioactivity concentration levels in the soil on the site grounds were compared to the radionuclide-specific screening DCGLs for volumetric residual radioactivity given in the LTP, Table 4-1, in a unity rule application.

1.3.2.1 Primary-to-Secondary System Leakage Gross Activity DCGL

The gross activity DCGL of 21,000 dpm/100 cm² was developed for application to structures, such as support facilities, where the principal contamination mechanism would have been from primary-to-secondary system leakage. Samples were collected from representative structures or components associated with the secondary system where the radioactivity detected would be due to primary system leakage into the secondary system. The samples were used to establish the radionuclide distribution of surface residual radioactivity. The samples were sent to an offsite laboratory for analysis and the laboratory results were used to calculate a gross activity DCGL value for each sample.

Several radionuclides of interest were detected in each of the samples. The single radionuclide detected in all the samples was ¹³⁷Cs. It accounted for the highest activity concentration, ranging from 83 to 99% of the total activity, in all but one of the samples. In that one sample, ⁶³Ni had the highest activity concentration and ¹³⁷Cs accounted for only 31% of the total activity. For all samples, alpha emitters were either not detected by sample analysis or were detected at activity concentrations that are insignificant in terms of dose contribution.

For purposes of calculating the DCGL, radionuclides of interest that were not detected were assumed present at their minimum detectable concentration (MDC). At their MDC, none of the radionuclides exceeded 10% of their respective screening DCGLs and therefore were not included in the DCGL calculation. There was some variability in relative radionuclide fractions when one sample was compared to another. Therefore, the most conservative calculated value,

21,000 dpm/100 cm², was selected as the gross activity DCGL. The radionuclide distribution assumed for this DCGL is shown in the following table.

Primary-to-Secondary System Leakage Gross Activity DCGL Radionuclide Distribution

Radionuclide	Activity Fraction	Surface Screening DCGL (dpm/100 cm ²)	Activity Fraction/DCGL	Fraction of DCGL ^a	DCGL Dose Contribution (mrem/yr)
⁶⁰ Co	1.14E-01	7.1E+03	1.60E-05	0.335	8.4
¹³⁷ Cs	8.86E-01	2.8E+04	3.17E-05	0.665	16.6
Totals:	1.00E+00	---	4.77E-05	1.000	25.0

Notes

^a This value is calculated by dividing the Activity Fraction/DCGL value for the radionuclide by the sum of the Activity Fraction/DCGL values for all the radionuclides.

1.3.2.2 Radiologically Controlled Area (RCA) DCGL

The gross activity DCGL of 7,500 dpm/100 cm² was developed primarily for application to interior surfaces of the Auxiliary Building and related radiologically controlled areas (RCAs) such as the Condensate Demineralizer Building. Samples from nine locations were collected to conservatively represent the radionuclide distribution found on the interior surfaces of the Auxiliary Building. The sample locations were not biased towards any particular group of Auxiliary Building systems, rooms, or elevations. Sample locations were randomly selected from a population of areas on the floors and walls in the Auxiliary Building where fixed surface contamination was detected. The samples were collected prior to remediation and sent to an offsite laboratory for analysis. The laboratory results were used to calculate a gross activity DCGL value for each sample.

Several radionuclides of interest were detected in each of the samples. The two radionuclides detected in all the samples were ⁶³Ni and ¹³⁷Cs. They accounted for the highest activity concentrations, ranging from 76 to 100% of the total activity, in all but one of the samples. In that sample, ³H had the highest activity concentration of 49%, compared to 44% for ⁶³Ni and ¹³⁷Cs combined. For all samples, alpha emitters were either not detected by sample analysis or were detected at activity concentrations that are insignificant in terms of dose contribution.

For purposes of calculating the DCGL, radionuclides of interest that were not detected were assumed present at their minimum detectable concentration (MDC). They were included in the DCGL calculation where their MDC exceeded 10% of their respective screening DCGLs. There was some variability in relative radionuclide fractions when one sample was compared to another. Therefore, the most conservative calculated value, 7,500 dpm/100 cm², was selected as the gross activity DCGL. The radionuclide distribution assumed for this DCGL is shown in the following table.

RCA Gross Activity DCGL Radionuclide Distribution

Radionuclide	Activity Fraction	Surface Screening DCGL (dpm/100 cm ²)	Activity Fraction/DCGL	Fraction of DCGL ^a	DCGL Dose Contribution (mrem/yr)
³ H	0.007	1.2E+08	5.57E-11	<0.001	<0.1
¹⁴ C	0.015	3.7E+06	3.94E-09	<0.001	<0.1
⁶⁰ Co	0.146	7.1E+03	2.06E-05	0.154	3.9
⁶³ Ni	0.207	1.8E+06	1.15E-07	0.001	<0.1
⁹⁰ Sr	0.003	8.7E+03	3.63E-07	0.003	<0.1
¹³⁷ Cs	0.611	2.8E+04	2.18E-05	0.163	4.1
²³⁸ Pu	<0.001	3.0E+01	7.83E-06	0.058	1.0
^{239/240} Pu	<0.001	2.8E+01	5.59E-06	0.041	1.0
²⁴¹ Pu	0.009	8.8E+02	9.89E-06	0.073	1.8
²⁴¹ Am	0.001	2.7E+01	5.20E-05	0.388	9.7
^{243/244} Cm	0.001	3.9E+01	1.60E-05	0.119	3.0
Totals:	1.000	---	1.34E-04	1.000	25.0

Notes

^a This value is calculated by dividing the Activity Fraction/DCGL value for the radionuclide by the sum of the Activity Fraction/DCGL values for all the radionuclides.

1.3.2.3 Containment Gross Activity DCGL

The gross activity DCGL of 22,000 dpm/100 cm² was developed for the Containment building interior. It was applied to the Pebble Springs Warehouse, which was used to store radwaste boxes filled with concrete debris from inside the Containment awaiting shipment. Samples were collected from representative surfaces in the Containment prior to surface remediation and were used to establish the radionuclide distribution of surface residual radioactivity. The samples were sent to an offsite laboratory for analysis and the laboratory results were used to calculate a gross activity DCGL value for each sample. Several radionuclides of interest were detected in each of the samples. The predominant beta-gamma emitters were found to be ⁶⁰Co and ¹³⁷Cs. Alpha emitters were either not detected by sample analysis or were detected at activity concentrations that are insignificant in terms of dose contribution. The radionuclide detected with the highest activity concentration was ¹³⁷Cs, which accounted for between 81 and 98% of the total activity of each sample. For purposes of calculating the DCGL, radionuclides of interest that were not detected were assumed present at their MDC. They were included in the DCGL calculation where their MDC exceeded 10% of their respective screening DCGLs. There was some variability in relative radionuclide fractions when one sample was compared to another. Therefore, the most conservative calculated value, 22,000 dpm/100 cm², was selected as the gross activity DCGL. The radionuclide distribution assumed for this DCGL is shown in the following table.

Containment Gross Activity DCGL Radionuclide Distribution

Radionuclide	Activity Fraction	Surface Screening DCGL (dpm/100 cm ²)	Activity Fraction/DCGL	Fraction of DCGL ^a	DCGL Dose Contribution (mrem/yr)
¹⁴ C	4.07E-03	3.7E+06	1.10E-09	< 0.001	0.0
⁶⁰ Co	5.19E-02	7.1E+03	7.30E-06	0.161	4.0
⁹⁰ Sr	1.12E-02	8.7E+03	1.29E-06	0.028	0.7
¹³⁴ Cs	4.86E-03	1.3E+04	3.74E-07	0.008	0.2
¹³⁷ Cs	9.25E-01	2.8E+04	3.30E-05	0.728	18.2
²⁴¹ Pu	2.97E-03	8.8E+02	3.37E-06	0.074	1.9
Totals:	1.00E+00	---	4.53E-05	1.000	25.0

Notes

^a This value is calculated by dividing the Activity Fraction/DCGL value for the radionuclide by the sum of the Activity Fraction/DCGL values for all the radionuclides.

1.3.2.4 Unity Rule Application

Radionuclide-specific screening DCGLs for volumetric residual radioactivity were used in a unity rule application for soil and gravel. The measured radioactivity concentration levels were compared to the corresponding radionuclide-specific screening DCGL value for one or more of the radionuclides, given in the table below. The unity rule was then applied to the sum of the radionuclides ratioed to their respective DCGLs.

Radionuclide-Specific Screening DCGLs

Radionuclide	Volumetric Screening DCGL (pCi/g)
³ H	1.1E+02
¹⁴ C	1.2E+01
⁶⁰ Co	3.8E+00
¹³⁷ Cs	1.1E+01

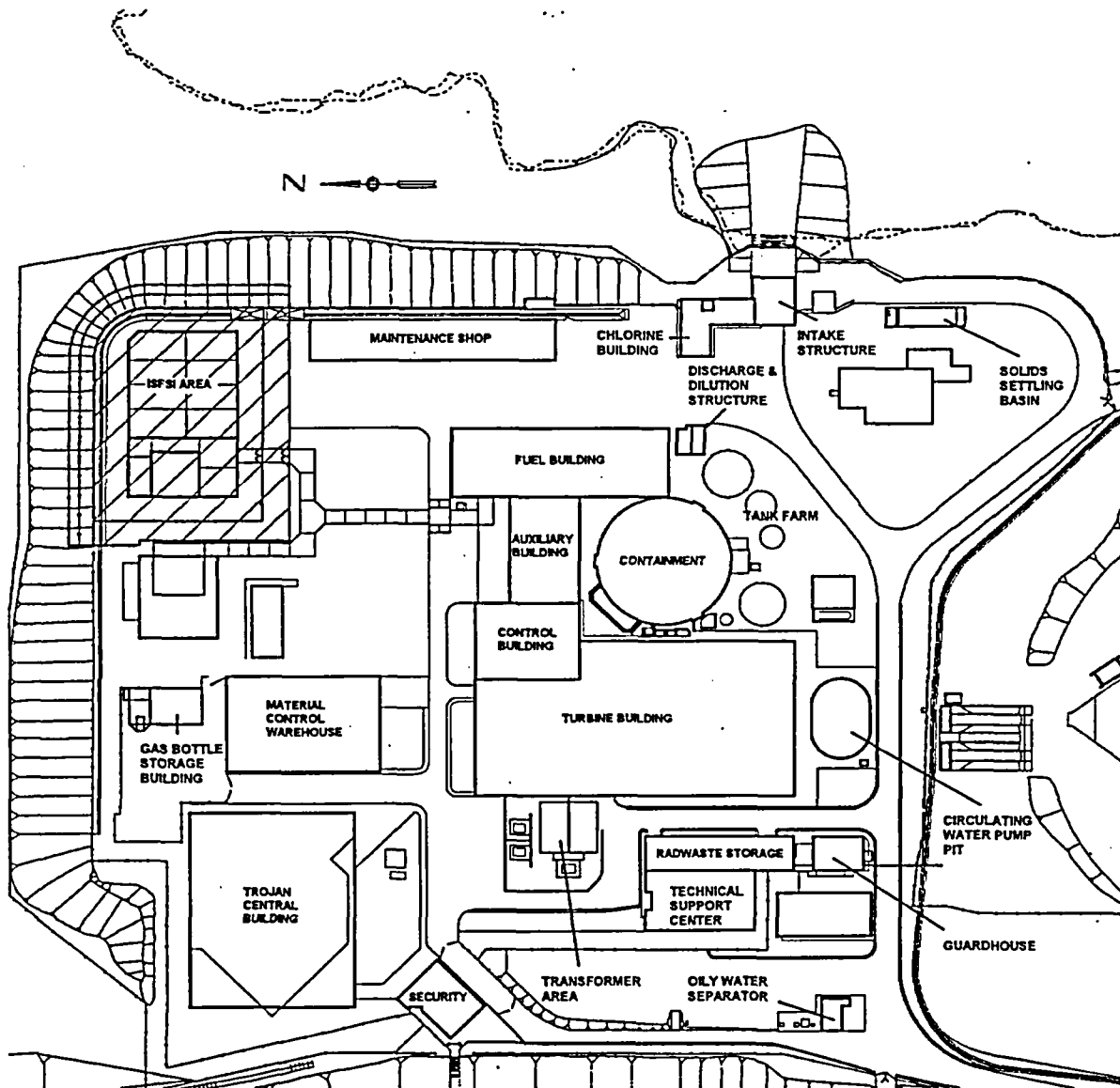
A surrogate ratio DCGL of 10 pCi/g ¹³⁷Cs was applied to the survey of the Pebble Springs Warehouse yard. It was developed using ¹³⁷Cs as a surrogate to represent the hard-to-detect radionuclides tritium, ¹⁴C, ⁶³Ni, and ⁹⁰Sr, for samples analyzed onsite using gamma spectroscopy. The surrogate ratio DCGL was developed based on the analysis of several Containment Building concrete samples.

1.3.2.5 Gross Gamma Activity Value

A gross gamma activity value of 9,000 cpm was developed for use in performing gamma scan measurements of the site grounds. This value corresponds to the volumetric screening DCGL for ⁶⁰Co and allowed the use of a sodium iodide (NaI) detector to measure gross gamma activity. An exposure rate at 10 cm above the surface was calculated and a weighted cpm/μR/hr value was

developed using count rate versus exposure rate information at the appropriate gamma energies. The weighted cpm/ μ R/hr was used to determine the gamma count rate equivalent to the volumetric screening DCGL for ^{60}Co . A background count rate was determined from a series of scan measurements of gravel, asphalt, and concrete areas collected around the base of the cooling tower. The total of the background count rate and the gamma count rate equivalent to the volumetric screening DCGL for ^{60}Co resulted in a gross gamma activity value of 9,000 cpm for a NaI detector.

Figure 1-1
Trojan Plant Layout



g:\figures\finalsurveyreport\figures\figure.1-3.dgn

2. FINAL SURVEY DESIGN

The final survey was designed and performed as described in the LTP, Section 4. The Data Quality Objectives (DQO) process was used to ensure that the final survey results were of sufficient quality to support the final decision. Support facilities and site grounds were divided into survey units of proper size, which were categorized and classified according to the type and potential for residual radioactivity. Instrumentation and survey methods, appropriate to the type of radiation being measured, were used to collect scan, static, and supplemental measurements. The measurements were collected in accordance with administrative and quality controls instituted to provide assurance of accurate results.

2.1 SURVEY UNITS

Support facilities and site grounds were divided into 74 survey units based on the physical characteristics, the potential for elevated residual radioactivity, and the size of the area with similar potential for residual radioactivity.

2.1.1 CATEGORY

Survey units were assigned to one of the following two categories based on the physical characteristics and the type of residual radioactivity present:

- Structures with surface residual radioactivity where a gross activity DCGL was applied. This type included structural floor, wall, and ceiling surfaces. There were 66 survey units in this category.
- Areas and materials with volumetric residual radioactivity where the radionuclide-specific screening DCGLs for volumetric residual radioactivity were applied. This type included the site grounds. There were eight survey units in this category.

2.1.2 CLASSIFICATION

Survey units were classified as Class 1, Class 2, or Class 3 based on the potential for residual radioactivity. Areas with residual radioactivity that exceeded the DCGL prior to remediation were divided into eight Class 1 survey units. Areas with residual radioactivity detectable above background levels, but that did not exceed the DCGL prior to remediation, were divided into 12 Class 2 survey units. Areas with residual radioactivity not expected to be detectable above background levels were divided into 54 Class 3 survey units.

The classification process incorporated the working hypothesis that all areas had a potential for residual radioactivity above the DCGL. This initial assumption meant that a survey unit was initially considered Class 1 unless a basis for classification as Class 2 or Class 3 was identified. Early in the final survey planning process, little or no characterization data were available. Elevated radiation levels from contaminated surfaces, components, and equipment prevented the collection of meaningful radiological data. Some surfaces were physically inaccessible.

During the course of decommissioning, the contaminated components and equipment were removed, surfaces were made accessible, and a substantial amount of characterization data was collected. The data, summarized in Table 2-2, showed that these areas could be properly classified as Class 2 or Class 3. This approach was consistent with that described in the LTP, in which areas are initially considered Class 1 areas unless a basis for classification as Class 2 or Class 3 is identified. Both scan and static measurement data collected during final survey confirmed the classification decisions made.

2.1.3 SURVEY UNIT SIZE

Survey units were sized to ensure that survey data points were relatively uniformly distributed among areas of similar potential for residual radioactivity. Survey units were designed to have relatively simple shapes unless an unusual shape was appropriate for the operational history of the area. Where possible, existing building characteristics such as horizontal and vertical structural supports, walls, and rooms were used to define the boundaries of the structure survey units. A similar approach was applied to the land area survey units.

Support facilities were divided into survey units ranging in size from 33 to 9,460 m². Class 1 structure survey units were 100 m² in floor area or less. Class 2 survey units were 417 m² in floor area or less. Class 3 survey units were 7,332 m² in floor area or less.

Site grounds were divided into survey units ranging in size from 300 to 21,694 m². Class 1 survey units were 1,551 m² in land area or less. Class 2 survey units were 4,856 m² in land area or less. Class 3 survey units were 21,694 m² in land area or less.

2.1.4 IDENTIFICATION NOMENCLATURE

Each survey unit was identified by a seven-digit identification code. The first digit represents the survey unit category. One of two category codes was used:

- S – structure with surface residual radioactivity
- G – ground/land area or materials with volumetric residual radioactivity

The next two digits represent the reference map identification code. Thirty-two reference map identification codes were used, as shown in the following table.

Reference Map Codes

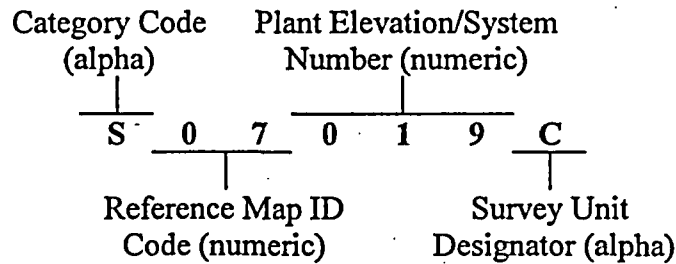
No.	Reference Map Code	No.	Reference Map Code
01	Containment Building Interior	15	Auxiliary Building (AB) Exterior
03	Maintenance Building Interior	16	Control Building (CB) Exterior
07	Condensate Demin Bldg Interior	17	Condensate Demin Bldg Exterior
11	Containment Building Exterior	21	Intake Structure
12	Turbine Building (TB) Exterior	22	Chlorine Building Interior
13	Maintenance Building Exterior	23	Guardhouse Interior
14	Fuel Building (FB) Exterior	24	Tech Support Center (TSC) Interior

Reference Map Codes (cont.)

No.	Reference Map Code	No.	Reference Map Code
25	Security Building Interior	38	Discharge & Dilution Structure
26	Trojan Central Bldg (TCB) Interior	41	Circulating Water Pump Pit
27	Materials Warehouse Interior	42	Transformers, Dividing Walls, & Equip
32	Chlorine Building Exterior	43	Oily Water Separator
33	Guardhouse Exterior	44	Gas Bottle Storage Building
34	TSC Exterior	45	Solids Settling Basin
35	Security Building Exterior	46	Pebble Springs Warehouse
36	TCB Exterior	51	Industrial Area Grounds
37	Materials Warehouse Exterior	52	Non-Industrial Area Grounds

The next three digits represent the structure or land area elevation from which the survey unit was accessed. The last digit is an alpha sequential survey unit designator that was assigned in sequential order of the survey unit being created. The following figure illustrates the survey unit identification code for the 3rd survey unit beginning at Elevation 19' of the Condensate Demineralizer Building interior.

Survey Unit Identification Nomenclature



2.2 INSTRUMENTATION

Portable and laboratory instrumentation capable of detecting the radiation types and energies of interest were selected, calibrated, and maintained for final survey data collection. Commercially available radiation detection and measurement instrumentation was selected based on reliable operation, detection sensitivity, operating characteristics, and expected performance in the field. Radioactive sources used for calibration purposes are traceable to the National Institute of Standards and Technology (NIST).

2.2.1 PORTABLE INSTRUMENTATION

Scan and static surface radioactivity measurements were performed using the Ludlum Model 2350-1 data logging survey meter with one of three types of Ludlum detectors: gas-flow proportional (GFP), Geiger-Mueller (G-M), or scintillation. Table 2-1 gives the model number and a description of the detectors used.

2.2.1.1 Calibration and Maintenance

Survey instruments were calibrated for the radiation types and energies of interest. The following table provides typical information on the calibration sources used.

Typical Portable Instrumentation Calibration and Check Sources

Source Description	Radiation of Interest	Source Geometry	Radio-nuclide	Source Activity	2 π Surface Emission Rate
Acrylic-backed, w/0.9 mg/cm ² mylar cover	beta	10 x 15 cm plate	⁹⁹ Tc	23,000 dpm	6,800 β /min/100 cm ²
Stainless steel-backed electro-plated Tc metal	beta	4.1 cm dia. disk	⁹⁹ Tc	20,000 dpm	12,000 β /min
Stainless steel-backed metal	gamma	2.5 cm dia. disk	¹³⁷ Cs	0.115 μ Ci	N/A

Radionuclide mixture ratios and varying energies were accounted for during calibration by using a calibration source with a conservative average energy as compared to the weighted average energy of the radionuclide mixture.

A total efficiency was established for each detector used to measure beta radiation. The total efficiency is the product of the instrument efficiency and the source (or surface) efficiency for a specified survey geometry or measurement technique. The instrument efficiency, i.e., the ratio between the net count rate of the instrument and the 2 π surface emission rate of a radiation source, was determined by counting the source with the detector in a fixed position from the source (reproducible geometry). A jig was used to create the reproducible geometry and a source to detector distance of 1 cm was normally used. A value of 0.5 was used for the source efficiency for smooth surfaces; a value of 0.3 for concrete scabbled surfaces. These values were established based on beta energies of the expected radionuclide distribution and on surface geometry considerations. The source efficiency for beta particle emission is the ratio between the number of radiation particles emerging from the measurement surface of the area being surveyed (the source) and the total number of radiation particles being released within that source per unit time.

2.2.1.2 Instrument Response

Instrument response was checked before and after instrument use each day. A check source was used that emitted the same type of radiation (i.e., beta or gamma) as the radiation being measured and that gave a similar instrument response (see the preceding table). The response check was performed using a specified source-detector alignment that could easily be repeated. If the instrument failed its response check, it was not used until the problem was resolved. Measurements made between the last acceptable response check and the failed check were evaluated and, if appropriate, discarded.

2.2.1.3 Minimum Detectable Concentration

A minimum detectable concentration (MDC) was determined for each instrument and scan and static measurement method that were used for survey data collection. Instruments used for scan measurements were capable of detecting radiation of interest to an MDC of less than 50% of the DCGL at a scan rate of 5 cm/sec for beta and 0.5m/sec for gamma. The exception to this was the Model 44-9 pancake GM detector, which typically could not achieve a scan MDC of less than the DCGL. Where this detector was used, the survey design prescribed compensatory measures that included using a lower scan rate (i.e., 3 cm/sec), limiting the size of the survey unit area, and/or increasing the number of static measurements. Instruments used for static measurements were capable of detecting radiation of interest to an MDC of less than 45% of the DCGL with a count time of one minute.

2.2.2 LABORATORY INSTRUMENTATION

On-site laboratory instruments were used to perform gamma spectroscopy of soil and gravel samples and gas proportional counting of removable surface radioactivity samples (smears). Removable surface radioactivity measurements were performed using the Tennelec Model LB5100 GFP alpha/beta counting system. Volumetric residual radioactivity measurements were made using the Canberra Genie-2000 spectroscopy counting system with an Ortec high-purity germanium detector. The laboratory instruments used are described in the table below.

Laboratory Instrumentation

	Tennelec Model LB5100	Genie-2000 w/Ortec Detector
Detector Type	GFP	Scintillation
Radiation Detected	beta	gamma
Measurement Type	removable surface radioactivity	volumetric radioactivity
Detector Description	57 mm dia. detector with 80 µg/cm ² mylar window	58 mm dia. x 79 mm long high-purity germanium
Background^a (cpm)	1 to 58	N/A
Efficiency (cnts/dis)	0.332 to 0.340	0.005 to 0.009 ^a
Count Time (min)	2	20
MDC	12 to 57 dpm/100 cm ²	0.053 to 0.076 pCi/g ^b

Notes

^a Values given represent a typical range of peak efficiencies per channel for energy lines of gamma-emitting radionuclides of interest (i.e., ⁶⁰Co and ¹³⁷Cs).

^b Values given represent a typical range of MDCs for gamma-emitting radionuclides of interest.

2.2.2.1 Calibration and Maintenance

Laboratory instruments were calibrated for the radiation types and energies of interest by counting a radionuclide standard and comparing the results with the actual concentration on the

certificate of calibration provided by the manufacturer of the radionuclide standard. The following table provides typical information on the radionuclide standards used.

Typical Laboratory Instrumentation Calibration Sources

Source Material	Radiation of Interest	Source Geometry	Source Density	Radionuclides of Interest	Source Activity
Sand	gamma	1L Marinelli	~1.9 g/cm ³	⁶⁰ Co	55 pCi/g
				¹³⁷ Cs	35 pCi/g
				²⁴¹ Am	82 pCi/g
Solid matrix	gamma	1L Marinelli	1.15 g/cm ³	⁶⁰ Co	84 pCi/g
				¹³⁷ Cs	55 pCi/g
				²⁴¹ Am	127 pCi/g
Stainless steel-backed metal	beta	4.1 cm dia. disk	N/A	¹³⁷ Cs	45,900 dpm
Stainless steel-backed metal	beta	4.1 cm dia. disk	N/A	¹³⁷ Cs	15,500 dpm

2.2.2.2 Daily Quality Control Counts

Quality Control (QC) counts were performed on laboratory instrumentation prior to use each day. A QC standard was used that emitted the same type of radiation (i.e., beta or gamma) in the same type of counting geometry as the radiation being measured. Count results were compared to the mean of a QC data set. The results were also graphed and reviewed for trends in detector performance. No count results fell outside the acceptable QC band and no negative trends were identified in instrument performance.

2.2.2.3 Minimum Detectable Concentration

Laboratory instruments used for removable surface radioactivity measurements were capable of detecting beta radiation to less than 1% of the DCGL with a two minute count time. Laboratory instruments used for gamma spectral analysis measurements were capable of detecting gamma-emitting radionuclides to an MDC of less than 5% of the DCGL with a count time of 20 minutes.

2.3 SURVEY METHODS

Survey methods, as described in the following sections, were applied to collect scan and static measurements of surface and volumetric residual radioactivity, and removable surface radioactivity measurements from structural surfaces.

2.3.1 SCAN MEASUREMENTS

Scan measurements were performed to locate radiation anomalies that might indicate elevated areas of residual radioactivity that require further investigation. The level of scan coverage was proportional to the potential for finding elevated areas of residual radioactivity based on the history of the survey unit.

Where no remediation had occurred, inaccessible surfaces or difficult to measure surfaces (e.g, inside cracks or small bore penetrations) were assumed to have the same level of residual radioactivity as that found on adjacent accessible surfaces. Accessible surfaces were surveyed the same as other structure surfaces. Where remediation had occurred, an approximation of the residual radioactivity on the inaccessible surface was made and the accessible surfaces were surveyed the same as other structure surfaces except that they were included in the scan coverage area when scanning was done at less than 100% coverage (i.e., Class 2 survey unit).

2.3.1.1 Scan Coverage

Scan measurements of Class 1 survey units were performed over 100% of the surface/land area. Scan measurements of Class 2 survey units were performed over 10 to 50% of the surface/land area. For Class 3 survey units, scan measurements were performed over 10% or less of the surface/land area. In Class 2 and Class 3 survey units, those areas with the highest potential for elevated residual radioactivity (e.g., walkways, corners, remediated surfaces), based on professional judgment, were selected for scanning. The percent of scan coverage was determined based on the number and size of the selected areas.

2.3.1.2 Surface Residual Radioactivity

Structure surfaces were scanned for beta-emitting radionuclides. Typically, the detector was held less than 2 cm from the surface and moved at 5 cm/sec over an area of one square meter. Once the selected area was scanned, the latched value was electronically entered into the data logger memory. As a matter of practice, the instrument ratemeter alarm was usually set at approximately 0.8 times DCGL. The audible alarm would alert the surveyor that radiation levels are approaching the DCGL. The surveyor would respond by identifying the size of the area exceeding the alarm setpoint, mark the location in the field, and then attempt to capture the maximum radiation level within the elevated area. An investigation was performed where the maximum radiation level exceeded the investigation level.

Normally, the Ludlum Model 43-68 GFP detector with the data logger in ratemeter latching mode was used. For areas with size or geometry constraints, the Ludlum Model 43-116-1 GFP detector or Model 44-9 pancake G-M detector was used.

Surfaces were not scanned for alpha-emitting radionuclides. Radiological characterization data indicated that alpha emitters were either not present or were present at activity concentrations that were insignificant in terms of dose contribution. Therefore, alpha-specific measurements of surface residual radioactivity were not performed.

2.3.1.3 Volumetric Residual Radioactivity

Land areas were scanned for gamma-emitting radionuclides. The Ludlum Model 44-10 NaI scintillation detector with the data logger in ratemeter latching mode was used. Typically, the detector was held close to the surface, usually less than 6 cm, and moved in a back and forth (left to right, right to left) while the surveyor walked slowly over the area at a scan rate of approximately 0.5m/sec in a systematic pattern. Once the area was scanned, the latched value was electronically entered into the data logger memory. As a matter of practice, the instrument ratemeter alarm was usually set at the gross activity value of 9,000 cpm (see Section 1.3.2.5). The audible alarm would alert the surveyor that radiation levels are approaching the DCGL. The surveyor would mark the location and then attempt to capture the maximum radiation level within the elevated area. A soil or gravel sample was collected at or near the location and an investigation was performed where the volumetric residual radioactivity in the soil or gravel sample exceeded the DCGL.

2.3.2 STATIC MEASUREMENTS

Static measurements of surface and volumetric residual radioactivity were collected at a frequency and at representative locations throughout the survey unit such that a statistically sound conclusion regarding the radiological condition of the survey unit could be developed.

2.3.2.1 Surface Residual Radioactivity

Static measurements to detect beta-emitting surface residual radioactivity on structure and plant system surfaces were normally collected using the Ludlum Model 43-68 GFP detector with the data logger in scaler mode. For areas with access or geometry constraints, the Ludlum Model 43-116-1 GFP detector, Model 44-9 pancake G-M detector, or Model 44-116 beta scintillation detector was used. For each discrete measurement, the detector was placed on or near the surface to be measured, a one-minute count was taken, and the value was electronically entered into the data logger memory.

2.3.2.2 Volumetric Residual Radioactivity

Soil and gravel samples were collected from areas that measured approximately 30 cm x 30 cm and taken to a depth of no more than 15 cm. A sufficient volume of material was collected at each sample location to fill a 1-liter Marinelli container. These samples were quantitatively analyzed onsite by gamma spectroscopy for gamma-emitting radionuclides of interest. Where required by the survey design, an additional sample of 100 ml in volume was collected at each static measurement location and quantitatively analyzed by an offsite vendor for tritium and ¹⁴C.

2.3.2.3 Number of Measurements

To simplify the final survey process and to ensure conservatism without an associated unreasonable expenditure of resources, a minimum number of 30 static measurements per survey unit were collected. This number of measurements provided a sample population of sufficient size to assure statistical confidence in the conclusions drawn from the survey data.

2.3.2.4 Measurement Locations

Measurement locations in Class 1 and Class 2 survey units were selected using a random-start systematic spacing method based on a reference coordinate system appropriate for the survey unit. Scale drawings, maps, or photographs of the survey unit were prepared, along with an overlay of the reference coordinate system. A random number generator provided the coordinates of the starting point. Subsequent measurement locations were distributed around the starting point in a systematic pattern across the survey unit area. In some cases, this led to more than the minimum number of 30 static measurements being collected.

For Class 3 survey units, measurement locations were selected using the random selection process (i.e., the reference coordinate system and a random number generator). A random number generator provided the coordinates of each measurement location.

Measurement locations that did not fall within the survey unit area or that could not be surveyed due to health and safety considerations were replaced with other measurement locations determined using the random selection process.

2.3.3 SUPPLEMENTAL MEASUREMENTS

Supplemental measurements to detect removable beta-emitting surface residual radioactivity on structure and plant system surfaces were collected at static measurement locations. These measurements (i.e., smears) were collected to verify removable surface radioactivity was no more than 10% of the gross activity DCGL. Smears were counted onsite using the Tennelec Model LB5100.

2.3.4 MEASUREMENT LOCATION IDENTIFICATION

Measurement locations were clearly identified and documented to ensure they could be relocated if necessary. Actual measurement locations were permanently marked in the field and on survey maps. A unique number identifies each measurement location. The number convention, described in Section 2.4.4, allows survey data to be referenced to specific measurement locations identified on the photographs, drawings, or maps of the survey unit.

Physical gridding was used where practical and useful. It provided a mechanism for referencing scan measurements to a specific location. Permanent marker was used to mark the physical grid layout. The basic grid pattern used was a one-meter square grid.

2.4 SURVEY PERFORMANCE

2.4.1 SAMPLE HANDLING

Smear and soil/gravel samples collected for laboratory analysis were tracked. When sample custody was transferred (e.g., when samples were sent to the lab for analysis), a sample tracking record accompanied the sample for tracking purposes. The sample tracking (or chain of custody)

record documented the custody of samples from the point of collection until final results were obtained.

2.4.2 DATA INVESTIGATION

Locations, identified by scan or static measurements, with residual radioactivity that exceeded the DCGL were marked and investigated. Scan measurements were performed over 100 percent of the area being investigated. Static measurements in the form of scalar or integrated counts were performed at locations with the highest concentration of residual radioactivity. Where gamma scan measurements were performed, the gross activity value of 9,000 cpm (see Section 1.3.2.5) was used to identify areas that may have contained elevated volumetric residual radioactivity. A soil or gravel sample was collected at locations that exceeded the gross activity value and the results reviewed to determine whether the residual radioactivity exceeded the DCGL and required an investigation.

Two standard operating practices were found to cause significant overestimates in the level of residual radioactivity at locations identified for investigation. These practices are: (1) using gross cpm instead of net cpm to convert to dpm, and (2) converting the area of elevated residual radioactivity to 100 cm² when the measured area is much smaller than that. For example, assuming an instrument background of 35 cpm and an efficiency of 0.1, area with a "true" level of residual radioactivity of 5,000 dpm distributed over 15 cm² (the active area of a pancake G-M detector) yields a converted value of over 35,000 dpm/100 cm². To avoid such significant overestimates, instrument background was subtracted from measurements exceeding the investigation level and an area correction was applied to elevated areas less than 100 cm² in size.

The results of the data investigations are summarized in Table 3-2. The details of the investigations are included in survey unit summary reports (see Appendices D and E). Depending on the results of the investigation, the identified areas within the survey unit were remediated, reclassified, and/or resurveyed.

2.4.3 DATA RECORDING

Measurement data were corrected for instrument efficiency, source efficiency, detector area, and measurement size as applicable, and recorded in units appropriate for comparison to the DCGL, with the exception of gamma scan measurements, which remained in uncorrected units of gross cpm. The recording units were dpm/100 cm² for surface residual radioactivity and pCi/g for volumetric residual radioactivity. Measured numerical values were recorded and included values below the MDC. Instrument and material backgrounds were generally not subtracted from residual radioactivity measurements gathered using portable instrumentation (see exception in Section 2.4.2). Instrument background was subtracted from measurements analyzed using laboratory instrumentation.

Measurement results stored as final survey data constitute the final survey of record and are included in the data set for each survey unit. The data were used for calculations to determine compliance with the site release dose criterion. The affected data were stored as characterization data where a survey unit was remediated and/or reclassified during final survey.

2.4.4 DATA MANAGEMENT

The Survey Data Management System (SDMS) was used to store and process survey data. The SDMS is an electronic database that contains the final survey data and constitutes the quality record. Administrative controls for maintaining data integrity were incorporated into the software design. SDMS applications were tested as part of two separate tests: factory acceptance testing performed by the vendor and site acceptance testing performed by the Final Survey organization. A test plan and procedure were developed and documented for each functional module. Documented test results include the acceptance test objectives, test results, test discrepancies, and corrective actions taken to resolve the discrepancies.

Raw survey data captured in the Ludlum Model 2350-1 data logger were downloaded, electronically converted to recording units, and uploaded to the SDMS. Other data, such as laboratory data, were manually entered into the SDMS for analysis.

For electronic storage and retrieval purposes, each survey measurement is identified by a unique 15-digit code. The first seven digits are the survey unit Identification (ID) code (see Section 2.1.4). The last eight digits are the measurement ID code. The first two digits of the measurement ID code identify the type of measurement, as shown in the following table, and the last six digits are the unique measurement location ID.

Measurement Type Codes

Type Code	Type Description
01	Static surface beta
04	Removable beta smear
06	Soil/sand gamma spectroscopy
08	Surface scanning beta
09	Surface scanning gamma
11	Tritium sample
12	¹⁴ C sample

Records of survey data include the surveyor identification, measurement type, measurement location, measurement instrumentation used, measurement results, and time and date measurement was taken.

2.4.5 QUALITY CONTROL MEASUREMENTS

Quality Control (QC) measurements were performed to identify, assess, and monitor measurement error and uncertainty attributable to measurement methods or analytical procedures used in the survey data collection process. Two types of QC measurements were performed on a routine basis: QC checks and repeat measurements. A third type of QC measurement, duplicate sample analysis, was performed but is relevant only to the soil/gravel areas. Duplicate sample analysis is performed for volumetric (not surface) residual radioactivity. Acceptance criteria were met and no discrepancies were identified.

2.4.5.1 QC Checks

Seven direct observations of survey set-up and close-out activities and scan and static measurements were performed. The observations were reviewed with the surveyors and follow-up actions such as on-the-spot correction, surveyor refresher training, changes in work process, development of good practices, and procedural corrections and improvements were taken.

2.4.5.2 QC Repeat Measurements

A set of fifteen repeat measurements was collected at a single static measurement location with measured residual radioactivity of 15,000 dpm/100 cm². The mean value was calculated and compared to the original measurement value. Measurement accuracy was deemed acceptable where the original measurement fell within $\pm 20\%$ of the mean of the repeat measurement data set. The original measurement for the selected measurement location met the QC acceptance criterion.

Repeat measurements are collected at static measurement locations with residual radioactivity greater than 5,000 dpm/100 cm². Only the single location was eligible (i.e, had residual radioactivity greater than 5,000 dpm/100 cm²). No other static measurement locations were eligible.

2.4.5.3 Duplicate Sample Analysis

A matrix-spiked sample was analyzed and the results compared to analysis results provided by an independent laboratory. For QC purposes, matrix spiked samples were used in lieu of split samples, due to the relatively low and non-uniform levels of volumetric residual radioactivity expected in the bulk material samples. Blind soil samples containing radionuclides of interest, specifically ⁶⁰Co, ¹³⁴Cs, and ¹³⁷Cs, at environmental levels (0.1 to 1.0 pCi/g) were sent to Trojan for sample analysis by gamma spectroscopy. The analysis results were sent to the independent laboratory, who compared Trojan's analysis results to their analysis results. Measurement accuracy was deemed acceptable where Trojan's measured value fell within $\pm 20\%$ of independent laboratory's reported value. The results met the QC acceptance criterion.

2.4.6 PROCEDURES

Final survey activities were implemented and controlled using approved plant procedures. A list of those procedures is given in Table 2-3.

2.4.7 TECHNICAL BASIS DOCUMENTS

Calculations and memoranda were prepared to document methods that were used, how the methods were derived, underlying assumptions for decisions that were made, the basis for deviations, and other information that warranted documentation. The technical basis documents developed to support/conduct the final survey of support facilities and site grounds are listed in the following table.

Calculations

Number	Title
FSC 2001-01	Gross Activity DCGL for Containment
FSC 2001-03	Remediation Levels for the Containment Gross Activity DCGL
FSC 2001-04	Surrogate Ratio and Gross Activity DCGLs for Pebble Springs
FSC 2002-03	Gross Activity DCGL for the Auxiliary Building
FSC 2002-04	Gross Activity DCGL for Systems, Structures, and Components Impacted Due to Primary to Secondary System Leakage
FSC 2002-05	Area Factors for Use with the Auxiliary Building Gross Activity DCGL
FSC 2002-07	Remediation Levels for the Auxiliary Building Gross Activity DCGL
FSC 2002-08	Remediation Levels for the Primary to Secondary Affected Areas DCGL
FSC 2003-03	Site Specific Scabbled Concrete Source Efficiency Factor
FSC 2003-06	Area Factors for Use with the Primary to Secondary Affected Areas DCGL
FSC 2004-02	Remediation Level for Soil

Memoranda

Number	Title
FS-008-02	Volumetric DCGLs for Open Land Areas Inside the Industrial Area
FS-009-02	Summary of Building Exterior Characterization Surveys
FS-016-02	Trigger Level for Evaluation of TRUs and HTD Radionuclides in Soil
FS-022-02	Volumetric DCGLs for Open Land Areas Inside the Industrial Area (Rev. 1)
FS-004-03	Tritium Sample Results for the Exterior Wall of the Containment
FS-018-03	Beta Surface Scans with a Pancake GM Survey Instrument
FS-019-03	Scan MDC Evaluation for Auxiliary Building Survey Unit Designs
FS-009-04	Surveying Difficult to Access Areas

2.4.8 CONTROL OF VENDOR SUPPLIED SERVICES

Quality-related services, shown in the following table, were procured from qualified vendors whose internal Quality Assurance (QA) program was subject to approval in accordance with the Trojan QA Program.

Vendor Supplied Services

Vendor	Service
Ludlum Measurements, Inc.	Instrument repair and calibration services
Isotope Products Laboratories	NIST-traceable calibration and check sources
Thermo Nutech	Characterization sample analysis
Duke Engineering	Characterization/final survey sample analysis
SAIC	Characterization sample analysis
Analytics, Inc.	Environmental cross-check sample analysis

2.4.9 TRAINING

Final survey data collection and technical support staff members were initially trained and qualified in procedures performed by them, and received annual refresher training thereafter. Surveyors completed scan and static survey practical training on a semi-annual basis. The following table lists the lesson modules developed and used to provide the training.

Final Survey Training Program

Module	Title
FS-S-11-LP	Final Survey Plan Overview
FS-S-22-LP	Survey Unit Design
FS-S-33-LP	Survey Instruments/Data Collection
FS-S-55-LP	Scan and Static Survey Practical
FS-S-66-LP	Survey Data Processing
FS-S-77-LP	SDMS Overview
FS-S-88-LP	Annual Refresher Training

Table 2-1

Portable Instrumentation Radiation Detectors

Ludlum Detector Model	43-68	43-68(S) ^a	43-116-1	44-9	44-10	44-116
Detector Type	GFP			G-M	Scintillation	Scintillation
Radiation of Interest	beta			beta	gamma	beta
Measurement Type	scan, static			scan, static	scan	static
Detector Area	126 cm ²		54 cm ²	15 cm ²	2" x 2" ^b	126 cm ²
Window Thickness	0.8 mg/cm ²			1.7 mg/cm ²	N/A	1.2 mg/cm ²
Window Material	mylar			mica	N/A	mylar
Background (cpm) ^{c,d}	180 to 290		100 to 130	30 to 40	3,700 to 6,400	190 to 410
Instrument Efficiency (cnts/dis) ^d	0.36 to 0.45		0.38 to 0.42	0.14 to 0.24	N/A	0.24 to 0.39
Source Efficiency (cnts/dis)	0.50	0.30	0.50		N/A	0.50
Total Efficiency (cnts/dis) ^d	0.18 to 0.23	0.11 to 0.14	0.19 to 0.21	0.07 to 0.12	N/A	0.12 to 0.20
Count Time (min)	1					1
Static MDC (dpm/100 cm ²) ^d	300 to 350	510 to 580	490 to 580	1,850 to 3,320	N/A	340 to 610
Scan MDC (dpm/100 cm ²) ^{d,e}	690 to 820 ^f	1,180 to 1,340 ^f	2,170 to 2,490 ^g	5,740 to 10,780 ^h	3.9 to 5.1 ⁱ	N/A

Notes

^a (S) denotes detector used with concrete scabbled surface source efficiency.

^b Dimensions given are for crystal diameter and thickness (i.e., 51 mm dia. x 51 mm long).

^c Background count time is 1 minute.

^d A range of values is given where multiple detectors were used.

^e Scan MDC assumes 5 cm/sec scan rate.

^f Assumes a 8.8 cm detector width for an equivalent count time of 0.03 min.

^g Assumes a 2.5 cm detector width for an equivalent count time of 0.008 min.

^h Assumes a 4.4 cm detector width for an equivalent count time of 0.015 min.

ⁱ Scan MDC for soil geometry, in pCi/g, is calculated using a manufacturer reported detector ¹³⁷Cs sensitivity of 900 cpm per μR/hr, and a MicroShield-determined conversion factor of 0.266 pCi/g ¹³⁷Cs per μR/hr.

Table 2-2

Summary of Operational Survey Data

Survey ID Code ^a	Description	Operational Survey Results ^b (dpm/100 cm ²)			Class		
		Coverage ^c	Total	Removable	1	2	3
Support Facility Exteriors							
S11045A	Containment Bldg Walls, Buttresses, & Dome	<5%	≤ 5,000	<1,000			x
S12045A	TB Lower North Exterior Wall	<5%	≤ 5,000	<1,000			x
S12045B	TB West Exterior Walls	<5%	≤ 5,000	<1,000			x
S12045C	TB Lower South & East Exterior Walls	<5%	≤ 5,000	<1,000			x
S12063A	TB Upper North Exterior Wall	<5%	≤ 5,000	<1,000			x
S12063B	TB Upper West Exterior Walls	<5%	≤ 5,000	<1,000			x
S12063C	TB Upper South & East Exterior Walls	<5%	≤ 5,000	<1,000			x
S12116A	TB Upper East Exterior Wall	<5%	≤ 5,000	<1,000			x
S12116B	TB Lower (Turbine Bay) Roof	<5%	≤ 5,000	<1,000			x
S12157A	TB Upper Roof	<5%	≤ 5,000	<1,000			x
S13045A	Maintenance Bldg Exterior Walls and Patio	<5%	≤ 5,000	<1,000			x
S13059A	Maintenance Bldg Roof (excluding Patio)	<5%	≤ 5,000	<1,000			x
S14045A	FB Lower & Radwaste Annex N & W Ext Walls	<5%	≤ 5,000	<1,000			x
S14045B	FB Lower & Radwaste Annex E Exterior Walls	<5%	≤ 5,000	<1,000			x
S14045C	FB South Exterior Walls	<5%	≤ 5,000	<1,000			x
S14063A	FB Upper North & West Exterior Walls	<5%	≤ 5,000	<1,000			x
S14063B	FB Upper East Exterior Wall	<5%	≤ 5,000	<1,000			x
S14138A	FB, AB, CB, & Radwaste Annex Roofs	10%	≤ 5,000	<1,000			x
S15045A	AB Lower North Exterior Wall	<5%	≤ 5,000	<1,000			x
S15063A	AB Upper North Exterior Wall	<5%	≤ 5,000	<1,000			x
S16045A	CB Lower North & East Exterior Walls	<5%	≤ 5,000	<1,000			x
S16063A	CB Upper North & East Exterior Walls	<5%	≤ 5,000	<1,000			x
S17045A	Cond Demin Bldg Exterior Walls & Roof	<5%	≤ 5,000	<1,000			x
S21023A	Intake Structure Exterior	<5%	≤ 5,000	<1,000			x
S32045B	Chlorine Bldg Ext Walls, Roof, & Guard Tower	<5%	≤ 5,000	<1,000			x
S33045A	Guardhouse Exterior Walls, Roof, & Stairs	<5%	≤ 5,000	<1,000			x
S34045A	TSC Exterior Walls, Stairwells, & Roof	<5%	≤ 5,000	<1,000			x
S35045A	Security Building Exterior Walls & Roof	<5%	≤ 5,000	<1,000			x
S36045A	TCB East & North Exterior Walls	<5%	≤ 5,000	<1,000			x
S36045B	TCB South & West Exterior Walls	<5%	≤ 5,000	<1,000			x
S36089A	TCB Roof	<5%	≤ 5,000	<1,000			x
S37045A	Materials Warehouse Exterior Walls	<5%	≤ 5,000	<1,000			x
S37074A	Materials Warehouse Roof	<5%	≤ 5,000	<1,000			x
S38045B	Discharge & Dilution Structure Exterior	<5%	≤ 5,000	<1,000			x
S41029A	Circ Water Pmp Pit Walls, Flr, Grating, & Equip	<5%	≤ 5,000	<1,000			x
S42045A	Transformers, Dividing Walls, and Equipment	<5%	≤ 5,000	<1,000			x
S43020A	Oily Water Separator (formerly P62065A)	10%	≤ 5,000	<1,000		x	
S44045B	Gas Bottle Storage Building Ext Walls & Roof	<5%	≤ 5,000	<1,000			x
S45026A	Solids Settling Basin	<5%	≤ 5,000	<1,000			x
Support Facility Interiors							
S01025A	Cont Elev 25' Tendon Gallery East Half	<5%	≤ 15,000	<1,000		x	
S01025B	Cont Elev 25' Tendon Gallery West Half	<5%	N/A ^d	<1,000		x	
S03045A	Maintenance Bldg Tool Room & Carpenter Shop	<5%	≤ 5,000	<1,000		x	
S03045B	Maintenance Bldg Machine Shop	<5%	≤ 5,000	<1,000			x
S03045C	Maintenance Bldg Interior	7%	≤ 5,000	<1,000			x

Table 2-2

Summary of Operational Survey Data

Survey ID Code ^a	Description	Operational Survey Results ^b (dpm/100 cm ²)			Class		
		Coverage ^c	Total	Removable	1	2	3
Support Facility Interiors (cont.)							
S21023B	Intake Structure Interior	10%	≤ 5,000	<1,000			x
S22045A	Chlorine Bldg Interior	<5%	≤ 5,000	<1,000			x
S23032A	Guardhouse Interior	10%	≤ 5,000	<1,000			x
S24038A	TSC Interior	<5%	≤ 5,000	<1,000			x
S25045A	Security Building Interior	<5%	≤ 5,000	<1,000			x
S26045A	TCB Interior (less HP Office & 3rd Flr E Wall)	<5%	≤ 5,000	<1,000			x
S26045B	TCB Health Physics/Dosimetry Office	10%	≤ 5,000	<1,000		x	
S26073A	TCB 3rd Floor East Interior Wall	<5%	≤ 5,000	<1,000			x
S27045A	Materials Warehouse Interior (less I&E Shop)	<5%	≤ 5,000	<1,000			x
S27045B	Materials Warehouse I&E Shop	<5%	≤ 5,000	<1,000			x
S38045A	Discharge & Dilution Structure Interior	10%	≤ 5,000	<1,000			x
S44045A	Gas Bottle Storage Bldg Interior Walls & Ceiling	<5%	≤ 5,000	<1,000			x
S46025A	Pebble Springs Warehouse	<5%	≤ 5,000	<1,000			x
Condensate Demineralizer Building Interior							
S07019A	Elev.19' Floor/Lower Walls, Col B to C & 5 to 8	100%	≤ 10,000	<1,000	x		
S07019B	Elev 19' Floor/Lower Walls, Col B to C & 2 to 5	100%	≤ 10,000	<1,000	x		
S07019C	Elev 19' Floor/Lower Walls, Col A to B & 5 to 8	100%	≤ 8,000	<1,000	x		
S07019D	Elev 19' Floor/Lower Walls, Col A to B & 2 to 5	100%	≤ 30,000	<1,000	x		
S07019E	Elev 19' Backwash Tank Area	70%	≤ 5,000	<1,000			x
S07025A	Elev 19' Upper Walls & Ceiling	60%	≤ 5,000	<1,000			x
S07032A	Elev 32' Mid-Level Floor, Walls, Ceiling	75%	≤ 5,000	<1,000			x
S07045A	Elev 45' Floor, Walls, & Ceiling	70%	≤ 5,000	<1,000			x
S07045B	Elev 45' Crane & Trolley Rails	45%	≤ 8,000	<8,000	x		
Site Grounds							
G51038A	Concrete Block Storage Area	<5%	N/A ^d	N/A ^d			x
G51045A	Balance of Industrial Area Grounds	<5%	N/A ^d	N/A ^d			x
G51045B	Tank Farm Yard Area #1	<5%	N/A ^d	N/A ^d			x
G51045C	SE Industrial Yard Area #1	50%	N/A ^d	N/A ^d	x		
G51045D	SE Industrial Yard Area #2	50%	N/A ^d	N/A ^d	x		
G51045E	SE Industrial Yard Area #3	50%	N/A ^d	N/A ^d			x
G51045F	Tank Farm Yard Area #2	50%	N/A ^d	N/A ^d	x		
G52025A	Pebble Springs Warehouse Yard	<5%	N/A ^d	N/A ^d			x

Notes:

^a See Section 2.1.4 for description of survey ID code nomenclature.

^b Survey results are for beta measurements reported to nearest 1,000 dpm/100 cm² and represent pre-remediation values.

^c Beta measurements performed over structure surfaces; gamma measurements performed over land areas.

^d Survey data not available as part of survey unit release record.

Table 2-3

Final Survey Procedures

Number	Title
TPP 14-24	Transfer of Turnover Units
TPP 16-1	Material/Service Procurement and Control Process <i>(for purchasing final survey materials and services)</i>
TPP 18-4	Trojan Nuclear Plant Quality Assurance Records Management Program <i>(for final survey quality records processing)</i>
TPP 18-9	Trojan Calculations <i>(for creating technical basis documents)</i>
TPP 18-10	Control of Quality-Related Computer Programs <i>(for SDMS revision validations)</i>
TPP 20-40	Control of Areas Surveyed for Final Site Release
TPP 22-1	Trojan Training Program <i>(for documenting final survey staff training)</i>
RP 95	Ludlum M2350-1 Data Logger Calibration Procedure <i>(for data logger electronic calibrations/checks only)</i>
RP 159	Conduct of Portable/Semi-Portable Radiation Protection Instrument Program <i>(for instrument tagging and calibration sticker)</i>
RP 450	Final Survey Administrative and Quality Controls
RP 451	Final Survey Unit Design
RP 452	Final Survey Data Collection
RP 453	Final Survey Data Processing
RP 454	Final Survey Background Reference Areas
RP 455	Final Survey Quality Control Measurements
RP 456	Control & Operation of Data Logger Survey Instruments
RP 457	Development and Application of Derived Concentration Guideline Levels
RP 458	Final Survey Remediation Levels and ALARA Evaluations
RP 459	Final Survey Instruments Calibration Program
RP 460	Final Survey Data Management
RP 461	Groundwater Sample Collection
RG 20-10	SDMS Applications Instructions
CL 161	LB5100 Planchet Counting System Calibration Procedure
LI 162	LB5100 Planchet Counting System Operation

3. FINAL SURVEY RESULTS

Final survey scan, static, and supplemental data were collected from support facilities and site grounds. Final survey data collection began in July 2001 and was completed in November 2004. Scan measurements were performed over approximately 11,000 m² and a total of 2,364 static measurements were collected as final survey data. Table 3-1 summarizes the final survey results. In addition, 1,627 supplemental removable surface radioactivity measurements (or smears) were collected, with results all less than 1,000 dpm/100 cm². Four data investigations were performed of nine areas identified by scan and static measurements with elevated residual radioactivity. The nine areas represent a total of approximately 1 m² of surface area with residual radioactivity above the DCGL. The results of the data investigations are summarized in Table 3-2. A detailed summary of final survey data for each survey unit is given in the survey unit summary reports in Appendices B through E. Scan measurement data are provided in the Supplement. Measurement results given in the following sections are for direct surface beta measurements, unless otherwise noted.

3.1 SUPPORT FACILITY EXTERIORS

The support facility exteriors comprise one Class 2 survey unit and 38 Class 3 survey units. Scan measurements were performed over 891 m² and a total of 1,276 static measurements were collected. No areas of elevated residual radioactivity were identified.

The surface area of the Class 2 survey unit (S43020A) was 397 m². Scan measurements were performed over 30% of the surface area with results ranging from 1,500 to 3,500 dpm/100 cm². Static measurements were collected from 30 locations, with results ranging from 1,800 to 3,200 dpm/100 cm². The average measured value was 2,200 dpm/100 cm².

For the Class 3 survey units, the surface area of each survey unit ranged from 173 to 9,460 m². Scan measurements were performed over 0 to 7% of the surface area, with results ranging from 680 to 3,800 dpm/100 cm². Static measurements were collected from 30 to 90 locations in each survey unit. Static measurement results ranged from 490 to 4,300 dpm/100 cm², with average measured values ranging from 810 to 2,300 dpm/100 cm².

3.2 SUPPORT FACILITY INTERIORS

The support facility interiors comprise four Class 2 survey units and 14 Class 3 survey units. Scan measurements were performed over 1,509 m² and a total of 540 static measurements were collected. No areas of elevated residual radioactivity were identified.

For Class 2 survey units, the surface area of each survey unit ranged from 266 to 984 m². Scan measurements were performed over 11 to 15% of the surface area, with results ranging from 740 to 1,800 dpm/100 cm². Static measurements were collected from 30 locations in each survey unit, with results ranging from 500 to 1,600 dpm/100 cm². Average measured values ranged from 920 to 1,100 dpm/100 cm².

For Class 3 survey units, the surface area of each survey unit ranged from 134 to 7,332 m². Scan measurements were performed over 2 to 10% of the surface area, with results ranging from 720 to 2,600 dpm/100 cm². Static measurements were collected from 30 locations in each survey unit. Static measurement results ranged from 540 to 2,300 dpm/100 cm², with average measured values ranging from 720 to 1,300 dpm/100 cm².

3.3 CONDENSATE DEMINERALIZER BUILDING INTERIOR

The Condensate Demineralizer Building interior comprises five Class 1 survey units and 4 Class 2 survey units. Scan measurements were performed over 1,109 m² and a total of 284 static measurements were collected. Eight areas of elevated residual radioactivity were identified in three survey units. Data investigations revealed less than 0.1 m² of surface area with residual radioactivity above the DCGL, and radioactivity levels up to 16,000 dpm/100 cm². No action was required in two survey units where radioactivity levels were determined to be below the DCGL. The EMC was applied to the remaining survey unit with areas of residual radioactivity above the DCGL.

For Class 1 survey units, the surface area of each survey unit ranged from 33 to 175 m². Scan measurements were performed over 100% of the surface area, with results ranging from 830 to 1,600 dpm/100 cm². Static measurements were collected from 30 to 34 locations in each survey unit, with results ranging from 580 to 15,000 dpm/100 cm². Average measured values ranged from 820 to 2,300 dpm/100 cm².

For Class 2 survey units, the surface area of each survey unit ranged from 585 to 1,609 m². Scan measurements were performed over 10 to 15% of the surface area, with results ranging from 770 to 3,100 dpm/100 cm². Static measurements were collected from 30 to 34 locations in each survey unit. Static measurement results ranged from 520 to 2,500 dpm/100 cm², with average measured values ranging from 870 to 1,200 dpm/100 cm².

3.4 SITE GROUNDS

The site grounds comprise three Class 1 survey units, three Class 2 survey units, and two Class 3 survey units. Scan measurements were performed over 7,667 m² and a total of 324 static measurements were collected. A single area of elevated residual radioactivity was identified. Data investigations revealed approximately 1 m² of land area with residual radioactivity above the DCGL. The area identified as elevated was located in a Class 2 survey unit (G51045B). The area was reclassified to Class 1 and a new Class 1 survey unit (G51045F) was created. The EMC was applied to the area with residual radioactivity above the DCGL.

For Class 1 survey units, the land area of each survey unit ranged from 300 to 1,551 m². Gamma scan measurements were performed over 100% of the land area, with results ranging from 6,200 to 13,000 gross cpm (9,000 gross cpm is approximately equal to the DCGL). Static measurements were collected from 30 to 41 locations in each survey unit, with results ranging from 0.007 to 0.95 (unity rule applied). Average measured values ranged from 0.023 to 0.047.

For Class 2 survey units, the land area of each survey unit ranged from 1,800 to 4,856 m². Scan measurements were performed over 20 to 50% of the land area, with results ranging from 4,700 to 9,700 gross cpm. Static measurements were collected from 31 to 39 locations in each survey unit. Static measurement results ranged from 0.016 to 0.135 (unity rule applied), with average measured values ranging from 0.023 to 0.083.

The two Class 3 survey units are the balance of the Industrial Area grounds (G51045A) and the Pebble Springs Warehouse yard (G52025A). The land area of survey unit G51045A was 21,694 m². Scan measurements were performed over 5% of the land area, with results ranging from 6,400 to 9,000 gross cpm. Static measurements were collected from 31 locations, with results ranging from 0.017 to 0.029 (unity rule applied). The average measured value was 0.023. The land area of survey unit G52025A was 7,810 m². No scan measurements were performed in this survey unit. Static measurements were collected from 30 locations with results ranging from 0.018 to 0.070 pCi/g ¹³⁷Cs. The average measured value was 0.043 pCi/g ¹³⁷Cs.

Table 3-1

Summary of Final Survey Results

Survey ID Code ^a	Description	Class			Survey Area (m ²)		Scan Measurements (dpm/100 cm ²)			Static Measurements (dpm/100 cm ²)			
		1	2	3	Floor ^b	Total	Coverage (%)	Low Value ^c	High Value ^c	Number	Low Value ^c	Mean ^c	High Value ^c
Support Facility Exteriors^d													
S11045A	Containment Bldg Walls, Buttresses, & Dome			x	0	9,460	1	680	1,600	90	490	1,000	2,300
S12045A	TB Lower North Exterior Wall			x	0	212	5	1,300	1,500	30	990	1,100	1,300
S12045B	TB West Exterior Walls			x	0	564	5	820	1,600	30	610	980	1,300
S12045C	TB Lower South & East Exterior Walls			x	0	514	5	880	1,600	30	830	1,200	1,400
S12063A	TB Upper North Exterior Wall			x	0	1,105	0	N/A	N/A	30	1,300	1,500	1,800
S12063B	TB Upper West Exterior Walls			x	0	2,753	0	N/A	N/A	30	560	810	2,300
S12063C	TB Upper South & East Exterior Walls			x	0	1,840	0	N/A	N/A	30	1,200	1,600	2,400
S12116A	TB Upper East Exterior Wall			x	0	1,284	0	N/A	N/A	30	1,400	1,500	1,700
S12116B	TB Lower (Turbine Bay) Roof			x	0	828	0	N/A	N/A	30	1,000	1,600	2,300
S12157A	TB Upper Roof			x	0	5,426	0	N/A	N/A	30	1,400	2,000	3,300
S13045A	Maintenance Bldg Exterior Walls and Patio			x	0	1,386	2	870	2,200	30	650	1,100	1,500
S13059A	Maintenance Bldg Roof (excluding Patio)			x	0	913	0	N/A	N/A	30	1,400	2,200	3,600
S14045A	FB Lower & Radwaste Annex N & W Exterior Walls			x	0	173	5	1,500	2,200	30	990	1,100	1,400
S14045B	FB Lower & Radwaste Annex East Exterior Walls			x	0	414	5	1,000	1,600	30	490	1,000	1,200
S14045C	FB South Exterior Walls			x	0	643	5	1,200	1,600	30	640	900	1,200
S14063A	FB Upper North & West Exterior Walls			x	0	1,008	0	N/A	N/A	30	1,300	2,000	3,800
S14063B	FB Upper East Exterior Wall			x	0	1,215	0	N/A	N/A	30	1,100	1,600	4,300
S14138A	FB, AB, CB, & Radwaste Annex Roofs			x	0	3,870	0	N/A	N/A	45	1,300	2,300	3,000
S15045A	AB Lower North Exterior Wall			x	0	233	5	1,100	1,600	30	930	1,100	1,200
S15063A	AB Upper North Exterior Wall			x	0	552	0	N/A	N/A	30	980	1,200	1,400
S16045A	CB Lower North & East Exterior Walls			x	0	213	5	1,200	1,900	30	930	1,100	1,300
S16063A	CB Upper North & East Exterior Walls			x	0	579	0	N/A	N/A	30	1,100	1,300	1,400
S17045A	Cond Demin Bldg Exterior Walls & Roof			x	0	1,340	3	1,100	3,600	30	900	1,400	3,300
S21023A	Intake Structure Exterior			x	282	955	5	970	2,200	34	680	1,300	1,800
S32045B	Chlorine Bldg Exterior Walls, Roof, & Guard Tower			x	0	1,084	2	880	1,900	30	670	1,200	2,000
S33045A	Guardhouse Exterior Walls, Roof, & Stairs			x	51	540	5	830	1,800	30	720	1,100	1,600
S34045A	TSC Exterior Walls, Stairwells, & Roof			x	42	1,700	2	1,100	1,500	36	910	1,100	1,900
S35045A	Security Building Exterior Walls & Roof			x	0	708	5	820	1,300	30	680	850	1,200

Table 3-1

Summary of Final Survey Results

Survey ID Code ^a	Description	Class			Survey Area (m ²)		Scan Measurements (dpm/100 cm ²)			Static Measurements (dpm/100 cm ²)			
		1	2	3	Floor ^b	Total	Coverage (%)	Low Value ^c	High Value ^c	Number	Low Value ^c	Mean ^c	High Value ^c
Support Facility Exteriors (cont.)													
S36045A	TCB East & North Exterior Walls			x	0	1,468	2	740	1,300	30	590	880	1,200
S36045B	TCB South & West Exterior Walls			x	592	2,660	3	860	2,000	45	580	970	1,400
S36089A	TCB Roof			x	0	3,234	0	N/A	N/A	30	850	1,400	2,300
S37045A	Materials Warehouse Exterior Walls			x	0	1,343	2	1,100	2,000	30	730	1,400	1,700
S37074A	Materials Warehouse Roof			x	0	1,368	0	N/A	N/A	30	1,400	2,300	3,000
S38045B	Discharge & Dilution Structure Exterior			x	44	228	7	960	1,900	30	750	1,300	1,700
S41029A	Circ Water Pump Pit Walls, Floor, Grating, & Equipment			x	420	1,050	5	800	3,800	36	490	1,000	1,400
S42045A	Transformers, Dividing Walls, and Equipment			x	676	2,826	2	810	1,900	30	590	1,200	2,200
S43020A	Oily Water Separator (formerly identified as P62065A)		x		125	397	30	1,500	3,500	30	1,800	2,200	3,200
S44045B	Gas Bottle Storage Building Exterior Walls & Roof			x	0	474	2	830	1,800	30	700	970	1,300
S45026A	Solids Settling Basin			x	146	440	5	1,300	2,500	30	770	1,000	1,300
Support Facility Interiors^d													
S01025A	Cont Elev 25' Tendon Gallery East Half		x		187	807	12	1,100	1,700	30	950	1,100	1,300
S01025B	Cont Elev 25' Tendon Gallery West Half		x		187	807	12	980	1,400	30	770	960	1,100
S03045A	Maintenance Bldg Tool Room & Carpenter Shop		x		291	984	11	740	1,800	30	500	1,000	1,600
S03045B	Maintenance Bldg Machine Shop			x	352	1,538	3	760	1,600	30	620	1,100	1,600
S03045C	Maintenance Bldg Interior			x	419	1,519	10	1,100	2,000	30	730	1,000	1,400
S21023B	Intake Structure Interior			x	402	2,280	5	720	1,700	30	660	1,200	1,900
S22045A	Chlorine Bldg Interior			x	267	1,125	5	1,200	2,000	30	810	1,200	1,500
S23032A	Guardhouse Interior			x	219	1,025	5	920	1,500	30	600	920	1,500
S24038A	TSC Interior			x	894	2,951	3	840	2,600	30	570	850	1,700
S25045A	Security Building Interior			x	291	857	5	940	1,700	30	600	840	1,400
S26045A	TCB Interior (less HP/Dosimetry Office & 3rd Flr E Wall)			x	7,332	7,332	5	780	2,300	30	750	1,200	2,300
S26045B	TCB Health Physics/Dosimetry Office		x		99	266	15	900	1,400	30	660	920	1,200
S26073A	TCB 3rd Floor East Interior Wall			x	0	134	5	810	1,100	30	610	720	870
S27045A	Materials Warehouse Interior (excluding I&E Shop)			x	1,340	3,946	2	900	1,700	30	810	1,200	1,300
S27045B	Materials Warehouse I&E Shop			x	163	508	10	930	1,600	30	740	940	1,400
S38045A	Discharge & Dilution Structure Interior			x	33	172	10	880	1,500	30	540	720	930

Table 3-1

Summary of Final Survey Results

Survey ID Code ^a	Description	Class			Survey Area (m ²)		Scan Measurements (dpm/100 cm ²)			Static Measurements (dpm/100 cm ²)			
		1	2	3	Floor ^b	Total	Coverage (%)	Low Value ^c	High Value ^c	Number	Low Value ^c	Mean ^c	High Value ^c
Support Facility Interiors^d (cont.)													
S44045A	Gas Bottle Storage Building Interior Walls & Ceiling			x	297	1,196	2	850	1,900	30	660	1,300	1,900
S46025A	Pebble Springs Warehouse			x	1,412	1,412	5	1,400	1,800	30	1,100	1,300	1,500
Condensate Demineralizer Building Interior^e													
S07019A	Elev. 19' Floor/Lower Walls, Col B to C & 5 to 8	x			100	169	100	900	7,200	34	740	1,200	1,600
S07019B	Elev 19' Floor/Lower Walls, Col B to C & 2 to 5	x			100	138	100	1,400	4,800	32	1,600	2,200	2,700
S07019C	Elev 19' Floor/Lower Walls, Col A to B & 5 to 8	x			82	175	100	960	6,800	31	850	1,500	1,900
S07019D	Elev 19' Floor/Lower Walls, Col A to B & 2 to 5	x			77	158	100	1,600	16,000 ^f	32	1,300	2,300	15,000 ^g
S07019E	Elev 19' Backwash Tank Area		x		141	585	15	810	1,900	30	520	870	1,200
S07025A	Elev 19' Upper Walls & Ceiling		x		0	653	15	880	3,100	34	890	1,200	1,300
S07032A	Elev 32' Mid-Level Floor, Walls, Ceiling		x		166	594	15	970	2,900	31	640	1,200	2,500
S07045A	Elev 45' Floor, Walls, & Ceiling		x		417	1,609	10	770	2,500	30	770	1,100	1,600
S07045B	Elev 45' Crane & Trolley Rails	x			0	33	100	830	4,300	30	580	820	1,100
Site Grounds^h													
G51038A	Concrete Block Storage Area		x		1,800	1,800	50	4,700	6,000	32	0.036	0.083	0.130
G51045A	Balance of Industrial Area Grounds			x	21,694	21,694	5	6,400	9,000 ⁱ	31	0.017	0.023	0.029
G51045B	Tank Farm Yard Area #1		x		2,743	2,743	50	6,100	9,600 ⁱ	31	0.018	0.030	0.140
G51045C	SE Industrial Yard Area #1	x			1,488	1,488	100	6,200	7,800	30	0.016	0.024	0.032
G51045D	SE Industrial Yard Area #2	x			1,551	1,551	100	6,300	7,600	30	0.017	0.023	0.029
G51045E	SE Industrial Yard Area #3		x		4,856	4,856	20	6,000	9,700 ⁱ	39	0.016	0.023	0.032
G51045F	Tank Farm Yard Area #2	x			300	300	100	8,800	13,000 ^{i,j}	41	0.010	0.047	0.950
G52025A	Pebble Springs Warehouse Yard			x	7,810	7,810	0	N/A	N/A	30	0.018 ^k	0.043 ^k	0.070 ^k

Notes:

^a See Section 2.1.4 for description of survey ID code nomenclature.

^b Includes ground/floor surface area only, with the exception of survey units S26045A and S46025A which show floor and total surface area as the same.

^c Survey results reported to two significant figures.

^d Primary-to-secondary leakage gross activity DCGL of 21,000 dpm/100 cm² applied to these survey unit with the exception of survey unit S46025A, to which the Containment gross activity DCGL of 22,000 dpm/100 cm² was applied.

^e RCA DCGL of 7,500 dpm/100 cm² applied to these survey units.

Notes: (cont.)

^f Data investigation performed and EMC applied.

^g Sign statistical test applied to data set.

^h With the exception of survey unit G52025A, scan measurements are gamma scans and values are given in gross cpm; static measurements are soil samples and values are given in dimensionless fractions (unity rule application).

ⁱ A soil or gravel sample was collected at locations that exceeded 9,000 gross cpm to identify areas with volumetric residual radioactivity requiring investigation.

^j Pebble Springs Warehouse Yard DCGL of 10 pCi/g ¹³⁷Cs applied; static measurements are soil samples and values are given in pCi/g ¹³⁷Cs.

Table 3-2

Summary of Data Investigation Results and Actions Taken

Survey Unit	Class	Identified Locations		Area > DCGL (m ²)	Action(s) Taken ^a	Maximum Value (dpm/100 cm ²) ^b	
		Scan	Static			Before	After
Condensate Demineralizer Building Interior							
S07019A	1	4	0	N/A	none ^a	8,400 ^c	7,200
S07019C	1	1	0	N/A	“	8,100 ^c	6,800
S07019D	1	2	1	0.08	apply EMC	16,000 ^c	16,000 ^c
Site Grounds							
G51045B	2	1	0	1.1	remediate/subdivide unit ^d	12,000 ^c	N/A

Notes:

^a Actions included correcting results by subtracting instrument background and applying an area correction for areas smaller than 100 cm² (reference Technical basis memorandum FS-018-03), unless otherwise noted.

^b Values rounded to two significant figures.

^c Uncorrected value.

^d Elevated area remediated and subdivided out into a newly created Class1 survey unit (G51045F); EMC applied.

^e Gamma scan values given in gross cpm.

4. DATA ASSESSMENT

Final survey data were reviewed to ensure that they were of a sufficient type, quantity, and quality such that conclusions could be drawn with confidence regarding the radiological condition of the survey unit. Conclusions were drawn and documented in a separate release record prepared for each survey unit. A summary of the release record for each survey unit is given in Appendices B through E.

4.1 DATA VERIFICATION AND VALIDATION

Data were reviewed to verify Data Quality Objectives (DQOs) established in the final survey design were met. Graphical representations and statistical comparisons of the data were made which provided both qualitative and quantitative information about the data. An assessment was performed to verify the data supported the underlying assumptions necessary for the statistical tests, if applicable.

4.1.1 DATA QUALITY

The final survey data were verified authentic, appropriately documented, and technically defensible. Specifically, the following conclusions were made:

1. The instruments used to collect the data were capable of detecting the radiation of interest at or below the investigation level.
2. The calibration of the instruments used to collect the data was current and radioactive sources used for calibration were NIST traceable.
3. Instrument response was checked before and, where required, after data collection each day.
4. The MDCs and the assumptions used to develop them were appropriate for the instruments and the survey methods used to collect the data.
5. The survey methods used to collect the data were appropriate for the media and types of radiation being measured.
6. Special measurement methods used to collect the data were applied as warranted by survey conditions.
7. The custody of samples collected for laboratory analysis was tracked from the point of collection until final results were obtained.
8. The final survey data set consists of qualified measurement results that are representative of the current facility status and randomly collected as prescribed by the survey design.

4.1.2 GRAPHICAL DATA REVIEW

Survey data were graphed to identify patterns, relationships, or potential anomalies in the data that might go unnoticed using purely numerical methods. A frequency plot was used to examine the general shape of the data distribution.

4.1.3 BASIC STATISTICAL COMPARISONS

Statistical quantities (range, median, and standard deviation) were calculated for the final survey data set for each final survey unit. The calculated quantities were compared to the test values shown in the following table.

Basic Statistical Comparisons

Statistical Quantity	Test Value	Failure Response
Range (R)	$R \leq 5 \sigma$	Examine data for outliers
Median (\bar{u})	$ (\bar{u} - \text{mean}) / \sigma \leq 0.5$	Examine data for outliers and anomalies
Standard Deviation (σ)	$\sigma \leq 0.2 \times \text{DCGL}$	Determine if more measurements are necessary

Where the statistical quantity failed the comparison, the data set and/or survey design assumptions were examined. The statistical quantity failures are summarized in Table 4-1.

4.1.3.1 Range Test

Where the range was greater than 5 standard deviations, the data were examined for outliers. Outliers usually represented true extreme values of a distribution, such as areas of elevated residual radioactivity, and indicated more variability in the population than was expected. There were 10 range test failures; however, no data were discarded. The failures were generally caused by a very tight distribution with a single outlier with elevated results relative to the rest of the data set.

4.1.3.2 Median Test

Failure of the median test indicates large differences between the mean and the median and is an indication of the skewness in the data, warranting an examination of the data for outliers or anomalies. There was a single median test failure; however, no data were discarded. The failure was the result of a right-skewed data set where certain measurement locations were affected by gamma shine from the spent fuel pool (data were collected while pool was still in use).

4.1.3.3 Standard Deviation Test

Where the value of the calculated standard deviation was larger than that estimated in the survey design (the initial design value was $0.2 \times \text{DCGL}$), an insufficient number of measurements may

have been taken and additional measurements may have been necessary. There was a single failure of the standard deviation test; however, no additional measurements were necessary.

As an additional measure of assurance, a retrospective power analysis was performed to verify the power of the Sign test would have been sufficient based on a minimum of 30 measurements collected and an actual standard deviation larger than that estimated in the survey design. The largest standard deviation from actual survey data collected was used (survey unit S07019D) along with survey design values contained in LTP Appendix 4-1 to construct the power analysis. The results, shown in the table below, indicate that 15 measurements per survey unit would have provided a sample population of sufficient size to assure statistical confidence in the conclusions drawn from the survey data. Therefore, the number of measurements collected was in all cases adequate.

Retrospective Power Analysis Data

Parameter	Value
Standard Deviation (σ)	0.3 x DCGL
Lower Bound of Gray Region (LBGR)	0.4 x DCGL
False Positive Decision Error (α)	0.05
False Negative Decision Error (β)	0.05
Minimum Size of Sample Population	15

4.2 SATISFACTION OF THE SITE RELEASE CRITERIA

Four conditions were established that, when met, satisfy the site release criteria (see Section 1.3.1). These conditions were applied to each survey unit as shown in Table 4-2.

4.2.1 CONDITION #1 - MEAN TEST

Condition #1 requires that the average residual radioactivity above background be less than or equal to the DCGL. To determine if Condition #1 was met, the mean of the final survey unit data set for each survey unit was compared to 1.0 x DCGL (for unity rule applications, DCGL is 1.0). In all cases, the average residual radioactivity was less than 0.4 x DCGL. Therefore, each survey unit satisfies Condition #1.

4.2.2 CONDITION #2 - ELEVATED MEASUREMENT COMPARISON

Condition #2 requires that individual measurements, representing small areas of residual radioactivity that exceed the DCGL, do not exceed the EMC DCGL. To determine if Condition #2 was met, the individual measurement in a single survey unit, S07019D, that exceeded the DCGL was compared to the EMC DCGL. In this case, the individual measurement was less than 0.5 x EMC DCGL. Therefore, each survey unit satisfies Condition #2.

The EMC DCGL was developed using the methodology and the area factors provided in the LTP, Appendix 4-1. The radionuclide-specific area factors given in the LTP could not be used directly to develop the EMC DCGL since the gross activity DCGL was derived based on a radionuclide distribution and not on a single radionuclide. Instead, a weighting method was applied using the radionuclide distribution and the relative activity fractions used to derive the gross activity DCGL. The radionuclides of interest were those used in the derivation of the gross activity DCGL. Area factors for use with the RCA gross activity DCGL were calculated for areas of elevated residual radioactivity of 1 m², 4 m², and 9 m² in size. The area factors were 4.9, 1.3, and 1.0, respectively. As applied, areas smaller in size than 1 m² were generally assumed to be 1 m² and the 1 m² value of 4.9 was used, resulting in an EMC DCGL of 37,000 dpm/100 cm² (4.9 x DCGL).

4.2.3 CONDITION #3 - SIGN TEST

Condition #3 requires that where one or more static measurements exceed the DCGL, the average residual radioactivity passes the Sign statistical test. To determine if Condition #3 was met, the Sign test was applied to the final survey data set for the single survey unit, S07019D, which had one static measurement above the DCGL. In this case, the average residual radioactivity passed the Sign statistical test. Therefore, each survey unit satisfies Condition #3.

The Sign statistical test was applied to the final survey data set of only one survey unit since no other had one or more static measurements that exceeded the DCGL. In that case, the data provided statistically significant evidence that the level of residual radioactivity in the survey unit does not exceed the site release dose criterion. The decision that the survey unit is acceptable for unrestricted release can be made with sufficient confidence and without further analysis. The Wilcoxon Rank Sum (WRS) statistical test was not used.

4.2.4 CONDITION #4 - ALARA EVALUATION

Condition #4 requires that remediation be performed where it is ALARA to reduce the levels of residual radioactivity to below the concentrations necessary to meet the DCGLs. The levels of residual radioactivity were considered ALARA once remediation actions, considered to be cost effective, were taken. To determine if Condition #4 was met, an ALARA evaluation was performed for every Class 1 or Class 2 survey unit. In all cases, the ALARA evaluation verified that remediation was performed where it was ALARA to do so. Therefore, each survey unit satisfies Condition #4.

The ALARA evaluation ensured that: (1) residual radioactivity had been reduced to levels that are as low as reasonably achievable, and (2) efforts to remove residual radioactivity were commensurate with the level of risk the residual radioactivity poses. The ALARA evaluation examined various remediation actions to determine which actions, if any, have a net benefit in further reducing the levels of residual radioactivity. The evaluation compared residual radioactivity levels to calculated remediation levels (see Appendix A) for possible remediation actions. The remediation action was taken where the level of residual radioactivity exceeded the remediation level. Conversely, if the concentration was less than the remediation level, the level

of residual radioactivity was documented as ALARA and the remediation action was not performed.

Table 4-1

Summary of Statistical Quantity Failures

Survey Unit	Calculated Value	Acceptance Criterion	Reason for Failure		
			Number of Outliers	High/Low Value (dpm/100 cm ²) ^a	Balance of Data (dpm/100 cm ²) ^a
Range Test					
S21023A	1,106	≤ 1,043	1	1,000	>1,000 ^b
S21023B	1,221	≤ 1,124	N/A	2,000	<2,000 ^b
S43020A	1,345	≤ 1,279	N/A	3,000	<3,000 ^b
S27045B	621	≤ 618	N/A	1,000	<1,000 ^b
S24038A	1,158	≤ 1,113	N/A	2,000	<2,000 ^b
S11045A	1,816	≤ 1,289	3	2,000 ^c	<2,000
S12063B	1,780	≤ 1,557	1	2,000	<1,000
S07019D	13,559	≤ 13,739	1	15,000	<3,000
G51045B	0.117	≤ 0.116	N/A	0.10 ^c	<0.10 ^{b,c}
G51045F	0.946	≤ 0.726	1	0.95 ^c	<0.10 ^c
Median Test					
S14063A	0.538	≤ 0.5	N/A	N/A	N/A ^d
Standard Deviation Test					
S07019D	2,329	≤ 1,500	1	15,000	<3,000

Notes:

^a Values rounded to nearest 1,000 dpm/100 cm².

^b Small standard deviation due to tight data set population distribution.

^c Average value.

^d Failure due to increasing values from gamma shine for measurement locations approaching the spent fuel pool (data collected while pool was still in use).

^e Values expressed in pCi/g to two significant figures.

Table 4-2

Satisfaction of Conditions for Site Release

Survey ID Code	Description	Class			Condition #1 Mean Test		Condition #2 EMC			Condition #3 Sign Test		Condition #4 ALARA		Conclusion: Satisfies Release Criteria?
		1	2	3	Mean	% of DCGL	Area (m ²)	Max Value	% of EMC	S+ Value	Critical Value	Rad Levels ALARA?	Remediated to ALARA?	
Support Facility Exteriors														
S11045A	Containment Bldg Walls, Buttresses, & Dome			x	1,000	5	---	---	---	---	---	Y	N/A	Y
S12045A	TB Lower North Exterior Wall			x	1,100	5	---	---	---	---	---	Y	N/A	Y
S12045B	TB West Exterior Walls			x	980	5	---	---	---	---	---	Y	N/A	Y
S12045C	TB Lower South & East Exterior Walls			x	1,200	6	---	---	---	---	---	Y	N/A	Y
S12063A	TB Upper North Exterior Wall			x	1,500	7	---	---	---	---	---	Y	N/A	Y
S12063B	TB Upper West Exterior Walls			x	810	4	---	---	---	---	---	Y	N/A	Y
S12063C	TB Upper South & East Exterior Walls			x	1,600	8	---	---	---	---	---	Y	N/A	Y
S12116A	TB Upper East Exterior Wall			x	1,500	7	---	---	---	---	---	Y	N/A	Y
S12116B	TB Lower (Turbine Bay) Roof			x	1,600	8	---	---	---	---	---	Y	N/A	Y
S12157A	TB Upper Roof			x	2,000	10	---	---	---	---	---	Y	N/A	Y
S13045A	Maintenance Bldg Exterior Walls and Patio			x	1,100	5	---	---	---	---	---	Y	N/A	Y
S13059A	Maintenance Bldg Roof (excluding Patio)			x	2,200	10	---	---	---	---	---	Y	N/A	Y
S14045A	FB Lower & Radwaste Annex N & W Exterior Walls			x	1,100	5	---	---	---	---	---	Y	N/A	Y
S14045B	FB Lower & Radwaste Annex East Exterior Walls			x	1,000	5	---	---	---	---	---	Y	N/A	Y
S14045C	FB South Exterior Walls			x	900	4	---	---	---	---	---	Y	N/A	Y
S14063A	FB Upper North & West Exterior Walls			x	2,000	10	---	---	---	---	---	Y	N/A	Y
S14063B	FB Upper East Exterior Wall			x	1,600	8	---	---	---	---	---	Y	N/A	Y
S14138A	FB, AB, CB, & Radwaste Annex Roofs			x	2,300	11	---	---	---	---	---	Y	N/A	Y
S15045A	AB Lower North Exterior Wall			x	1,100	5	---	---	---	---	---	Y	N/A	Y
S15063A	AB Upper North Exterior Wall			x	1,200	6	---	---	---	---	---	Y	N/A	Y
S16045A	CB Lower North & East Exterior Walls			x	1,100	5	---	---	---	---	---	Y	N/A	Y
S16063A	CB Upper North & East Exterior Walls			x	1,300	6	---	---	---	---	---	Y	N/A	Y
S17045A	Cond Demin Bldg Exterior Walls & Roof			x	1,400	7	---	---	---	---	---	Y	N/A	Y
S21023A	Intake Structure Exterior			x	1,300	6	---	---	---	---	---	Y	N/A	Y
S32045B	Chlorine Bldg Exterior Walls, Roof, & Guard Tower			x	1,200	6	---	---	---	---	---	Y	N/A	Y
S33045A	Guardhouse Exterior Walls, Roof, & Stairs			x	1,100	5	---	---	---	---	---	Y	N/A	Y
S34045A	TSC Exterior Walls, Stairwells, & Roof			x	1,100	5	---	---	---	---	---	Y	N/A	Y
S35045A	Security Building Exterior Walls & Roof			x	850	4	---	---	---	---	---	Y	N/A	Y

Table 4-2

Satisfaction of Conditions for Site Release

Survey ID Code	Description	Class			Condition #1 Mean Test		Condition #2 EMC			Condition #3 Sign Test		Condition #4 ALARA		Conclusion: Satisfies Release Criteria?
		1	2	3	Mean	% of DCGL	Area (m ²)	Max Value	% of EMC	S+ Value	Critical Value	Rad Levels ALARA?	Remediated to ALARA?	
Support Facility Exteriors (cont.)														
S36045A	TCB East & North Exterior Walls			x	880	4	---	---	---	---	---	Y	N/A	Y
S36045B	TCB South & West Exterior Walls			x	970	5	---	---	---	---	---	Y	N/A	Y
S36089A	TCB Roof			x	1,400	7	---	---	---	---	---	Y	N/A	Y
S37045A	Materials Warehouse Exterior Walls			x	1,400	7	---	---	---	---	---	Y	N/A	Y
S37074A	Materials Warehouse Roof			x	2,300	11	---	---	---	---	---	Y	N/A	Y
S38045B	Discharge & Dilution Structure Exterior			x	1,300	6	---	---	---	---	---	Y	N/A	Y
S41029A	Circ Water Pump Pit Walls, Floor, Grating, & Equip			x	1,000	5	---	---	---	---	---	Y	N/A	Y
S42045A	Transformers, Dividing Walls, and Equipment			x	1,200	6	---	---	---	---	---	Y	N/A	Y
S43020A	Oily Water Separator (formerly P62065A)		x		2,200	10	---	---	---	---	---	Y	N/A	Y
S44045B	Gas Bottle Storage Building Exterior Walls & Roof			x	970	5	---	---	---	---	---	Y	N/A	Y
S45026A	Solids Settling Basin			x	1,000	5	---	---	---	---	---	Y	N/A	Y
Support Facility Interiors														
S01025A	Cont Elev 25' Tendon Gallery East Half		x		1,100	5	---	---	---	---	---	Y	N/A	Y
S01025B	Cont Elev 25' Tendon Gallery West Half		x		960	5	---	---	---	---	---	Y	N/A	Y
S03045A	Maintenance Bldg Tool Room & Carpenter Shop		x		1,000	5	---	---	---	---	---	Y	N/A	Y
S03045B	Maintenance Bldg Machine Shop			x	1,100	5	---	---	---	---	---	Y	N/A	Y
S03045C	Maintenance Bldg Interior			x	1,000	5	---	---	---	---	---	Y	N/A	Y
S21023B	Intake Structure Interior			x	1,200	6	---	---	---	---	---	Y	N/A	Y
S22045A	Chlorine Bldg Interior			x	1,200	6	---	---	---	---	---	Y	N/A	Y
S23032A	Guardhouse Interior			x	920	4	---	---	---	---	---	Y	N/A	Y
S24038A	TSC Interior			x	850	4	---	---	---	---	---	Y	N/A	Y
S25045A	Security Building Interior			x	840	4	---	---	---	---	---	Y	N/A	Y
S26045A	TCB Interior (less HP/Dosimetry & 3rd Flr E Wall)			x	1,200	6	---	---	---	---	---	Y	N/A	Y
S26045B	TCB Health Physics/Dosimetry Office		x		920	4	---	---	---	---	---	Y	N/A	Y
S26073A	TCB 3rd Floor East Interior Wall			x	720	3	---	---	---	---	---	Y	N/A	Y
S27045A	Materials Warehouse Interior (excluding I&E Shop)			x	1,200	6	---	---	---	---	---	Y	N/A	Y
S27045B	Materials Warehouse I&E Shop			x	940	4	---	---	---	---	---	Y	N/A	Y
S38045A	Discharge & Dilution Structure Interior			x	720	3	---	---	---	---	---	Y	N/A	Y

Table 4-2

Satisfaction of Conditions for Site Release

Survey ID Code	Description	Class			Condition #1 Mean Test		Condition #2 EMC			Condition #3 Sign Test		Condition #4 ALARA		Conclusion: Satisfies Release Criteria?
		1	2	3	Mean	% of DCGL	Area (m ²)	Max Value	% of EMC	S+ Value	Critical Value	Rad Levels ALARA?	Remediated to ALARA?	
Support Facility Interiors (cont.)														
S44045A	Gas Bottle Storage Building Interior Walls & Ceiling			x	1,300	6	---	---	---	---	---	Y	N/A	Y
S46025A	Pebble Springs Warehouse			x	1,300	6	---	---	---	---	---	Y	N/A	Y
Condensate Demineralizer Building Interior														
S07019A	Elev.19' Floor/Lower Walls, Col B to C & 5 to 8	x			1,200	16	---	---	---	---	---	N	Y	Y
S07019B	Elev 19' Floor/Lower Walls, Col B to C & 2 to 5	x			2,200	29	---	---	---	---	---	N	Y	Y
S07019C	Elev 19' Floor/Lower Walls, Col A to B & 5 to 8	x			1,500	20	---	---	---	---	---	N	Y	Y
S07019D	Elev 19' Floor/Lower Walls, Col A to B & 2 to 5	x			2,300	31	0.08	16,000	44	31	21	N	Y	Y
S07019E	Elev 19' Backwash Tank Area		x		870	12	---	---	---	---	---	Y	N/A	Y
S07025A	Elev 19' Upper Walls & Ceiling		x		1,200	16	---	---	---	---	---	Y	N/A	Y
S07032A	Elev 32' Mid-Level Floor, Walls, Ceiling		x		1,200	16	---	---	---	---	---	Y	N/A	Y
S07045A	Elev 45' Floor, Walls, & Ceiling		x		1,100	15	---	---	---	---	---	Y	N/A	Y
S07045B	Elev 45' Crane & Trolley Rails	x			820	11	---	---	---	---	---	N	Y	Y
Site Grounds														
G51038A	Concrete Block Storage Area		x		0.083	8	---	---	---	---	---	Y	N/A	Y
G51045A	Balance of Industrial Area Grounds			x	0.023	2	---	---	---	---	---	Y	N/A	Y
G51045B	Tank Farm Yard Area #1		x		0.030	3	---	---	---	---	---	Y	N/A	Y
G51045C	SE Industrial Yard Area #1	x			0.024	2	---	---	---	---	---	Y	N/A	Y
G51045D	SE Industrial Yard Area #2	x			0.023	2	---	---	---	---	---	Y	N/A	Y
G51045E	SE Industrial Yard Area #3		x		0.023	2	---	---	---	---	---	Y	N/A	Y
G51045F	Tank Farm Yard Area #2	x			0.047	5	---	---	---	---	---	Y	N/A	Y
G52025A	Pebble Springs Warehouse Yard			x	0.043	<1	---	---	---	---	---	Y	N/A	Y

5. FINAL SURVEY CONCLUSION

The final survey of support facilities and site grounds was performed in accordance with the LTP and its implementing procedures. Final survey data of adequate quantity and quality were collected from each of the survey units. The survey data for each survey unit showed:

1. The average residual radioactivity, which included the background distribution, was less than 1.0 x DCGL.
2. Individual measurements, representing small areas of residual radioactivity that exceeded the DCGL, did not exceed the EMC DCGL.
3. Where one or more individual static measurements exceeded the DCGL, the average residual radioactivity passed the Sign statistical test.
4. Remediation was performed where it was ALARA to reduce the levels of residual radioactivity to below the concentrations necessary to meet the DCGLs.

These conditions satisfy the site release criteria established in the LTP and the radiological criteria for unrestricted use given in 10 CFR 20.1402 (see Section 1.3). Therefore, it is concluded that support facilities and site grounds are suitable for release to unrestricted use.

6. REFERENCES

- 6-1 Code of Federal Regulations, Title 10, Part 20.1402, “Radiological Criteria for Unrestricted Use.”
- 6-2 Portland General Electric Company Topical Report PGE-1061, “Trojan Nuclear Plant Defueled Safety Analysis Report and License Termination Plan (PGE-1078)”
- 6-3 Portland General Electric Company Topical Report PGE-8010, “Trojan Nuclear Quality Assurance Program.”
- 6-4 Portland General Electric Company, “Trojan Nuclear Plant Radiological Site Characterization Report,” Revision 0.1, February 8, 1995.

APPENDIX A

SURVEY PREPARATION ACTIVITIES

This appendix provides a general description of decommissioning activities in the nature of a historical assessment that was used to determine the final survey classification of each of the support facilities and site grounds. Detailed decommissioning information as well as a brief radiological history is found in the LTP, Section 3.

Support facilities and site grounds were prepared for final survey by a series of decommissioning activities, including radiological characterization, dismantlement or demolition, remediation, and turnover to final survey. Radiological characterization data were gathered and analyzed. The results guided decisions regarding the need for, extent of, and most effective means of remediation. Areas were remediated as needed, and then systematically turned over for final survey. An assessment of the operation and radiological history established the initial classification of support facilities and site grounds.

RADIOLOGICAL CHARACTERIZATION

Radiological characterization of the support facilities and site grounds was completed in two phases. The initial radiological characterization was performed as Phase I. It is documented in the "Trojan Nuclear Plant Radiological Site Characterization Report," Revision 0.1, dated February 8, 1995. Phase II involved routine radiological surveys, referred to as operational surveys. These surveys were used to support dismantlement and remediation activities. Areas that were not, or could not be, surveyed during Phase I were surveyed during Phase II. Based on the surveys gathered as part of Phase II characterization, the predominant beta-gamma emitters were found to be ^{60}Co and ^{137}Cs .

DISMANTLEMENT AND DEMOLITION ACTIVITIES

Most of the components and equipment in the support facilities were left as found during plant operations. Equipment and components, as well as heavily contaminated concrete and masonry surfaces, primarily in the Condensate Demineralizer Building, were removed during decommissioning.

REMEDIATION ACTIVITIES

Remaining structural surfaces were remediated using a variety of techniques ranging from wiping to surface material removal. Removable surface radioactivity was remediated via simple means such as wiping down an area and vacuuming to collect dirt and loose radioactivity from recesses and corners. These were considered good practices and were typically applied. Concrete surfaces were remediated by scabbling. Abrasive blasting was used to remove fixed radioactivity from surfaces other than concrete.

Remediation levels were established for various types of remediation actions such as scrubbing, abrasive blasting, and scabbling. Remediation levels were developed using an unbiased analysis

of remediation actions that could both avert future dose (a benefit to society) and cost money (a potential detriment to society). They are based on the methodology and assumptions given in the LTP, Section 2.4.2. Where the level of residual radioactivity exceeded the remediation level, the remediation action was taken. Conversely, if the concentration was less than the remediation level, the level of residual radioactivity was considered ALARA and the remediation action was not performed.

The remediation levels applied to the support facilities are given below.

Remediation Levels

Remediation Action	Action Level (dpm/100 cm ²)		
	Primary-to-Secondary Leakage DCGL	RCA DCGL	Containment DCGL
Hand scrubbing	25,000	7,000	20,000
Grinding	30,000	N/A	20,000
Abrasive blasting	65,000	18,000	76,000
Scabbling	78,000	22,000	N/A
Material Removal	N/A	N/A	200,000

A single remediation level of 1,600 x DCGL was applied to the site grounds.

TURNOVER

A systematic approach was established for the turnover of support facilities and site grounds from the Decommissioning organization to the Final Survey organization. Dismantlement and remediation activities were completed in areas that could be isolated or controlled in such a manner as to minimize the potential for the reintroduction of contamination from ongoing decommissioning activities in adjacent or nearby areas. These work areas were then prepared for final survey data collection. Support facilities and site grounds were divided into 21 work areas, listed in the following table, each of which was turned over separately.

Prior to turnover, a walkdown of the work area was performed when the final configuration was known, usually near or after the completion of dismantlement and remediation activities. The physical state of the area and the scope of work necessary to prepare it for final survey were assessed during the walkdown. Requirements for access, isolation, and control were also addressed during the walkdown. Support activities necessary to conduct the final survey, such as scaffolding, interference removal, and electrical tag-outs, were identified. Safety concerns such as access to confined spaces, high walls, and ceilings were also identified.

Tools, equipment, and materials not needed for final survey data collection were removed. Housekeeping and clean-up activities were completed. Scaffolding and other temporary equipment needed for final survey data collection were put in place. Administrative and physical controls were instituted to minimize the possibility of introducing radioactive material from ongoing decommissioning activities in adjacent or nearby areas. These measures included

personnel training, installation of barriers to control access to the area, installation of postings with access/egress requirements, and removing access to the area.

Turnover List

Turnover Checklist Number	Work Area Description
21	Pebble Springs Warehouse and Yard
23	Turbine, Auxiliary, Fuel, & Central Bldg Exterior Walls affected by ISFSI
26	Material Warehouse & Maintenance Bldg Interiors; Chlorine Bldg Exterior
32	Containment Tendon Gallery
77	Building Exteriors
80	Containment and Other Building Exteriors
136	Technical Support Center Interior
137	Intake Structure Interior
139	Access Control Facility (Security Building)
140	Trojan Central Building Interior (excluding HP/Dosimetry area)
156	Condensate Demineralizer Building Interior
157	Chlorine Building Interior
158	Guardhouse Interior
160	Materials Warehouse, I&E Shop and 2 nd Floor Offices
161	Maintenance Building Interior – South End
162	Discharge & Dilution Structure Interior
164	Trojan Central Building HP/Dosimetry area
165	Tank Farm Yard area
166	Oily Water Separator
167	Industrial Area Yard, excluding Tank Farm Yard area
168	Grounds SW of Industrial Area (concrete block storage area)

HISTORICAL ASSESSMENT AND INITIAL CLASSIFICATION

Based on an assessment of relevant historical information, an initial classification was assigned to the structural surfaces and equipment remaining following the completion of dismantlement, demolition, and remediation activities. Information used in the assessment included the operational and radiological history of the area, the remediation activities performed in the area, and the radiological characterization data collected during decommissioning prior to turnover. Measurement results are summarized in Table 2-2.

APPENDIX B

SURVEY UNIT SUMMARY REPORTS – SUPPORT FACILITY EXTERIORS

<u>Survey Unit ID Code</u>	<u>Page(s)</u>
S11045A	B-2 through B-8
S12045A	B-9 through B-12
S12045B.....	B-13 through B-17
S12045C.....	B-18 through B-23
S12063A	B-24 through B-27
S12063B.....	B-28 through B-32
S12063C.....	B-33 through B-37
S12116A	B-38 through B-41
S12116B.....	B-42 through B-47
S12157A	B-48 through B-54
S13045A	B-55 through B-60
S13059A	B-61 through B-64
S14045A	B-65 through B-68
S14045B.....	B-69 through B-73
S14045C.....	B-74 through B-78
S14063A	B-79 through B-83
S14063B.....	B-84 through B-88
S14138A	B-89 through B-95
S15045A	B-96 through B-99
S15063A	B-100 through B-103
S16045A	B-104 through B-107
S16063A	B-108 through B-112
S17045A	B-113 through B-117
S21023A	B-118 through B-126
S32045B.....	B-127 through B-133
S33045A	B-134 through B-139
S34045A	B-140 through B-148
S35045A	B-149 through B-154
S36045A	B-155 through B-158
S36045B.....	B-159 through B-165
S36089A	B-166 through B-171
S37045A	B-172 through B-176
S37074A	B-177 through B-180
S38045B.....	B-181 through B-184
S41029A	B-185 through B-190
S42045A	B-191 through B-196
S43020A	B-197 through B-200
S44045B.....	B-201 through B-205
S45026A	B-206 through B-211

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S11045A
 Survey Unit Name: Containment Building Walls,
 Buttresses, and Dome

Classification: Class 3
 Size (m²): 9,460

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	90	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 4.875e+002
 Maximum Value : 2.303e+003
 Range : 1.816e+003
 Median : 9.870e+002
 Std. Deviation : 2.579e+002
 Mean : 9.997e+002
 95% UCL : 1.045e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	9.991e+002	000018	9.347e+002	000035	8.501e+002
000002	9.669e+002	000019	6.567e+002	000036	9.508e+002
000003	1.124e+003	000020	8.501e+002	000037	7.695e+002
000004	1.060e+003	000021	9.951e+002	000038	8.017e+002
000005	1.047e+003	000022	1.031e+003	000039	8.944e+002
000006	1.027e+003	000023	9.790e+002	000040	8.581e+002
000007	9.749e+002	000024	1.011e+003	000041	7.856e+002
000008	9.830e+002	000025	1.007e+003	000042	8.219e+002
000009	1.096e+003	000026	1.039e+003	000043	7.695e+002
000010	1.273e+003	000027	9.709e+002	000044	9.145e+002
000011	9.870e+002	000028	1.060e+003	000045	8.380e+002
000012	1.112e+003	000029	9.669e+002	000046	8.219e+002
000013	1.056e+003	000030	9.749e+002	000047	9.347e+002
000014	1.068e+003	000031	7.493e+002	000048	8.219e+002
000015	9.870e+002	000032	9.387e+002	000049	6.003e+002
000016	8.742e+002	000033	8.178e+002	000050	9.709e+002
000017	1.056e+003	000034	8.742e+002	000051	7.856e+002

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S11045A
Survey Unit Name: Containment Building Walls,
Buttresses, and Dome

Classification: Class 3
Size (m²): 9,460

Data Quality Values

Location	Value
000052	7.534e+002
000053	6.849e+002
000054	1.015e+003
000055	4.875e+002
000056	6.083e+002
000057	1.023e+003
000058	1.136e+003
000059	1.051e+003
000060	1.007e+003
000061	1.064e+003
000062	1.100e+003
000063	7.574e+002
000064	9.306e+002
000065	9.870e+002
000066	1.011e+003
000067	1.160e+003
000068	9.145e+002
000069	9.548e+002
000070	9.830e+002
000071	1.031e+003
000072	1.108e+003
000073	7.090e+002
000074	1.019e+003
000075	9.749e+002
000076	1.080e+003
000077	1.060e+003
000078	9.991e+002
000079	1.164e+003
000080	1.068e+003
000081	1.144e+003
000082	1.080e+003
000083	1.080e+003
000084	1.088e+003
000085	9.709e+002
000086	1.387e+003
000087	1.765e+003
000088	2.303e+003
000089	2.206e+003
000090	1.367e+003

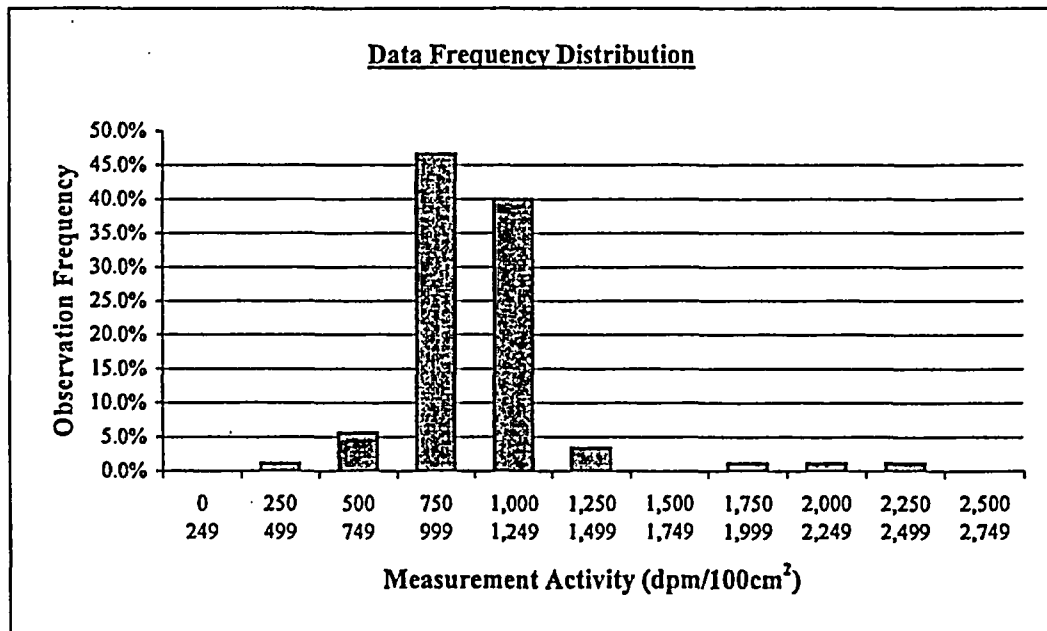
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S11045A
Survey Unit Name: Containment Building Walls,
 Buttresses, and Dome

Classification: Class 3
Size (m²): 9,460

Measurement Data Statistical Evaluation

<u>Statistical Comparisons</u>				<u>Statistical Quantities</u>	
Test	Calculated Value	Acceptance Criteria	Acceptable?		
Range	1,816	1,289	See comment below	Range:	1,816
Median	0.049	0.500	Pass	Median:	987
Mean	1,000	10,500	Pass	Mean:	1,000
Std Dev	258	4,200	Pass	Std Dev:	258
				Minimum:	488
				Maximum:	2,303
All data less than DCGL; Sign statistical test not required.				DCGL:	21,000



Plot Parameters	Interval	High End	Low End	Number of Observations	Observation Frequency
# of measurements:	1	249	0	0	0.0%
# of intervals:	2	499	250	1	1.1%
Interval increment:	3	749	500	5	5.6%
Minimum:	4	999	750	42	46.7%
Maximum:	5	1,249	1,000	36	40.0%
	6	1,499	1,250	3	3.3%
	7	1,749	1,500	0	0.0%
	8	1,999	1,750	1	1.1%
	9	2,249	2,000	1	1.1%
	10	2,499	2,250	1	1.1%
	11	2,749	2,500	0	0.0%
	Total:			90	100%

Comment:
 Range failure is a test artifact due to a very small standard deviation, which results in a data set range value that is slightly more than 5 times the standard deviation. The range test is essentially meaningless for this data set.
 All data are valid and accepted for final survey release record.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S11045A
Survey Unit Name: Containment Building Walls,
Buttresses, and Dome

Classification: Class 3
Size (m²): 9,460

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 677

Scan Coverage (%): 1
Investigation Level: 21,000
Maximum Value: 1,623

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 2

Number of Measurements: 90
Investigation Level: 2,100
Maximum Value: 23

Discussion of Anomalous Measurement Data

Investigation Summary

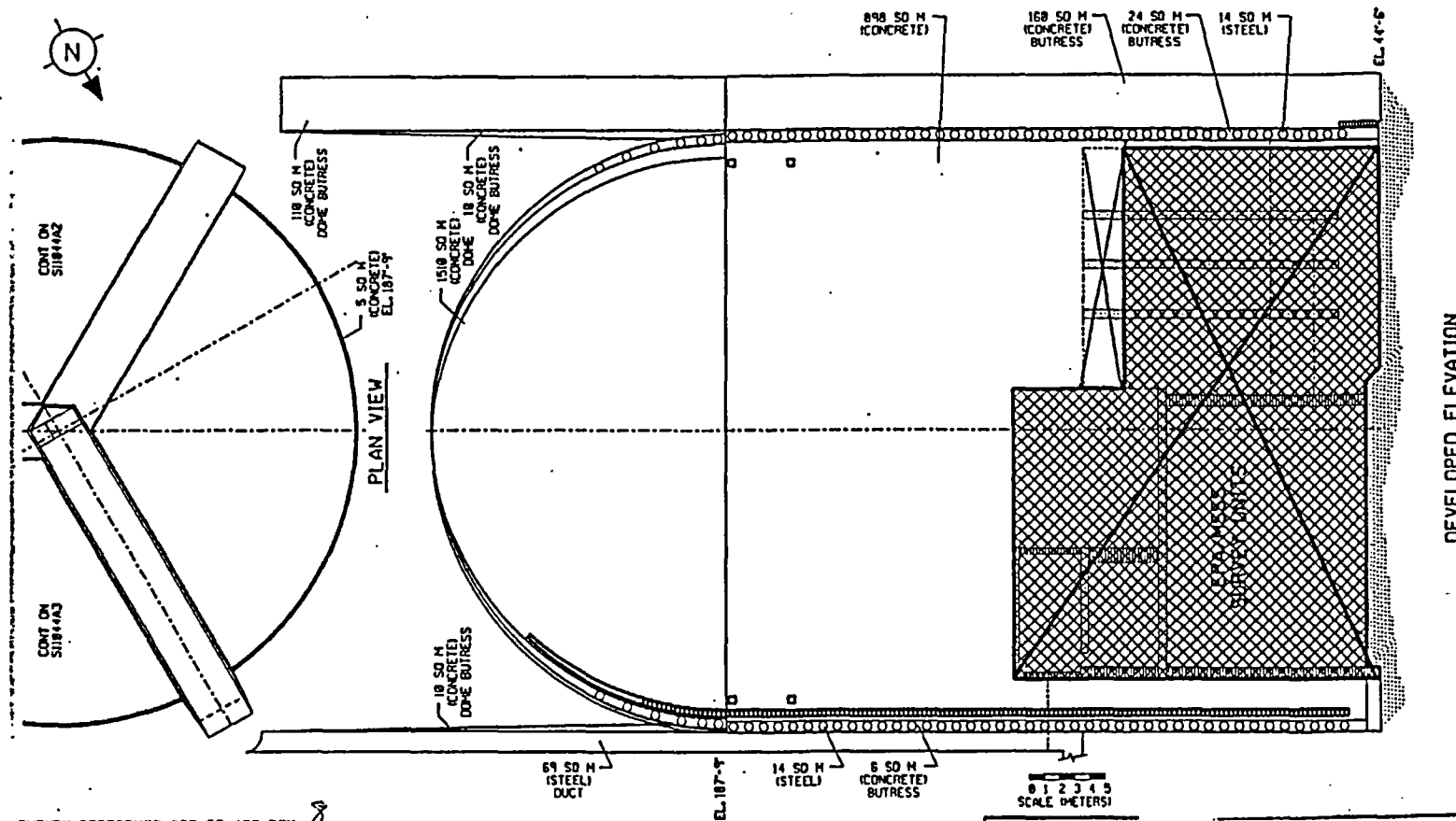
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S11045A
 Survey Unit Name: Containment Building Walls, Buttresses, and Dome

Classification: Class 3
 Size (m²): 9,460

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 8

SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	Loe Libal / Spris	<i>[Signature]</i>	8-18-2003
TECHNICIAN 2	Mark For / [Name]	<i>[Signature]</i>	8-18-2003

TROJAN FINAL SURVEY			
MAP NO.	S11045A1	REVISION NO.	00
PREPARED BY	R C RAYMOND	REVISION DATE	03-13-03
CHECKED BY		DWG REFERENCE	C-206
AREA/COMPONENT DESCRIPTION	CONTAINMENT EXTERIOR BETWEEN N & SV TENDON ACCESS		

FINAL SURVEY RESULTS SUMMARY

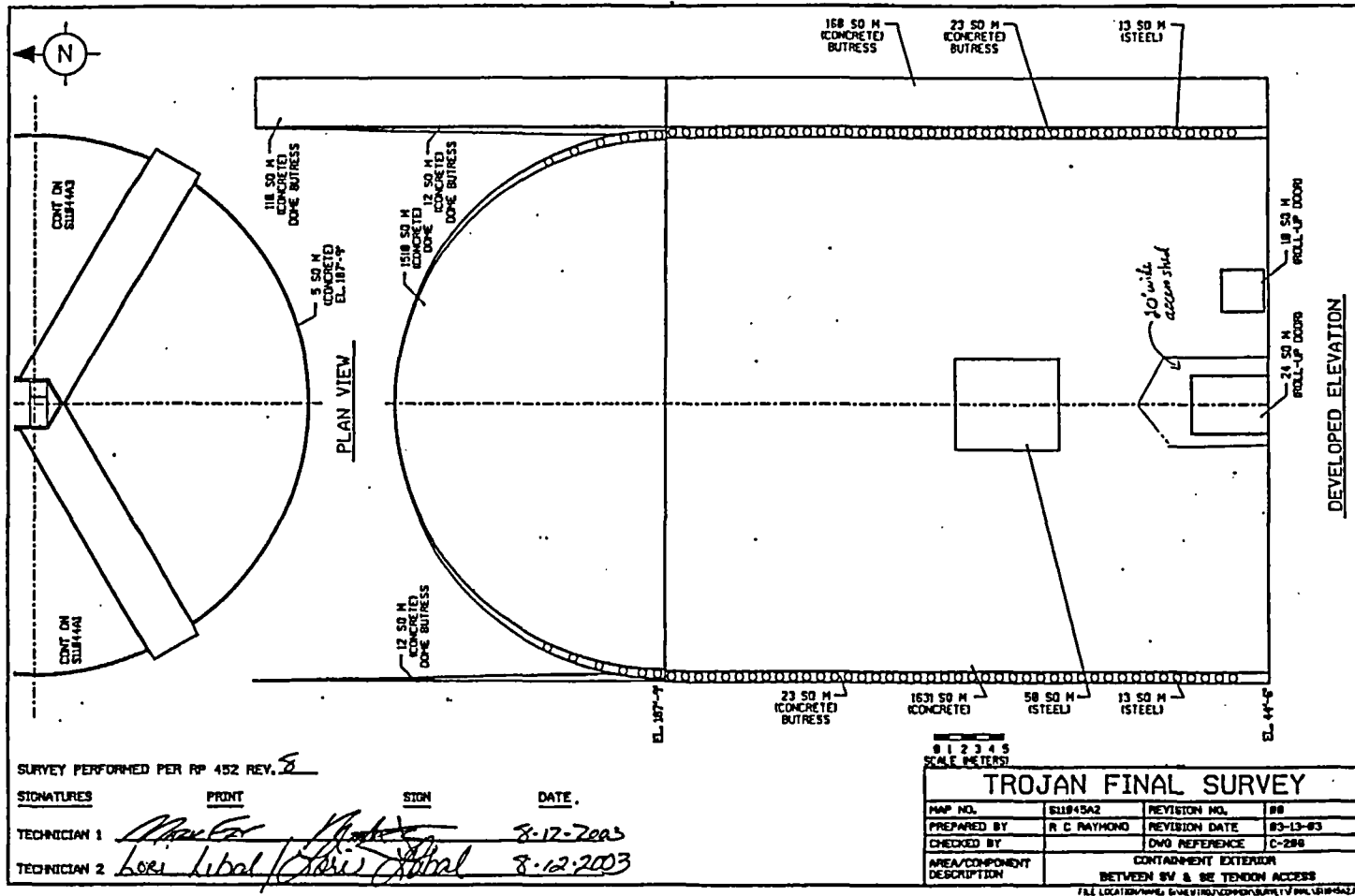
Survey Unit ID Code: S11045A

Survey Unit Name: Containment Building Walls, Buttresses, and Dome

Classification: Class 3

Size (m²): 9,460

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

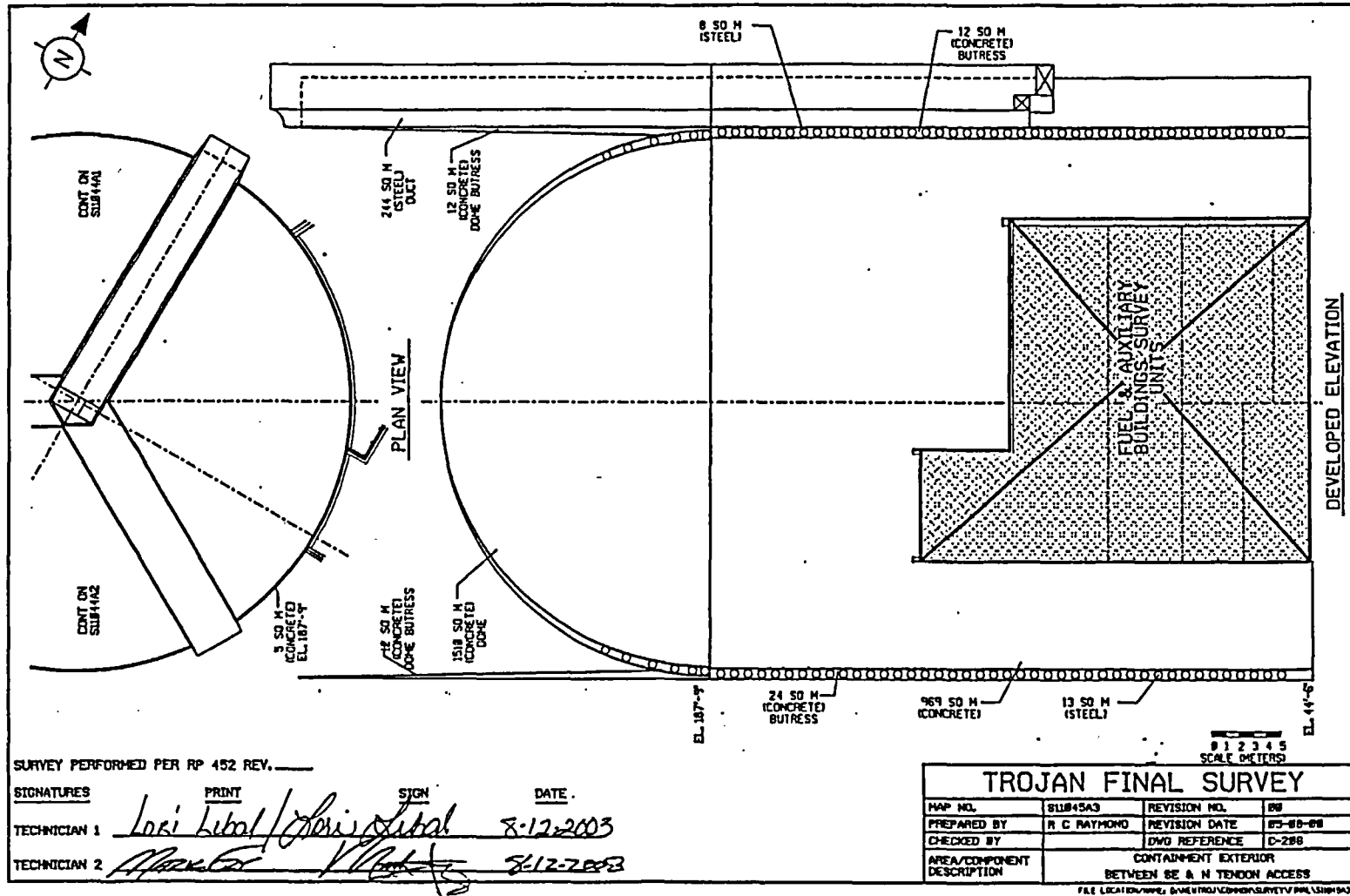
Survey Unit ID Code: S11045A

Survey Unit Name: Containment Building Walls, Buttresses, and Dome

Classification: Class 3

Size (m²): 9,460

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12045A

Classification: Class 3

Survey Unit Name: Turbine Building Lower North Exterior Wall

Size (m²): 212

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 9.882e+002
 Maximum Value : 1.332e+003
 Range : 3.438e+002
 Median : 1.129e+003
 Std. Deviation : 7.273e+001
 Mean : 1.135e+003
 95% UCL : 1.158e+003

Measurement Values

Location	Value	Location	Value
000001	1.015e+003	000018	1.126e+003
000002	1.126e+003	000019	1.080e+003
000003	1.206e+003	000020	1.164e+003
000004	1.179e+003	000021	1.065e+003
000005	1.232e+003	000022	9.882e+002
000006	1.057e+003	000023	1.118e+003
000007	1.137e+003	000024	1.114e+003
000008	1.225e+003	000025	1.190e+003
000009	1.179e+003	000026	1.187e+003
000010	1.221e+003	000027	1.072e+003
000011	1.061e+003	000028	1.129e+003
000012	1.076e+003	000029	1.149e+003
000013	1.084e+003	000030	1.332e+003
000014	1.198e+003		
000015	1.129e+003		
000016	1.145e+003		
000017	1.076e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12045A

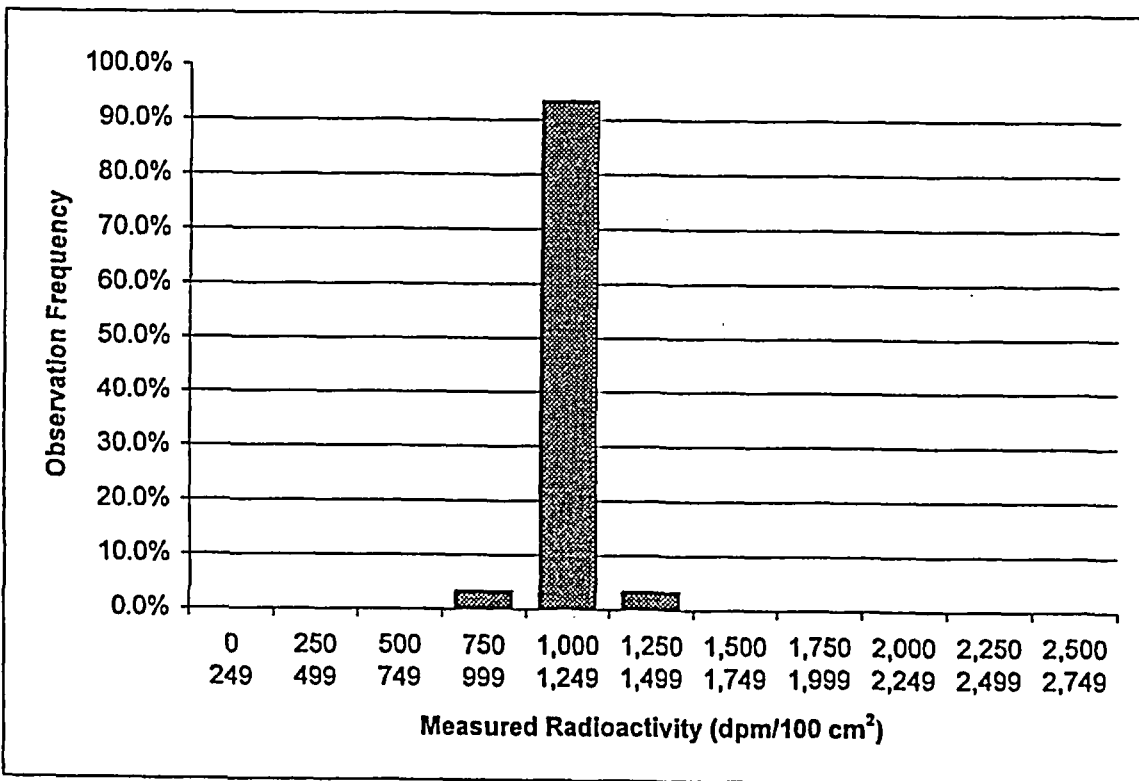
Classification: Class 3

Survey Unit Name: Turbine Building Lower North Exterior Wall

Size (m²): 212

Measurement Data Statistical Evaluation

Statistical Quantiles Tests				Statistical Quantities	
Test	Value	Criteria	Acceptable?	Range:	344
Range	344	364	Pass	Median:	1,129
Median	0.087	0.500	Pass	Mean:	1,135
Mean	1,135	10,500	Pass	Std Dev:	73
Std Dev	73	4,200	Pass	Minimum:	988
				Maximum:	1,332
				DCGL:	21,000



Plot Parameters		Interval	High	Low	Number	Frequency
# of measurements:	30	1	249	0	0	0.0%
# of intervals:	11	2	499	250	0	0.0%
Interval increment:	250	3	749	500	0	0.0%
Minimum:	0	4	999	750	1	3.3%
Maximum:	2,749	5	1,249	1,000	28	93.3%
		6	1,499	1,250	1	3.3%
		7	1,749	1,500	0	0.0%
		8	1,999	1,750	0	0.0%
		9	2,249	2,000	0	0.0%
		10	2,499	2,250	0	0.0%
		11	2,749	2,500	0	0.0%
		Total:			30	100%

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12045A

Classification: Class 3

Survey Unit Name: Turbine Building Lower North Exterior Wall

Size (m²): 212

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 5

Measurement Units: dpm/100cm²

Investigation Level: 21,000

Minimum Value: 1,300

Maximum Value: 1,506

Discussion of Anomalous Measurement Data

Investigation Summary

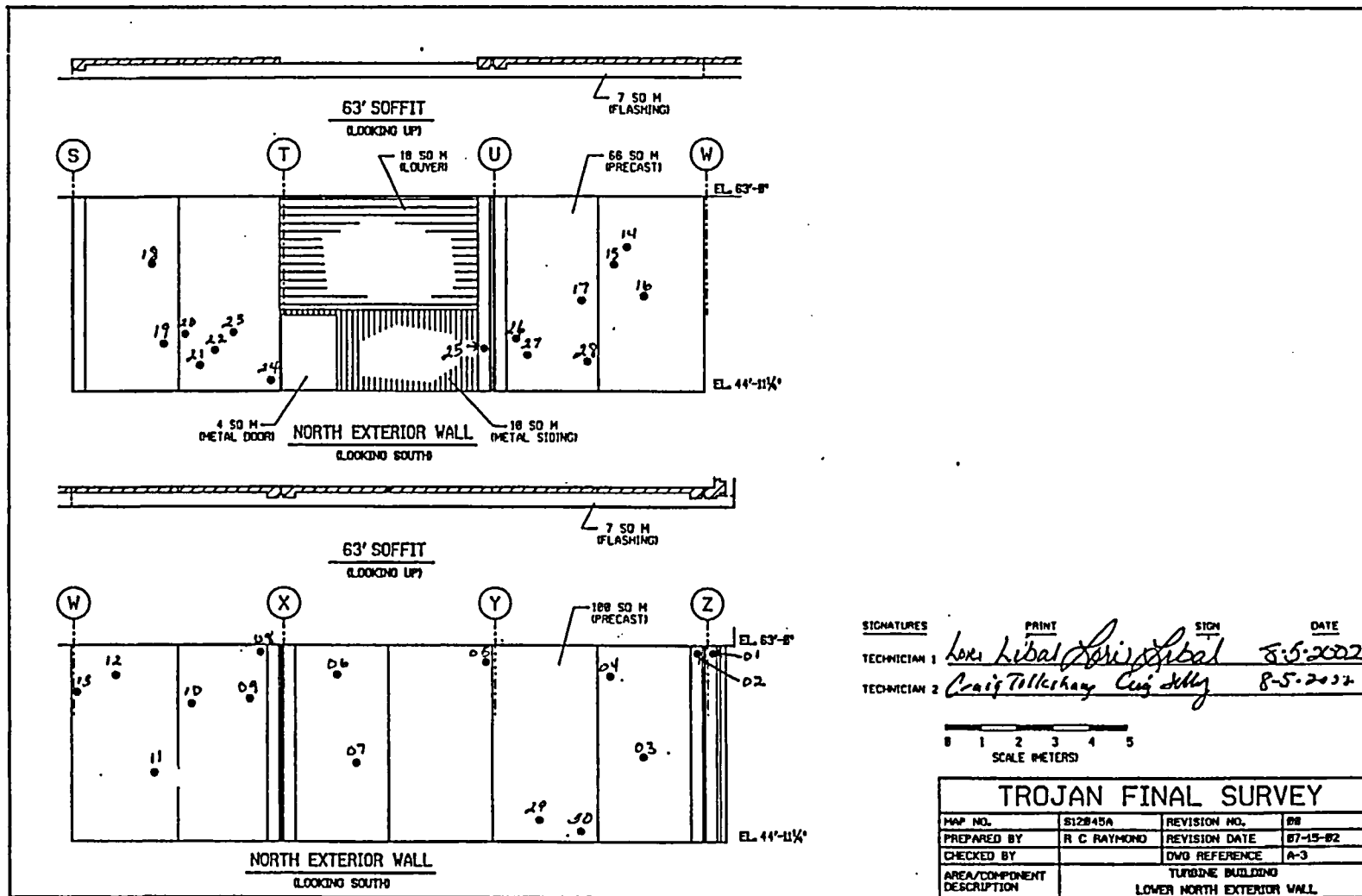
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12045A
 Survey Unit Name: Turbine Building Lower North Exterior Wall

Classification: Class 3
 Size (m²): 212

Static Measurement Locations Map



SIGNATURES PRINT SIGN DATE
 TECHNICIAN 1: *Lore Libal* Lore Libal 8-5-2002
 TECHNICIAN 2: *Craig Tollerkey* Craig Tollerkey 8-5-2002



TROJAN FINAL SURVEY			
MAP NO.	S12045A	REVISION NO.	00
PREPARED BY	R C RAYMOND	REVISION DATE	07-15-02
CHECKED BY		DWG REFERENCE	A-3
AREA/COMPONENT DESCRIPTION	TURBINE BUILDING LOWER NORTH EXTERIOR WALL		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12045B
 Survey Unit Name: Turbine Building West Exterior Walls

Classification: Class 3
 Size (m²): 564

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 6.133e+002
 Maximum Value : 1.319e+003
 Range : 7.057e+002
 Median : 1.050e+003
 Std. Deviation : 2.138e+002
 Mean : 9.820e+002
 95% UCL : 1.048e+003

Measurement Values

Location	Value	Location	Value
000001	7.776e+002	000018	7.937e+002
000002	6.734e+002	000019	1.006e+003
000003	1.086e+003	000020	7.616e+002
000004	1.190e+003	000021	1.150e+003
000005	1.162e+003	000022	1.106e+003
000006	1.146e+003	000023	7.295e+002
000007	6.614e+002	000024	1.086e+003
000008	6.133e+002	000025	1.014e+003
000009	1.110e+003	000026	7.375e+002
000010	6.854e+002	000027	1.002e+003
000011	7.776e+002	000028	7.616e+002
000012	1.319e+003	000029	1.207e+003
000013	1.243e+003	000030	1.223e+003
000014	1.194e+003		
000015	1.142e+003		
000016	1.110e+003		
000017	9.901e+002		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12045B
Survey Unit Name: Turbine Building West Exterior Walls

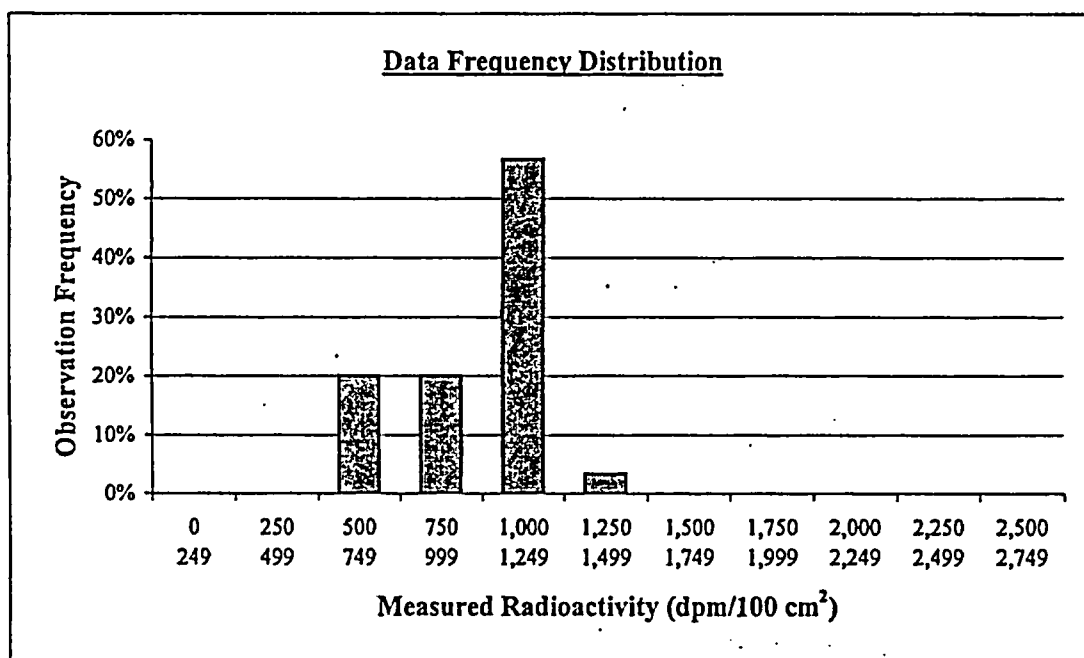
Classification: Class 3
Size (m²): 564

Measurement Data Statistical Evaluation

Statistical Comparisons			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	706	1,069	Pass
Median	0.318	0.500	Pass
Mean	982	10,500	Pass
Std Dev	214	4,200	Pass

Statistical Quantities	
Range:	706
Median:	1,050
Mean:	982
Std Dev:	214
Minimum:	613
Maximum:	1,319
DCGL:	21,000

All data less than DCGL; Sign statistical test not required.



Plot Parameters	
# of measurements:	30
# of intervals:	11
Interval increment:	250
Minimum:	0
Maximum:	2,749

Comment:
NONE.

Interval	High End	Low End	Number of Observations	Observation Frequency
1	249	0	0	0%
2	499	250	0	0%
3	749	500	6	20%
4	999	750	6	20%
5	1,249	1,000	17	57%
6	1,499	1,250	1	3%
7	1,749	1,500	0	0%
8	1,999	1,750	0	0%
9	2,249	2,000	0	0%
10	2,499	2,250	0	0%
11	2,749	2,500	0	0%
Total:			30	100%

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12045B

Classification: Class 3

Survey Unit Name: Turbine Building West Exterior Walls

Size (m²): 564

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 5

Measurement Units: dpm/100cm²

Investigation Level: 21,000

Minimum Value: 815

Maximum Value: 1,600

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 2,100

Minimum Value: 3

Maximum Value: 17

Discussion of Anomalous Measurement Data

Investigation Summary

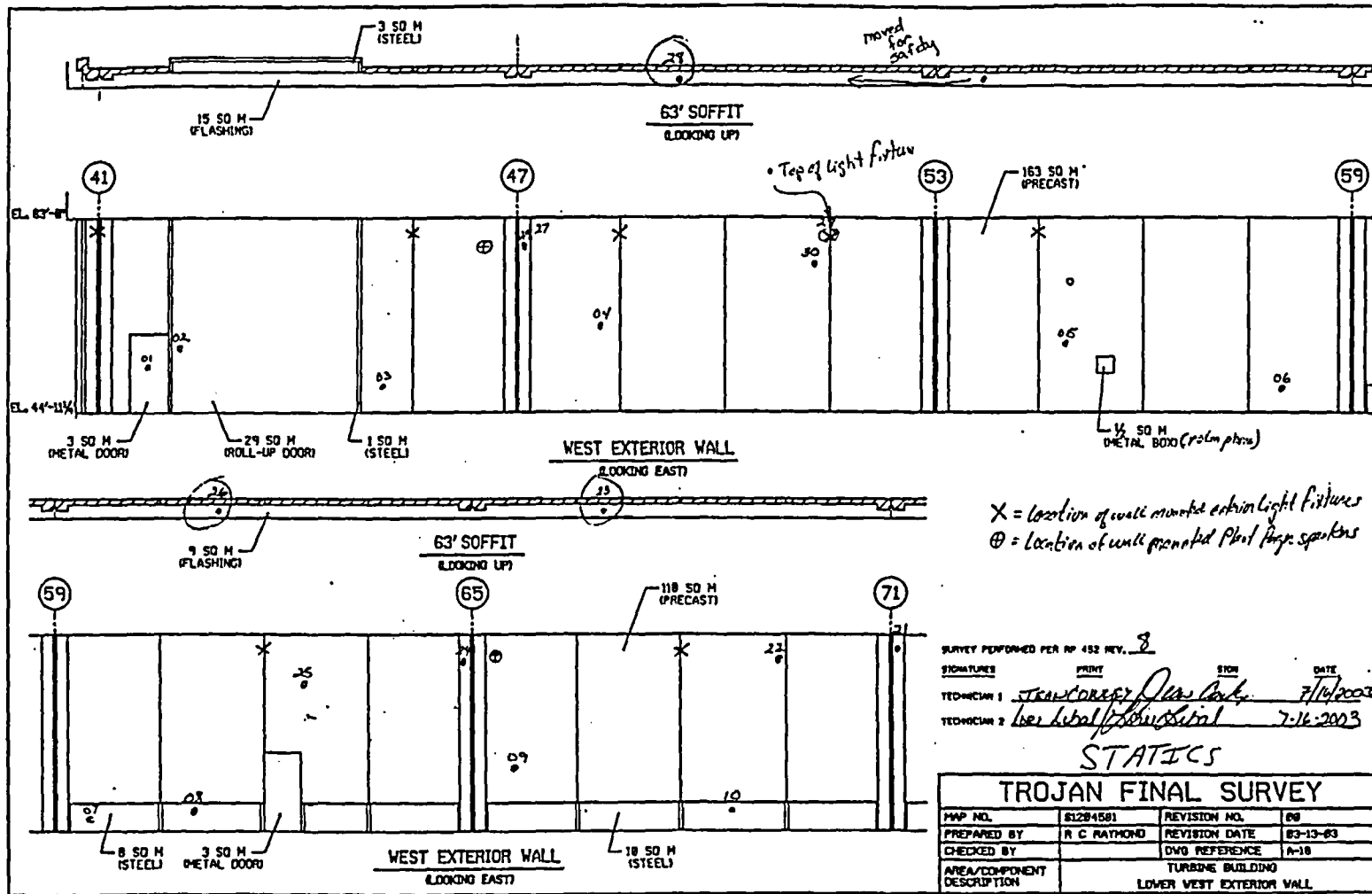
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12045B
 Survey Unit Name: Turbine Building West Exterior Walls

Classification: Class 3
 Size (m²): 564

Static Measurement Locations Map

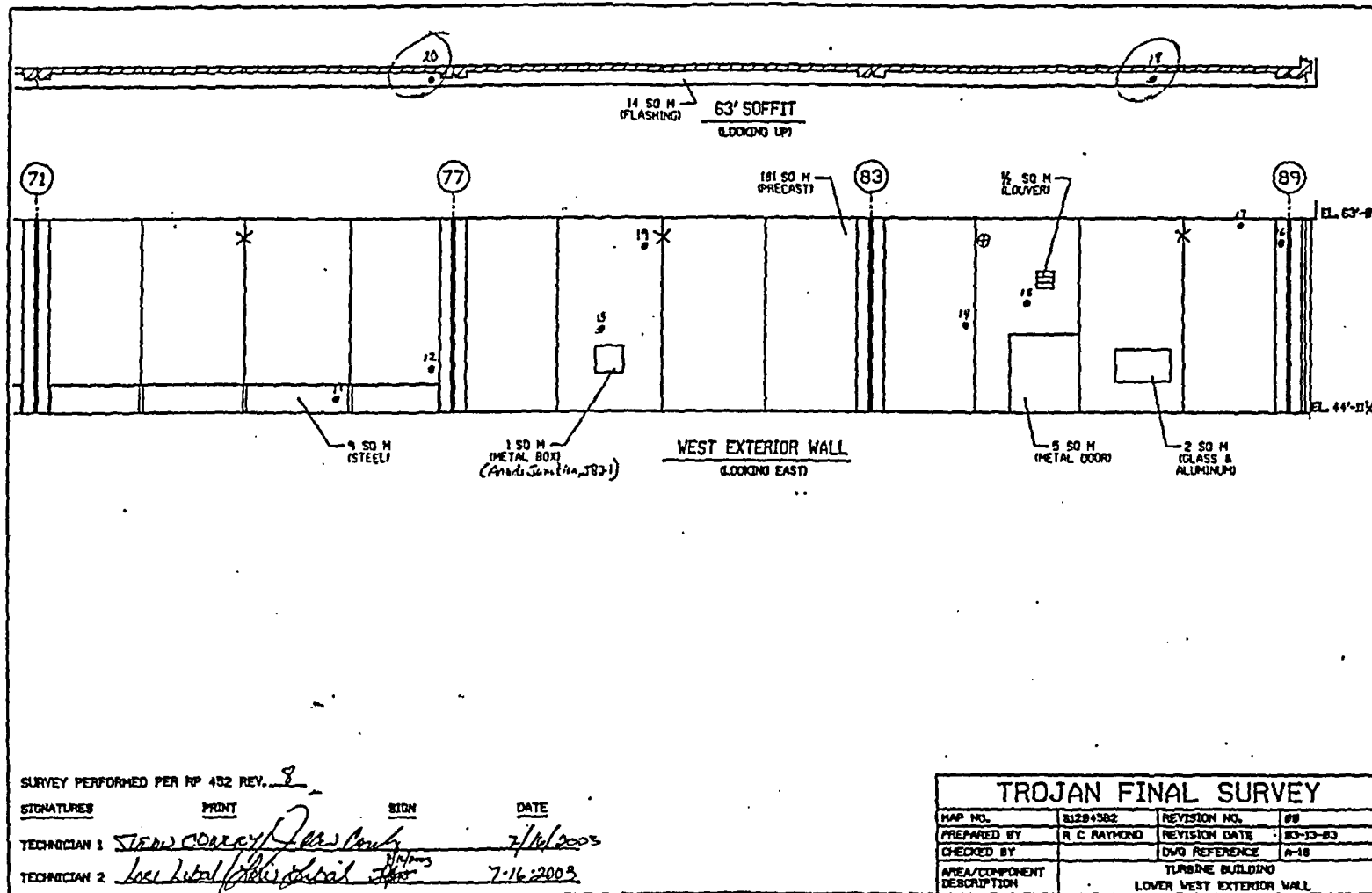


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12045B
 Survey Unit Name: Turbine Building West Exterior Walls

Classification: Class 3
 Size (m²): 564

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 8

SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	STEVEN CONLEY	<i>[Signature]</i>	7/16/2003
TECHNICIAN 2	LOUIE LUTAL	<i>[Signature]</i>	7-16-2003

TROJAN FINAL SURVEY			
MAP NO.	S12045B2	REVISION NO.	08
PREPARED BY	R. C. RAYMOND	REVISION DATE	03-13-03
CHECKED BY		DWG REFERENCE	R-16
AREA/COMPONENT DESCRIPTION	TURBINE BUILDING LOWER WEST EXTERIOR WALL		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12045C
Survey Unit Name: Turbine Building Lower South and East
 Exterior Walls

Classification: Class 3
Size (m²): 514

Data Quality Values

Type 1 Error : 5.000e-002 **Type 2 Error** : 5.000e-002
Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
Minimum Value : 8.297e+002
Maximum Value : 1.375e+003
Range : 5.453e+002
Median : 1.188e+003
Std. Deviation : 1.288e+002
Mean : 1.164e+003
95% UCL : 1.204e+003

Measurement Values

Location	Value	Location	Value
000001	1.034e+003	000018	9.019e+002
000002	1.375e+003	000019	1.122e+003
000003	1.279e+003	000020	1.186e+003
000004	1.207e+003	000021	1.138e+003
000005	1.319e+003	000022	1.207e+003
000006	1.263e+003	000023	1.194e+003
000007	1.295e+003	000024	1.275e+003
000008	1.198e+003	000025	1.066e+003
000009	1.315e+003	000026	1.211e+003
000010	1.227e+003	000027	1.142e+003
000011	1.363e+003	000028	8.297e+002
000012	1.118e+003	000029	1.018e+003
000013	9.700e+002	000030	1.074e+003
000014	1.190e+003		
000015	1.186e+003		
000016	1.110e+003		
000017	1.118e+003		

FINAL SURVEY RESULTS SUMMARY

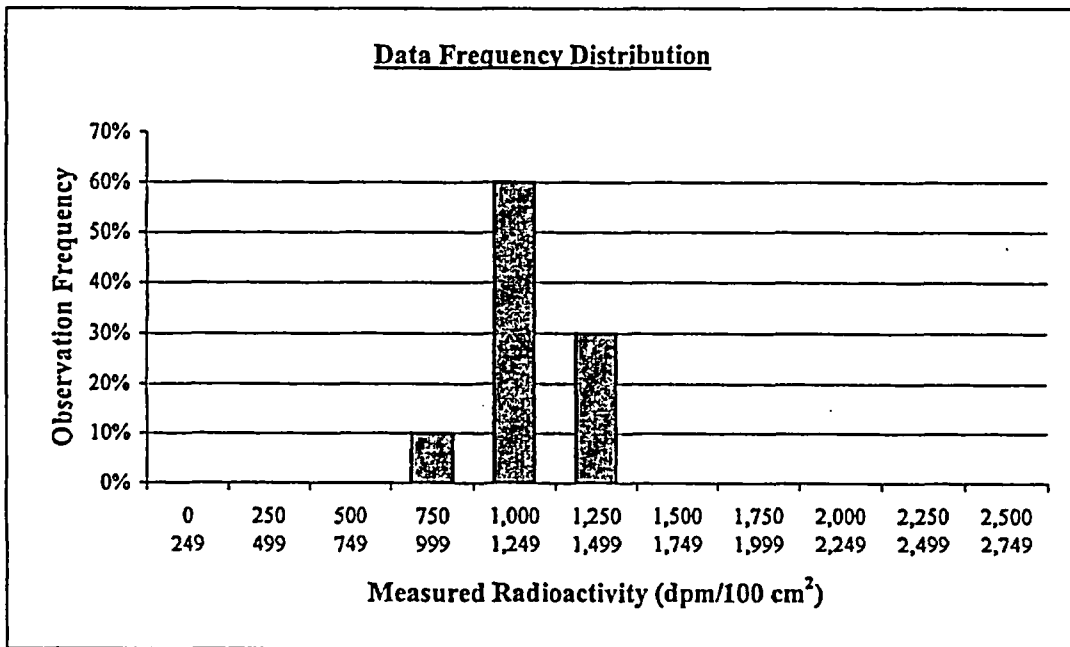
Survey Unit ID Code: S12045C
Survey Unit Name: Turbine Building Lower South and East
 Exterior Walls

Classification: Class 3
Size (m²): 514

Measurement Data Statistical Evaluation

<u>Statistical Comparisons</u>				<u>Statistical Quantities</u>	
Test	Calculated Value	Acceptance Criteria	Acceptable?		
Range	545	650	Pass	Range:	545
Median	0.165	0.500	Pass	Median:	1,188
Mean	1,167	10,500	Pass	Mean:	1,167
Std Dev	130	4,200	Pass	Std Dev:	130
				Minimum:	830
				Maximum:	1,375
				DCGL:	21,000

All data less than DCGL; Sign statistical test not required.



<u>Plot Parameters</u>		<u>Number of Observations</u>				
		Interval	High End	Low End	Observations	Frequency
# of measurements:	30	1	249	0	0	0%
# of intervals:	11	2	499	250	0	0%
Interval increment:	250	3	749	500	0	0%
Minimum:	0	4	999	750	3	10%
Maximum:	2,749	5	1,249	1,000	18	60%
		6	1,499	1,250	9	30%
		7	1,749	1,500	0	0%
		8	1,999	1,750	0	0%
		9	2,249	2,000	0	0%
		10	2,499	2,250	0	0%
		11	2,749	2,500	0	0%
		Total:			30	100%

Comment:
 NONE.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12045C

Classification: Class 3

Survey Unit Name: Turbine Building Lower South and East
Exterior Walls

Size (m²): 514

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 5

Measurement Units: dpm/100cm²

Investigation Level: 21,000

Minimum Value: 884

Maximum Value: 1,580

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 2,100

Minimum Value: 5

Maximum Value: 18

Discussion of Anomalous Measurement Data

Investigation Summary

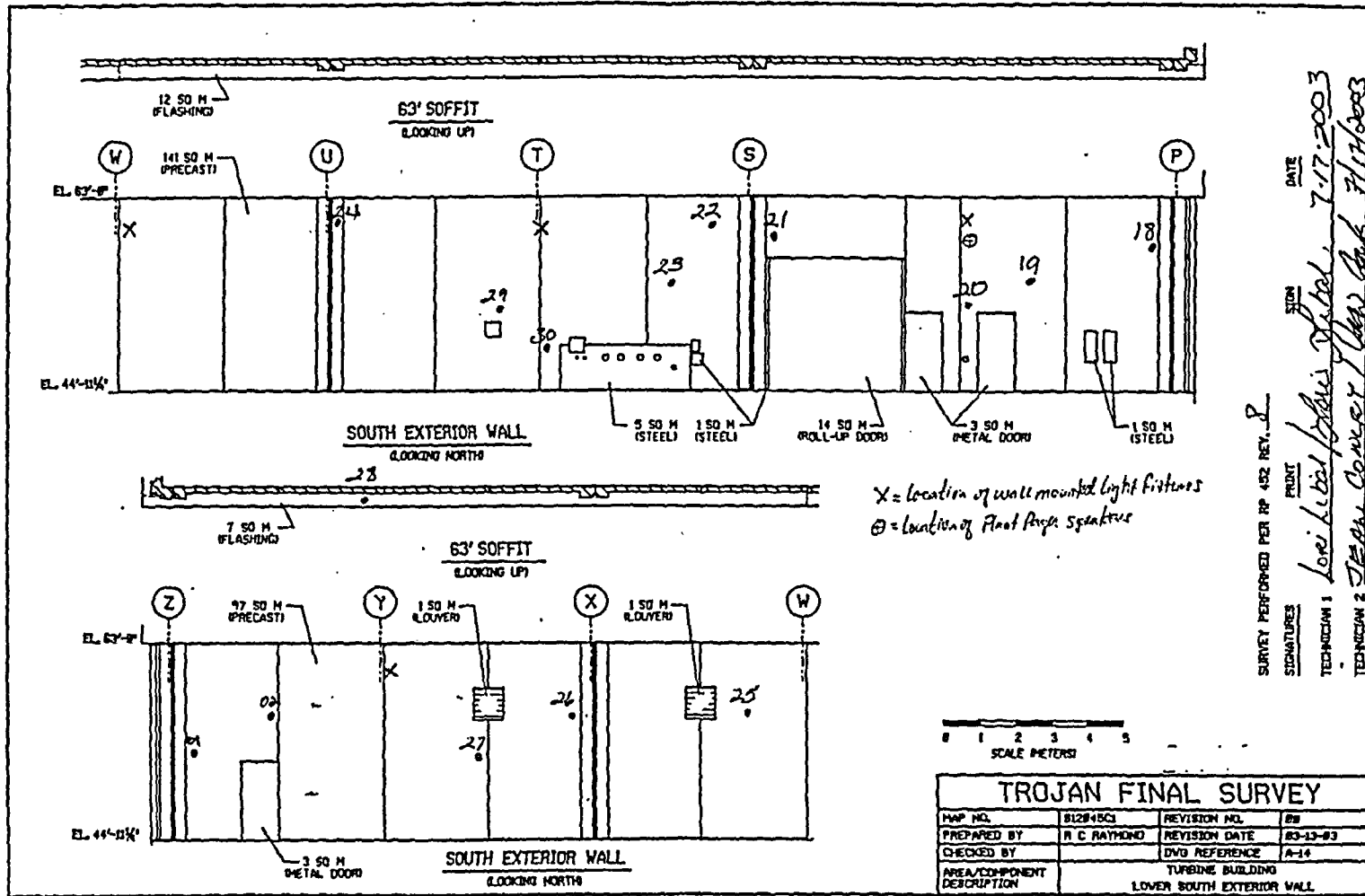
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12045C
 Survey Unit Name: Turbine Building Lower South and East Exterior Walls

Classification: Class 3
 Size (m²): 514

Static Measurement Locations Map

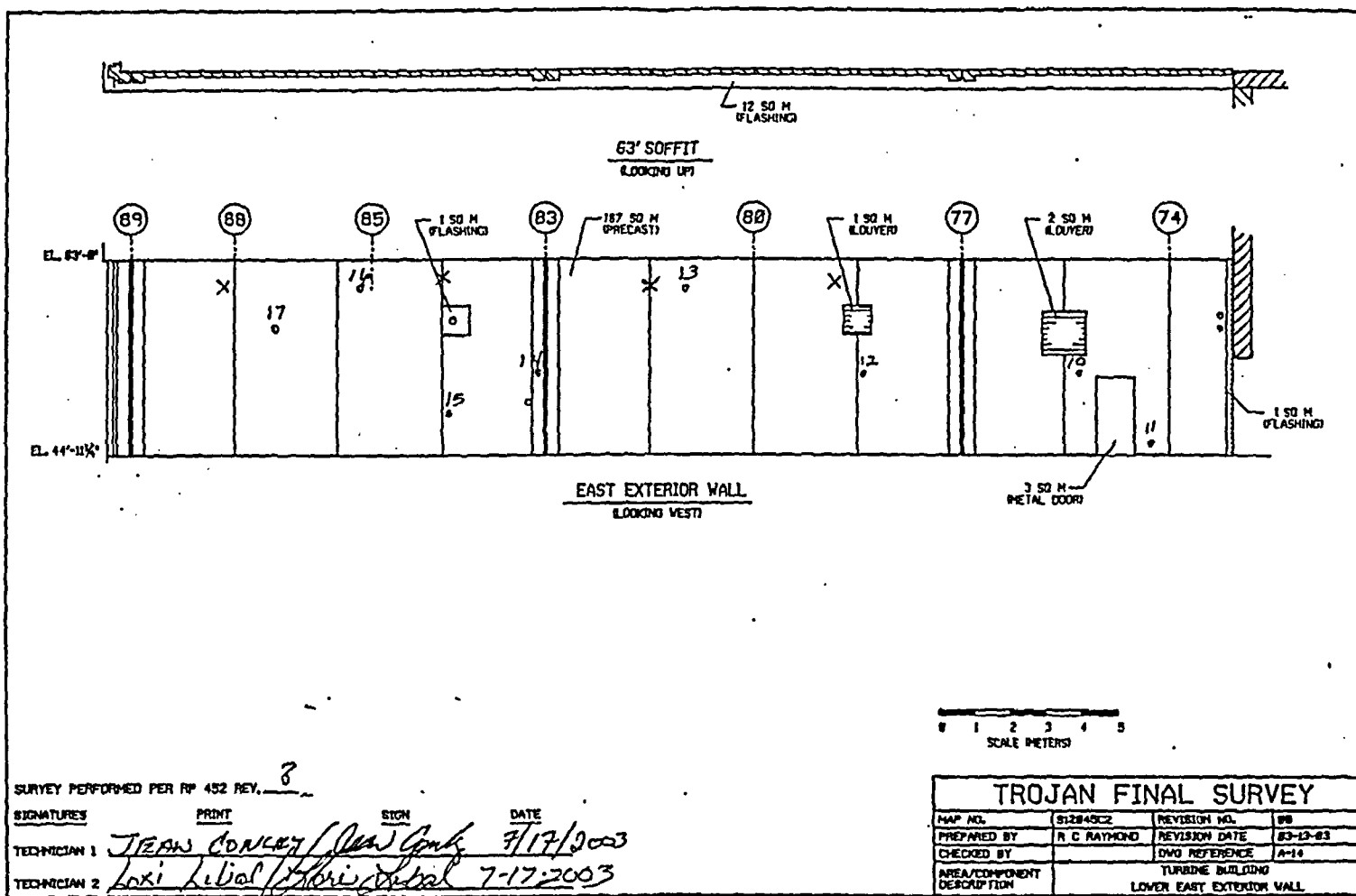


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12045C
 Survey Unit Name: Turbine Building Lower South and East Exterior Walls

Classification: Class 3
 Size (m²): 514

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

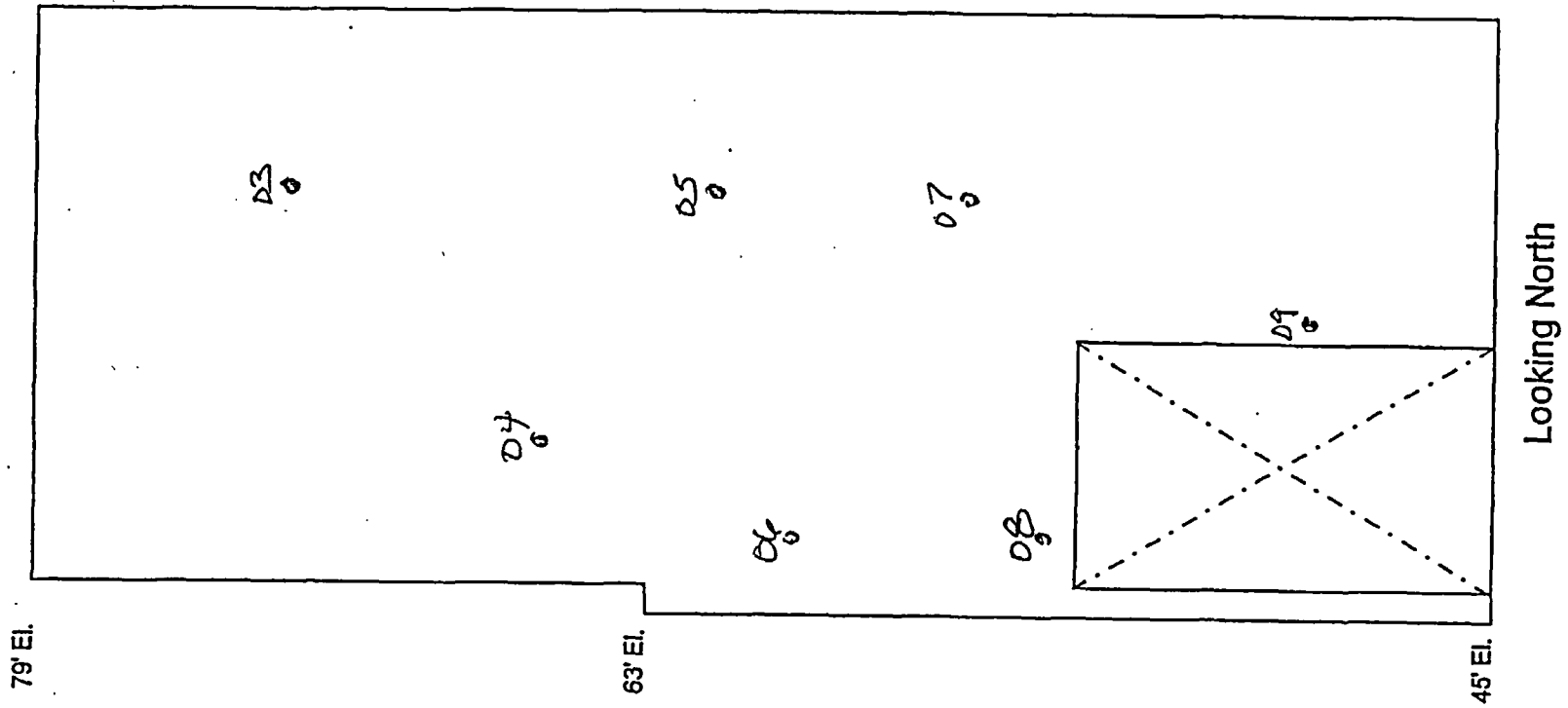
Survey Unit ID Code: S12045C

Survey Unit Name: Turbine Building Lower South and East Exterior Walls

Classification: Class 3

Size (m²): 514

Static Measurement Locations Map



Loxi Libal / Loxi Libal | 7-17-2003
 Survey Technician Date

Stew Coakley / Stew Coakley | 7/17/2003
 Survey Technician Date

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12063A

Classification: Class 3

Survey Unit Name: Turbine Building Upper North Exterior Wall

Size (m²): 1,105

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 1.293e+003
 Maximum Value : 1.756e+003
 Range : 4.630e+002
 Median : 1.486e+003
 Std. Deviation : 9.976e+001
 Mean : 1.484e+003
 95% UCL : 1.515e+003

Measurement Values

Location	Value	Location	Value
000001	1.361e+003	000018	1.580e+003
000002	1.351e+003	000019	1.293e+003
000003	1.502e+003	000020	1.400e+003
000004	1.366e+003	000021	1.434e+003
000005	1.444e+003	000022	1.517e+003
000006	1.561e+003	000023	1.444e+003
000007	1.522e+003	000024	1.634e+003
000008	1.756e+003	000025	1.405e+003
000009	1.493e+003	000026	1.541e+003
000010	1.424e+003	000027	1.595e+003
000011	1.468e+003	000028	1.571e+003
000012	1.473e+003	000029	1.346e+003
000013	1.395e+003	000030	1.576e+003
000014	1.478e+003		
000015	1.541e+003		
000016	1.561e+003		
000017	1.493e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12063A

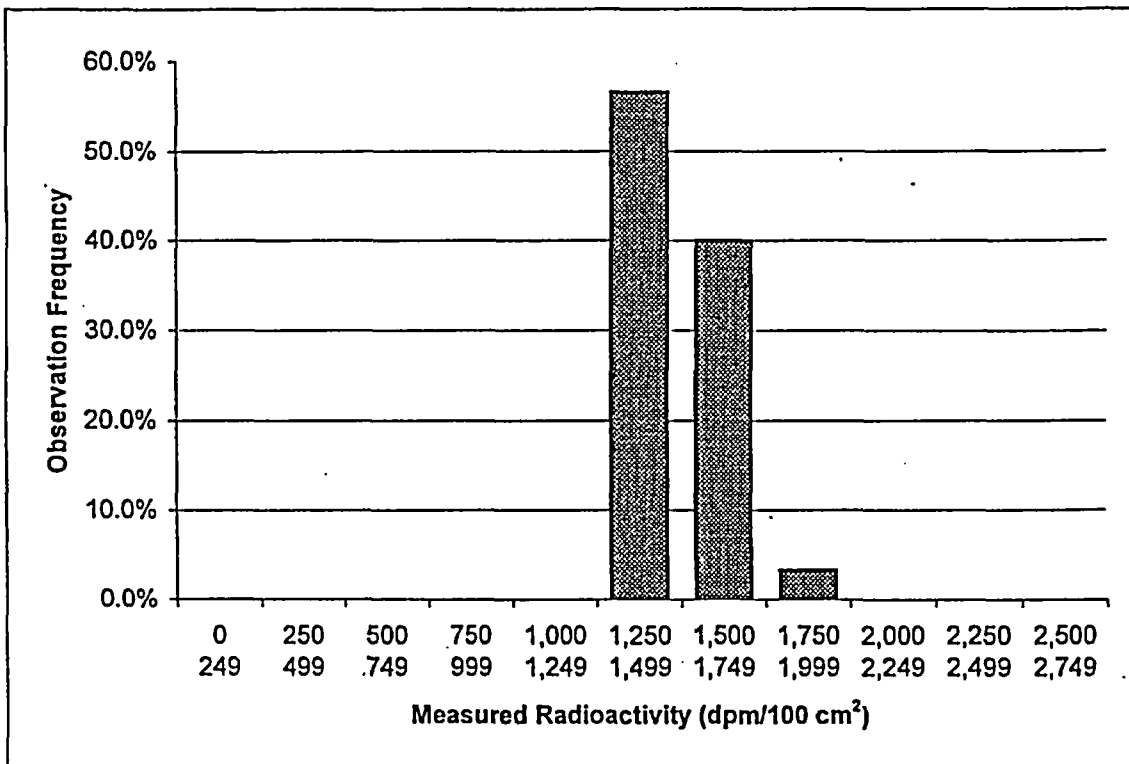
Classification: Class 3

Survey Unit Name: Turbine Building Upper North Exterior Wall

Size (m²): 1,105

Measurement Data Statistical Evaluation

Statistical Quantities Tests				Statistical Quantities	
Test	Calculated Value	Acceptance Criteria	Acceptable?		
Range	463	499	Pass	Range:	463
Median	0.013	0.500	Pass	Median:	1,486
Mean	1,484	10,500	Pass	Mean:	1,484
Std Dev	100	4,200	Pass	Std Dev:	100
				Minimum:	1,293
				Maximum:	1,756
				DCGL:	21,000



Plot Parameters		Interval	High	Low	Number	Frequency
# of measurements:	30	1	249	0	0	0.0%
# of intervals:	11	2	499	250	0	0.0%
Interval increment:	250	3	749	500	0	0.0%
Minimum:	0	4	999	750	0	0.0%
Maximum:	2,749	5	1,249	1,000	0	0.0%
		6	1,499	1,250	17	56.7%
		7	1,749	1,500	12	40.0%
		8	1,999	1,750	1	3.3%
		9	2,249	2,000	0	0.0%
		10	2,499	2,250	0	0.0%
		11	2,749	2,500	0	0.0%
		Total:			30	100%

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12063A

Classification: Class 3

Survey Unit Name: Turbine Building Upper North Exterior Wall

Size (m²): 1,105

Judgmental and Miscellaneous Measurement Data

No judgmental or miscellaneous data collected.

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

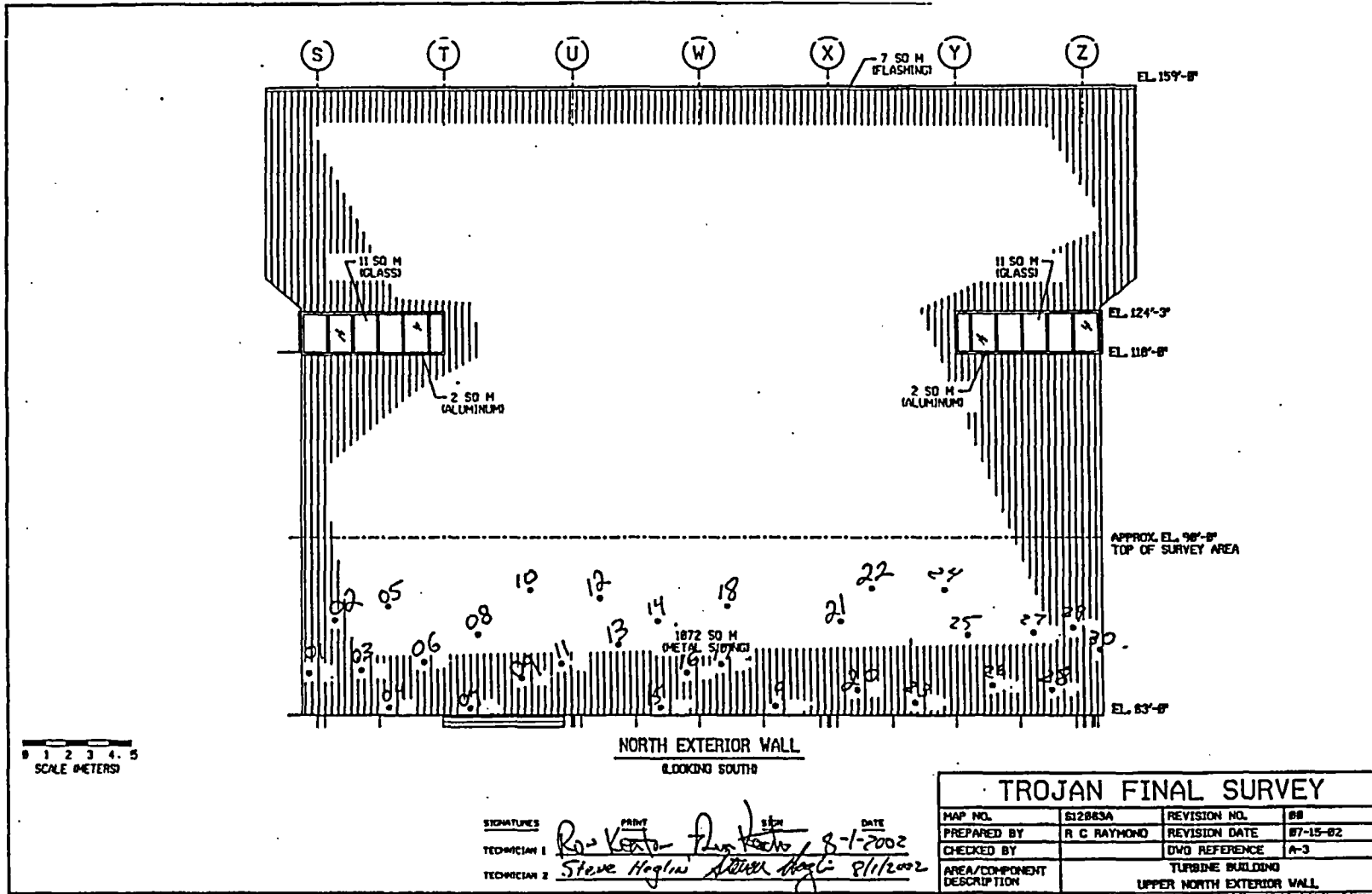
Survey Unit ID Code: S12063A

Survey Unit Name: Turbine Building Upper North Exterior Wall

Classification: Class 3

Size (m²): 1,105

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12063B

Classification: Class 3

Survey Unit Name: Turbine Building Upper West Exterior Walls

Size (m²): 2,753

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 5.572e+002
 Maximum Value : 2.337e+003
 Range : 1.780e+003
 Median : 7.516e+002
 Std. Deviation : 3.113e+002
 Mean : 8.108e+002
 95% UCL : 9.072e+002

Measurement Values

Location	Value	Location	Value
000001	5.772e+002	000018	7.896e+002
000002	6.494e+002	000019	6.934e+002
000003	5.572e+002	000020	9.740e+002
000004	5.612e+002	000021	8.177e+002
000005	7.375e+002	000022	7.135e+002
000006	7.135e+002	000023	8.618e+002
000007	8.137e+002	000024	2.337e+003
000008	8.899e+002	000025	9.059e+002
000009	7.937e+002	000026	8.858e+002
000010	7.015e+002	000027	8.538e+002
000011	5.972e+002	000028	9.620e+002
000012	6.093e+002	000029	7.456e+002
000013	7.055e+002	000030	8.858e+002
000014	6.734e+002		
000015	7.576e+002		
000016	8.738e+002		
000017	6.854e+002		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12063B

Classification: Class 3

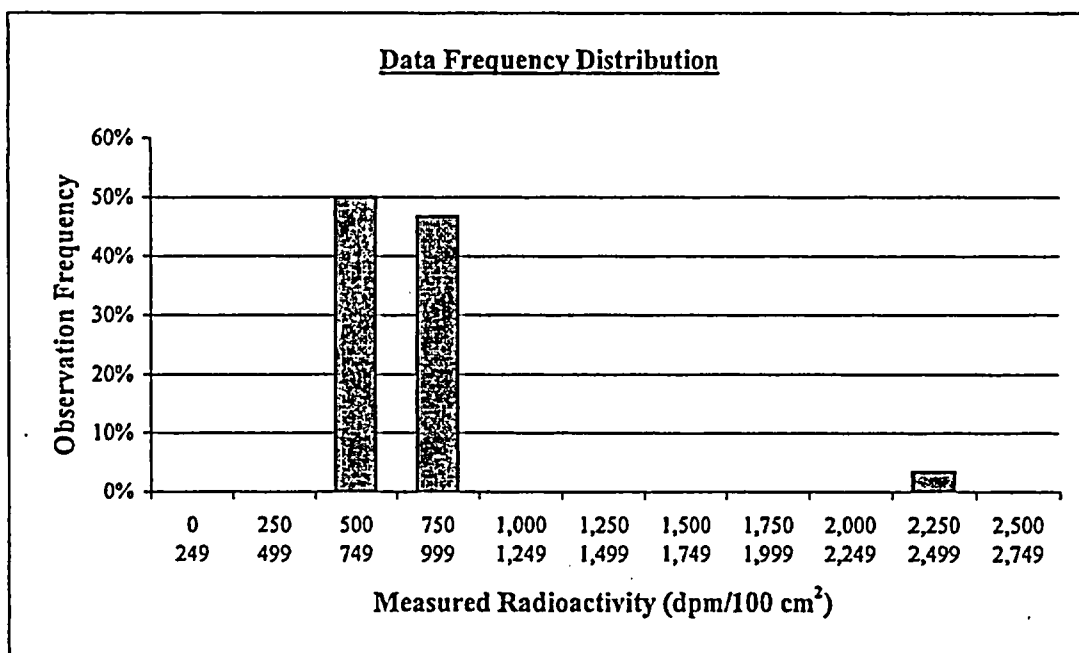
Survey Unit Name: Turbine Building Upper West Exterior Walls

Size (m²): 2,753

Measurement Data Statistical Evaluation

<u>Statistical Comparisons</u>				<u>Statistical Quantities</u>	
Test	Calculated Value	Acceptance Criteria	Acceptable?		
Range	1,780	1,557	See comment below	Range:	1,780
Median	0.189	0.500	Pass	Median:	752
Mean	811	10,500	Pass	Mean:	811
Std Dev	311	4,200	Pass	Std Dev:	311
				Minimum:	557
				Maximum:	2,337
				DCGL:	21,000

All data less than DCGL; Sign statistical test not required.



<u>Plot Parameters</u>	
# of measurements:	30
# of intervals:	11
Interval increment:	250
Minimum:	0
Maximum:	2,749

Interval	High End	Low End	Number of Observations	Observation Frequency
1	249	0	0	0%
2	499	250	0	0%
3	749	500	15	50%
4	999	750	14	47%
5	1,249	1,000	0	0%
6	1,499	1,250	0	0%
7	1,749	1,500	0	0%
8	1,999	1,750	0	0%
9	2,249	2,000	0	0%
10	2,499	2,250	1	3%
11	2,749	2,500	0	0%
Total:			30	100%

Comment:

Range failure is a test artifact resulting from a single measurement being relatively high compared to all the others, and a relatively small standard deviation.

All values are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12063B

Classification: Class 3

Survey Unit Name: Turbine Building Upper West Exterior Walls

Size (m²): 2,753

Judgmental and Miscellaneous Measurement Data

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 2,100

Minimum Value: 2

Maximum Value: 18

Discussion of Anomalous Measurement Data

Investigation Summary

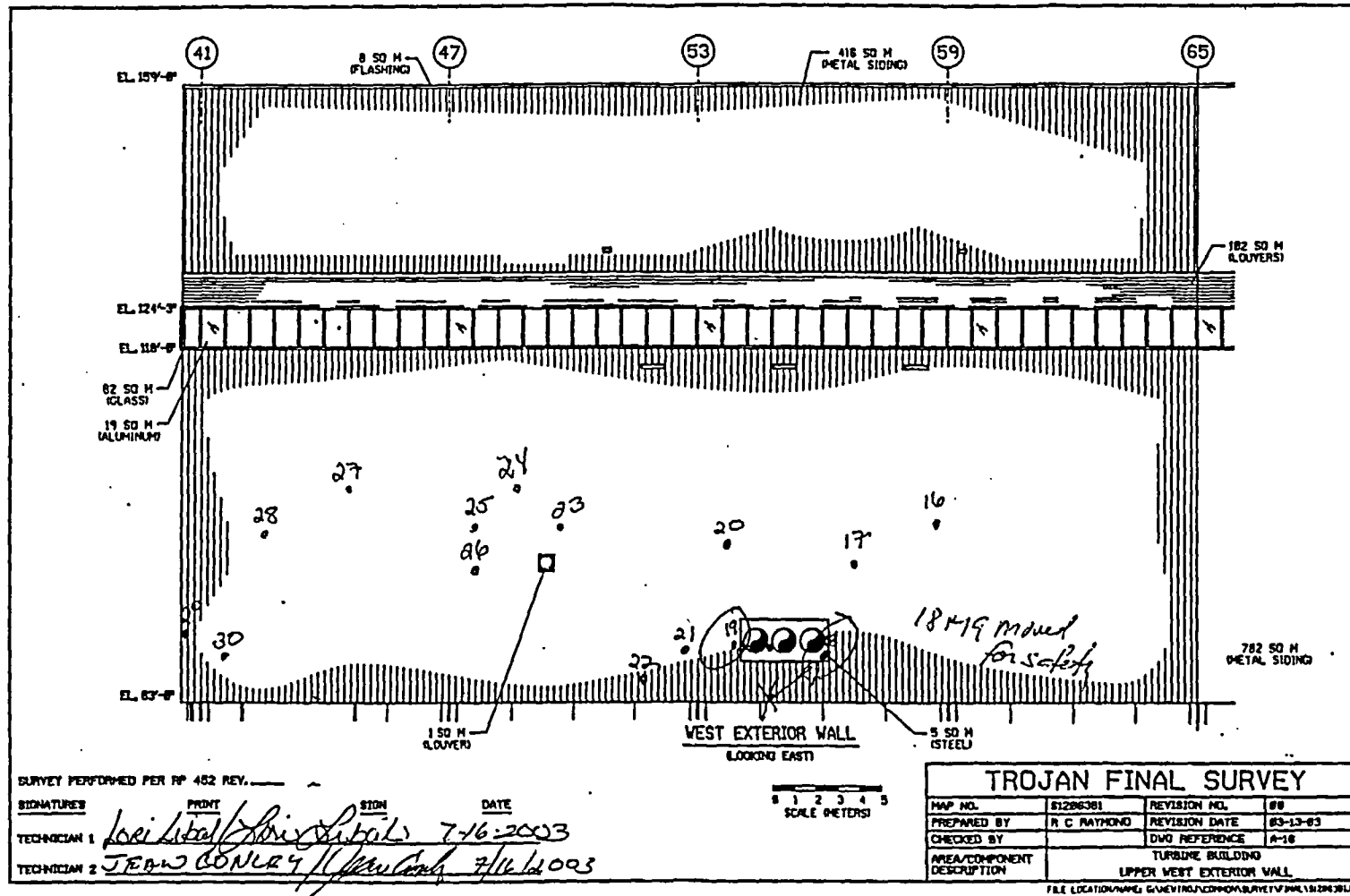
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12063B
 Survey Unit Name: Turbine Building Upper West Exterior Walls

Classification: Class 3
 Size (m²): 2,753

Static Measurement Locations Map

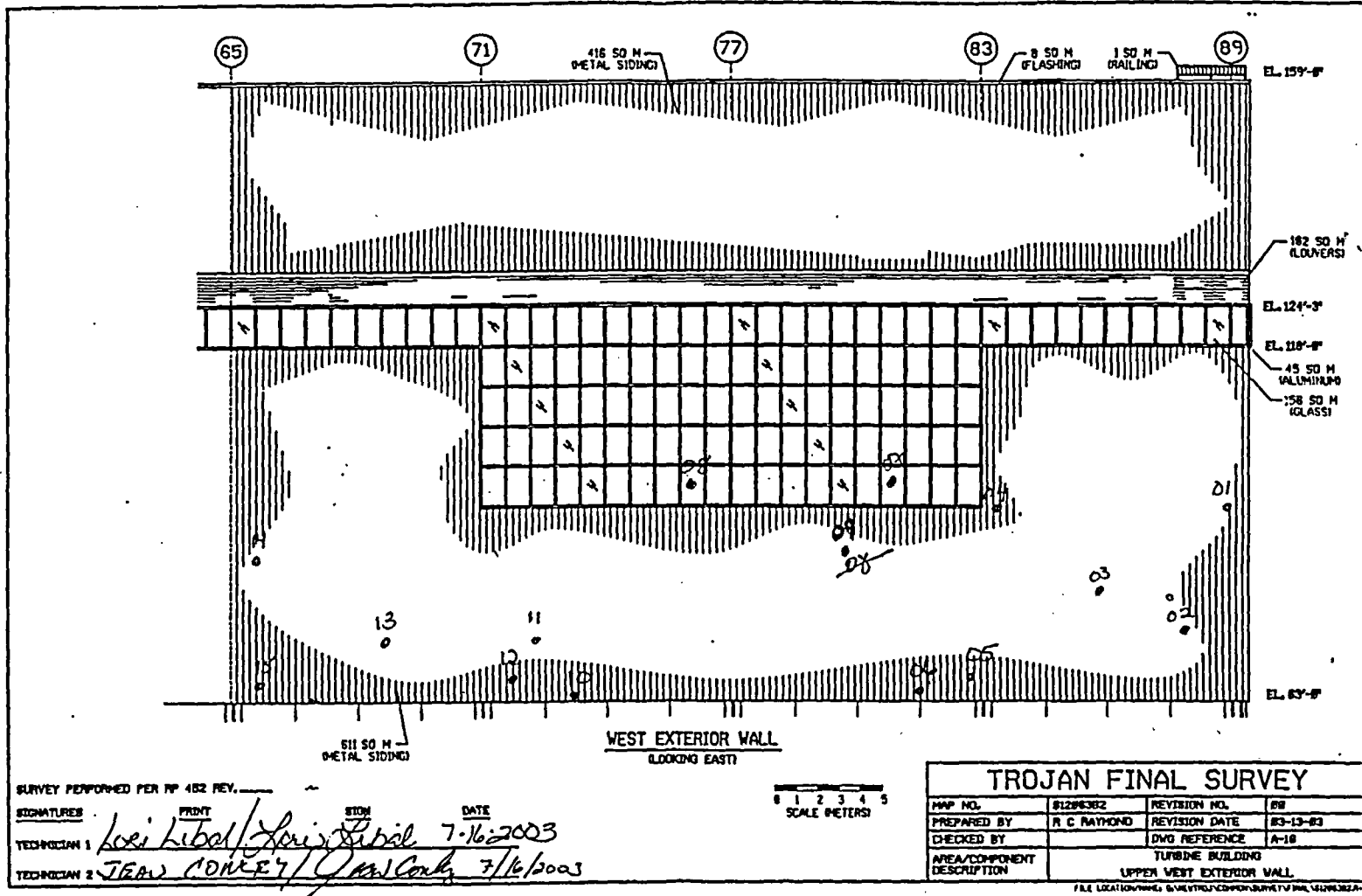


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12063B
 Survey Unit Name: Turbine Building Upper West Exterior Walls

Classification: Class 3
 Size (m²): 2,753

Static Measurement Locations Map



SURVEY PERFORMED PER RP 402 REV. _____

SIGNATURES: FRONT: *Loei Libal / Loei Libal* DATE: 7-16-2003
 TECHNICIAN 1: *Jean Conkey / Jean Conkey* DATE: 7/16/2003
 TECHNICIAN 2: _____

0 1 2 3 4 5
 SCALE (METERS)

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12063C
Survey Unit Name: Turbine Building Upper South and East
 Exterior Walls

Classification: Class 3
Size (m²): 1,840

Data Quality Values

Type 1 Error : 5.000e-002 **Type 2 Error** : 5.000e-002
Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
Minimum Value : 1.178e+003
Maximum Value : 2.395e+003
Range : 1.217e+003
Median : 1.448e+003
Std. Deviation : 4.076e+002
Mean : 1.567e+003
95% UCL : 1.694e+003

Measurement Values

Location	Value	Location	Value
000001	1.183e+003	000018	1.464e+003
000002	1.178e+003	000019	1.333e+003
000003	1.202e+003	000020	1.290e+003
000004	1.314e+003	000021	1.464e+003
000005	1.188e+003	000022	1.328e+003
000006	1.202e+003	000023	2.395e+003
000007	1.503e+003	000024	2.138e+003
000008	1.265e+003	000025	2.284e+003
000009	1.571e+003	000026	2.216e+003
000010	1.445e+003	000027	2.153e+003
000011	1.450e+003	000028	2.250e+003
000012	1.232e+003	000029	2.259e+003
000013	1.251e+003	000030	1.905e+003
000014	1.275e+003		
000015	1.464e+003		
000016	1.455e+003		
000017	1.362e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12063C
Survey Unit Name: Turbine Building Upper South and East
 Exterior Walls

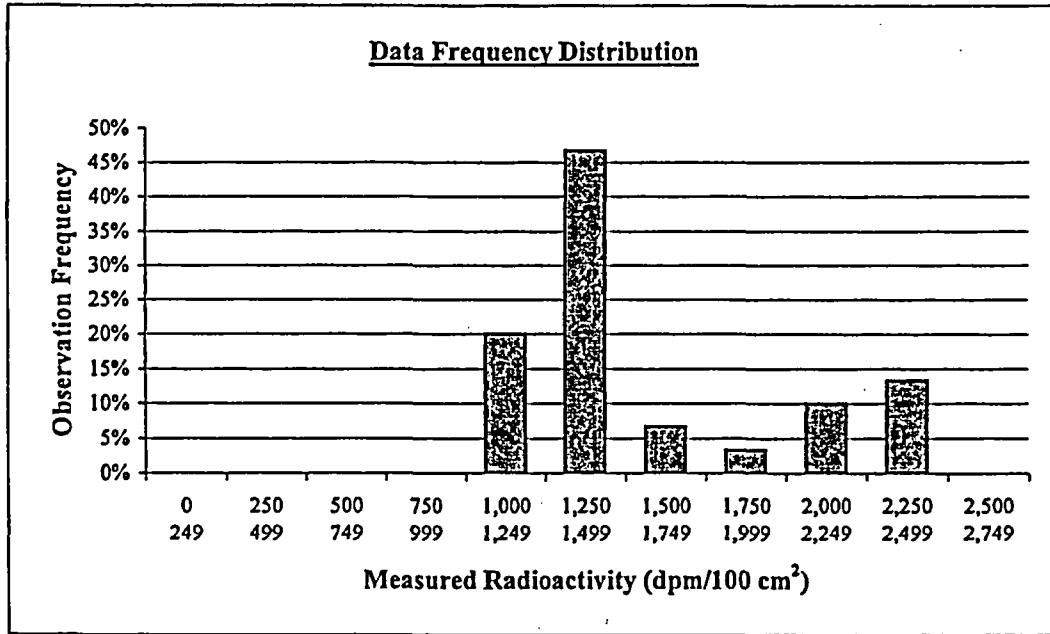
Classification: Class 3
Size (m²): 1,840

Measurement Data Statistical Evaluation

Statistical Comparisons			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	1,217	2,038	Pass
Median	0.294	0.500	Pass
Mean	1,567	10,500	Pass
Std Dev	408	4,200	Pass

Statistical Quantities	
Range:	1,217
Median:	1,448
Mean:	1,567
Std Dev:	408
Minimum:	1,178
Maximum:	2,395
DCGL:	21,000

All data less than DCGL; Sign statistical test not required.



Plot Parameters	
# of measurements:	30
# of intervals:	11
Interval increment:	250
Minimum:	0
Maximum:	2,749

Comment:
 NONE.

Interval	High End	Low End	Number of Observations	Observation Frequency
1	249	0	0	0%
2	499	250	0	0%
3	749	500	0	0%
4	999	750	0	0%
5	1,249	1,000	6	20%
6	1,499	1,250	14	47%
7	1,749	1,500	2	7%
8	1,999	1,750	1	3%
9	2,249	2,000	3	10%
10	2,499	2,250	4	13%
11	2,749	2,500	0	0%
Total:			30	100%

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12063C

Classification: Class 3

Survey Unit Name: Turbine Building Upper South and East
Exterior Walls

Size (m²): 1,840

Judgmental and Miscellaneous Measurement Data

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 2,100

Minimum Value: 3

Maximum Value: 21

Discussion of Anomalous Measurement Data

Investigation Summary

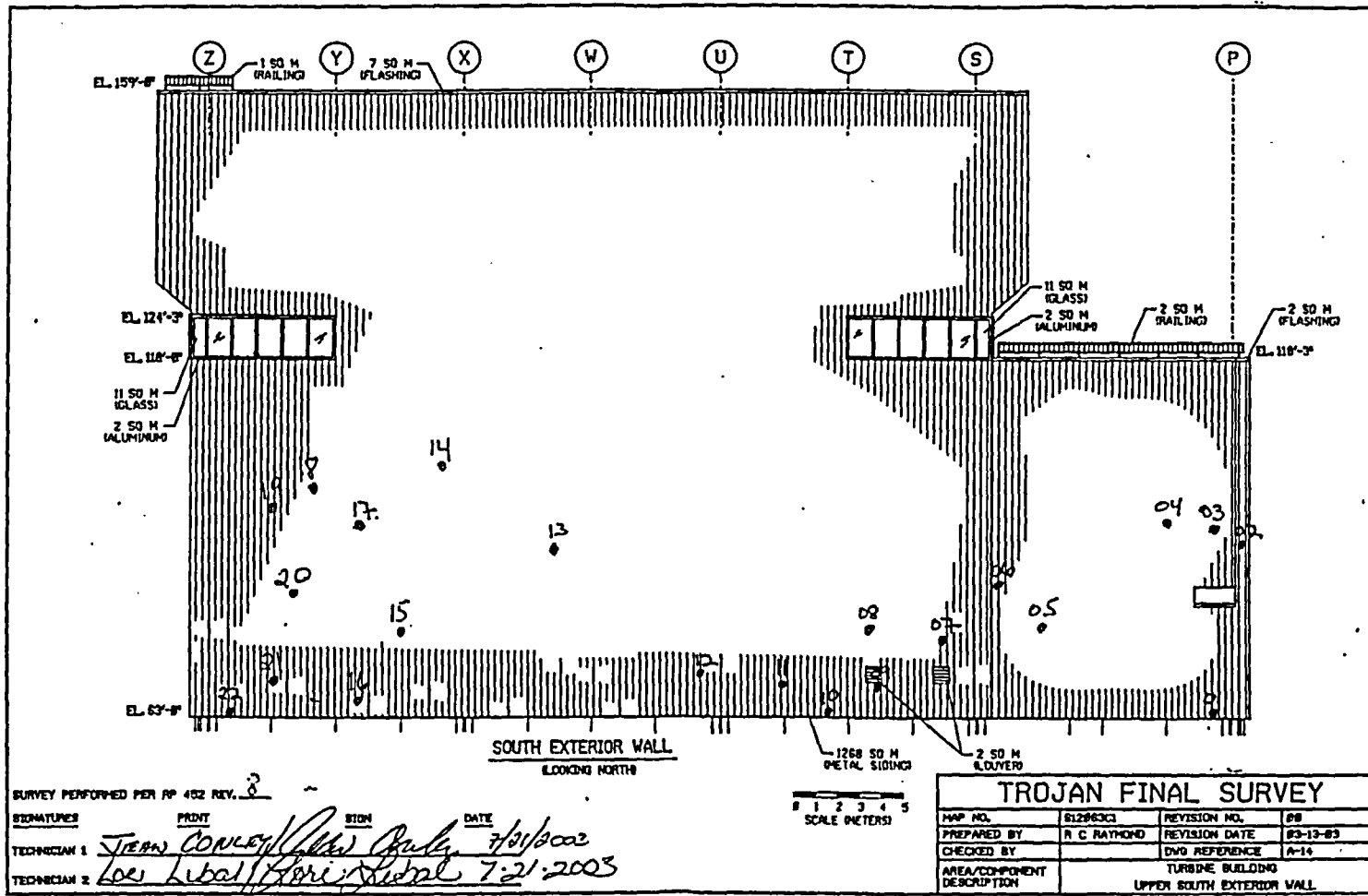
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12063C
 Survey Unit Name: Turbine Building Upper South and East
 Exterior Walls

Classification: Class 3
 Size (m²): 1,840

Static Measurement Locations Map

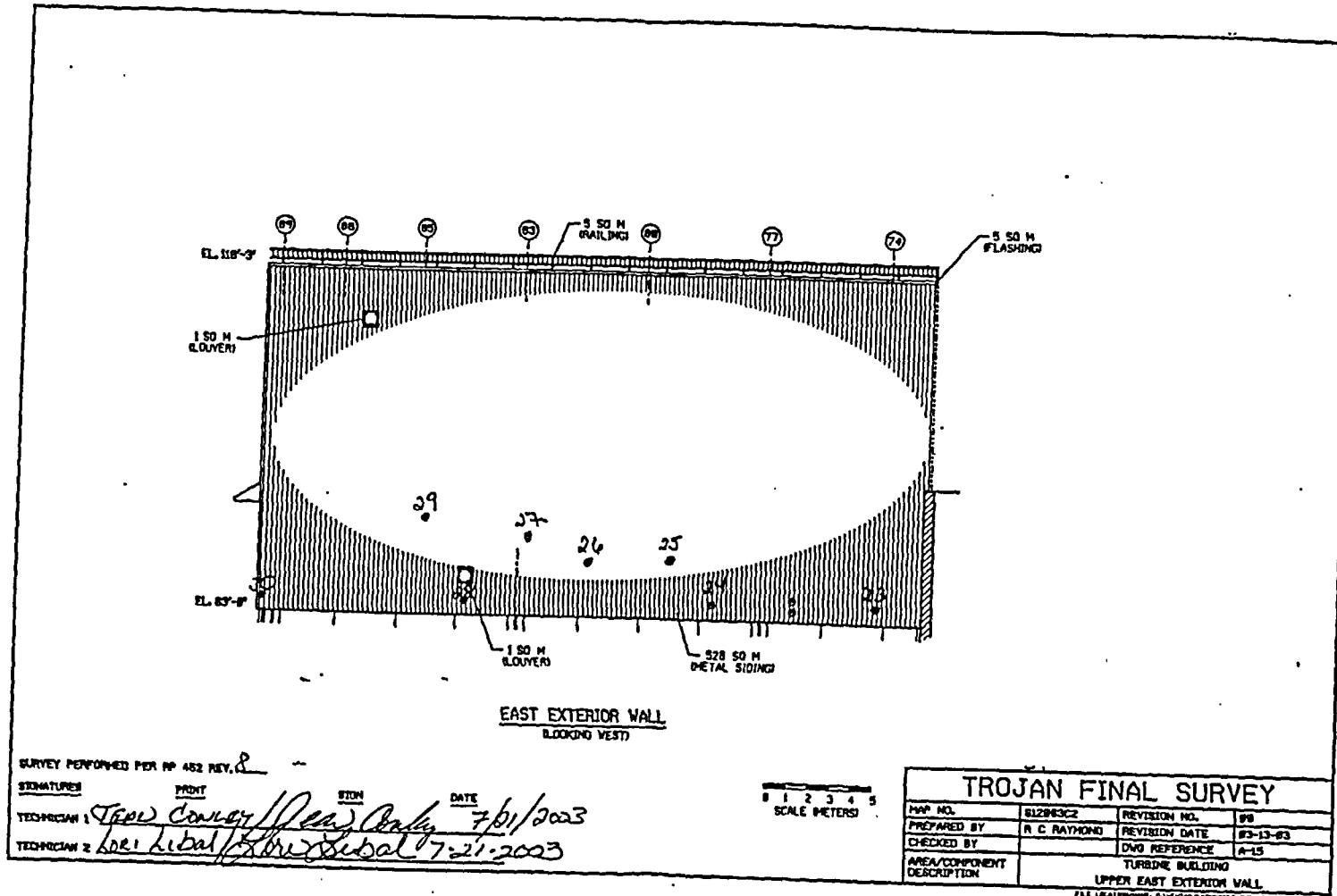


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12063C
 Survey Unit Name: Turbine Building Upper South and East
 Exterior Walls

Classification: Class 3
 Size (m²): 1,840

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12116A

Classification: Class 3

Survey Unit Name: Turbine Building Upper East Exterior Wall

Size (m²): 1,284

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 1.376e+003
 Maximum Value : 1.741e+003
 Range : 3.650e+002
 Median : 1.481e+003
 Std. Deviation : 9.270e+001
 Mean : 1.495e+003
 95% UCL : 1.524e+003

Measurement Values

Location	Value	Location	Value
000001	1.488e+003	000018	1.576e+003
000002	1.415e+003	000019	1.507e+003
000003	1.478e+003	000020	1.522e+003
000004	1.463e+003	000021	1.385e+003
000005	1.478e+003	000022	1.410e+003
000006	1.527e+003	000023	1.483e+003
000007	1.376e+003	000024	1.376e+003
000008	1.434e+003	000025	1.532e+003
000009	1.488e+003	000026	1.683e+003
000010	1.376e+003	000027	1.639e+003
000011	1.741e+003	000028	1.556e+003
000012	1.439e+003	000029	1.576e+003
000013	1.444e+003	000030	1.649e+003
000014	1.468e+003		
000015	1.449e+003		
000016	1.415e+003		
000017	1.488e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12116A

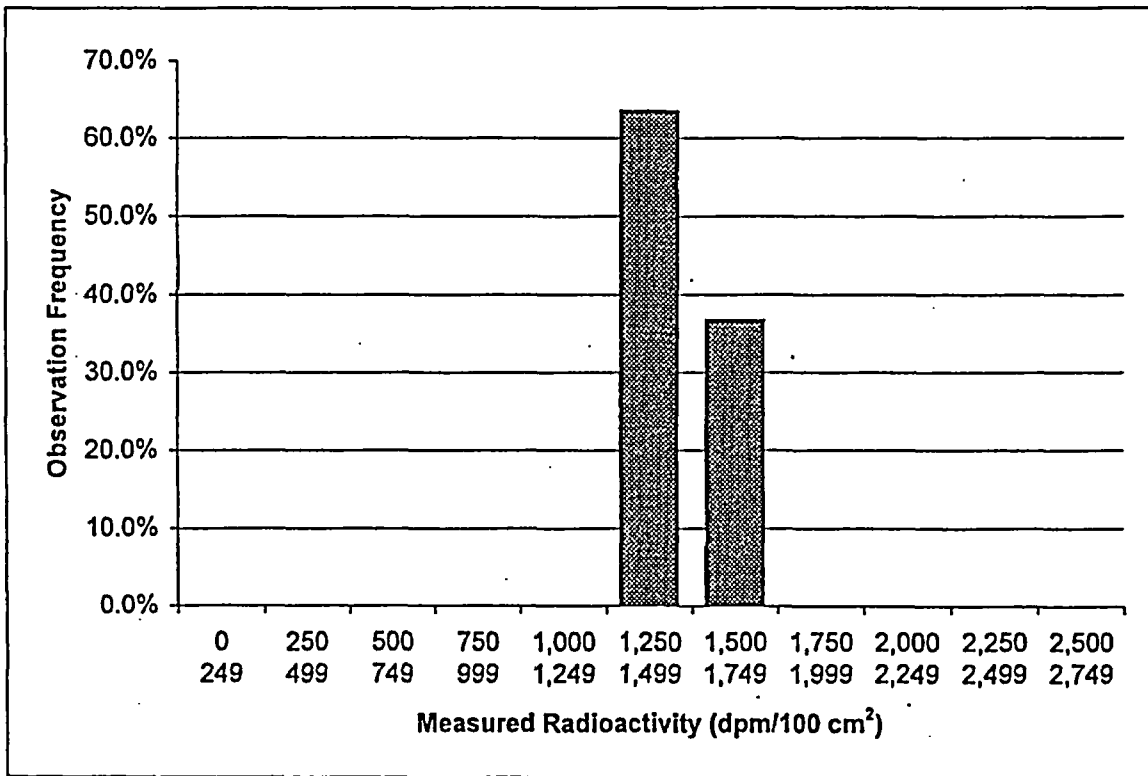
Classification: Class 3

Survey Unit Name: Turbine Building Upper East Exterior Wall

Size (m²): 1,284

Measurement Data Statistical Evaluation

Statistical Quantities Tests				Statistical Quantities	
Test	Calculated Value	Acceptance Criteria	Acceptable?	Range:	365
Range	365	464	Pass	Median:	1,481
Median	0.160	0.500	Pass	Mean:	1,495
Mean	1,495	10,500	Pass	Std Dev:	93
Std Dev	93	4,200	Pass	Minimum:	1,376
				Maximum:	1,741
				DCGL:	21,000



Plot Parameters		Interval	High	Low	Number	Frequency
# of measurements:	30	1	249	0	0	0.0%
# of intervals:	11	2	499	250	0	0.0%
Interval increment:	250	3	749	500	0	0.0%
Minimum:	0	4	999	750	0	0.0%
Maximum:	2,749	5	1,249	1,000	0	0.0%
		6	1,499	1,250	19	63.3%
		7	1,749	1,500	11	36.7%
		8	1,999	1,750	0	0.0%
		9	2,249	2,000	0	0.0%
		10	2,499	2,250	0	0.0%
		11	2,749	2,500	0	0.0%
Total:					30	100%

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12116A

Classification: Class 3

Survey Unit Name: Turbine Building Upper East Exterior Wall

Size (m²): 1,284

Judgmental and Miscellaneous Measurement Data

No judgmental or miscellaneous data collected.

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

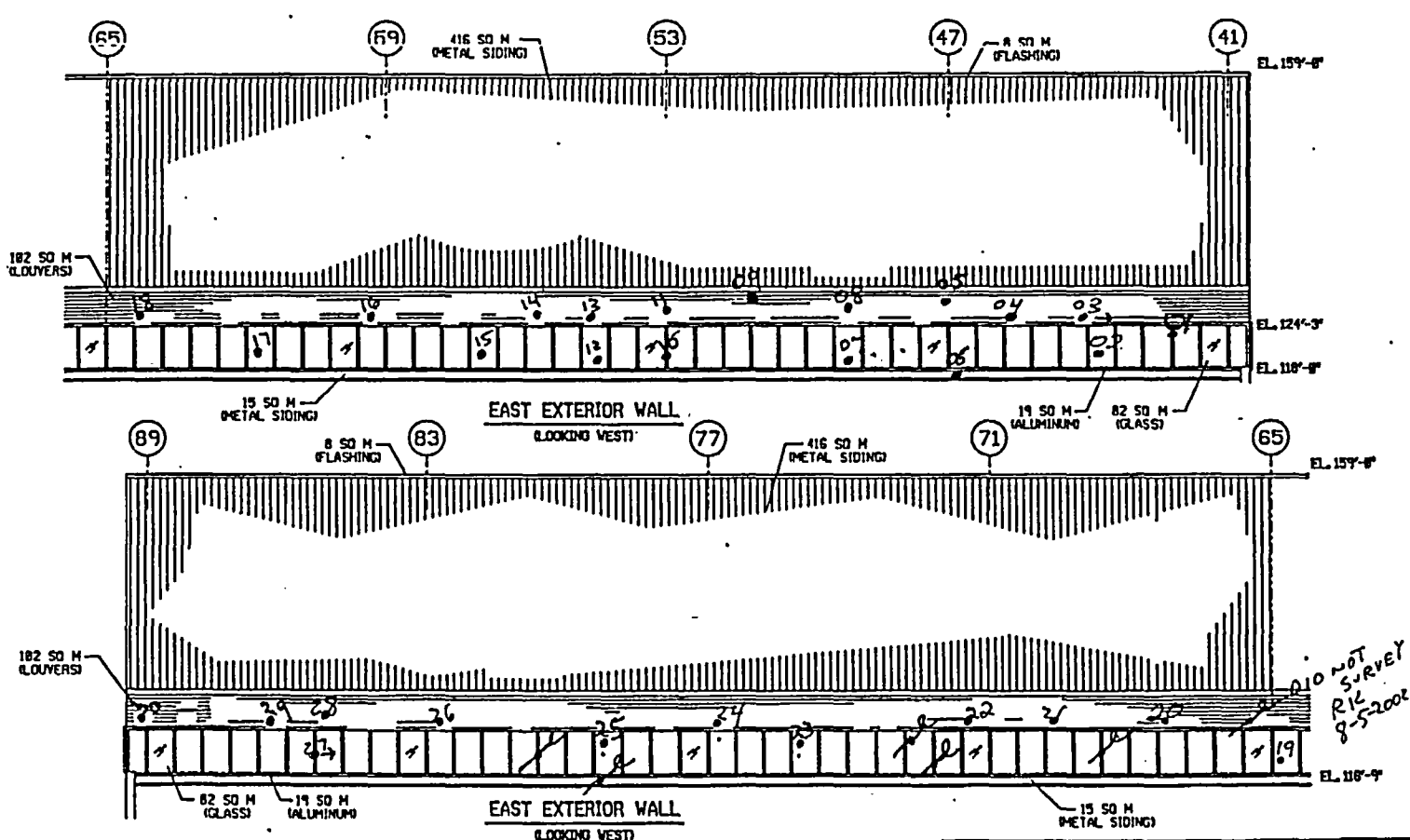
Survey Unit ID Code: S12116A

Survey Unit Name: Turbine Building Upper East Exterior Wall

Classification: Class 3

Size (m²): 1,284

Static Measurement Locations Map



SIGNATURES
 TECHNICIAN 1 *Steve Haglin* PRINT SIGN DATE 8/5/2002
 TECHNICIAN 2 *Ren Lester* PRINT SIGN DATE 8-5-2002

TROJAN FINAL SURVEY			
MAP NO.	S12116A	REVISION NO.	00
PREPARED BY	R C RAYMOND	REVISION DATE	07-24-02
CHECKED BY		DWG REFERENCE	A-3
AREA/COMPONENT DESCRIPTION	TURBINE BUILDING UPPER EAST EXTERIOR WALL		

FILE NAME: LOCATION SHEETS/COMPONENT SURVEY/FORM/STANDARD

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12116B

Classification: Class 3

Survey Unit Name: Turbine Building Lower (Turbine Bay) Roof

Size (m²): 828

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 1.018e+003
 Maximum Value : 2.322e+003
 Range : 1.304e+003
 Median : 1.613e+003
 Std. Deviation : 3.330e+002
 Mean : 1.622e+003
 95% UCL : 1.725e+003

Measurement Values

Location	Value	Location	Value
000001	1.304e+003	000018	1.678e+003
000002	1.188e+003	000019	1.716e+003
000003	1.498e+003	000020	2.288e+003
000004	1.532e+003	000021	1.998e+003
000005	1.503e+003	000022	2.095e+003
000006	1.581e+003	000023	1.503e+003
000007	1.018e+003	000024	1.493e+003
000008	1.610e+003	000025	2.099e+003
000009	1.673e+003	000026	1.716e+003
000010	1.047e+003	000027	1.697e+003
000011	1.314e+003	000028	1.503e+003
000012	1.644e+003	000029	1.833e+003
000013	1.406e+003	000030	1.707e+003
000014	1.615e+003		
000015	2.322e+003		
000016	1.983e+003		
000017	1.105e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12116B

Classification: Class 3

Survey Unit Name: Turbine Building Lower (Turbine Bay) Roof

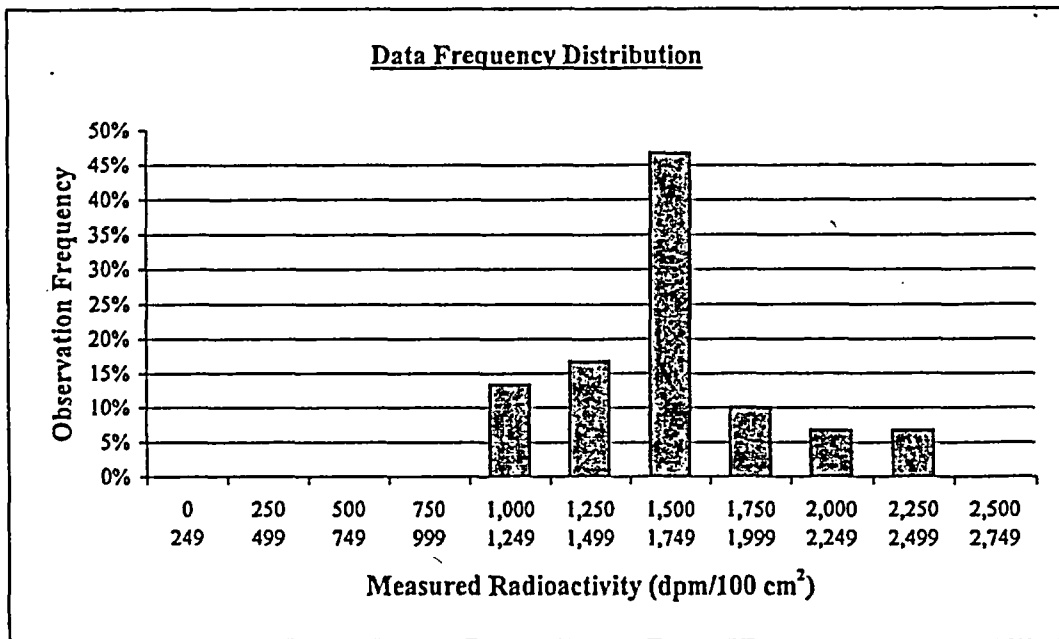
Size (m²): 828

Measurement Data Statistical Evaluation

Statistical Comparisons			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	1,304	1,665	Pass
Median	0.029	0.500	Pass
Mean	1,622	10,500	Pass
Std Dev	333	4,200	Pass

Statistical Quantities	
Range:	1,304
Median:	1,613
Mean:	1,622
Std Dev:	333
Minimum:	1,018
Maximum:	2,322
DCGL:	21,000

All data less than DCGL; Sign statistical test not required.



Plot Parameters	
# of measurements:	30
# of intervals:	11
Interval increment:	250
Minimum:	0
Maximum:	2,749

Comment:
NONE.

Interval	High End	Low End	Number of Observations	Observation Frequency
1	249	0	0	0%
2	499	250	0	0%
3	749	500	0	0%
4	999	750	0	0%
5	1,249	1,000	4	13%
6	1,499	1,250	5	17%
7	1,749	1,500	14	47%
8	1,999	1,750	3	10%
9	2,249	2,000	2	7%
10	2,499	2,250	2	7%
11	2,749	2,500	0	0%
Total:			30	100%

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12116B

Classification: Class 3

Survey Unit Name: Turbine Building Lower (Turbine Bay) Roof

Size (m²): 828

Judgmental and Miscellaneous Measurement Data

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 2,100

Minimum Value: 3

Maximum Value: 25

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

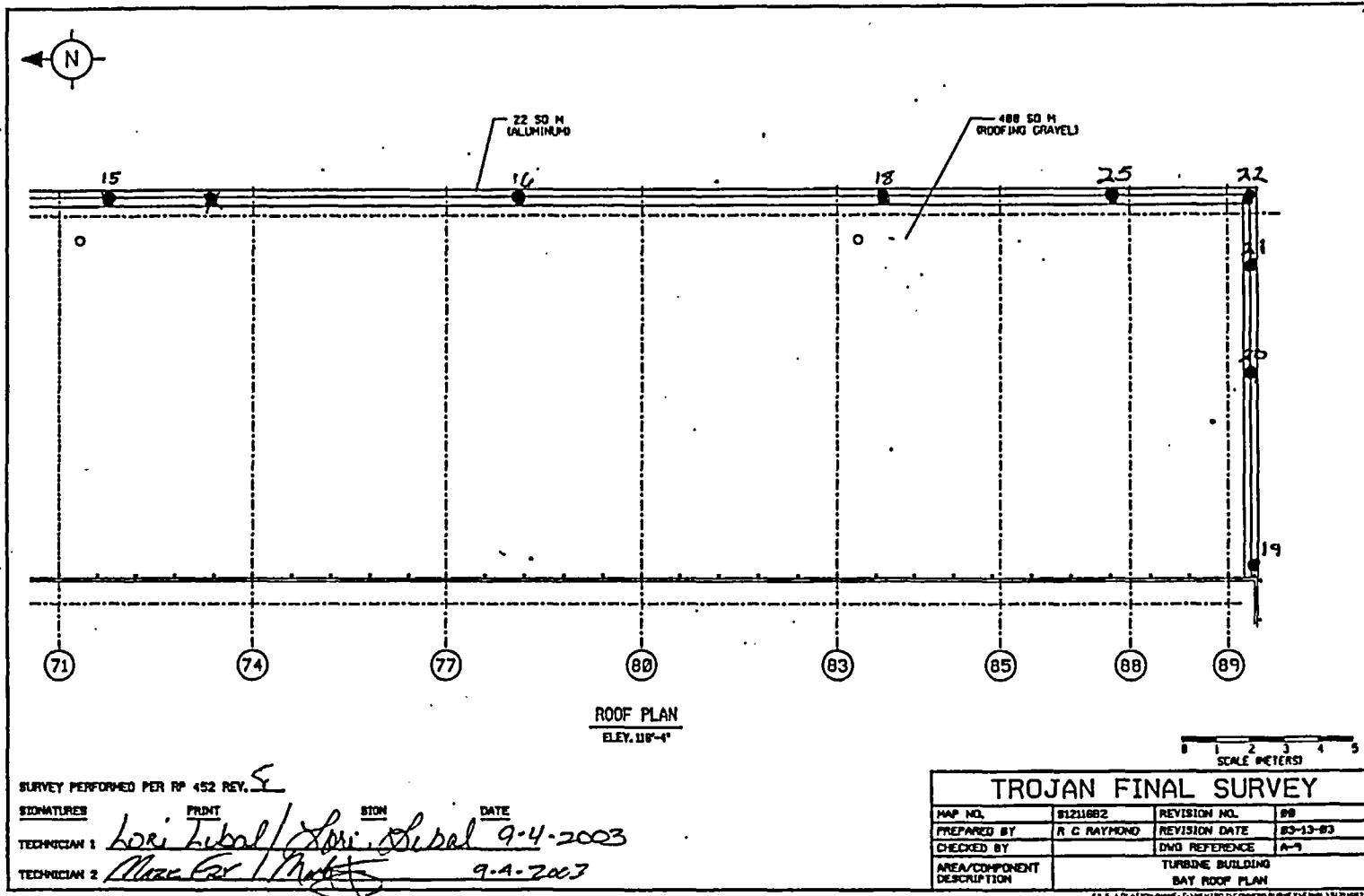
Survey Unit ID Code: S12116B

Survey Unit Name: Turbine Building Lower (Turbine Bay) Roof

Classification: Class 3

Size (m²): 828

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

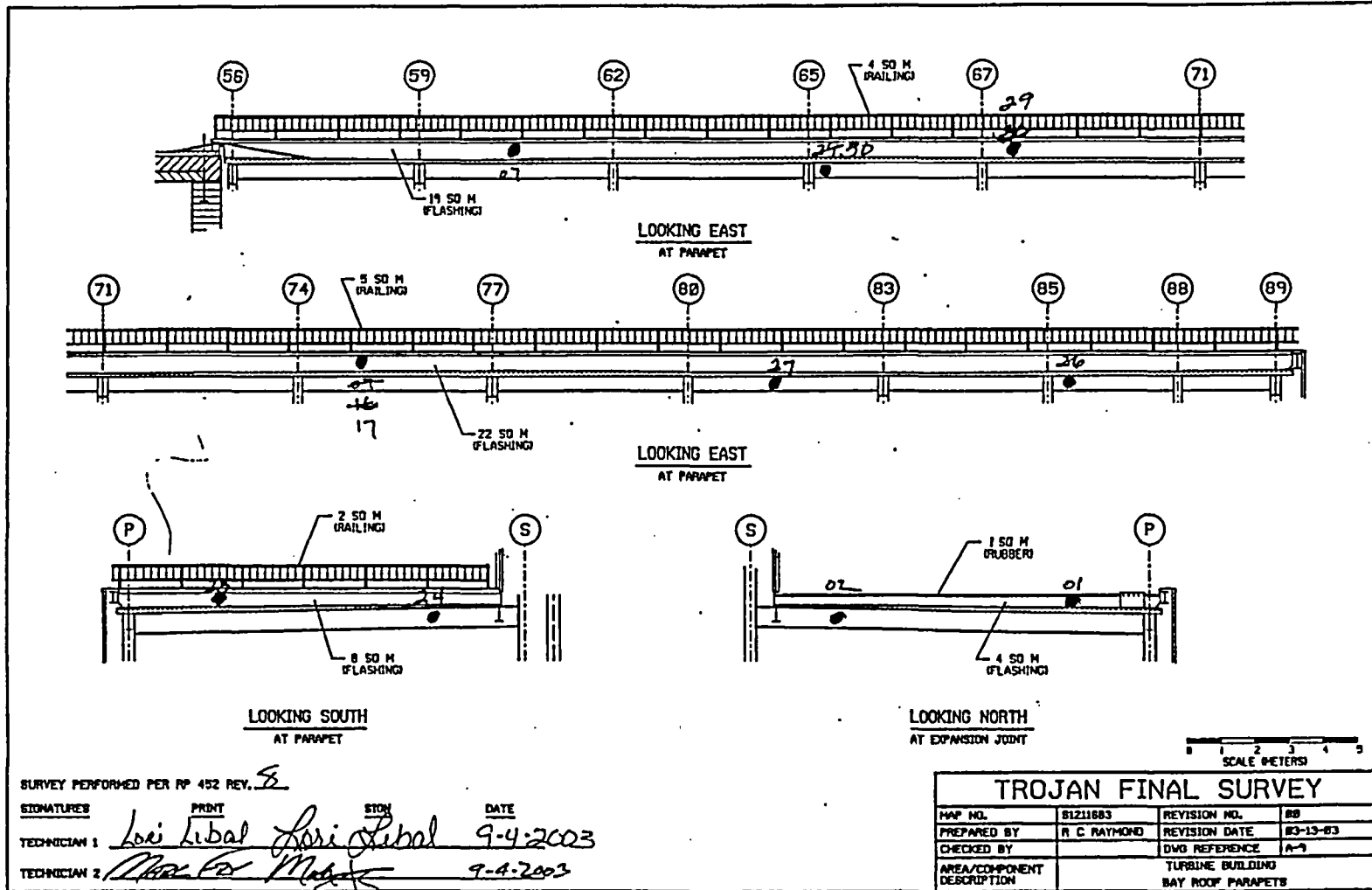
Survey Unit ID Code: S12116B

Survey Unit Name: Turbine Building Lower (Turbine Bay) Roof

Classification: Class 3

Size (m²): 828

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 5

SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	Loi Libal	<i>Loi Libal</i>	9-4-2003
TECHNICIAN 2	<i>[Signature]</i>	<i>[Signature]</i>	9-4-2003

TROJAN FINAL SURVEY			
MAP NO.	S12116B3	REVISION NO.	00
PREPARED BY	R C RAYMOND	REVISION DATE	03-13-03
CHECKED BY		DWG REFERENCE	A-9
AREA/COMPONENT DESCRIPTION	TURBINE BUILDING BAY ROOF PARAPETS		

FILE LOCATION: \\P:\G:\METRO\CD\04\04\SURVEY\DWG\S12116B3.DWG

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12157A
 Survey Unit Name: Turbine Building Upper Roof

Classification: Class 3
 Size (m²): 5,426

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 1.355e+003
 Maximum Value : 3.295e+003
 Range : 1.940e+003
 Median : 1.973e+003
 Std. Deviation : 5.252e+002
 Mean : 2.038e+003
 95% UCL : 2.201e+003

Measurement Values

Location	Value	Location	Value
000001	1.795e+003	000018	3.295e+003
000002	1.423e+003	000019	2.332e+003
000003	1.423e+003	000020	3.073e+003
000004	1.450e+003	000021	2.014e+003
000005	1.464e+003	000022	2.577e+003
000006	1.514e+003	000023	1.936e+003
000007	1.355e+003	000024	2.364e+003
000008	1.959e+003	000025	2.041e+003
000009	1.664e+003	000026	2.605e+003
000010	1.777e+003	000027	1.995e+003
000011	1.659e+003	000028	2.023e+003
000012	1.664e+003	000029	3.000e+003
000013	1.955e+003	000030	2.950e+003
000014	1.864e+003		
000015	1.995e+003		
000016	1.995e+003		
000017	1.986e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12157A
 Survey Unit Name: Turbine Building Upper Roof

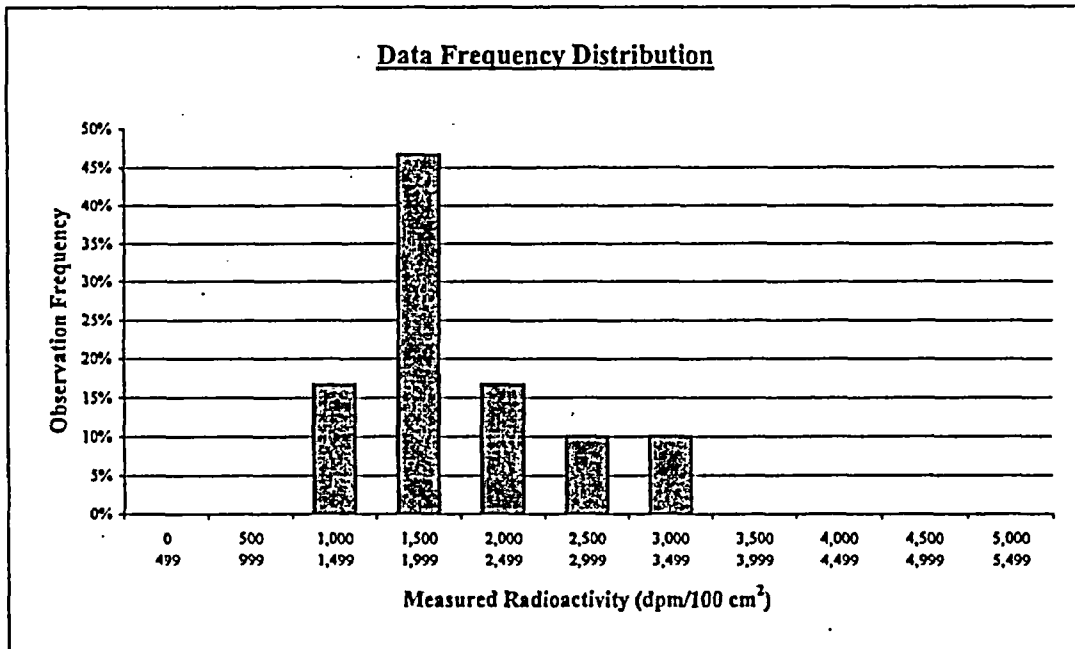
Classification: Class 3
 Size (m²): 5,426

Measurement Data Statistical Evaluation

Statistical Comparisons			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	1,940	2,626	Pass
Median	0.125	0.500	Pass
Mean	2,038	10,500	Pass
Std Dev	525	4,200	Pass

Statistical Quantities	
Range:	1,940
Median:	1,973
Mean:	2,038
Std Dev:	525
Minimum:	1,355
Maximum:	3,295
DCGL:	21,000

All data less than DCGL; Sign statistical test not required.



Plot Parameters	
# of measurements:	30
# of intervals:	11
Interval increment:	500
Minimum:	0
Maximum:	5,499

Comment:
 NONE.

Interval	High End	Low End	Number of Observations	Observation Frequency
1	499	0	0	0%
2	999	500	0	0%
3	1,499	1,000	5	17%
4	1,999	1,500	14	47%
5	2,499	2,000	5	17%
6	2,999	2,500	3	10%
7	3,499	3,000	3	10%
8	3,999	3,500	0	0%
9	4,499	4,000	0	0%
10	4,999	4,500	0	0%
11	5,499	5,000	0	0%
Total:			30	100%

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12157A

Classification: Class 3

Survey Unit Name: Turbine Building Upper Roof

Size (m²): 5,426

Judgmental and Miscellaneous Measurement Data

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 2,100

Minimum Value: 46

Maximum Value: 86

Discussion of Anomalous Measurement Data

Investigation Summary

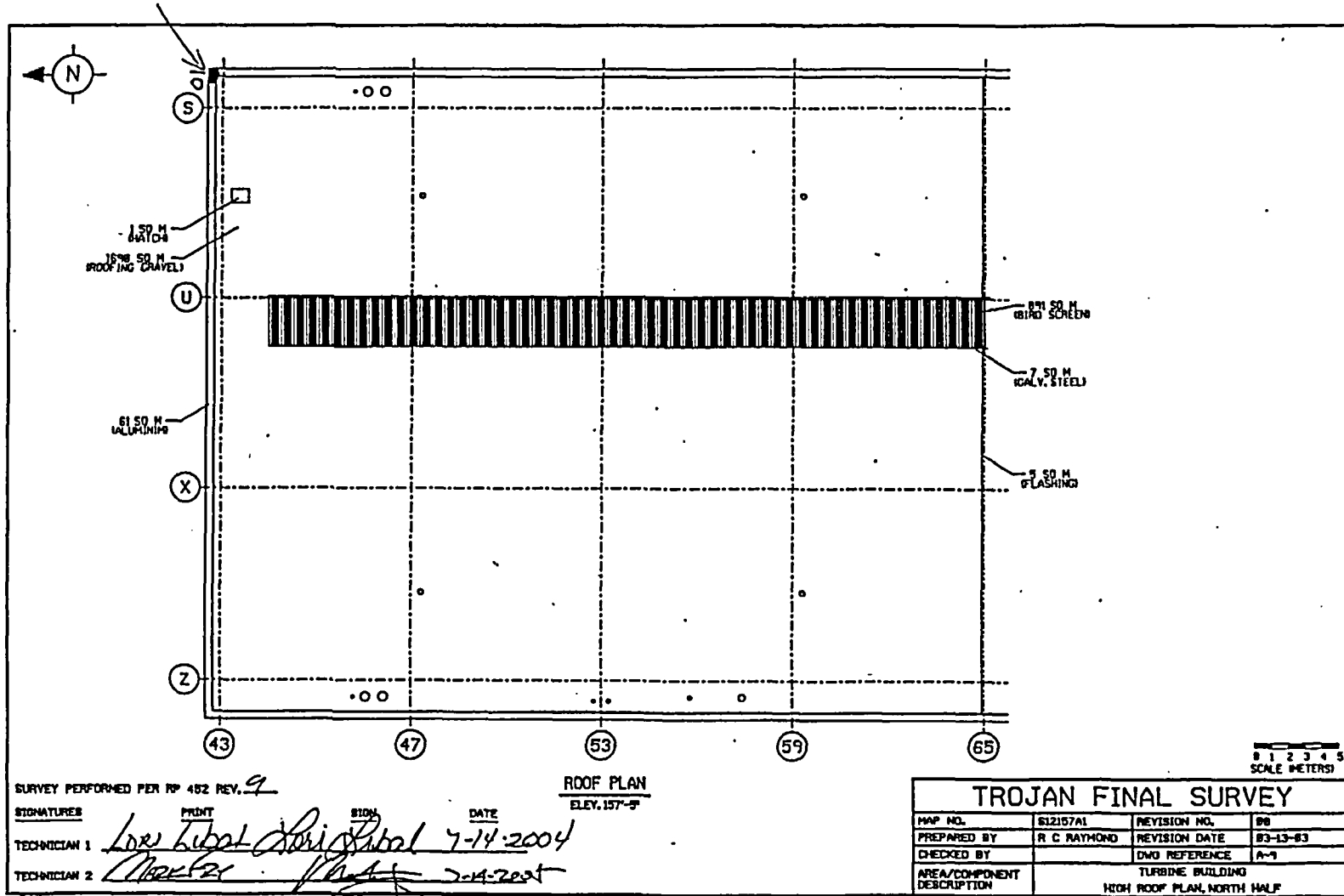
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12157A
 Survey Unit Name: Turbine Building Upper Roof

Classification: Class 3
 Size (m²): 5,426

Static Measurement Locations Map

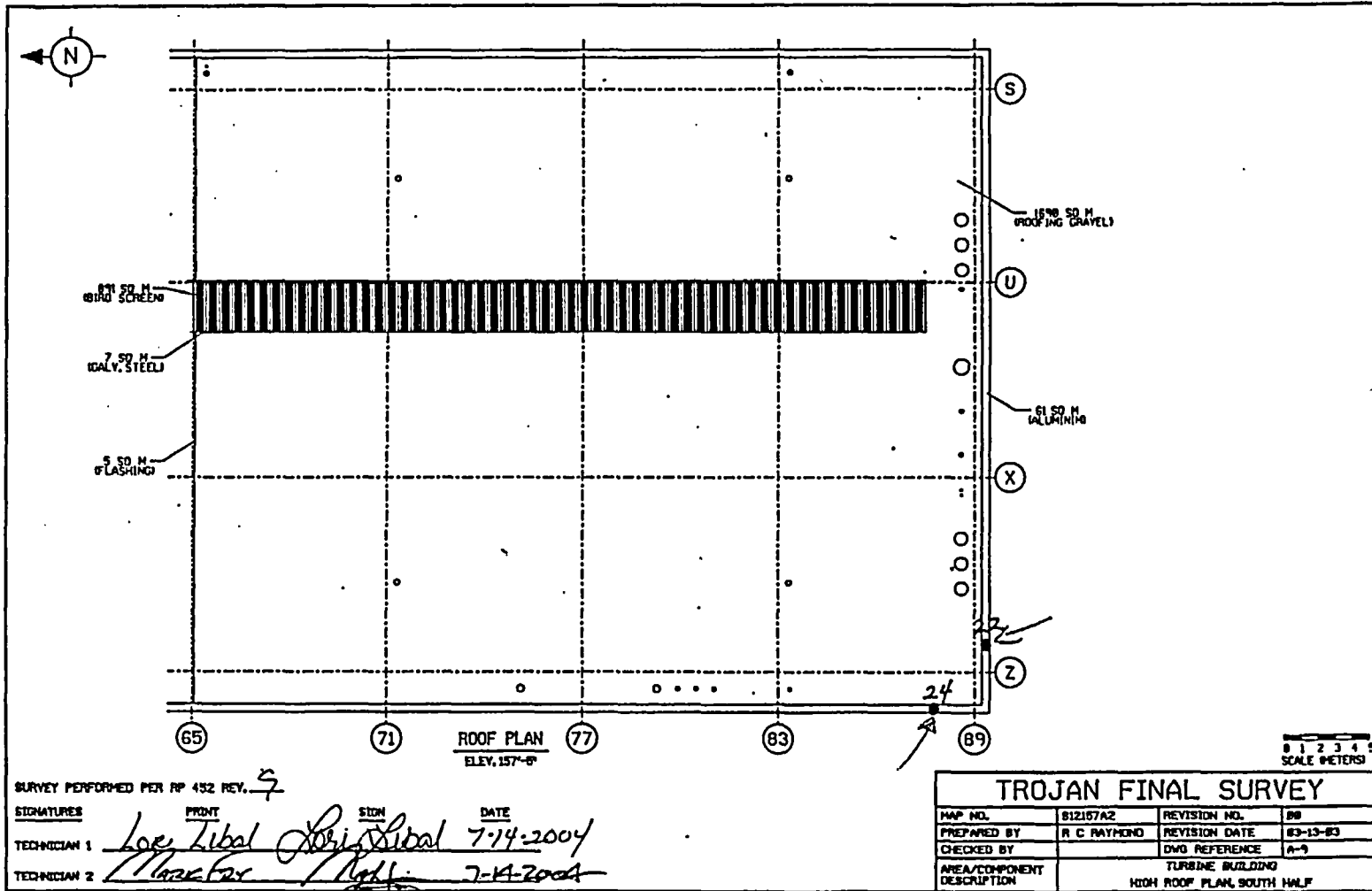


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12157A
 Survey Unit Name: Turbine Building Upper Roof

Classification: Class 3
 Size (m²): 5,426

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

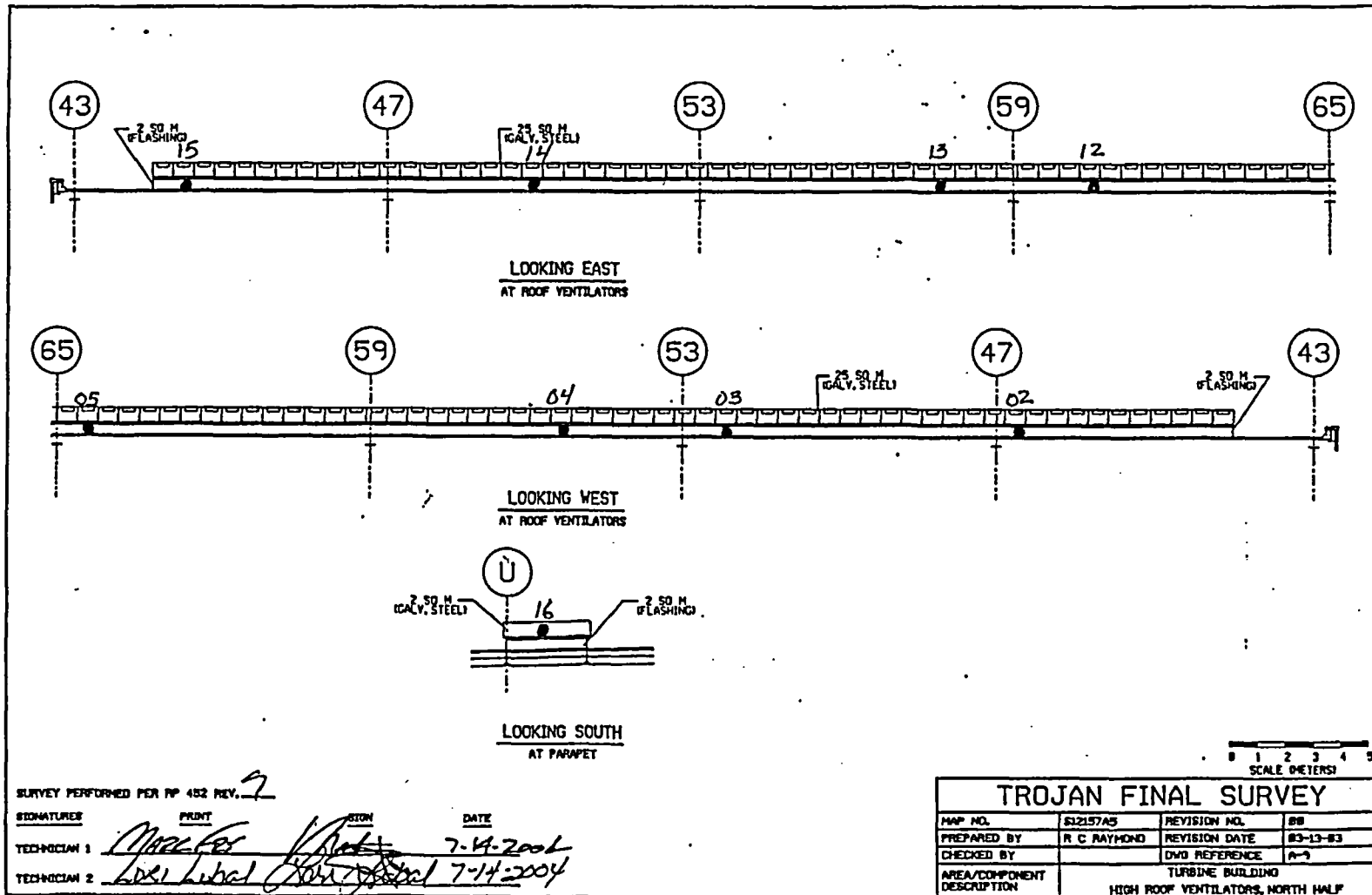
Survey Unit ID Code: S12157A

Survey Unit Name: Turbine Building Upper Roof

Classification: Class 3

Size (m²): 5,426

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 7

SIGNATURES	PRINT	POSITION	DATE
<i>[Signature]</i>	Michael	Surveyor	7-14-2004
<i>[Signature]</i>	David	Surveyor	7-14-2004

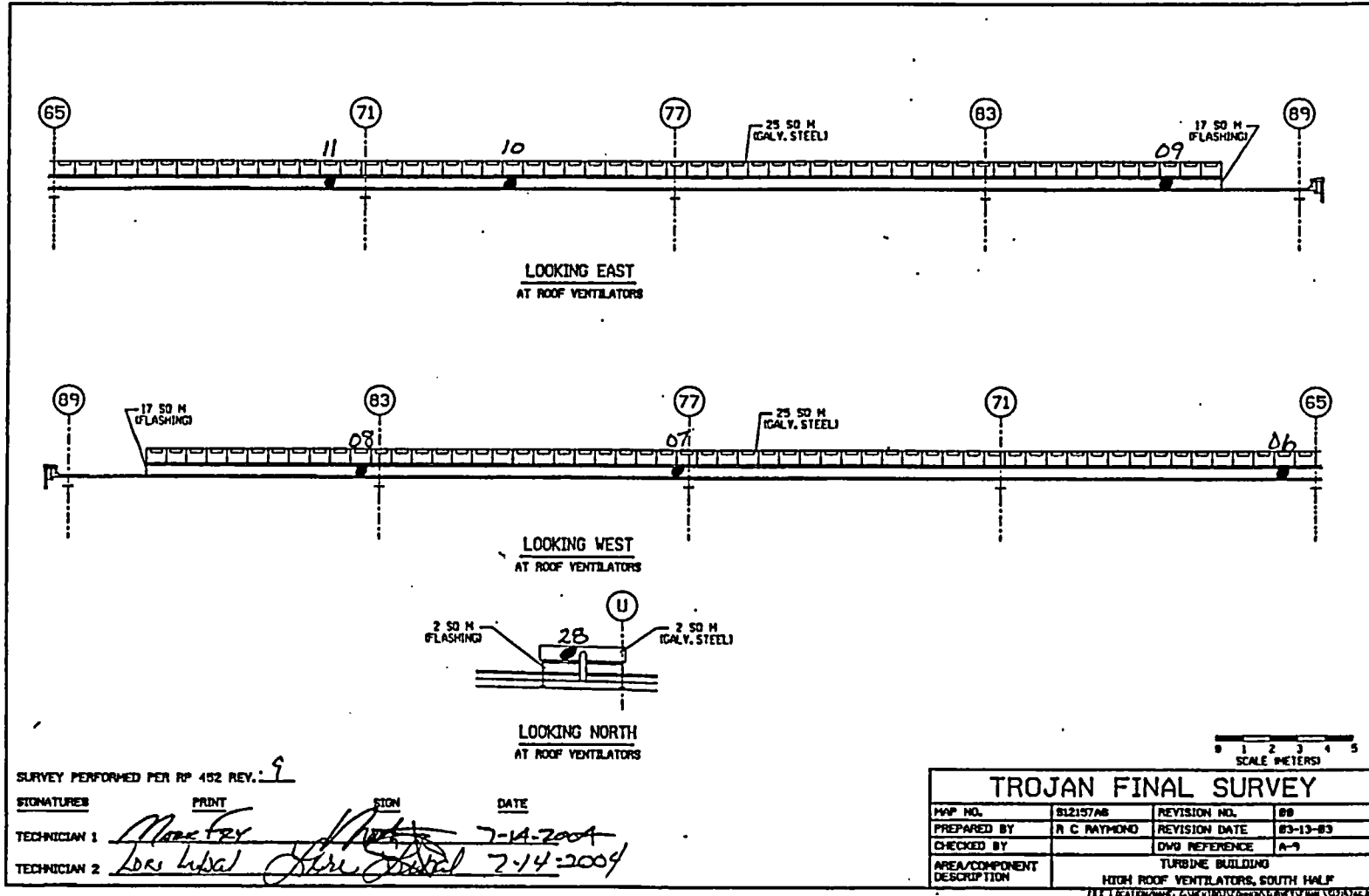
TROJAN FINAL SURVEY			
MAP NO.	S12157A5	REVISION NO.	00
PREPARED BY	R C RAYMOND	REVISION DATE	03-13-03
CHECKED BY		DWG REFERENCE	A-3
AREA/COMPONENT DESCRIPTION	TURBINE BUILDING HIGH ROOF VENTILATORS, NORTH HALF		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12157A
 Survey Unit Name: Turbine Building Upper Roof

Classification: Class 3
 Size (m²): 5,426

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S13045A Classification: Class 3
 Survey Unit Name: Maintenance Building Exterior Walls and Patio Size (m²): 1,386

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 6.501e+002
 Maximum Value : 1.539e+003
 Range : 8.889e+002
 Median : 1.177e+003
 Std. Deviation : 2.066e+002
 Mean : 1.129e+003
 95% UCL : 1.193e+003

Measurement Values

Location	Value	Location	Value
000001	6.501e+002	000018	8.216e+002
000002	9.013e+002	000019	1.177e+003
000003	6.820e+002	000020	1.149e+003
000004	1.539e+003	000021	1.177e+003
000005	9.173e+002	000022	1.169e+003
000006	1.268e+003	000023	1.204e+003
000007	1.320e+003	000024	1.069e+003
000008	1.169e+003	000025	1.224e+003
000009	1.240e+003	000026	8.176e+002
000010	1.324e+003	000027	1.157e+003
000011	1.184e+003	000028	9.851e+002
000012	1.200e+003	000029	1.033e+003
000013	1.320e+003	000030	1.420e+003
000014	1.212e+003		
000015	1.017e+003		
000016	1.204e+003		
000017	1.316e+003		

FINAL SURVEY RESULTS SUMMARY

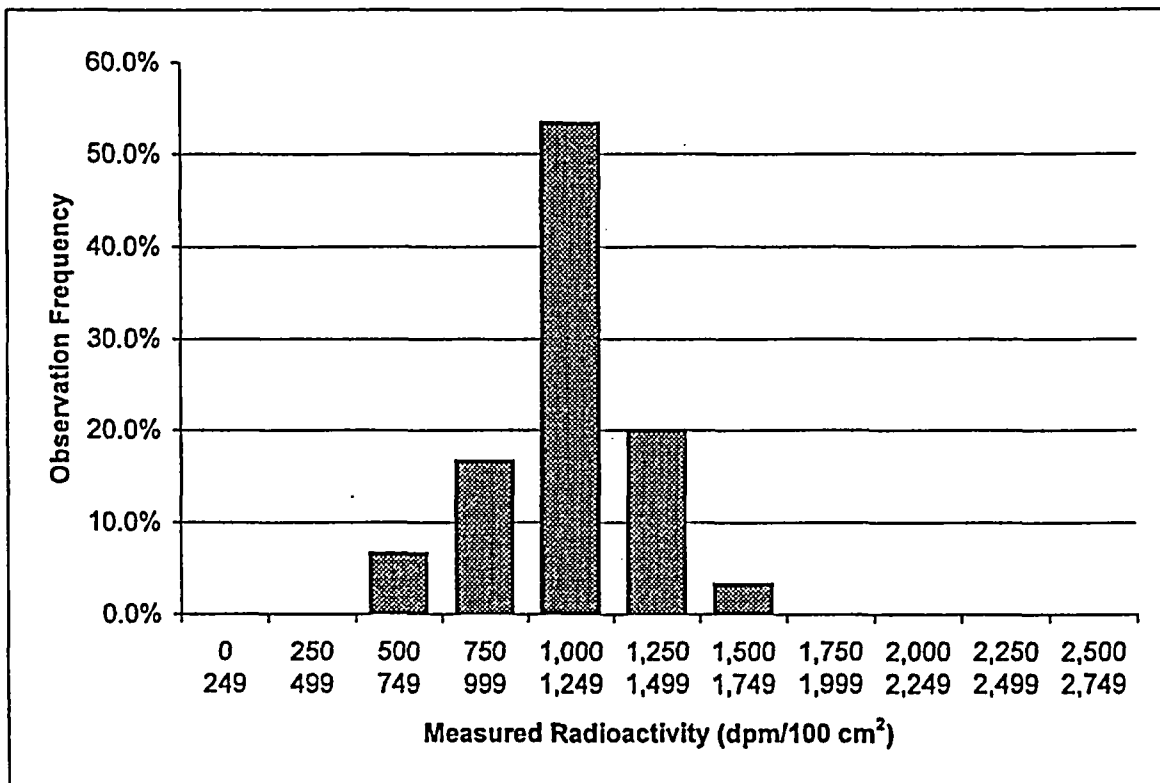
Survey Unit ID Code: S13045A

Classification: Class 3

Survey Unit Name: Maintenance Building Exterior Walls and Patio Size (m²): 1,386

Measurement Data Statistical Evaluation

Statistical Quantities Tests				Statistical Quantities	
Test	Calculated Value	Acceptance Criteria	Acceptable?	Range:	889
Range	889	1,033	Pass	Median:	1,177
Median	0.233	0.500	Pass	Mean:	1,129
Mean	1,129	10,500	Pass	Std Dev:	207
Std Dev	207	4,200	Pass	Minimum:	650
				Maximum:	1,539
				DCGL:	21,000



Plot Parameters		Interval	High	Low	Number	Frequency
# of measurements:	30	1	249	0	0	0.0%
# of intervals:	11	2	499	250	0	0.0%
Interval increment:	250	3	749	500	2	6.7%
Minimum:	0	4	999	750	5	16.7%
Maximum:	2,749	5	1,249	1,000	16	53.3%
		6	1,499	1,250	6	20.0%
		7	1,749	1,500	1	3.3%
		8	1,999	1,750	0	0.0%
		9	2,249	2,000	0	0.0%
		10	2,499	2,250	0	0.0%
		11	2,749	2,500	0	0.0%
Total:					30	100%

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S13045A **Classification:** Class 3
Survey Unit Name: Maintenance Building Exterior Walls and Patio **Size (m²):** 1,386

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta	Scan Coverage (%): 2
Measurement Units: dpm/100cm ²	Investigation Level: 21,000
Minimum Value: 875	Maximum Value: 2,157

Discussion of Anomalous Measurement Data

Investigation Summary

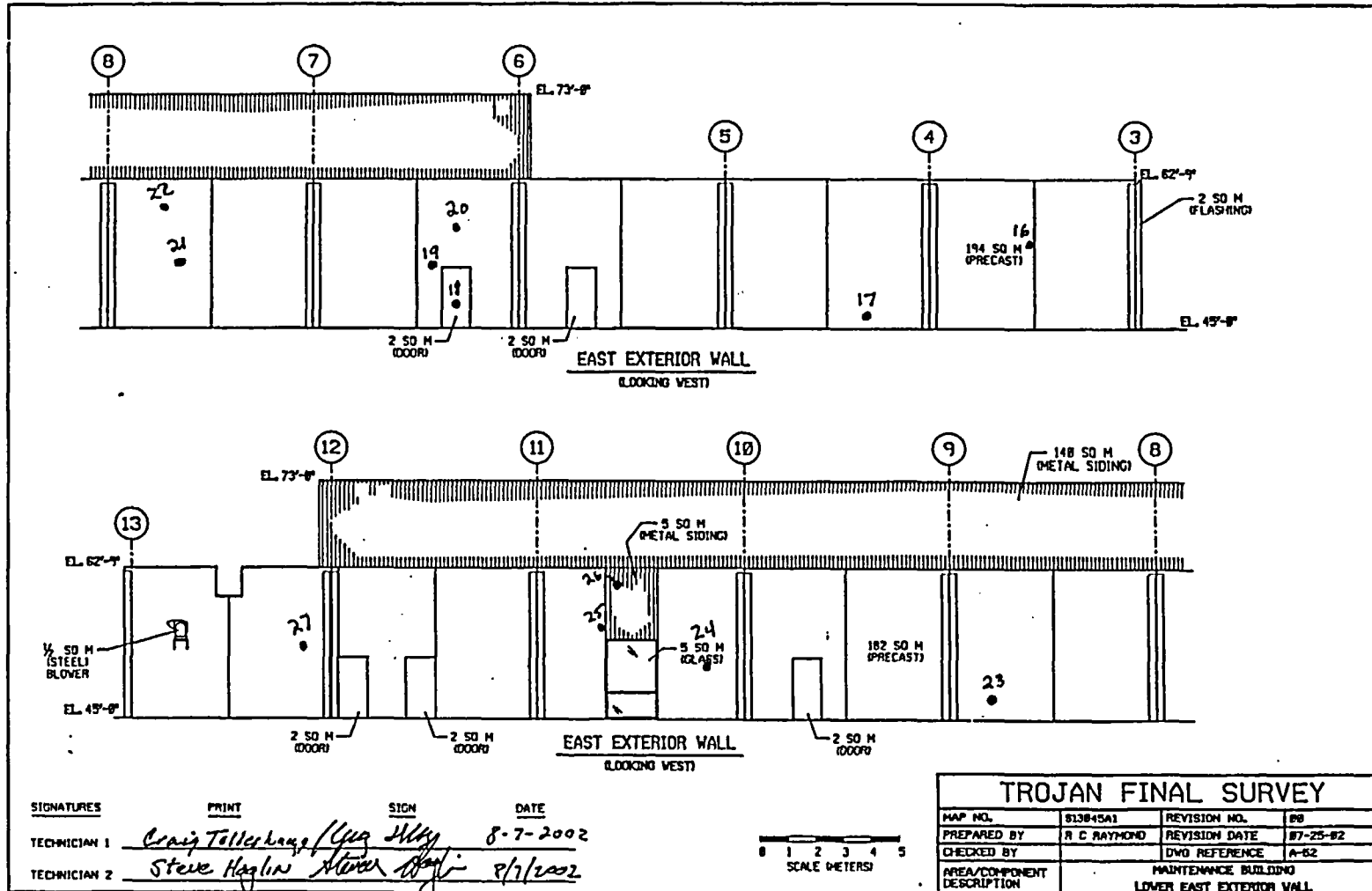
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

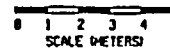
Survey Unit ID Code: S13045A
 Survey Unit Name: Maintenance Building Exterior Walls and Patio

Classification: Class 3
 Size (m²): 1,386

Static Measurement Locations Map



SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	Craig Toller/Kyle	[Signature]	8-7-2002
TECHNICIAN 2	Steve Haglin	[Signature]	8/7/2002



TROJAN FINAL SURVEY			
MAP NO.	S13045A1	REVISION NO.	08
PREPARED BY	R C RAYMOND	REVISION DATE	07-25-02
CHECKED BY		DWG REFERENCE	A-52
AREA/COMPONENT DESCRIPTION	MAINTENANCE BUILDING LOWER EAST EXTERIOR WALL		

FILE NAME/LOCATION: G:\MEV\TROJ\FINAL SURVEY\DWG\S13045A1.dwg

FINAL SURVEY RESULTS SUMMARY

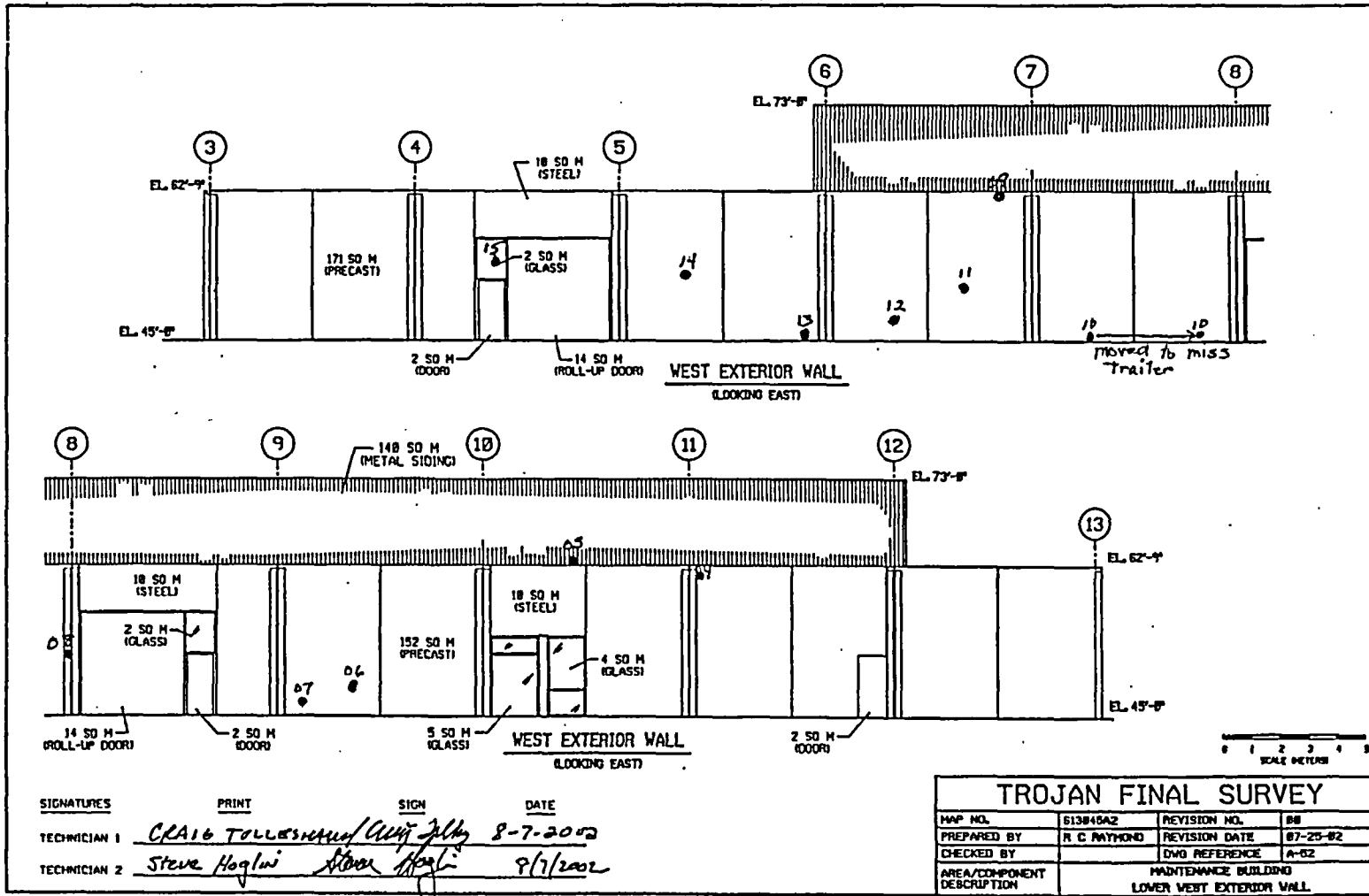
Survey Unit ID Code: S13045A

Survey Unit Name: Maintenance Building Exterior Walls and Patio

Classification: Class 3

Size (m²): 1,386

Static Measurement Locations Map



SIGNATURES	PRINT	SIGN	DATE
	CRAIG TOLLESMA	<i>[Signature]</i>	8-7-2002
	Steve Haglin	<i>[Signature]</i>	8/7/2002

TROJAN FINAL SURVEY			
MAP NO.	S13045A2	REVISION NO.	00
PREPARED BY	R C MAYMOND	REVISION DATE	07-25-02
CHECKED BY		DWG REFERENCE	A-02
AREA/COMPONENT DESCRIPTION	MAINTENANCE BUILDING LOWER WEST EXTERIOR WALL		

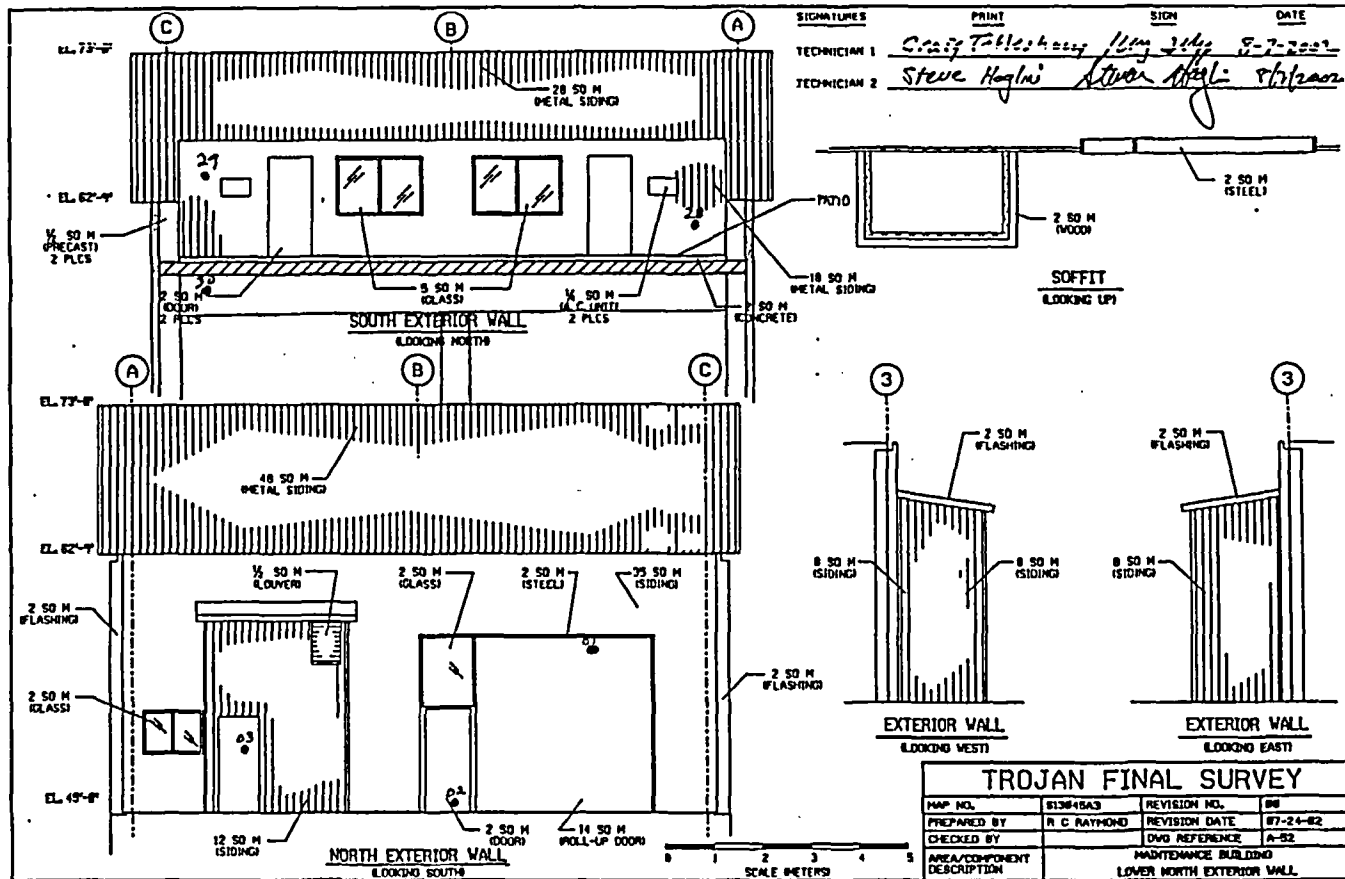
FILE NAME/LOCATION: G:\VE\16\COMPS\SURVEY\DWG\S13045A2.DWG

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S13045A
 Survey Unit Name: Maintenance Building Exterior Walls and Patio

Classification: Class 3
 Size (m²): 1,386

Static Measurement Locations Map



Steve Hoglin Steve Hoglin 8/1/2002

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S13059A

Classification: Class 3

Survey Unit Name: Maintenance Building Roof (Excluding Patio)

Size (m²): 913

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 1.390e+003
 Maximum Value : 3.566e+003
 Range : 2.176e+003
 Median : 2.154e+003
 Std. Deviation : 5.696e+002
 Mean : 2.231e+003
 95% UCL : 2.407e+003

Measurement Values

Location	Value	Location	Value
000001	1.702e+003	000018	2.156e+003
000002	1.727e+003	000019	2.200e+003
000003	1.649e+003	000020	2.195e+003
000004	1.927e+003	000021	2.346e+003
000005	1.390e+003	000022	1.976e+003
000006	1.746e+003	000023	2.634e+003
000007	1.844e+003	000024	3.093e+003
000008	1.932e+003	000025	2.780e+003
000009	1.473e+003	000026	3.566e+003
000010	1.883e+003	000027	3.532e+003
000011	2.263e+003	000028	3.395e+003
000012	2.307e+003	000029	2.512e+003
000013	2.151e+003	000030	2.424e+003
000014	2.083e+003		
000015	1.722e+003		
000016	2.273e+003		
000017	2.049e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S13059A

Classification: Class 3

Survey Unit Name: Maintenance Building Roof (Excluding Patio)

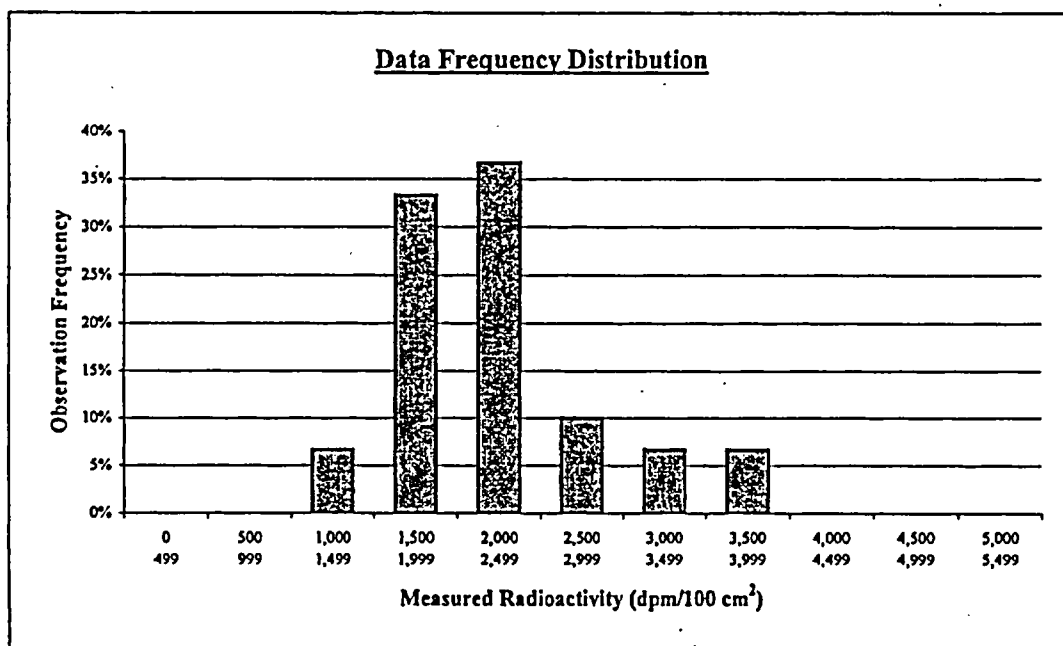
Size (m²): 913

Measurement Data Statistical Evaluation

Statistical Comparisons			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	2,176	2,848	Pass
Median	0.136	0.500	Pass
Mean	2,231	10,500	Pass
Std Dev	570	4,200	Pass

Statistical Quantities	
Range:	2,176
Median:	2,154
Mean:	2,231
Std Dev:	570
Minimum:	1,390
Maximum:	3,566
DCGL:	21,000

All data less than DCGL; Sign statistical test not required.



Plot Parameters	
# of measurements:	30
# of intervals:	11
Interval increment:	500
Minimum:	0
Maximum:	5,499

Interval	High End	Low End	Number of Observations	Observation Frequency
1	499	0	0	0%
2	999	500	0	0%
3	1,499	1,000	2	7%
4	1,999	1,500	10	33%
5	2,499	2,000	11	37%
6	2,999	2,500	3	10%
7	3,499	3,000	2	7%
8	3,999	3,500	2	7%
9	4,499	4,000	0	0%
10	4,999	4,500	0	0%
11	5,499	5,000	0	0%
Total:			30	100%

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S13059A **Classification:** Class 3
Survey Unit Name: Maintenance Building Roof (Excluding Patio) **Size (m²):** 913

Judgmental and Miscellaneous Measurement Data

Measurement Type: Removable Beta **Number of Measurements:** 30
Measurement Units: dpm/100cm² **Investigation Level:** 2,100
Minimum Value: 49 **Maximum Value:** 92

Discussion of Anomalous Measurement Data

Investigation Summary

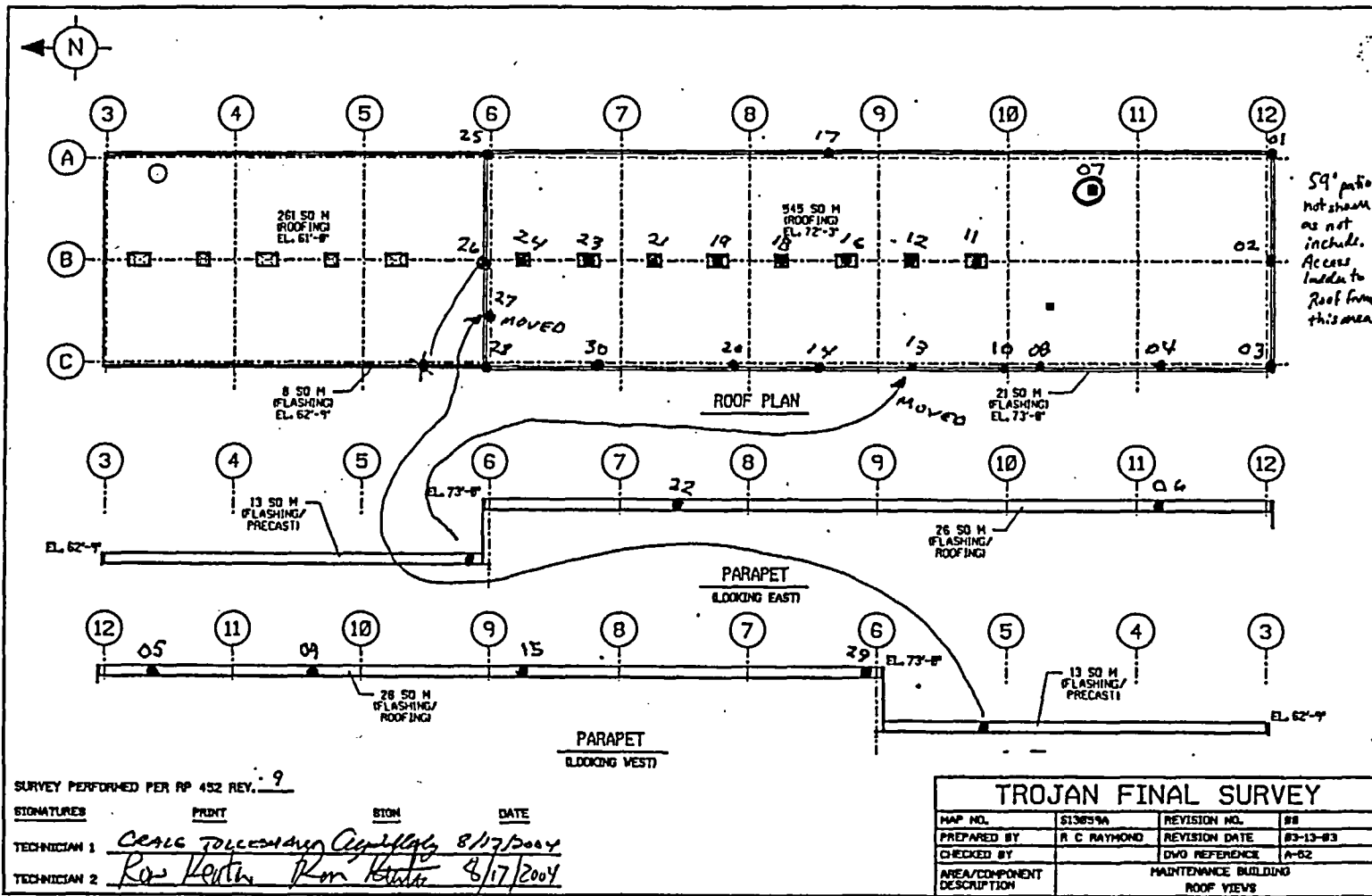
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S13059A
 Survey Unit Name: Maintenance Building Roof (Excluding Patio)

Classification: Class 3
 Size (m²): 913

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 9

SIGNATURES	PRINT	STATION	DATE
<i>Craig Tollesman</i>	Craig Tollesman		8/17/2004
<i>Ron Keith</i>	Ron Keith		8/17/2004

TROJAN FINAL SURVEY			
MAP NO.	S13059A	REVISION NO.	08
PREPARED BY	R C RAYMOND	REVISION DATE	03-13-03
CHECKED BY		DWG REFERENCE	A-02
AREA/COMPONENT DESCRIPTION	MAINTENANCE BUILDING ROOF VIEWS		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14045A

Classification: Class 3

Survey Unit Name: Fuel Building Lower and Radioactive Waste
Annex North and West Exterior Walls

Size (m²): 173

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
Minimum Value : 9.930e+002
Maximum Value : 1.384e+003
Range : 3.910e+002
Median : 1.099e+003
Std. Deviation : 8.466e+001
Mean : 1.116e+003
95% UCL : 1.142e+003

Measurement Values

Location	Value	Location	Value
000001	1.071e+003	000018	1.020e+003
000002	1.067e+003	000019	1.099e+003
000003	1.122e+003	000020	1.138e+003
000004	1.009e+003	000021	1.075e+003
000005	1.235e+003	000022	1.134e+003
000006	1.063e+003	000023	1.122e+003
000007	1.126e+003	000024	1.091e+003
000008	1.126e+003	000025	9.930e+002
000009	1.314e+003	000026	1.044e+003
000010	1.173e+003	000027	1.099e+003
000011	1.384e+003	000028	1.200e+003
000012	1.075e+003	000029	1.060e+003
000013	1.130e+003	000030	1.142e+003
000014	1.056e+003		
000015	1.036e+003		
000016	1.099e+003		
000017	1.181e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14045A

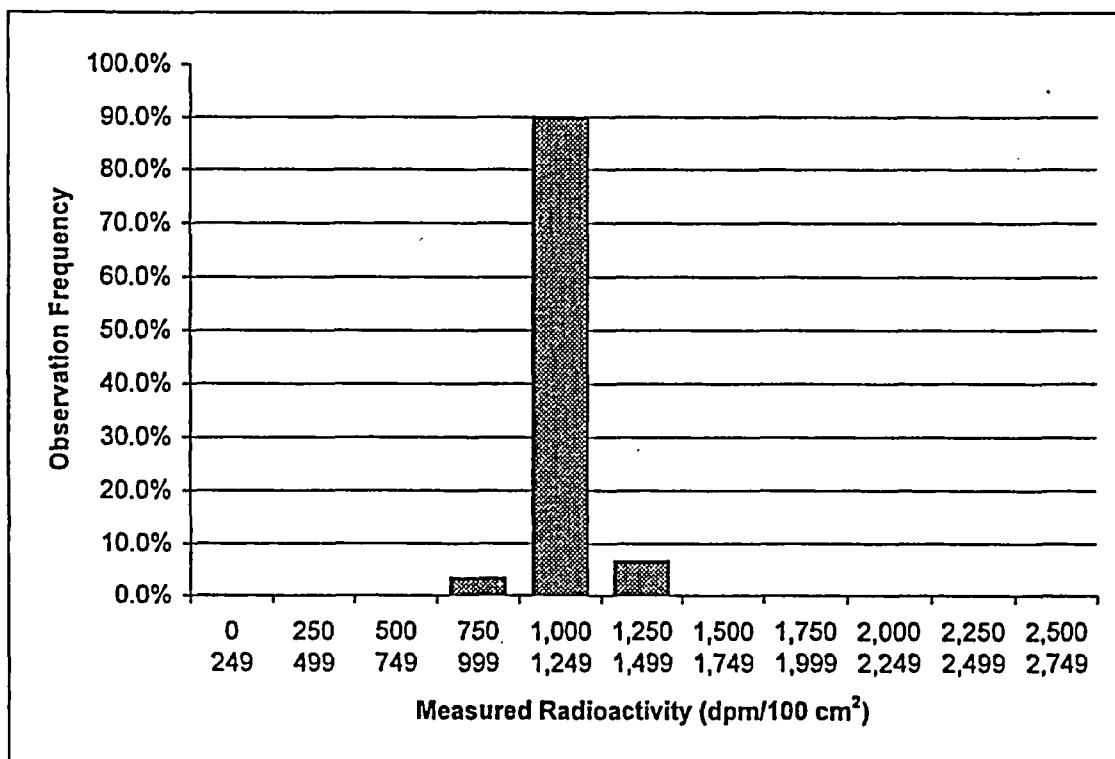
Classification: Class 3

Survey Unit Name: Fuel Building Lower and Radioactive Waste
Annex North and West Exterior Walls

Size (m²): 173

Measurement Data Statistical Evaluation

Statistical Quantities Tests				Statistical Quantities	
Test	Value	Criteria	Acceptable?	Range:	391
Range	391	423	Pass	Median:	1,099
Median	0.202	0.500	Pass	Mean:	1,116
Mean	1,116	10,500	Pass	Std Dev:	85
Std Dev	85	4,200	Pass	Minimum:	993
				Maximum:	1,384
				DCGL:	21,000



Plot Parameters		Interval	High	Low	Number	Frequency
# of measurements:	30	1	249	0	0	0.0%
# of intervals:	11	2	499	250	0	0.0%
Interval increment:	250	3	749	500	0	0.0%
Minimum:	0	4	999	750	1	3.3%
Maximum:	2,749	5	1,249	1,000	27	90.0%
		6	1,499	1,250	2	6.7%
		7	1,749	1,500	0	0.0%
		8	1,999	1,750	0	0.0%
		9	2,249	2,000	0	0.0%
		10	2,499	2,250	0	0.0%
		11	2,749	2,500	0	0.0%
		Total:			30	100%

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14045A **Classification:** Class 3
Survey Unit Name: Fuel Building Lower and Radioactive Waste **Size (m²):** 173
Annex North and West Exterior Walls

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta **Scan Coverage (%):** 5
Measurement Units: dpm/100cm² **Investigation Level:** 21,000
Minimum Value: 1,517 **Maximum Value:** 2,233

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

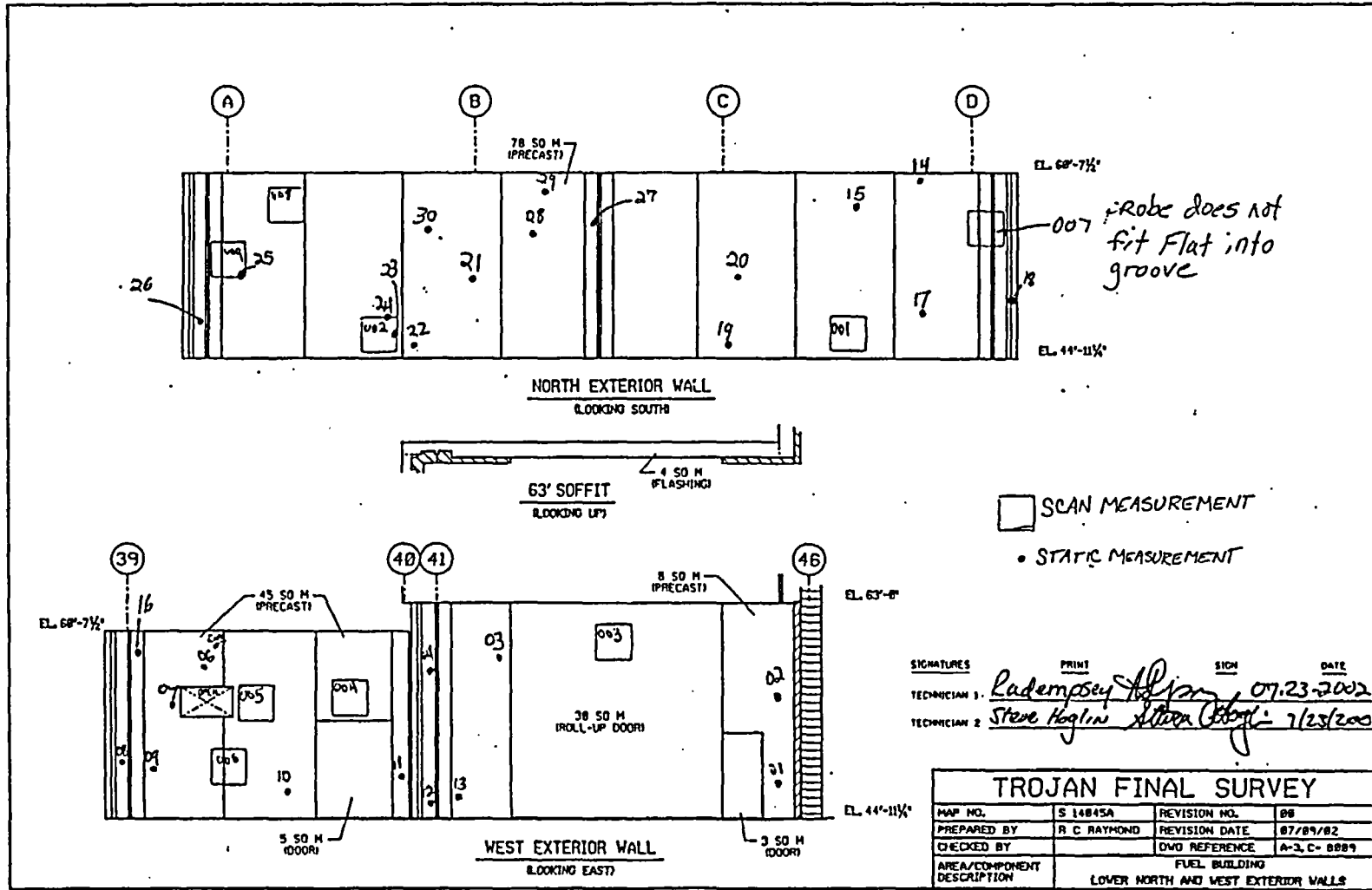
Survey Unit ID Code: S14045A

Classification: Class 3

Survey Unit Name: Fuel Building Lower and Radioactive Waste Annex North and West Exterior Walls

Size (m²): 173

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14045B

Classification: Class 3

Survey Unit Name: Fuel Building Lower and Radioactive Waste
Annex East Exterior Walls

Size (m²): 414

Data Quality Values

Type 1 Error : 5.000e-002 **Type 2 Error** : 5.000e-002
Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
Minimum Value : 4.926e+002
Maximum Value : 1.243e+003
Range : 7.504e+002
Median : 1.030e+003
Std. Deviation : 1.622e+002
Mean : 1.008e+003
95% UCL : 1.058e+003

Measurement Values

Location	Value	Location	Value
000001	1.075e+003	000018	1.153e+003
000002	4.926e+002	000019	6.373e+002
000003	1.122e+003	000020	9.696e+002
000004	9.930e+002	000021	1.103e+003
000005	8.093e+002	000022	1.142e+003
000006	1.157e+003	000023	1.114e+003
000007	1.013e+003	000024	1.032e+003
000008	9.930e+002	000025	6.998e+002
000009	9.618e+002	000026	9.970e+002
000010	9.070e+002	000027	1.079e+003
000011	1.020e+003	000028	1.130e+003
000012	1.165e+003	000029	1.075e+003
000013	1.048e+003	000030	1.075e+003
000014	1.243e+003		
000015	9.970e+002		
000016	1.028e+003		
000017	1.016e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14045B

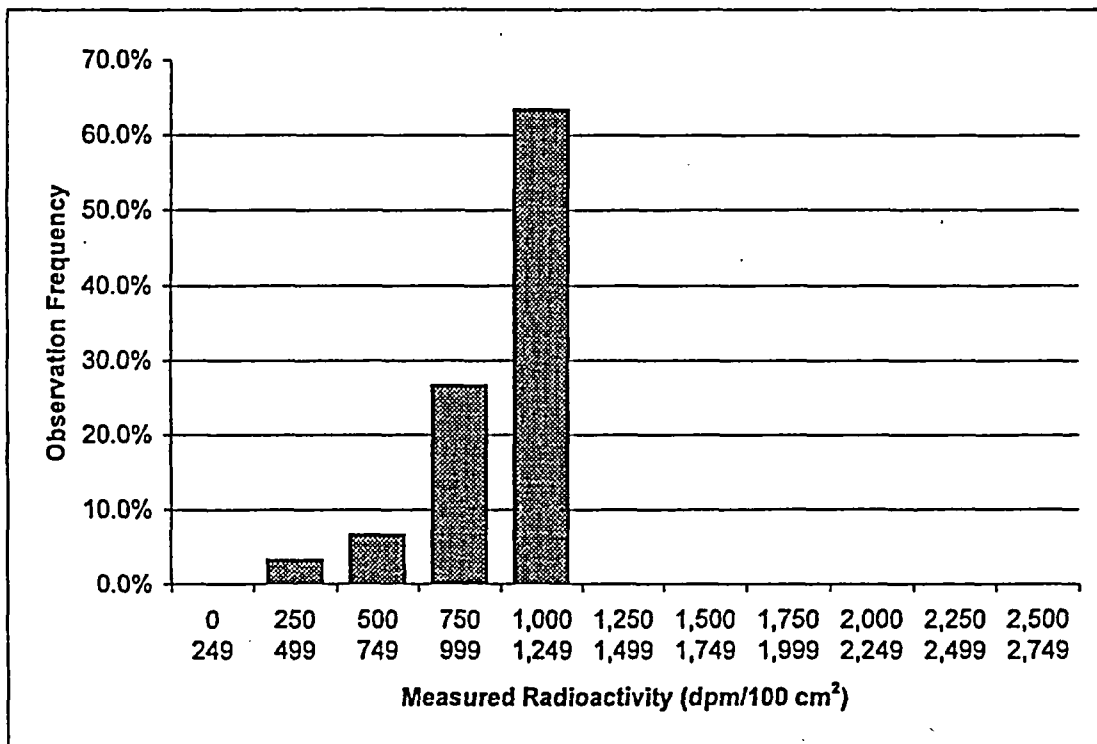
Classification: Class 3

Survey Unit Name: Fuel Building Lower and Radioactive Waste
Annex East Exterior Walls

Size (m²): 414

Measurement Data Statistical Evaluation

Statistical Quantities Tests				Statistical Quantities	
Calculated Acceptance				Range:	750
Test	Value	Criteria	Acceptable?	Median:	1,030
Range	750	811	Pass	Mean:	1,008
Median	0.134	0.500	Pass	Std Dev:	162
Mean	1,008	10,500	Pass	Minimum:	493
Std Dev	162	4,200	Pass	Maximum:	1,243
				DCGL:	21,000



Plot Parameters		Interval	High	Low	Number	Frequency
# of measurements:	30	1	249	0	0	0.0%
# of intervals:	11	2	499	250	1	3.3%
Interval increment:	250	3	749	500	2	6.7%
Minimum:	0	4	999	750	8	26.7%
Maximum:	2,749	5	1,249	1,000	19	63.3%
		6	1,499	1,250	0	0.0%
		7	1,749	1,500	0	0.0%
		8	1,999	1,750	0	0.0%
		9	2,249	2,000	0	0.0%
		10	2,499	2,250	0	0.0%
		11	2,749	2,500	0	0.0%
		Total:			30	100%

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14045B **Classification:** Class 3
Survey Unit Name: Fuel Building Lower and Radioactive Waste **Size (m²):** 414
Annex East Exterior Walls

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta **Scan Coverage (%):** 5
Measurement Units: dpm/100cm² **Investigation Level:** 21,000
Minimum Value: 1,017 **Maximum Value:** 1,587

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

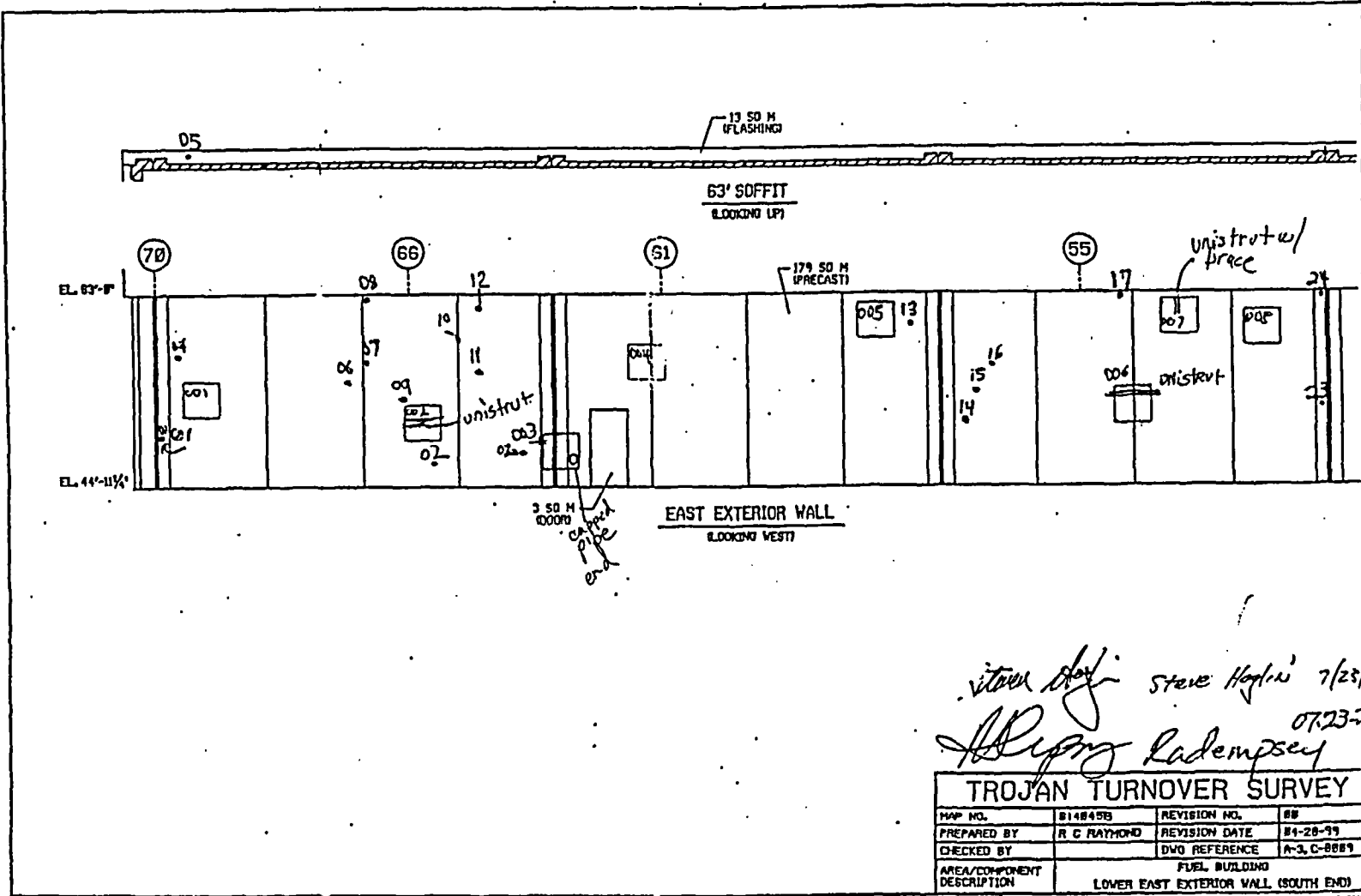
Survey Unit ID Code: S14045B

Survey Unit Name: Fuel Building Lower and Radioactive Waste Annex East Exterior Walls

Classification: Class 3

Size (m²): 414

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

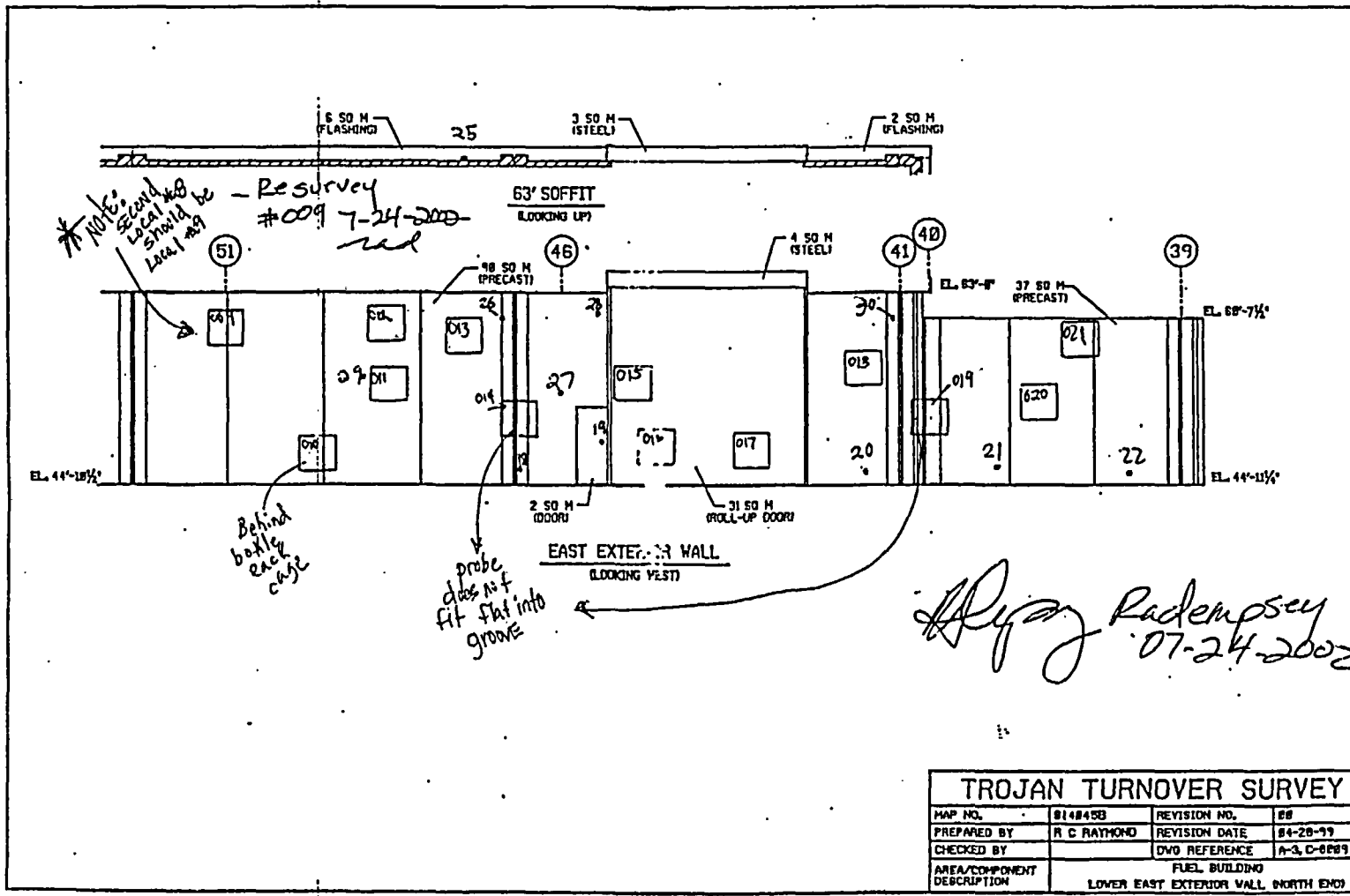
Survey Unit ID Code: S14045B

Survey Unit Name: Fuel Building Lower and Radioactive Waste Annex East Exterior Walls

Classification: Class 3

Size (m²): 414

Static Measurement Locations Map



TROJAN TURNOVER SURVEY			
MAP NO.	S14045B	REVISION NO.	06
PREPARED BY	R C RAYMOND	REVISION DATE	04-28-99
CHECKED BY		DWG REFERENCE	A-3, D-0809
AREA/COMPONENT DESCRIPTION	FUEL BUILDING LOWER EAST EXTERIOR WALL (NORTH END)		

FILE NAME: S411

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14045C

Classification: Class 3

Survey Unit Name: Fuel Building South Exterior Walls

Size (m²): 643

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 6.434e+002
 Maximum Value : 1.233e+003
 Range : 5.896e+002
 Median : 7.975e+002
 Std. Deviation : 1.968e+002
 Mean : 8.955e+002
 95% UCL : 9.565e+002

Measurement Values

Location	Value	Location	Value
000001	7.359e+002	000018	8.360e+002
000002	6.742e+002	000019	7.513e+002
000003	7.127e+002	000020	6.434e+002
000004	7.975e+002	000021	1.229e+003
000005	7.744e+002	000022	1.156e+003
000006	7.474e+002	000023	1.071e+003
000007	8.514e+002	000024	1.102e+003
000008	7.744e+002	000025	1.133e+003
000009	7.436e+002	000026	1.183e+003
000010	7.705e+002	000027	1.156e+003
000011	9.978e+002	000028	1.144e+003
000012	7.975e+002	000029	1.233e+003
000013	6.511e+002	000030	1.071e+003
000014	6.973e+002		
000015	7.859e+002		
000016	9.169e+002		
000017	7.282e+002		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14045C
 Survey Unit Name: Fuel Building South Exterior Walls

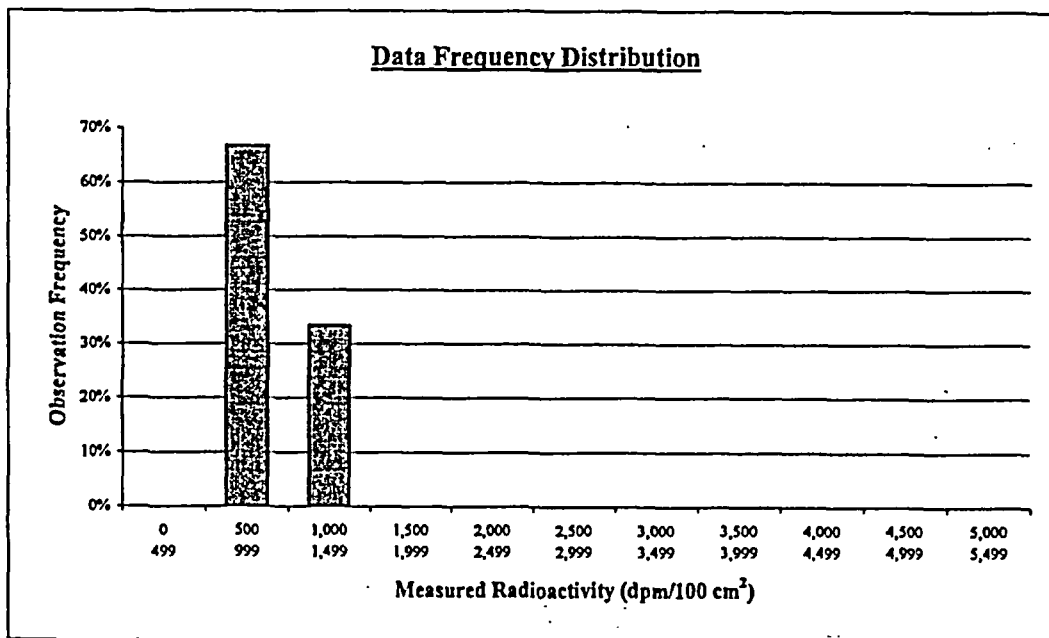
Classification: Class 3
 Size (m²): 643

Measurement Data Statistical Evaluation

Statistical Comparisons			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	590	984	Pass
Median	0.496	0.500	Pass
Mean	896	10,500	Pass
Std Dev	197	4,200	Pass

All data less than DCGL; Sign statistical test not required.

Statistical Quantities	
Range:	590
Median:	798
Mean:	896
Std Dev:	197
Minimum:	643
Maximum:	1,233
DCGL:	21,000



Plot Parameters	
# of measurements:	30
# of intervals:	11
Interval increment:	500
Minimum:	0
Maximum:	5,499

Comment:
None.

Interval	High End	Low End	Number of Observations	Observation Frequency
1	499	0	0	0%
2	999	500	20	67%
3	1,499	1,000	10	33%
4	1,999	1,500	0	0%
5	2,499	2,000	0	0%
6	2,999	2,500	0	0%
7	3,499	3,000	0	0%
8	3,999	3,500	0	0%
9	4,499	4,000	0	0%
10	4,999	4,500	0	0%
11	5,499	5,000	0	0%
Total:			30	100%

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14045C
Survey Unit Name: Fuel Building South Exterior Walls

Classification: Class 3
Size (m²): 643

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 1,195

Scan Coverage (%): 5
Investigation Level: 21,000
Maximum Value: 1,624

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 40

Number of Measurements: 30
Investigation Level: 2,100
Maximum Value: 82

Discussion of Anomalous Measurement Data

Investigation Summary

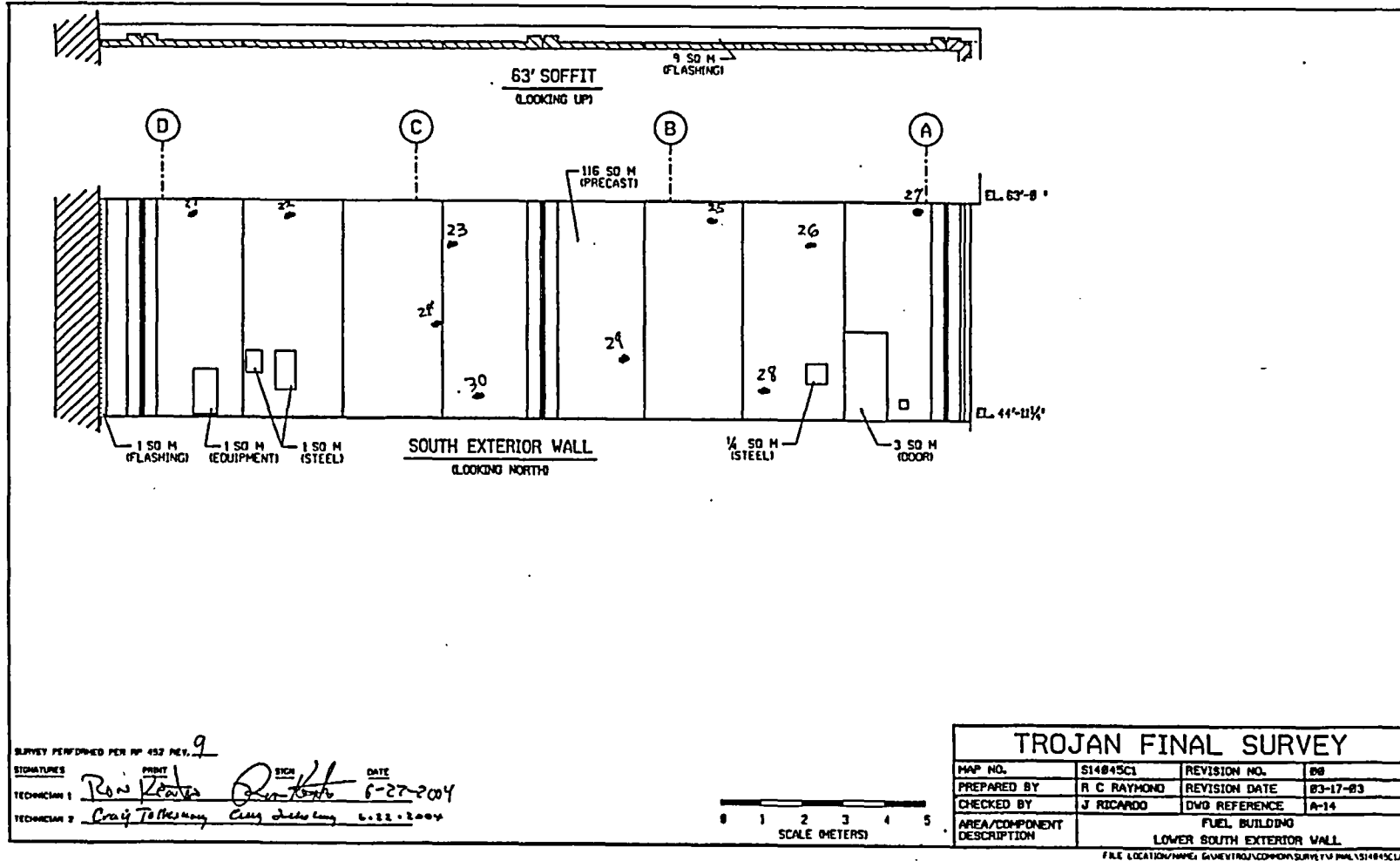
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14045C
 Survey Unit Name: Fuel Building South Exterior Walls

Classification: Class 3
 Size (m²): 643

Static Measurement Locations Map

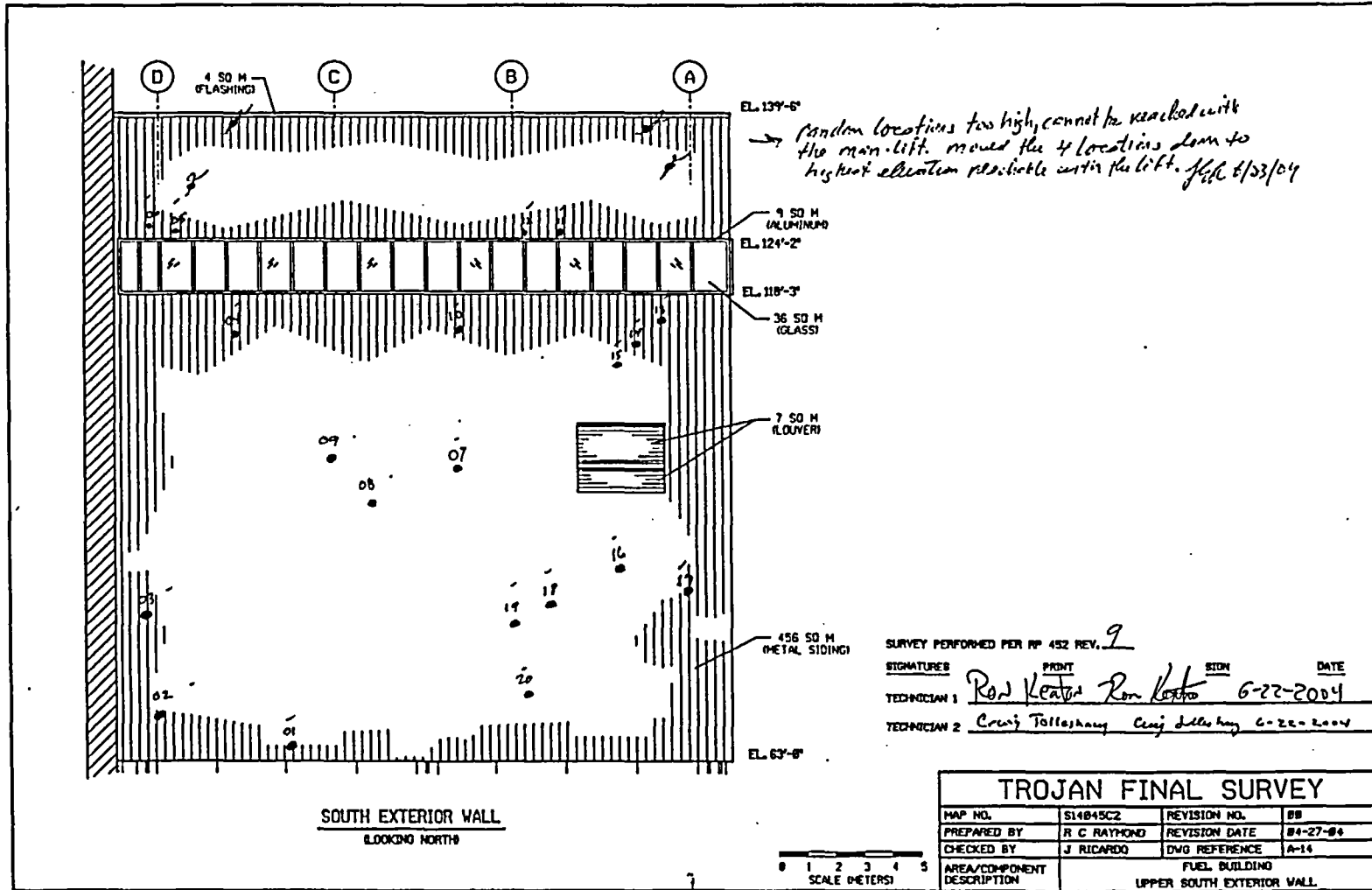


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14045C
 Survey Unit Name: Fuel Building South Exterior Walls

Classification: Class 3
 Size (m²): 643

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14063A
Survey Unit Name: Fuel Building Upper North
 and West Exterior Walls

Classification: Class 3
Size (m²): 1,008

Data Quality Values

Type 1 Error : 5.000e-002 **Type 2 Error** : 5.000e-002
Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
Minimum Value : 1.286e+003
Maximum Value : 3.803e+003
Range : 2.517e+003
Median : 1.667e+003
Std. Deviation : 5.938e+002
Mean : 1.986e+003
95% UCL : 2.170e+003

Measurement Values

Location	Value	Location	Value
000001	1.659e+003	000018	1.613e+003
000002	2.094e+003	000019	1.634e+003
000003	2.082e+003	000020	1.667e+003
000004	1.851e+003	000021	1.550e+003
000005	1.876e+003	000022	2.429e+003
000006	1.956e+003	000023	2.710e+003
000007	1.654e+003	000024	2.551e+003
000008	1.512e+003	000025	2.492e+003
000009	1.520e+003	000026	2.400e+003
000010	1.286e+003	000027	2.924e+003
000011	1.474e+003	000028	2.513e+003
000012	1.487e+003	000029	3.037e+003
000013	1.638e+003	000030	3.803e+003
000014	1.562e+003		
000015	1.495e+003		
000016	1.453e+003		
000017	1.667e+003		

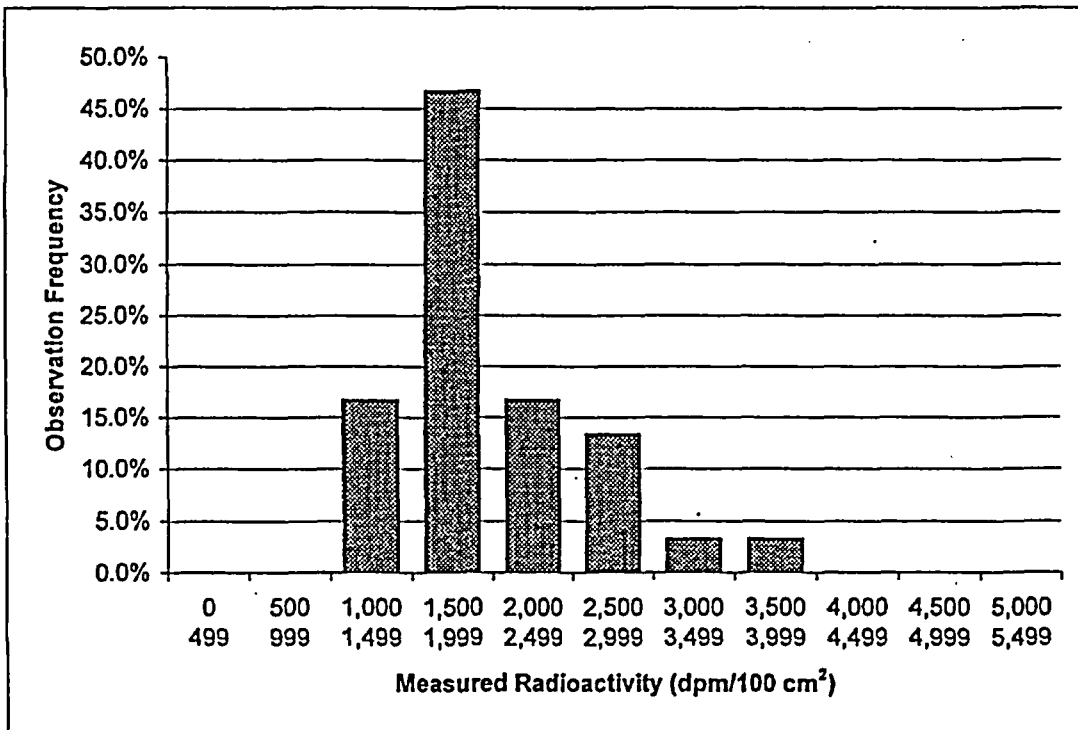
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14063A
Survey Unit Name: Fuel Building Upper North
 and West Exterior Walls

Classification: Class 3
Size (m²): 1,008

Measurement Data Statistical Evaluation

<u>Statistical Quantities Tests</u>				<u>Statistical Quantities</u>	
Test	Value	Criteria	Acceptable?		
Range	2,517	2,969	Pass	Range:	2,517
Median	0.538	0.500	FAIL (see comment)	Median:	1,667
Mean	1,986	10,500	Pass	Mean:	1,986
Std Dev	594	4,200	Pass	Std Dev:	594
				Minimum:	1,286
				Maximum:	3,803
				DCGL:	21,000



<u>Plot Parameters</u>		<u>Interval</u>	<u>High</u>	<u>Low</u>	<u>Number</u>	<u>Frequency</u>
# of measurements:	30	1	499	0	0	0.0%
# of intervals:	11	2	999	500	0	0.0%
Interval increment:	500	3	1,499	1,000	5	16.7%
Minimum:	0	4	1,999	1,500	14	46.7%
Maximum:	5,499	5	2,499	2,000	5	16.7%
		6	2,999	2,500	4	13.3%
		7	3,499	3,000	1	3.3%
		8	3,999	3,500	1	3.3%
		9	4,499	4,000	0	0.0%
		10	4,999	4,500	0	0.0%
		11	5,499	5,000	0	0.0%
				Total:	30	100%

Comment:
 Median failure is a test artifact, due to increasing values from gamma shine for measurement locations that approach the location of the spent fuel pool (right skewed frequency distribution). All of the measurement values are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14063A

Classification: Class 3

Survey Unit Name: Fuel Building Upper North
and West Exterior Walls

Size (m²): 1,008

Judgmental and Miscellaneous Measurement Data

No judgmental or miscellaneous data collected.

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

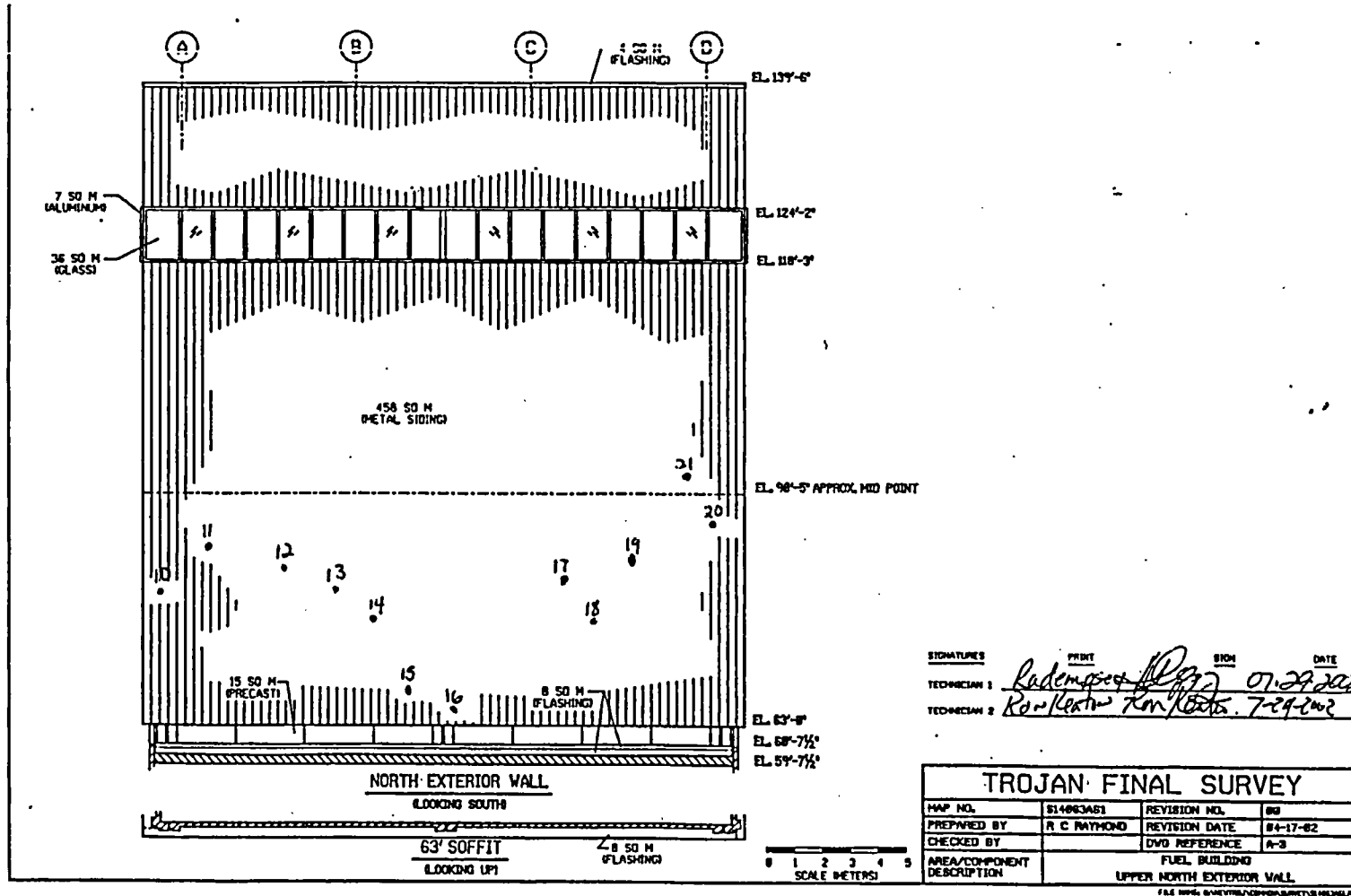
Survey Unit ID Code: S14063A

Survey Unit Name: Fuel Building Upper North and West Exterior Walls

Classification: Class 3

Size (m²): 1,008

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

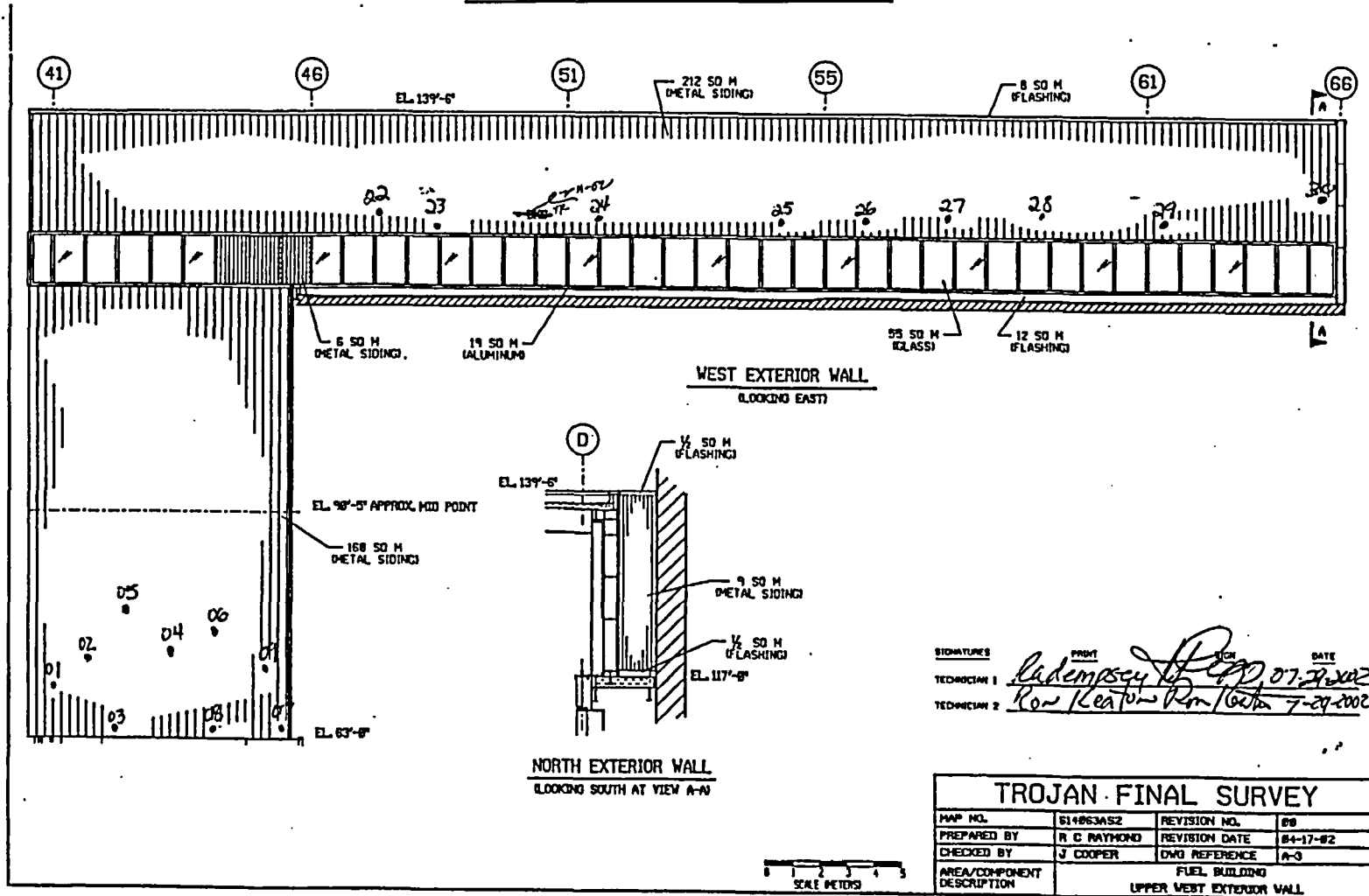
Survey Unit ID Code: S14063A

Survey Unit Name: Fuel Building Upper North and West Exterior Walls

Classification: Class 3

Size (m²): 1,008

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14063B
 Survey Unit Name: Fuel Building Upper East Exterior Wall

Classification: Class 3
 Size (m²): 1,215

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 1.051e+003
 Maximum Value : 4.324e+003
 Range : 3.273e+003
 Median : 1.208e+003
 Std. Deviation : 8.731e+002
 Mean : 1.598e+003
 95% UCL : 1.868e+003

Measurement Values

Location	Value	Location	Value
000001	1.051e+003	000018	1.229e+003
000002	1.176e+003	000019	1.365e+003
000003	1.098e+003	000020	1.475e+003
000004	1.135e+003	000021	1.438e+003
000005	1.061e+003	000022	1.407e+003
000006	1.129e+003	000023	2.599e+003
000007	1.093e+003	000024	3.320e+003
000008	1.244e+003	000025	1.302e+003
000009	1.328e+003	000026	3.373e+003
000010	1.171e+003	000027	4.324e+003
000011	1.187e+003	000028	3.493e+003
000012	1.088e+003	000029	1.166e+003
000013	1.182e+003	000030	1.302e+003
000014	1.182e+003		
000015	1.762e+003		
000016	1.067e+003		
000017	1.187e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14063B

Classification: Class 3

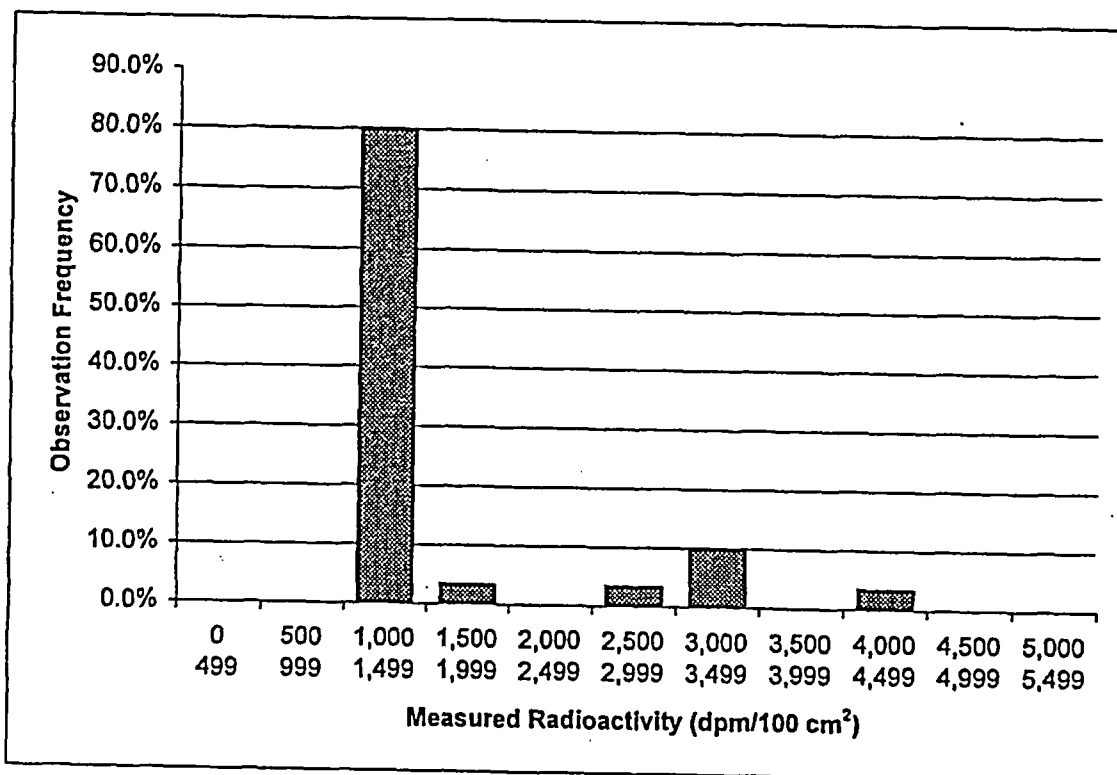
Survey Unit Name: Fuel Building Upper East Exterior Wall

Size (m²): 1,215

Measurement Data Statistical Evaluation

Statistical Quantities Tests			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	3,273	4,366	Pass
Median	0.446	0.500	Pass
Mean	1,598	10,500	Pass
Std Dev	873	4,200	Pass

Statistical Quantities	
Range:	3,273
Median:	1,208
Mean:	1,598
Std Dev:	873
Minimum:	1,051
Maximum:	4,324
DCGL:	21,000



Plot Parameters	
# of measurements:	30
# of intervals:	11
Interval increment:	500
Minimum:	0
Maximum:	5,499

Interval	High	Low	Number	Frequency
1	499	0	0	0.0%
2	999	500	0	0.0%
3	1,499	1,000	24	80.0%
4	1,999	1,500	1	3.3%
5	2,499	2,000	0	0.0%
6	2,999	2,500	1	3.3%
7	3,499	3,000	3	10.0%
8	3,999	3,500	0	0.0%
9	4,499	4,000	1	3.3%
10	4,999	4,500	0	0.0%
11	5,499	5,000	0	0.0%
Total:			30	100%

Comment:

Data set right skewed due to spent fuel pool demineralizer system inside building. The five locations that exceed 2,500 dpm were verified by repeat measurements. Narrow gamma streaming from the demineralizer system causes localized higher readings on outside wall.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14063B

Classification: Class 3

Survey Unit Name: Fuel Building Upper East Exterior Wall

Size (m²): 1,215

Judgmental and Miscellaneous Measurement Data

Measurement Type: Removable Beta

Number of Measurements: 8

Measurement Units: dpm/100cm²

Investigation Level: 2,100

Minimum Value: 5

Maximum Value: 14

Discussion of Anomalous Measurement Data

Investigation Summary

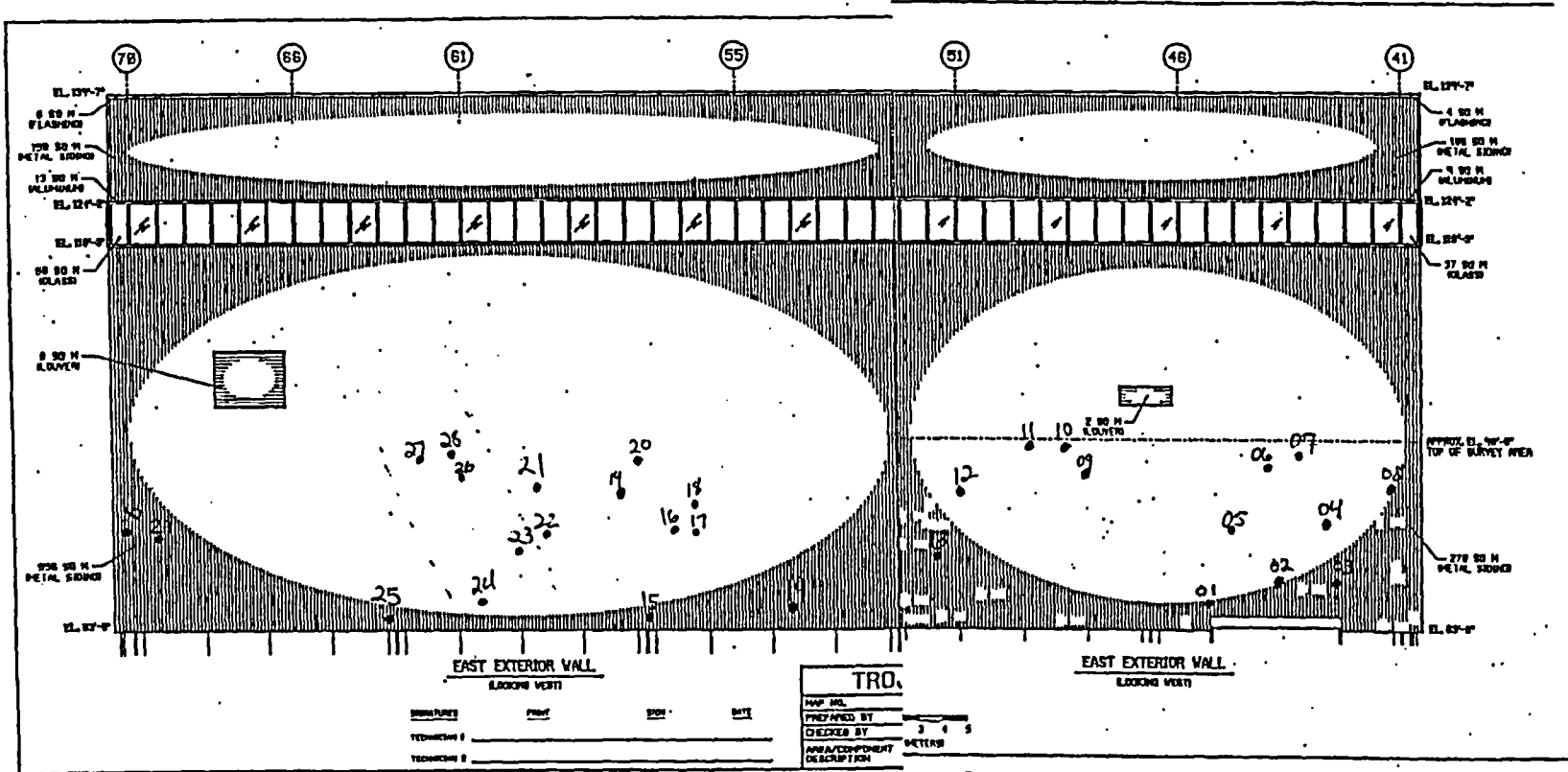
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14063B
 Survey Unit Name: Fuel Building Upper East Exterior Wall

Classification: Class 3
 Size (m²): 1,215

Static Measurement Locations Map



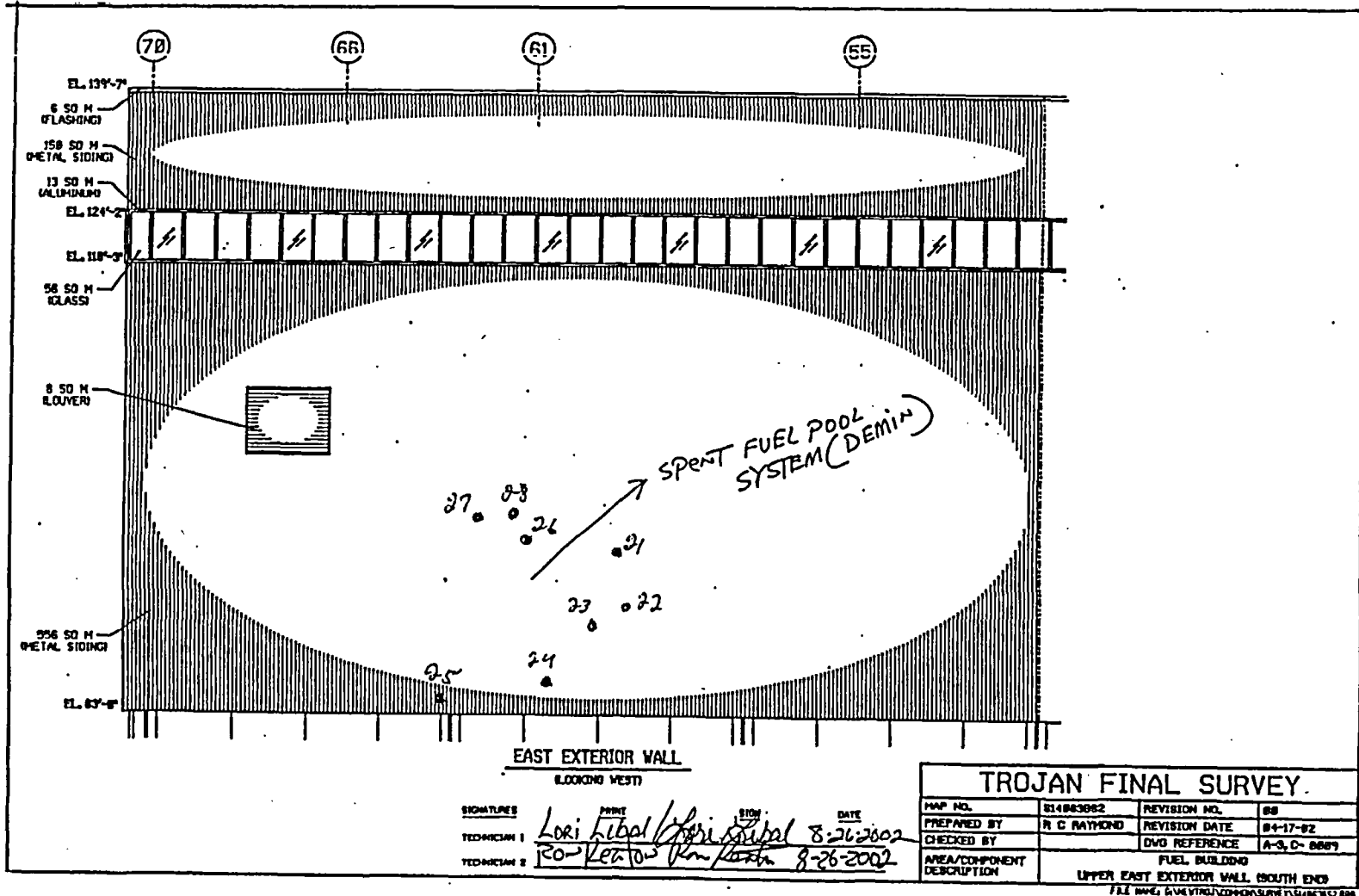
DATE: 7-25-2002
 Tech: F. D. Dison
 R. Dempsey

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14063B
 Survey Unit Name: Fuel Building Upper East Exterior Wall

Classification: Class 3
 Size (m²): 1,215

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14138A

Classification: Class 3

Survey Unit Name: Fuel Building, Auxiliary Building,

Size (m²): 3,870

Control Building, and Radioactive Waste Annex Roofs

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	45	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 1.286e+003
 Maximum Value : 2.992e+003
 Range : 1.706e+003
 Median : 2.440e+003
 Std. Deviation : 4.455e+002
 Mean : 2.305e+003
 95% UCL : 2.417e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	1.777e+003	000018	1.388e+003	000035	2.440e+003
000002	2.687e+003	000019	1.565e+003	000036	2.709e+003
000003	2.086e+003	000020	2.749e+003	000037	2.683e+003
000004	2.422e+003	000021	1.750e+003	000038	2.701e+003
000005	2.687e+003	000022	2.391e+003	000039	2.639e+003
000006	2.749e+003	000023	2.484e+003	000040	2.736e+003
000007	1.887e+003	000024	2.303e+003	000041	2.435e+003
000008	1.772e+003	000025	1.878e+003	000042	2.740e+003
000009	1.799e+003	000026	2.365e+003	000043	2.404e+003
000010	1.675e+003	000027	2.409e+003	000044	2.612e+003
000011	2.480e+003	000028	2.524e+003	000045	2.454e+003
000012	2.391e+003	000029	2.457e+003		
000013	1.702e+003	000030	2.484e+003		
000014	2.568e+003	000031	2.656e+003		
000015	1.286e+003	000032	2.762e+003		
000016	1.609e+003	000033	2.992e+003		
000017	1.657e+003	000034	2.785e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14138A

Classification: Class 3

Survey Unit Name: Fuel Building, Auxiliary Building,

Size (m²): 3,870

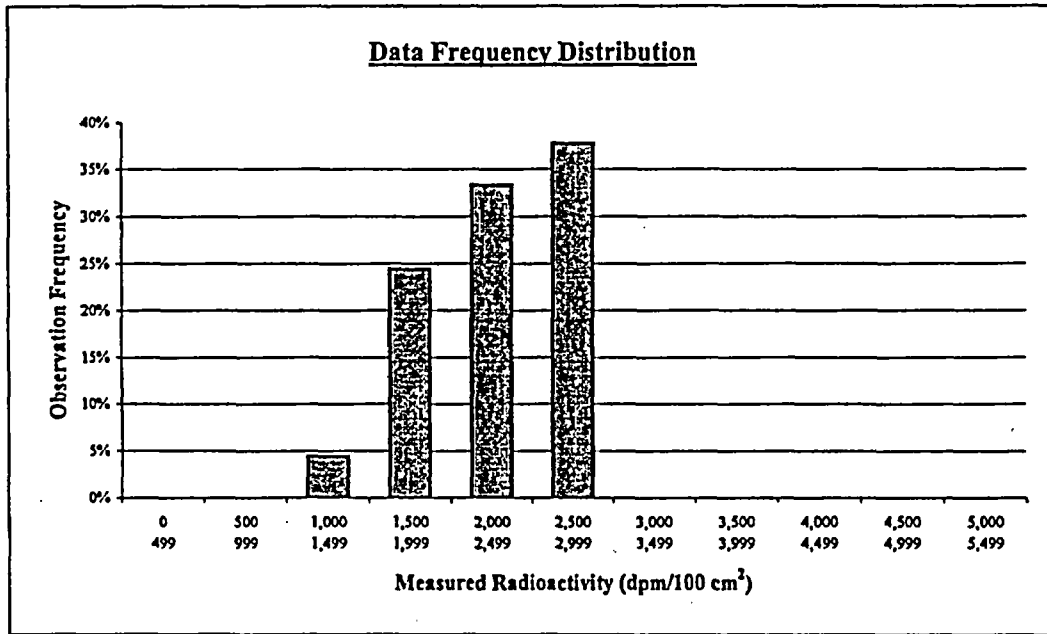
Control Building, and Radioactive Waste Annex Roofs

Measurement Data Statistical Evaluation

Statistical Comparisons			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	1,706	2,228	Pass
Median	0.303	0.500	Pass
Mean	2,305	10,500	Pass
Std Dev	446	4,200	Pass

Statistical Quantities	
Range:	1,706
Median:	2,440
Mean:	2,305
Std Dev:	446
Minimum:	1,286
Maximum:	2,992
DCGL:	21,000

All data less than DCGL; Sign statistical test not required.



Plot Parameters	
# of measurements:	45
# of intervals:	11
Interval increment:	500
Minimum:	0
Maximum:	5,499

Interval	High End	Low End	Number of Observations	Observation Frequency
1	499	0	0	0%
2	999	500	0	0%
3	1,499	1,000	2	4%
4	1,999	1,500	11	24%
5	2,499	2,000	15	33%
6	2,999	2,500	17	38%
7	3,499	3,000	0	0%
8	3,999	3,500	0	0%
9	4,499	4,000	0	0%
10	4,999	4,500	0	0%
11	5,499	5,000	0	0%
Total:			45	100%

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14138A

Classification: Class 3

Survey Unit Name: Fuel Building, Auxiliary Building,

Size (m²): 3,870

Control Building, and Radioactive Waste Annex Roofs

Judgmental and Miscellaneous Measurement Data

Measurement Type: Removable Beta

Number of Measurements: 45

Measurement Units: dpm/100cm²

Investigation Level: 2,100

Minimum Value: 6

Maximum Value: 83

Discussion of Anomalous Measurement Data

Investigation Summary

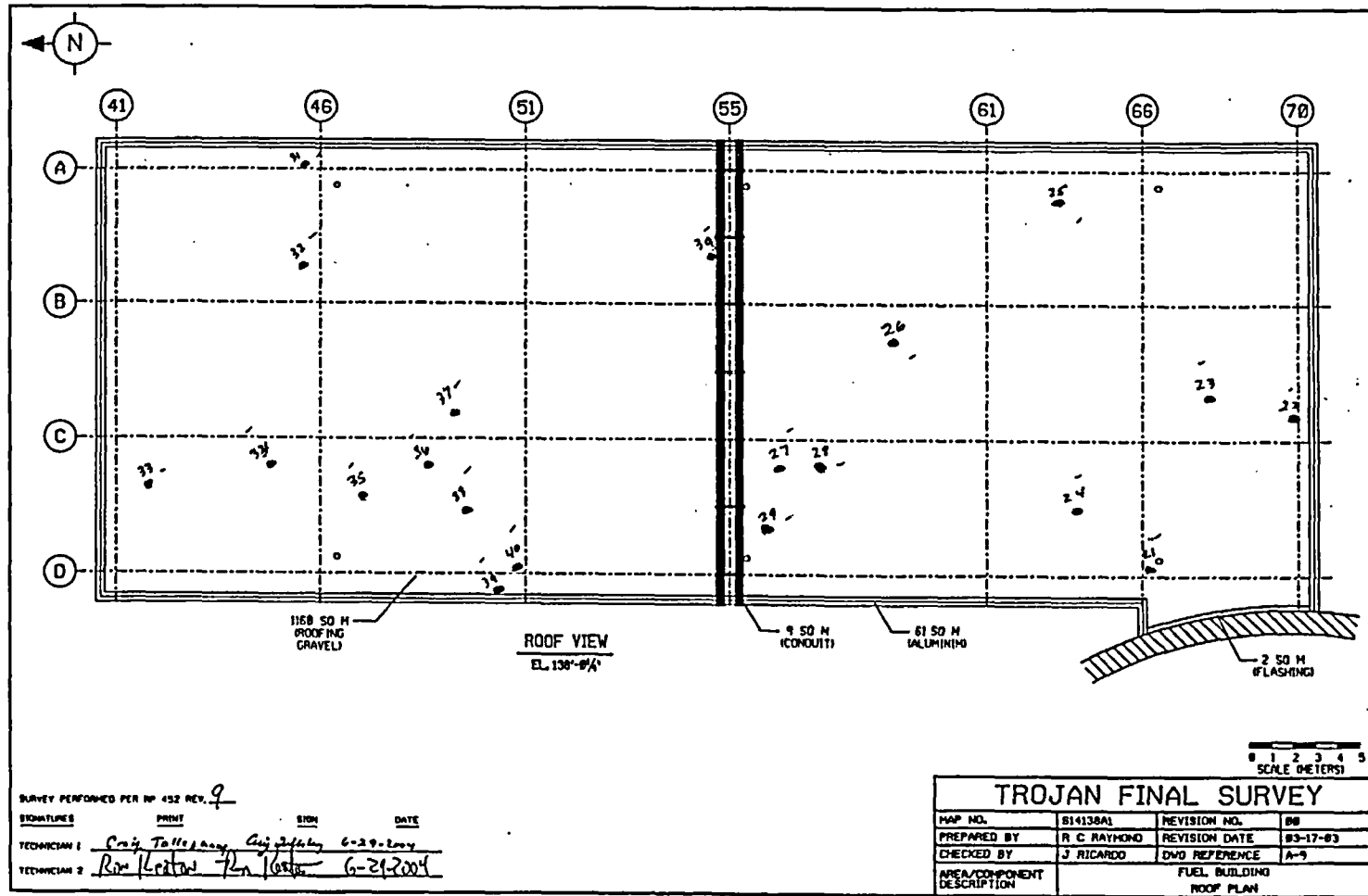
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14138A
 Survey Unit Name: Fuel Building, Auxiliary Building,
 Control Building, and Radioactive Waste Annex Roofs

Classification: Class 3
 Size (m²): 3,870

Static Measurement Locations Map

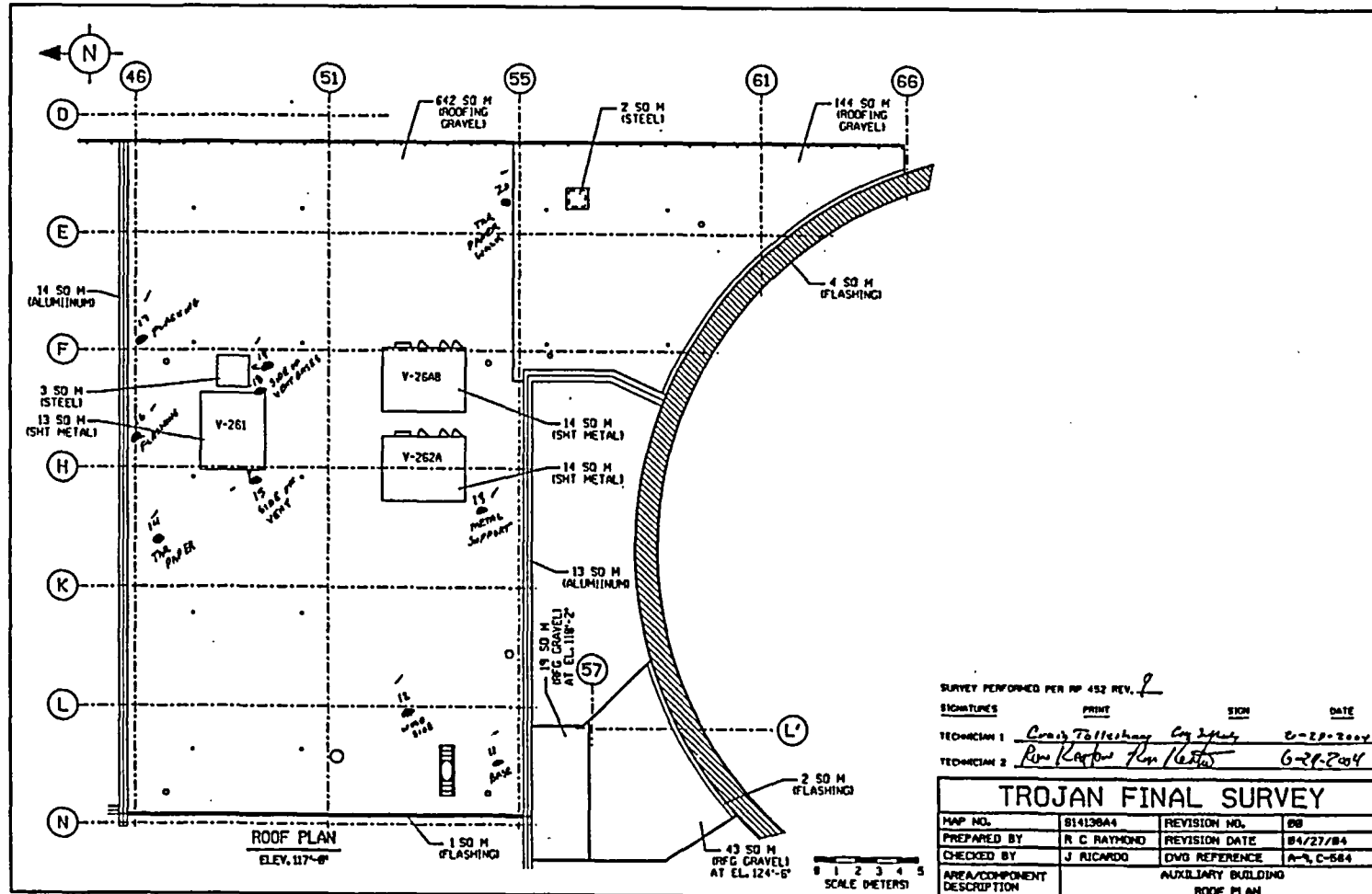


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14138A
 Survey Unit Name: Fuel Building, Auxiliary Building,
 Control Building, and Radioactive Waste Annex Roofs

Classification: Class 3
 Size (m²): 3,870

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 2

SIGNATURES	PRINT	SKN	DATE
TECHNICIAN 1	<i>Craig Tolleshaug</i>	<i>Craig Tolleshaug</i>	8-28-2004
TECHNICIAN 2	<i>Rino Ruffalo</i>	<i>Rino Ruffalo</i>	6-27-2004

TROJAN FINAL SURVEY			
MAP NO.	S14138A4	REVISION NO.	06
PREPARED BY	R C RAYMOND	REVISION DATE	04/27/04
CHECKED BY	J RICARDO	DWG REFERENCE	A-3, C-584
AREA/COMPONENT DESCRIPTION	AUXILIARY BUILDING ROOF PLAN		

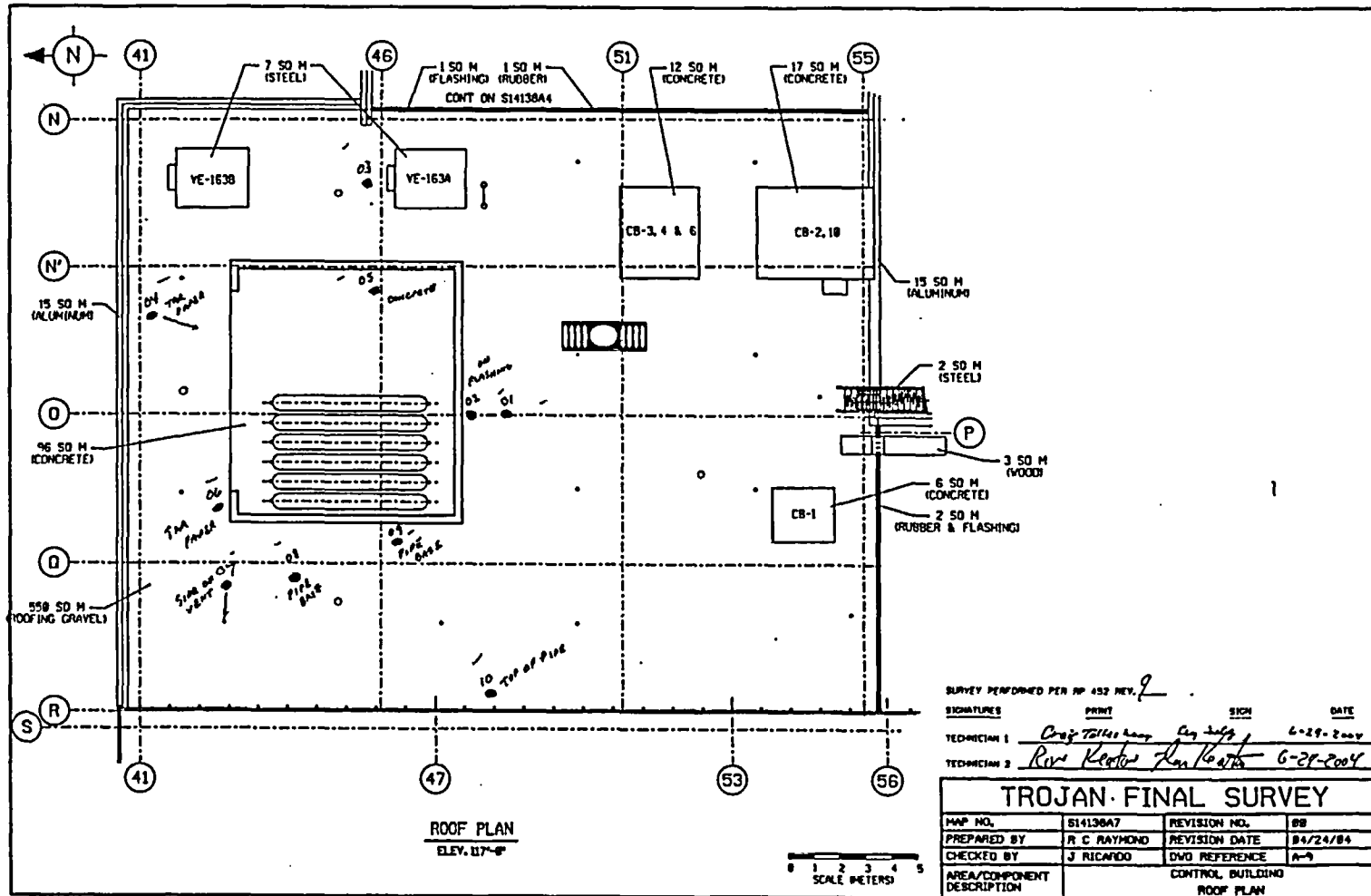
FILE LOCATION: \\G:\VE\TRJ\CD\REPORTS\TRJ\FINAL\S14138A4

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14138A
 Survey Unit Name: Fuel Building, Auxiliary Building,
 Control Building, and Radioactive Waste Annex Roofs

Classification: Class 3
 Size (m²): 3,870

Static Measurement Locations Map

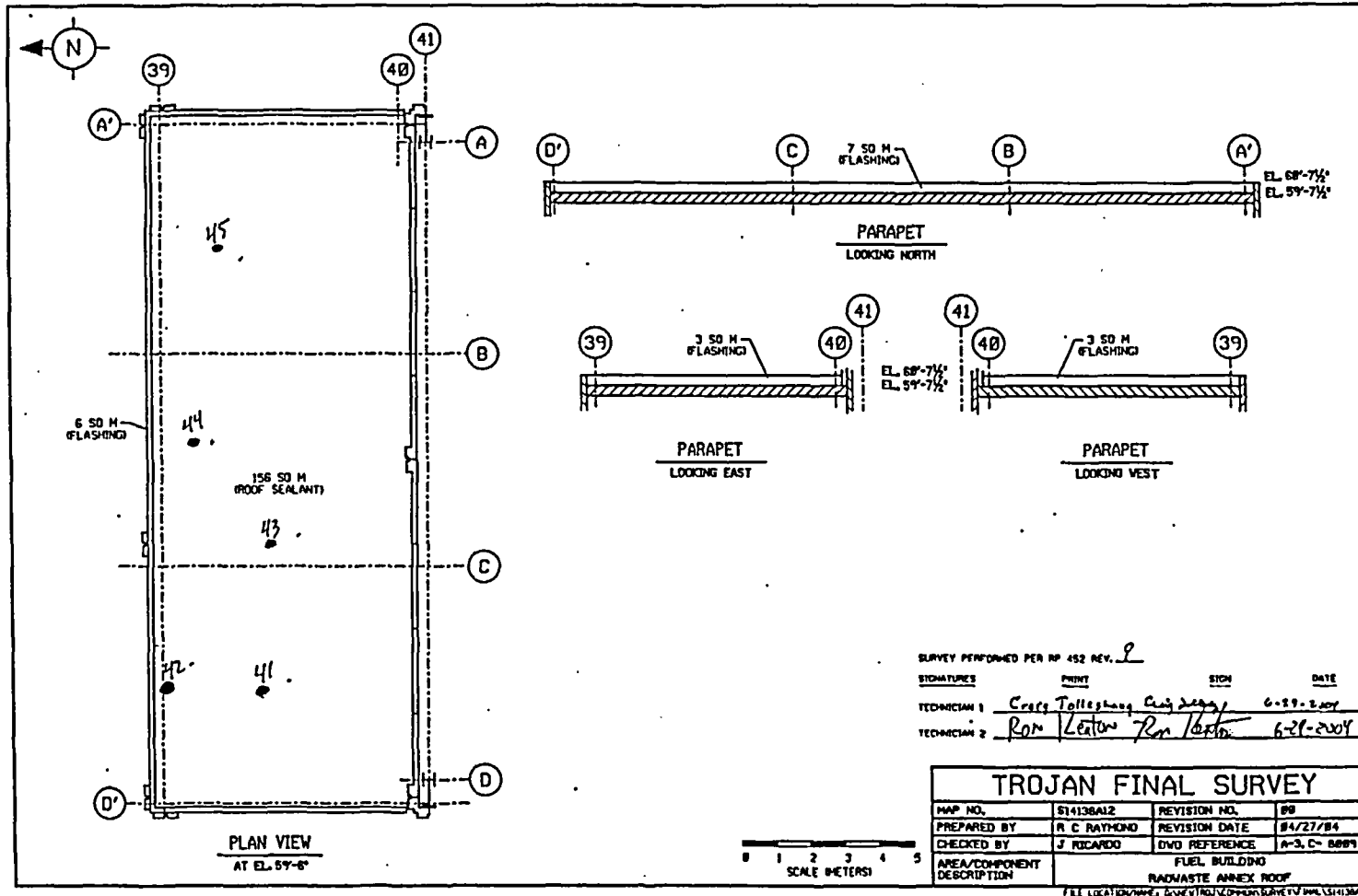


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14138A
 Survey Unit Name: Fuel Building, Auxiliary Building,
 Control Building, and Radioactive Waste Annex Roofs

Classification: Class 3
 Size (m²): 3,870

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S15045A

Classification: Class 3

Survey Unit Name: Auxiliary Building Lower North Exterior Wall Size (m²): 233

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 9.344e+002
 Maximum Value : 1.220e+003
 Range : 2.856e+002
 Median : 1.099e+003
 Std. Deviation : 6.739e+001
 Mean : 1.097e+003
 95% UCL : 1.118e+003

Measurement Values

Location	Value	Location	Value
000001	1.122e+003	000018	1.095e+003
000002	1.118e+003	000019	1.071e+003
000003	9.344e+002	000020	1.067e+003
000004	1.173e+003	000021	1.075e+003
000005	1.149e+003	000022	1.103e+003
000006	1.095e+003	000023	1.200e+003
000007	1.056e+003	000024	1.161e+003
000008	1.220e+003	000025	1.134e+003
000009	1.001e+003	000026	1.036e+003
000010	1.126e+003	000027	1.118e+003
000011	1.138e+003	000028	1.103e+003
000012	1.204e+003	000029	1.091e+003
000013	1.040e+003	000030	1.161e+003
000014	9.618e+002		
000015	1.079e+003		
000016	1.079e+003		
000017	1.013e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S15045A

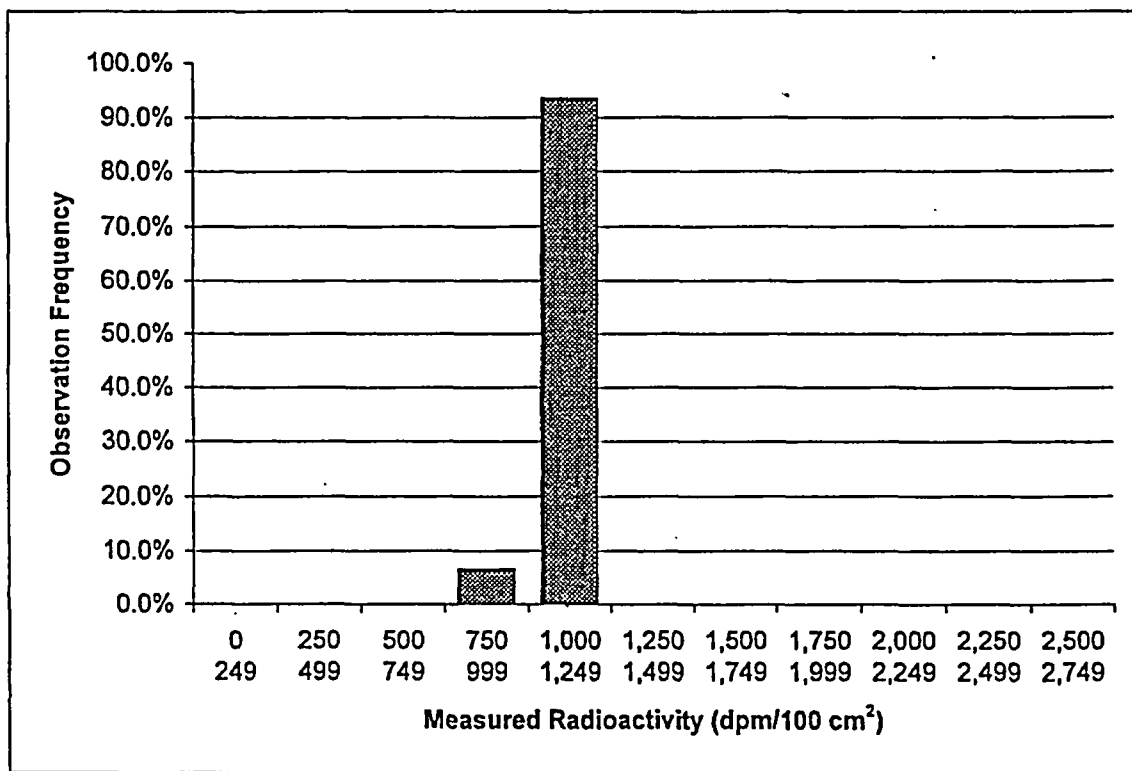
Classification: Class 3

Survey Unit Name: Auxiliary Building Lower North Exterior Wall

Size (m²): 233

Measurement Data Statistical Evaluation

Statistical Quantities Tests				Statistical Quantities	
Test	Value	Criteria	Acceptable?	Range:	286
Range	286	337	Pass	Median:	1,099
Median	0.023	0.500	Pass	Mean:	1,097
Mean	1,097	10,500	Pass	Std Dev:	67
Std Dev	67	4,200	Pass	Minimum:	934
				Maximum:	1,220
				DCGL:	21,000



Plot Parameters		Interval	High	Low	Number	Frequency
# of measurements:	30	1	249	0	0	0.0%
# of intervals:	11	2	499	250	0	0.0%
Interval increment:	250	3	749	500	0	0.0%
Minimum:	0	4	999	750	2	6.7%
Maximum:	2,749	5	1,249	1,000	28	93.3%
		6	1,499	1,250	0	0.0%
		7	1,749	1,500	0	0.0%
		8	1,999	1,750	0	0.0%
		9	2,249	2,000	0	0.0%
		10	2,499	2,250	0	0.0%
		11	2,749	2,500	0	0.0%
		Total:			30	100%

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S15045A

Classification: Class 3

Survey Unit Name: Auxiliary Building Lower North Exterior Wall

Size (m²): 233

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 5

Measurement Units: dpm/100cm²

Investigation Level: 21,000

Minimum Value: 1,106

Maximum Value: 1,573

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

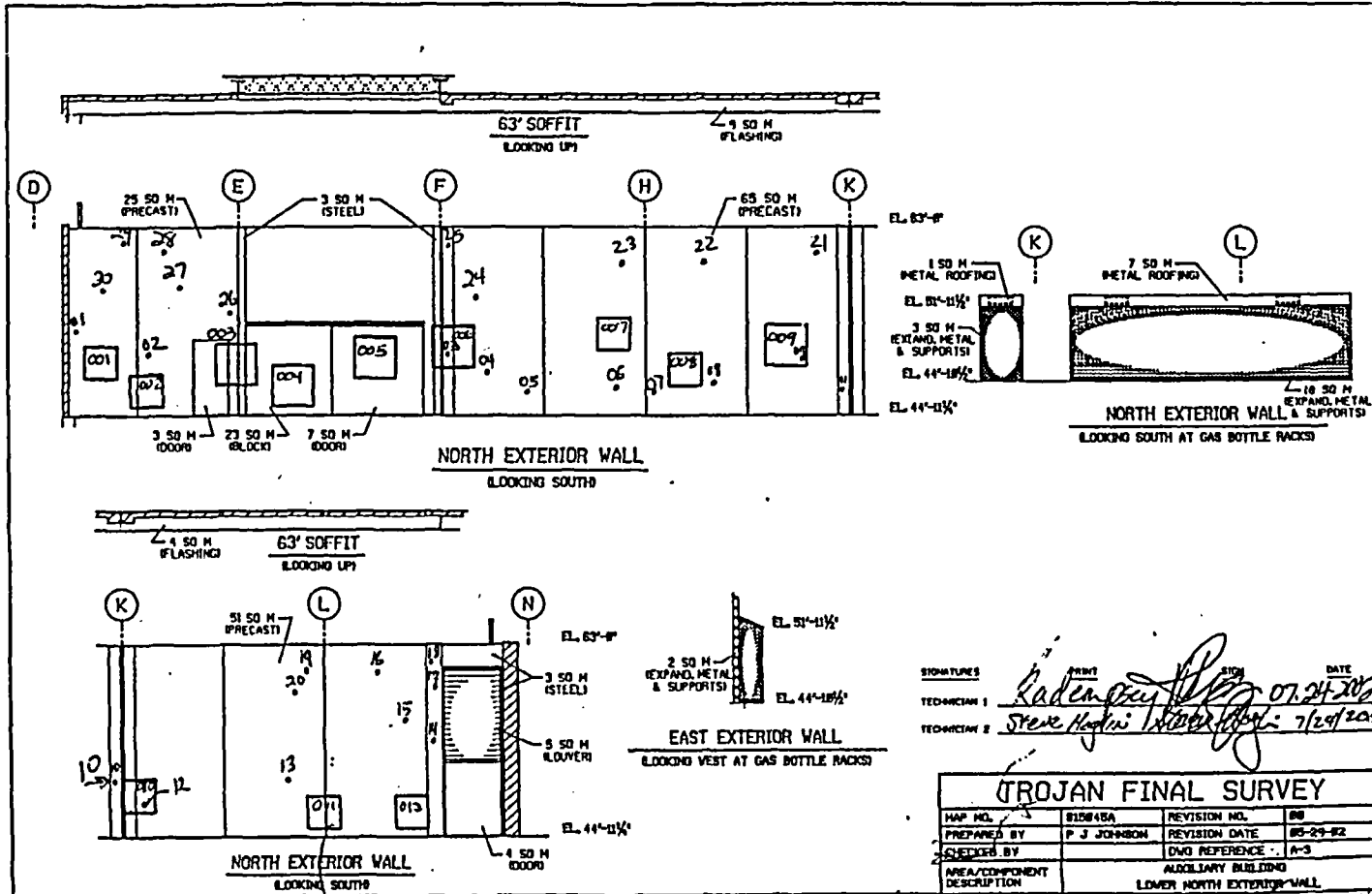
Survey Unit ID Code: S15045A

Survey Unit Name: Auxiliary Building Lower North Exterior Wall

Classification: Class 3

Size (m²): 233

Static Measurement Locations Map



behind
Bottle
Rack
cage

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S15063A

Classification: Class 3

Survey Unit Name: Auxiliary Building Upper North Exterior Wall

Size (m²): 552

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
.1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 9.759e+002
 Maximum Value : 1.386e+003
 Range : 4.101e+002
 Median : 1.232e+003
 Std. Deviation : 9.325e+001
 Mean : 1.220e+003
 95% UCL : 1.249e+003

Measurement Values

Location	Value	Location	Value
000001	1.194e+003	000018	1.236e+003
000002	9.759e+002	000019	1.114e+003
000003	1.152e+003	000020	1.194e+003
000004	1.227e+003	000021	1.244e+003
000005	1.043e+003	000022	1.257e+003
000006	1.269e+003	000023	1.269e+003
000007	1.219e+003	000024	1.311e+003
000008	1.378e+003	000025	1.336e+003
000009	1.219e+003	000026	1.160e+003
000010	1.097e+003	000027	1.160e+003
000011	1.185e+003	000028	1.336e+003
000012	1.114e+003	000029	1.277e+003
000013	1.265e+003	000030	1.198e+003
000014	1.248e+003		
000015	1.307e+003		
000016	1.386e+003		
000017	1.240e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S15063A

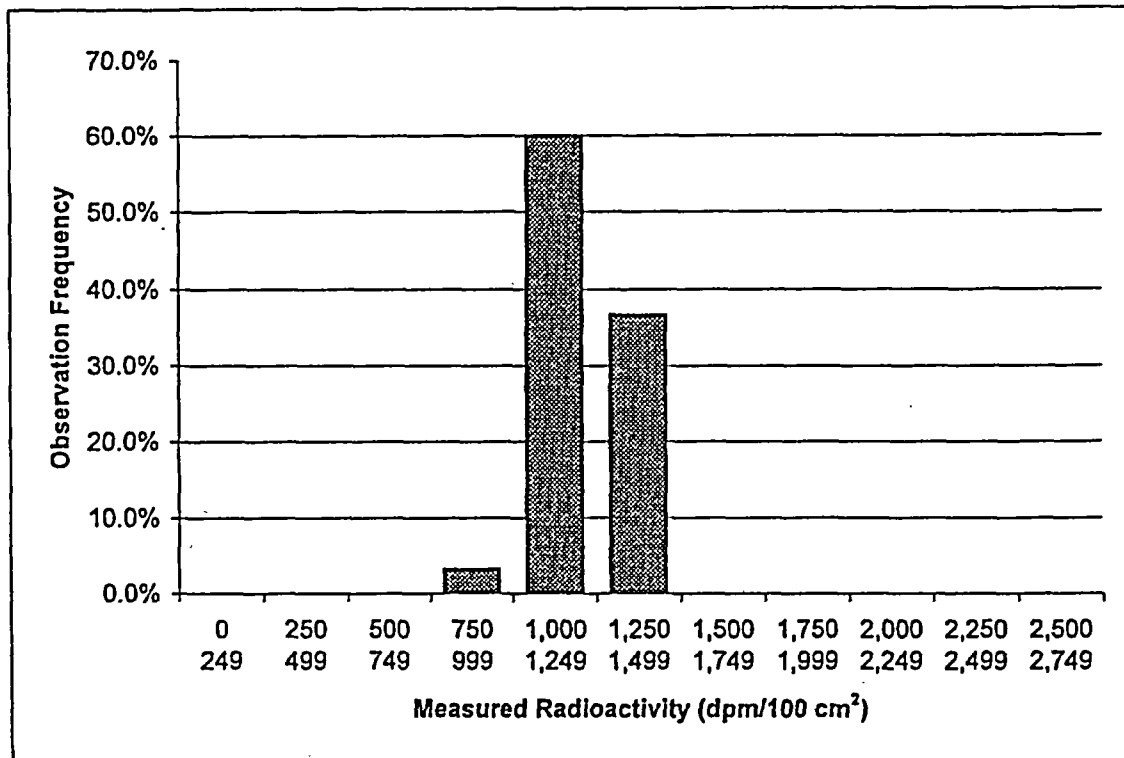
Classification: Class 3

Survey Unit Name: Auxiliary Building Upper North Exterior Wall

Size (m²): 552

Measurement Data Statistical Evaluation

Statistical Quantities Tests				Statistical Quantities	
Test	Value	Criteria	Acceptable?	Range:	410
Range	410	466	Pass	Median:	1,232
Median	0.119	0.500	Pass	Mean:	1,220
Mean	1,220	10,500	Pass	Std Dev:	93
Std Dev	93	4,200	Pass	Minimum:	976
				Maximum:	1,386
				DCGL:	21,000



Plot Parameters		Interval	High	Low	Number	Frequency
# of measurements:	30	1	249	0	0	0.0%
# of intervals:	11	2	499	250	0	0.0%
Interval increment:	250	3	749	500	0	0.0%
Minimum:	0	4	999	750	1	3.3%
Maximum:	2,749	5	1,249	1,000	18	60.0%
		6	1,499	1,250	11	36.7%
		7	1,749	1,500	0	0.0%
		8	1,999	1,750	0	0.0%
		9	2,249	2,000	0	0.0%
		10	2,499	2,250	0	0.0%
		11	2,749	2,500	0	0.0%
		Total:			30	100%

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S15063A

Classification: Class 3

Survey Unit Name: Auxiliary Building Upper North Exterior Wall

Size (m²): 552

Judgmental and Miscellaneous Measurement Data

No judgmental or Miscellaneous data collected.

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

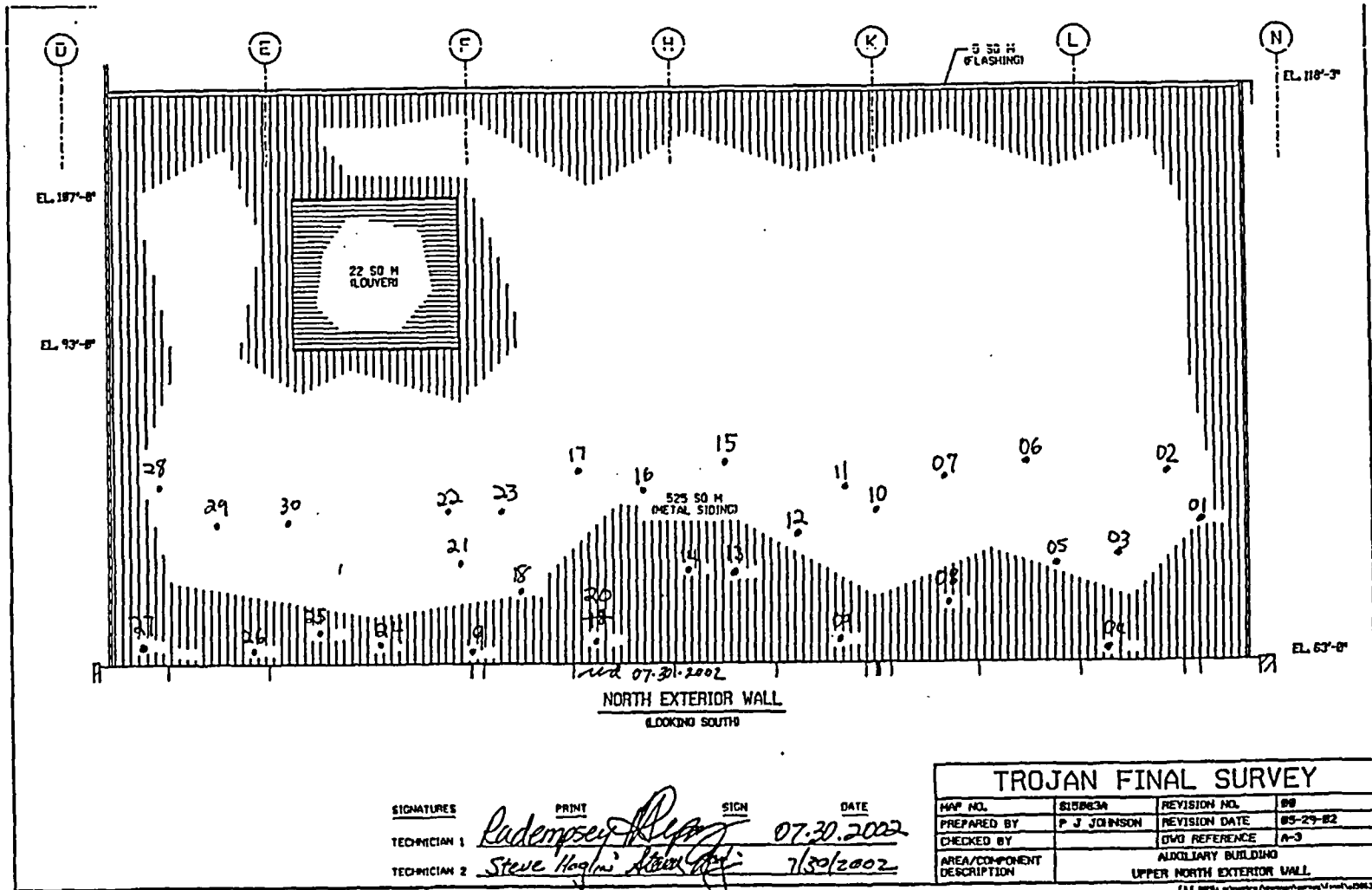
Survey Unit ID Code: S15063A

Survey Unit Name: Auxiliary Building Upper North Exterior Wall

Classification: Class 3

Size (m²): 552

Static Measurement Locations Map



SIGNATURES PRINT SIGN DATE

TECHNICIAN 1 *Rudemsey* *Rudemsey* 07.30.2002

TECHNICIAN 2 *Steve Hagini* *Hagini* 7/30/2002

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S16045A
 Survey Unit Name: Control Building Lower North and East
 Exterior Walls

Classification: Class 3
 Size (m²): 213

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 9.305e+002
 Maximum Value : 1.349e+003
 Range : 4.185e+002
 Median : 1.130e+003
 Std. Deviation : 1.037e+002
 Mean : 1.132e+003
 95% UCL : 1.164e+003

Measurement Values

Location	Value	Location	Value
000001	1.032e+003	000018	1.009e+003
000002	1.181e+003	000019	1.118e+003
000003	1.134e+003	000020	1.130e+003
000004	1.189e+003	000021	1.196e+003
000005	1.235e+003	000022	1.063e+003
000006	1.142e+003	000023	9.618e+002
000007	1.349e+003	000024	1.005e+003
000008	1.208e+003	000025	9.305e+002
000009	1.306e+003	000026	1.103e+003
000010	1.181e+003	000027	1.079e+003
000011	1.329e+003	000028	1.075e+003
000012	1.255e+003	000029	1.095e+003
000013	1.165e+003	000030	1.060e+003
000014	1.130e+003		
000015	1.122e+003		
000016	9.930e+002		
000017	1.181e+003		

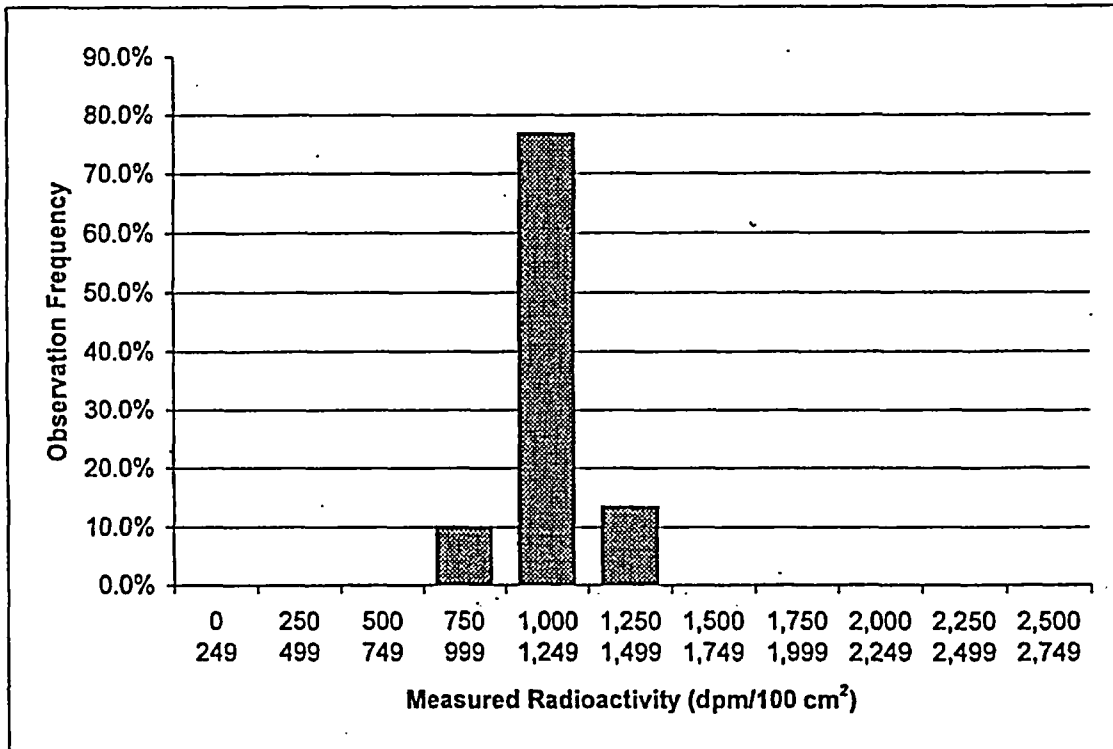
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S16045A
 Survey Unit Name: Control Building Lower North and East
 Exterior Walls

Classification: Class 3
 Size (m²): 213

Measurement Data Statistical Evaluation

Statistical Quantities Tests				Statistical Quantities	
Test	Value	Criteria	Acceptable?	Range:	418
Range	418	518	Pass	Median:	1,130
Median	0.019	0.500	Pass	Mean:	1,132
Mean	1,132	10,500	Pass	Std Dev:	104
Std Dev	104	4,200	Pass	Minimum:	931
				Maximum:	1,349
				DCGL:	21,000



Plot Parameters		Interval	High	Low	Number	Frequency
# of measurements:	30	1	249	0	0	0.0%
# of intervals:	11	2	499	250	0	0.0%
Interval increment:	250	3	749	500	0	0.0%
Minimum:	0	4	999	750	3	10.0%
Maximum:	2,749	5	1,249	1,000	23	76.7%
		6	1,499	1,250	4	13.3%
		7	1,749	1,500	0	0.0%
		8	1,999	1,750	0	0.0%
		9	2,249	2,000	0	0.0%
		10	2,499	2,250	0	0.0%
		11	2,749	2,500	0	0.0%
		Total:			30	100%

Comment:
 NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S16045A

Classification: Class 3

Survey Unit Name: Control Building Lower North and East
Exterior Walls

Size (m²): 213

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 5

Measurement Units: dpm/100cm²

Investigation Level: 21,000

Minimum Value: 1,185

Maximum Value: 1,922

Discussion of Anomalous Measurement Data

Investigation Summary

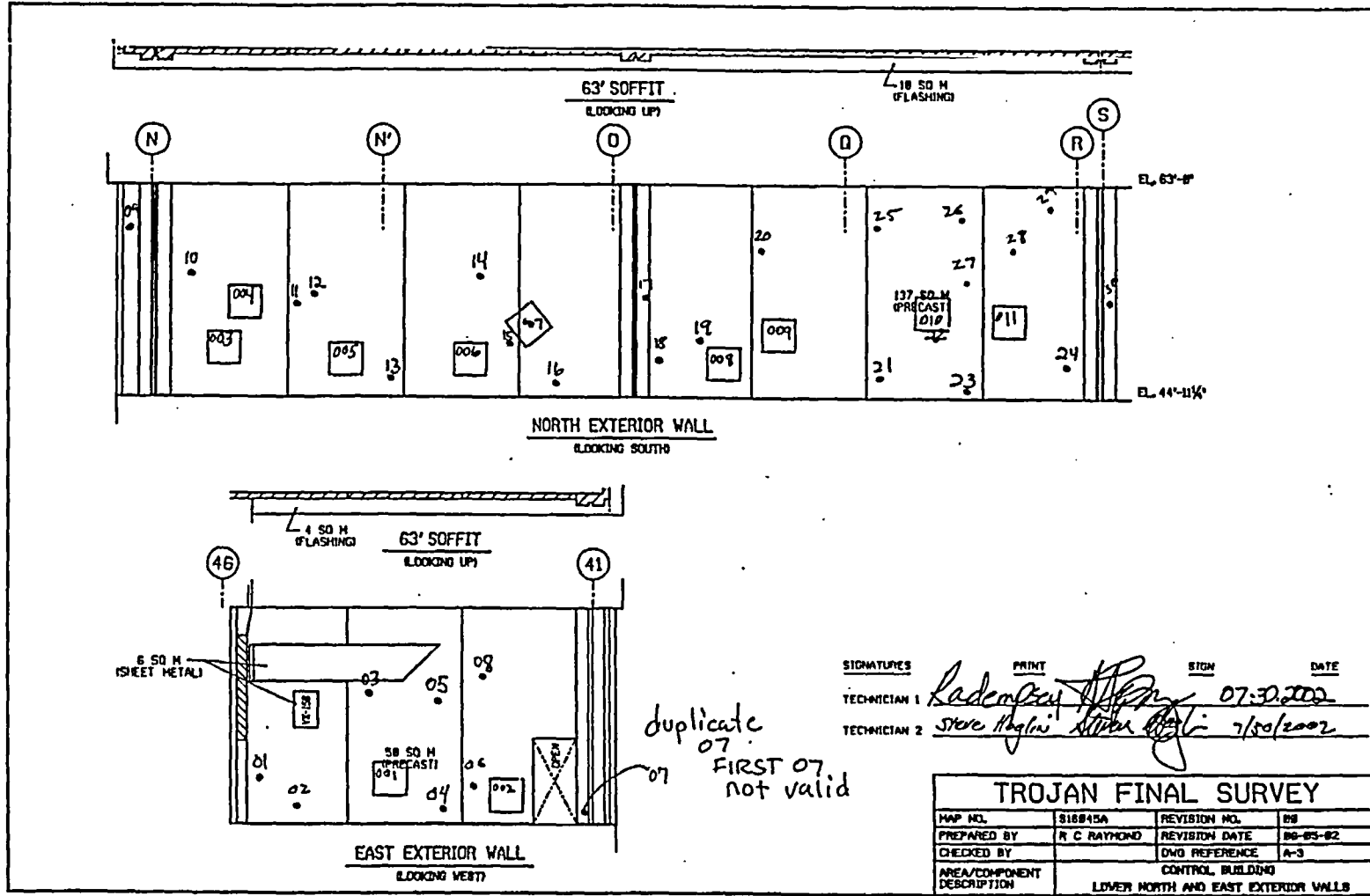
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S16045A
 Survey Unit Name: Control Building Lower North and East Exterior Walls

Classification: Class 3
 Size (m²): 213

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S16063A
 Survey Unit Name: Control Building Upper North and East
 Exterior Walls

Classification: Class 3
 Size (m²): 579

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 1.123e+003
 Maximum Value : 1.441e+003
 Range : 3.180e+002
 Median : 1.298e+003
 Std. Deviation : 7.534e+001
 Mean : 1.296e+003
 95% UCL : 1.319e+003

Measurement Values

Location	Value	Location	Value
000001	1.365e+003	000018	1.328e+003
000002	1.181e+003	000019	1.160e+003
000003	1.332e+003	000020	1.123e+003
000004	1.261e+003	000021	1.307e+003
000005	1.294e+003	000022	1.294e+003
000006	1.261e+003	000023	1.298e+003
000007	1.298e+003	000024	1.210e+003
000008	1.227e+003	000025	1.382e+003
000009	1.340e+003	000026	1.282e+003
000010	1.332e+003	000027	1.277e+003
000011	1.303e+003	000028	1.361e+003
000012	1.365e+003	000029	1.412e+003
000013	1.231e+003	000030	1.282e+003
000014	1.194e+003		
000015	1.441e+003		
000016	1.361e+003		
000017	1.382e+003		

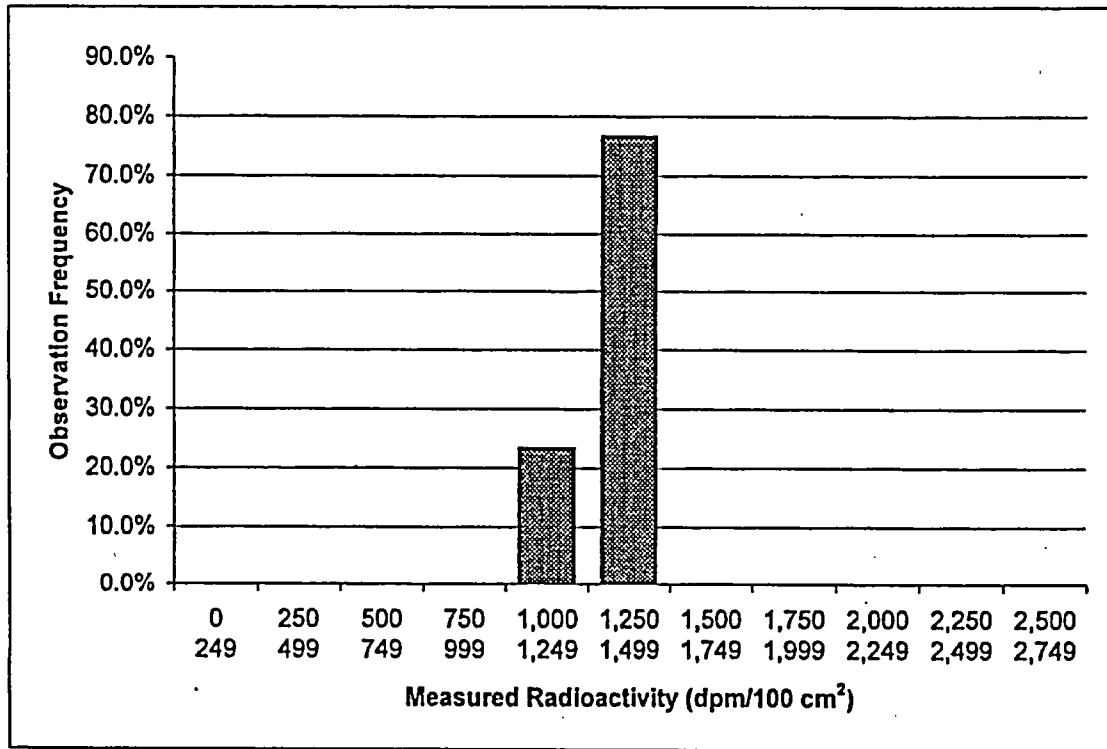
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S16063A
Survey Unit Name: Control Building Upper North and East
 Exterior Walls

Classification: Class 3
Size (m²): 579

Measurement Data Statistical Evaluation

Statistical Quantities Tests				Statistical Quantities	
Test	Calculated Value	Acceptance Criteria	Acceptable?		
Range	318	377	Pass	Range:	318
Median	0.025	0.500	Pass	Median:	1,298
Mean	1,296	10,500	Pass	Mean:	1,296
Std Dev	75	4,200	Pass	Std Dev:	75
				Minimum:	1,123
				Maximum:	1,441
				DCGL:	21,000



Plot Parameters		Interval	High	Low	Number	Frequency
# of measurements:	30	1	249	0	0	0.0%
# of intervals:	11	2	499	250	0	0.0%
Interval increment:	250	3	749	500	0	0.0%
Minimum:	0	4	999	750	0	0.0%
Maximum:	2,749	5	1,249	1,000	7	23.3%
		6	1,499	1,250	23	76.7%
		7	1,749	1,500	0	0.0%
		8	1,999	1,750	0	0.0%
		9	2,249	2,000	0	0.0%
		10	2,499	2,250	0	0.0%
		11	2,749	2,500	0	0.0%
		Total:			30	100%

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S16063A

Classification: Class 3

Survey Unit Name: Control Building Upper North and East
Exterior Walls

Size (m²): 579

Judgmental and Miscellaneous Measurement Data

No judgmental or miscellaneous data collected.

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

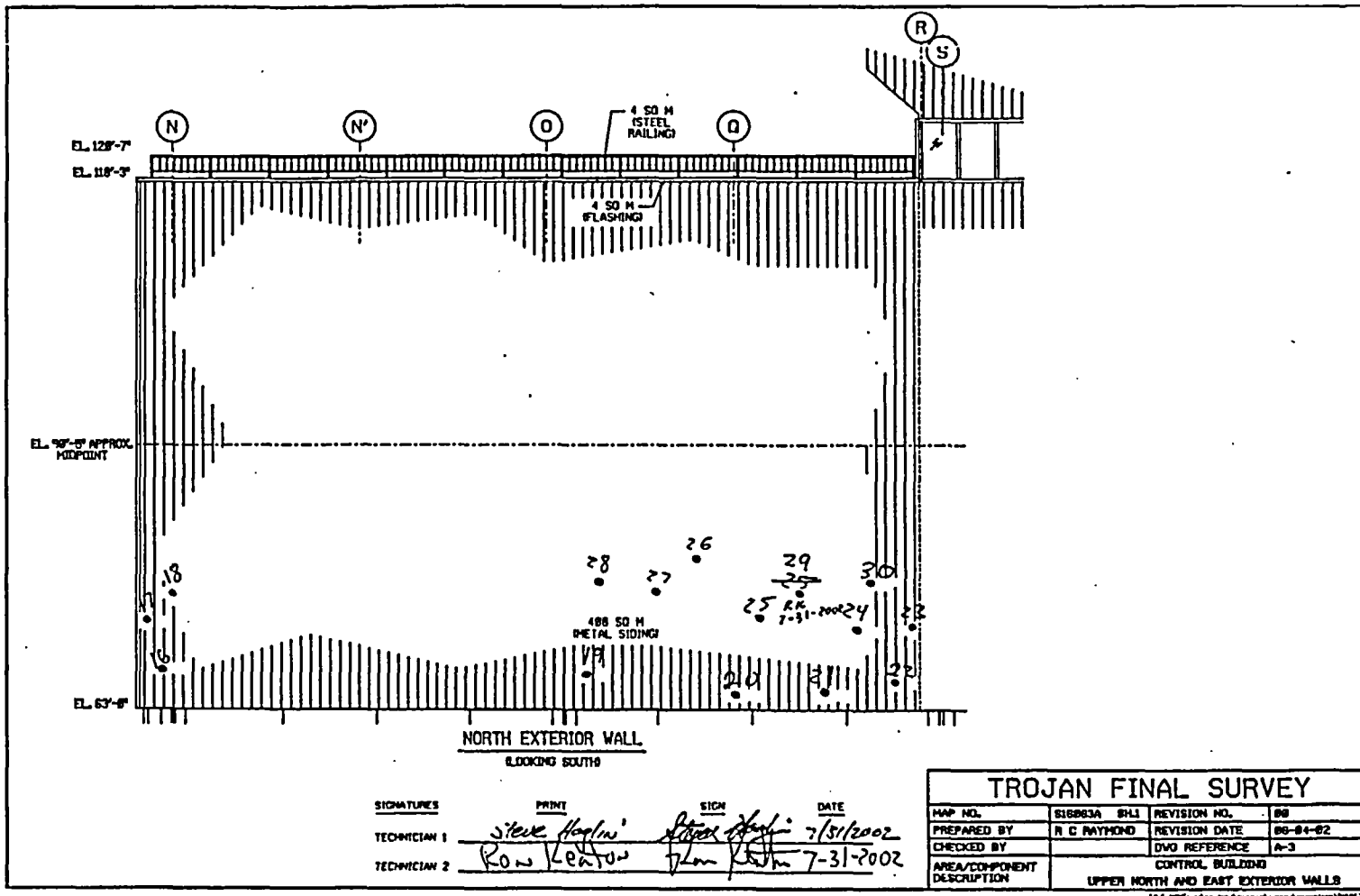
Survey Unit ID Code: S16063A

Survey Unit Name: Control Building Upper North and East Exterior Walls

Classification: Class 3

Size (m²): 579

Static Measurement Locations Map

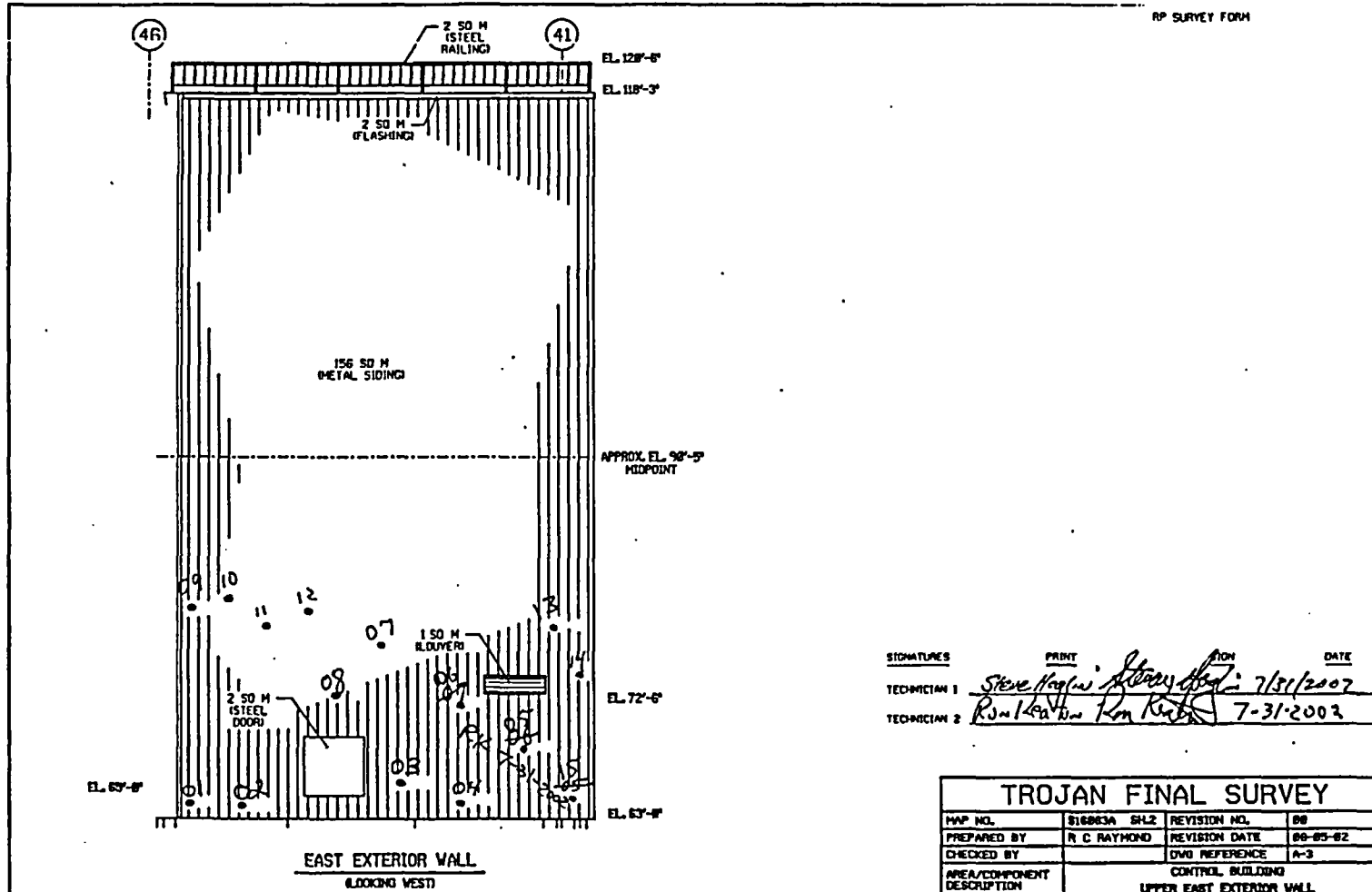


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S16063A
 Survey Unit Name: Control Building Upper North and East Exterior Walls

Classification: Class 3
 Size (m²): 579

Static Measurement Locations Map



RP SURVEY FORM

SIGNATURES PRINT DATE
 TECHNICIAN 1 *Steve Higgins* Steve Higgins 7/31/2007
 TECHNICIAN 2 *Ron Rabe* Ron Rabe 7-31-2007

TROJAN FINAL SURVEY			
MAP NO.	S16063A SH2	REVISION NO.	08
PREPARED BY	R C RAYMOND	REVISION DATE	08-05-02
CHECKED BY		DWG REFERENCE	A-3
AREA/COMPONENT DESCRIPTION	CONTROL BUILDING UPPER EAST EXTERIOR WALL		

FILE NAME: g:\trojan\finalsurvey\survey\upper\upper\080624.dwg

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S17045A
 Survey Unit Name: Condensate Demineralizer Building
 Exterior Walls and Roof

Classification: Class 3
 Size (m²): 1,340

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 9.024e+002
 Maximum Value : 3.348e+003
 Range : 2.446e+003
 Median : 1.350e+003
 Std. Deviation : 4.890e+002
 Mean : 1.445e+003
 95% UCL : 1.596e+003

Measurement Values

Location	Value	Location	Value
000001	1.301e+003	000018	1.398e+003
000002	1.354e+003	000019	1.346e+003
000003	1.068e+003	000020	9.991e+002
000004	1.354e+003	000021	1.446e+003
000005	2.405e+003	000022	1.257e+003
000006	1.736e+003	000023	9.830e+002
000007	3.348e+003	000024	1.398e+003
000008	1.579e+003	000025	1.003e+003
000009	2.316e+003	000026	1.019e+003
000010	1.317e+003	000027	1.253e+003
000011	1.329e+003	000028	1.394e+003
000012	1.333e+003	000029	1.636e+003
000013	1.462e+003	000030	1.543e+003
000014	1.269e+003		
000015	1.370e+003		
000016	1.217e+003		
000017	9.024e+002		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S17045A
 Survey Unit Name: Condensate Demineralizer Building
 Exterior Walls and Roof

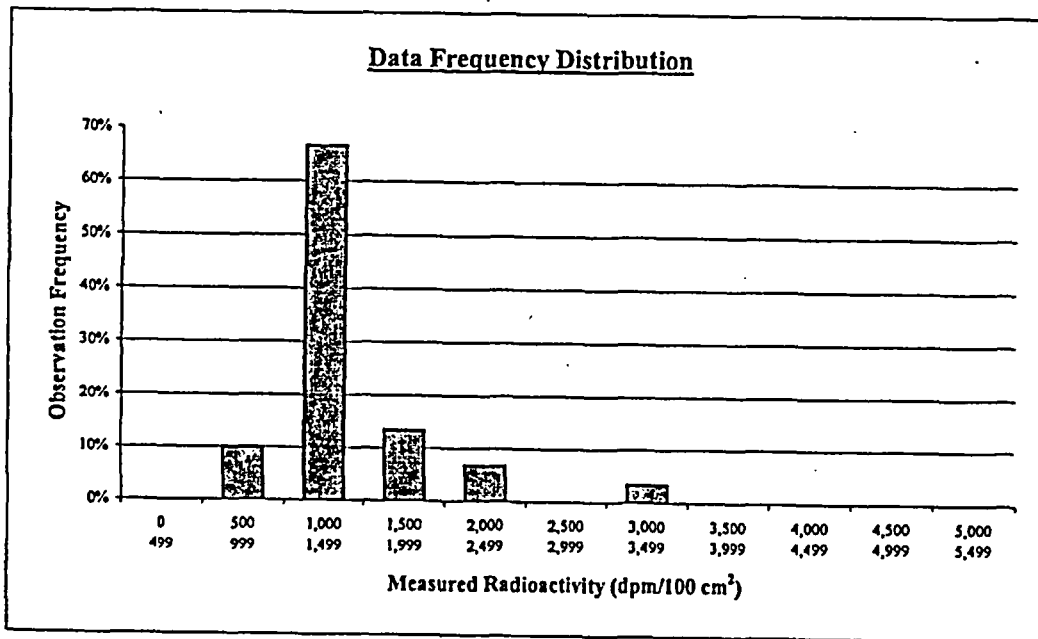
Classification: Class 3
 Size (m²): 1,340

Measurement Data Statistical Evaluation

Statistical Comparisons			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	2,446	2,446	Pass
Median	0.193	0.500	Pass
Mean	1,445	10,500	Pass
Std Dev	489	4,200	Pass

Statistical Quantities	
Range:	2,446
Median:	1,350
Mean:	1,445
Std Dev:	489
Minimum:	902
Maximum:	3,348
DCGL:	21,000

All data less than DCGL; Sign statistical test not required.



Plot Parameters		Interval		High End	Low End	Number of Observations	Observation Frequency
# of measurements:	30	1	499	0	0	0	0%
# of intervals:	11	2	999	500	3	10%	
Interval increment:	500	3	1,499	1,000	20	67%	
Minimum:	0	4	1,999	1,500	4	13%	
Maximum:	5,499	5	2,499	2,000	2	7%	
		6	2,999	2,500	0	0%	
		7	3,499	3,000	1	3%	
		8	3,999	3,500	0	0%	
		9	4,499	4,000	0	0%	
		10	4,999	4,500	0	0%	
		11	5,499	5,000	0	0%	
		Total:			30	100%	

Comment:
 NONE.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S17045A
Survey Unit Name: Condensate Demineralizer Building
Exterior Walls and Roof

Classification: Class 3
Size (m²): 1,340

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 1,107

Scan Coverage (%): 3
Investigation Level: 21,000
Maximum Value: 3,641

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 3

Number of Measurements: 30
Investigation Level: 2,100
Maximum Value: 16

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

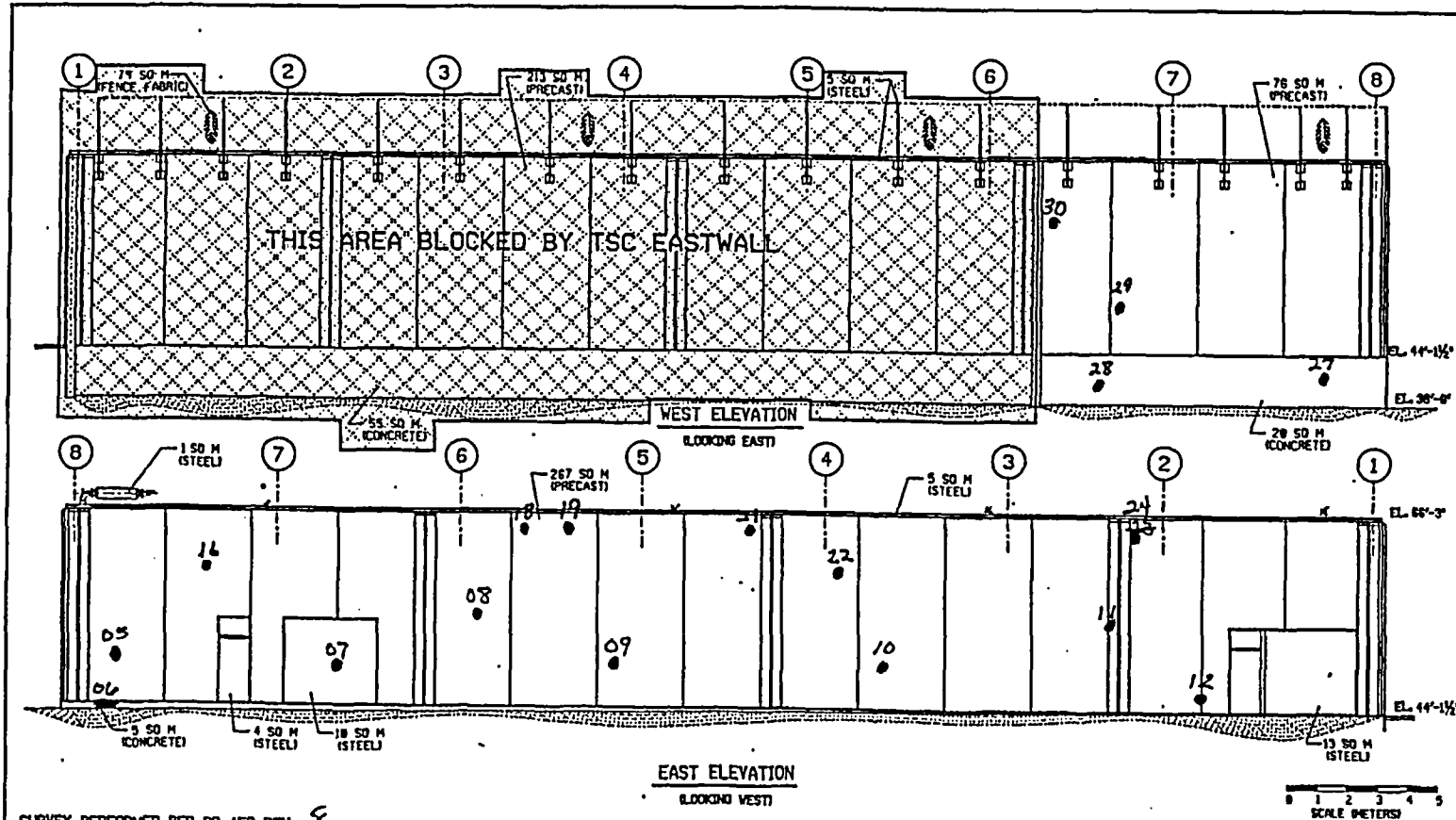
Survey Unit ID Code: S17045A

Survey Unit Name: Condensate Demineralizer Building Exterior Walls and Roof

Classification: Class 3

Size (m²): 1,340

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 8

SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1 <i>[Signature]</i>	<i>[Print Name]</i>	<i>[Signature]</i>	9-2-2003
TECHNICIAN 2 <i>[Signature]</i>	<i>[Print Name]</i>	<i>[Signature]</i>	9-2-2003

TROJAN FINAL SURVEY			
MAP NO.	S17045A1	REVISION NO.	08
PREPARED BY	R. C. RAYMOND	REVISION DATE	03-17-03
CHECKED BY		DWG REFERENCE	A-93
AREA/COMPONENT DESCRIPTION	CONDENSATE DEMINERALIZER BUILDING EAST & WEST EXTERIOR WALLS		

FILE LOCATION: \\P:\G\17045A\CONDENSATE\DWG\17045A1.DWG

FINAL SURVEY RESULTS SUMMARY

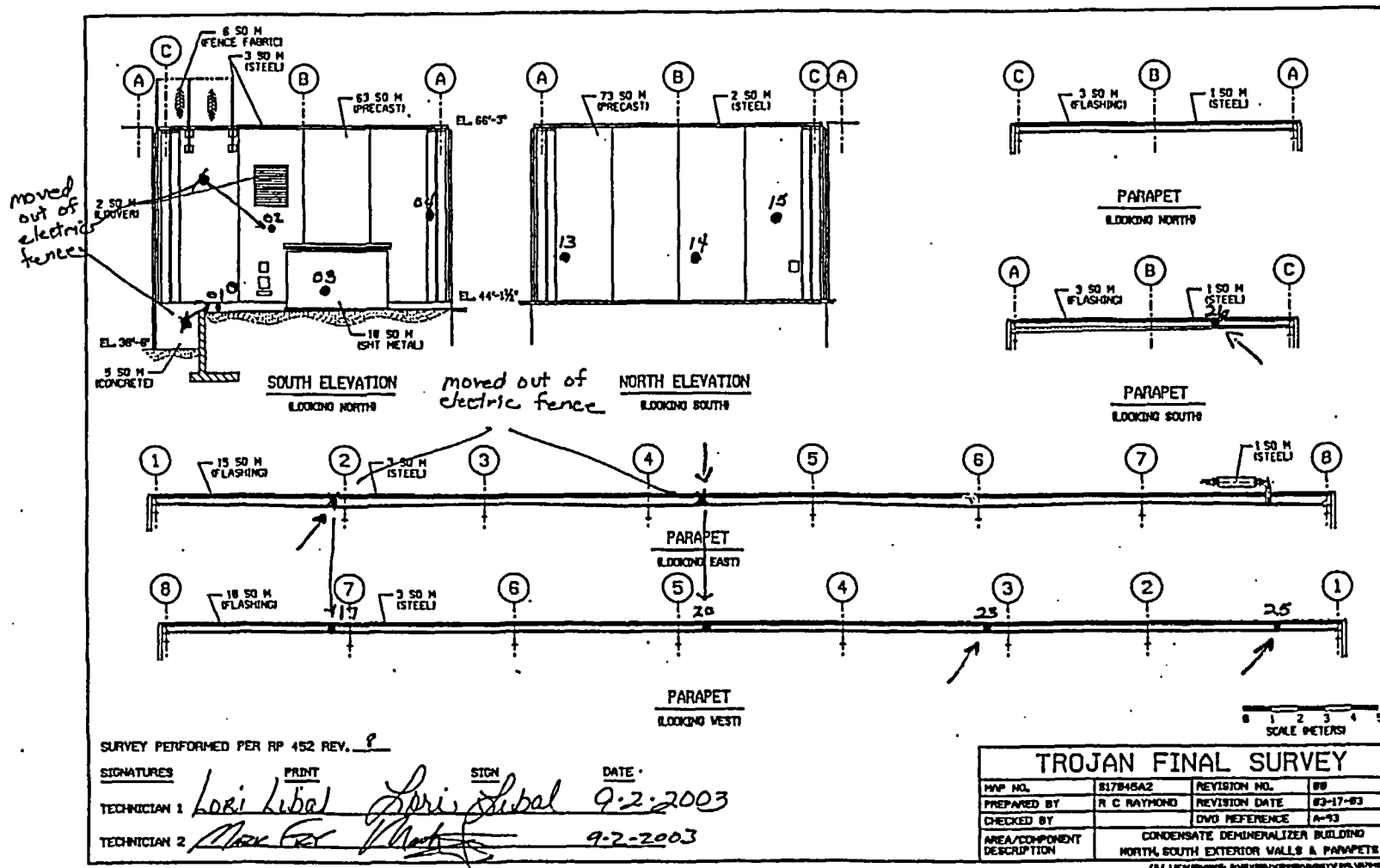
Survey Unit ID Code: S17045A

Survey Unit Name: Condensate Demineralizer Building Exterior Walls and Roof

Classification: Class 3

Size (m²): 1,340

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S21023A
 Survey Unit Name: Intake Structure Exterior

Classification: Class 3
 Size (m²): 955

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	34	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 6.770e+002
 Maximum Value : 1.783e+003
 Range : 1.106e+003
 Median : 1.320e+003
 Std. Deviation : 2.087e+002
 Mean : 1.341e+003
 95% UCL : 1.402e+003

Measurement Values

Location	Value	Location	Value
000001	1.335e+003	000018	1.324e+003
000002	1.301e+003	000019	1.136e+003
000003	1.305e+003	000020	1.136e+003
000004	6.770e+002	000021	1.249e+003
000005	1.286e+003	000022	1.595e+003
000006	1.783e+003	000023	1.038e+003
000007	1.670e+003	000024	1.565e+003
000008	1.347e+003	000025	1.373e+003
000009	1.388e+003	000026	1.591e+003
000010	1.076e+003	000027	1.474e+003
000011	1.309e+003	000028	1.497e+003
000012	1.140e+003	000029	1.606e+003
000013	1.512e+003	000030	1.245e+003
000014	1.234e+003	000031	1.230e+003
000015	1.388e+003	000032	1.264e+003
000016	1.444e+003	000033	1.313e+003
000017	1.316e+003	000034	1.463e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S21023A
 Survey Unit Name: Intake Structure Exterior

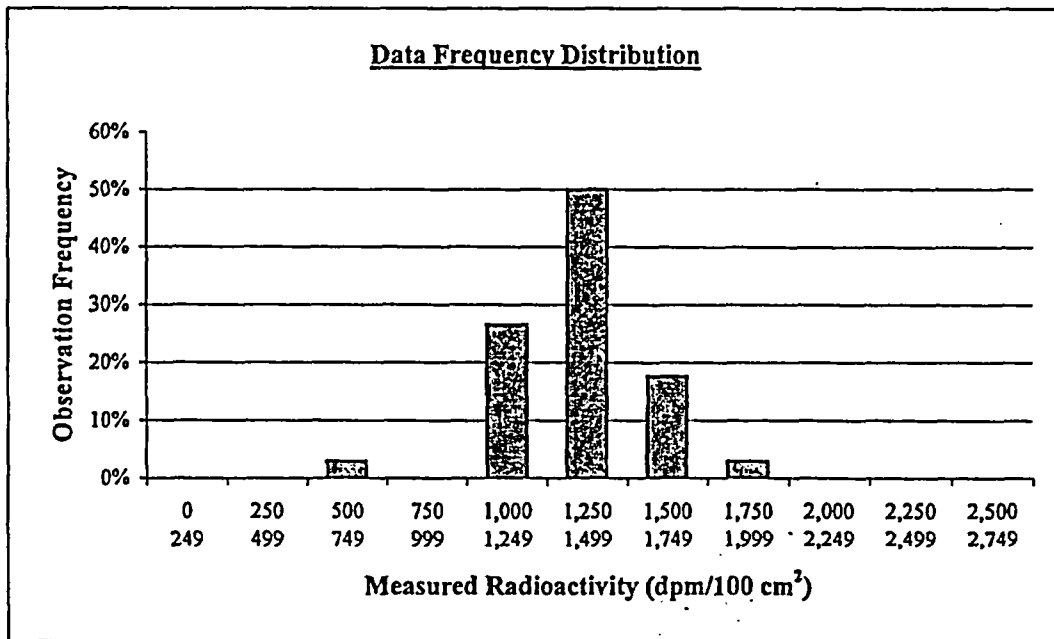
Classification: Class 3
 Size (m²): 955

Measurement Data Statistical Evaluation

Statistical Comparisons			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	1,106	1,043	See comment below
Median	0.103	0.500	Pass
Mean	1,341	10,500	Pass
Std Dev	209	4,200	Pass

All data less than DCGL; Sign statistical test not required.

Statistical Quantities	
Range:	1,106
Median:	1,320
Mean:	1,341
Std Dev:	209
Minimum:	677
Maximum:	1,783
DCGL:	21,000



Plot Parameters	
# of measurements:	34
# of intervals:	11
Interval increment:	250
Minimum:	0
Maximum:	2,749

Interval	High End	Low End	Number of Observations	Observation Frequency
1	249	0	0	0%
2	499	250	0	0%
3	749	500	1	3%
4	999	750	0	0%
5	1,249	1,000	9	26%
6	1,499	1,250	17	50%
7	1,749	1,500	6	18%
8	1,999	1,750	1	3%
9	2,249	2,000	0	0%
10	2,499	2,250	0	0%
11	2,749	2,500	0	0%
Total:			34	100%

Comment:

Range failure is a test artifact due to a very small standard deviation, resulting in a range value that is slightly more than 5 times the standard deviation. All data values are valid and accepted for final survey release record.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S21023A
Survey Unit Name: Intake Structure Exterior

Classification: Class 3
Size (m²): 955

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 965

Scan Coverage (%): 5
Investigation Level: 21,000
Maximum Value: 2,178

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 2

Number of Measurements: 34
Investigation Level: 2,100
Maximum Value: 21

Discussion of Anomalous Measurement Data

Investigation Summary

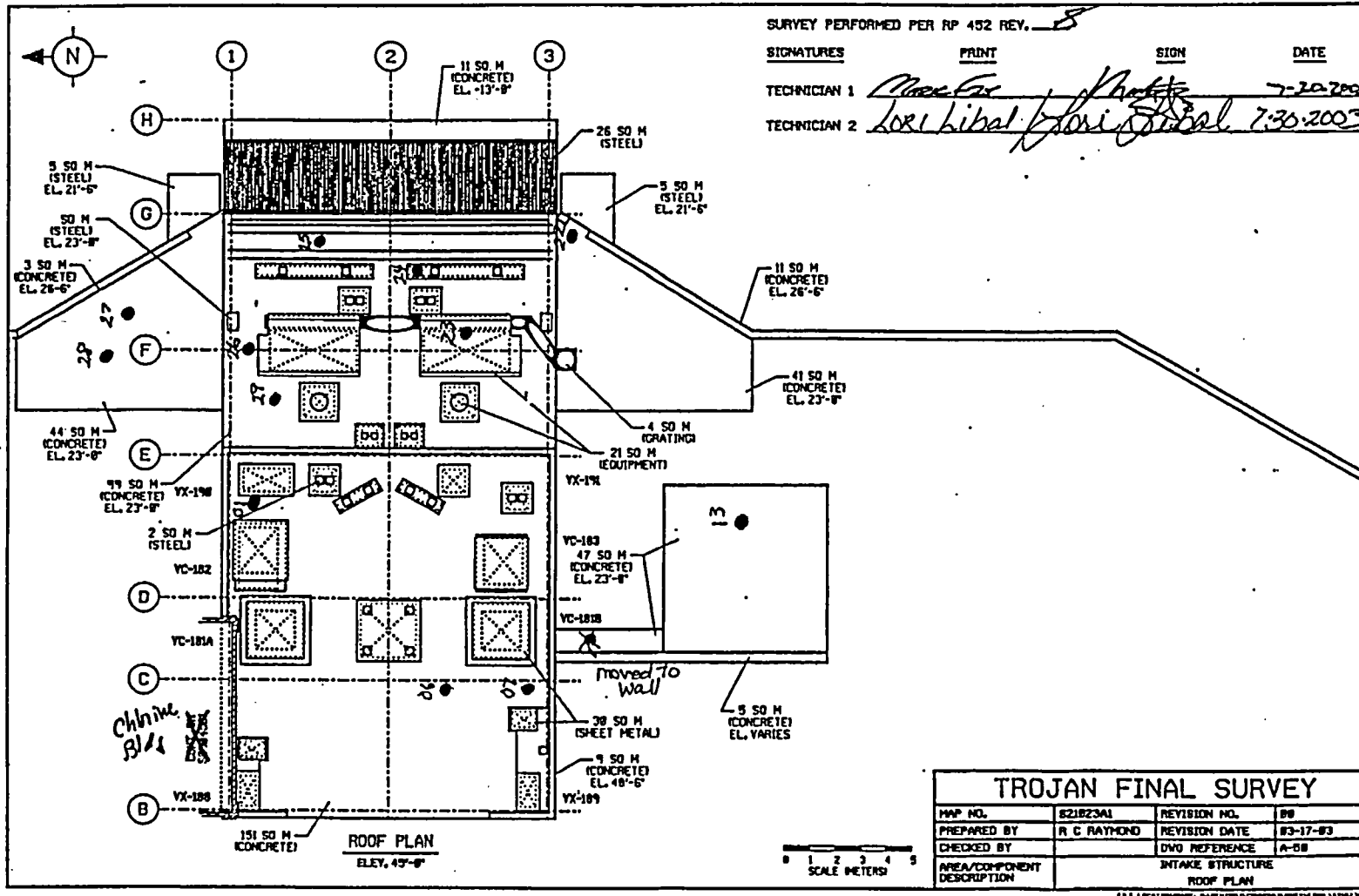
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S21023A
 Survey Unit Name: Intake Structure Exterior

Classification: Class 3
 Size (m²): 955

Static Measurement Locations Map

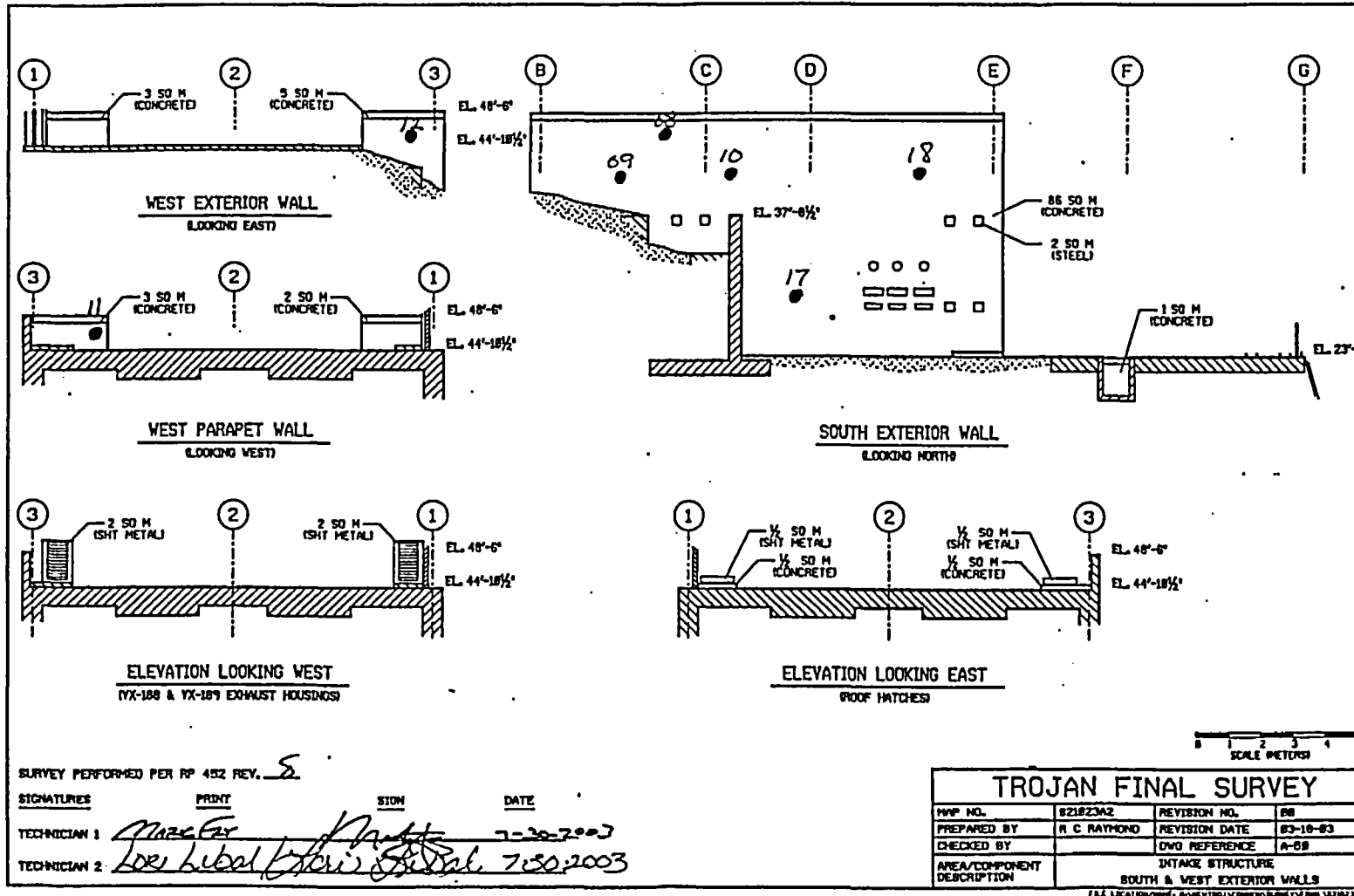


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S21023A
 Survey Unit Name: Intake Structure Exterior

Classification: Class 3
 Size (m²): 955

Static Measurement Locations Map

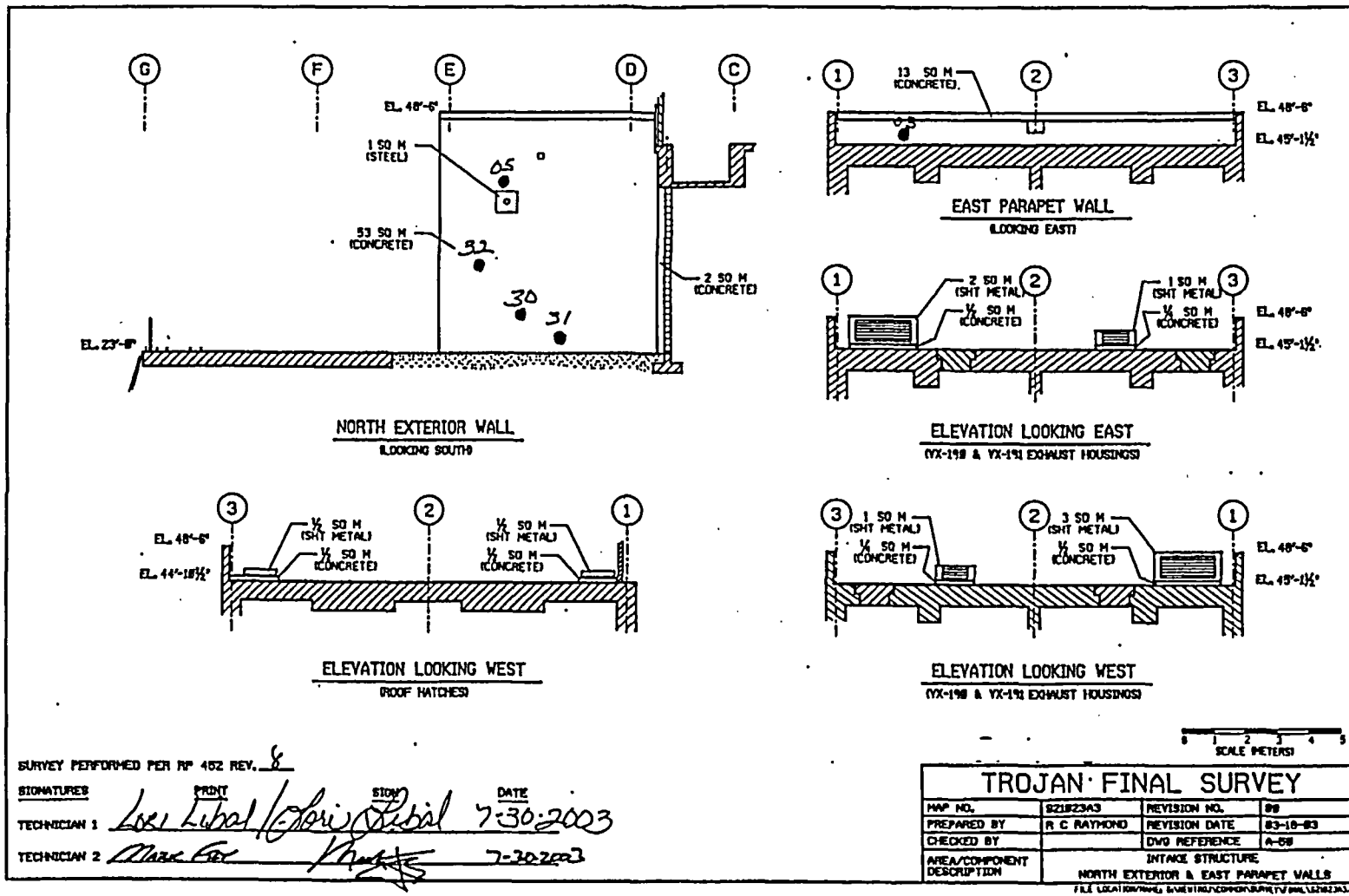


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S21023A
 Survey Unit Name: Intake Structure Exterior

Classification: Class 3
 Size (m²): 955

Static Measurement Locations Map

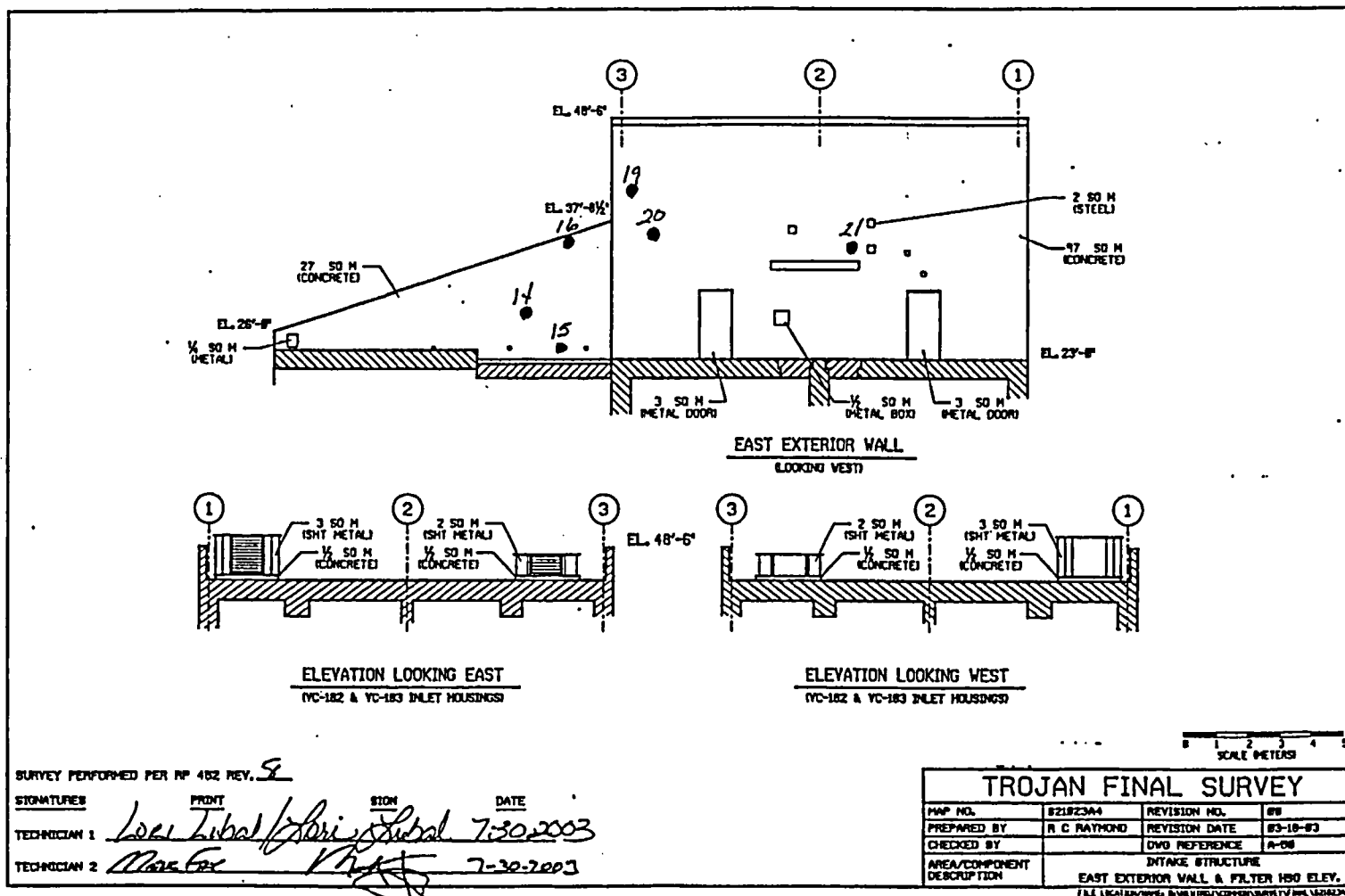


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S21023A
 Survey Unit Name: Intake Structure Exterior

Classification: Class 3
 Size (m²): 955

Static Measurement Locations Map

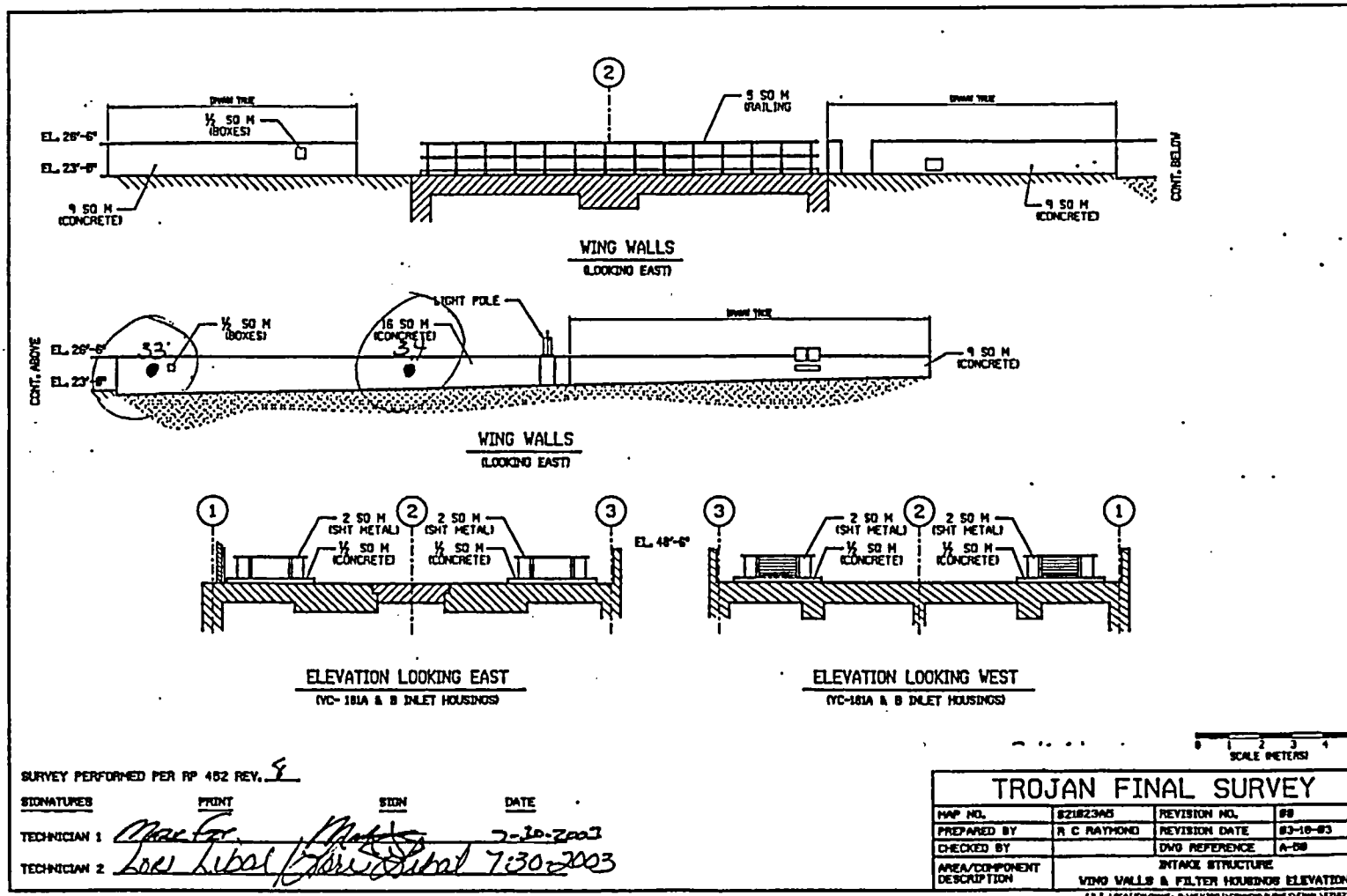


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S21023A
 Survey Unit Name: Intake Structure Exterior

Classification: Class 3
 Size (m²): 955

Static Measurement Locations Map

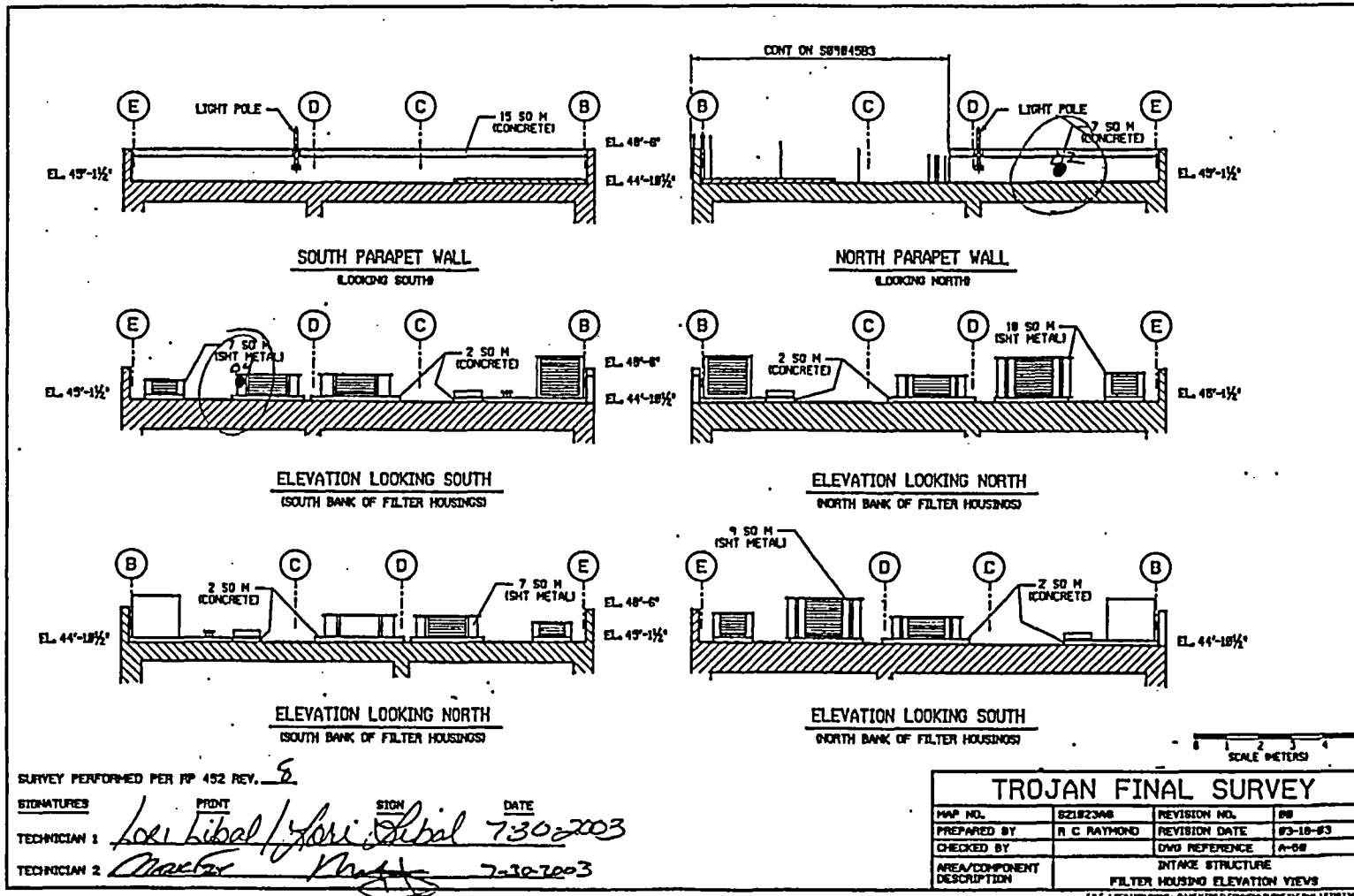


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S21023A
 Survey Unit Name: Intake Structure Exterior

Classification: Class 3
 Size (m²): 955

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S32045B
Survey Unit Name: Chlorine Building Exterior Walls,
 Roof, and Guard Tower

Classification: Class 3
Size (m²): 1,084

Data Quality Values

Type 1 Error : 5.000e-002 **Type 2 Error** : 5.000e-002
Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
Minimum Value : 6.685e+002
Maximum Value : 1.994e+003
Range : 1.326e+003
Median : 1.232e+003
Std. Deviation : 3.572e+002
Mean : 1.211e+003
95% UCL : 1.321e+003

Measurement Values

Location	Value	Location	Value
000001	7.976e+002	000018	7.741e+002
000002	1.165e+003	000019	1.337e+003
000003	1.204e+003	000020	1.400e+003
000004	1.286e+003	000021	1.239e+003
000005	1.314e+003	000022	1.099e+003
000006	1.235e+003	000023	7.350e+002
000007	1.212e+003	000024	1.462e+003
000008	1.982e+003	000025	1.134e+003
000009	1.963e+003	000026	1.247e+003
000010	1.994e+003	000027	7.272e+002
000011	8.367e+002	000028	6.685e+002
000012	8.718e+002	000029	8.523e+002
000013	1.361e+003	000030	1.337e+003
000014	1.548e+003		
000015	1.228e+003		
000016	1.392e+003		
000017	9.148e+002		

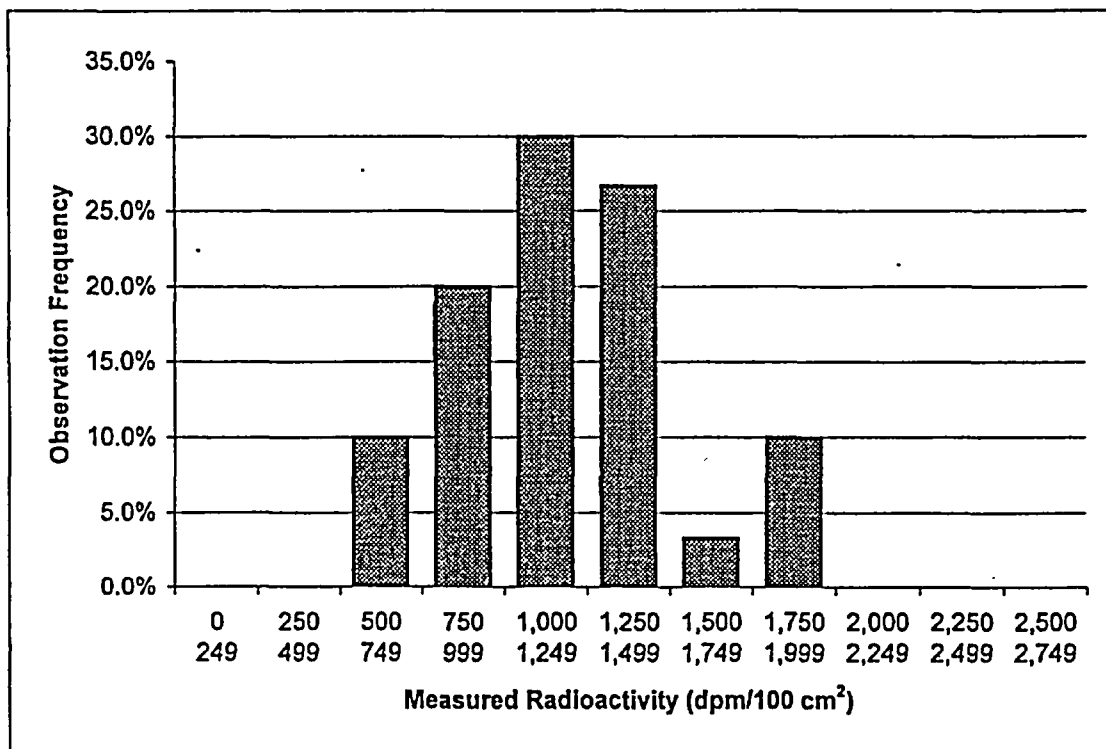
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S32045B
 Survey Unit Name: Chlorine Building Exterior Walls,
 Roof, and Guard Tower

Classification: Class 3
 Size (m²): 1,084

Measurement Data Statistical Evaluation

Statistical Quantities Tests				Statistical Quantities	
Test	Calculated Value	Acceptance Criteria	Acceptable?	Range:	1,325
Range	1,325	1,786	Pass	Median:	1,232
Median	0.059	0.500	Pass	Mean:	1,211
Mean	1,211	10,500	Pass	Std Dev:	357
Std Dev	357	4,200	Pass	Minimum:	669
				Maximum:	1,994
				DCGL:	21,000



Plot Parameters		Interval	High	Low	Number	Frequency
# of measurements:	30	1	249	0	0	0.0%
# of intervals:	11	2	499	250	0	0.0%
Interval increment:	250	3	749	500	3	10.0%
Minimum:	0	4	999	750	6	20.0%
Maximum:	2,749	5	1,249	1,000	9	30.0%
		6	1,499	1,250	8	26.7%
		7	1,749	1,500	1	3.3%
		8	1,999	1,750	3	10.0%
		9	2,249	2,000	0	0.0%
		10	2,499	2,250	0	0.0%
		11	2,749	2,500	0	0.0%
		Total:			30	100%

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S32045B
Survey Unit Name: Chlorine Building Exterior Walls,
Roof, and Guard Tower

Classification: Class 3
Size (m²): 1,084

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 877

Scan Coverage (%): 2
Investigation Level: 21,000
Maximum Value: 1,933

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 3

Number of Measurements: 30
Investigation Level: 2,100
Maximum Value: 26

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

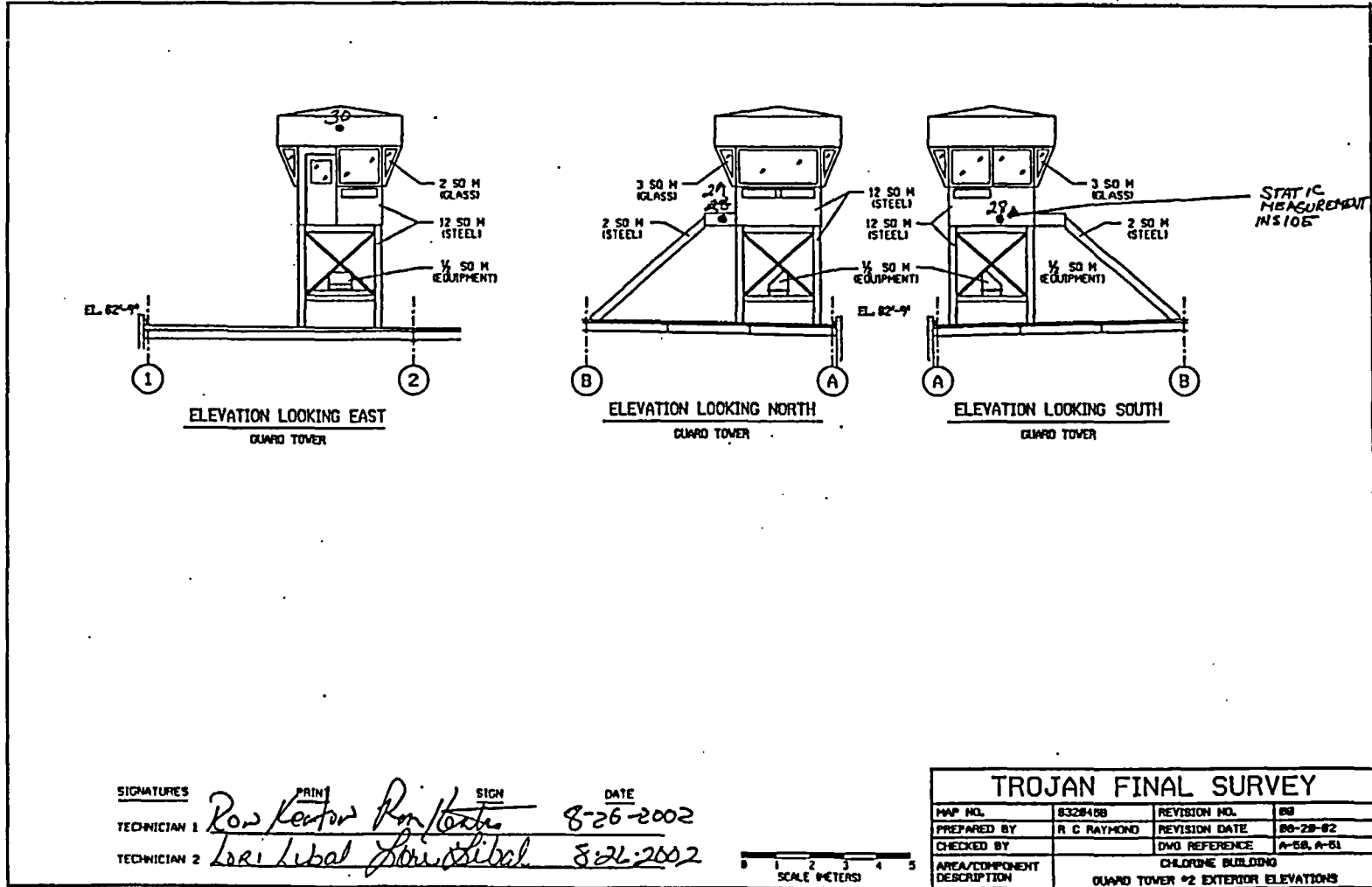
Survey Unit ID Code: S32045B

Survey Unit Name: Chlorine Building Exterior Walls, Roof, and Guard Tower

Classification: Class 3

Size (m²): 1,084

Static Measurement Locations Map

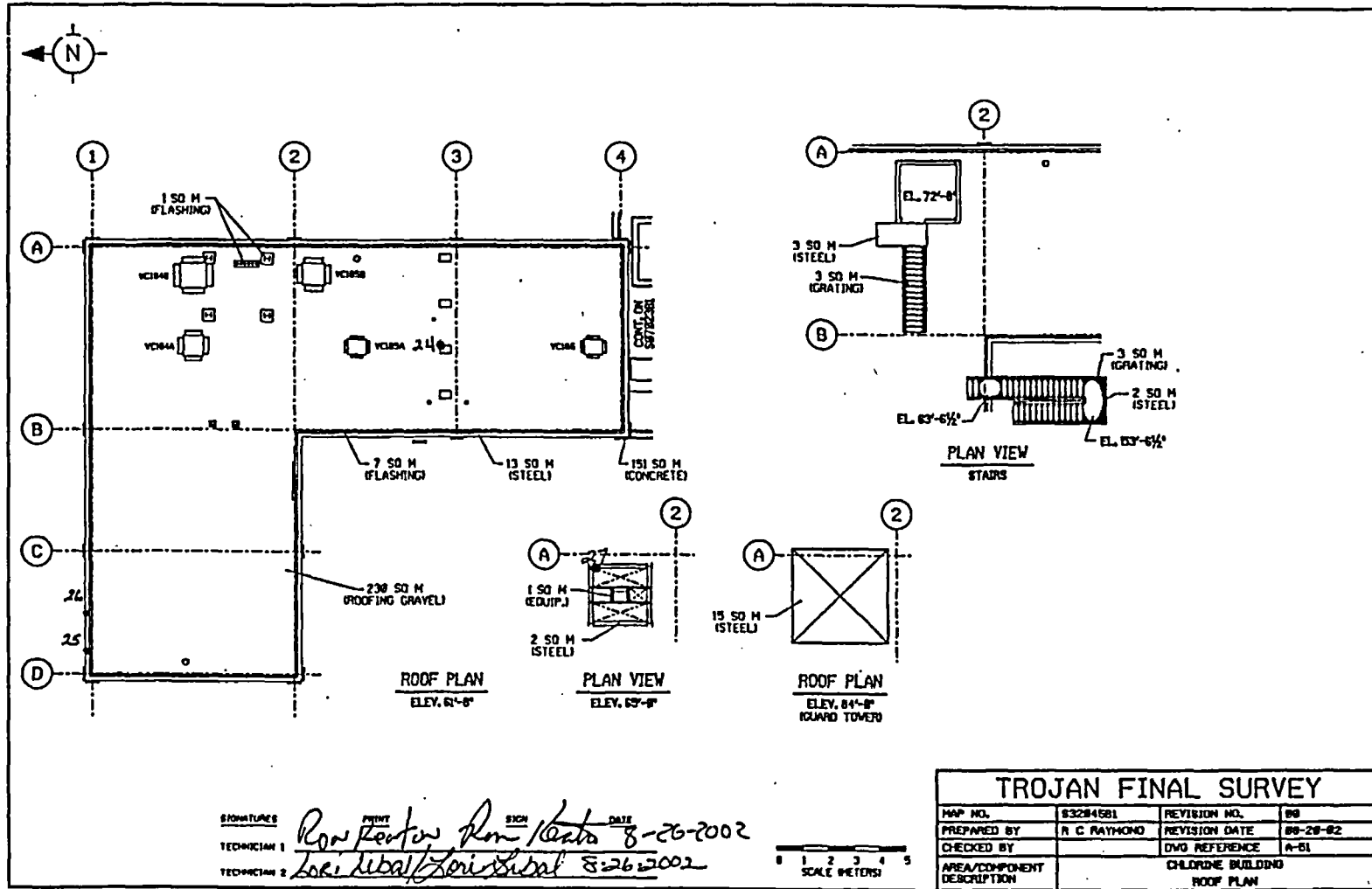


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S32045B
 Survey Unit Name: Chlorine Building Exterior Walls, Roof, and Guard Tower

Classification: Class 3
 Size (m²): 1,084

Static Measurement Locations Map



TECHNICIAN 1: *Ron Kenton* PRINT SIGNATURE DATE: *8-26-2002*
 TECHNICIAN 2: *Loe Libal* SIGNATURE DATE: *8-26-2002*

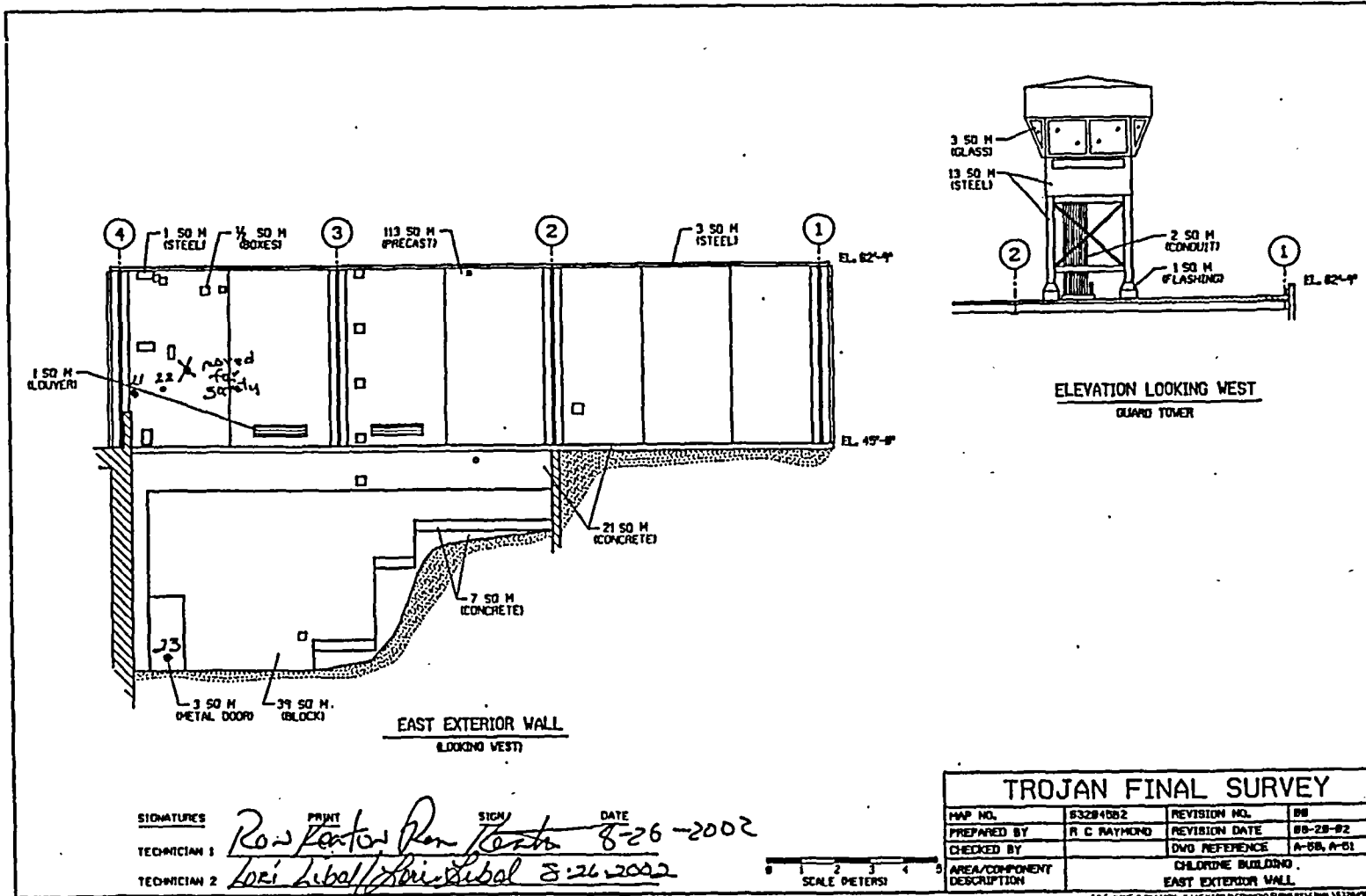
TROJAN FINAL SURVEY			
MAP NO.	S32045B1	REVISION NO.	00
PREPARED BY	R C RAYMOND	REVISION DATE	08-28-02
CHECKED BY		DWG REFERENCE	A-61
AREA/COMPONENT DESCRIPTION	CHLORINE BUILDING ROOF PLAN		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S32045B
 Survey Unit Name: Chlorine Building Exterior Walls, Roof, and Guard Tower

Classification: Class 3
 Size (m²): 1,084

Static Measurement Locations Map

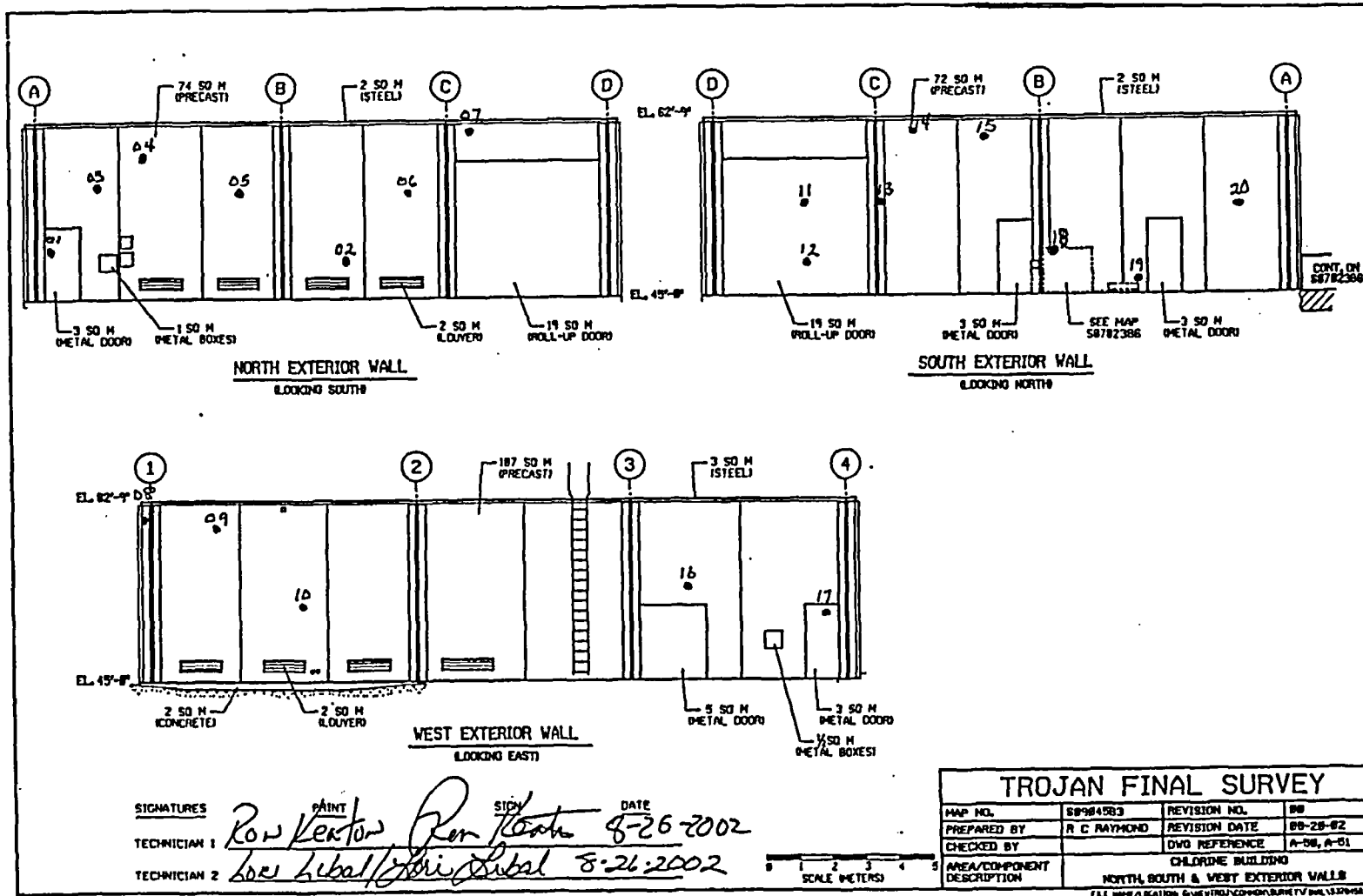


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S32045B
 Survey Unit Name: Chlorine Building Exterior Walls, Roof, and Guard Tower

Classification: Class 3
 Size (m²): 1,084

Static Measurement Locations Map



SIGNATURES
 PAINT SIGN DATE
 TECHNICIAN 1 *Row Kerton Ron Kerton* 8-26-2002
 TECHNICIAN 2 *Lois Libal/John Libal* 8-26-2002

TROJAN FINAL SURVEY			
MAP NO.	S09845B3	REVISION NO.	00
PREPARED BY	R C RAYMOND	REVISION DATE	80-28-82
CHECKED BY		DWG REFERENCE	A-08, A-01
AREA/COMPONENT DESCRIPTION	CHLORINE BUILDING NORTH, SOUTH & WEST EXTERIOR WALLS		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S33045A Classification: Class 3
 Survey Unit Name: Guardhouse Exterior Walls, Roof, and Stairs Size (m²): 540

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 7.175e+002
 Maximum Value : 1.599e+003
 Range : 8.815e+002
 Median : 1.120e+003
 Std. Deviation : 2.037e+002
 Mean : 1.130e+003
 95% UCL : 1.193e+003

Measurement Values

Location	Value	Location	Value
000001	1.150e+003	000018	9.540e+002
000002	1.259e+003	000019	1.070e+003
000003	1.066e+003	000020	1.142e+003
000004	1.050e+003	000021	1.070e+003
000005	1.110e+003	000022	9.179e+002
000006	1.331e+003	000023	1.106e+003
000007	7.175e+002	000024	7.335e+002
000008	1.467e+003	000025	1.010e+003
000009	1.211e+003	000026	1.363e+003
000010	7.977e+002	000027	1.479e+003
000011	1.126e+003	000028	1.599e+003
000012	1.122e+003	000029	1.201e+003
000013	1.038e+003	000030	1.273e+003
000014	1.186e+003		
000015	9.620e+002		
000016	1.259e+003		
000017	1.118e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S33045A

Classification: Class 3

Survey Unit Name: Guardhouse Exterior Walls, Roof, and Stairs

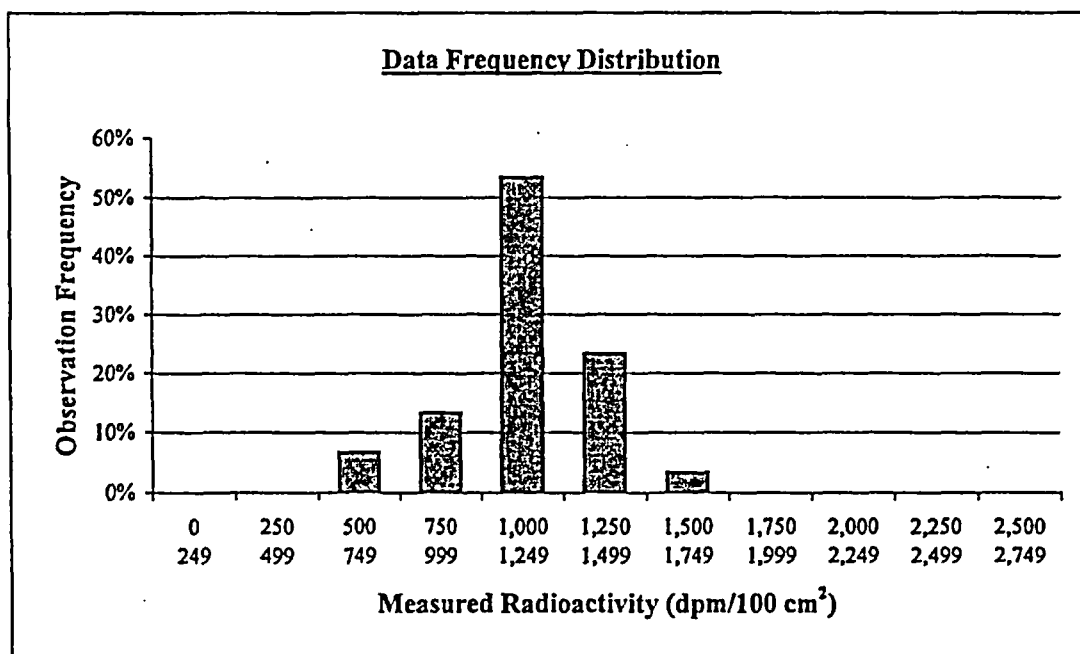
Size (m²): 540

Measurement Data Statistical Evaluation

Statistical Comparisons			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	881	1,018	Pass
Median	0.047	0.500	Pass
Mean	1,130	10,500	Pass
Std Dev	204	4,200	Pass

All data less than DCGL; Sign statistical test not required.

Statistical Quantities	
Range:	881
Median:	1,120
Mean:	1,130
Std Dev:	204
Minimum:	718
Maximum:	1,599
DCGL:	21,000



Plot Parameters	
# of measurements:	30
# of intervals:	11
Interval increment:	250
Minimum:	0
Maximum:	2,749

Comment:
NONE

Interval	High End	Low End	Number of Observations	Observation Frequency
1	249	0	0	0%
2	499	250	0	0%
3	749	500	2	7%
4	999	750	4	13%
5	1,249	1,000	16	53%
6	1,499	1,250	7	23%
7	1,749	1,500	1	3%
8	1,999	1,750	0	0%
9	2,249	2,000	0	0%
10	2,499	2,250	0	0%
11	2,749	2,500	0	0%
Total:			30	100%

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S33045A

Classification: Class 3

Survey Unit Name: Guardhouse Exterior Walls, Roof, and Stairs

Size (m²): 540

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 5

Measurement Units: dpm/100cm²

Investigation Level: 21,000

Minimum Value: 829

Maximum Value: 1,797

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 2,100

Minimum Value: 3

Maximum Value: 20

Discussion of Anomalous Measurement Data

Investigation Summary

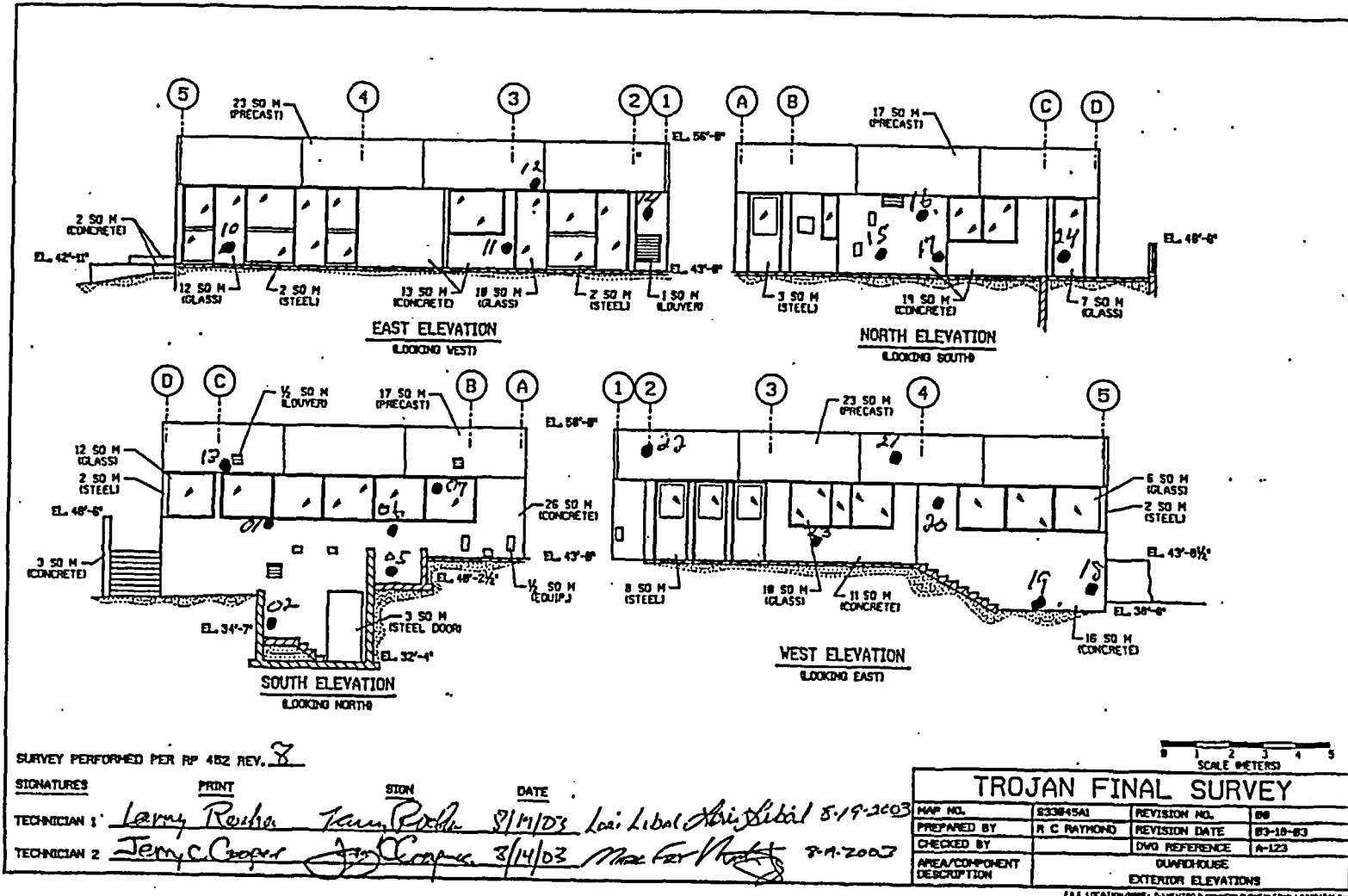
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S33045A
 Survey Unit Name: Guardhouse Exterior Walls, Roof, and Stairs

Classification: Class 3
 Size (m²): 540

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

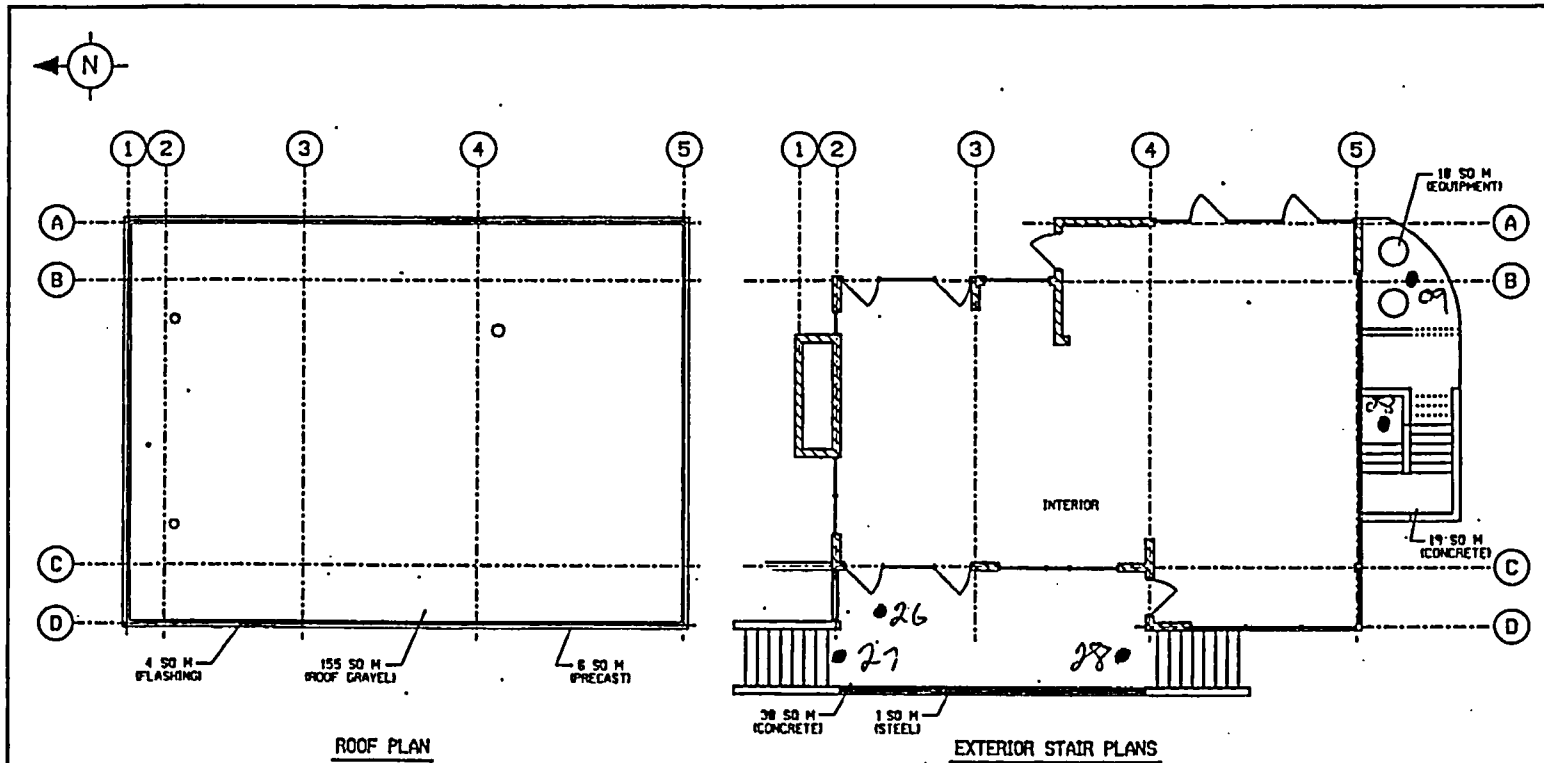
Survey Unit ID Code: S33045A

Survey Unit Name: Guardhouse Exterior Walls, Roof, and Stairs

Classification: Class 3

Size (m²): 540

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 3

SIGNATURES	PRINT	SION	DATE
<i>Larry Rocha</i>	Larry Rocha		8/14/03
<i>Jerry Cooper</i>	Jerry Cooper		8/14/03

Loei Kibal *8-19-2003*
Mazfer Mubtas *8-19-2003*

TROJAN FINAL SURVEY		
MAP NO.	S33045A2	REVISION NO.
PREPARED BY	R C RAYMOND	REVISION DATE
CHECKED BY		DWG REFERENCE
AREA/COMPONENT DESCRIPTION	GUARDHOUSE ROOF & EXTERIOR STAIR PLANS	

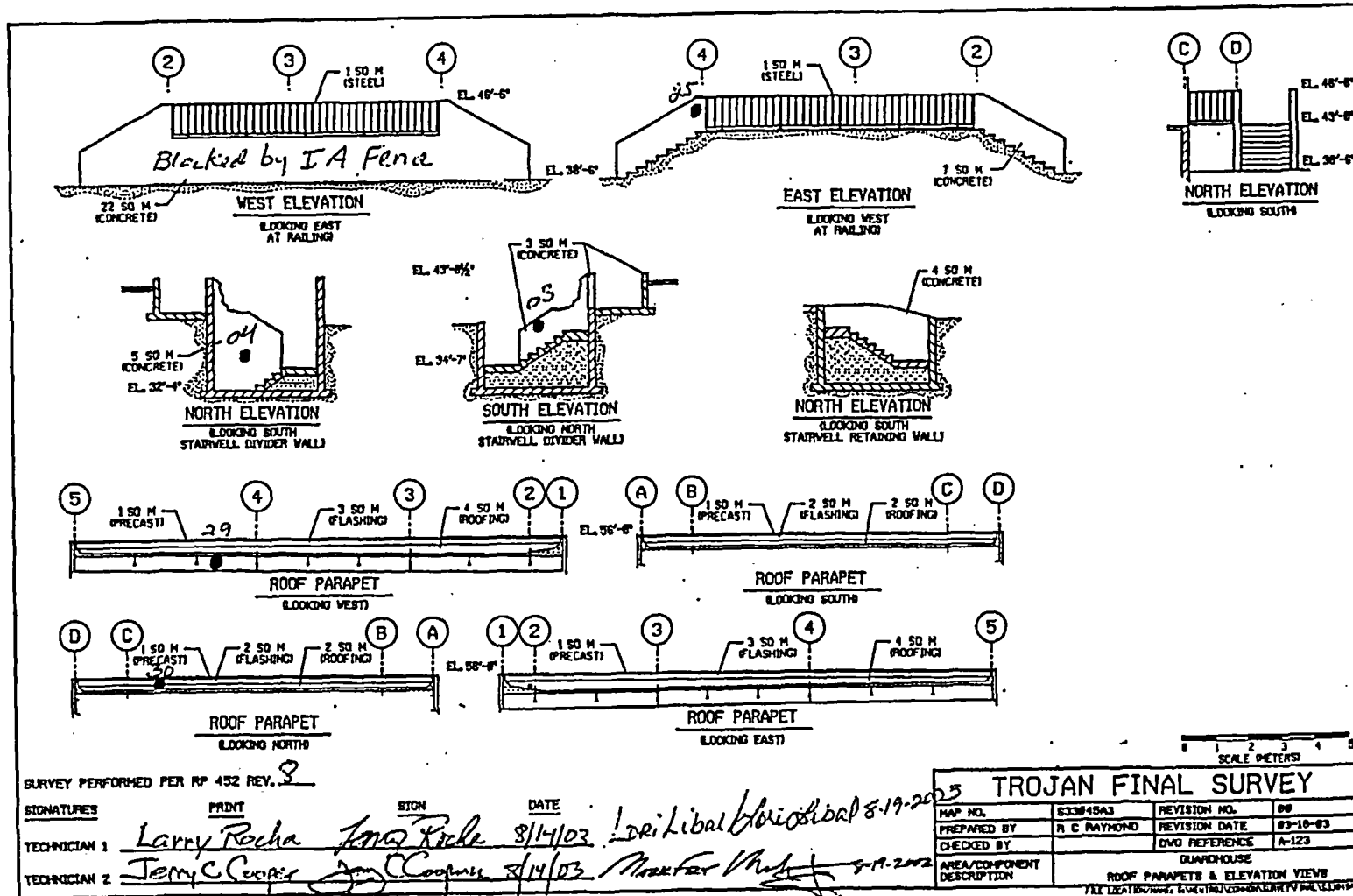
FILE LOCAL DRIVE\B\B\VE\TROJAN\CONSTR\SURVEY\DWG\33045A2.DWG

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S33045A
 Survey Unit Name: Guardhouse Exterior Walls, Roof, and Stairs

Classification: Class 3
 Size (m²): 540

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S34045A
Survey Unit Name: Technical Support Center Exterior Walls,
 Stairwells, and Roof

Classification: Class 3
Size (m²): 1,700

Data Quality Values

Type 1 Error : 5.000e-002 **Type 2 Error** : 5.000e-002
Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	36	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
Minimum Value : 9.114e+002
Maximum Value : 1.855e+003
Range : 9.436e+002
Median : 1.084e+003
Std. Deviation : 2.319e+002
Mean : 1.144e+003
95% UCL : 1.209e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	1.075e+003	000018	9.304e+002	000035	1.409e+003
000002	1.090e+003	000019	1.082e+003	000036	1.762e+003
000003	1.189e+003	000020	1.268e+003		
000004	1.132e+003	000021	9.911e+002		
000005	1.094e+003	000022	1.037e+003		
000006	1.132e+003	000023	9.342e+002		
000007	9.607e+002	000024	1.568e+003		
000008	9.797e+002	000025	1.006e+003		
000009	1.052e+003	000026	1.052e+003		
000010	1.018e+003	000027	1.063e+003		
000011	1.139e+003	000028	1.003e+003		
000012	1.128e+003	000029	1.124e+003		
000013	9.569e+002	000030	1.086e+003		
000014	9.114e+002	000031	1.129e+003		
000015	1.147e+003	000032	1.202e+003		
000016	9.911e+002	000033	1.698e+003		
000017	9.949e+002	000034	1.855e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S34045A
Survey Unit Name: Technical Support Center Exterior Walls,
 Stairwells, and Roof

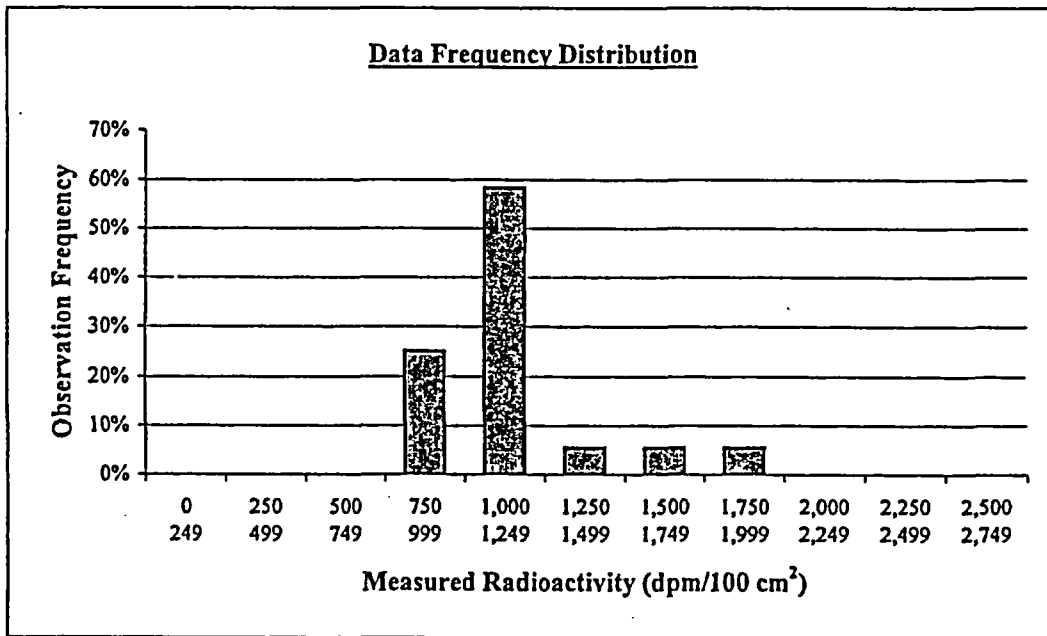
Classification: Class 3
Size (m²): 1,700

Measurement Data Statistical Evaluation

Statistical Comparisons			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	944	1,159	Pass
Median	0.259	0.500	Pass
Mean	1,144	10,500	Pass
Std Dev	232	4,200	Pass

Statistical Quantities	
Range:	944
Median:	1,084
Mean:	1,144
Std Dev:	232
Minimum:	911
Maximum:	1,855
DCGL:	21,000

All data less than DCGL; Sign statistical test not required.



Plot Parameters	
# of measurements:	36
# of intervals:	11
Interval increment:	250
Minimum:	0
Maximum:	2,749

Interval	High End	Low End	Number of Observations	Observation Frequency
1	249	0	0	0%
2	499	250	0	0%
3	749	500	0	0%
4	999	750	9	25%
5	1,249	1,000	21	58%
6	1,499	1,250	2	6%
7	1,749	1,500	2	6%
8	1,999	1,750	2	6%
9	2,249	2,000	0	0%
10	2,499	2,250	0	0%
11	2,749	2,500	0	0%
Total:			36	100%

Comment:
 NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S34045A

Classification: Class 3

Survey Unit Name: Technical Support Center Exterior Walls,
Stairwells, and Roof

Size (m²): 1,700

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 2

Measurement Units: dpm/100cm²

Investigation Level: 21,000

Minimum Value: 1,065

Maximum Value: 1,493

Measurement Type: Removable Beta

Number of Measurements: 36

Measurement Units: dpm/100cm²

Investigation Level: 2,100

Minimum Value: 3

Maximum Value: 29

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

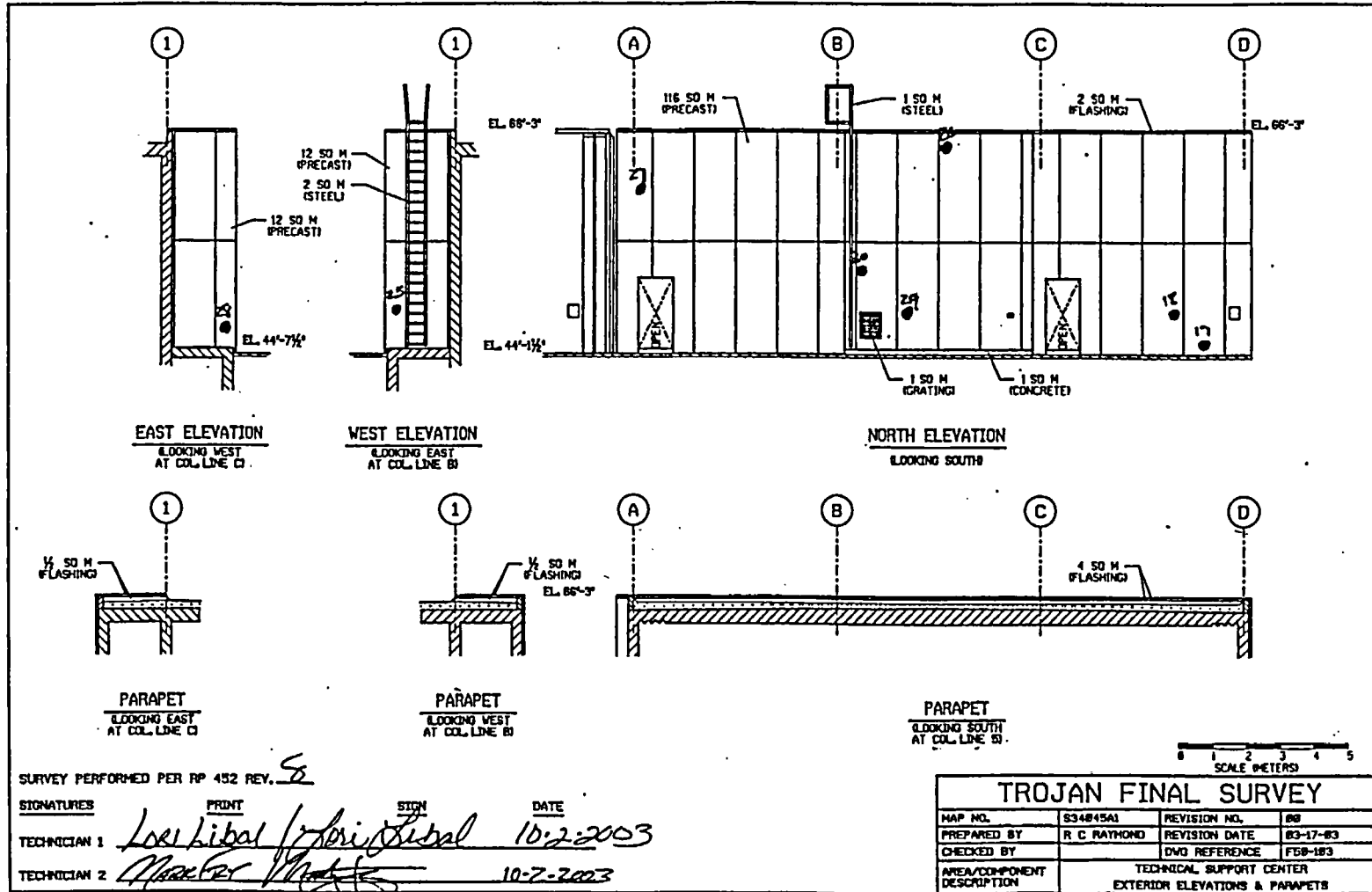
Survey Unit ID Code: S34045A

Survey Unit Name: Technical Support Center Exterior Walls, Stairwells, and Roof

Classification: Class 3

Size (m²): 1,700

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

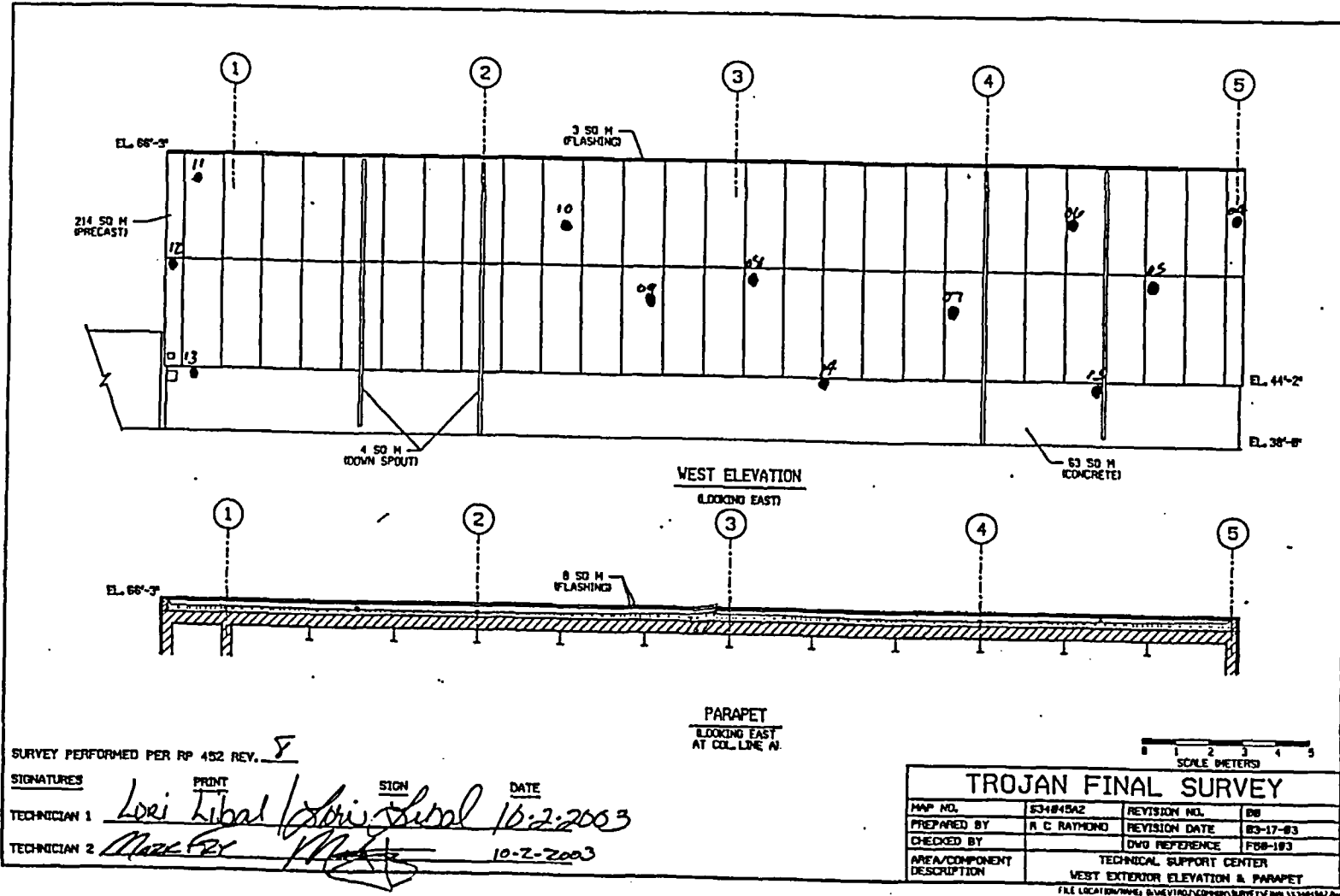
Survey Unit ID Code: S34045A

Survey Unit Name: Technical Support Center Exterior Walls, Stairwells, and Roof

Classification: Class 3

Size (m²): 1,700

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

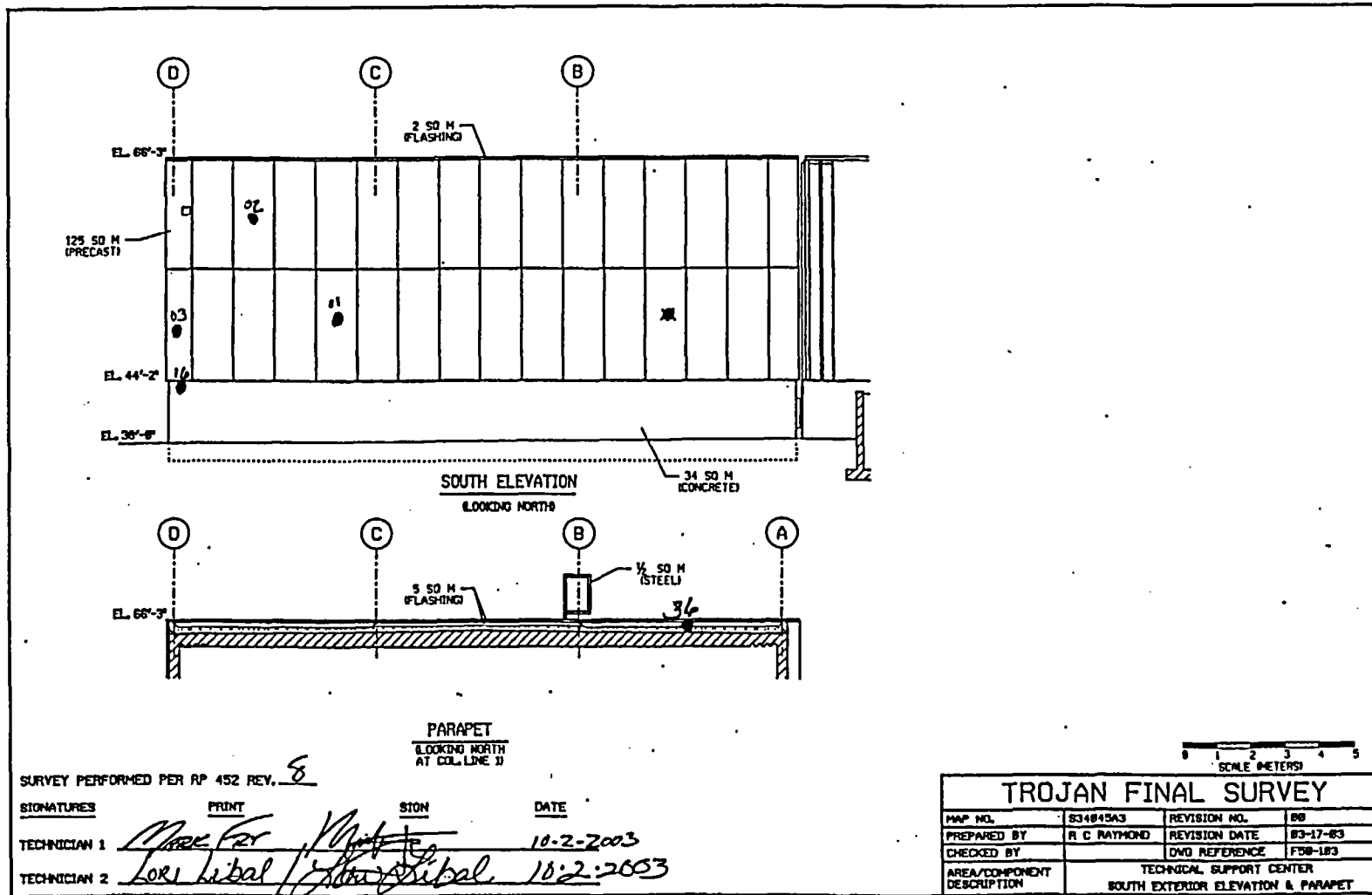
Survey Unit ID Code: S34045A

Survey Unit Name: Technical Support Center Exterior Walls, Stairwells, and Roof

Classification: Class 3

Size (m²): 1,700

Static Measurement Locations Map

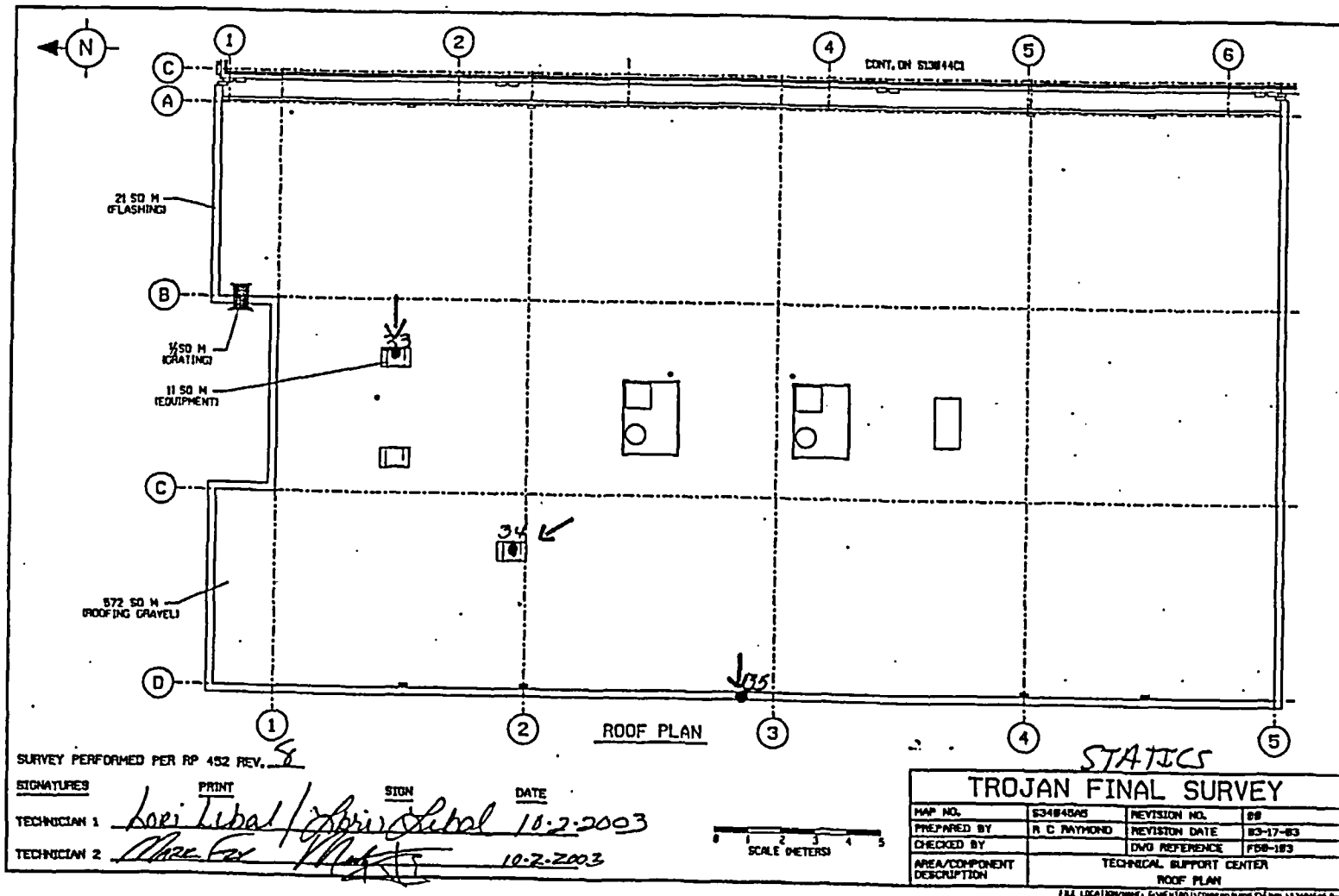


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S34045A
 Survey Unit Name: Technical Support Center Exterior Walls, Stairwells, and Roof

Classification: Class 3
 Size (m²): 1,700

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 5

SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	<i>Loei Tebal / Abri Tebal</i>		10-2-2003
TECHNICIAN 2	<i>Abri Tebal / Loei Tebal</i>		10-2-2003



TROJAN FINAL SURVEY			
MAP NO.	S34045A	REVISION NO.	00
PREPARED BY	R. C. RAYMOND	REVISION DATE	03-17-03
CHECKED BY		DWG REFERENCE	F80-183
AREA/COMPONENT DESCRIPTION	TECHNICAL SUPPORT CENTER ROOF PLAN		

FILE LOCATION: \\G:\EVE\183\COMP\SURVEY\TJ\134045A.DWG

FINAL SURVEY RESULTS SUMMARY

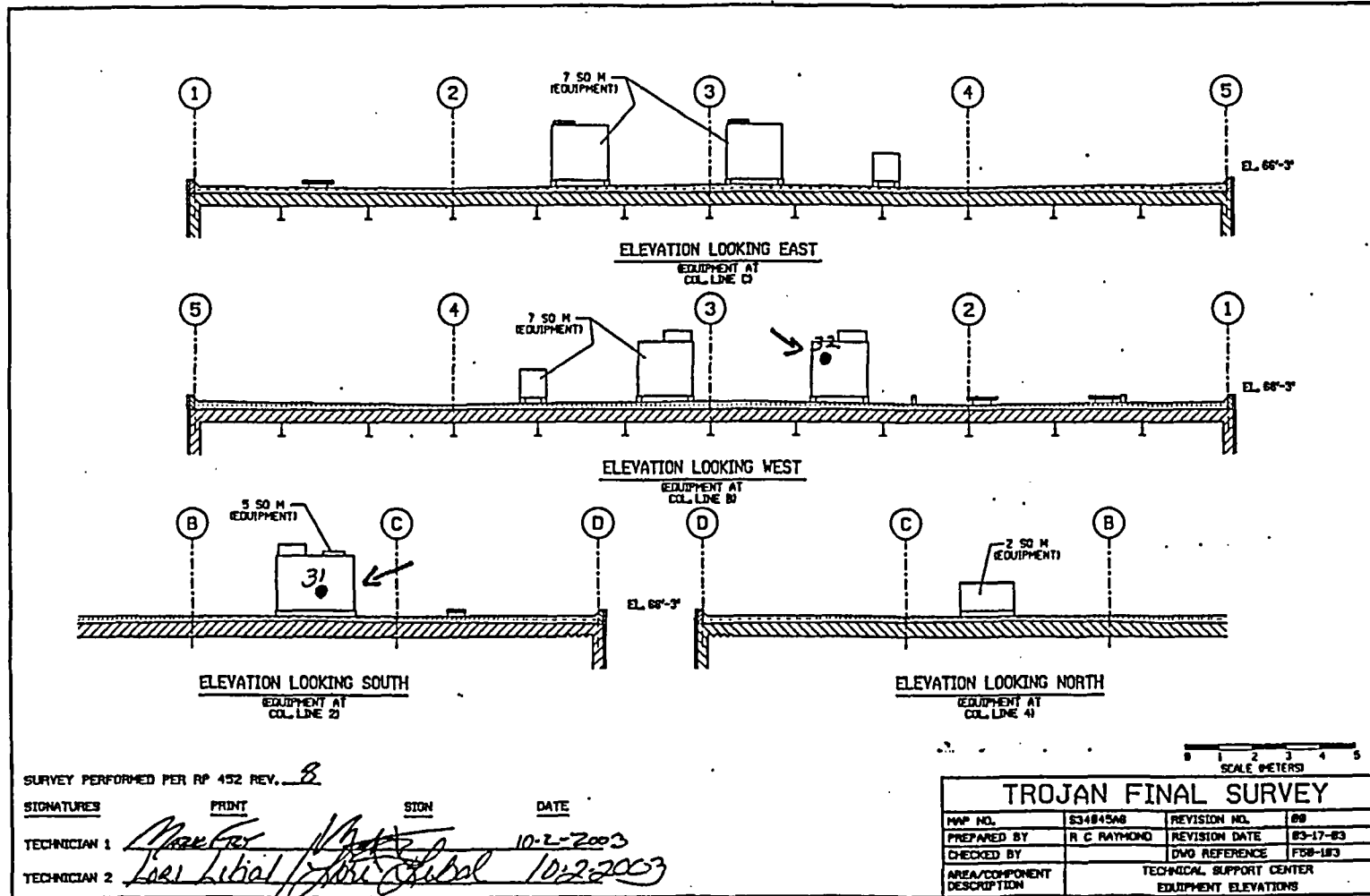
Survey Unit ID Code: S34045A

Survey Unit Name: Technical Support Center Exterior Walls, Stairwells, and Roof

Classification: Class 3

Size (m²): 1,700

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

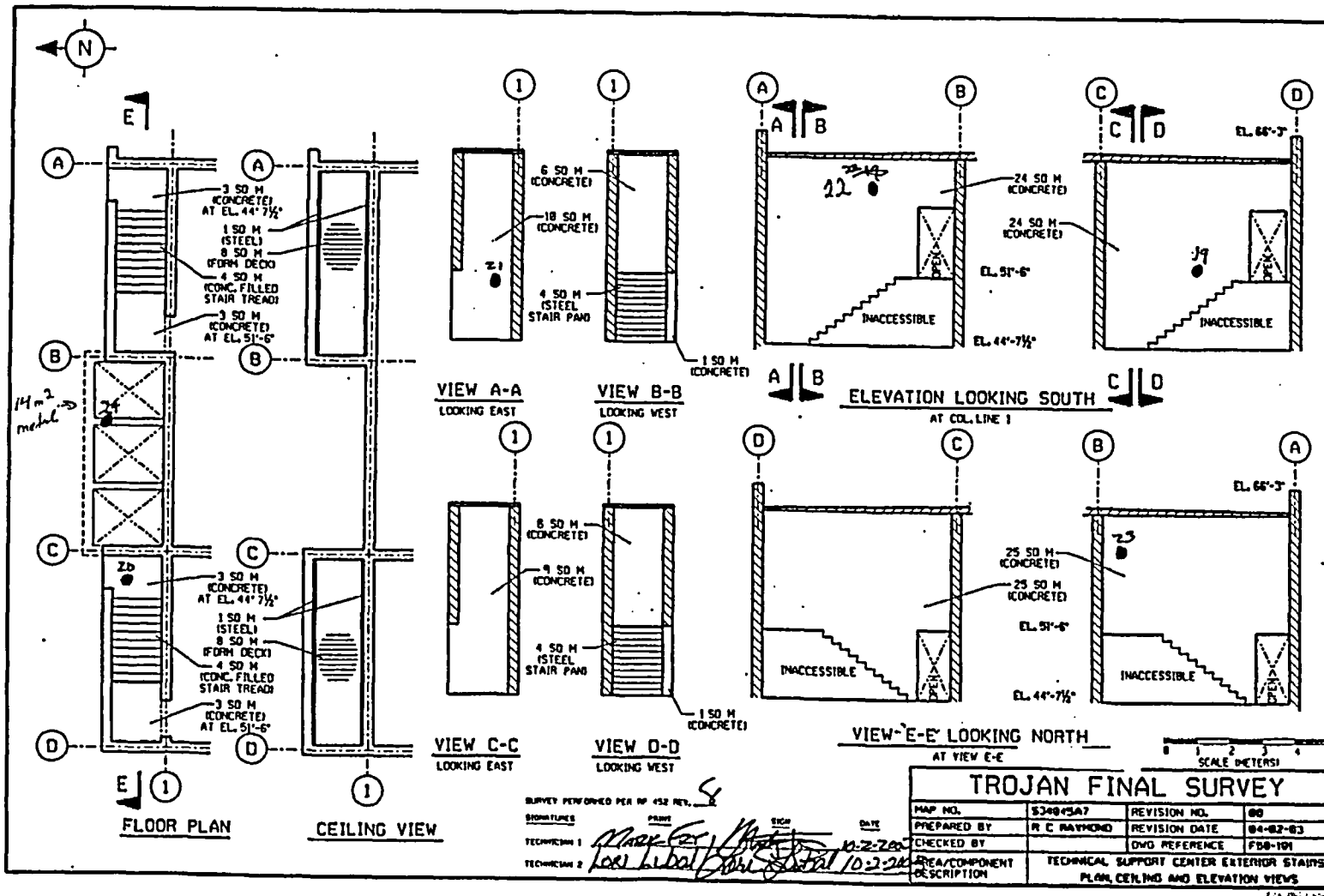
Survey Unit ID Code: S34045A

Survey Unit Name: Technical Support Center Exterior Walls, Stairwells, and Roof

Classification: Class 3

Size (m²): 1,700

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S35045A

Classification: Class 3

Survey Unit Name: Security Building Exterior Walls and Roof

Size (m²): 708

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 6.849e+002
 Maximum Value : 1.180e+003
 Range : 4.951e+002
 Median : 8.259e+002
 Std. Deviation : 1.022e+002
 Mean : 8.528e+002
 95% UCL : 8.845e+002

Measurement Values

Location	Value	Location	Value
000001	7.775e+002	000018	9.991e+002
000002	8.903e+002	000019	7.937e+002
000003	8.944e+002	000020	8.460e+002
000004	8.460e+002	000021	7.655e+002
000005	8.823e+002	000022	7.896e+002
000006	8.017e+002	000023	7.372e+002
000007	8.057e+002	000024	8.783e+002
000008	9.145e+002	000025	7.937e+002
000009	7.614e+002	000026	8.783e+002
000010	7.574e+002	000027	8.783e+002
000011	9.588e+002	000028	6.849e+002
000012	8.017e+002	000029	1.043e+003
000013	8.299e+002	000030	7.695e+002
000014	8.219e+002		
000015	9.830e+002		
000016	1.180e+003		
000017	8.219e+002		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S35045A

Classification: Class 3

Survey Unit Name: Security Building Exterior Walls and Roof

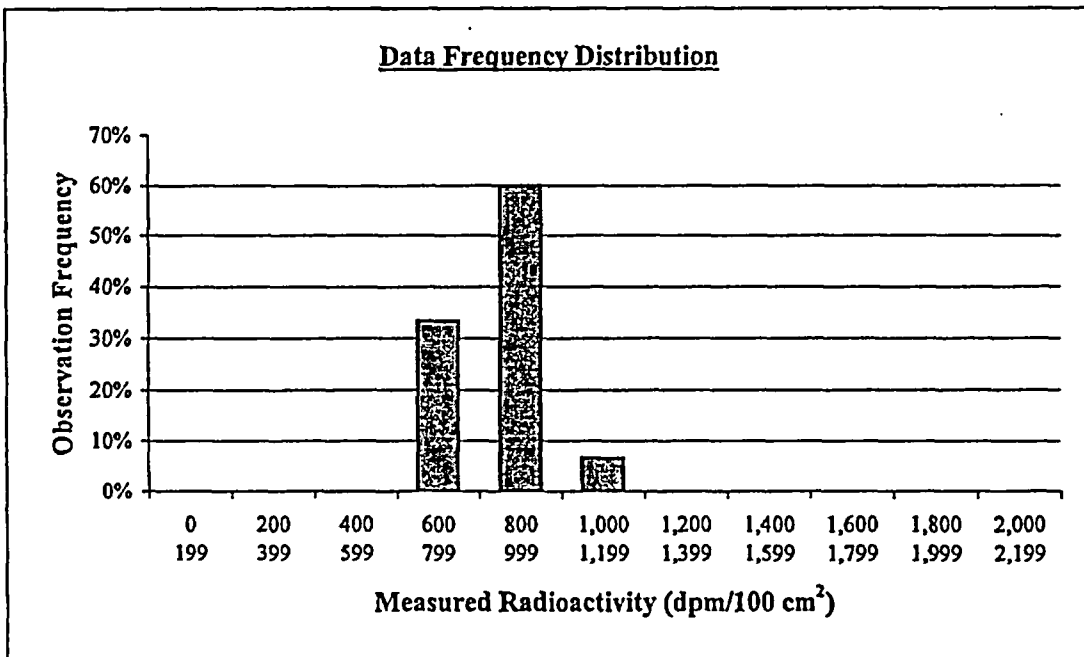
Size (m²): 708

Measurement Data Statistical Evaluation

Statistical Comparisons			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	495	511	Pass
Median	0.263	0.500	Pass
Mean	853	10,500	Pass
Std Dev	102	4,200	Pass

All data less than DCGL; Sign statistical test not required.

Statistical Quantities	
Range:	495
Median:	826
Mean:	853
Std Dev:	102
Minimum:	685
Maximum:	1,180
DCGL:	21,000



Plot Parameters	
# of measurements:	30
# of intervals:	11
Interval increment:	200
Minimum:	0
Maximum:	2,199

Comment:
NONE

Interval	High End	Low End	Number of Observations	Observation Frequency
1	199	0	0	0%
2	399	200	0	0%
3	599	400	0	0%
4	799	600	10	33%
5	999	800	18	60%
6	1,199	1,000	2	7%
7	1,399	1,200	0	0%
8	1,599	1,400	0	0%
9	1,799	1,600	0	0%
10	1,999	1,800	0	0%
11	2,199	2,000	0	0%
Total:			30	100%

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S35045A

Classification: Class 3

Survey Unit Name: Security Building Exterior Walls and Roof

Size (m²): 708

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 5

Measurement Units: dpm/100cm²

Investigation Level: 21,000

Minimum Value: 823

Maximum Value: 1,285

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 2,100

Minimum Value: 3

Maximum Value: 15

Discussion of Anomalous Measurement Data

Investigation Summary

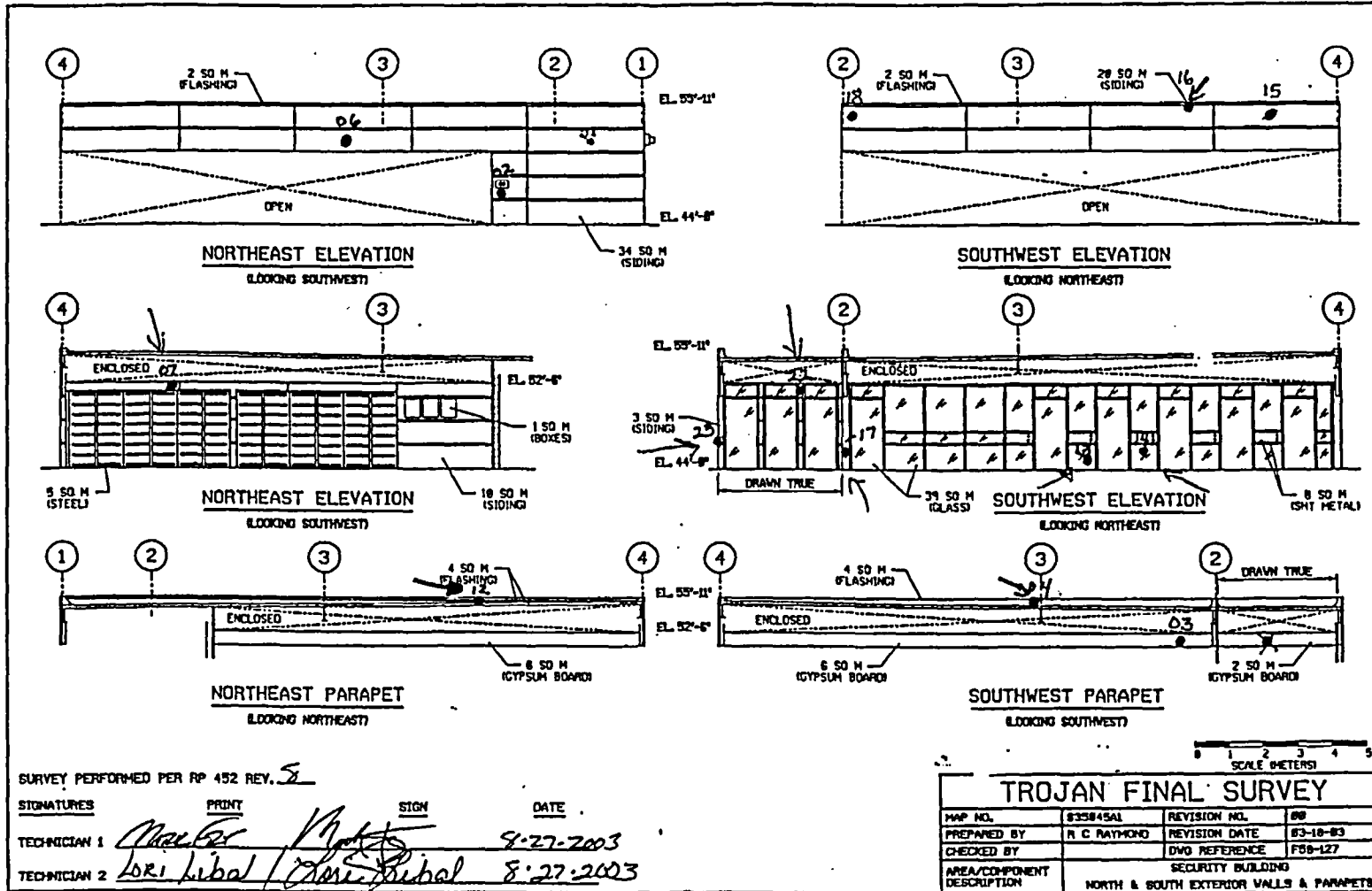
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S35045A
 Survey Unit Name: Security Building Exterior Walls and Roof

Classification: Class 3
 Size (m²): 708

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 5

SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	<i>[Signature]</i>	<i>[Signature]</i>	8-27-2003
TECHNICIAN 2	LORI LIBAL	<i>[Signature]</i>	8-27-2003

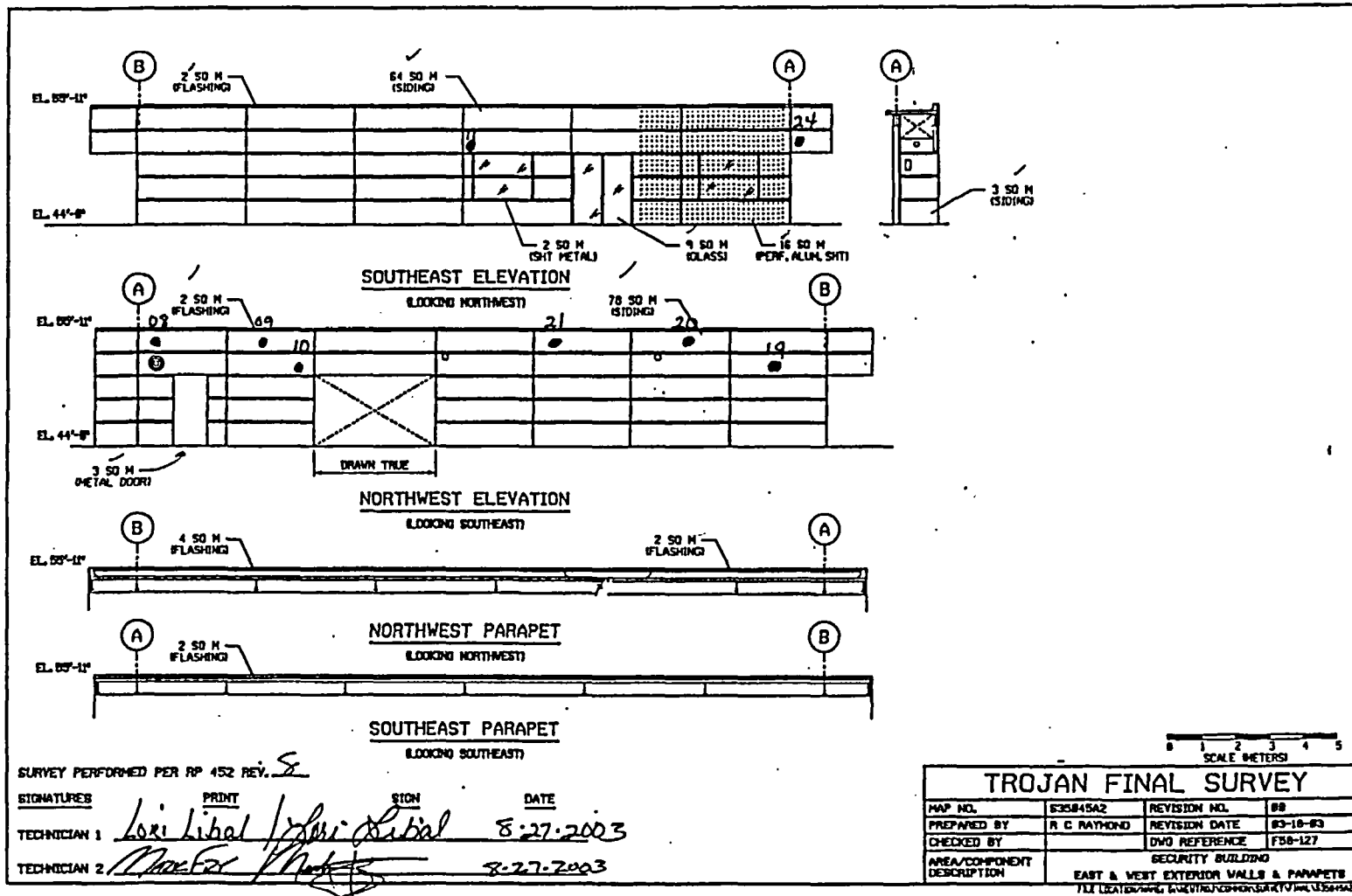
TROJAN FINAL SURVEY			
MAP NO.	S35045A	REVISION NO.	00
PREPARED BY	R. C. RAYMOND	REVISION DATE	03-10-03
CHECKED BY		DWG REFERENCE	FSB-127
AREA/COMPONENT DESCRIPTION	SECURITY BUILDING NORTH & SOUTH EXTERIOR WALLS & PARAPETS		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S35045A
 Survey Unit Name: Security Building Exterior Walls and Roof

Classification: Class 3
 Size (m²): 708

Static Measurement Locations Map

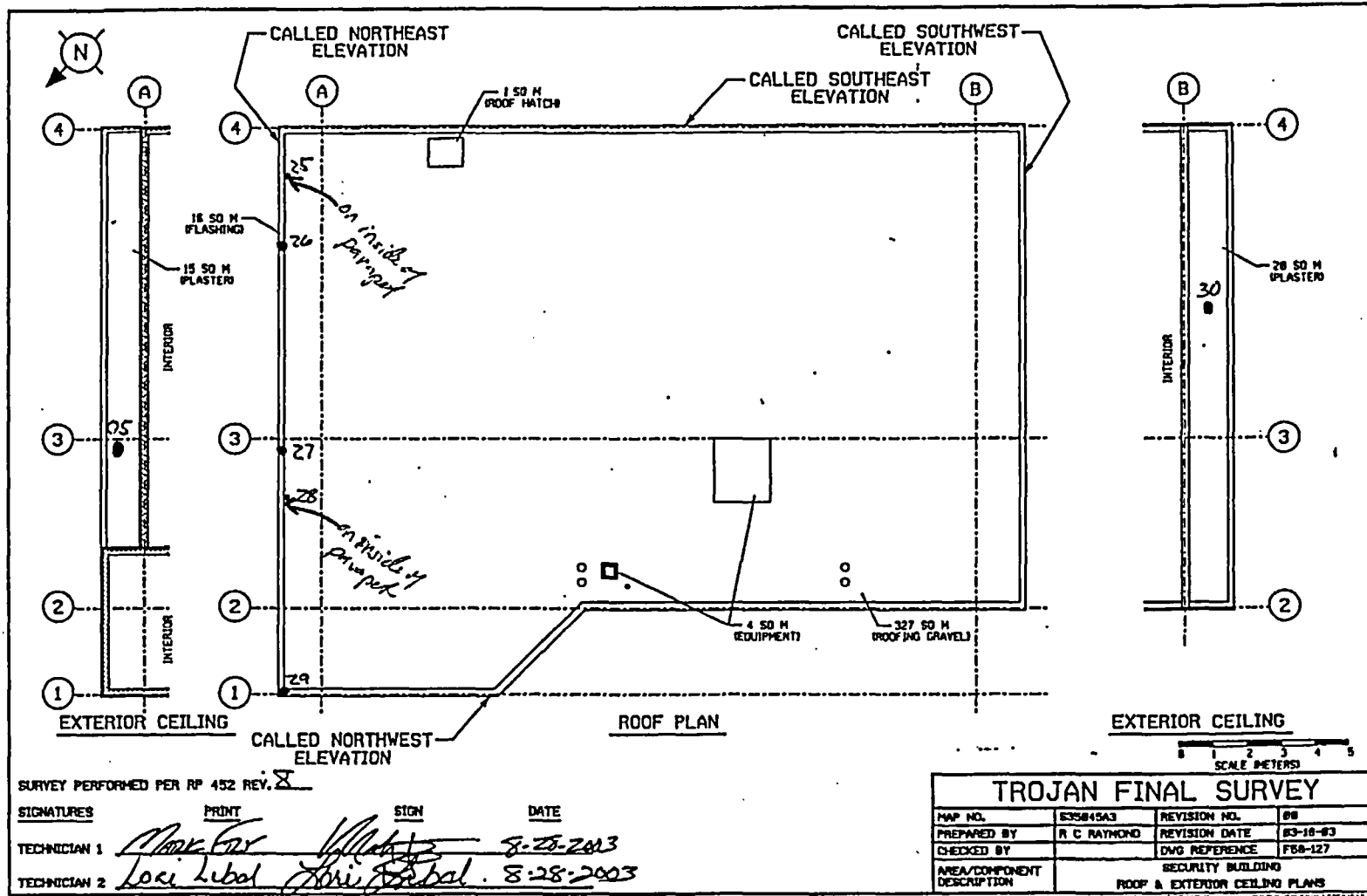


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S35045A
 Survey Unit Name: Security Building Exterior Walls and Roof

Classification: Class 3
 Size (m²): 708

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S36045A

Classification: Class 3

Survey Unit Name: Trojan Central Building East and North
Exterior Walls

Size (m²): 1,468

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 5.864e+002
 Maximum Value : 1.157e+003
 Range : 5.706e+002
 Median : 9.305e+002
 Std. Deviation : 1.717e+002
 Mean : 8.777e+002
 95% UCL : 9.309e+002

Measurement Values

Location	Value	Location	Value
000001	1.032e+003	000018	9.539e+002
000002	8.836e+002	000019	1.060e+003
000003	6.451e+002	000020	1.075e+003
000004	9.891e+002	000021	7.155e+002
000005	9.305e+002	000022	9.618e+002
000006	9.461e+002	000023	7.155e+002
000007	9.852e+002	000024	6.021e+002
000008	8.836e+002	000025	9.891e+002
000009	7.311e+002	000026	9.618e+002
000010	8.640e+002	000027	6.490e+002
000011	1.013e+003	000028	9.227e+002
000012	1.087e+003	000029	6.021e+002
000013	7.115e+002	000030	9.305e+002
000014	1.157e+003		
000015	6.451e+002		
000016	5.864e+002		
000017	1.103e+003		

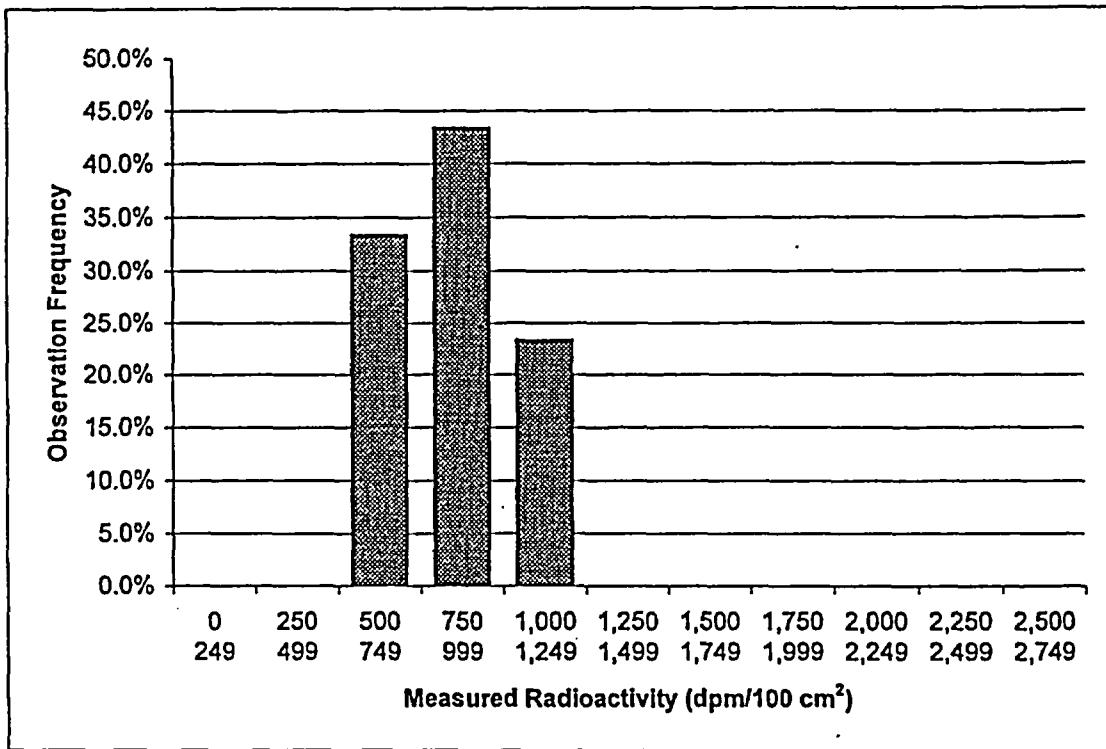
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S36045A
Survey Unit Name: Trojan Central Building East and North
 Exterior Walls

Classification: Class 3
Size (m²): 1,468

Measurement Data Statistical Evaluation

<u>Statistical Quantities Tests</u>				<u>Statistical Quantities</u>	
Test	Calculated Value	Acceptance Criteria	Acceptable?		
Range	571	858	Pass	Range:	571
Median	0.310	0.500	Pass	Median:	931
Mean	878	10,500	Pass	Mean:	878
Std Dev	172	4,200	Pass	Std Dev:	172
				Minimum:	586
				Maximum:	1,157
				DCGL:	21,000



<u>Plot Parameters</u>		Interval	High	Low	Number	Frequency
# of measurements:	30	1	249	0	0	0.0%
# of intervals:	11	2	499	250	0	0.0%
Interval increment:	250	3	749	500	10	33.3%
Minimum:	0	4	999	750	13	43.3%
Maximum:	2,749	5	1,249	1,000	7	23.3%
		6	1,499	1,250	0	0.0%
		7	1,749	1,500	0	0.0%
		8	1,999	1,750	0	0.0%
		9	2,249	2,000	0	0.0%
		10	2,499	2,250	0	0.0%
		11	2,749	2,500	0	0.0%
Total:					30	100%

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S36045A

Classification: Class 3

Survey Unit Name: Trojan Central Building East and North
Exterior Walls

Size (m²): 1,468

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 2

Measurement Units: dpm/100cm²

Investigation Level: 21,000

Minimum Value: 743

Maximum Value: 1,298

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

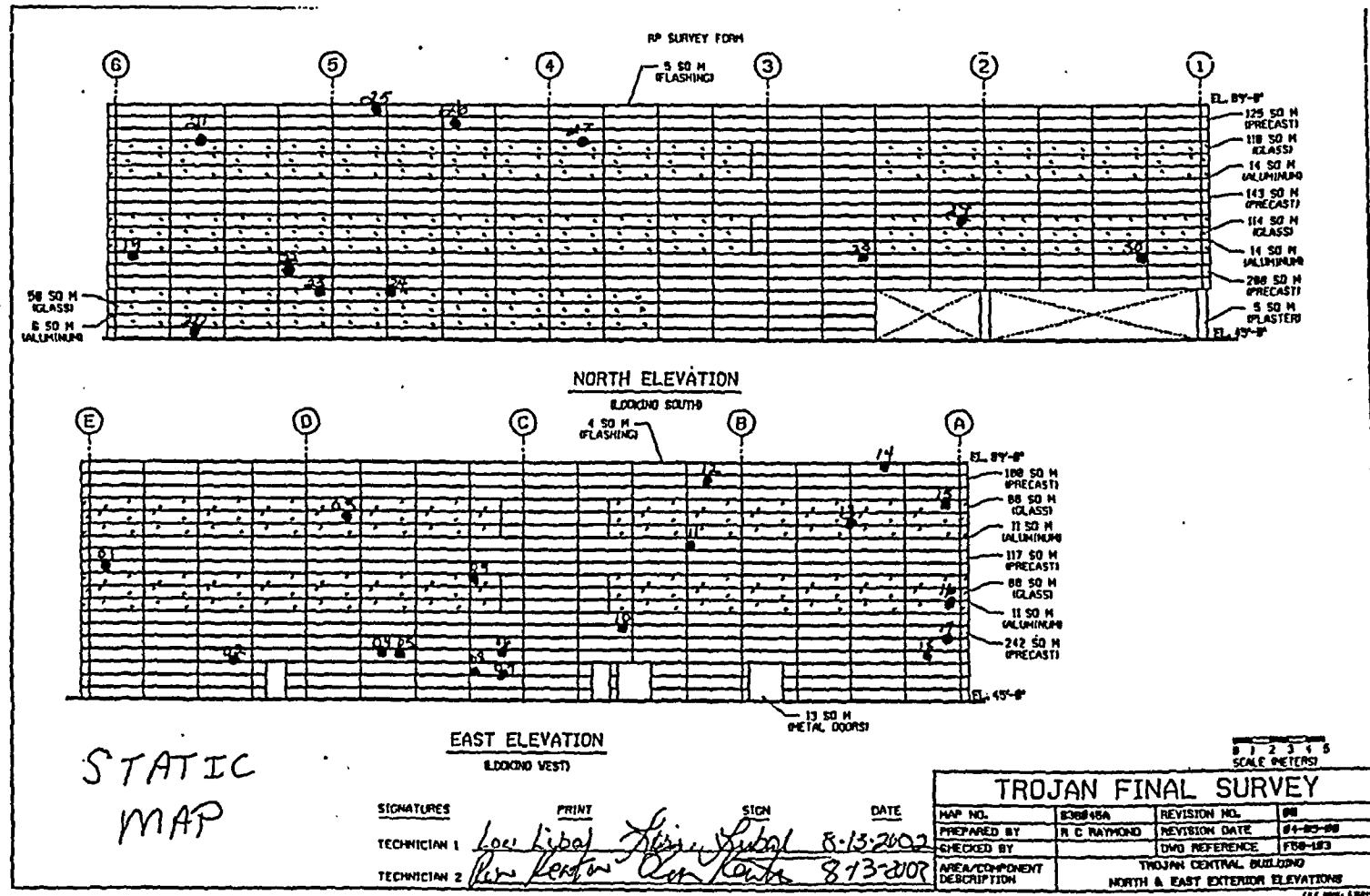
Survey Unit ID Code: S36045A

Survey Unit Name: Trojan Central Building East and North Exterior Walls

Classification: Class 3

Size (m²): 1,468

Static Measurement Locations Map



STATIC MAP

SIGNATURES PRINT SIGN DATE
 TECHNICIAN 1 *Loe Lipaj* *Lipaj* *Subal* 8-13-2002
 TECHNICIAN 2 *Ron Kenyon* *Kenyon* *Kenyon* 8-13-2002

TECH. 3 *CREIG TOLLOSHAWO* / *Creig* *May* 8-13-2002

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S36045B

Classification: Class 3

Survey Unit Name: Trojan Central Building South and West
Exterior Walls

Size (m²): 2,660

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	45	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 5.842e+002
 Maximum Value : 1.434e+003
 Range : 8.498e+002
 Median : 1.003e+003
 Std. Deviation : 2.248e+002
 Mean : 9.713e+002
 95% UCL : 1.028e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	1.172e+003	000018	1.056e+003	000035	1.124e+003
000002	1.060e+003	000019	6.688e+002	000036	1.172e+003
000003	1.205e+003	000020	1.221e+003	000037	1.003e+003
000004	7.856e+002	000021	1.321e+003	000038	1.015e+003
000005	9.548e+002	000022	1.350e+003	000039	8.219e+002
000006	6.607e+002	000023	5.842e+002	000040	1.104e+003
000007	7.252e+002	000024	7.816e+002	000041	1.293e+003
000008	6.808e+002	000025	1.056e+003	000042	7.937e+002
000009	7.493e+002	000026	8.984e+002	000043	1.064e+003
000010	1.184e+003	000027	1.076e+003	000044	1.184e+003
000011	7.211e+002	000028	9.911e+002	000045	8.662e+002
000012	1.434e+003	000029	9.185e+002		
000013	5.922e+002	000030	9.588e+002		
000014	5.962e+002	000031	1.136e+003		
000015	7.332e+002	000032	9.709e+002		
000016	1.144e+003	000033	1.188e+003		
000017	6.849e+002	000034	1.007e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S36045B

Classification: Class 3

Survey Unit Name: Trojan Central Building South and West
Exterior Walls

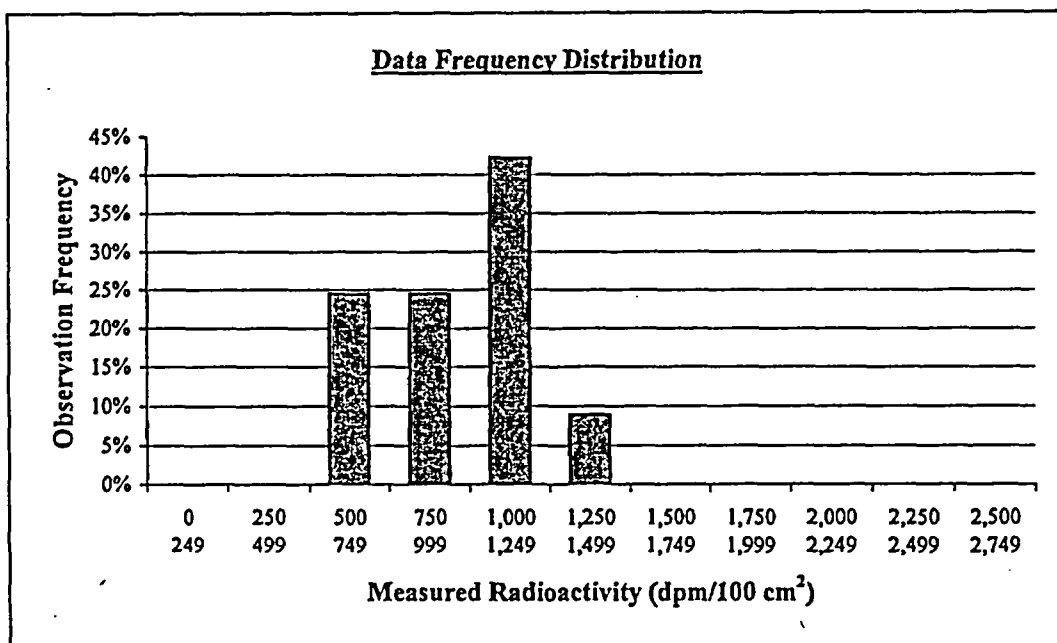
Size (m²): 2,660

Measurement Data Statistical Evaluation

Statistical Comparisons			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	850	1,124	Pass
Median	0.141	0.500	Pass
Mean	971	10,500	Pass
Std Dev	225	4,200	Pass

Statistical Quantities	
Range:	850
Median:	1,003
Mean:	971
Std Dev:	225
Minimum:	584
Maximum:	1,434
DCGL:	21,000

All data less than DCGL; Sign statistical test not required.



Plot Parameters	
# of measurements:	45
# of intervals:	11
Interval increment:	250
Minimum:	0
Maximum:	2,749

Interval	High End	Low End	Number of Observations	Observation Frequency
1	249	0	0	0%
2	499	250	0	0%
3	749	500	11	24%
4	999	750	11	24%
5	1,249	1,000	19	42%
6	1,499	1,250	4	9%
7	1,749	1,500	0	0%
8	1,999	1,750	0	0%
9	2,249	2,000	0	0%
10	2,499	2,250	0	0%
11	2,749	2,500	0	0%
Total:			45	100%

Comment:

NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S36045B

Classification: Class 3

Survey Unit Name: Trojan Central Building South and West
Exterior Walls

Size (m²): 2,660

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 3

Measurement Units: dpm/100cm²

Investigation Level: 21,000

Minimum Value: 856

Maximum Value: 2,041

Measurement Type: Removable Beta

Number of Measurements: 45

Measurement Units: dpm/100cm²

Investigation Level: 2,100

Minimum Value: 5

Maximum Value: 18

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

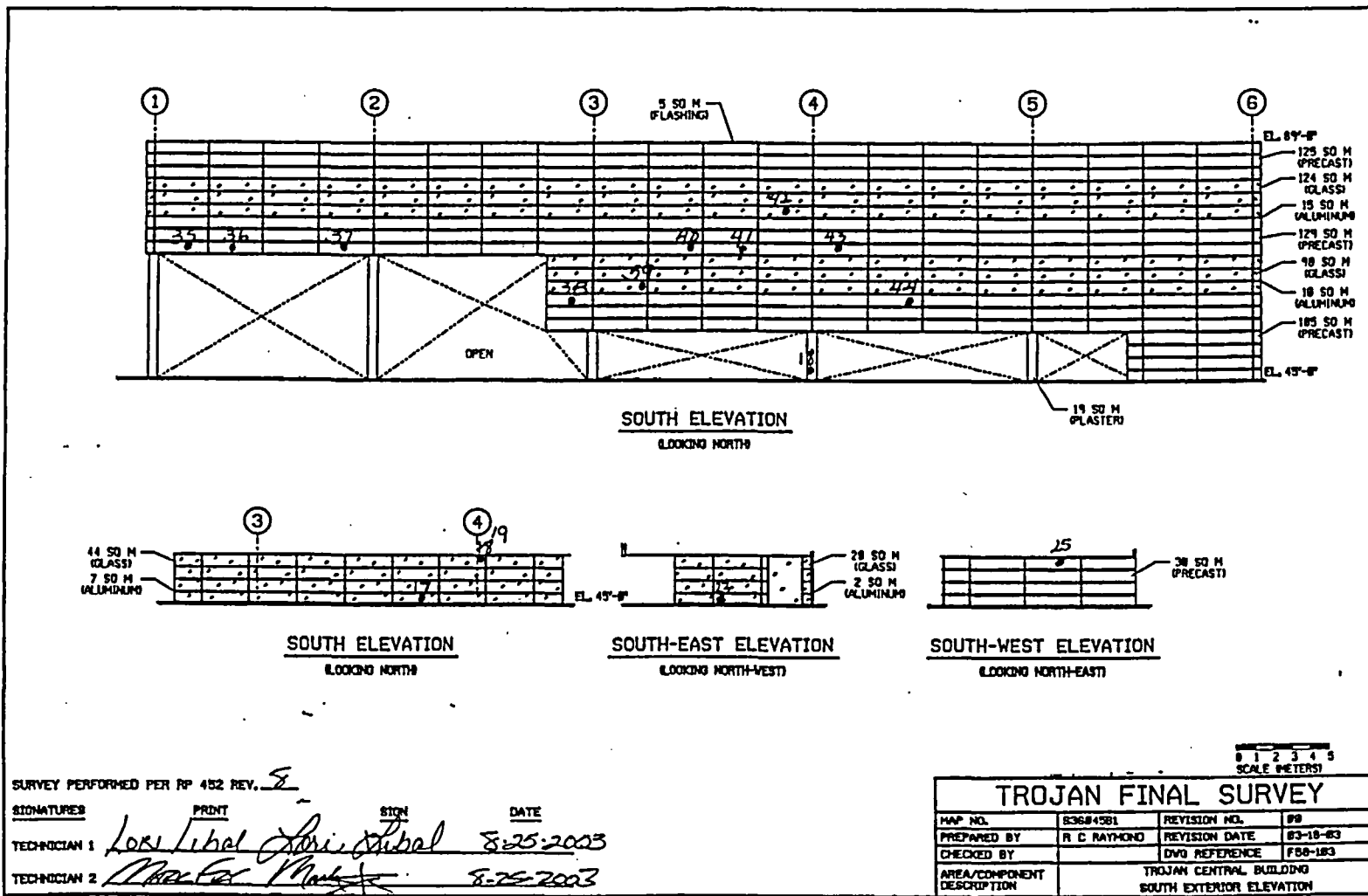
Survey Unit ID Code: S36045B

Survey Unit Name: Trojan Central Building South and West Exterior Walls

Classification: Class 3

Size (m²): 2,660

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

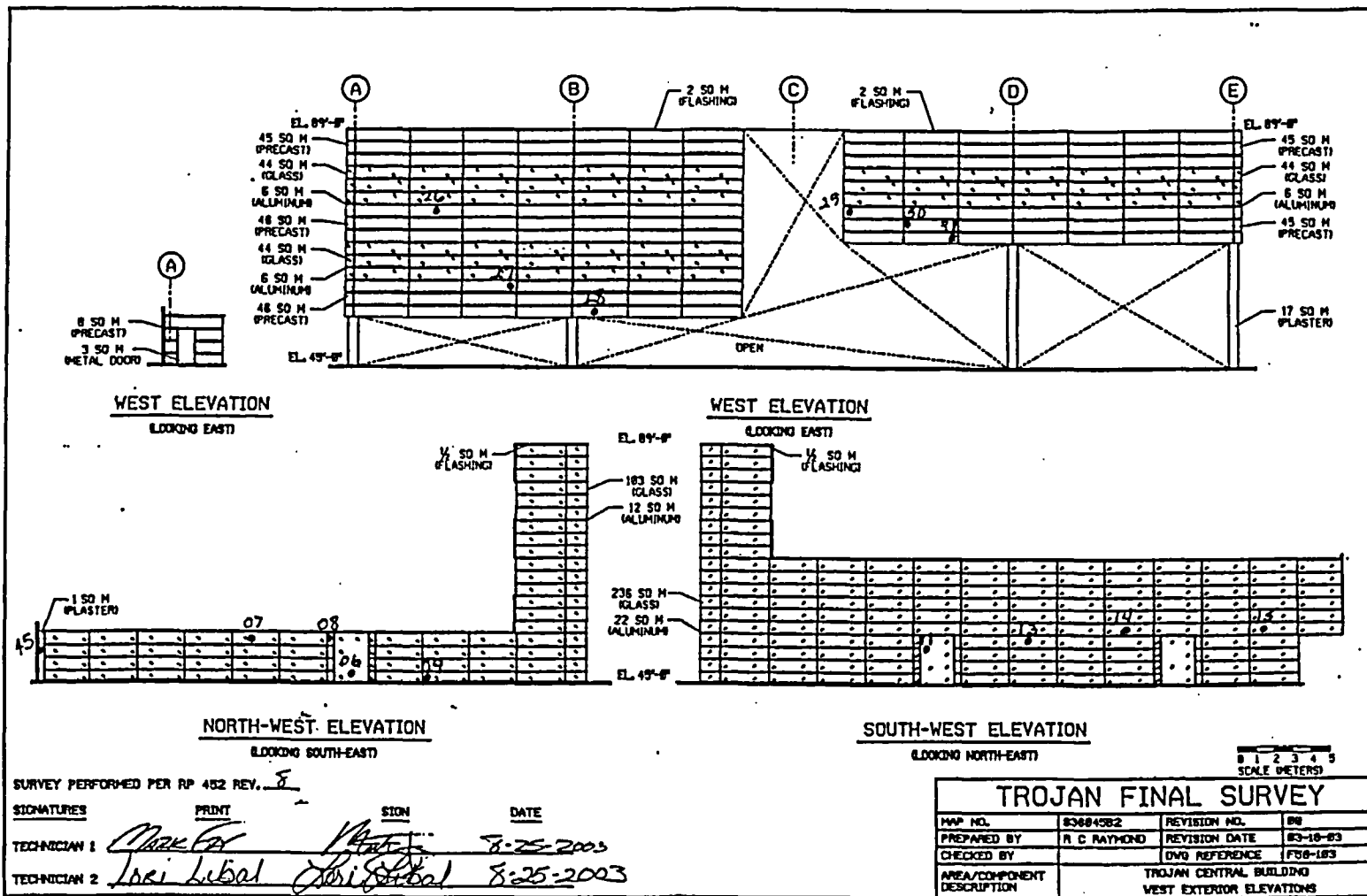
Survey Unit ID Code: S36045B

Survey Unit Name: Trojan Central Building South and West Exterior Walls

Classification: Class 3

Size (m²): 2,660

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

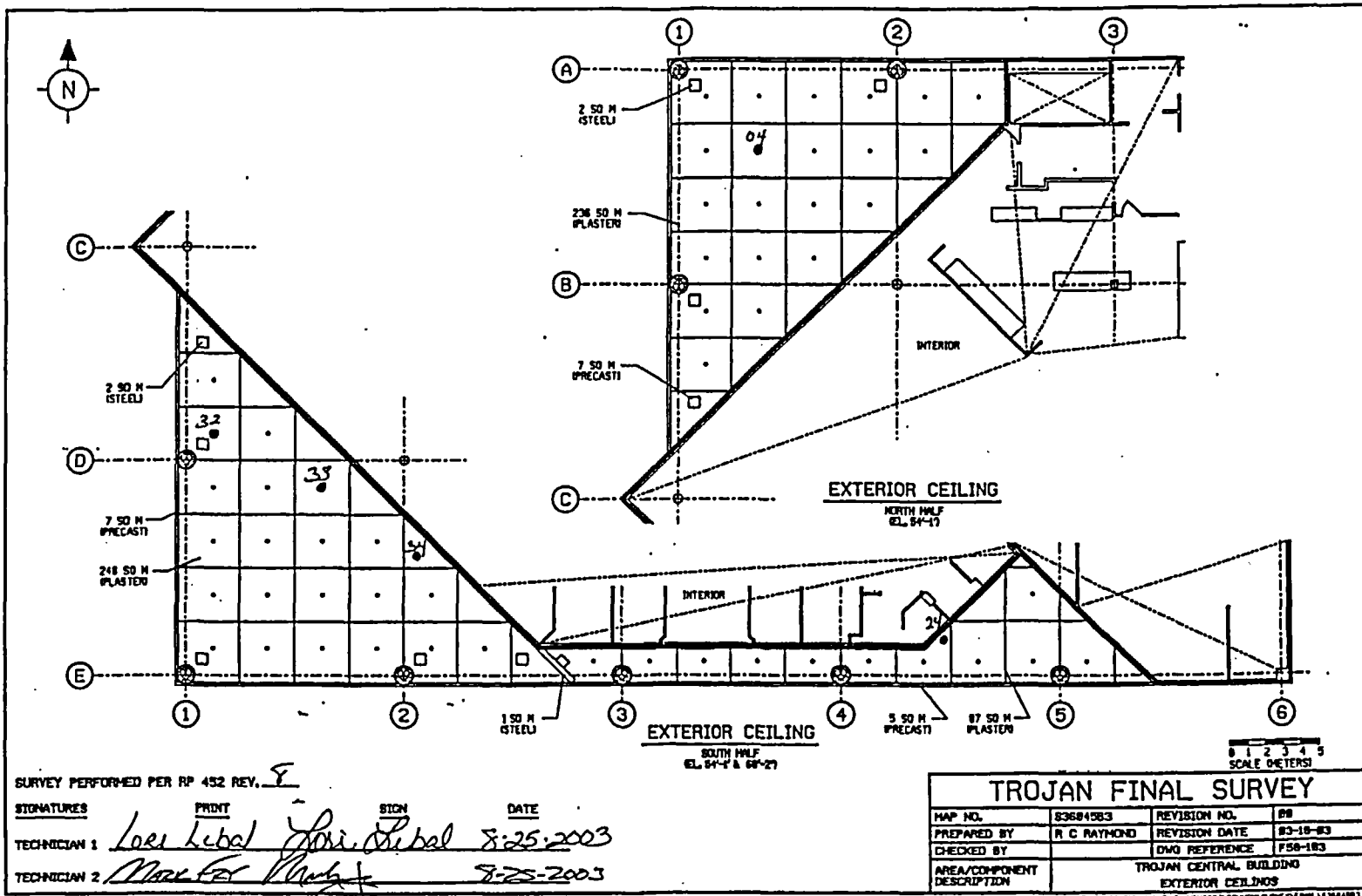
Survey Unit ID Code: S36045B

Survey Unit Name: Trojan Central Building South and West Exterior Walls

Classification: Class 3

Size (m²): 2,660

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

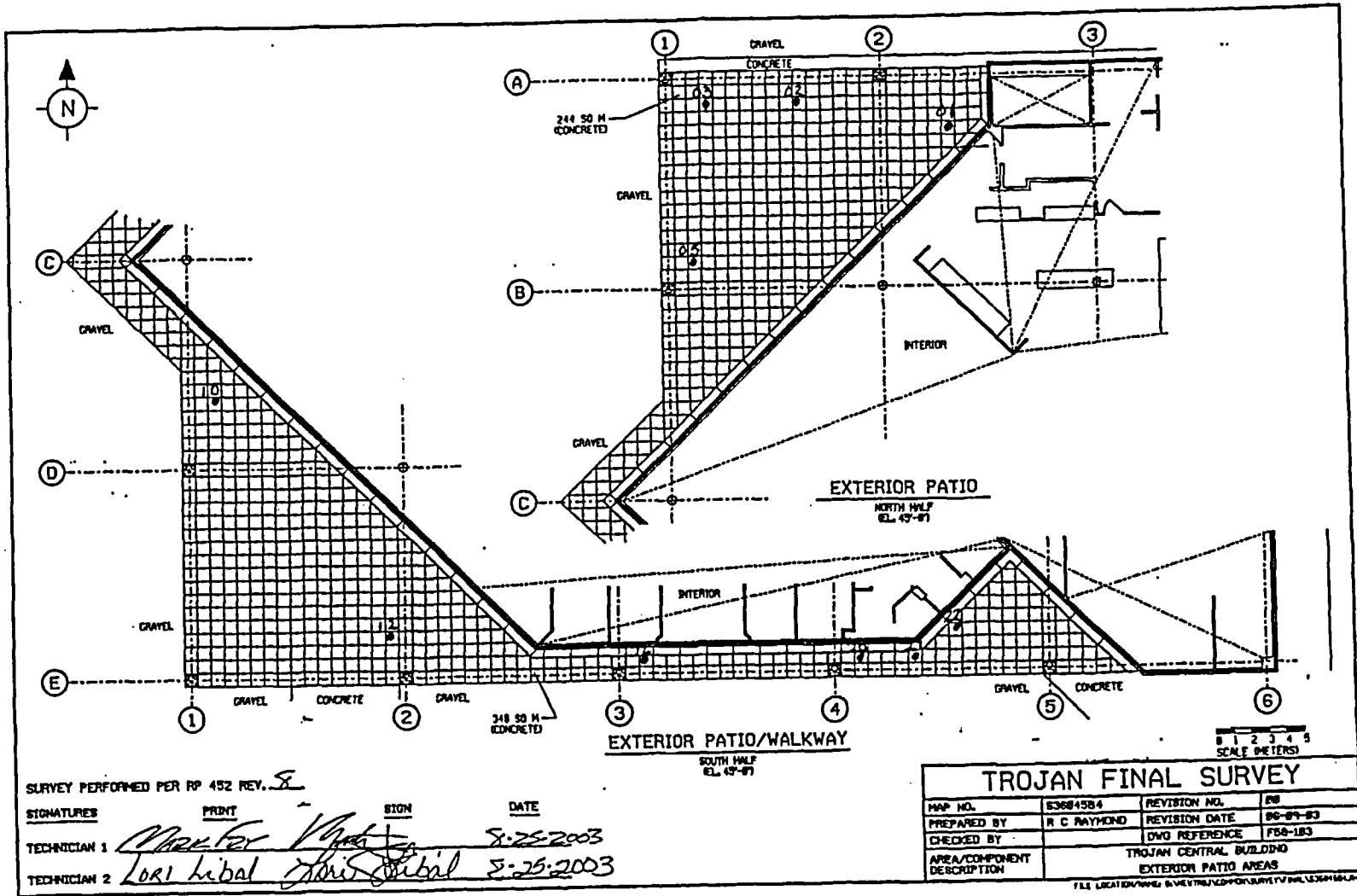
Survey Unit ID Code: S36045B

Survey Unit Name: Trojan Central Building South and West Exterior Walls

Classification: Class 3

Size (m²): 2,660

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S36089A

Classification: Class 3

Survey Unit Name: Trojan Central Building Roof

Size (m²): 3,234

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 8.468e+002
 Maximum Value : 2.349e+003
 Range : 1.502e+003
 Median : 1.277e+003
 Std. Deviation : 4.356e+002
 Mean : 1.432e+003
 95% UCL : 1.567e+003

Measurement Values

Location	Value	Location	Value
000001	2.089e+003	000018	1.004e+003
000002	1.051e+003	000019	1.706e+003
000003	1.187e+003	000020	1.200e+003
000004	1.294e+003	000021	1.034e+003
000005	8.468e+002	000022	1.617e+003
000006	1.204e+003	000023	1.417e+003
000007	1.247e+003	000024	1.306e+003
000008	2.340e+003	000025	1.298e+003
000009	9.489e+002	000026	1.060e+003
000010	2.247e+003	000027	1.311e+003
000011	2.102e+003	000028	1.498e+003
000012	1.191e+003	000029	1.383e+003
000013	1.238e+003	000030	1.157e+003
000014	1.260e+003		
000015	2.119e+003		
000016	2.349e+003		
000017	1.243e+003		

FINAL SURVEY RESULTS SUMMARY

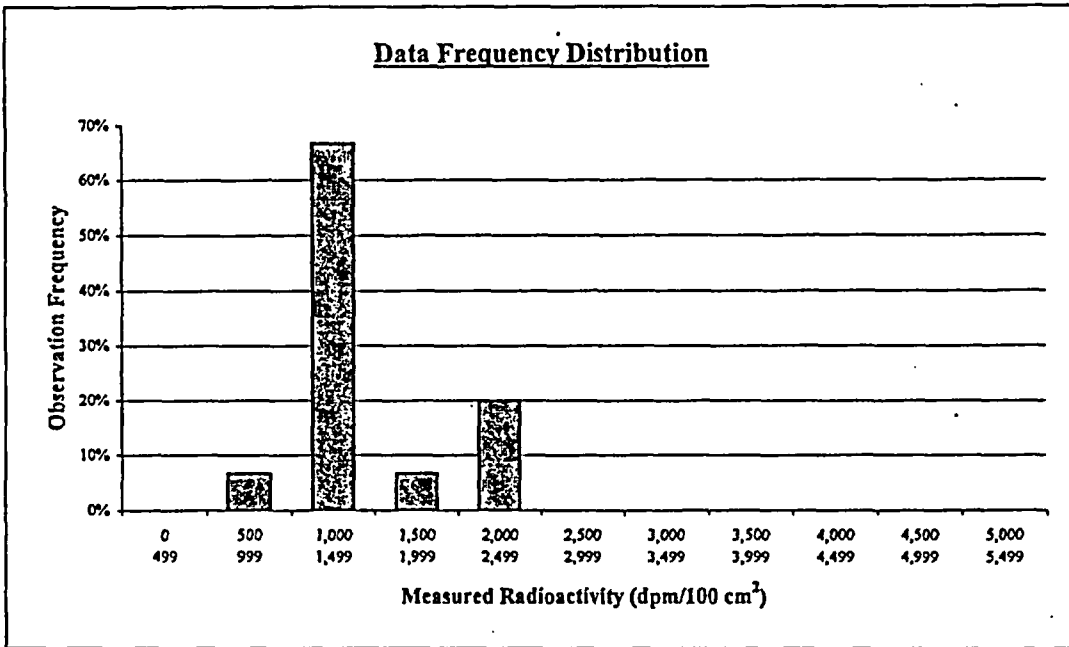
Survey Unit ID Code: S36089A
 Survey Unit Name: Trojan Central Building Roof

Classification: Class 3
 Size (m²): 3,234

Measurement Data Statistical Evaluation

Statistical Comparisons				Statistical Quantities	
Test	Calculated Value	Acceptance Criteria	Acceptable?	Range:	1,502
Range	1,502	2,178	Pass	Median:	1,277
Median	0.355	0.500	Pass	Mean:	1,432
Mean	1,432	10,500	Pass	Std Dev:	436
Std Dev	436	4,200	Pass	Minimum:	847
				Maximum:	2,349
				DCGL:	21,000

All data less than DCGL; Sign statistical test not required.



Plot Parameters		Number of Observation				
		Interval	High End	Low End	Observations	Frequency
# of measurements:	30	1	499	0	0	0%
# of intervals:	11	2	999	500	2	7%
Interval increment:	500	3	1,499	1,000	20	67%
Minimum:	0	4	1,999	1,500	2	7%
Maximum:	5,499	5	2,499	2,000	6	20%
		6	2,999	2,500	0	0%
		7	3,499	3,000	0	0%
		8	3,999	3,500	0	0%
		9	4,499	4,000	0	0%
		10	4,999	4,500	0	0%
		11	5,499	5,000	0	0%
		Total:			30	100%

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S36089A

Classification: Class 3

Survey Unit Name: Trojan Central Building Roof

Size (m²): 3,234

Judgmental and Miscellaneous Measurement Data

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 2,100

Minimum Value: 45

Maximum Value: 83

Discussion of Anomalous Measurement Data

Investigation Summary

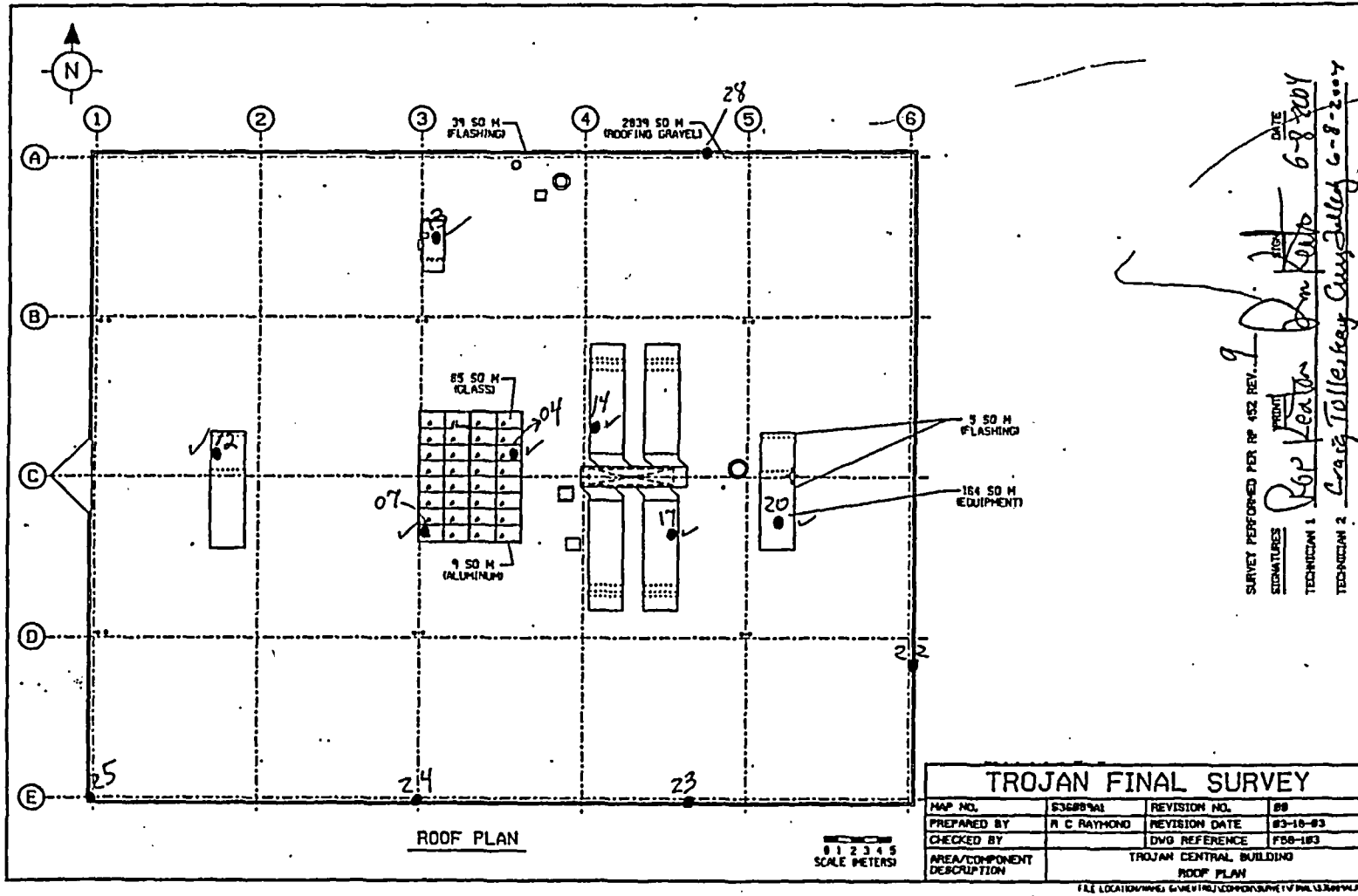
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S36089A
 Survey Unit Name: Trojan Central Building Roof

Classification: Class 3
 Size (m²): 3,234

Static Measurement Locations Map

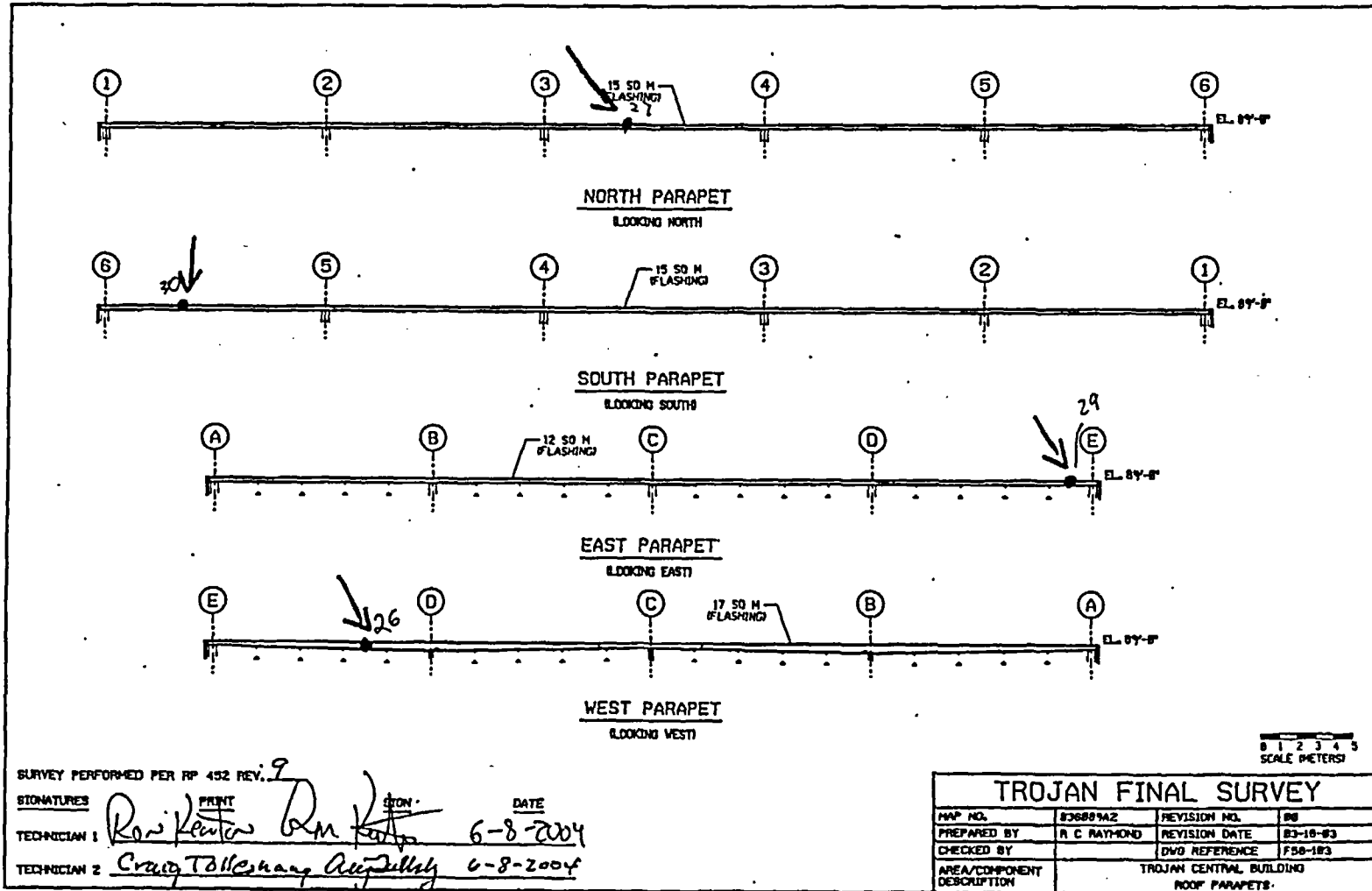


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S36089A
 Survey Unit Name: Trojan Central Building Roof

Classification: Class 3
 Size (m²): 3,234

Static Measurement Locations Map

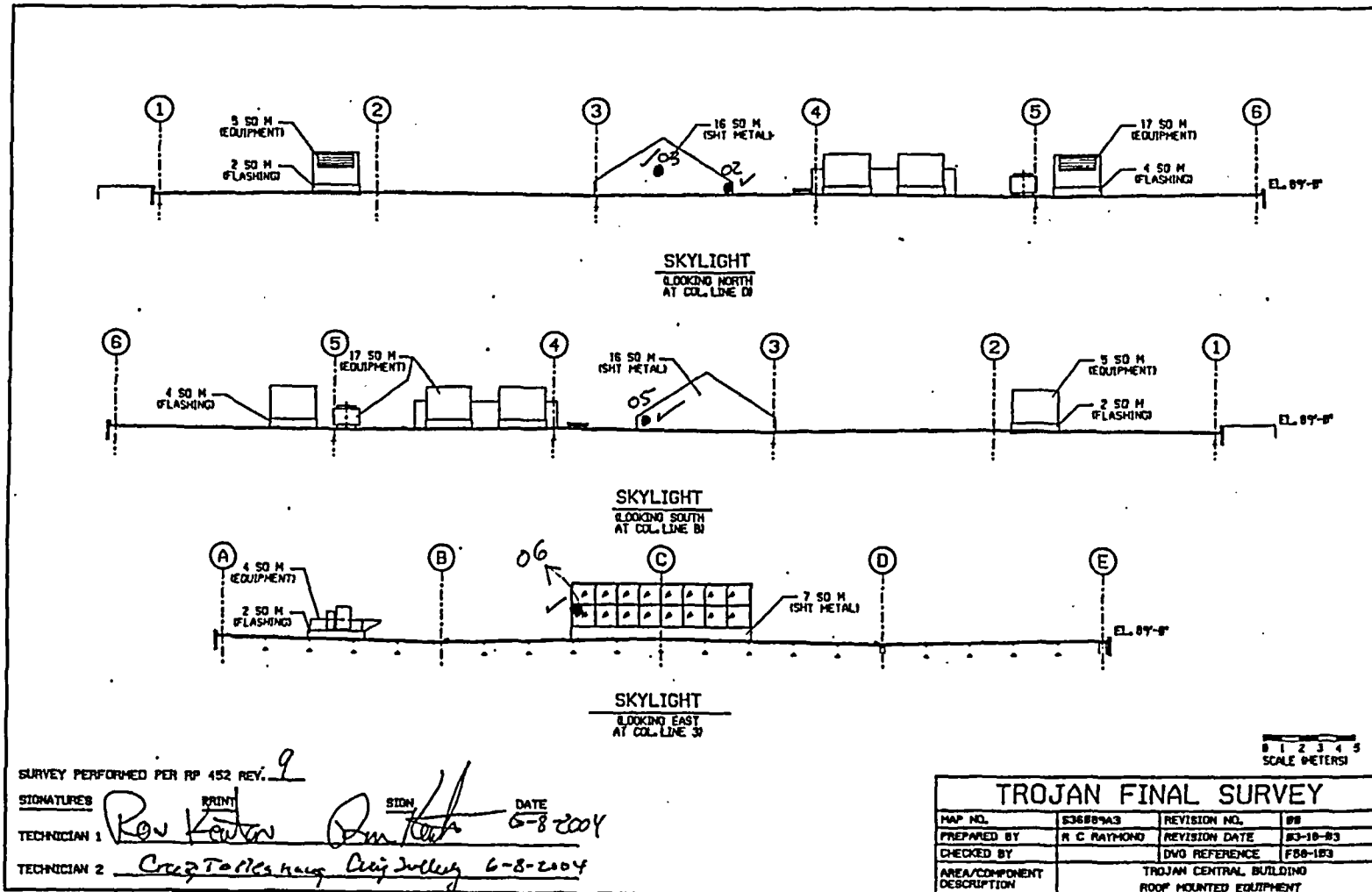


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S36089A
 Survey Unit Name: Trojan Central Building Roof

Classification: Class 3
 Size (m²): 3,234

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 9

SIGNATURES: *Rev. Kewen* (PRINT) *Rev. Kewen* (SIGN) DATE: 6-8-2004

TECHNICIAN 1: *Rev. Kewen*

TECHNICIAN 2: *Craig T. McCaskey* DATE: 6-8-2004

TROJAN FINAL SURVEY			
MAP NO.	S36089A3	REVISION NO.	08
PREPARED BY	R. C. RAYMOND	REVISION DATE	03-10-03
CHECKED BY		DWG REFERENCE	F80-103
AREA/COMPONENT DESCRIPTION	TROJAN CENTRAL BUILDING ROOF MOUNTED EQUIPMENT		

FILE LOCATION: \\P:\B\VE\TROJAN\COMP\ROOF SURVEY\DWG\F80-103.DWG

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S37045A
 Survey Unit Name: Materials Warehouse Exterior Walls

Classification: Class 3
 Size (m²): 1,343

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 7.311e+002
 Maximum Value : 1.651e+003
 Range : 9.199e+002
 Median : 1.444e+003
 Std. Deviation : 1.844e+002
 Mean : 1.398e+003
 95% UCL : 1.455e+003

Measurement Values

Location	Value	Location	Value
000001	1.500e+003	000018	1.444e+003
000002	1.232e+003	000019	1.376e+003
000003	1.551e+003	000020	1.464e+003
000004	1.196e+003	000021	1.516e+003
000005	1.466e+003	000022	1.384e+003
000006	1.247e+003	000023	1.212e+003
000007	7.311e+002	000024	1.232e+003
000008	1.432e+003	000025	1.444e+003
000009	1.603e+003	000026	1.615e+003
000010	1.651e+003	000027	1.412e+003
000011	1.404e+003	000028	1.476e+003
000012	1.468e+003	000029	1.555e+003
000013	1.619e+003	000030	1.452e+003
000014	1.216e+003		
000015	1.444e+003		
000016	1.177e+003		
000017	1.416e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S37045A

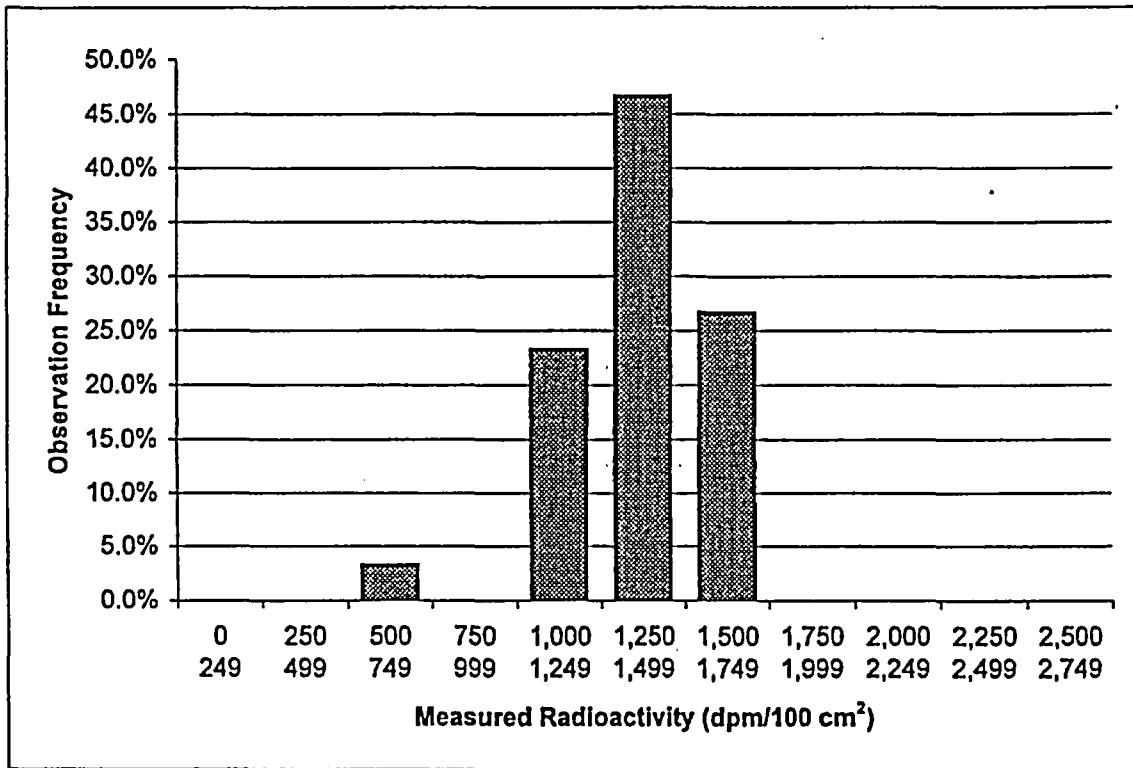
Classification: Class 3

Survey Unit Name: Materials Warehouse Exterior Walls

Size (m²): 1,343

Measurement Data Statistical Evaluation

Statistical Quantities Tests				Statistical Quantities	
Test	Value	Criteria	Acceptable?	Range:	920
Range	920	922	Pass	Median:	1,444
Mean	0,250	0,500	Pass	Mean:	1,398
Mean	1,398	10,500	Pass	Std Dev:	184
Std Dev	184	4,200	Pass	Minimum:	731
				Maximum:	1,651
				DCGL:	21,000



Plot Parameters		Interval	High	Low.	Number	Frequency
# of measurements:	30	1	249	0	0	0.0%
# of intervals:	11	2	499	250	0	0.0%
Interval increment:	250	3	749	500	1	3.3%
Minimum:	0	4	999	750	0	0.0%
Maximum:	2,749	5	1,249	1,000	7	23.3%
		6	1,499	1,250	14	46.7%
		7	1,749	1,500	8	26.7%
		8	1,999	1,750	0	0.0%
		9	2,249	2,000	0	0.0%
		10	2,499	2,250	0	0.0%
		11	2,749	2,500	0	0.0%
		Total:			30	100%

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S37045A

Classification: Class 3

Survey Unit Name: Materials Warehouse Exterior Walls

Size (m²): 1,343

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 2

Measurement Units: dpm/100cm²

Investigation Level: 21,000

Minimum Value: 1,088

Maximum Value: 1,984

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

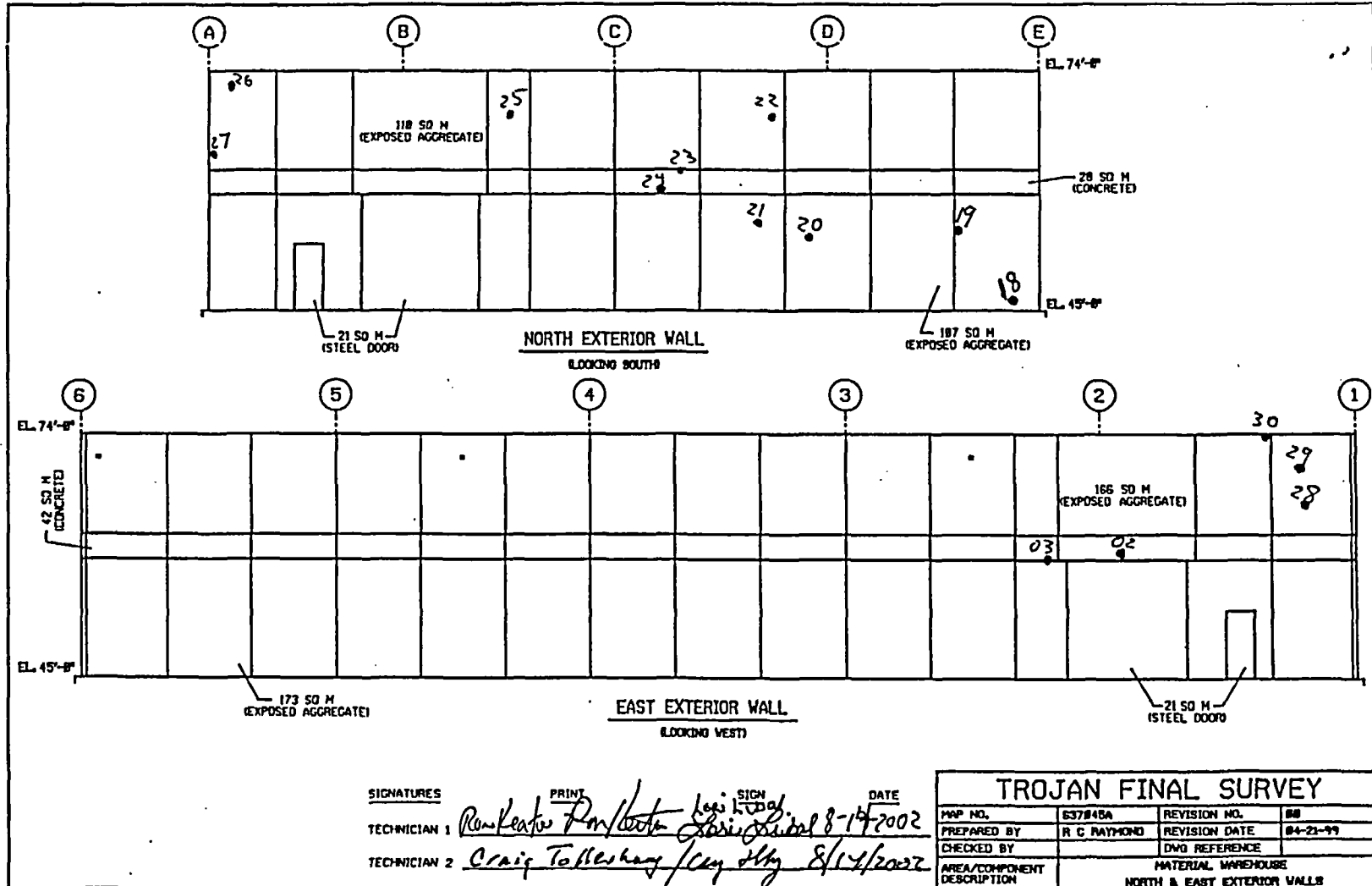
Survey Unit ID Code: S37045A

Survey Unit Name: Materials Warehouse Exterior Walls

Classification: Class 3

Size (m²): 1,343

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

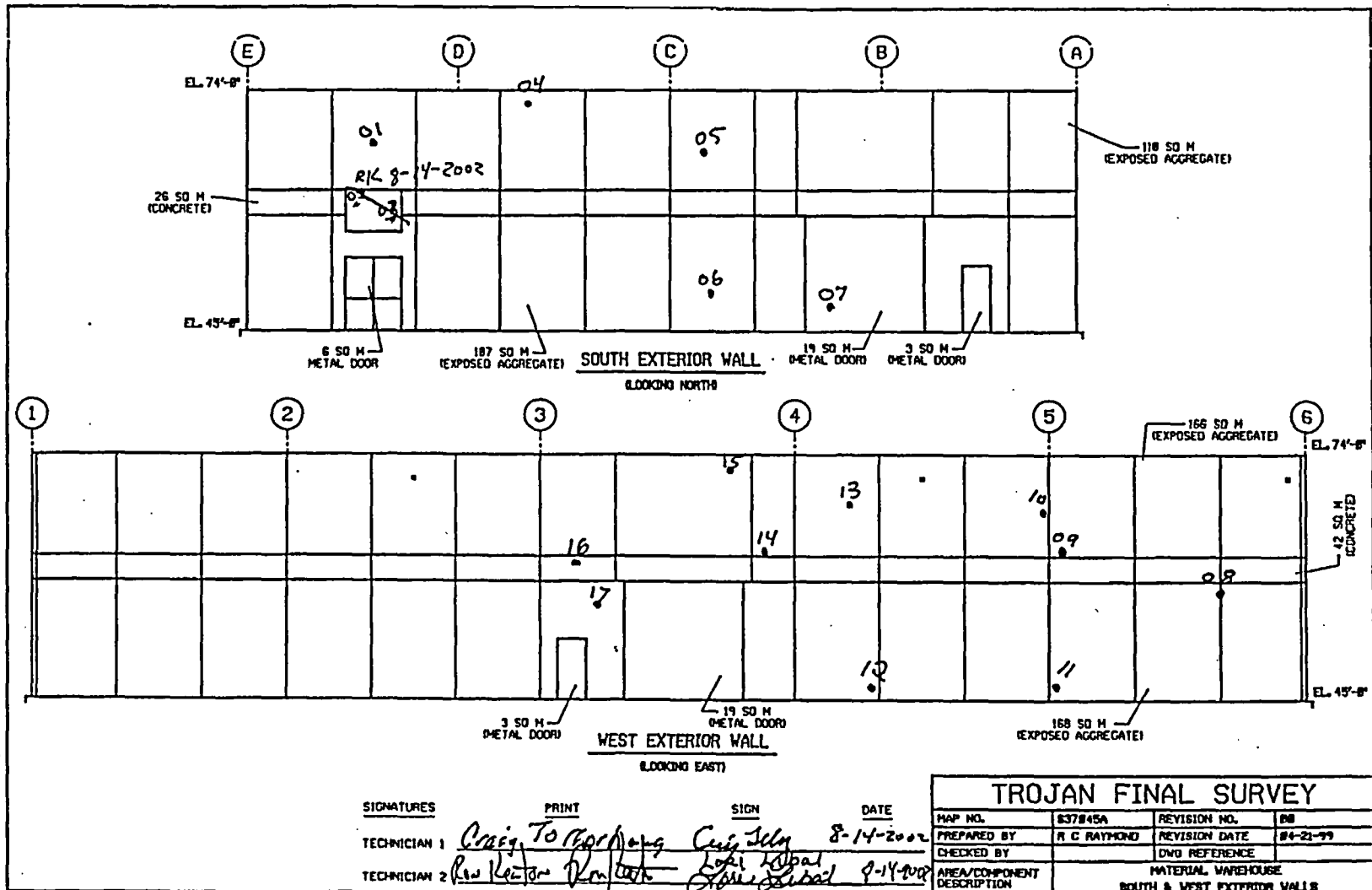
Survey Unit ID Code: S37045A

Survey Unit Name: Materials Warehouse Exterior Walls

Classification: Class 3

Size (m²): 1,343

Static Measurement Locations Map



SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	<i>Craig Toorhans</i>	<i>Craig Toorhans</i>	8-14-2002
TECHNICIAN 2	<i>Paul Weston</i>	<i>Paul Weston</i>	8-14-2002

TROJAN FINAL SURVEY			
MAP NO.	S37045A	REVISION NO.	00
PREPARED BY	R C RAYMOND	REVISION DATE	04-21-99
CHECKED BY		DWG REFERENCE	
AREA/COMPONENT DESCRIPTION	MATERIAL WAREHOUSE SOUTH & WEST EXTERIOR WALLS		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S37074A
 Survey Unit Name: Materials Warehouse Roof

Classification: Class 3
 Size (m²): 1,368

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 1.438e+003
 Maximum Value : 2.962e+003
 Range : 1.524e+003
 Median : 2.460e+003
 Std. Deviation : 4.297e+002
 Mean : 2.285e+003
 95% UCL : 2.418e+003

Measurement Values

Location	Value	Location	Value
000001	1.604e+003	000018	2.668e+003
000002	2.345e+003	000019	2.638e+003
000003	1.540e+003	000020	2.604e+003
000004	2.545e+003	000021	2.723e+003
000005	2.430e+003	000022	1.485e+003
000006	1.796e+003	000023	2.489e+003
000007	2.732e+003	000024	1.843e+003
000008	2.430e+003	000025	1.962e+003
000009	1.915e+003	000026	2.540e+003
000010	2.634e+003	000027	2.553e+003
000011	2.072e+003	000028	2.149e+003
000012	2.353e+003	000029	2.962e+003
000013	2.557e+003	000030	2.557e+003
000014	1.438e+003		
000015	2.528e+003		
000016	1.791e+003		
000017	2.668e+003		

FINAL SURVEY RESULTS SUMMARY

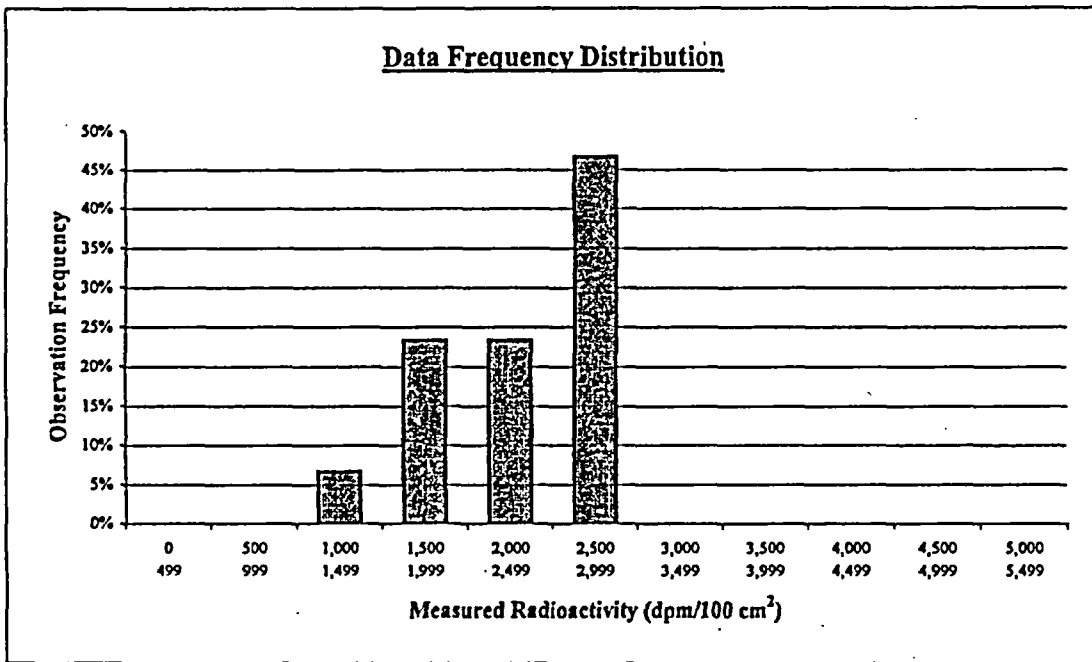
Survey Unit ID Code: S37074A
Survey Unit Name: Materials Warehouse Roof

Classification: Class 3
Size (m²): 1,368

Measurement Data Statistical Evaluation

<u>Statistical Comparisons</u>				<u>Statistical Quantities</u>	
Test	Calculated Value	Acceptance Criteria	Acceptable?		
Range	1,524	2,149	Pass	Range:	1,524
Median	0.406	0.500	Pass	Median:	2,460
Mean	2,285	10,500	Pass	Mean:	2,285
Std Dev	430	4,200	Pass	Std Dev:	430
				Minimum:	1,438
				Maximum:	2,962
				DCGL:	21,000

All data less than DCGL; Sign statistical test not required.



<u>Plot Parameters</u>		<u>Number of Observations</u>				<u>Observation Frequency</u>
		<u>Interval</u>	<u>High End</u>	<u>Low End</u>		
# of measurements:	30	1	499	0	0	0%
# of intervals:	11	2	999	500	0	0%
Interval increment:	500	3	1,499	1,000	2	7%
Minimum:	0	4	1,999	1,500	7	23%
Maximum:	5,499	5	2,499	2,000	7	23%
		6	2,999	2,500	14	47%
		7	3,499	3,000	0	0%
		8	3,999	3,500	0	0%
		9	4,499	4,000	0	0%
		10	4,999	4,500	0	0%
		11	5,499	5,000	0	0%
		Total:			30	100%

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S37074A
Survey Unit Name: Materials Warehouse Roof

Classification: Class 3
Size (m²): 1,368

Judgmental and Miscellaneous Measurement Data

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 40

Number of Measurements: 30
Investigation Level: 2,100
Maximum Value: 83

Discussion of Anomalous Measurement Data

Investigation Summary

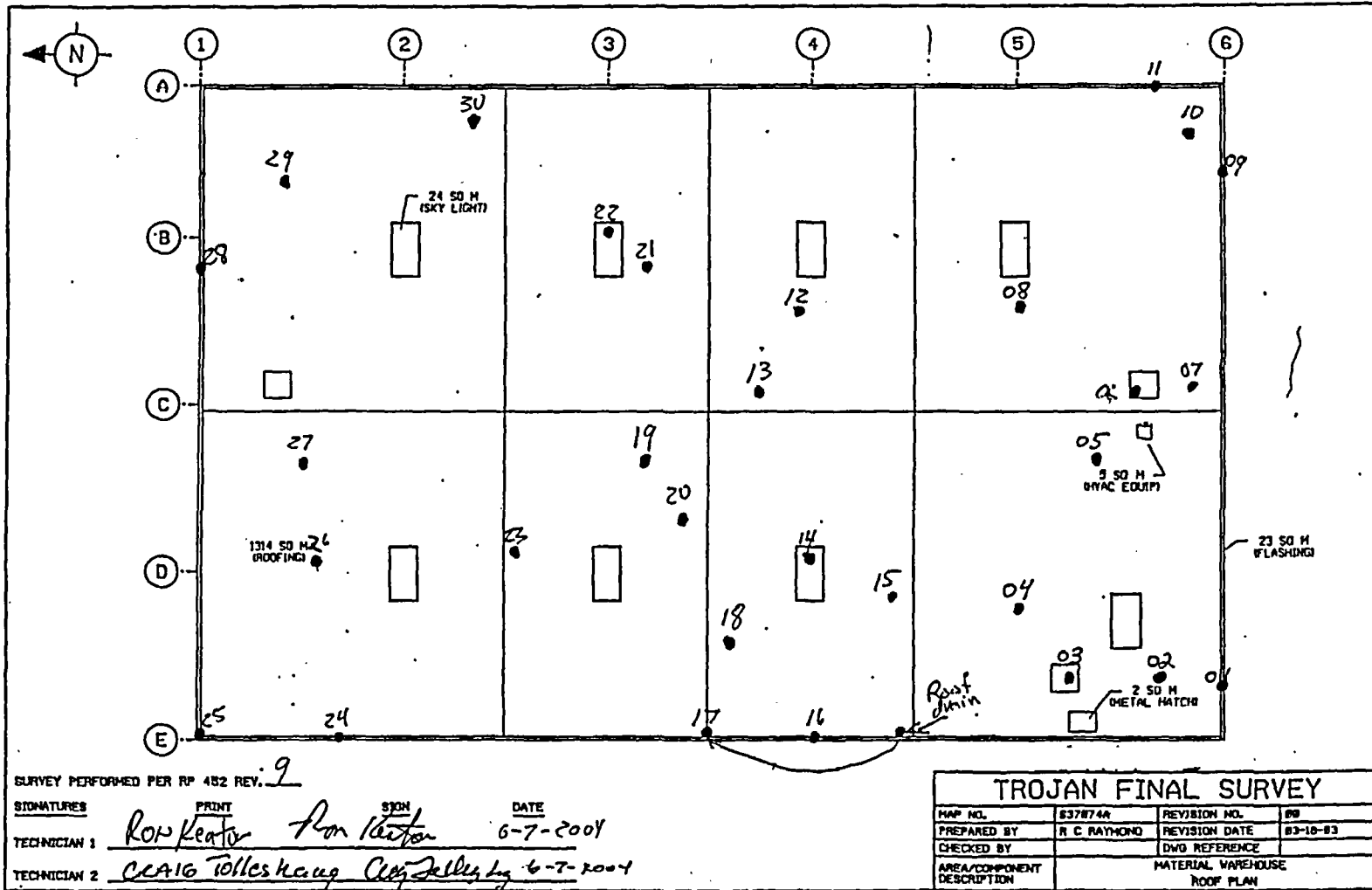
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S37074A
 Survey Unit Name: Materials Warehouse Roof

Classification: Class 3
 Size (m²): 1,368

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S38045B

Classification: Class 3

Survey Unit Name: Discharge and Dilution Structure Exterior

Size (m²): 228

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 7.536e+002
 Maximum Value : 1.704e+003
 Range : 9.504e+002
 Median : 1.277e+003
 Std. Deviation : 2.305e+002
 Mean : 1.289e+003
 95% UCL : 1.361e+003

Measurement Values

Location	Value	Location	Value
000001	1.211e+003	000018	1.515e+003
000002	1.235e+003	000019	1.351e+003
000003	1.150e+003	000020	1.150e+003
000004	1.295e+003	000021	1.239e+003
000005	1.275e+003	000022	1.279e+003
000006	7.937e+002	000023	1.263e+003
000007	8.217e+002	000024	1.411e+003
000008	1.399e+003	000025	1.499e+003
000009	1.267e+003	000026	1.511e+003
000010	1.323e+003	000027	1.203e+003
000011	7.536e+002	000028	1.170e+003
000012	1.118e+003	000029	1.299e+003
000013	1.635e+003	000030	1.347e+003
000014	1.611e+003		
000015	1.231e+003		
000016	1.704e+003		
000017	1.619e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S38045B

Classification: Class 3

Survey Unit Name: Discharge and Dilution Structure Exterior

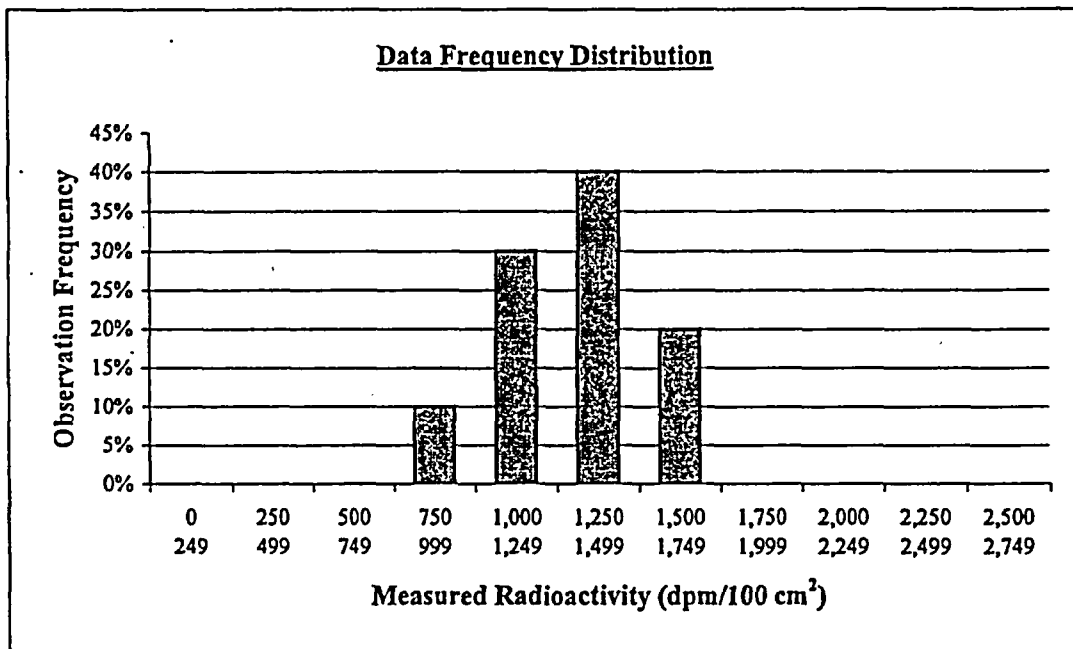
Size (m²): 228

Measurement Data Statistical Evaluation

Statistical Comparisons			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	950	1,152	Pass
Median	0.054	0.500	Pass
Mean	1,289	16,800	Pass
Std Dev	230	4,200	Pass

Statistical Quantities	
Range:	950
Median:	1,277
Mean:	1,289
Std Dev:	230
Minimum:	754
Maximum:	1,704
DCGL:	21,000

All data less than DCGL; Sign statistical test not required.



Plot Parameters	
# of measurements:	30
# of intervals:	11
Interval increment:	250
Minimum:	0
Maximum:	2,749

Comment:
NONE

Interval	High End	Low End	Number of Observations	Observation Frequency
1	249	0	0	0%
2	499	250	0	0%
3	749	500	0	0%
4	999	750	3	10%
5	1,249	1,000	9	30%
6	1,499	1,250	12	40%
7	1,749	1,500	6	20%
8	1,999	1,750	0	0%
9	2,249	2,000	0	0%
10	2,499	2,250	0	0%
11	2,749	2,500	0	0%
Total:			30	100%

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S38045B

Classification: Class 3

Survey Unit Name: Discharge and Dilution Structure Exterior

Size (m²): 228

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 7

Measurement Units: dpm/100cm²

Investigation Level: 21,000

Minimum Value: 958

Maximum Value: 1,888

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 2,100

Minimum Value: 2

Maximum Value: 29

Discussion of Anomalous Measurement Data

Investigation Summary

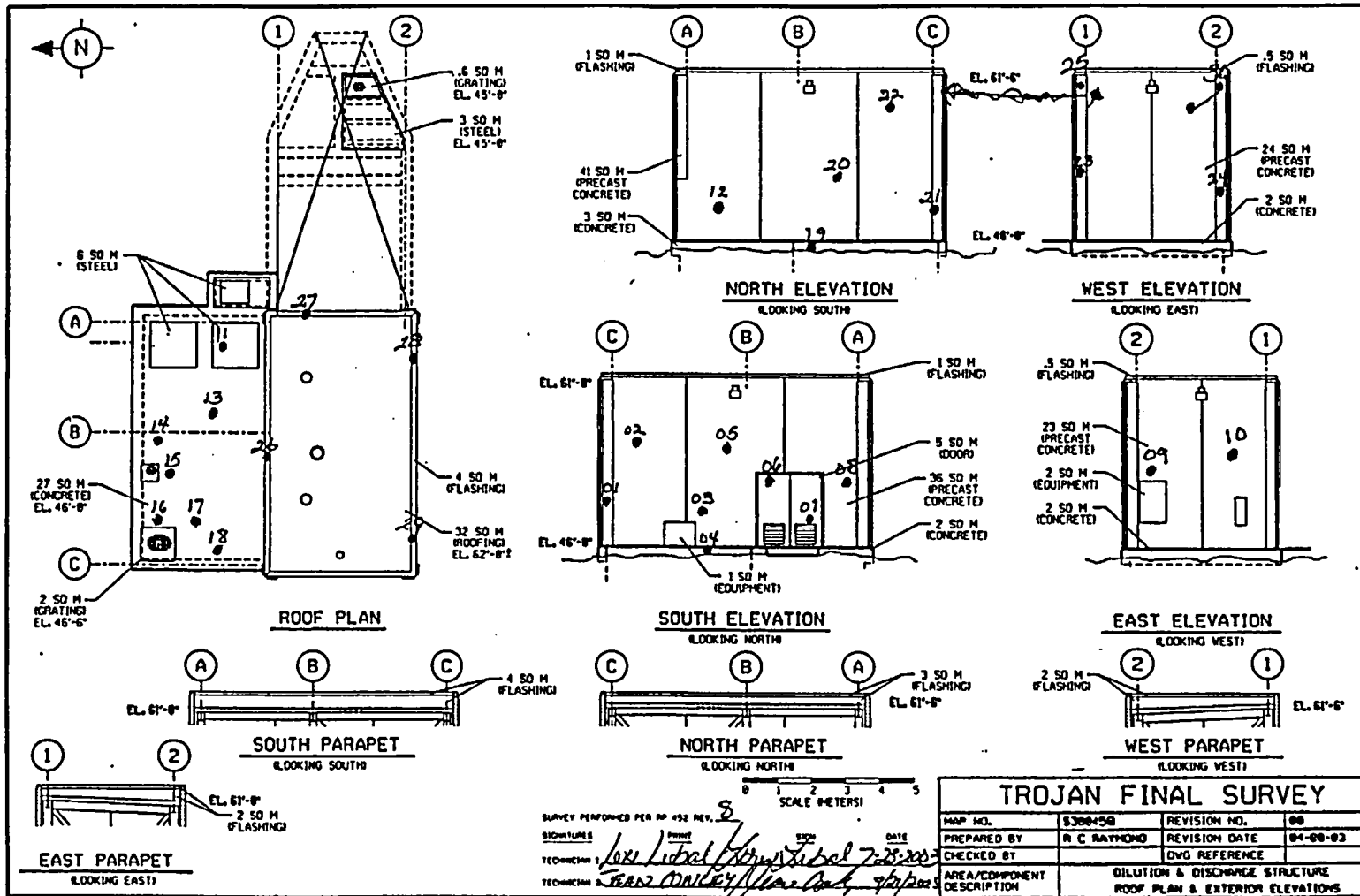
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S38045B
 Survey Unit Name: Discharge and Dilution Structure Exterior

Classification: Class 3
 Size (m²): 228

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S41029A
 Survey Unit Name: Circulating Water Pump Pit Walls,
 Floor, Grating, and Equipment

Classification: Class 3
 Size (m²): 1,050

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	36	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 4.875e+002
 Maximum Value : 1.394e+003
 Range : 9.065e+002
 Median : 1.043e+003
 Std. Deviation : 2.539e+002
 Mean : 9.962e+002
 95% UCL : 1.068e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	1.068e+003	000018	8.823e+002	000035	7.534e+002
000002	1.088e+003	000019	9.024e+002	000036	9.709e+002
000003	1.088e+003	000020	1.039e+003		
000004	1.047e+003	000021	8.621e+002		
000005	1.241e+003	000022	1.249e+003		
000006	5.318e+002	000023	1.197e+003		
000007	1.257e+003	000024	1.257e+003		
000008	1.152e+003	000025	1.015e+003		
000009	5.519e+002	000026	8.702e+002		
000010	7.050e+002	000027	1.362e+003		
000011	9.387e+002	000028	6.688e+002		
000012	8.057e+002	000029	4.875e+002		
000013	8.581e+002	000030	4.875e+002		
000014	1.160e+003	000031	1.128e+003		
000015	1.394e+003	000032	8.903e+002		
000016	1.144e+003	000033	1.197e+003		
000017	1.257e+003	000034	1.358e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S41029A
Survey Unit Name: Circulating Water Pump Pit Walls,
 Floor, Grating, and Equipment

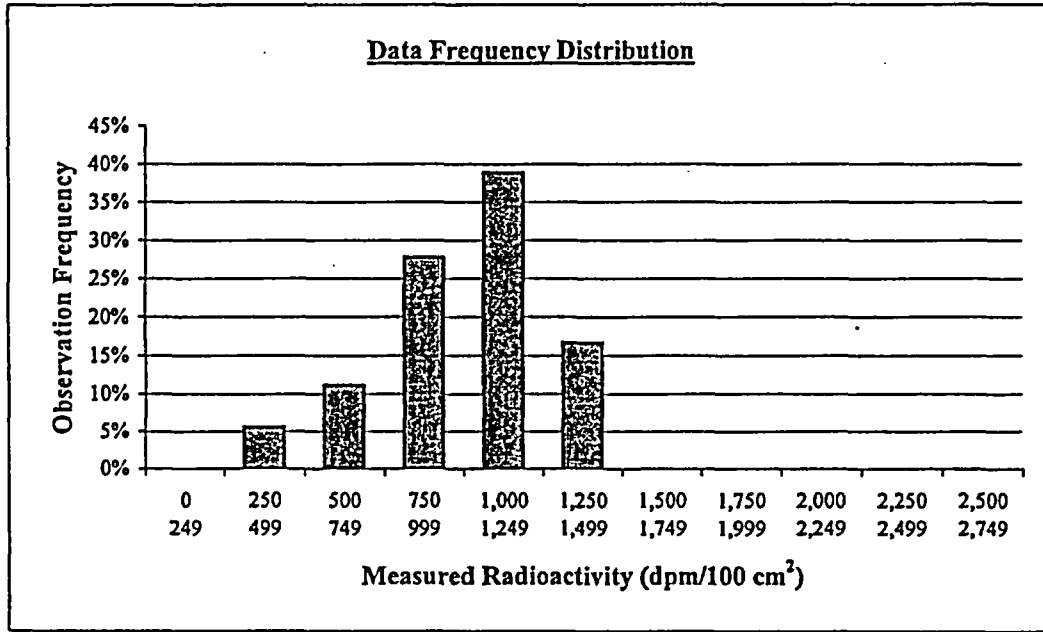
Classification: Class 3
Size (m²): 1,050

Measurement Data Statistical Evaluation

Statistical Comparisons			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	906	1,269	Pass
Median	0.184	0.500	Pass
Mean	996	10,500	Pass
Std Dev	254	4,200	Pass

All data less than DCGL; Sign statistical test not required.

Statistical Quantities	
Range:	906
Median:	1,043
Mean:	996
Std Dev:	254
Minimum:	488
Maximum:	1,394
DCGL:	21,000



Plot Parameters	
# of measurements:	36
# of intervals:	11
Interval increment:	250
Minimum:	0
Maximum:	2,749

Comment:
 NONE

Interval	High End	Low End	Number of Observations	Observation Frequency
1	249	0	0	0%
2	499	250	2	6%
3	749	500	4	11%
4	999	750	10	28%
5	1,249	1,000	14	39%
6	1,499	1,250	6	17%
7	1,749	1,500	0	0%
8	1,999	1,750	0	0%
9	2,249	2,000	0	0%
10	2,499	2,250	0	0%
11	2,749	2,500	0	0%
Total:			36	100%

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S41029A

Classification: Class 3

Survey Unit Name: Circulating Water Pump Pit Walls,
Floor, Grating, and Equipment

Size (m²): 1,050

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 5

Measurement Units: dpm/100cm²

Investigation Level: 21,000

Minimum Value: 801

Maximum Value: 3,813

Measurement Type: Removable Beta

Number of Measurements: 36

Measurement Units: dpm/100cm²

Investigation Level: 2,100

Minimum Value: 3

Maximum Value: 23

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

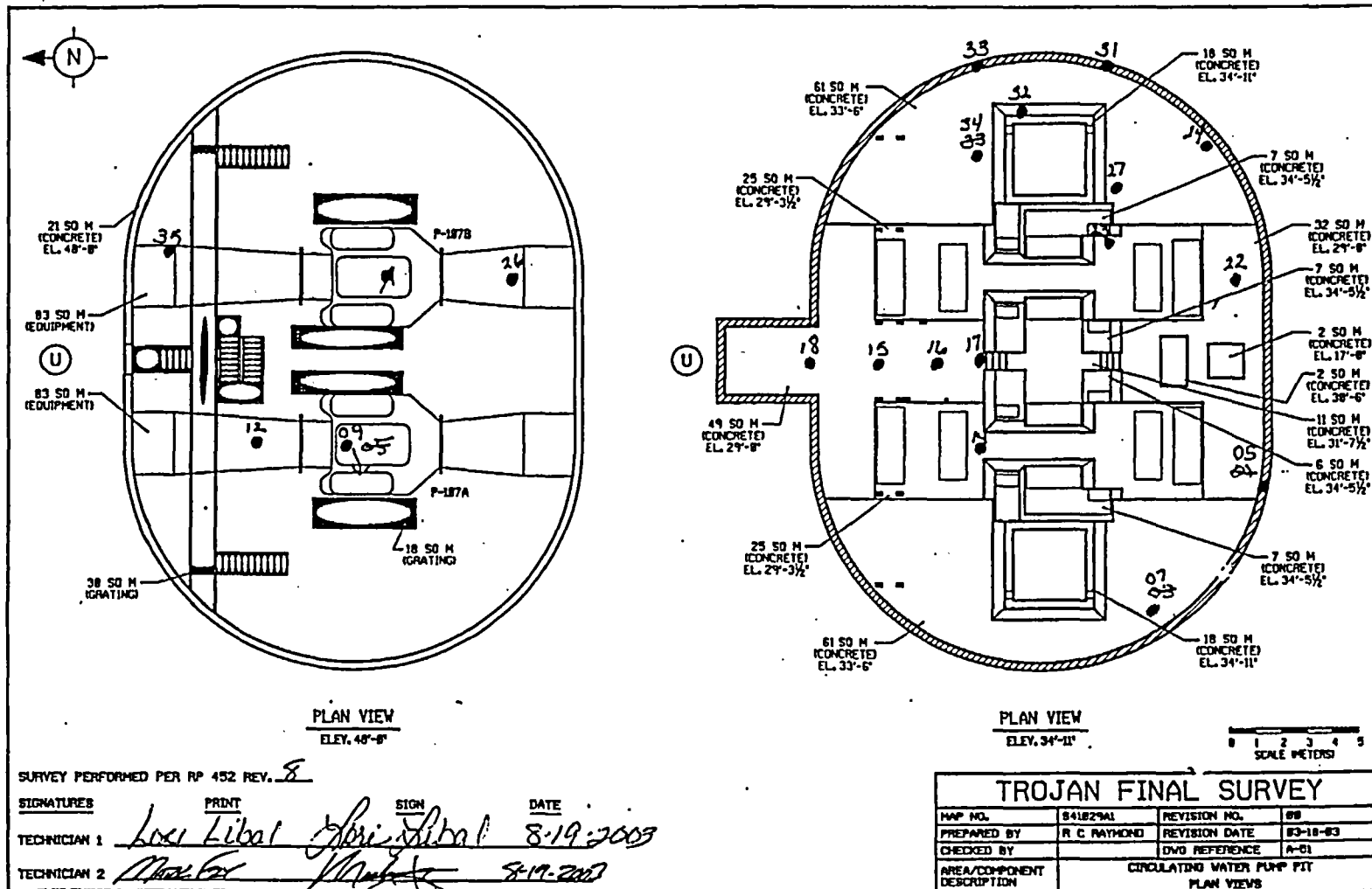
Survey Unit ID Code: S41029A

Survey Unit Name: Circulating Water Pump Pit Walls, Floor, Grating, and Equipment

Classification: Class 3

Size (m²): 1,050

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 8

SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	Lois Libal	<i>[Signature]</i>	8-19-2003
TECHNICIAN 2	<i>[Signature]</i>	<i>[Signature]</i>	8-19-2003

FINAL SURVEY RESULTS SUMMARY

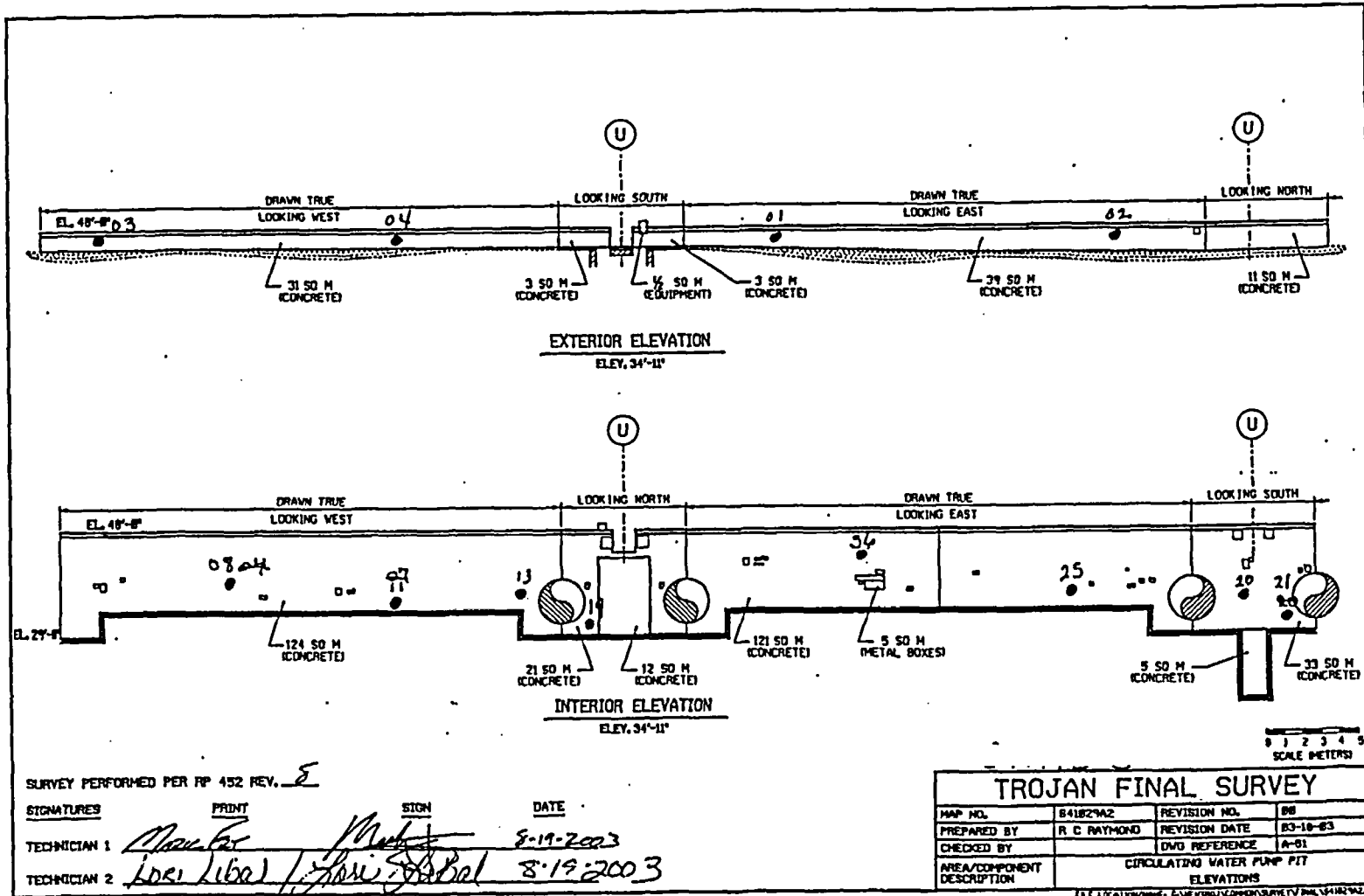
Survey Unit ID Code: S41029A

Survey Unit Name: Circulating Water Pump Pit Walls, Floor, Grating, and Equipment

Classification: Class 3

Size (m²): 1,050

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

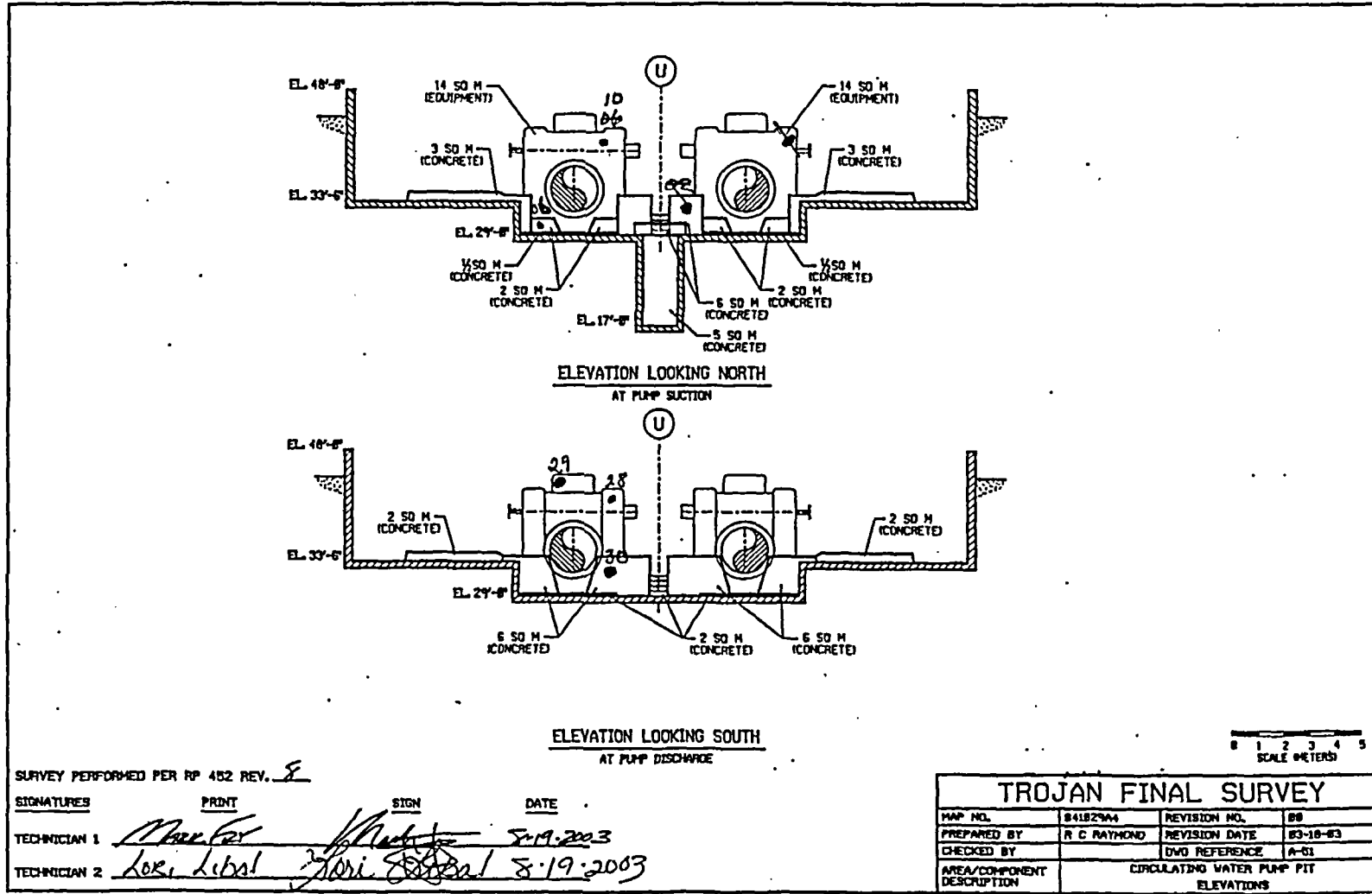
Survey Unit ID Code: S41029A

Survey Unit Name: Circulating Water Pump Pit Walls, Floor, Grating, and Equipment

Classification: Class 3

Size (m²): 1,050

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 8

SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	<i>Mark Fox</i>	<i>[Signature]</i>	8-19-2003
TECHNICIAN 2	<i>Lori Libal</i>	<i>[Signature]</i>	8-19-2003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S42045A Classification: Class 3
 Survey Unit Name: Transformers, Dividing Walls, and Equipment Size (m²): 2,826

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 5.866e+002
 Maximum Value : 2.155e+003
 Range : 1.568e+003
 Median : 1.242e+003
 Std. Deviation : 4.033e+002
 Mean : 1.248e+003
 95% UCL : 1.373e+003

Measurement Values

Location	Value	Location	Value
000001	5.866e+002	000018	1.434e+003
000002	1.150e+003	000019	1.411e+003
000003	1.223e+003	000020	9.087e+002
000004	8.972e+002	000021	1.005e+003
000005	8.588e+002	000022	1.361e+003
000006	8.243e+002	000023	1.549e+003
000007	6.978e+002	000024	2.155e+003
000008	7.170e+002	000025	2.090e+003
000009	1.311e+003	000026	1.710e+003
000010	1.261e+003	000027	1.618e+003
000011	8.703e+002	000028	1.100e+003
000012	7.055e+002	000029	1.215e+003
000013	1.215e+003	000030	1.388e+003
000014	1.419e+003		
000015	1.445e+003		
000016	1.422e+003		
000017	1.902e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S42045A

Classification: Class 3

Survey Unit Name: Transformers, Dividing Walls, and Equipment

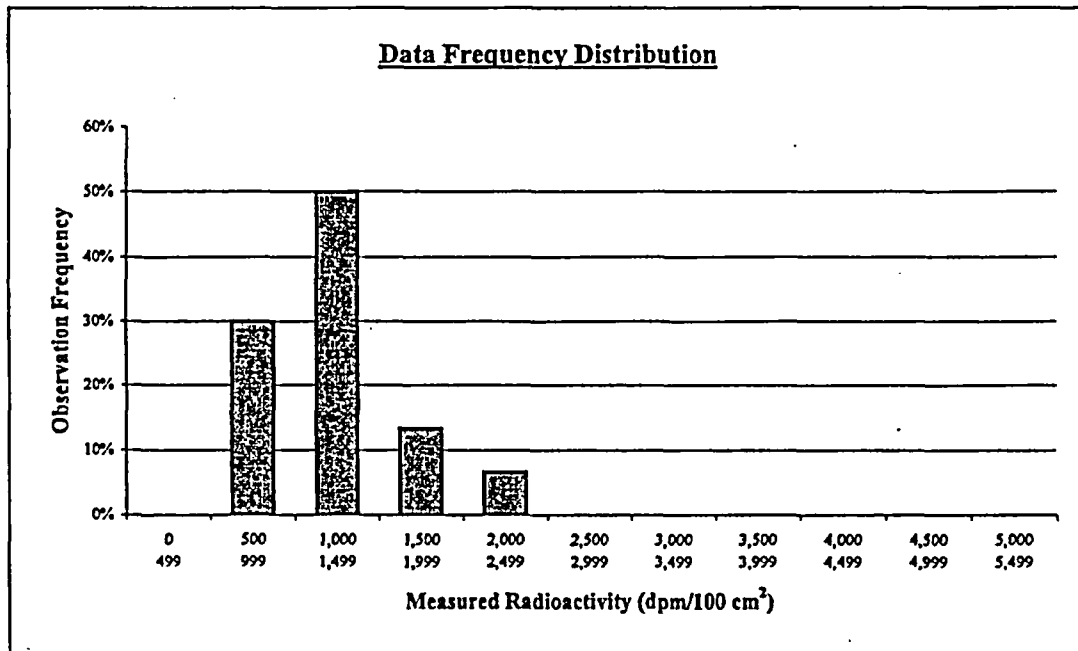
Size (m²): 2,826

Measurement Data Statistical Evaluation

Statistical Comparisons			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	1,568	2,017	Pass
Median	0.016	0.500	Pass
Mean	1,248	10,500	Pass
Std Dev	403	4,200	Pass

Statistical Quantities	
Range:	1,568
Median:	1,242
Mean:	1,248
Std Dev:	403
Minimum:	587
Maximum:	2,155
DCGL:	21,000

All data less than DCGL; Sign statistical test not required.



Plot Parameters	
# of measurements:	30
# of intervals:	11
Interval increment:	500
Minimum:	0
Maximum:	5,499

Comment:
NONE

Interval	High End	Low End	Number of Observations	Observation Frequency
1	499	0	0	0%
2	999	500	9	30%
3	1,499	1,000	15	50%
4	1,999	1,500	4	13%
5	2,499	2,000	2	7%
6	2,999	2,500	0	0%
7	3,499	3,000	0	0%
8	3,999	3,500	0	0%
9	4,499	4,000	0	0%
10	4,999	4,500	0	0%
11	5,499	5,000	0	0%
Total:			30	100%

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S42045A **Classification:** Class 3
Survey Unit Name: Transformers, Dividing Walls, and Equipment **Size (m²):** 2,826

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta	Scan Coverage (%): 2
Measurement Units: dpm/100cm ²	Investigation Level: 21,000
Minimum Value: 808	Maximum Value: 1,919

Measurement Type: Removable Beta	Number of Measurements: 30
Measurement Units: dpm/100cm ²	Investigation Level: 2,100
Minimum Value: 43	Maximum Value: 85

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

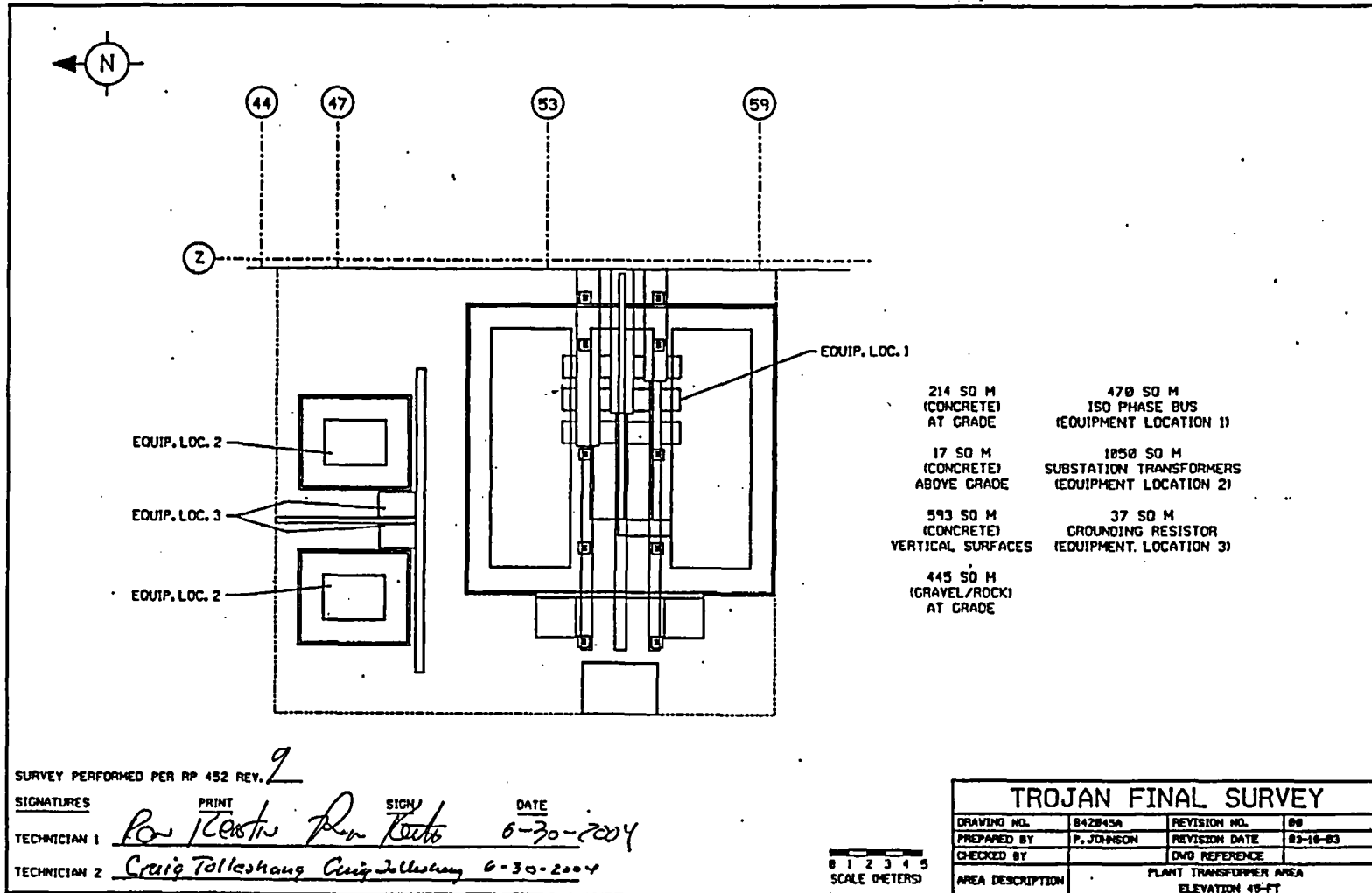
Survey Unit ID Code: S42045A

Survey Unit Name: Transformers, Dividing Walls, and Equipment

Classification: Class 3

Size (m²): 2,826

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

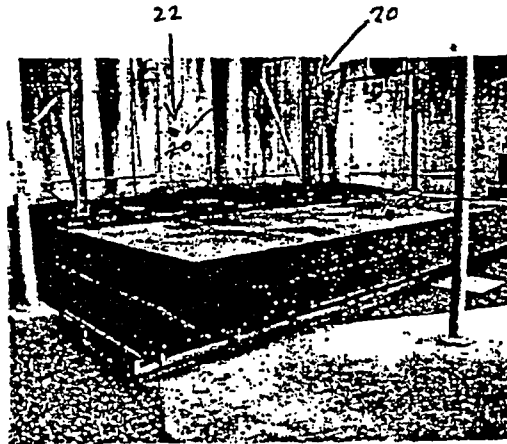
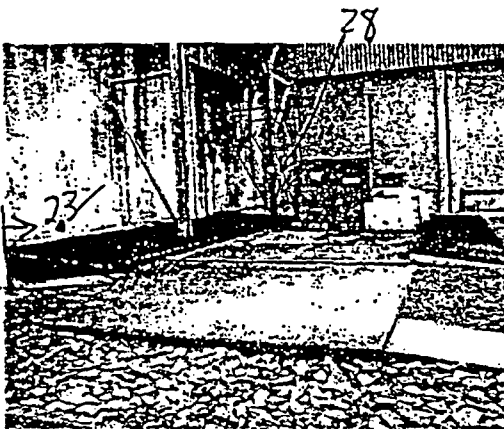
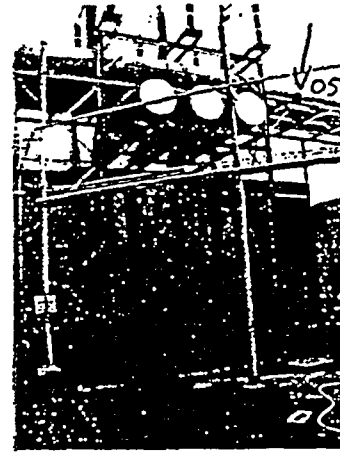
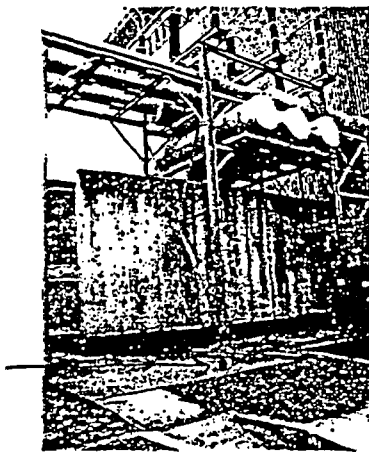
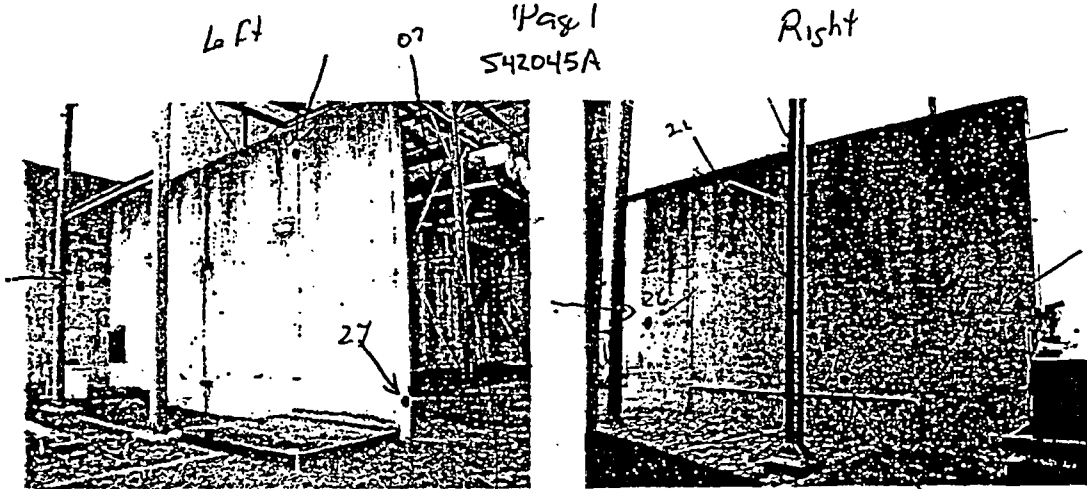
Survey Unit ID Code: S42045A

Classification: Class 3

Survey Unit Name: Transformers, Dividing Walls, and Equipment

Size (m²): 2,826

Static Measurement Locations Map



FOR KEVIN FOR KEVIN 6/20/2004

CRAIG TOLLESHAUS Craig Tolleshaus 6/30/2004

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S42045A

Classification: Class 3

Survey Unit Name: Transformers, Dividing Walls, and Equipment

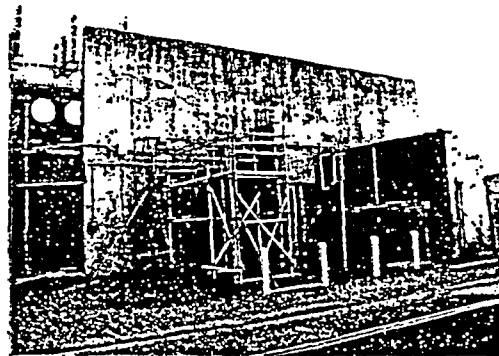
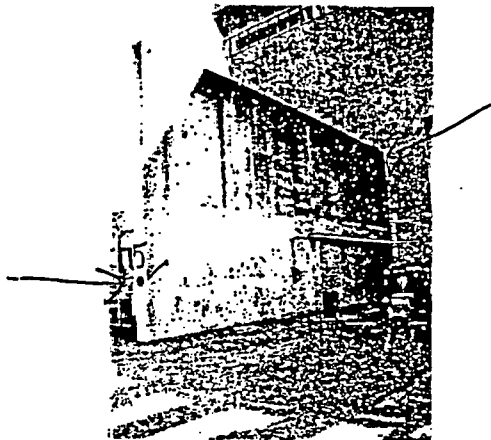
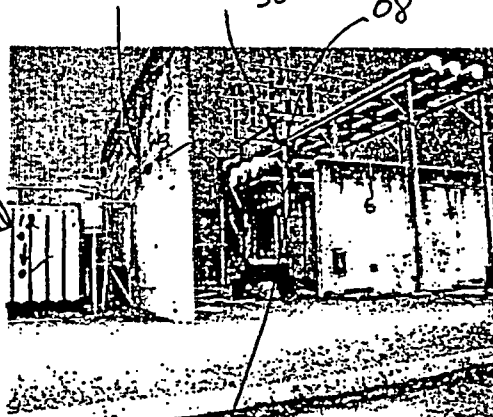
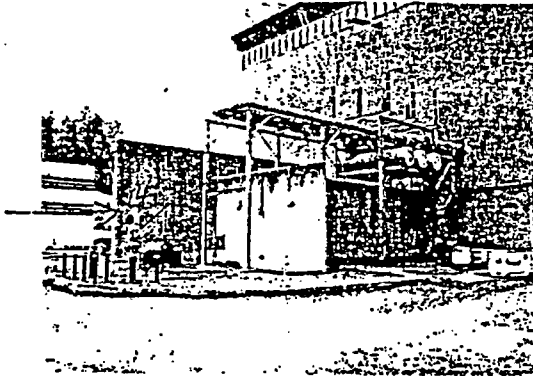
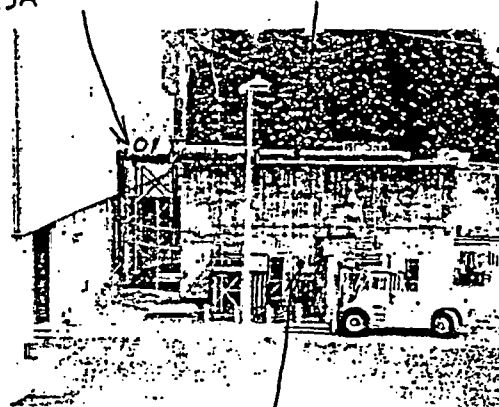
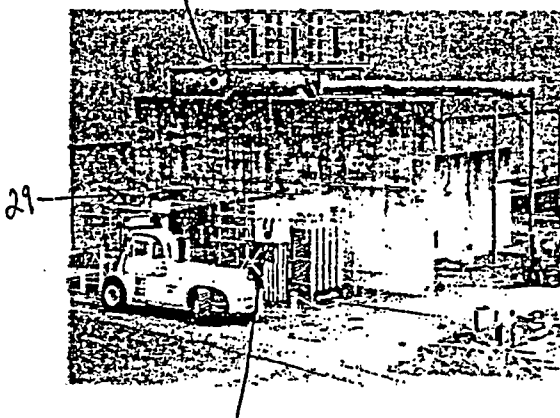
Size (m²): 2,826

Static Measurement Locations Map

Left

Page #
S42045A

Right



Ron Keaton Ron Keaton 6-30-2004 Craig Tellehaug 6/30/2004
Craig Zeller

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S43020A
 Survey Unit Name: Oily Water Separator
 (Formerly Identified as P62065A)

Classification: Class 2
 Size (m²): 397

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 1.811e+003
 Maximum Value : 3.156e+003
 Range : 1.345e+003
 Median : 2.152e+003
 Std. Deviation : 2.558e+002
 Mean : 2.191e+003
 95% UCL : 2.270e+003

Measurement Values

Location	Value	Location	Value
000001	2.207e+003	000018	2.195e+003
000002	2.486e+003	000019	1.997e+003
000003	2.232e+003	000020	2.251e+003
000004	1.959e+003	000021	2.040e+003
000005	2.090e+003	000022	1.978e+003
000006	1.873e+003	000023	2.083e+003
000007	2.170e+003	000024	2.294e+003
000008	2.139e+003	000025	2.108e+003
000009	2.164e+003	000026	1.811e+003
000010	1.990e+003	000027	2.344e+003
000011	2.083e+003	000028	2.598e+003
000012	2.083e+003	000029	2.251e+003
000013	2.226e+003	000030	3.156e+003
000014	2.393e+003		
000015	2.462e+003		
000016	2.077e+003		
000017	1.990e+003		

FINAL SURVEY RESULTS SUMMARY

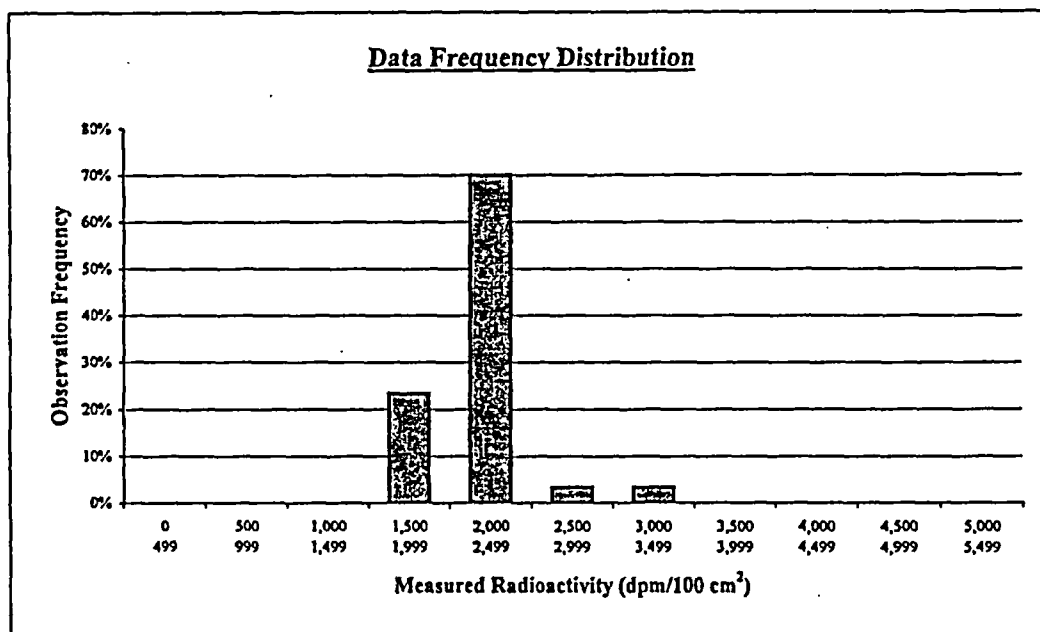
Survey Unit ID Code: S43020A
 Survey Unit Name: Oily Water Separator
 (Formerly Identified as P62065A)

Classification: Class 2
 Size (m²): 397

Measurement Data Statistical Evaluation

Statistical Comparisons				Statistical Quantities	
Test	Calculated Value	Acceptance Criteria	Acceptable?		
Range	1,345	1,279	See comment below	Range:	1,345
Median	0.154	0.500	Pass	Median:	2,152
Mean	2,191	21,000	Pass	Mean:	2,191
Std Dev	256	4,200	Pass	Std Dev:	256
				Minimum:	1,811
				Maximum:	3,156
				DCGL:	21,000

All data less than DCGL; Sign statistical test not required.



Plot Parameters		Interval	High End	Low End	Number of Observations	Observation Frequency
# of measurements:	30	1	499	0	0	0%
# of intervals:	11	2	999	500	0	0%
Interval increment:	500	3	1,499	1,000	0	0%
Minimum:	0	4	1,999	1,500	7	23%
Maximum:	5,499	5	2,499	2,000	21	70%
		6	2,999	2,500	1	3%
		7	3,499	3,000	1	3%
		8	3,999	3,500	0	0%
		9	4,499	4,000	0	0%
		10	4,999	4,500	0	0%
		11	5,499	5,000	0	0%
		Total:			30	100%

Comment:
 Range failure is a test artifact due to a single measurement value exceeding 3100 dpm, with the other 29 values less than 2600 dpm, resulting in a range value that is slightly greater than 5 times the standard deviation. All values are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S43020A
Survey Unit Name: Oily Water Separator
(Formerly Identified as P62065A)

Classification: Class 2
Size (m²): 397

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 1,458

Scan Coverage (%): 30
Investigation Level: 21,000
Maximum Value: 3,514

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 50

Number of Measurements: 30
Investigation Level: 2,100
Maximum Value: 82

Discussion of Anomalous Measurement Data

Investigation Summary

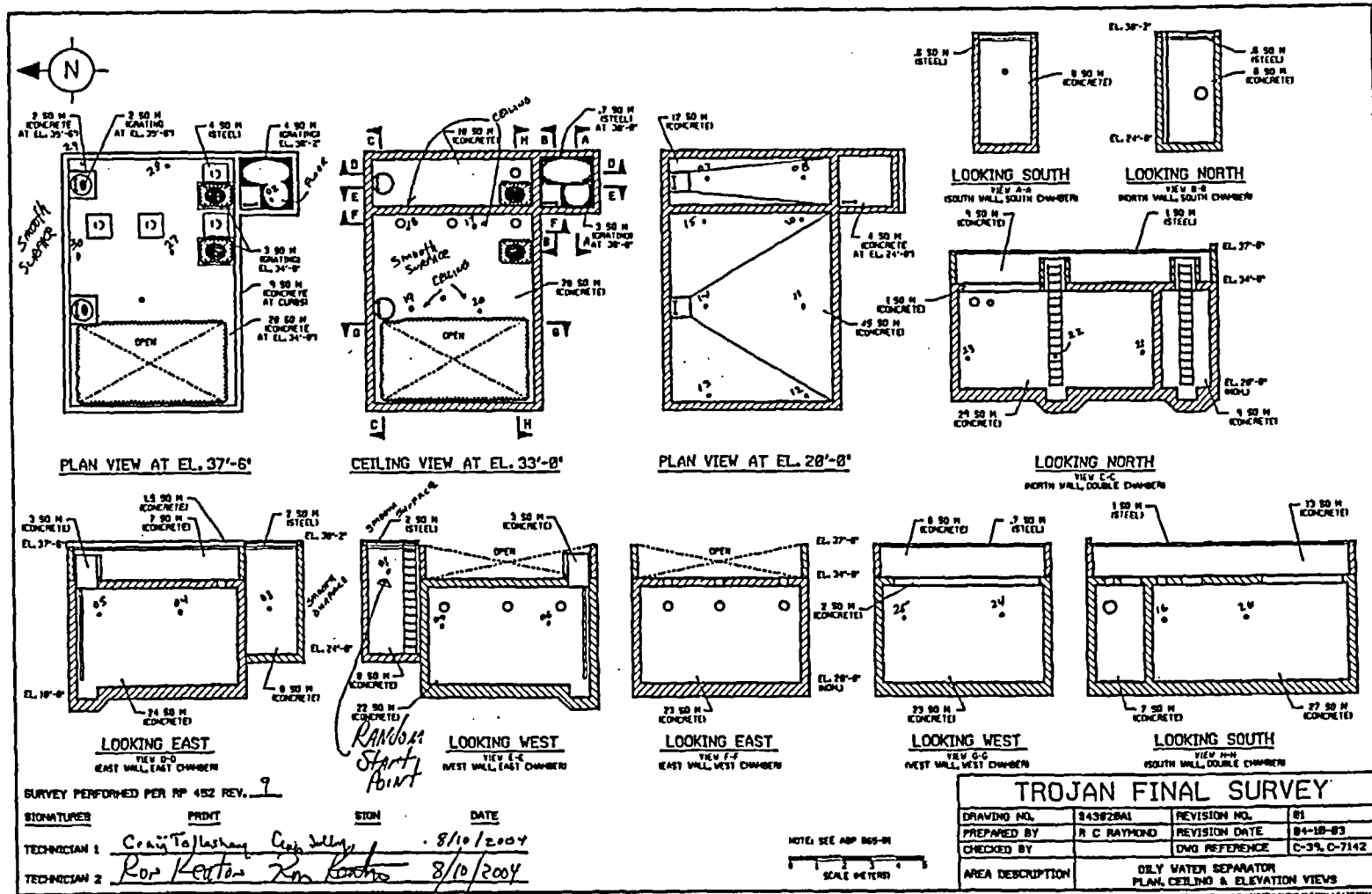
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S43020A
 Survey Unit Name: Oily Water Separator (Formerly Identified as P62065A)

Classification: Class 2
 Size (m²): 397

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S44045B
 Survey Unit Name: Gas Bottle Storage Building Exterior
 Walls and Roof

Classification: Class 3
 Size (m²): 474

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 7.019e+002
 Maximum Value : 1.268e+003
 Range : 5.661e+002
 Median : 9.592e+002
 Std. Deviation : 1.944e+002
 Mean : 9.711e+002
 95% UCL : 1.031e+003

Measurement Values

Location	Value	Location	Value
000001	8.615e+002	000018	1.256e+003
000002	7.019e+002	000019	1.029e+003
000003	8.096e+002	000020	1.129e+003
000004	7.617e+002	000021	1.001e+003
000005	7.617e+002	000022	9.651e+002
000006	7.338e+002	000023	1.252e+003
000007	8.176e+002	000024	1.105e+003
000008	7.418e+002	000025	1.256e+003
000009	1.212e+003	000026	9.532e+002
000010	9.492e+002	000027	1.161e+003
000011	7.219e+002	000028	1.268e+003
000012	7.777e+002	000029	1.073e+003
000013	8.056e+002	000030	1.188e+003
000014	9.452e+002		
000015	7.259e+002		
000016	1.192e+003		
000017	9.771e+002		

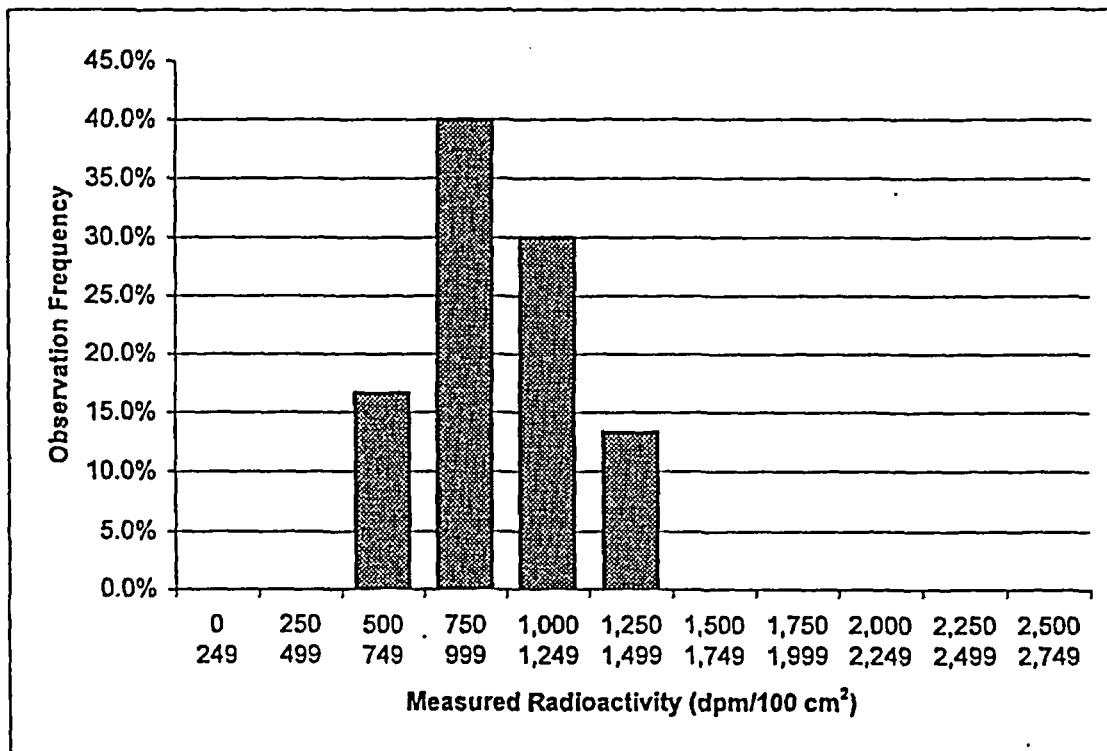
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S44045B
Survey Unit Name: Gas Bottle Storage Building Exterior
 Walls and Roof

Classification: Class 3
Size (m²): 474

Measurement Data Statistical Evaluation

Statistical Quantities Tests				Statistical Quantities	
Test	Value	Criteria	Acceptable?		
Range	566	972	Pass	Range:	566
Median	0.063	0.500	Pass	Median:	959
Mean	971	10,500	Pass	Mean:	971
Std Dev	194	4,200	Pass	Std Dev:	194
				Minimum:	702
				Maximum:	1,268
				DCGL:	21,000



Plot Parameters		Interval	High	Low	Number	Frequency
# of measurements:	30	1	249	0	0	0.0%
# of intervals:	11	2	499	250	0	0.0%
Interval increment:	250	3	749	500	5	16.7%
Minimum:	0	4	999	750	12	40.0%
Maximum:	2,749	5	1,249	1,000	9	30.0%
		6	1,499	1,250	4	13.3%
		7	1,749	1,500	0	0.0%
		8	1,999	1,750	0	0.0%
		9	2,249	2,000	0	0.0%
		10	2,499	2,250	0	0.0%
		11	2,749	2,500	0	0.0%
Total:					30	100%

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S44045B

Classification: Class 3

Survey Unit Name: Gas Bottle Storage Building Exterior
Walls and Roof

Size (m²): 474

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 2

Measurement Units: dpm/100cm²

Investigation Level: 21,000

Minimum Value: 832

Maximum Value: 1,801

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

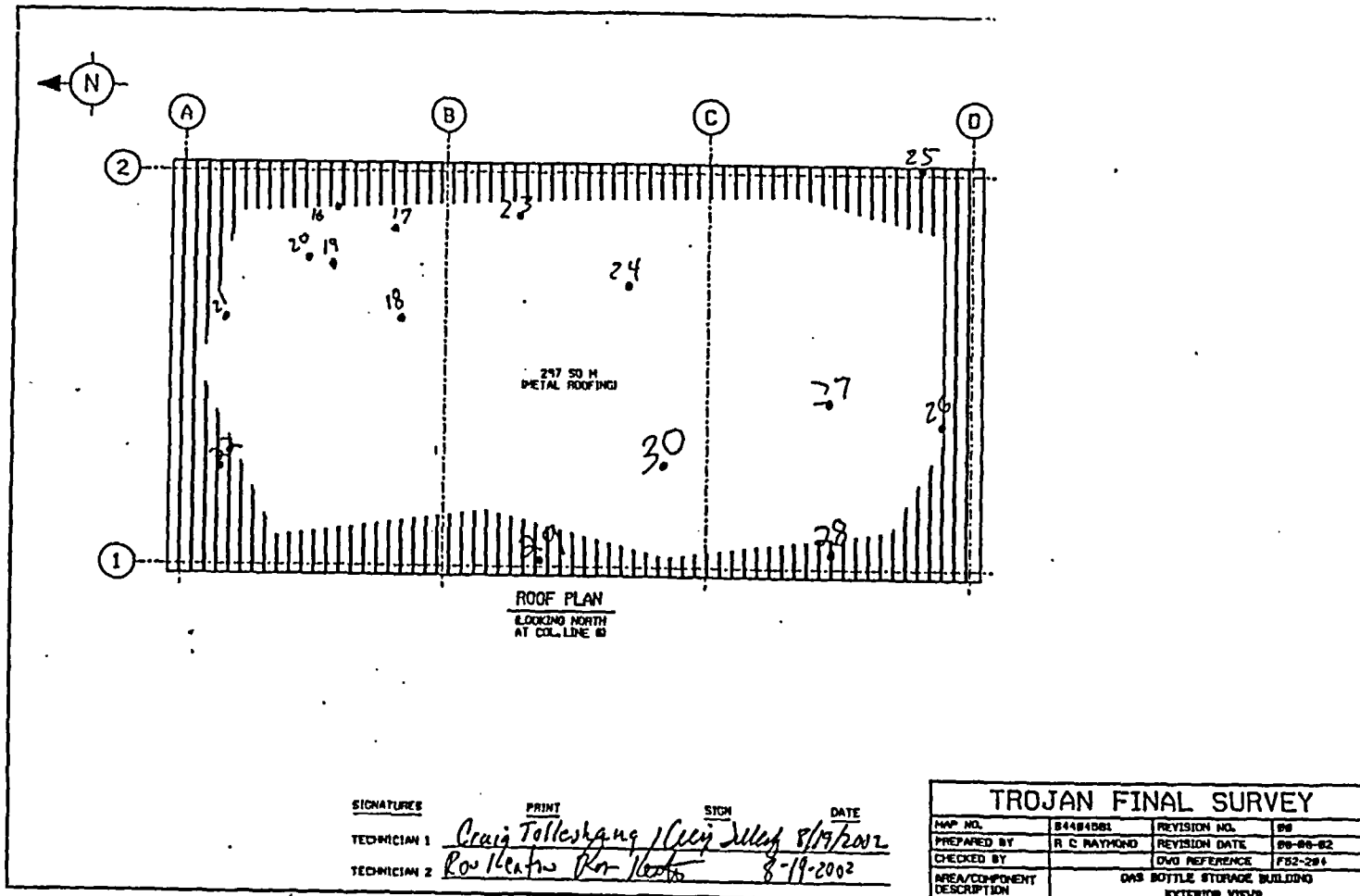
Survey Unit ID Code: S44045B

Survey Unit Name: Gas Bottle Storage Building Exterior Walls and Roof

Classification: Class 3

Size (m²): 474

Static Measurement Locations Map



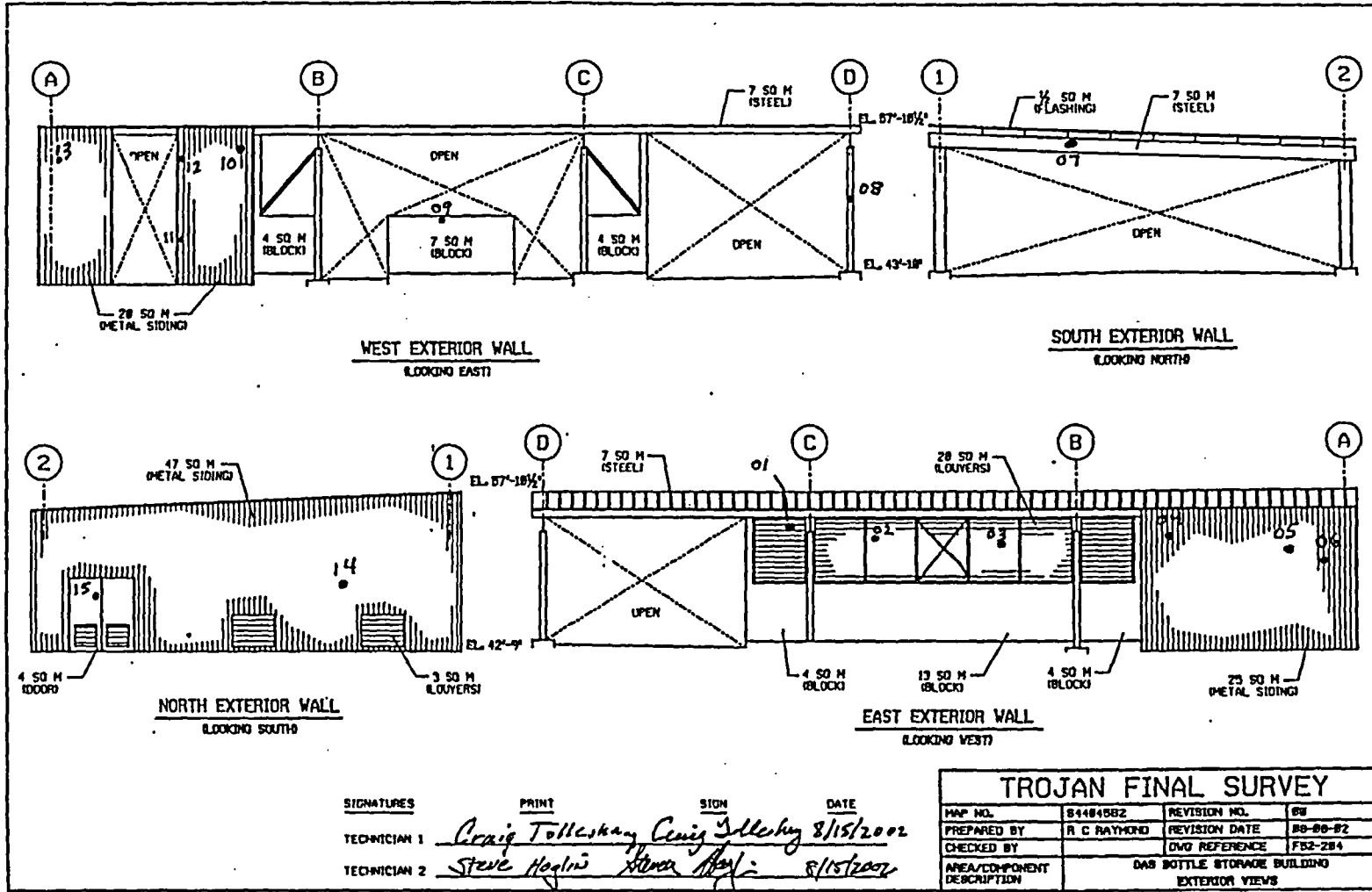
Lois Libal / Steve Libal STATICS 9-19-2002

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S44045B
 Survey Unit Name: Gas Bottle Storage Building Exterior Walls and Roof

Classification: Class 3
 Size (m²): 474

Static Measurement Locations Map



SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	<i>Craig Tollesky</i>	<i>Craig Tollesky</i>	8/15/2002
TECHNICIAN 2	<i>Steve Haglin</i>	<i>Steve Haglin</i>	8/15/2002

TROJAN FINAL SURVEY			
MAP NO.	S44045B2	REVISION NO.	03
PREPARED BY	R C RAYMOND	REVISION DATE	08-08-02
CHECKED BY		DWG REFERENCE	FB2-284
AREA/COMPONENT DESCRIPTION	GAS BOTTLE STORAGE BUILDING EXTERIOR VIEWS		

FILE NAME/LOCATION: G:\VEHICLE\COMMON\SURVEY\DWG\S44045B2A-

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S45026A
 Survey Unit Name: Solids Settling Basin

Classification: Class 3
 Size (m²): 440

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 7.736e+002
 Maximum Value : 1.295e+003
 Range : 5.214e+002
 Median : 1.038e+003
 Std. Deviation : 1.225e+002
 Mean : 1.024e+003
 95% UCL : 1.062e+003

Measurement Values

Location	Value	Location	Value
000001	9.941e+002	000018	9.380e+002
000002	8.939e+002	000019	9.981e+002
000003	1.190e+003	000020	1.098e+003
000004	9.339e+002	000021	1.046e+003
000005	1.010e+003	000022	1.038e+003
000006	8.738e+002	000023	1.062e+003
000007	8.257e+002	000024	1.134e+003
000008	9.460e+002	000025	1.243e+003
000009	1.066e+003	000026	1.094e+003
000010	8.498e+002	000027	7.736e+002
000011	1.182e+003	000028	1.038e+003
000012	8.698e+002	000029	1.038e+003
000013	1.014e+003	000030	1.074e+003
000014	1.102e+003		
000015	1.295e+003		
000016	9.981e+002		
000017	1.102e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S45026A
Survey Unit Name: Solids Settling Basin

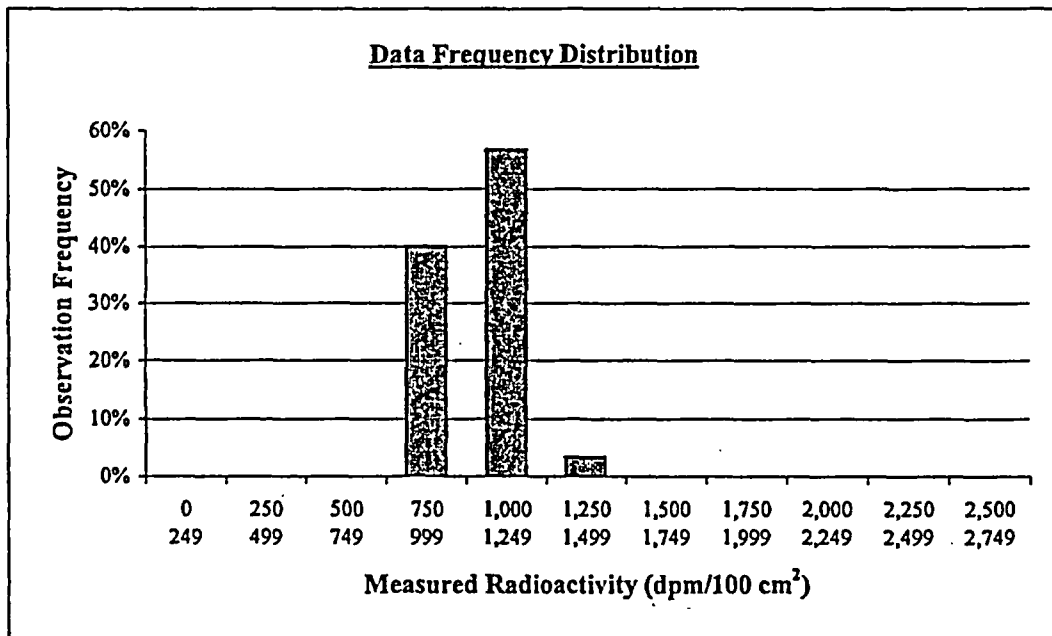
Classification: Class 3
Size (m²): 440

Measurement Data Statistical Evaluation

Statistical Comparisons			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	521	612	Pass
Median	0.114	0.500	Pass
Mean	1,024	10,500	Pass
Std Dev	122	4,200	Pass

All data less than DCGL; Sign statistical test not required.

Statistical Quantities	
Range:	521
Median:	1,038
Mean:	1,024
Std Dev:	122
Minimum:	774
Maximum:	1,295
DCGL:	21,000



Plot Parameters	
# of measurements:	30
# of intervals:	11
Interval increment:	250
Minimum:	0
Maximum:	2,749

Comment:

Interval	High End	Low End	Number of Observations	Observation Frequency
1	249	0	0	0%
2	499	250	0	0%
3	749	500	0	0%
4	999	750	12	40%
5	1,249	1,000	17	57%
6	1,499	1,250	1	3%
7	1,749	1,500	0	0%
8	1,999	1,750	0	0%
9	2,249	2,000	0	0%
10	2,499	2,250	0	0%
11	2,749	2,500	0	0%
Total:			30	100%

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S45026A
Survey Unit Name: Solids Settling Basin

Classification: Class 3
Size (m²): 440

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 1,275

Scan Coverage (%): 5
Investigation Level: 21,000
Maximum Value: 2,541

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 3

Number of Measurements: 30
Investigation Level: 2,100
Maximum Value: 20

Discussion of Anomalous Measurement Data

Investigation Summary

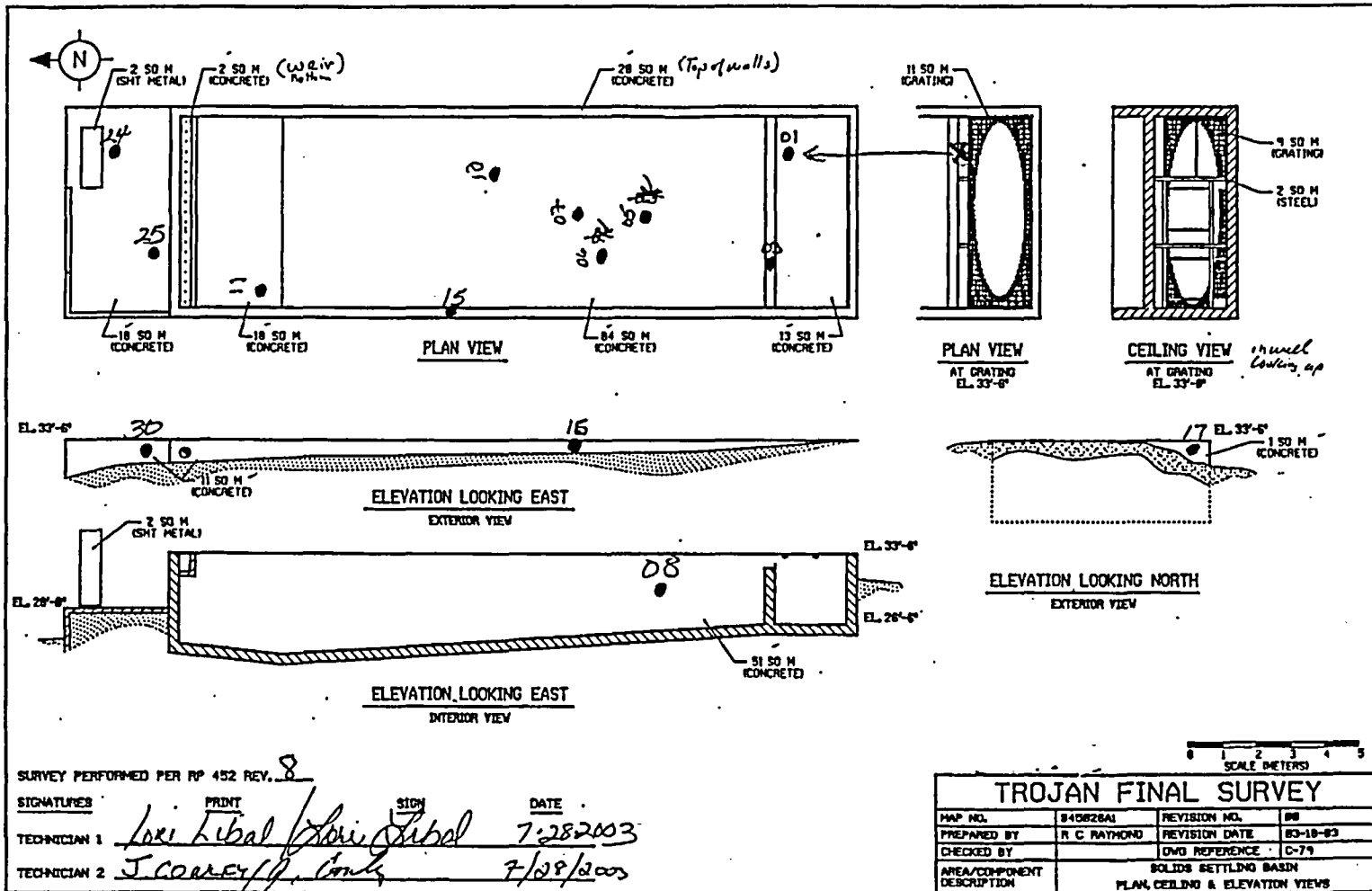
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S45026A
 Survey Unit Name: Solids Settling Basin

Classification: Class 3
 Size (m²): 440

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 8

SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	Lori Tubal	<i>Lori Tubal</i>	7/28/2003
TECHNICIAN 2	J. Cooney	<i>J. Cooney</i>	7/28/2003

TROJAN FINAL SURVEY			
MAP NO.	S45026A	REVISION NO.	00
PREPARED BY	R. C. RAYMOND	REVISION DATE	03-10-03
CHECKED BY		UMD REFERENCE	D-79
AREA/COMPONENT DESCRIPTION	SOLIDS SETTLING BASIN PLAN, CEILING & ELEVATION VIEWS		

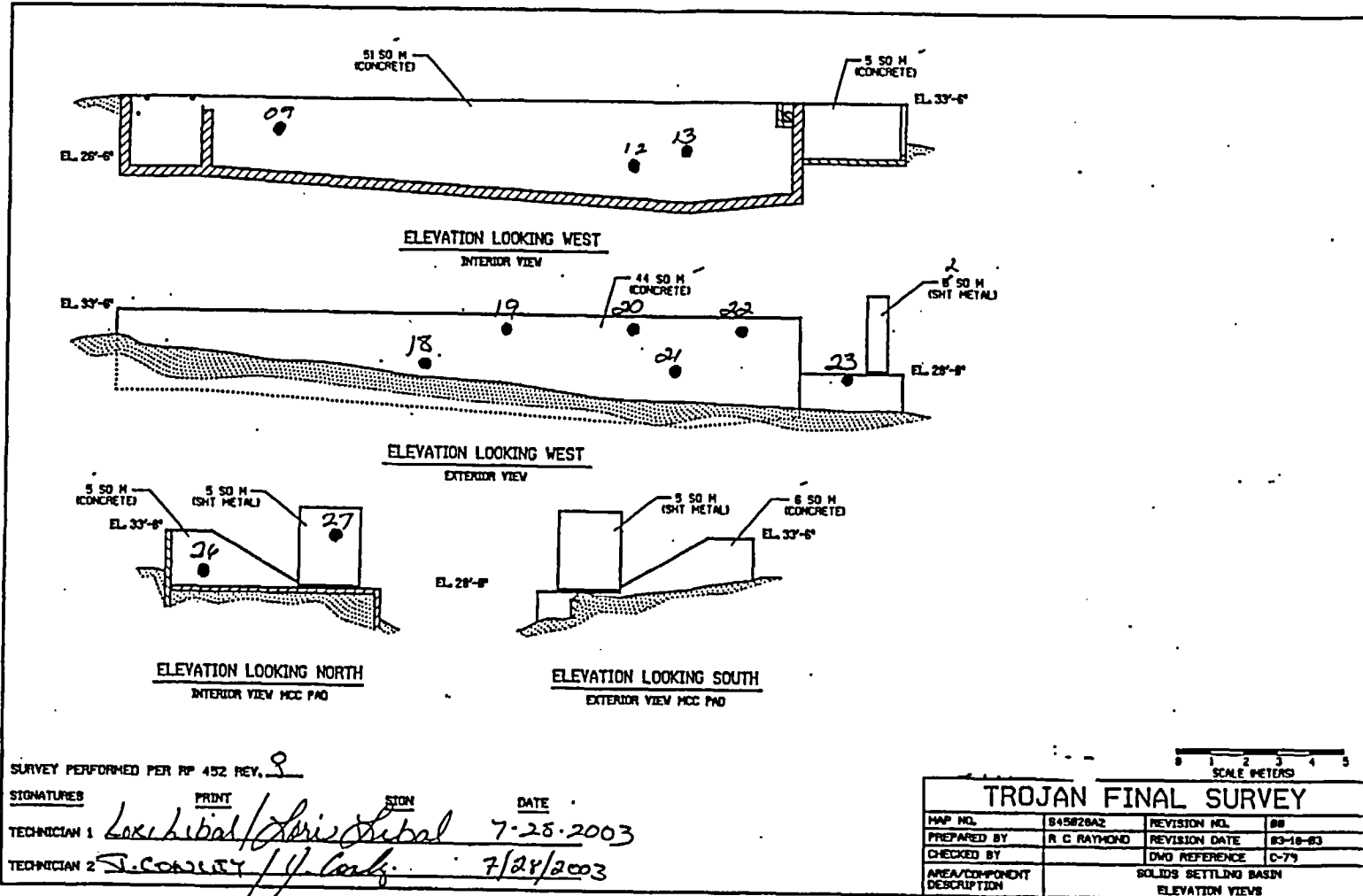
FILE LOCATION: \\P:\E\PROJECTS\2003\TROJAN\REPORTS\SURVEY\B-209.DWG

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S45026A
 Survey Unit Name: Solids Settling Basin

Classification: Class 3
 Size (m²): 440

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 9

SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	Lokubal / Chris Lokubal		7-25-2003
TECHNICIAN 2	S. Conley / J. Conley		7/24/2003

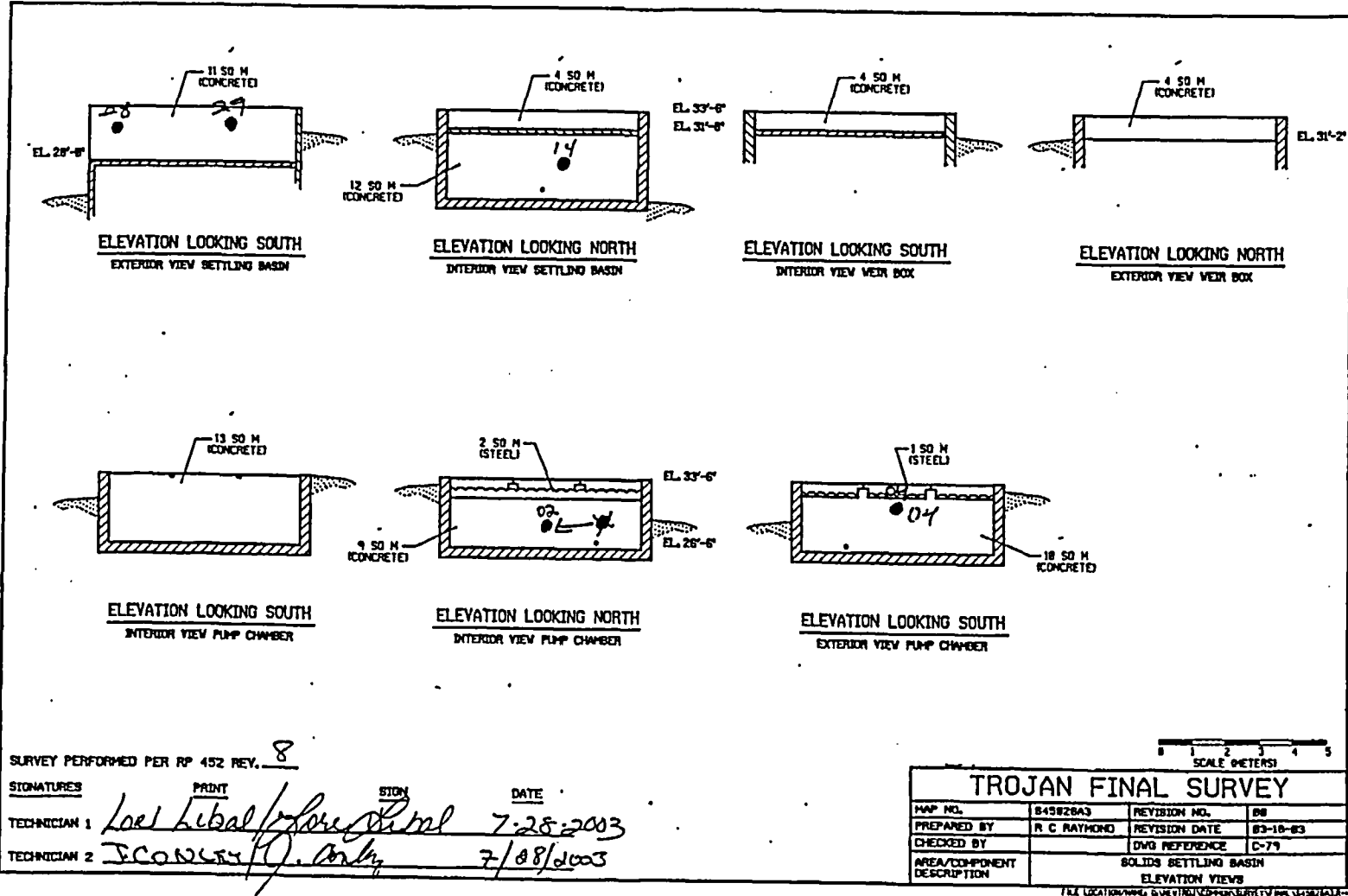
TROJAN FINAL SURVEY			
MAP NO.	S45026A2	REVISION NO.	00
PREPARED BY	R. C. RAYMOND	REVISION DATE	03-19-03
CHECKED BY		DWG REFERENCE	C-79
AREA/COMPONENT DESCRIPTION	SOLIDS SETTLING BASIN ELEVATION VIEWS		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S45026A
 Survey Unit Name: Solids Settling Basin

Classification: Class 3
 Size (m²): 440

Static Measurement Locations Map



APPENDIX C

SURVEY UNIT SUMMARY REPORTS – SUPPORT FACILITY INTERIORS

<u>Survey Unit ID Code</u>	<u>Page(s)</u>
S01025A	C-2 through C-5
S01025B.....	C-6 through C-9
S03045A	C-10 through C-15
S03045B.....	C-16 through C-21
S03045C.....	C-22 through C-26
S21023B.....	C-27 through C-35
S22045A	C-36 through C-41
S23032A	C-42 through C-52
S24038A	C-53 through C-69
S25045A	C-70 through C-80
S26045A	C-81 through C-86
S26045B.....	C-87 through C-92
S26073A	C-93 through C-96
S27045A	C-97 through C-103
S27045B.....	C-104 through C-107
S38045A	C-108 through C-114
S44045A	C-115 through C-121
S46025A	C-122 through C-125

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S01025A
 Survey Unit Name: Containment 25' Elevation -
 Tendon Gallery East Half

Classification: Class 2
 Size (m²): 807

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 9.471e+002
 Maximum Value : 1.258e+003
 Range : 3.109e+002
 Median : 1.044e+003
 Std. Deviation : 6.914e+001
 Mean : 1.054e+003
 95% UCL : 1.075e+003

Measurement Values

Location	Value	Location	Value
000001	1.007e+003	000018	1.089e+003
000002	9.771e+002	000019	1.022e+003
000003	1.093e+003	000020	1.029e+003
000004	1.146e+003	000021	1.138e+003
000005	1.074e+003	000022	1.044e+003
000006	1.056e+003	000023	1.164e+003
000007	1.044e+003	000024	1.037e+003
000008	1.149e+003	000025	1.067e+003
000009	1.063e+003	000026	9.733e+002
000010	9.958e+002	000027	9.471e+002
000011	1.089e+003	000028	1.037e+003
000012	9.509e+002	000029	1.078e+003
000013	9.584e+002	000030	1.033e+003
000014	1.063e+003		
000015	1.026e+003		
000016	1.007e+003		
000017	1.258e+003		

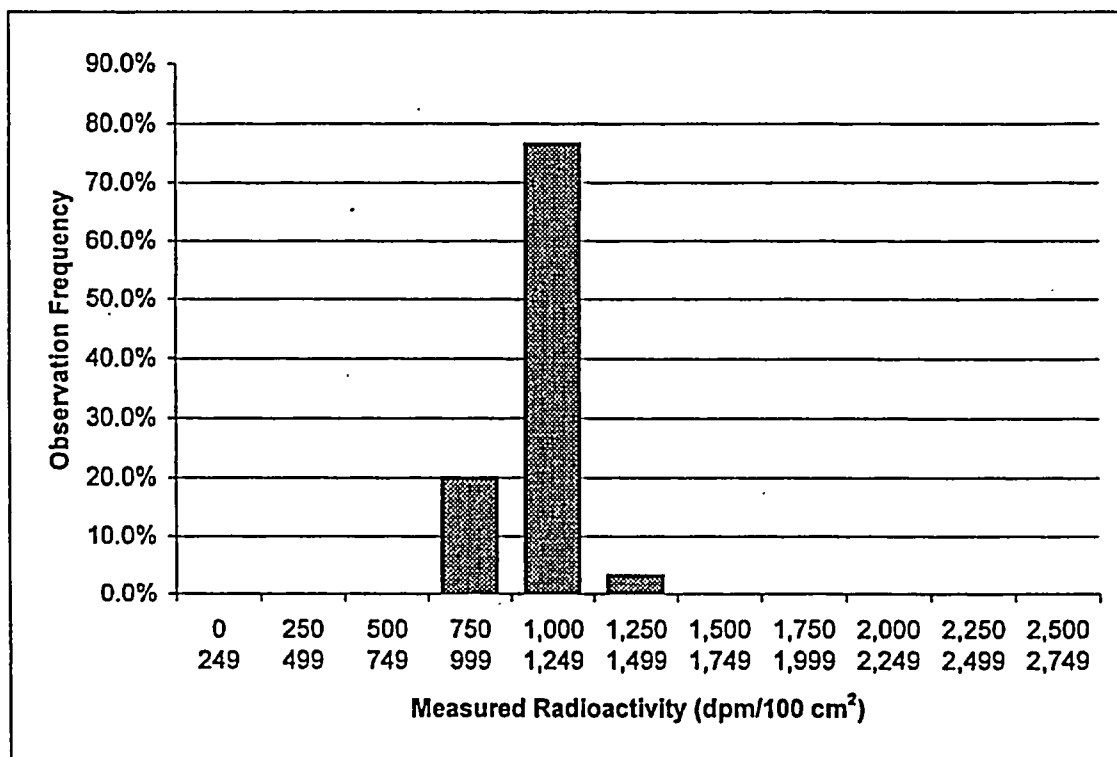
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S01025A
Survey Unit Name: Containment 25' Elevation –
 Tendon Gallery East Half

Classification: Class 2
Size (m²): 807

Measurement Data Statistical Evaluation

Statistical Quantities Tests				Statistical Quantities	
Test	Value	Criteria	Acceptable?		
Range	311	346	Pass	Range:	311
Median	0.142	0.500	Pass	Median:	1,044
Mean	1,054	16,800	Pass	Mean:	1,054
Std Dev	69	4,200	Pass	Std Dev:	69
				Minimum:	947
				Maximum:	1,258
				DCGL:	21,000



Plot Parameters		Interval	High	Low	Number	Frequency
# of measurements:	30	1	249	0	0	0.0%
# of intervals:	11	2	499	250	0	0.0%
Interval increment:	250	3	749	500	0	0.0%
Minimum:	0	4	999	750	6	20.0%
Maximum:	2,749	5	1,249	1,000	23	76.7%
		6	1,499	1,250	1	3.3%
		7	1,749	1,500	0	0.0%
		8	1,999	1,750	0	0.0%
		9	2,249	2,000	0	0.0%
		10	2,499	2,250	0	0.0%
		11	2,749	2,500	0	0.0%
		Total:			30	100%

Comment:
 NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S01025A

Classification: Class 2

Survey Unit Name: Containment 25' Elevation –
Tendon Gallery East Half

Size (m²): 807

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 12

Measurement Units: dpm/100cm²

Investigation Level: 21,000

Minimum Value: 1,116

Maximum Value: 1,699

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 2,100

Minimum Value: 5

Maximum Value: 18

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S01025A

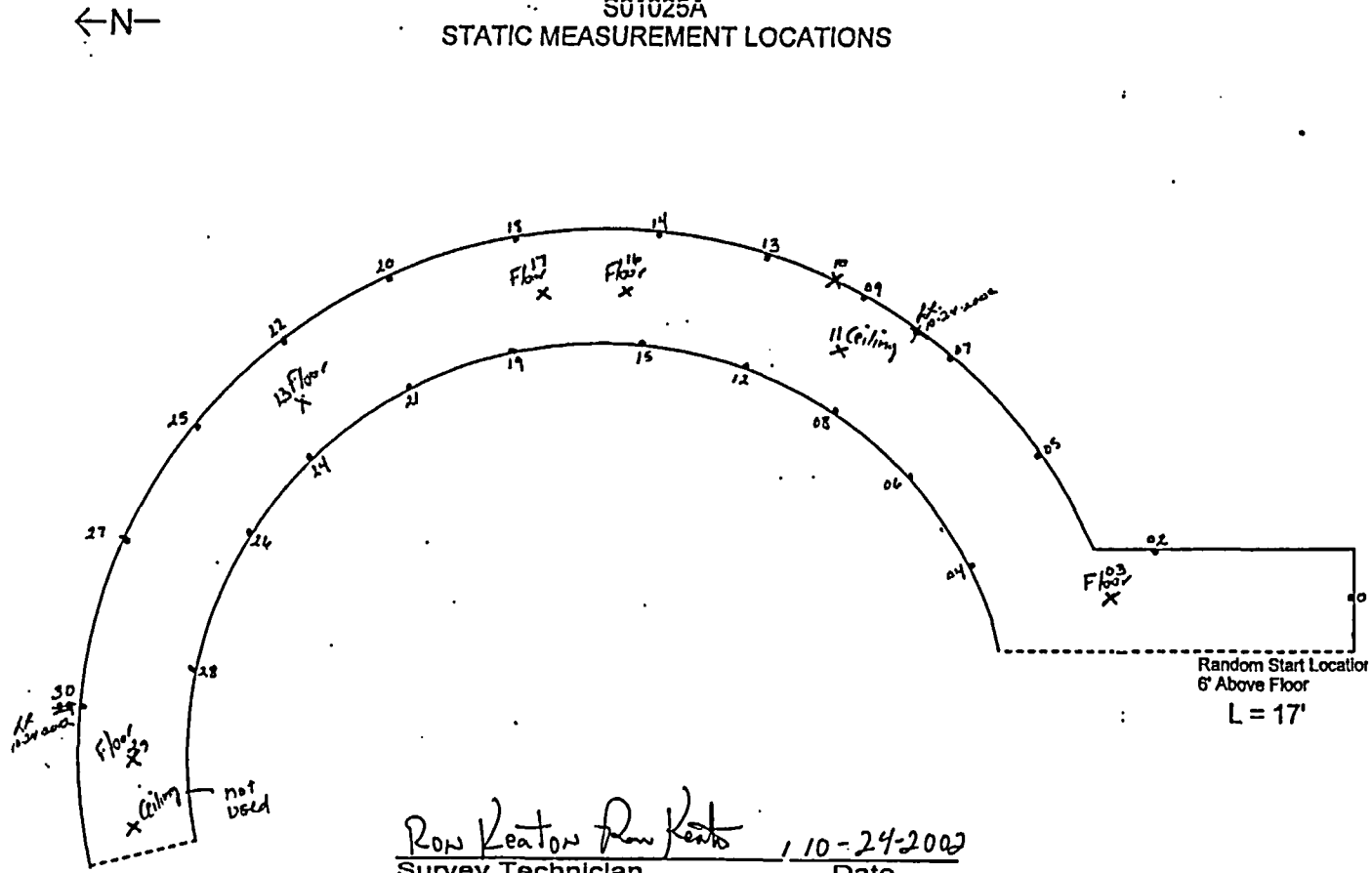
Survey Unit Name: Containment 25' Elevation - Tendon Gallery East Half

Classification: Class 2

Size (m²): 807

Static Measurement Locations Map

FINAL SURVEY UNIT
S01025A
STATIC MEASUREMENT LOCATIONS



Row Keaton Row Keaton 10-24-2002
Survey Technician Date

Loe Libal/Row Keaton 10-24-2002
Survey Technician Date

025Asml.cad

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S01025B
 Survey Unit Name: Containment 25' Elevation - Tendon
 Gallery West Half

Classification: Class 2
 Size (m²): 807

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 7.674e+002
 Maximum Value : 1.108e+003
 Range : 3.406e+002
 Median : 9.546e+002
 Std. Deviation : 7.372e+001
 Mean : 9.591e+002
 95% UCL : 9.819e+002

Measurement Values

Location	Value	Location	Value
000001	9.322e+002	000018	1.029e+003
000002	9.322e+002	000019	9.546e+002
000003	1.018e+003	000020	9.284e+002
000004	1.033e+003	000021	1.078e+003
000005	1.108e+003	000022	8.835e+002
000006	9.958e+002	000023	8.835e+002
000007	9.883e+002	000024	9.022e+002
000008	1.007e+003	000025	9.771e+002
000009	8.798e+002	000026	9.996e+002
000010	9.696e+002	000027	8.872e+002
000011	9.322e+002	000028	1.022e+003
000012	8.610e+002	000029	7.674e+002
000013	9.471e+002	000030	8.910e+002
000014	9.546e+002		
000015	9.996e+002		
000016	1.078e+003		
000017	9.322e+002		

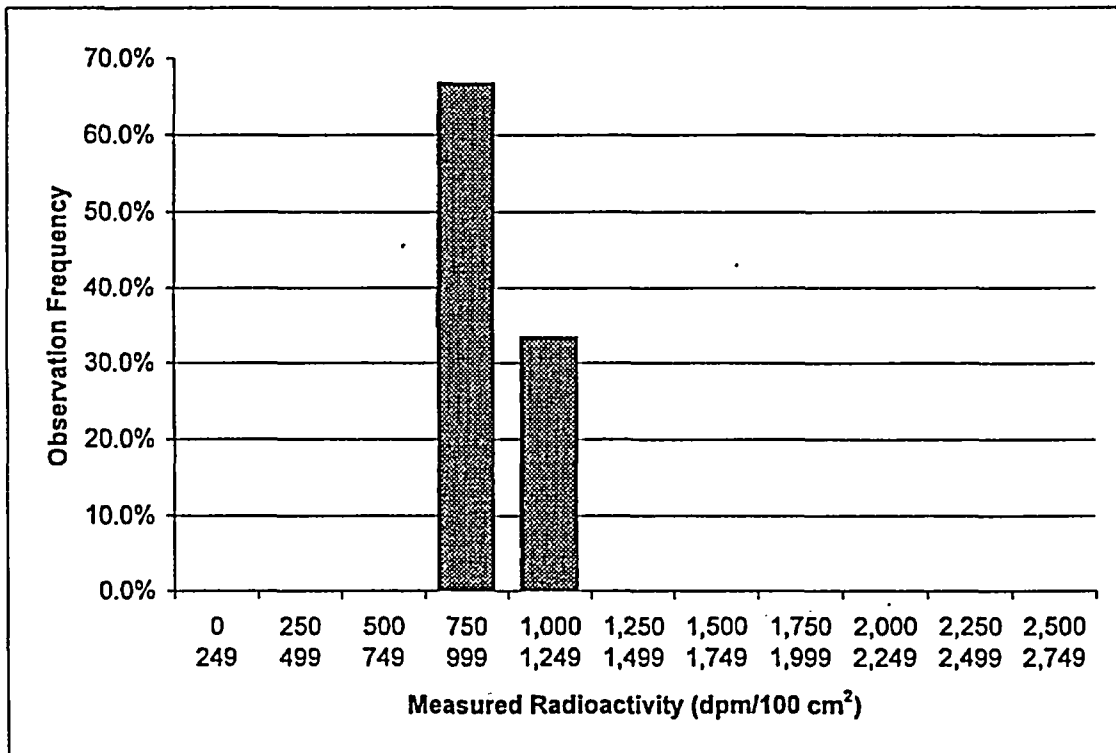
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S01025B
Survey Unit Name: Containment 25' Elevation - Tendon
 Gallery West Half

Classification: Class 2
Size (m²): 807

Measurement Data Statistical Evaluation

<u>Statistical Quantities Tests</u>				<u>Statistical Quantities</u>	
Test	Calculated Value	Acceptance Criteria	Acceptable?		
Range	341	369	Pass	Range:	341
Median	0.056	0.500	Pass	Median:	955
Mean	959	16,800	Pass	Mean:	959
Std Dev	74	4,200	Pass	Std Dev:	74
				Minimum:	767
				Maximum:	1,108
				DCGL:	21,000



<u>Plot Parameters</u>		<u>Interval</u>	<u>High</u>	<u>Low</u>	<u>Number</u>	<u>Frequency</u>
# of measurements:	30	1	249	0	0	0.0%
# of intervals:	11	2	499	250	0	0.0%
Interval increment:	250	3	749	500	0	0.0%
Minimum:	0	4	999	750	20	66.7%
Maximum:	2,749	5	1,249	1,000	10	33.3%
		6	1,499	1,250	0	0.0%
		7	1,749	1,500	0	0.0%
		8	1,999	1,750	0	0.0%
		9	2,249	2,000	0	0.0%
		10	2,499	2,250	0	0.0%
		11	2,749	2,500	0	0.0%
		Total:			30	100%

Comment:
 NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S01025B
Survey Unit Name: Containment 25' Elevation - Tendon
Gallery West Half

Classification: Class 2
Size (m²): 807

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 985

Scan Coverage (%): 12
Investigation Level: 21,000
Maximum Value: 1,444

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 2

Number of Measurements: 30
Investigation Level: 2,100
Maximum Value: 15

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

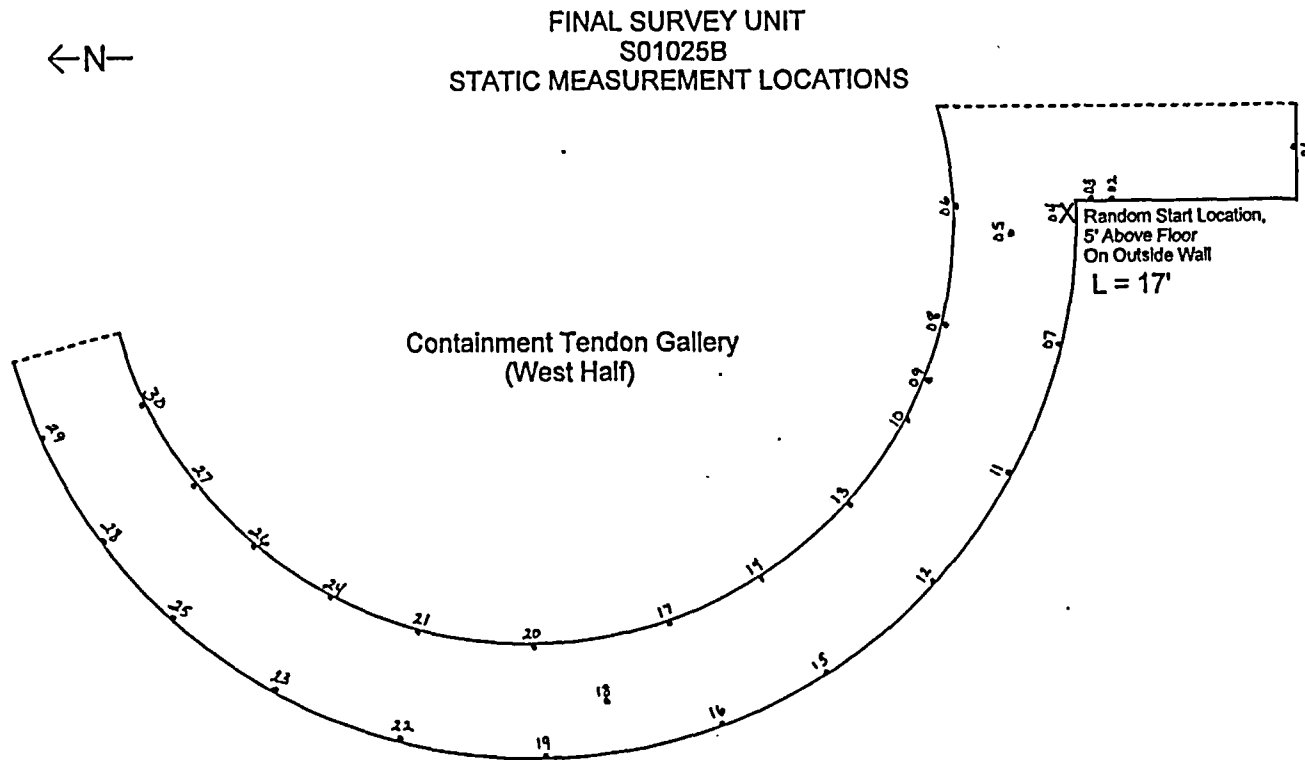
Survey Unit ID Code: S01025B

Survey Unit Name: Containment 25' Elevation - Tendon Gallery West Half

Classification: Class 2

Size (m²): 807

Static Measurement Locations Map



Loxi Libal / Loxi Libal / 10-30-2002
Survey Technician Date

Ron Keatas / Ron Keatas / 10-30-2002
Survey Technician Date

025Bsmf.cad

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S03045A
 Survey Unit Name: Maintenance Building Tool Room and
 Carpenter Shop

Classification: Class 2
 Size (m²): 984

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# OF Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 4.965e+002
 Maximum Value : 1.608e+003
 Range : 1.112e+003
 Median : 9.442e+002
 Std. Deviation : 2.928e+002
 Mean : 9.951e+002
 95% UCL : 1.086e+003

Measurement Values

Location	Value	Location	Value
000001	7.245e+002	000018	9.768e+002
000002	6.838e+002	000019	1.416e+003
000003	9.280e+002	000020	1.583e+003
000004	6.064e+002	000021	1.201e+003
000005	9.035e+002	000022	9.117e+002
000006	8.303e+002	000023	6.309e+002
000007	1.091e+003	000024	9.442e+002
000008	6.878e+002	000025	1.087e+003
000009	1.323e+003	000026	9.198e+002
000010	8.384e+002	000027	7.285e+002
000011	1.335e+003	000028	1.608e+003
000012	1.404e+003	000029	6.756e+002
000013	4.965e+002	000030	1.066e+003
000014	1.099e+003		
000015	9.565e+002		
000016	1.254e+003		
000017	9.442e+002		

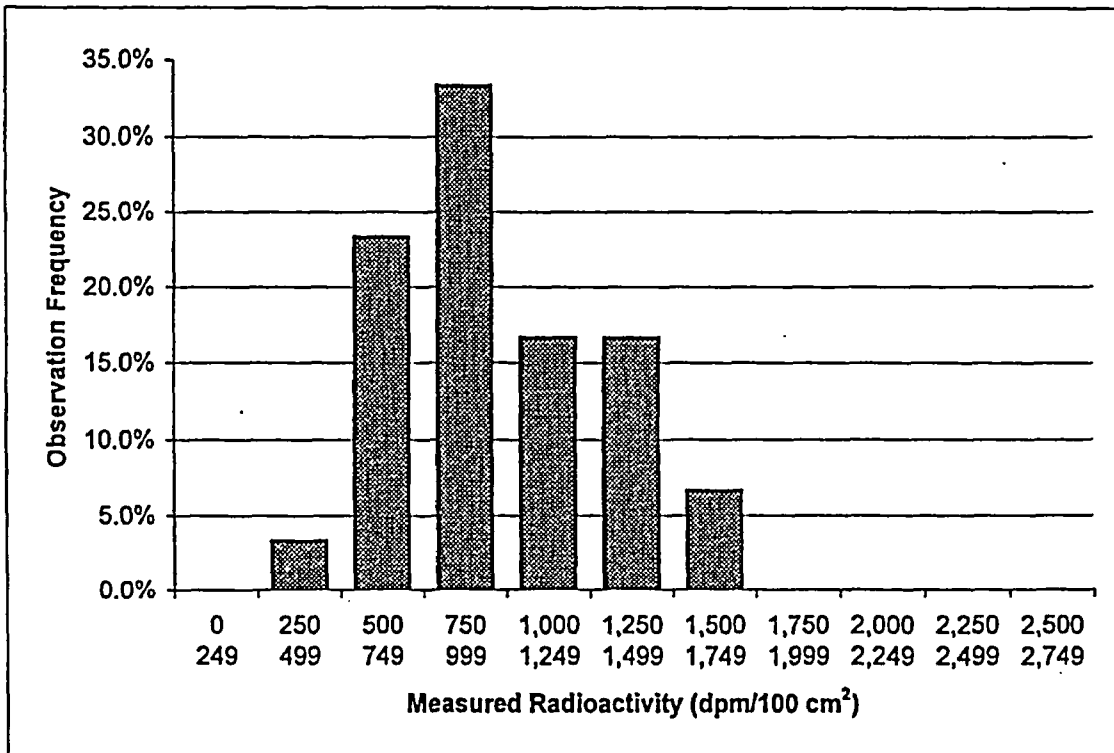
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S03045A
 Survey Unit Name: Maintenance Building Tool Room and
 Carpenter Shop

Classification: Class 2
 Size (m²): 984

Measurement Data Statistical Evaluation

Statistical Quantities Tests				Statistical Quantities	
Test	Calculated Value	Acceptance Criteria	Acceptable?	Range:	1,111
Range	1,111	1,464	Pass	Median:	944
Median	0.175	0.500	Pass	Mean:	995
Mean	995	10,500	Pass	Std Dev:	293
Std Dev	293	4,200	Pass	Minimum:	497
				Maximum:	1,608
				DCGL:	21,000



Plot Parameters		Interval	High	Low	Number	Frequency
# of measurements:	30	1	249	0	0	0.0%
# of intervals:	11	2	499	250	1	3.3%
Interval increment:	250	3	749	500	7	23.3%
Minimum:	0	4	999	750	10	33.3%
Maximum:	2,749	5	1,249	1,000	5	16.7%
		6	1,499	1,250	5	16.7%
		7	1,749	1,500	2	6.7%
		8	1,999	1,750	0	0.0%
		9	2,249	2,000	0	0.0%
		10	2,499	2,250	0	0.0%
		11	2,749	2,500	0	0.0%
		Total:			30	100%

Comment:
 NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S03045A

Classification: Class 2

Survey Unit Name: Maintenance Building Tool Room and
Carpenter Shop

Size (m²): 984

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 11

Measurement Units: dpm/100cm²

Investigation Level: 21,000

Minimum Value: 741

Maximum Value: 1,816

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 2,100

Minimum Value: 5

Maximum Value: 21

Discussion of Anomalous Measurement Data

Investigation Summary

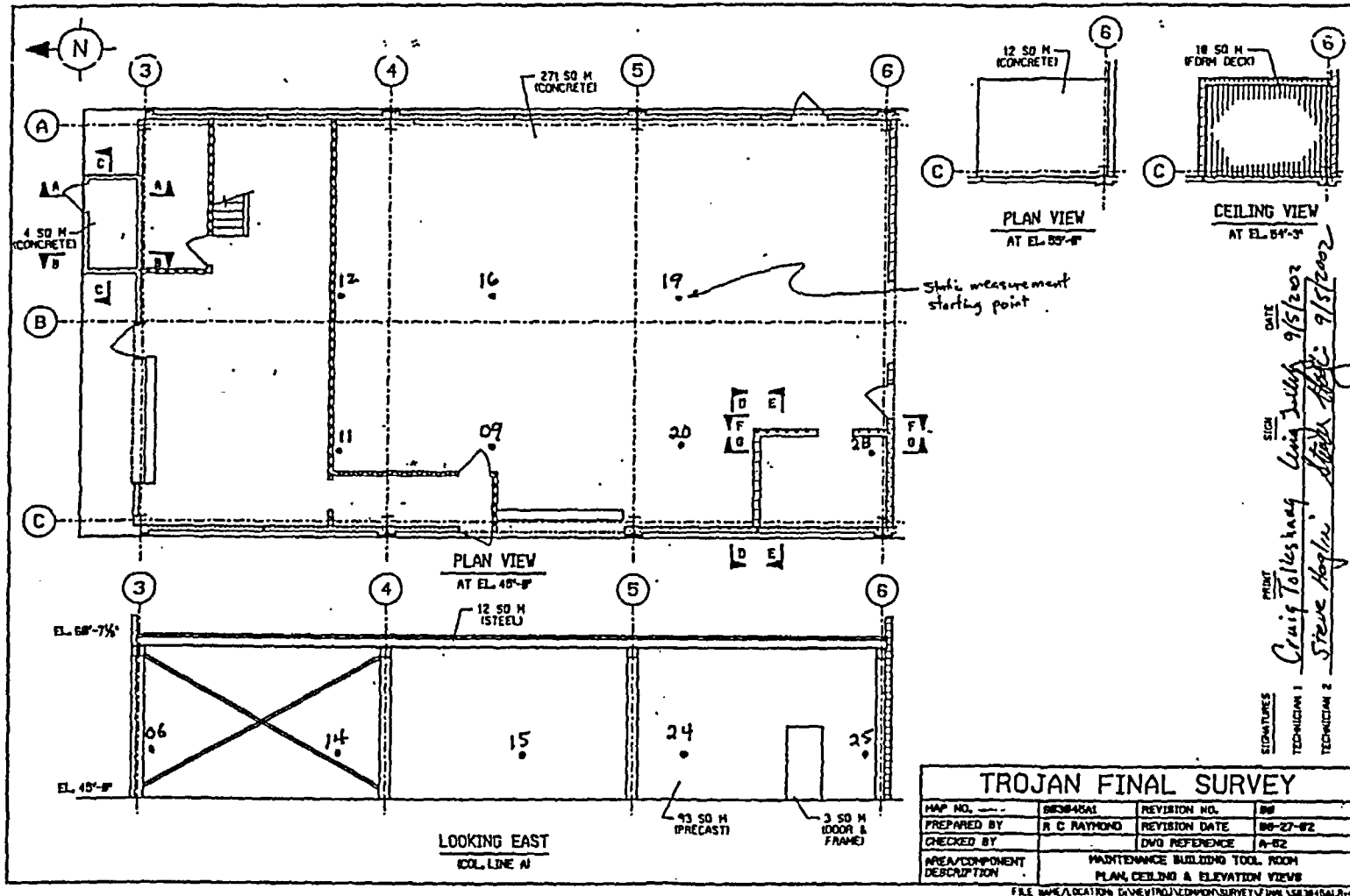
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S03045A
 Survey Unit Name: Maintenance Building Tool Room and Carpenter Shop

Classification: Class 2
 Size (m²): 984

Static Measurement Locations Map

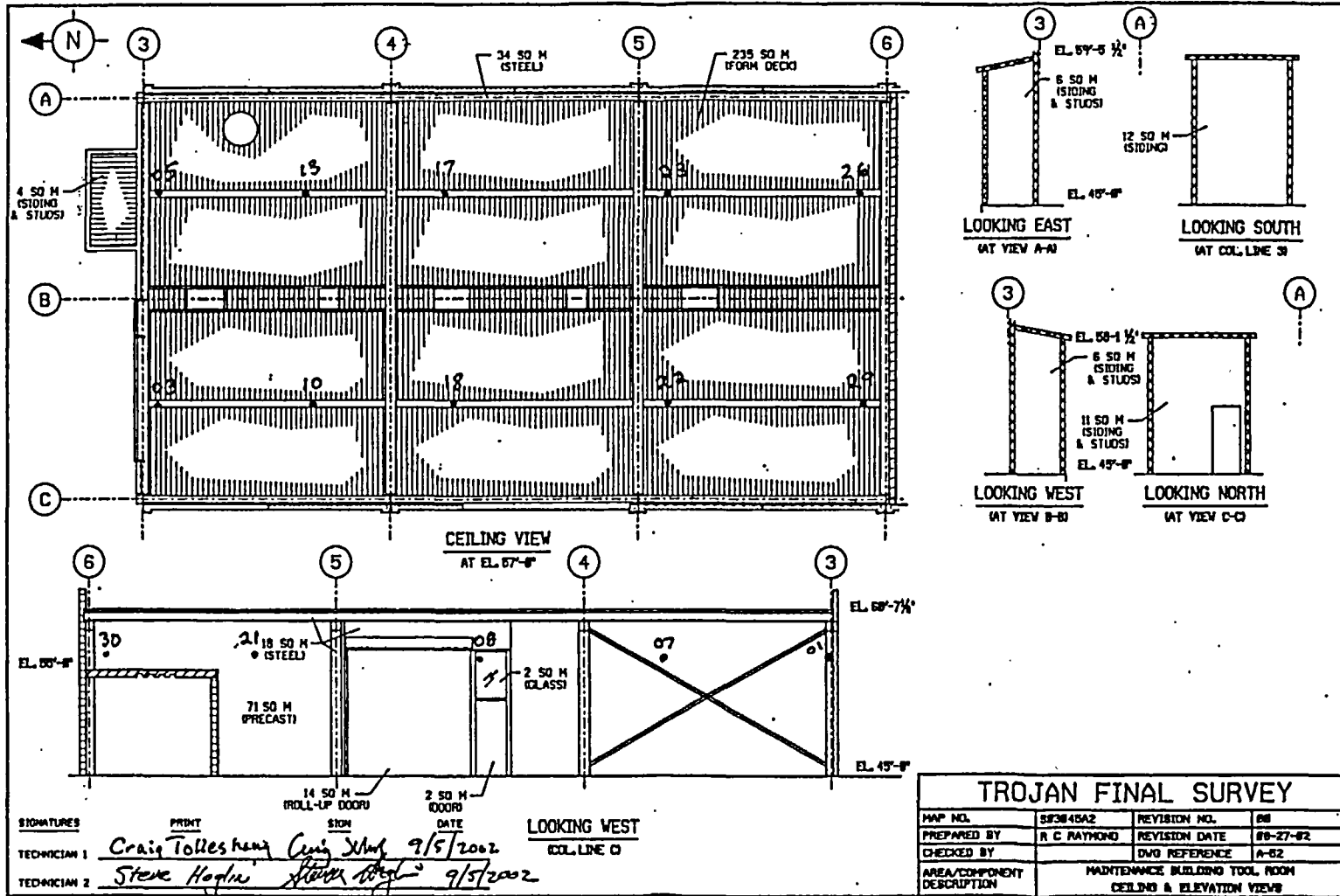


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S03045A
 Survey Unit Name: Maintenance Building Tool Room and Carpenter Shop

Classification: Class 2
 Size (m²): 984

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

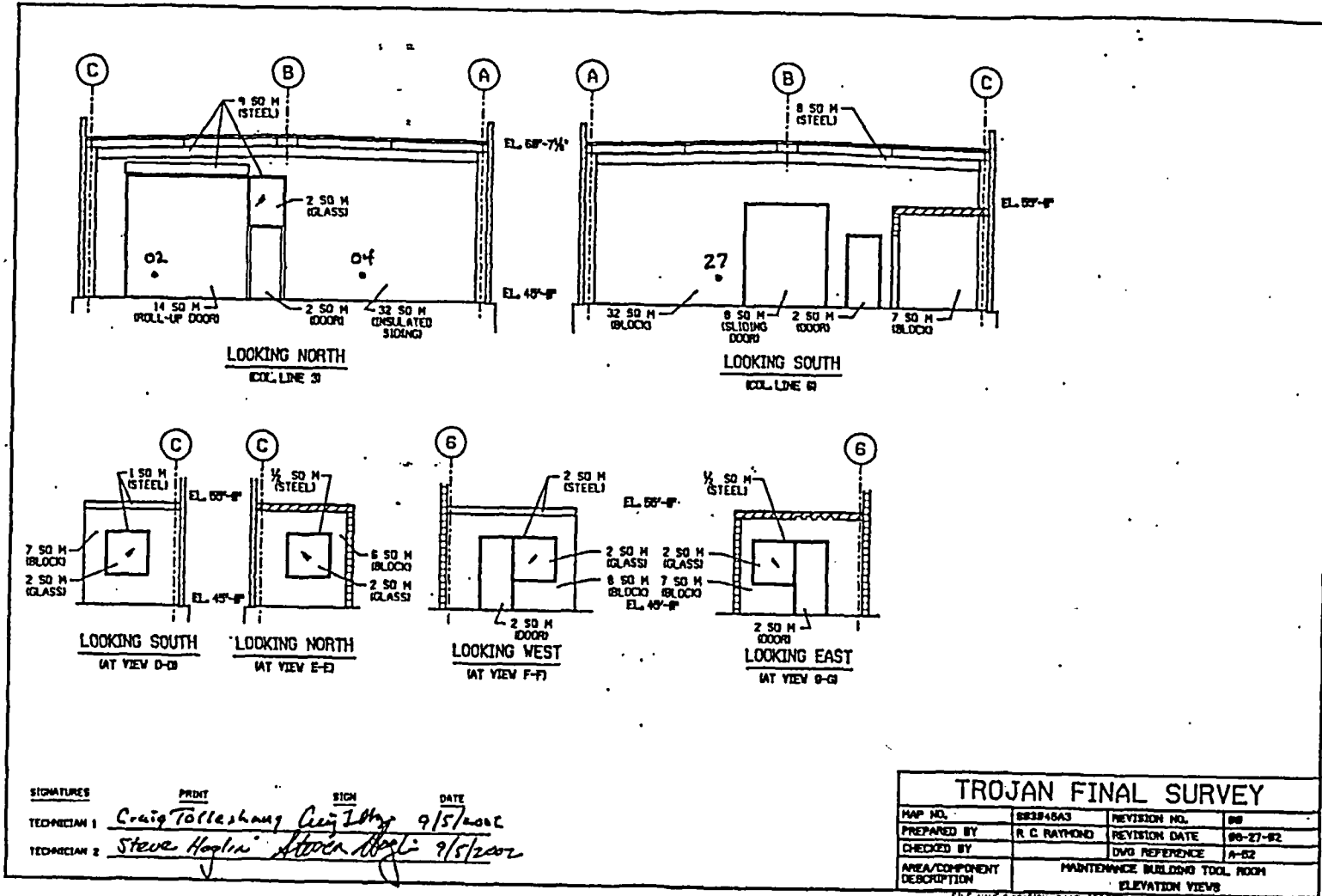
Survey Unit ID Code: S03045A

Survey Unit Name: Maintenance Building Tool Room and Carpenter Shop

Classification: Class 2

Size (m²): 984

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S03045B
 Survey Unit Name: Maintenance Building Machine Shop

Classification: Class 3
 Size (m²): 1,538

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 6.227e+002
 Maximum Value : 1.608e+003
 Range : 9.853e+002
 Median : 1.030e+003
 Std. Deviation : 2.618e+002
 Mean : 1.117e+003
 95% UCL : 1.198e+003

Measurement Values

Location	Value	Location	Value
000001	9.442e+002	000018	9.727e+002
000002	8.791e+002	000019	9.117e+002
000003	1.030e+003	000020	1.144e+003
000004	8.669e+002	000021	1.099e+003
000005	9.768e+002	000022	1.530e+003
000006	1.018e+003	000023	1.506e+003
000007	8.628e+002	000024	1.477e+003
000008	1.013e+003	000025	1.376e+003
000009	6.227e+002	000026	1.376e+003
000010	1.152e+003	000027	1.457e+003
000011	1.026e+003	000028	1.530e+003
000012	1.103e+003	000029	1.608e+003
000013	1.030e+003	000030	1.290e+003
000014	1.054e+003		
000015	1.005e+003		
000016	6.390e+002		
000017	1.001e+003		

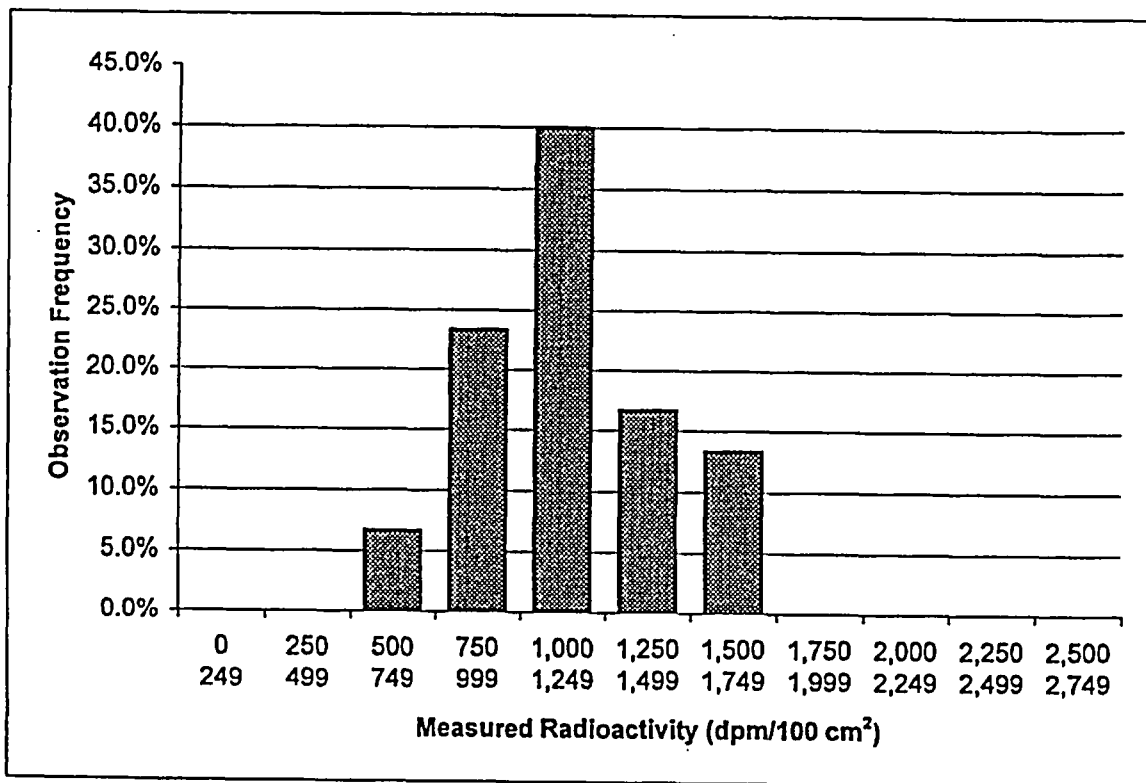
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S03045B
 Survey Unit Name: Maintenance Building Machine Shop

Classification: Class 3
 Size (m²): 1,538

Measurement Data Statistical Evaluation

Statistical Quantities Tests				Statistical Quantities	
Test	Calculated Value	Acceptance Criteria	Acceptable?	Range:	985
Range	985	1,309	Pass	Median:	1,030
Median	0.331	0.500	Pass	Mean:	1,117
Mean	1,117	10,500	Pass	Std Dev:	262
Std Dev	262	4,200	Pass	Minimum:	623
				Maximum:	1,608
				DCGL:	21,000



Plot Parameters		Interval	High	Low	Number	Frequency
# of measurements:	30	1	249	0	0	0.0%
# of intervals:	11	2	499	250	0	0.0%
Interval increment:	250	3	749	500	2	6.7%
Minimum:	0	4	999	750	7	23.3%
Maximum:	2,749	5	1,249	1,000	12	40.0%
		6	1,499	1,250	5	16.7%
		7	1,749	1,500	4	13.3%
		8	1,999	1,750	0	0.0%
		9	2,249	2,000	0	0.0%
		10	2,499	2,250	0	0.0%
		11	2,749	2,500	0	0.0%
		Total:			30	100%

Comment:
 NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S03045B

Classification: Class 3

Survey Unit Name: Maintenance Building Machine Shop

Size (m²): 1,538

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 3

Measurement Units: dpm/100cm²

Investigation Level: 21,000

Minimum Value: 760

Maximum Value: 1,627

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 2,100

Minimum Value: 2

Maximum Value: 17

Discussion of Anomalous Measurement Data

Investigation Summary

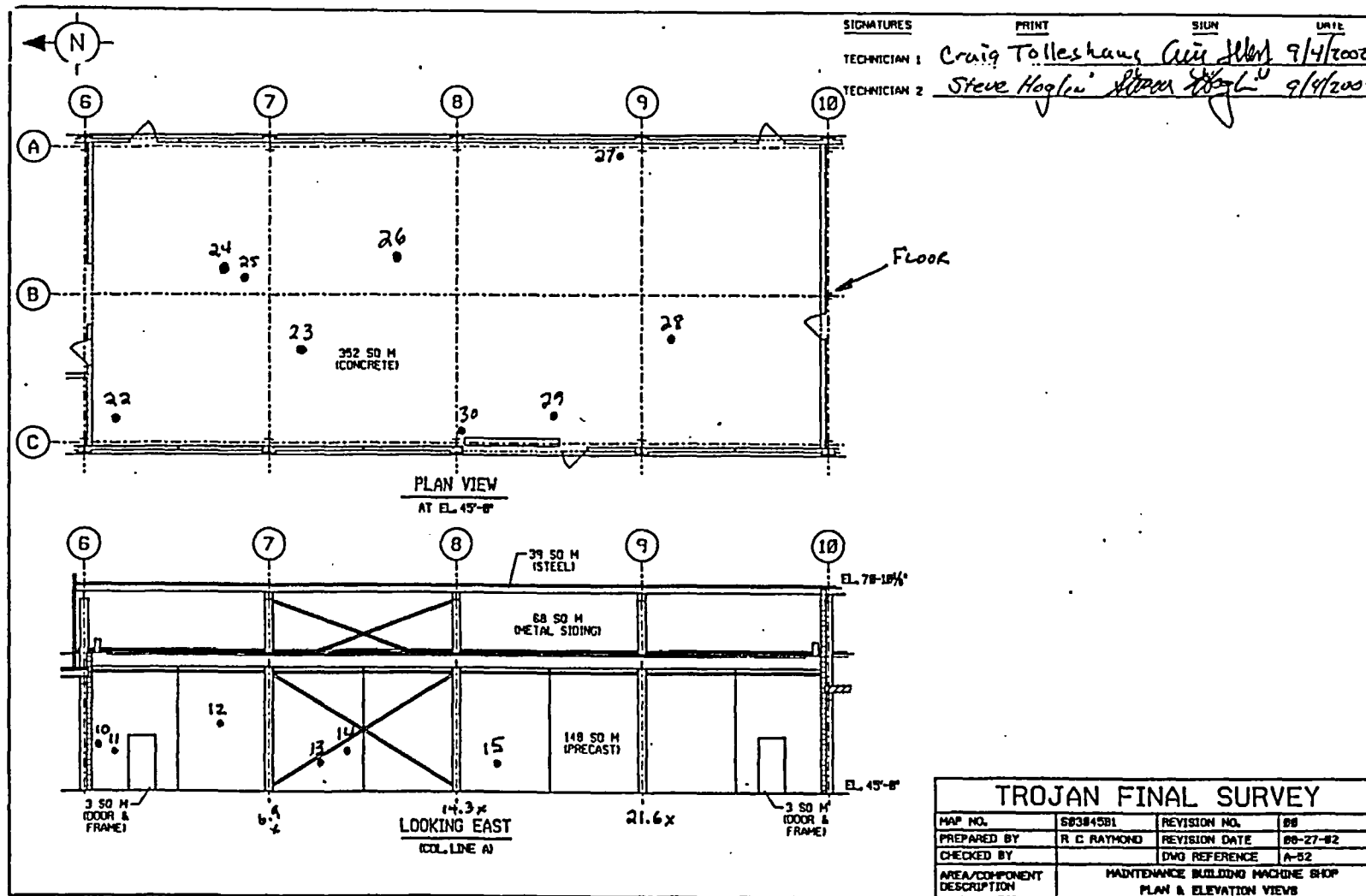
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S03045B
 Survey Unit Name: Maintenance Building Machine Shop

Classification: Class 3
 Size (m²): 1,538

Static Measurement Locations Map

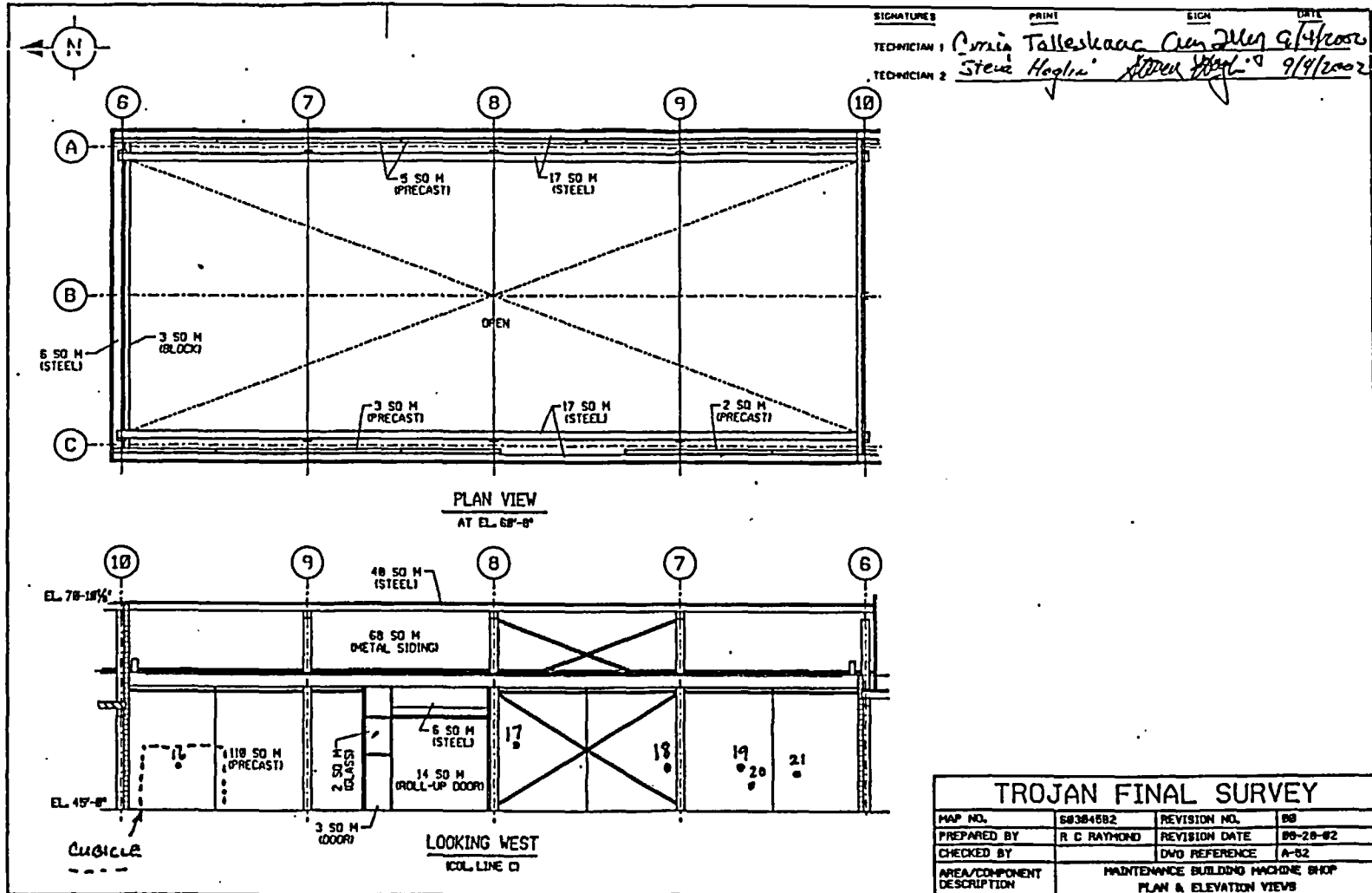


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S03045B
 Survey Unit Name: Maintenance Building Machine Shop

Classification: Class 3
 Size (m²): 1,538

Static Measurement Locations Map



TROJAN FINAL SURVEY			
MAP NO.	S03045B2	REVISION NO.	00
PREPARED BY	R. C. RAYMOND	REVISION DATE	08-28-02
CHECKED BY		DWG REFERENCE	A-02
AREA/COMPONENT DESCRIPTION	MAINTENANCE BUILDING MACHINE SHOP PLAN & ELEVATION VIEWS		

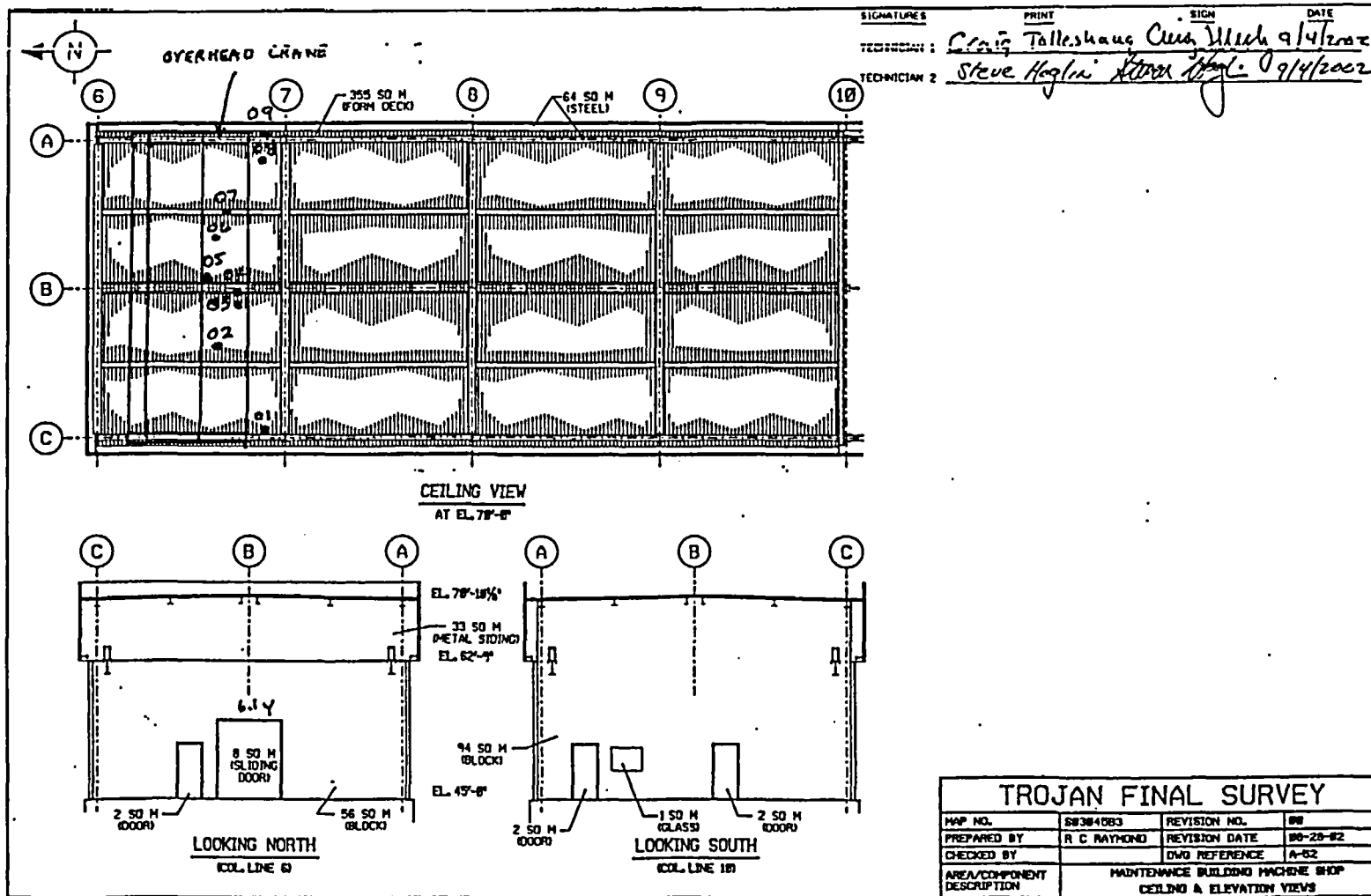
FILE NAME/LOCATION: G:\VE\TROJAN\COMP\GN\SURVEY\PLAN\S03045B2.dwg

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S03045B
 Survey Unit Name: Maintenance Building Machine Shop

Classification: Class 3
 Size (m²): 1,538

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S03045C
 Survey Unit Name: Maintenance Building Interior

Classification: Class 3
 Size (m²): 1,519

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 7.278e+002
 Maximum Value : 1.448e+003
 Range : 7.202e+002
 Median : 1.001e+003
 Std. Deviation : 2.020e+002
 Mean : 1.048e+003
 95% UCL : 1.110e+003

Measurement Values

Location	Value	Location	Value
000001	9.369e+002	000018	9.795e+002
000002	1.038e+003	000019	1.239e+003
000003	9.524e+002	000020	9.446e+002
000004	7.472e+002	000021	9.524e+002
000005	1.220e+003	000022	8.362e+002
000006	1.409e+003	000023	7.704e+002
000007	1.274e+003	000024	9.795e+002
000008	8.866e+002	000025	9.563e+002
000009	1.448e+003	000026	7.898e+002
000010	1.247e+003	000027	1.057e+003
000011	1.243e+003	000028	7.278e+002
000012	1.134e+003	000029	1.239e+003
000013	9.253e+002	000030	1.080e+003
000014	1.413e+003		
000015	1.022e+003		
000016	1.115e+003		
000017	8.672e+002		

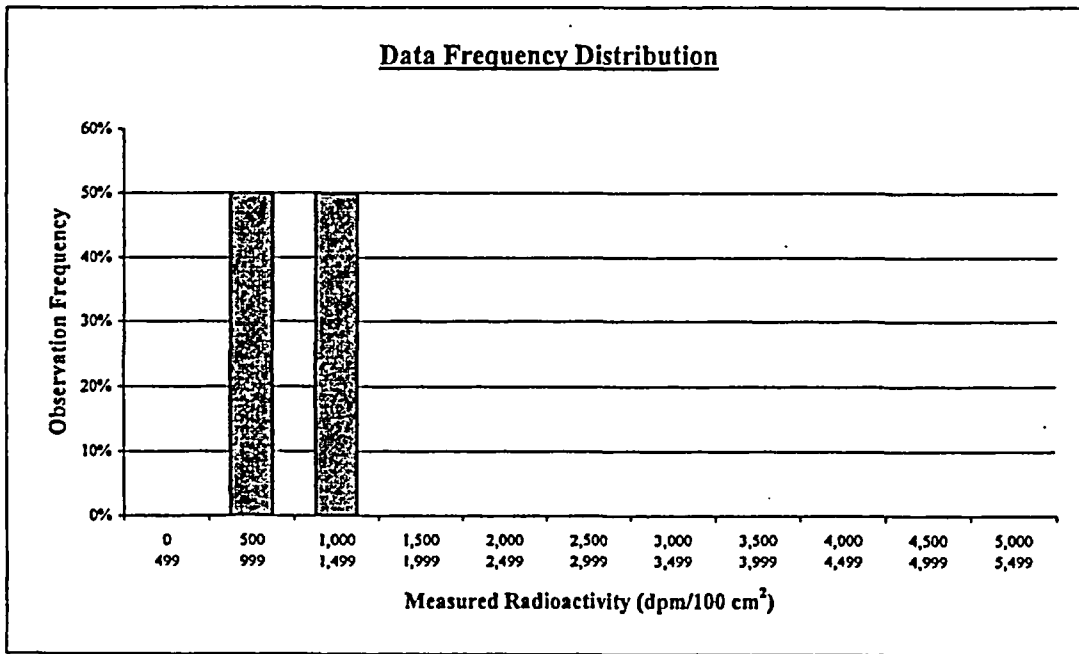
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S03045C
 Survey Unit Name: Maintenance Building Interior

Classification: Class 3
 Size (m²): 1,519

Measurement Data Statistical Evaluation

Statistical Comparisons				Statistical Quantities	
Test	Calculated Value	Acceptance Criteria	Acceptable?	Range:	720
Range	720	1,010	Pass	Median:	1,001
Median	0.231	0.500	Pass	Mean:	1,048
Mean	1,048	10,500	Pass	Std Dev:	202
Std Dev	202	4,200	Pass	Minimum:	728
All data less than DCGL; Sign statistical test not required.				Maximum:	1,448
				DCGL:	21,000



Plot Parameters		Interval	High End	Low End	Number of Observations	Observation Frequency
# of measurements:	30	1	499	0	0	0%
# of intervals:	11	2	999	500	15	50%
Interval increment:	500	3	1,499	1,000	15	50%
Minimum:	0	4	1,999	1,500	0	0%
Maximum:	5,499	5	2,499	2,000	0	0%
		6	2,999	2,500	0	0%
		7	3,499	3,000	0	0%
		8	3,999	3,500	0	0%
		9	4,499	4,000	0	0%
		10	4,999	4,500	0	0%
		11	5,499	5,000	0	0%
		Total:			30	100%

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S03045C
Survey Unit Name: Maintenance Building Interior

Classification: Class 3
Size (m²): 1,519

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 1,102

Scan Coverage (%): 10
Investigation Level: 21,000
Maximum Value: 2,008

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 46

Number of Measurements: 30
Investigation Level: 2,100
Maximum Value: 85

Discussion of Anomalous Measurement Data

Investigation Summary

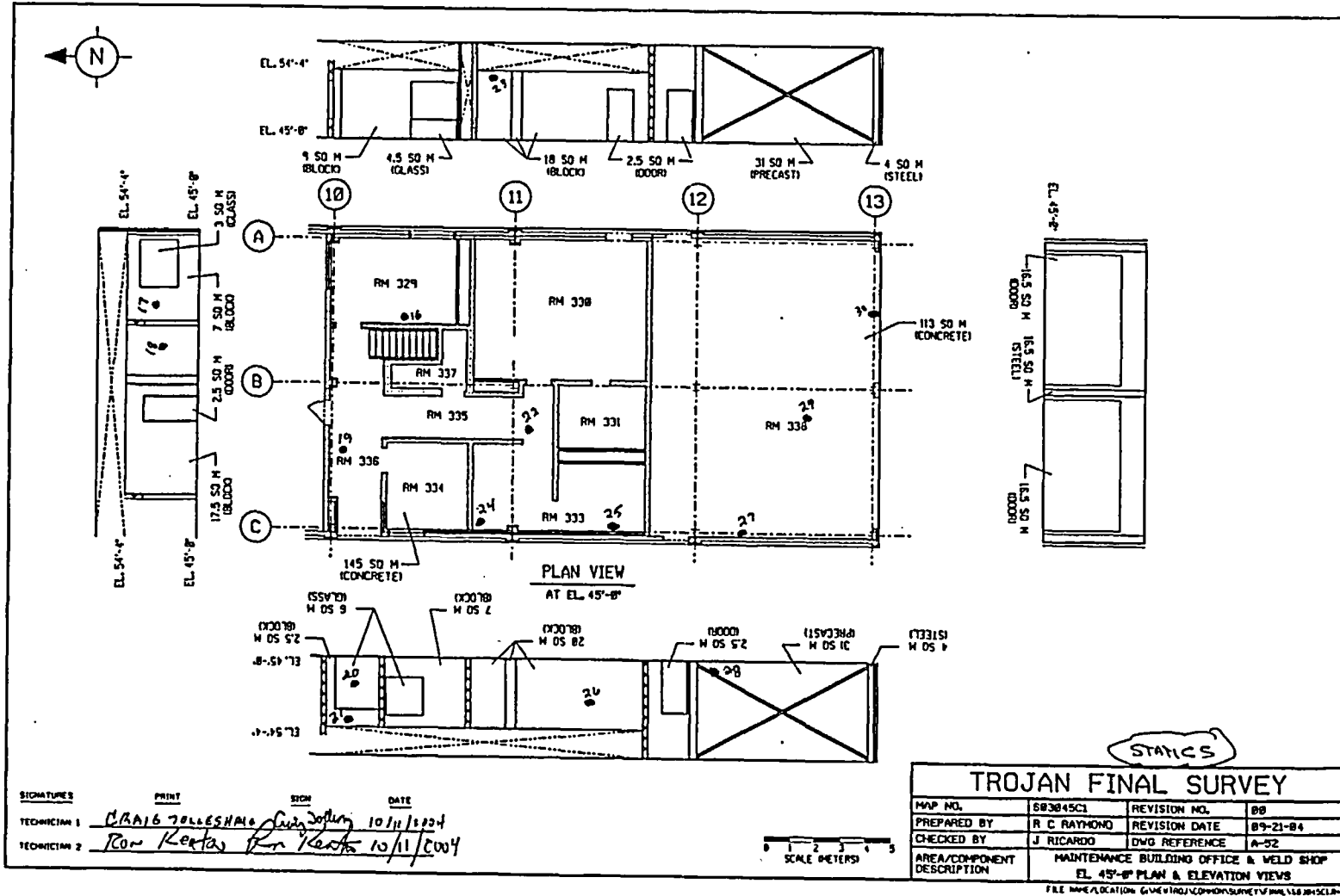
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S03045C
 Survey Unit Name: Maintenance Building Interior

Classification: Class 3
 Size (m²): 1,519

Static Measurement Locations Map



SIGNATURES PRINT SIGN DATE

TECHNICIAN 1 CRAIG TOLLESMA Craig Tollesma 10/11/2004

TECHNICIAN 2 Ron Kertay Ron Kertay 10/11/2004

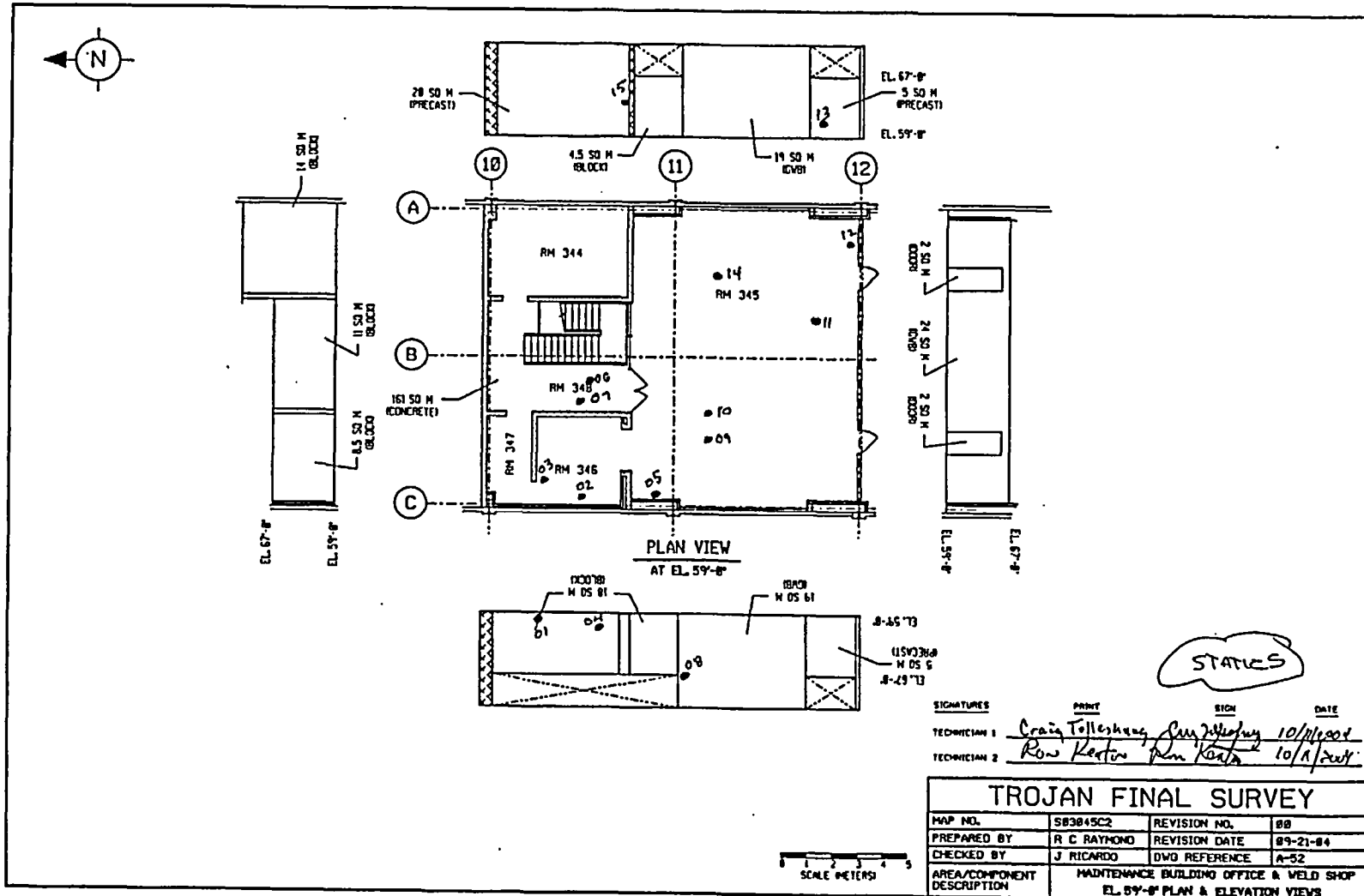
0 1 2 3 4 5
 SCALE (METERS)

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S03045C
 Survey Unit Name: Maintenance Building Interior

Classification: Class 3
 Size (m²): 1,519

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S21023B
 Survey Unit Name: Intake Structure Interior

Classification: Class 3
 Size (m²): 2,280

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 6.550e+002
 Maximum Value : 1.876e+003
 Range : 1.221e+003
 Median : 1.154e+003
 Std. Deviation : 2.249e+002
 Mean : 1.182e+003
 95% UCL : 1.252e+003

Measurement Values

Location	Value	Location	Value
000001	1.113e+003	000018	1.179e+003
000002	1.876e+003	000019	1.198e+003
000003	1.287e+003	000020	1.310e+003
000004	1.025e+003	000021	1.110e+003
000005	1.006e+003	000022	1.452e+003
000006	1.113e+003	000023	9.824e+002
000007	1.229e+003	000024	1.098e+003
000008	1.333e+003	000025	1.171e+003
000009	1.614e+003	000026	1.125e+003
000010	1.506e+003	000027	1.214e+003
000011	1.152e+003	000028	1.137e+003
000012	1.133e+003	000029	1.083e+003
000013	1.187e+003	000030	1.156e+003
000014	6.550e+002		
000015	1.009e+003		
000016	8.322e+002		
000017	1.171e+003		

FINAL SURVEY RESULTS SUMMARY

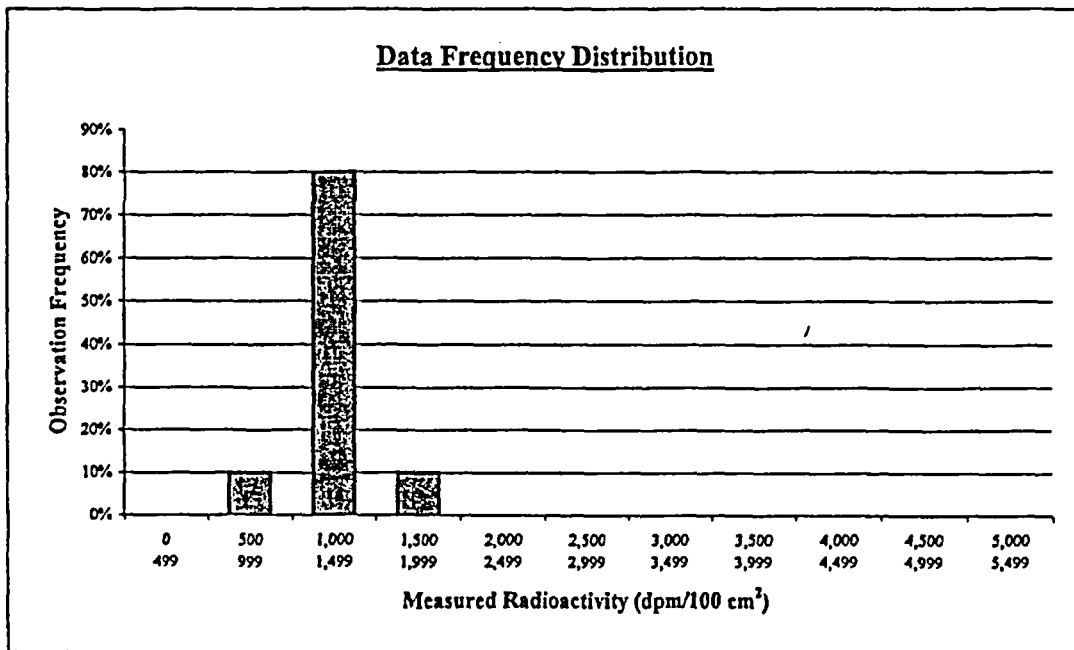
Survey Unit ID Code: S21023B
 Survey Unit Name: Intake Structure Interior

Classification: Class 3
 Size (m²): 2,280

Measurement Data Statistical Evaluation

<u>Statistical Comparisons</u>				<u>Statistical Quantities</u>	
Test	Calculated Value	Acceptance Criteria	Acceptable?		
Range	1,221	1,124	See comment below	Range:	1,221
Median	0.124	0.500	Pass	Median:	1,154
Mean	1,182	10,500	Pass	Mean:	1,182
Std Dev	225	4,200	Pass	Std Dev:	225
				Minimum:	655
				Maximum:	1,876
				DCGL:	21,000

All data less than DCGL; Sign statistical test not required.



<u>Plot Parameters</u>		Interval	High End	Low End	Number of Observations	Observation Frequency
# of measurements:	30	1	499	0	0	0%
# of intervals:	11	2	999	500	3	10%
Interval increment:	500	3	1,499	1,000	24	80%
Minimum:	0	4	1,999	1,500	3	10%
Maximum:	5,499	5	2,499	2,000	0	0%
		6	2,999	2,500	0	0%
		7	3,499	3,000	0	0%
		8	3,999	3,500	0	0%
		9	4,499	4,000	0	0%
		10	4,999	4,500	0	0%
		11	5,499	5,000	0	0%
		Total:			30	100%

Comment:
 Range failure is a test artifact due to a very small standard deviation, resulting in a range value that is slightly more than 5 times the standard deviation. All data values are valid and accepted for final survey release record.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S21023B
Survey Unit Name: Intake Structure Interior

Classification: Class 3
Size (m²): 2,280

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 719

Scan Coverage (%): 5
Investigation Level: 21,000
Maximum Value: 1,667

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 43

Number of Measurements: 30
Investigation Level: 2,100
Maximum Value: 80

Discussion of Anomalous Measurement Data

Investigation Summary

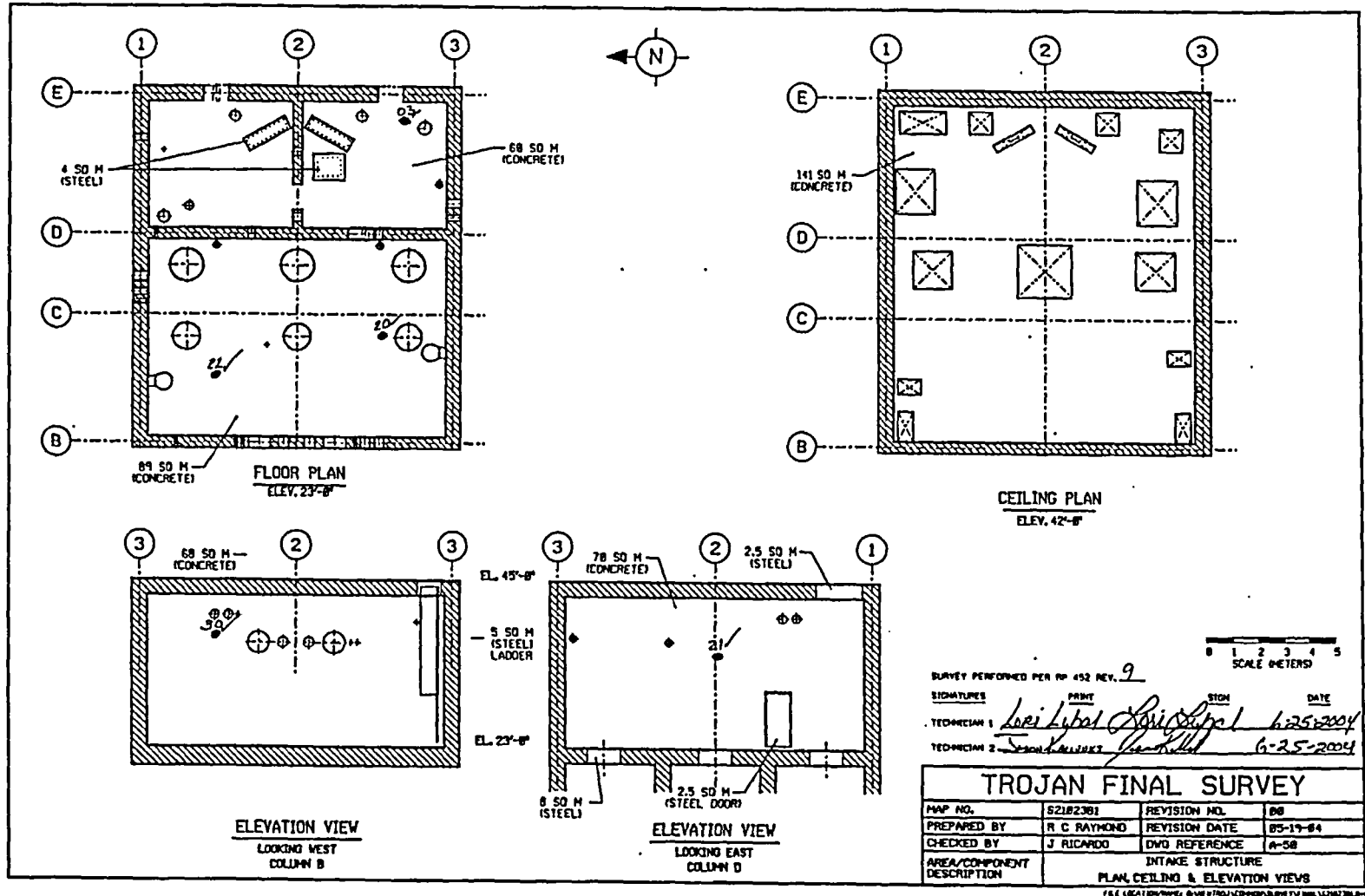
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S21023B
 Survey Unit Name: Intake Structure Interior

Classification: Class 3
 Size (m²): 2,280

Static Measurement Locations Map

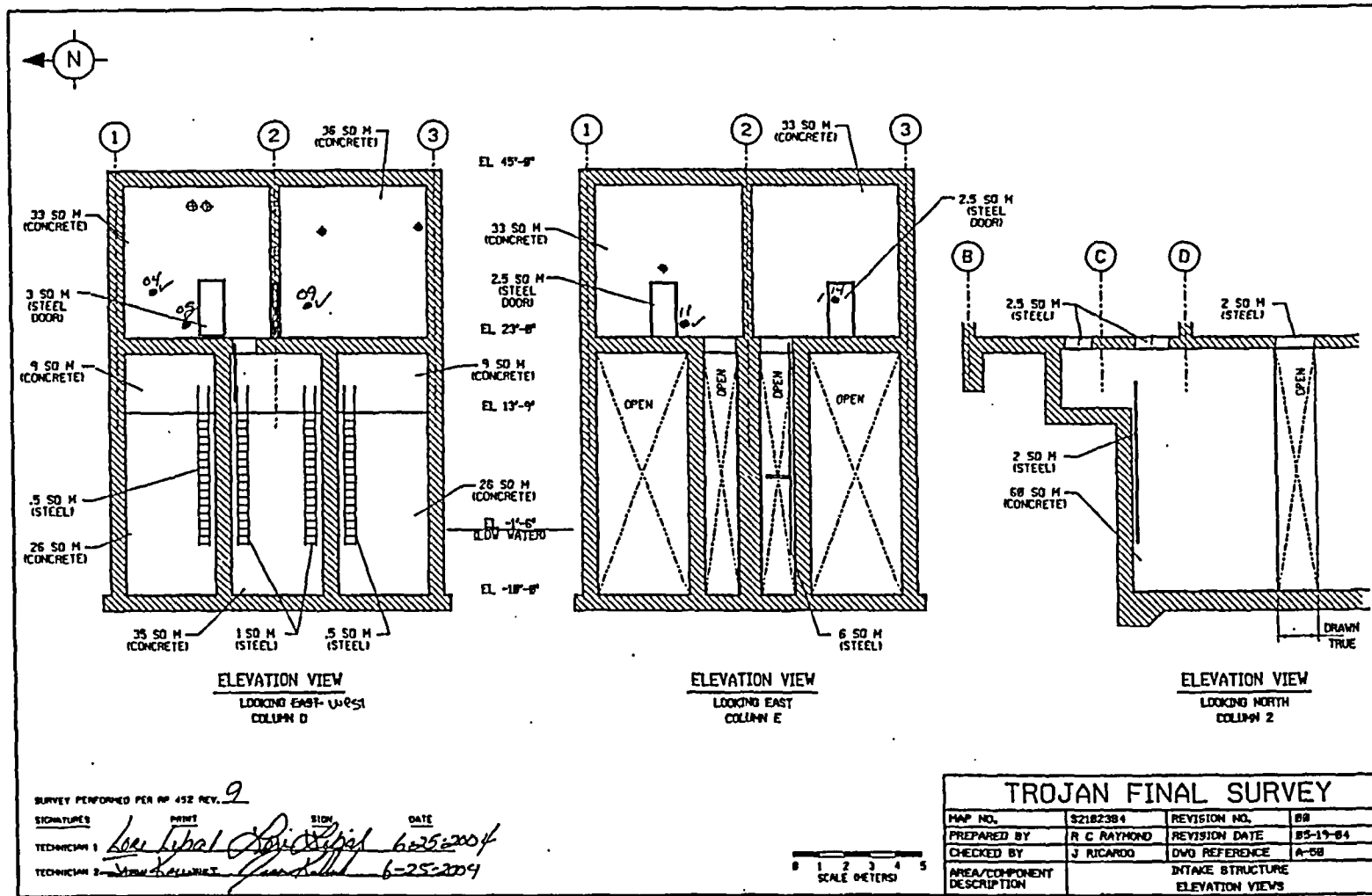


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S21023B
 Survey Unit Name: Intake Structure Interior

Classification: Class 3
 Size (m²): 2,280

Static Measurement Locations Map

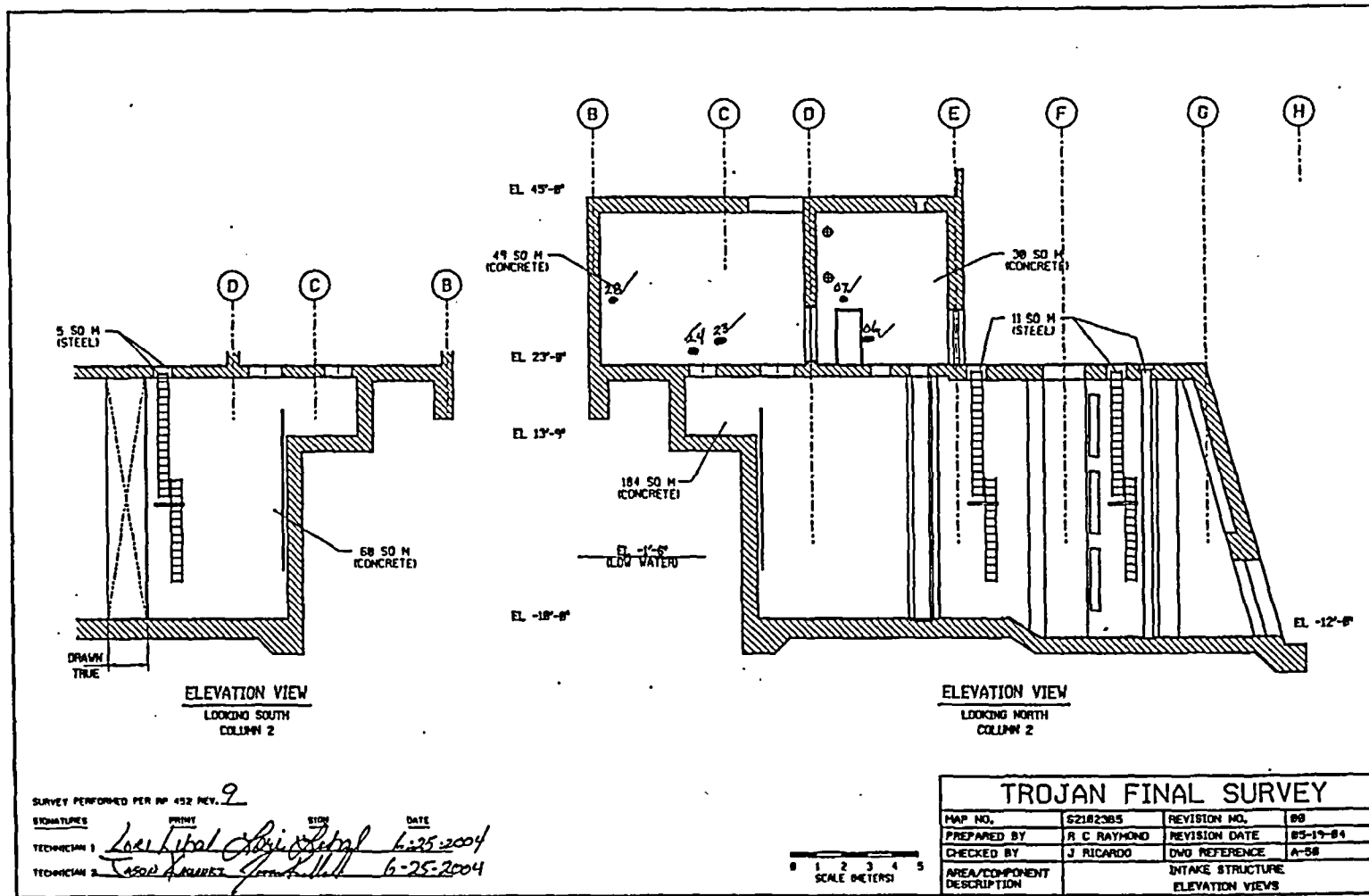


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S21023B
 Survey Unit Name: Intake Structure Interior

Classification: Class 3
 Size (m²): 2,280

Static Measurement Locations Map



SURVEY PERFORMED PER RP 432 REV. 9

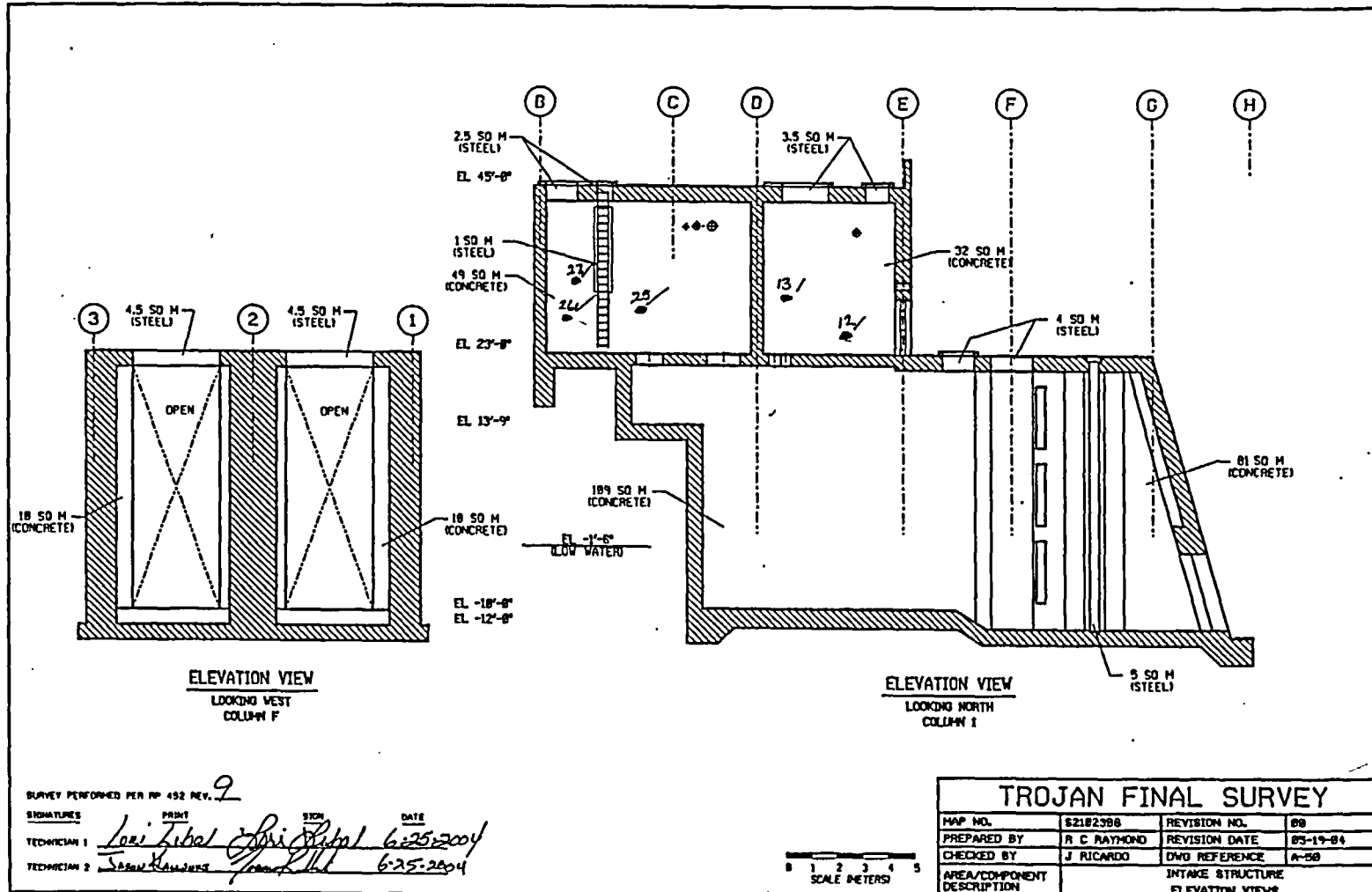
SIGNATURE	PRINT	DATE
<i>Loel Lyal</i>	Loel Lyal	6-25-2004
TECHNICIAN 1		
TECHNICIAN 2	ASAD AL-KHAYAT	6-25-2004

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S21023B
 Survey Unit Name: Intake Structure Interior

Classification: Class 3
 Size (m²): 2,280

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 2

SIGNATURES PRINT SIGN DATE

TECHNICIAN 1 *Lori Tubal* *Lori Tubal* 6-25-2004

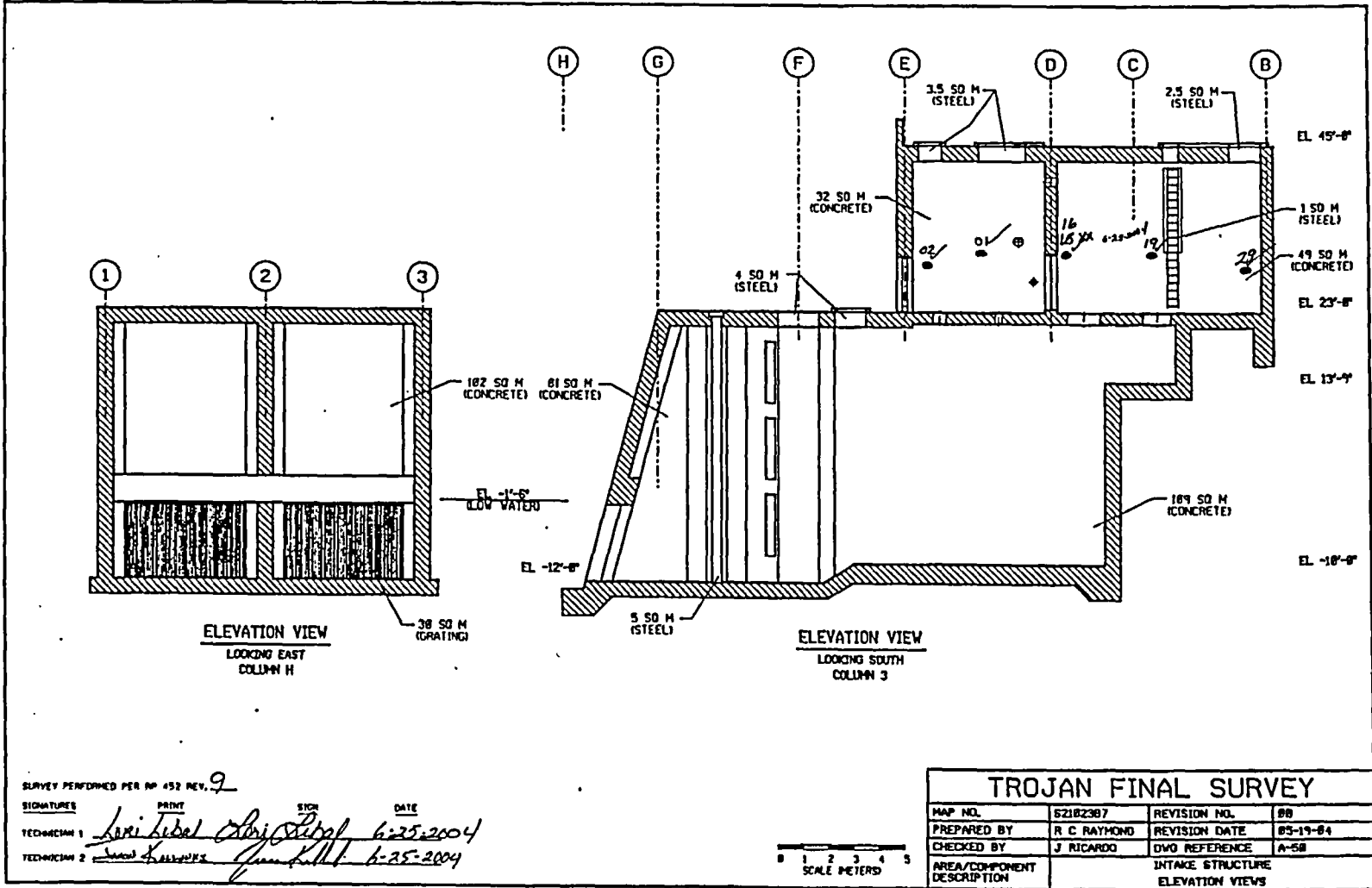
TECHNICIAN 2 *Saman Ramirez* *Saman Ramirez* 6-25-2004

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S21023B
Survey Unit Name: Intake Structure Interior

Classification: Class 3
Size (m²): 2,280

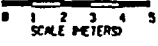
Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 9

SIGNATURE	PRINT	STATION	DATE
<i>[Signature]</i>	TECHNICIAN 1	<i>[Station]</i>	6-25-2004
<i>[Signature]</i>	TECHNICIAN 2	<i>[Station]</i>	6-25-2004

TROJAN FINAL SURVEY			
MAP NO.	S2102307	REVISION NO.	00
PREPARED BY	R. C. RAYMOND	REVISION DATE	05-19-04
CHECKED BY	J. RICARDO	DWG REFERENCE	A-50
AREA/COMPONENT DESCRIPTION	INTAKE STRUCTURE ELEVATION VIEWS		

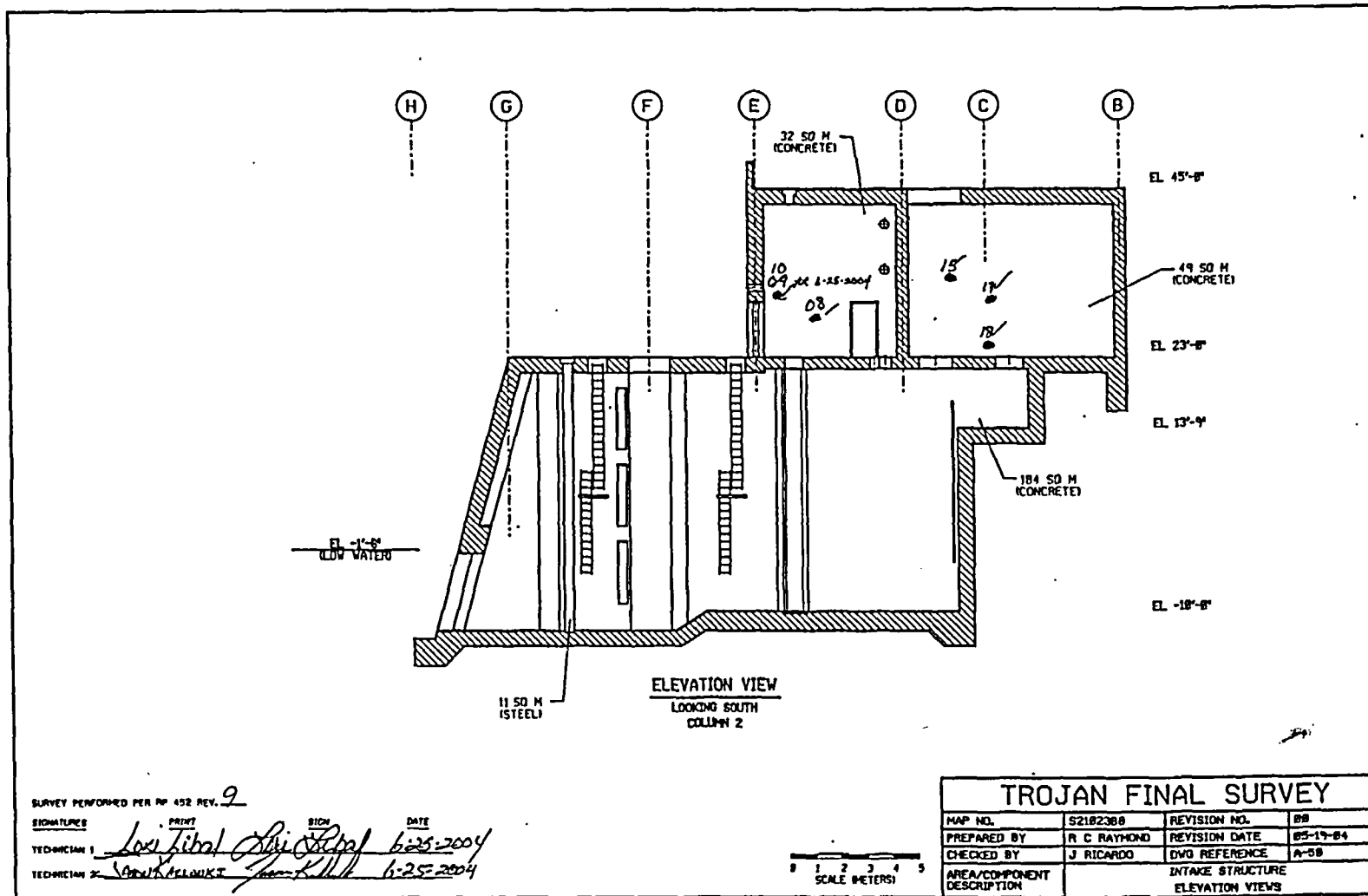


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S21023B
 Survey Unit Name: Intake Structure Interior

Classification: Class 3
 Size (m²): 2,280

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 9
 SIGNATURES: *Loxi Tibal* (PRINT), *[Signature]* (SIGN), DATE: 6-25-2004
 TECHNICIAN 1: *[Signature]*
 TECHNICIAN 2: *[Signature]* DATE: 6-25-2004

TROJAN FINAL SURVEY			
MAP NO.	S21023B0	REVISION NO.	09
PREPARED BY	R C RAYMOND	REVISION DATE	05-17-04
CHECKED BY	J RICARDO	DWG REFERENCE	A-09
AREA/COMPONENT DESCRIPTION	INTAKE STRUCTURE ELEVATION VIEWS		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S22045A
 Survey Unit Name: Chlorine Building Interior

Classification: Class 3
 Size (m²): 1,125

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 8.054e+002
 Maximum Value : 1.493e+003
 Range : 6.876e+002
 Median : 1.183e+003
 Std. Deviation : 2.185e+002
 Mean : 1.180e+003
 95% UCL : 1.248e+003

Measurement Values

Location	Value	Location	Value
000001	1.493e+003	000018	1.383e+003
000002	1.332e+003	000019	1.049e+003
000003	8.369e+002	000020	1.045e+003
000004	9.115e+002	000021	1.073e+003
000005	1.037e+003	000022	1.363e+003
000006	1.073e+003	000023	8.526e+002
000007	1.458e+003	000024	1.171e+003
000008	8.054e+002	000025	1.041e+003
000009	8.133e+002	000026	1.430e+003
000010	1.477e+003	000027	1.194e+003
000011	1.430e+003	000028	1.218e+003
000012	1.077e+003	000029	1.328e+003
000013	1.041e+003	000030	1.328e+003
000014	1.010e+003		
000015	1.336e+003		
000016	1.387e+003		
000017	1.418e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S22045A
 Survey Unit Name: Chlorine Building Interior

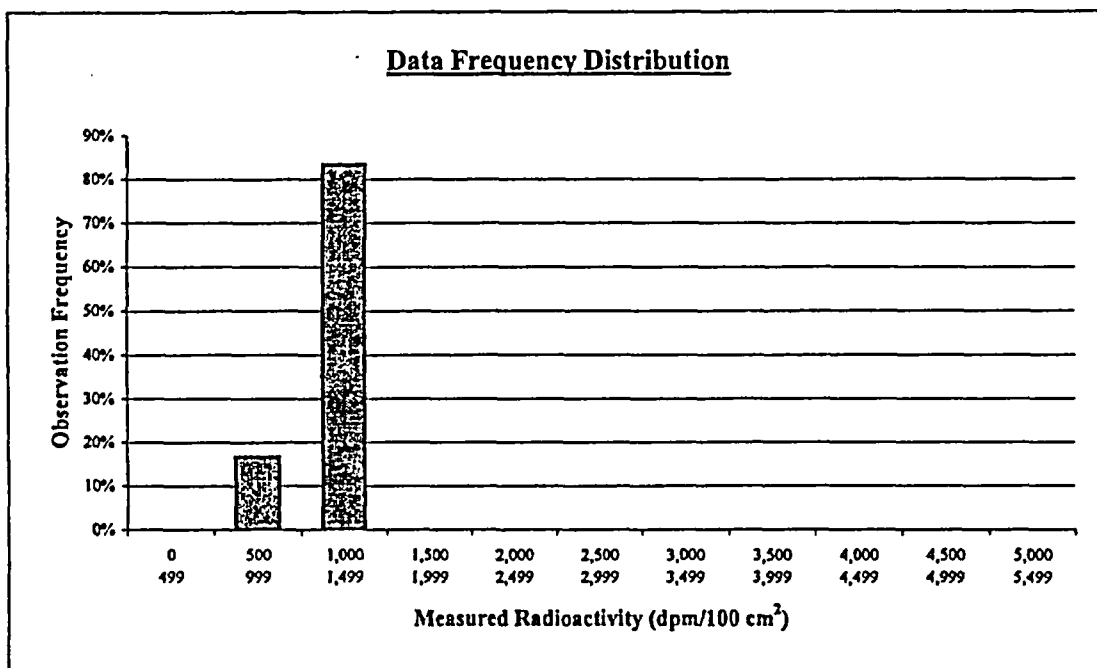
Classification: Class 3
 Size (m²): 1,125

Measurement Data Statistical Evaluation

Statistical Comparisons			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	688	1,092	Pass
Median	0.010	0.500	Pass
Mean	1,180	10,500	Pass
Std Dev	218	4,200	Pass

Statistical Quantities	
Range:	688
Median:	1,183
Mean:	1,180
Std Dev:	218
Minimum:	805
Maximum:	1,493
DCGL:	21,000

All data less than DCGL; Sign statistical test not required.



Plot Parameters	
# of measurements:	30
# of intervals:	11
Interval increment:	500
Minimum:	0
Maximum:	5,499

Comment:
 NONE

Interval	High End	Low End	Number of Observations	Observation Frequency
1	499	0	0	0%
2	999	500	5	17%
3	1,499	1,000	25	83%
4	1,999	1,500	0	0%
5	2,499	2,000	0	0%
6	2,999	2,500	0	0%
7	3,499	3,000	0	0%
8	3,999	3,500	0	0%
9	4,499	4,000	0	0%
10	4,999	4,500	0	0%
11	5,499	5,000	0	0%
Total:			30	100%

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S22045A
Survey Unit Name: Chlorine Building Interior

Classification: Class 3
Size (m²): 1,125

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 1,226

Scan Coverage (%): 5
Investigation Level: 21,000
Maximum Value: 1,993

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 45

Number of Measurements: 30
Investigation Level: 2,100
Maximum Value: 92

Discussion of Anomalous Measurement Data

Investigation Summary

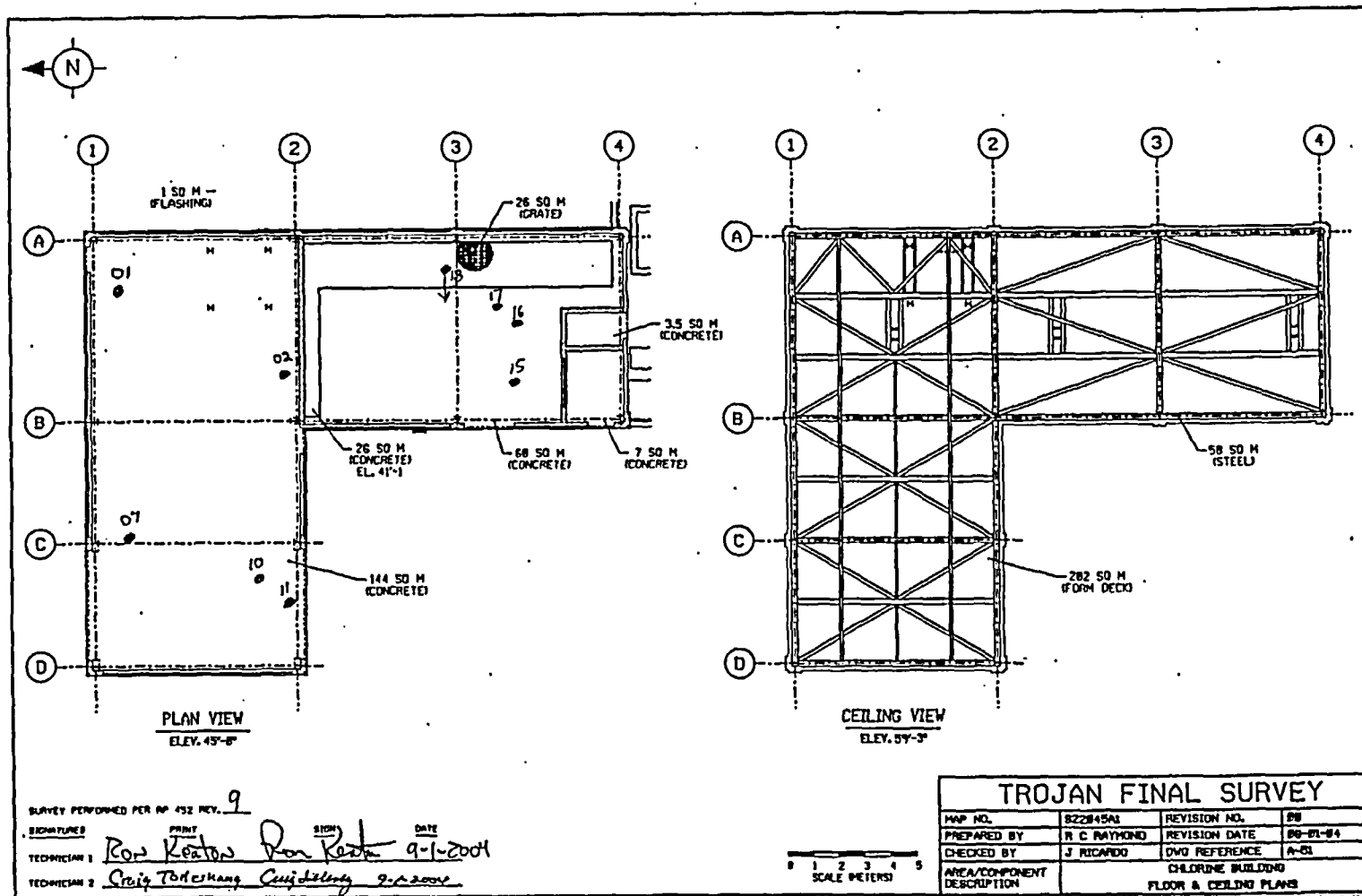
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S22045A
 Survey Unit Name: Chlorine Building Interior

Classification: Class 3
 Size (m²): 1,125

Static Measurement Locations Map

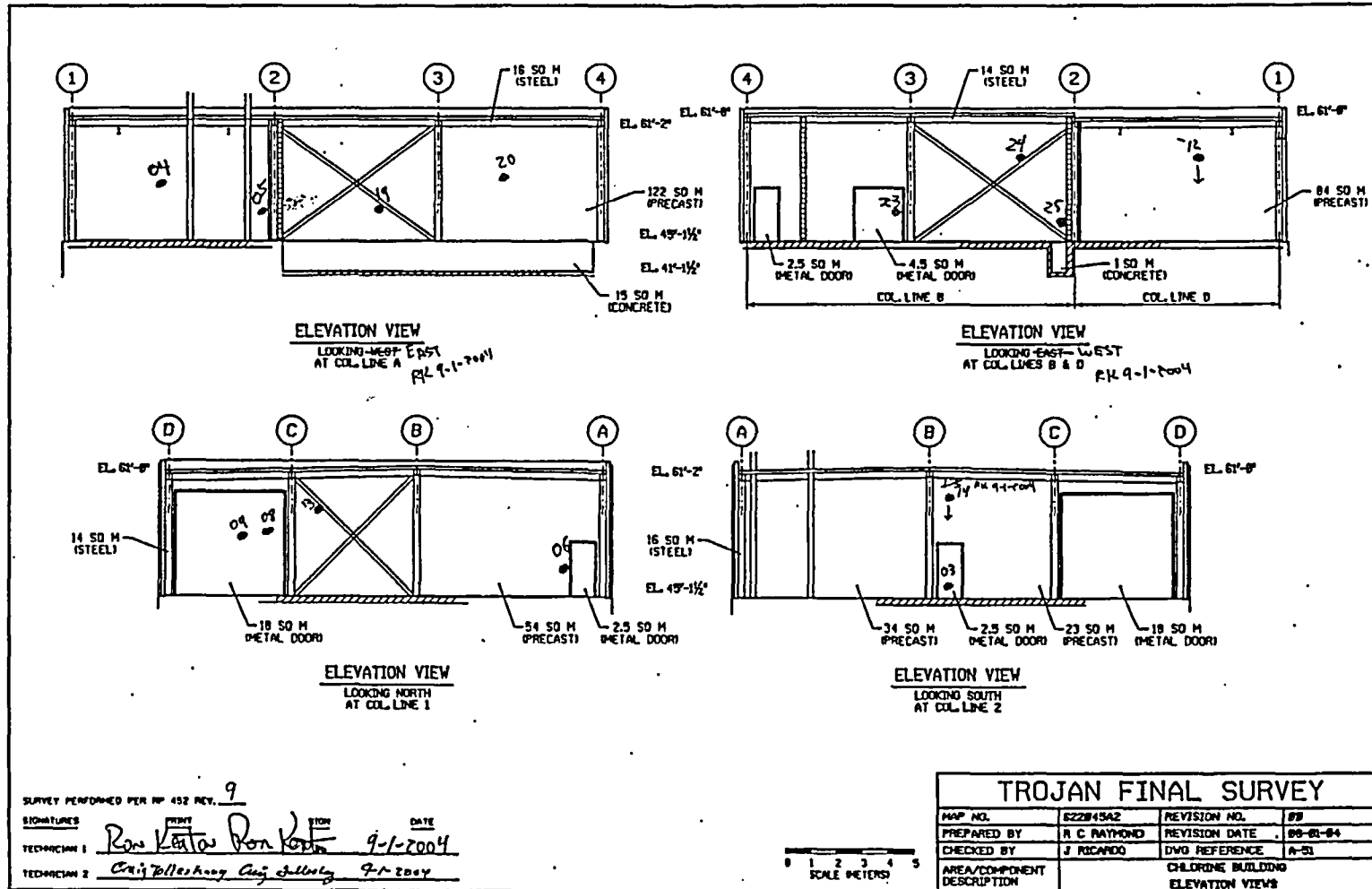


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S22045A
 Survey Unit Name: Chlorine Building Interior

Classification: Class 3
 Size (m²): 1,125

Static Measurement Locations Map

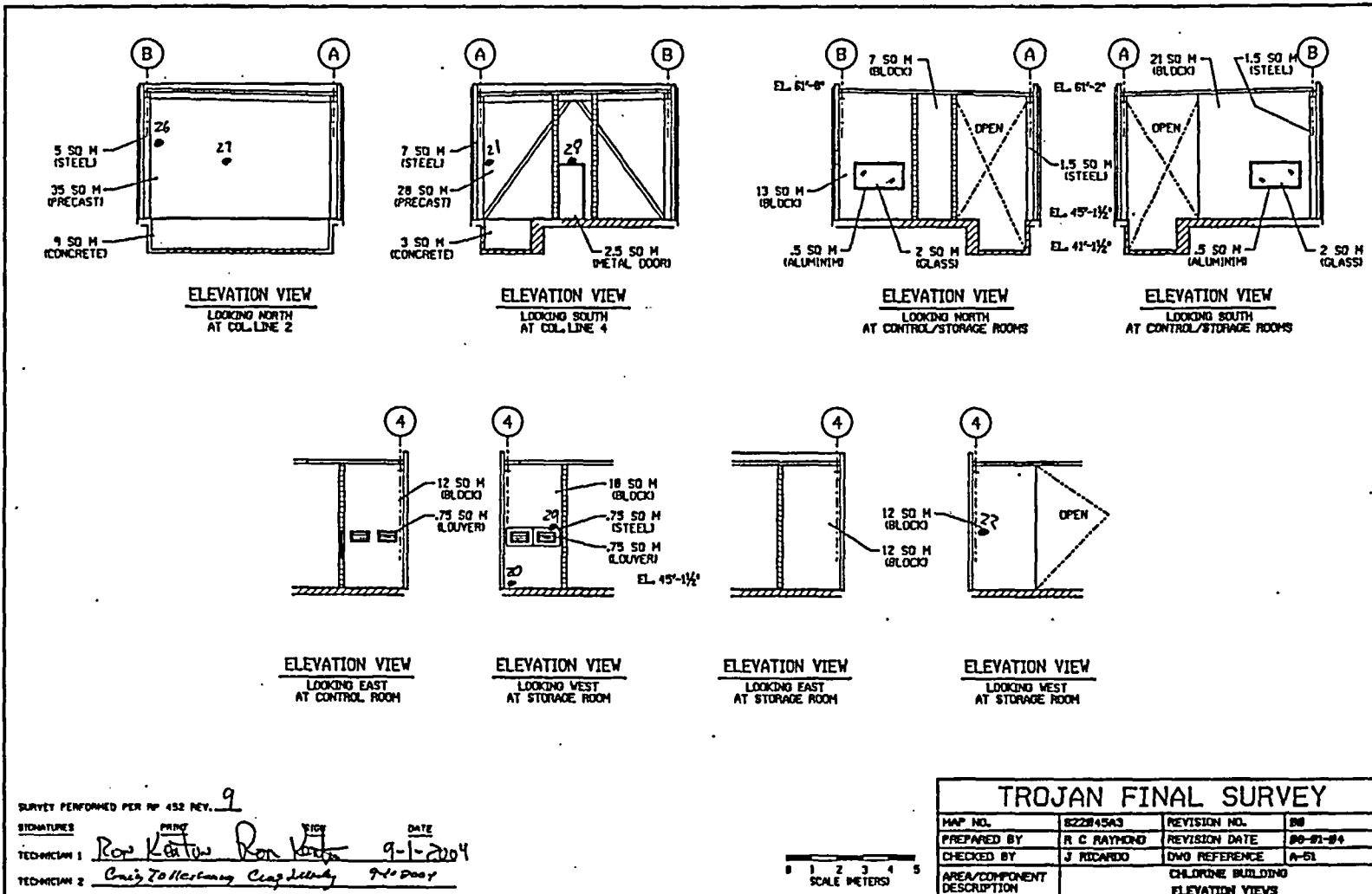


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S22045A
 Survey Unit Name: Chlorine Building Interior

Classification: Class 3
 Size (m²): 1,125

Static Measurement Locations Map



SURVEY PERFORMED PER # 452 REV. 9

SIGNATURES: PRINCIPAL: Ron Kerton, Ron Kerton; DATE: 9-1-2004

TECHNICIAN 1: Ron Kerton, Ron Kerton

TECHNICIAN 2: Craig Toft, Craig Toft

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S23032A
 Survey Unit Name: Guardhouse Interior

Classification: Class 3
 Size (m²): 1,025

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 5.972e+002
 Maximum Value : 1.521e+003
 Range : 9.238e+002
 Median : 9.469e+002
 Std. Deviation : 2.315e+002
 Mean : 9.182e+002
 95% UCL : 9.899e+002

Measurement Values

Location	Value	Location	Value
000001	1.025e+003	000018	6.168e+002
000002	8.604e+002	000019	1.053e+003
000003	1.033e+003	000020	1.041e+003
000004	1.521e+003	000021	1.194e+003
000005	8.644e+002	000022	8.997e+002
000006	7.033e+002	000023	1.245e+003
000007	6.365e+002	000024	1.151e+003
000008	7.308e+002	000025	5.972e+002
000009	6.601e+002	000026	6.640e+002
000010	9.626e+002	000027	9.508e+002
000011	9.469e+002	000028	6.365e+002
000012	1.053e+003	000029	6.719e+002
000013	9.980e+002	000030	1.069e+003
000014	9.469e+002		
000015	1.257e+003		
000016	6.090e+002		
000017	9.469e+002		

FINAL SURVEY RESULTS SUMMARY

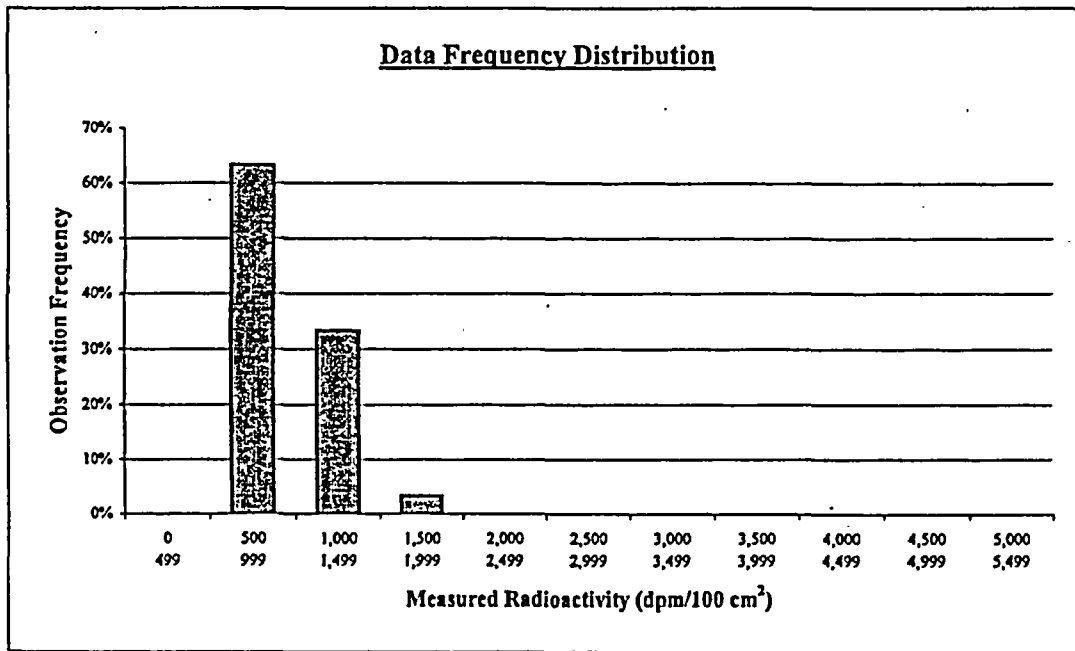
Survey Unit ID Code: S23032A
 Survey Unit Name: Guardhouse Interior

Classification: Class 3
 Size (m²): 1,025

Measurement Data Statistical Evaluation

Statistical Comparisons				Statistical Quantities	
Test	Calculated Value	Acceptance Criteria	Acceptable?	Range:	924
Range	924	1,157	Pass	Median:	947
Median	0.125	0.500	Pass	Mean:	918
Mean	918	10,500	Pass	Std Dev:	231
Std Dev	231	4,200	Pass	Minimum:	597
				Maximum:	1,521
				DCGL:	21,000

All data less than DCGL; Sign statistical test not required.



Plot Parameters		Number of Observations				Observation Frequency
# of measurements:	30	Interval	High End	Low End	Observations	Frequency
# of intervals:	11	1	499	0	0	0%
Interval increment:	500	2	999	500	19	63%
Minimum:	0	3	1,499	1,000	10	33%
Maximum:	5,499	4	1,999	1,500	1	3%
		5	2,499	2,000	0	0%
		6	2,999	2,500	0	0%
		7	3,499	3,000	0	0%
		8	3,999	3,500	0	0%
		9	4,499	4,000	0	0%
		10	4,999	4,500	0	0%
		11	5,499	5,000	0	0%
Total:					30	100%

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S23032A
Survey Unit Name: Guardhouse Interior

Classification: Class 3
Size (m²): 1,025

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 920

Scan Coverage (%): 5
Investigation Level: 21,000
Maximum Value: 1,506

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 42

Number of Measurements: 30
Investigation Level: 2,100
Maximum Value: 83

Discussion of Anomalous Measurement Data

Investigation Summary

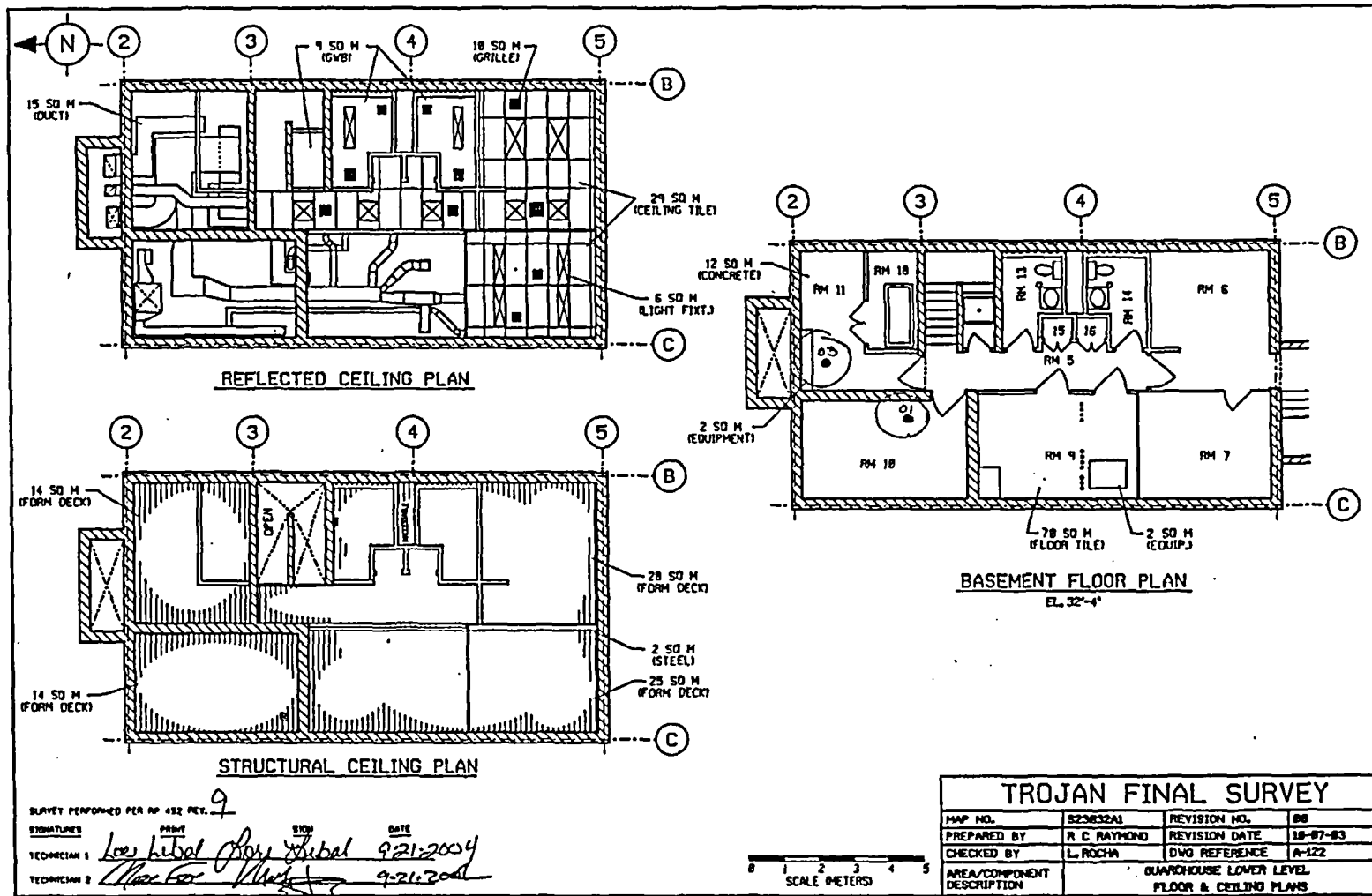
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S23032A
 Survey Unit Name: Guardhouse Interior

Classification: Class 3
 Size (m²): 1,025

Static Measurement Locations Map

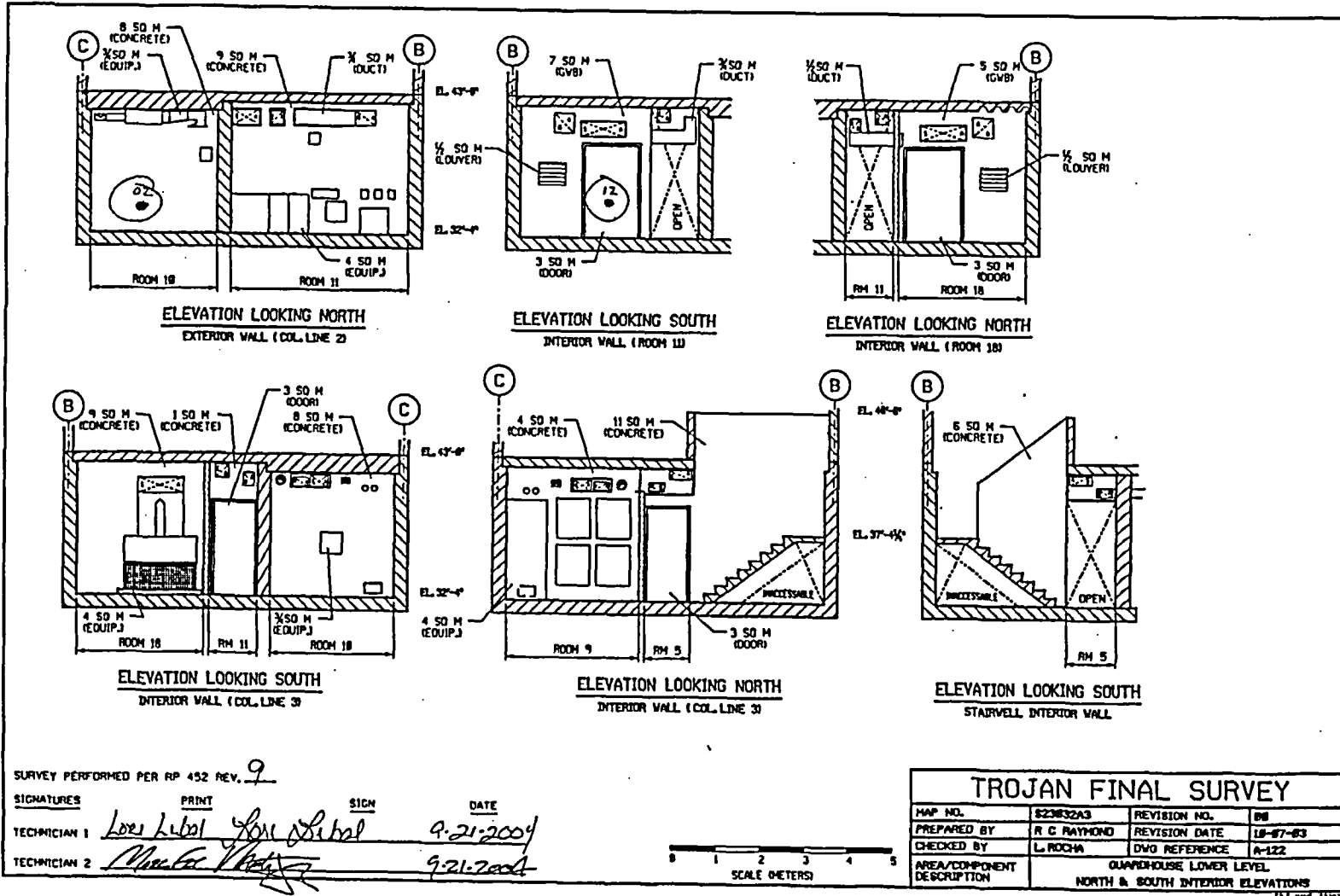


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S23032A
 Survey Unit Name: Guardhouse Interior

Classification: Class 3
 Size (m²): 1,025

Static Measurement Locations Map

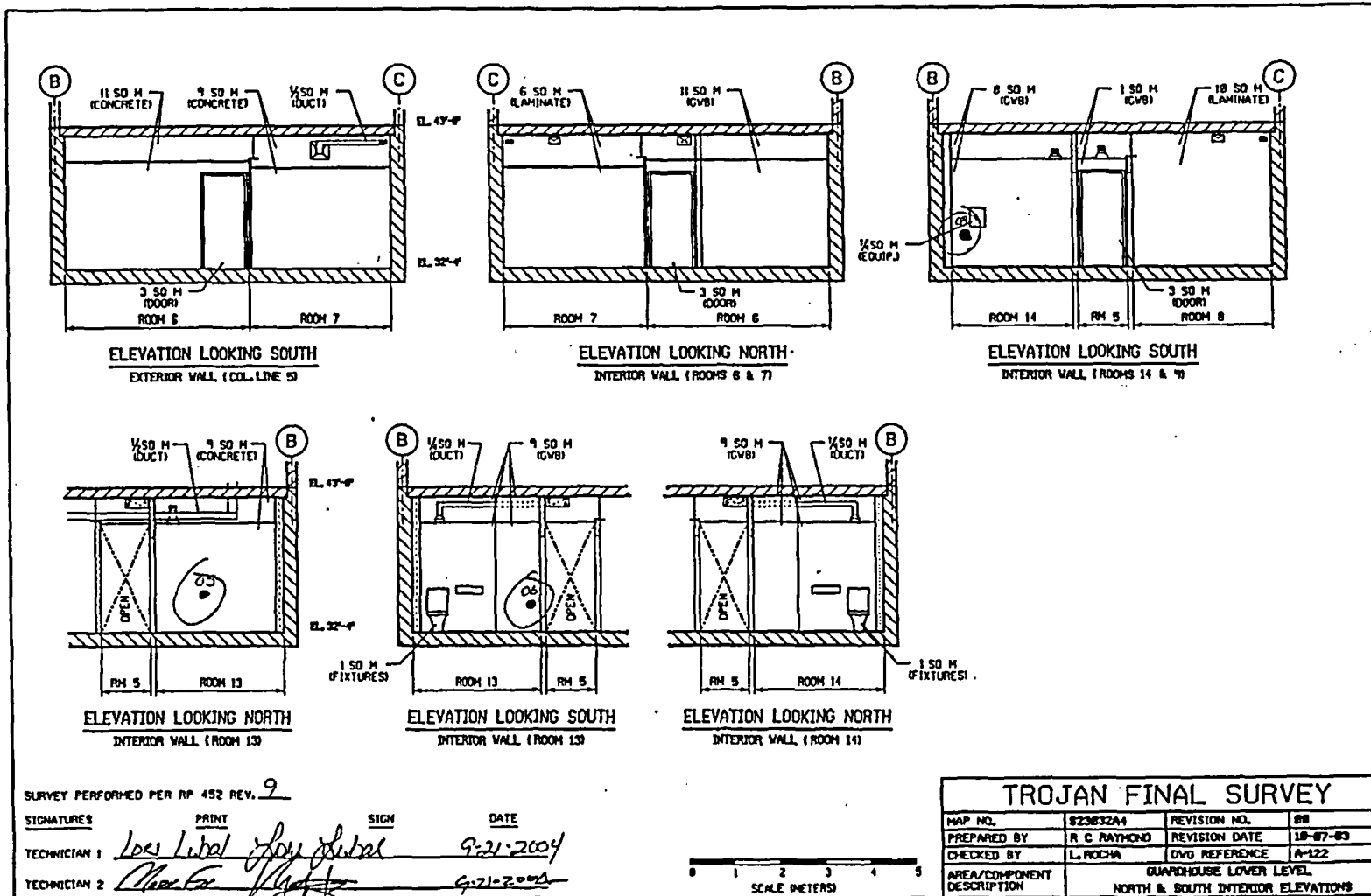


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S23032A
 Survey Unit Name: Guardhouse Interior

Classification: Class 3
 Size (m²): 1,025

Static Measurement Locations Map

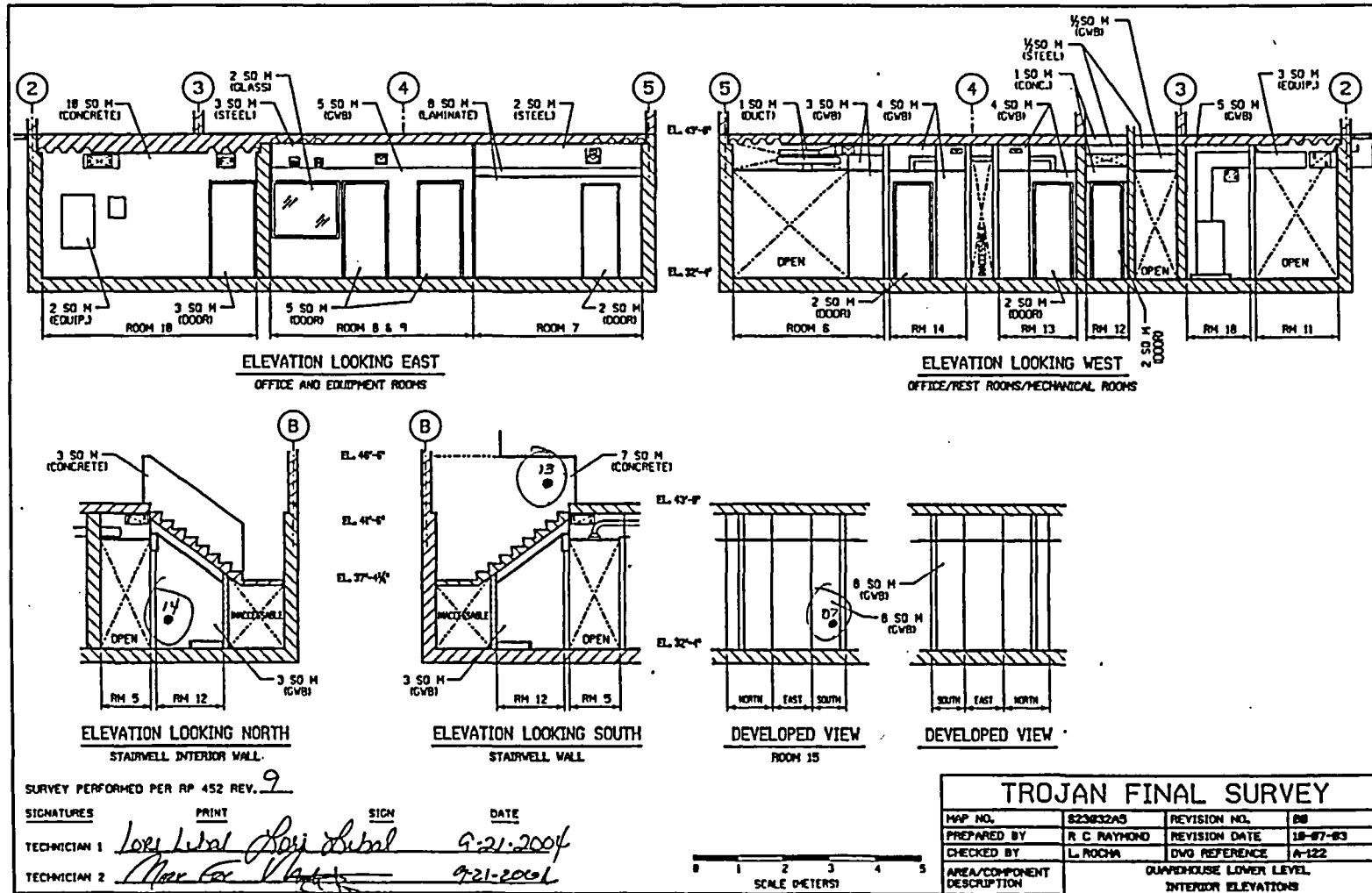


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S23032A
 Survey Unit Name: Guardhouse Interior

Classification: Class 3
 Size (m²): 1,025

Static Measurement Locations Map

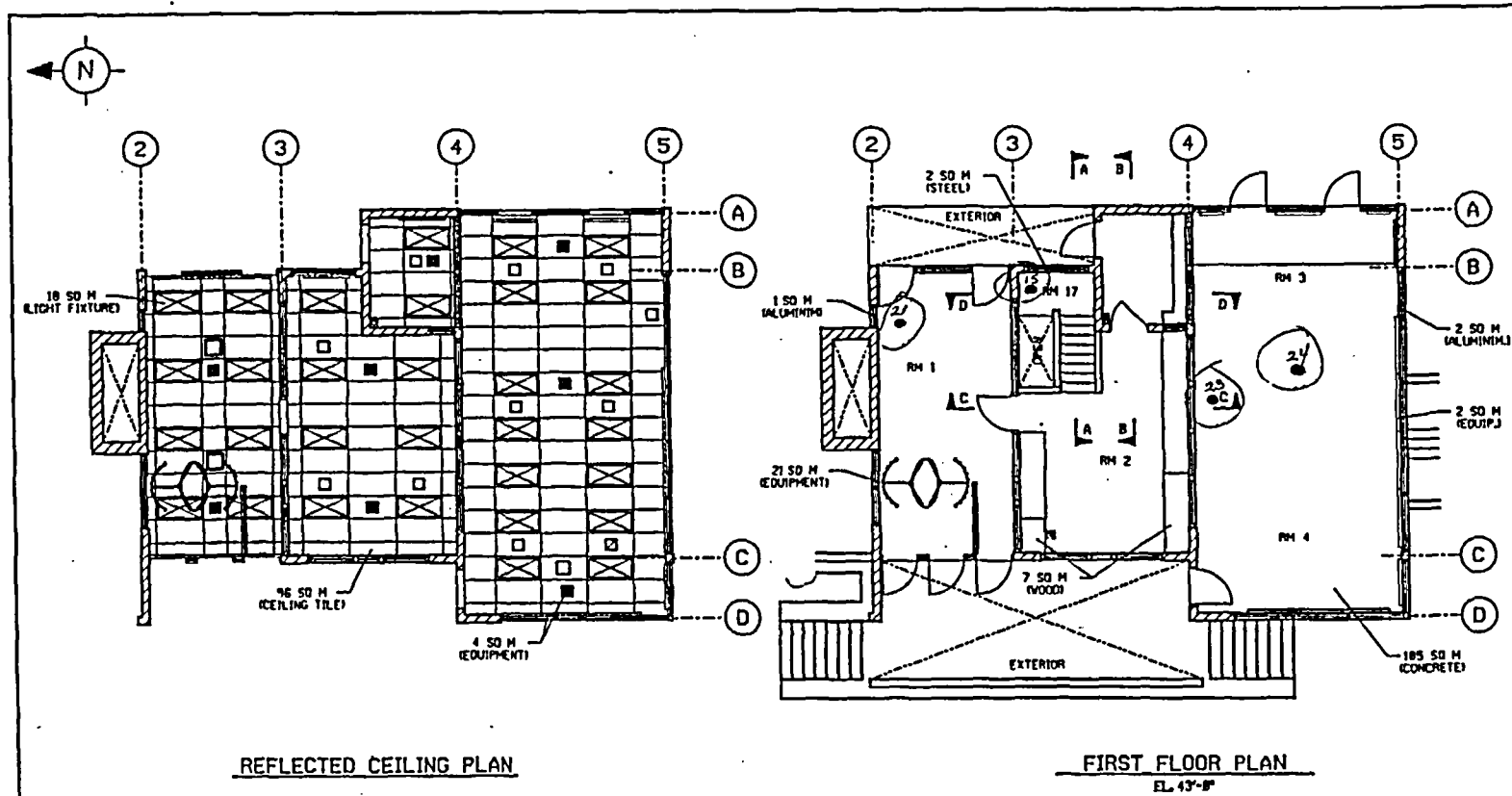


FINAL SURVEY RESULTS SUMMARY

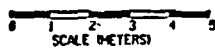
Survey Unit ID Code: S23032A
 Survey Unit Name: Guardhouse Interior

Classification: Class 3
 Size (m²): 1,025

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 9
 SIGNATURES: *Loe Libal* (PRINT), *Loe Libal* (SIGN), DATE: 9-21-2004
 TECHNICIAN 1: *Loe Libal*
 TECHNICIAN 2: *Marc...* DATE: 9-21-2004



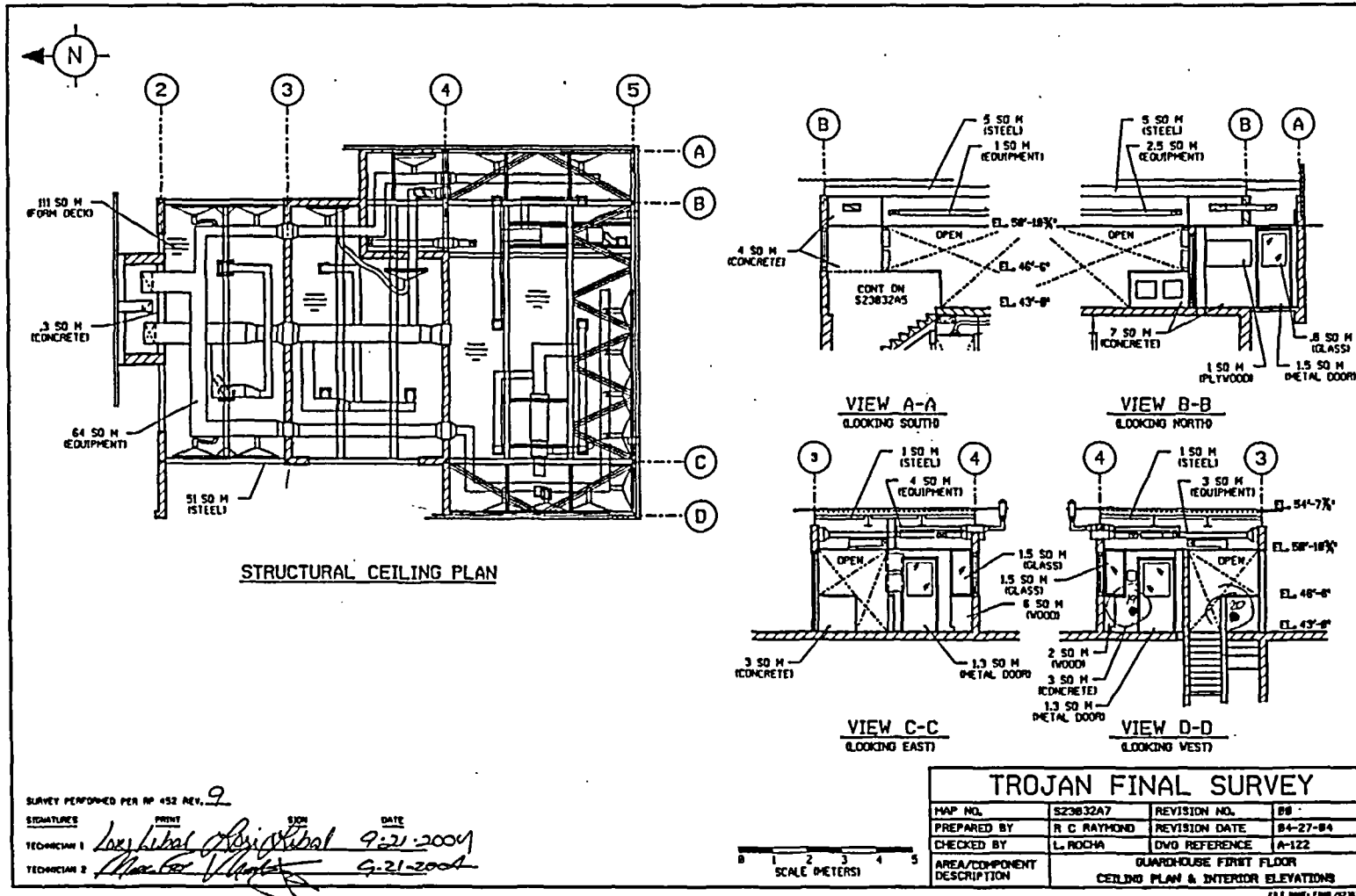
TROJAN FINAL SURVEY			
MAP NO.	S23032A6	REVISION NO.	00
PREPARED BY	R. C. RAYMOND	REVISION DATE	04-27-04
CHECKED BY	L. ROCHA	DWG REFERENCE	A-122
AREA/COMPONENT DESCRIPTION	GUARDHOUSE FIRST FLOOR & CEILING PLANS		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S23032A
 Survey Unit Name: Guardhouse Interior

Classification: Class 3
 Size (m²): 1,025

Static Measurement Locations Map

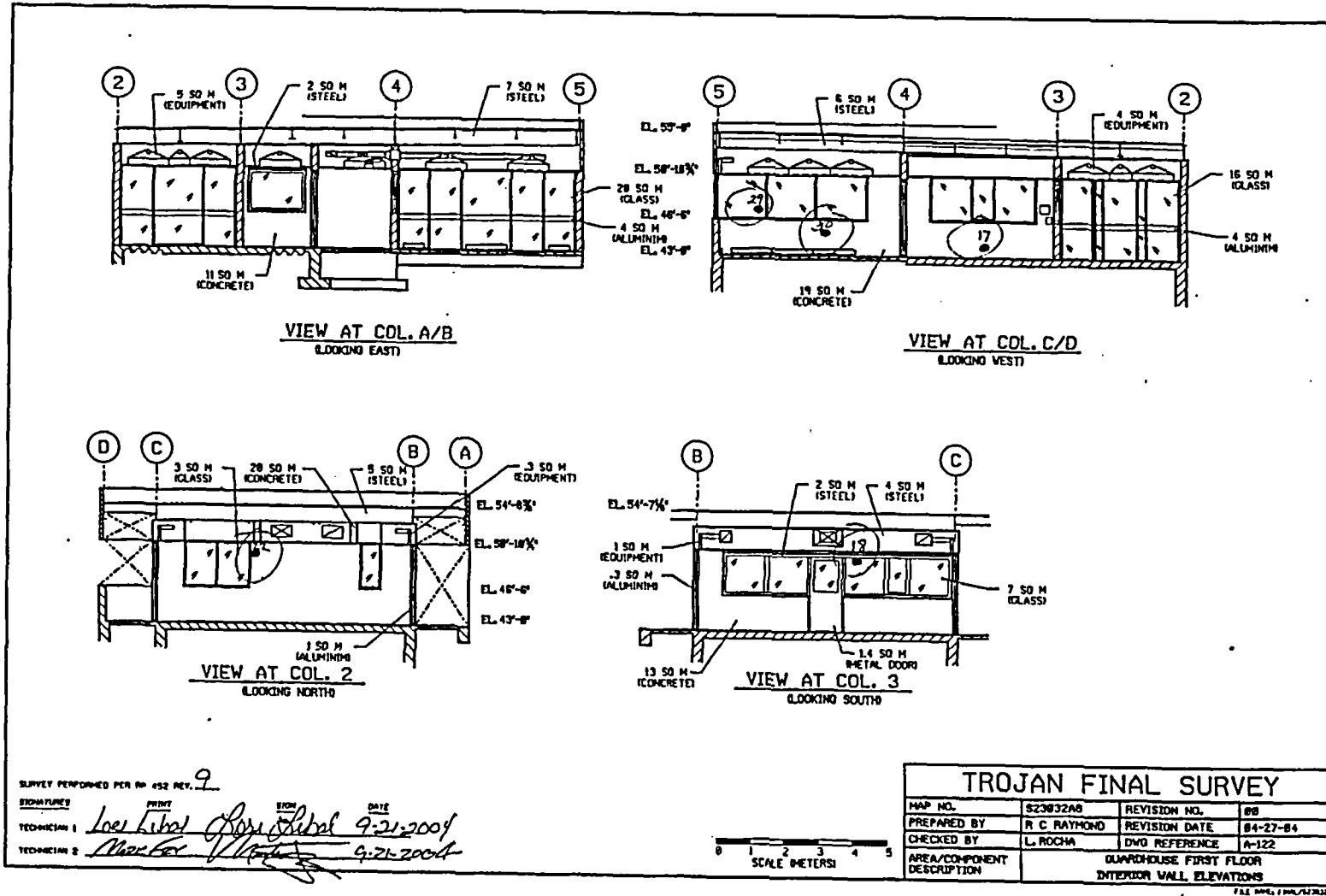


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S23032A
 Survey Unit Name: Guardhouse Interior

Classification: Class 3
 Size (m²): 1,025

Static Measurement Locations Map

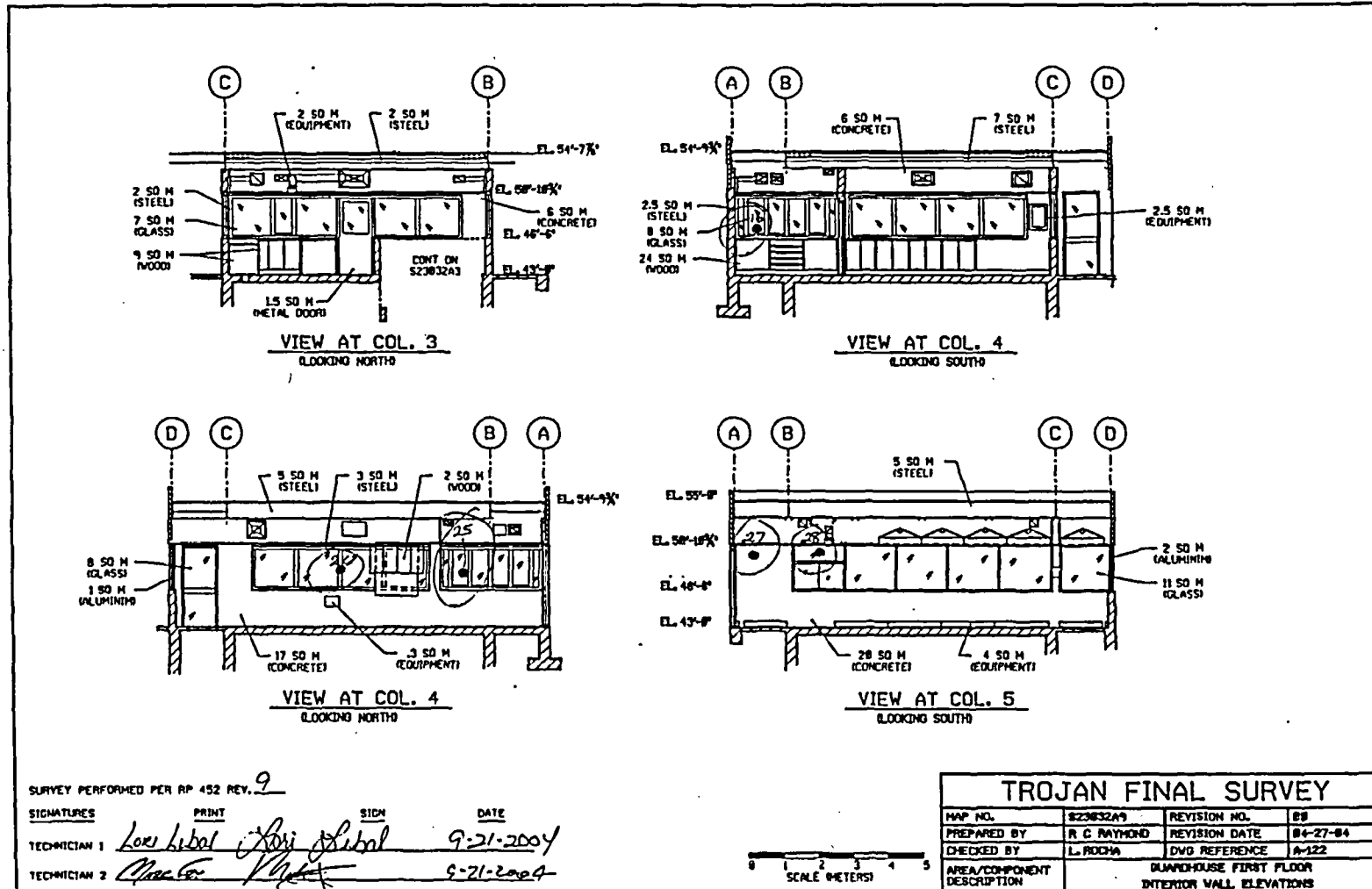


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S23032A
 Survey Unit Name: Guardhouse Interior

Classification: Class 3
 Size (m²): 1,025

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S24038A
 Survey Unit Name: Technical Support Center Interior

Classification: Class 3
 Size (m²): 2,951

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 5.674e+002
 Maximum Value : 1.725e+003
 Range : 1.158e+003
 Median : 8.071e+002
 Std. Deviation : 2.226e+002
 Mean : 8.514e+002
 95% UCL : 9.204e+002

Measurement Values

Location	Value	Location	Value
000001	8.243e+002	000018	8.933e+002
000002	1.097e+003	000019	7.706e+002
000003	7.937e+002	000020	1.001e+003
000004	7.131e+002	000021	9.240e+002
000005	7.476e+002	000022	7.898e+002
000006	7.323e+002	000023	6.748e+002
000007	6.825e+002	000024	6.863e+002
000008	6.250e+002	000025	6.786e+002
000009	1.031e+003	000026	7.630e+002
000010	1.139e+003	000027	8.397e+002
000011	7.170e+002	000028	8.205e+002
000012	5.674e+002	000029	1.725e+003
000013	6.096e+002	000030	8.243e+002
000014	8.933e+002		
000015	8.972e+002		
000016	1.051e+003		
000017	1.031e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S24038A
 Survey Unit Name: Technical Support Center Interior

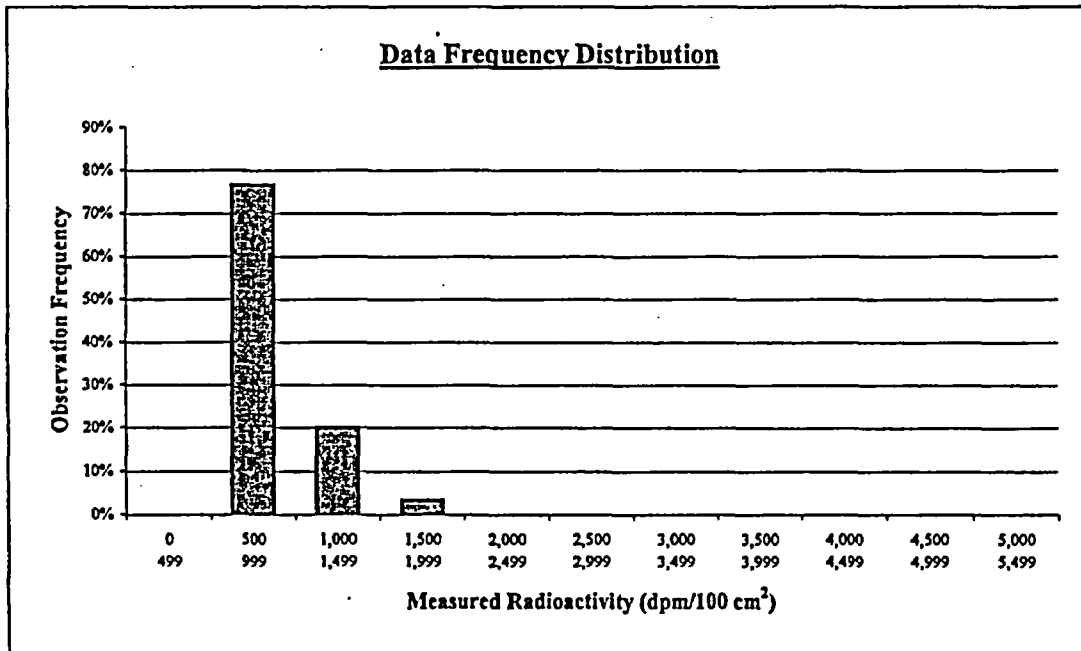
Classification: Class 3
 Size (m²): 2,951

Measurement Data Statistical Evaluation

Statistical Comparisons			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	1,158	1,113	See comment below
Median	0.198	0.500	Pass
Mean	852	10,500	Pass
Std Dev	223	4,200	Pass

Statistical Quantities	
Range:	1,158
Median:	808
Mean:	852
Std Dev:	223
Minimum:	567
Maximum:	1,725
DCGL:	21,000

All data less than DCGL; Sign statistical test not required.



Plot Parameters	
# of measurements:	30
# of intervals:	11
Interval increment:	500
Minimum:	0
Maximum:	5,499

Interval	High End	Low End	Number of Observations	Observation Frequency
1	499	0	0	0%
2	999	500	23	77%
3	1,499	1,000	6	20%
4	1,999	1,500	1	3%
5	2,499	2,000	0	0%
6	2,999	2,500	0	0%
7	3,499	3,000	0	0%
8	3,999	3,500	0	0%
9	4,499	4,000	0	0%
10	4,999	4,500	0	0%
11	5,499	5,000	0	0%
Total:			30	100%

Comment:

Range failure is a test artifact due to a small standard deviation and a single value greater than 1,500 dpm, resulting in a range value that is slightly more than 5 times the standard deviation. All data values are valid and accepted for final survey release record.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S24038A

Classification: Class 3

Survey Unit Name: Technical Support Center Interior

Size (m²): 2,951

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 3

Measurement Units: dpm/100cm²

Investigation Level: 21,000

Minimum Value: 844

Maximum Value: 2,571

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 2,100

Minimum Value: 46

Maximum Value: 82

Discussion of Anomalous Measurement Data

Investigation Summary

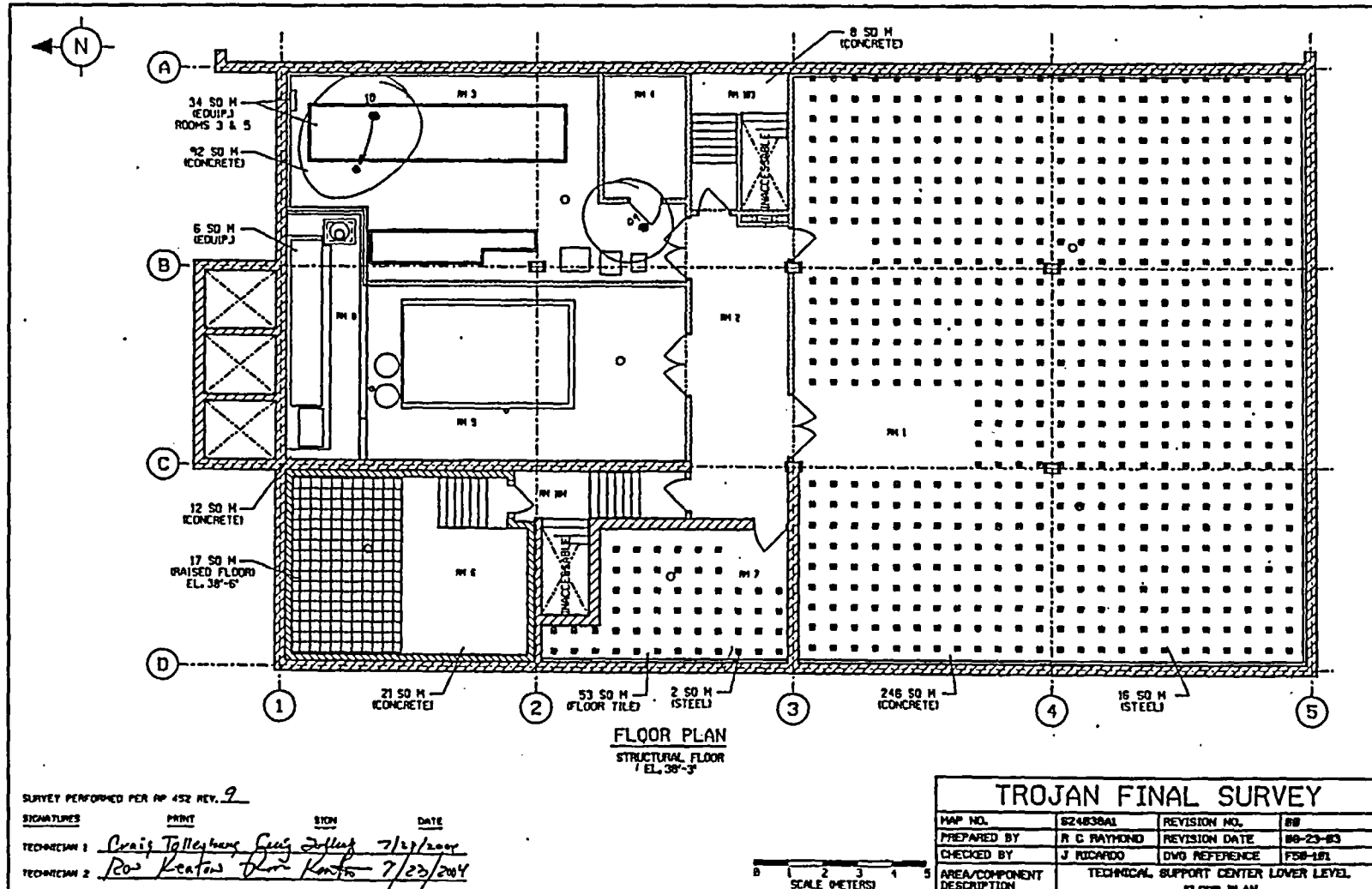
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S24038A
 Survey Unit Name: Technical Support Center Interior

Classification: Class 3
 Size (m²): 2,951

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 9

SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	<i>Craig Tolleshaug</i>	<i>Craig Tolleshaug</i>	7/17/2004
TECHNICIAN 2	<i>Rob Keaton</i>	<i>Rob Keaton</i>	7/23/2004

FINAL SURVEY RESULTS SUMMARY

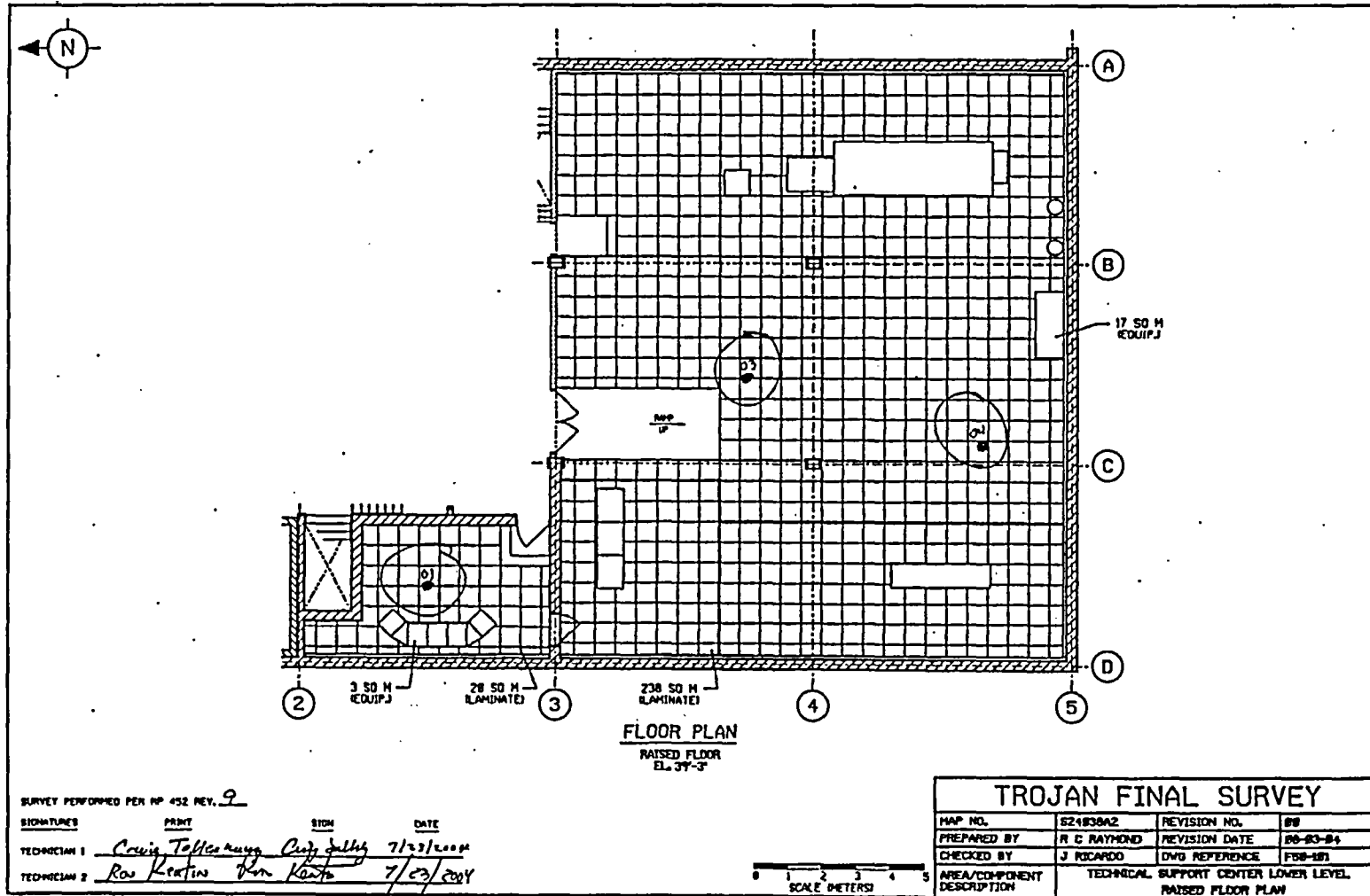
Survey Unit ID Code: S24038A

Survey Unit Name: Technical Support Center Interior

Classification: Class 3

Size (m²): 2,951

Static Measurement Locations Map



SURVEY PERFORMED PER HP 452 REV. 9

SIGNATURE	PRINT	SIGN	DATE
TECHNICIAN 1	<i>Craig Tolles</i>	<i>Craig Tolles</i>	7/23/2004
TECHNICIAN 2	<i>Ron Kertin</i>	<i>Ron Kertin</i>	7/23/2004

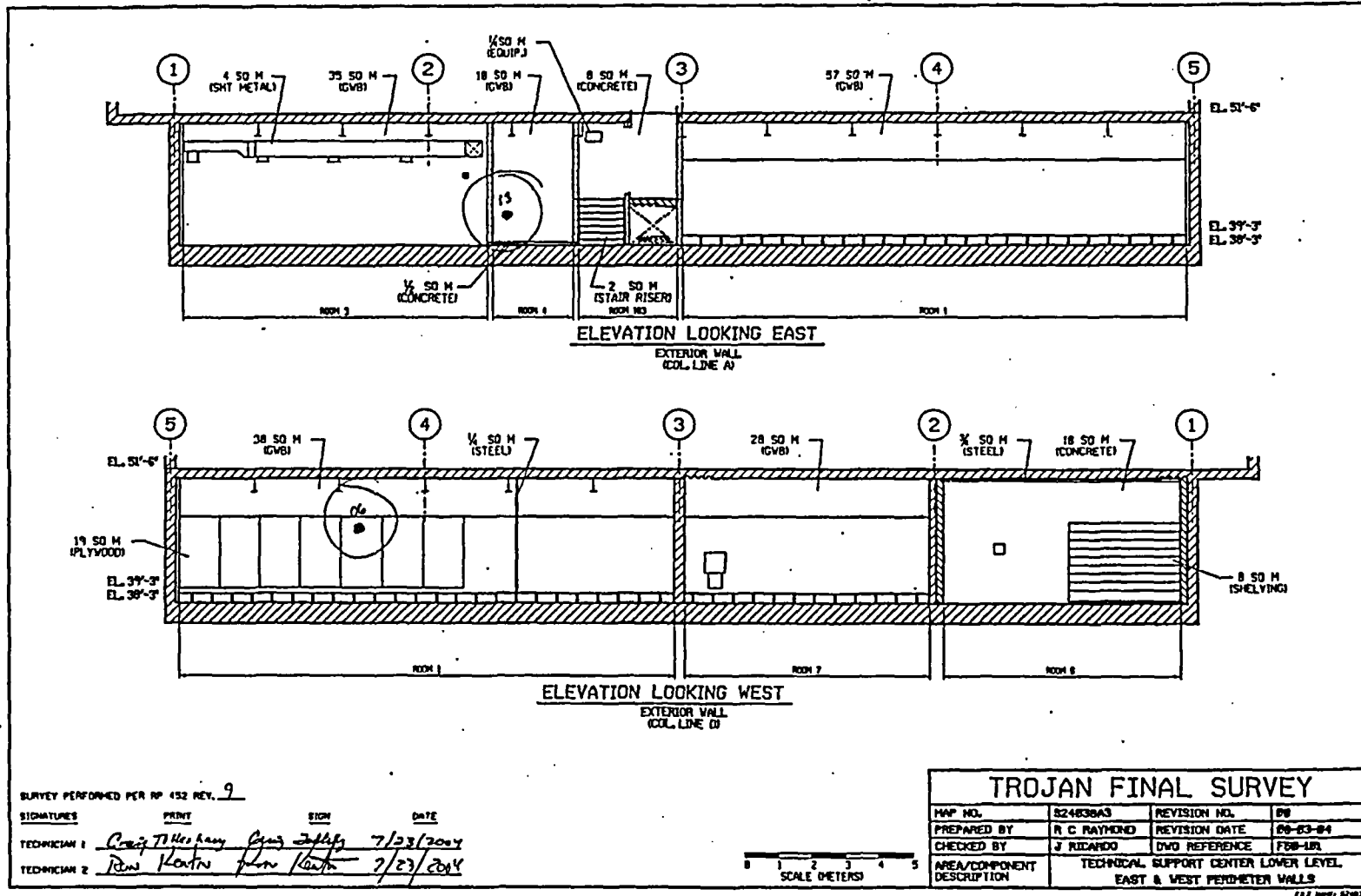
0 1 2 3 4 5
SCALE METERS

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S24038A
 Survey Unit Name: Technical Support Center Interior

Classification: Class 3
 Size (m²): 2,951

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 9

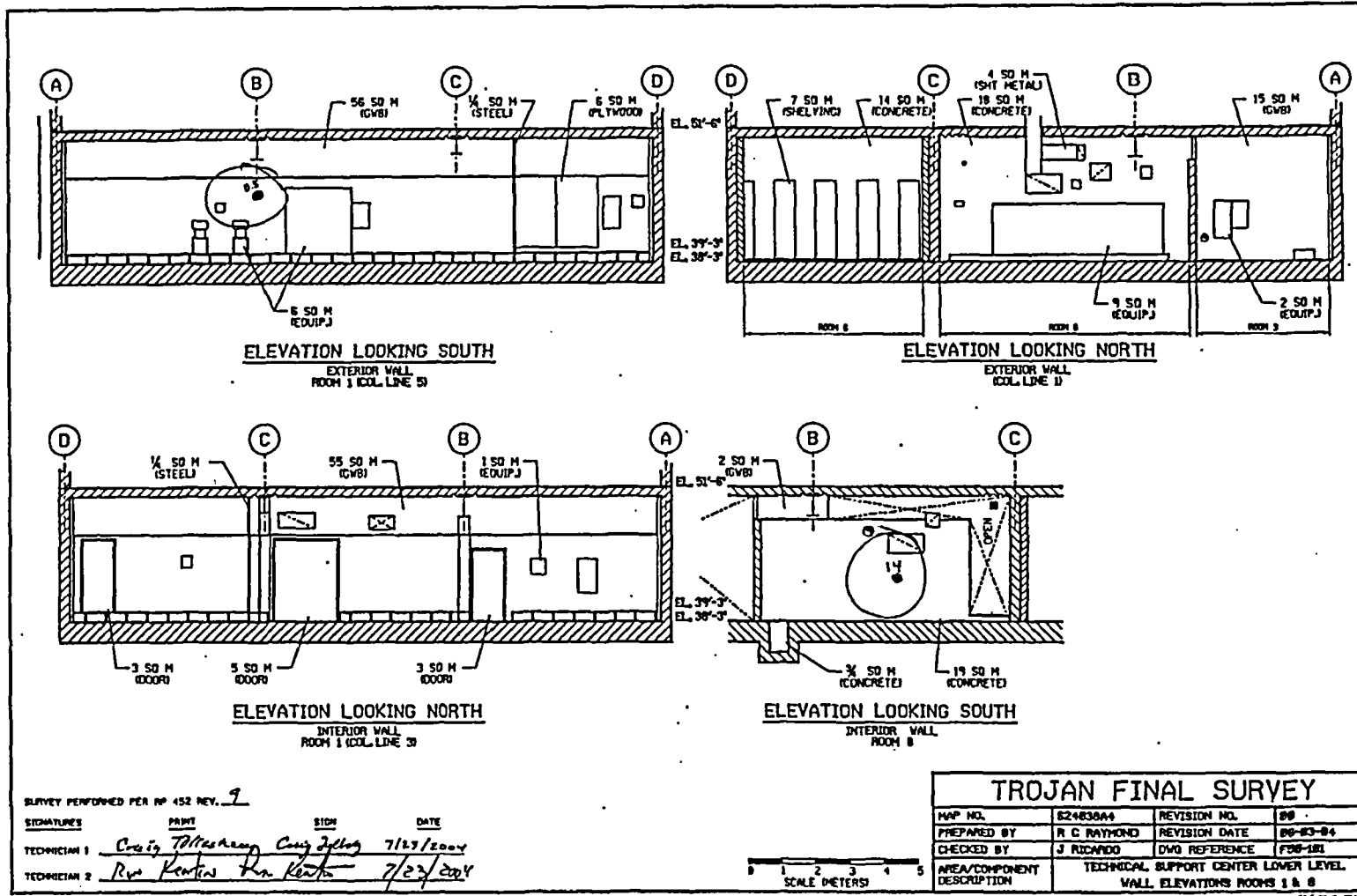
SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	Craig Thomas	[Signature]	7/23/2004
TECHNICIAN 2	Ron Kenton	[Signature]	7/23/2004

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S24038A
 Survey Unit Name: Technical Support Center Interior

Classification: Class 3
 Size (m²): 2,951

Static Measurement Locations Map

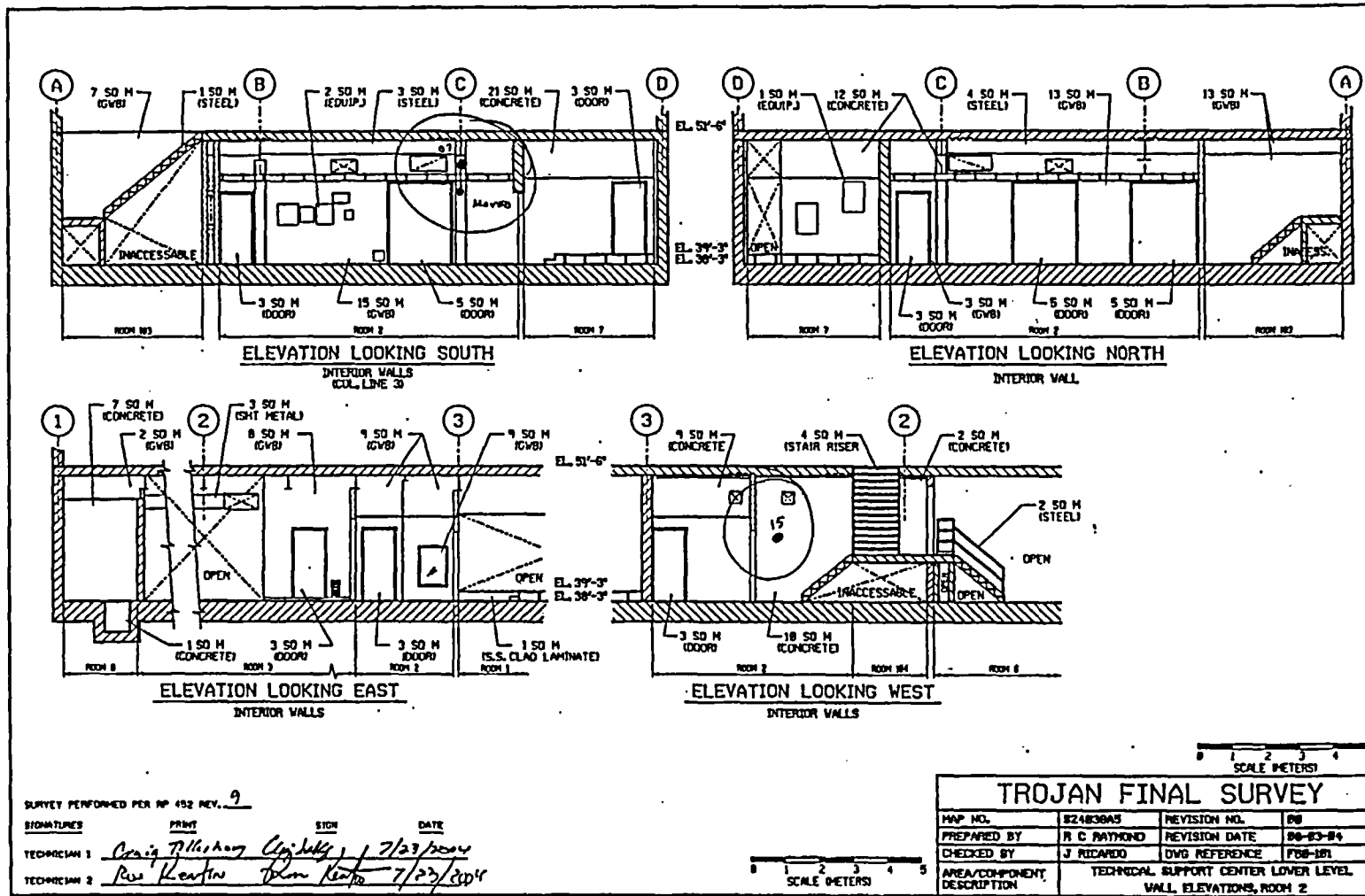


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S24038A
 Survey Unit Name: Technical Support Center Interior

Classification: Class 3
 Size (m²): 2,951

Static Measurement Locations Map



SURVEY PERFORMED PER HP 452 REV. 9

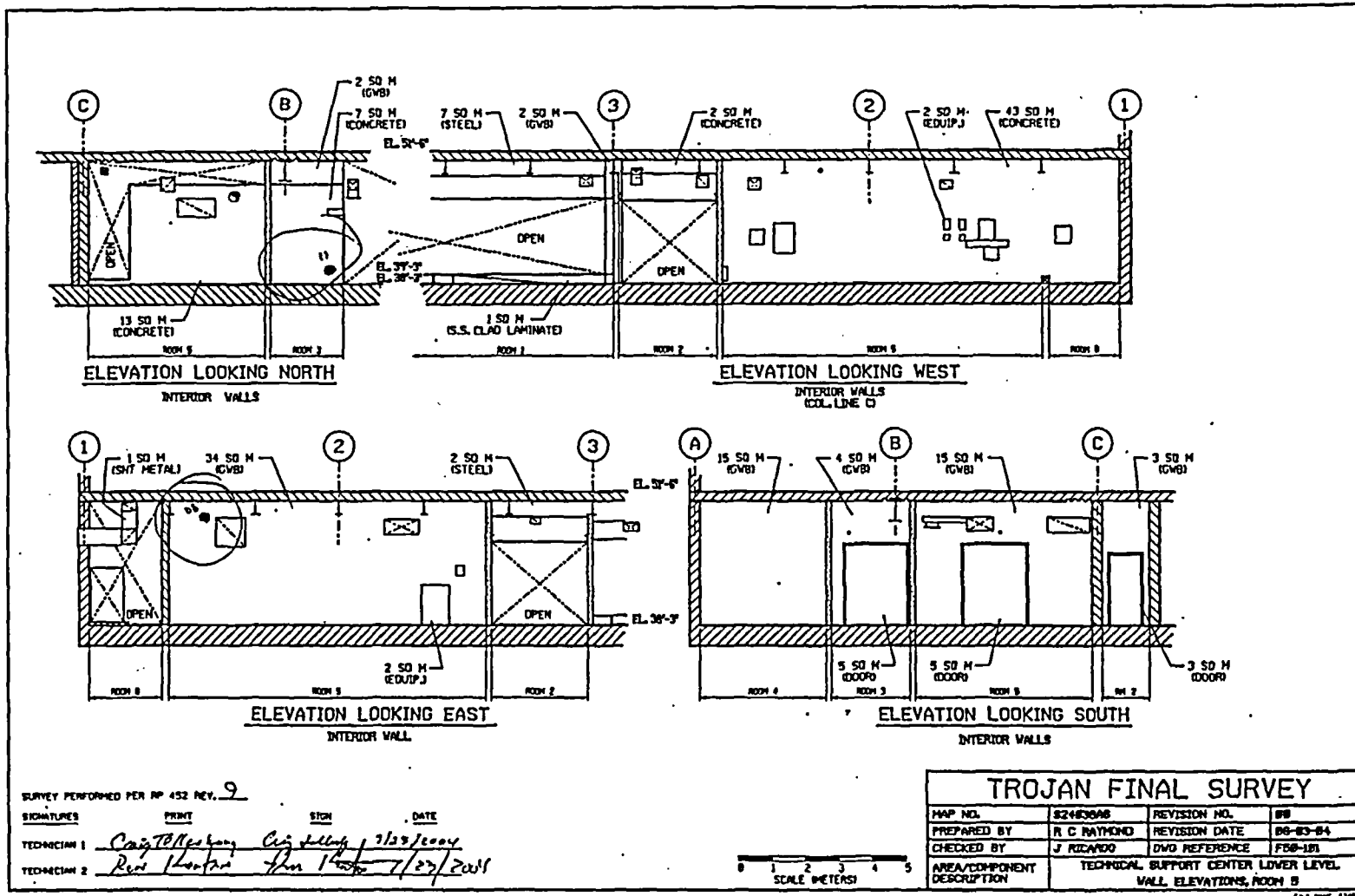
SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	Craig P. [Signature]	[Signature]	7/23/2004
TECHNICIAN 2	Rae Keating	[Signature]	7/23/2004

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S24038A
 Survey Unit Name: Technical Support Center Interior

Classification: Class 3
 Size (m²): 2,951

Static Measurement Locations Map

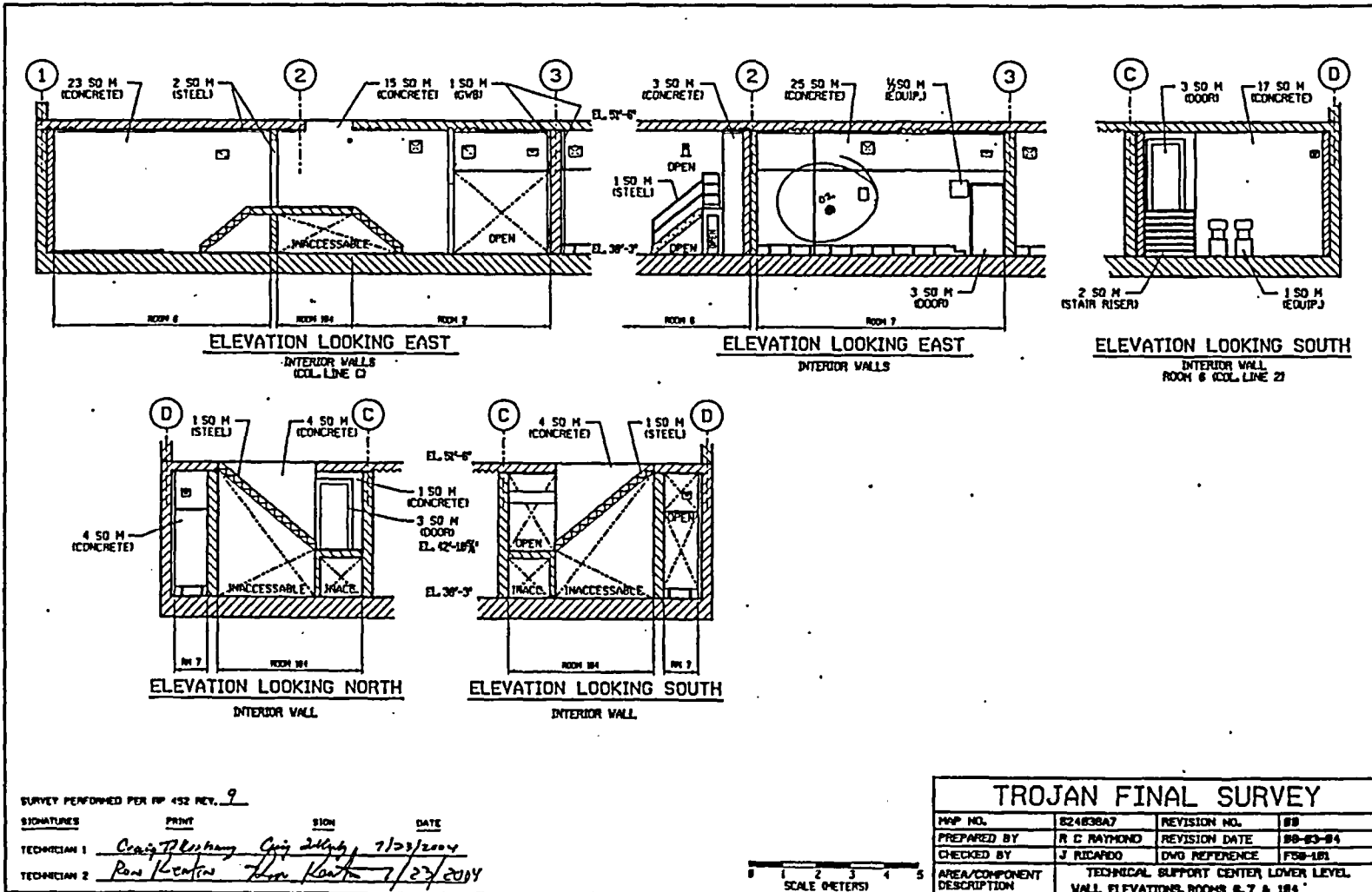


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S24038A
 Survey Unit Name: Technical Support Center Interior

Classification: Class 3
 Size (m²): 2,951

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 9

SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	Craig Pleshinsky	Craig Pleshinsky	7/23/2004
TECHNICIAN 2	Ron Korten	Ron Korten	7/23/2004

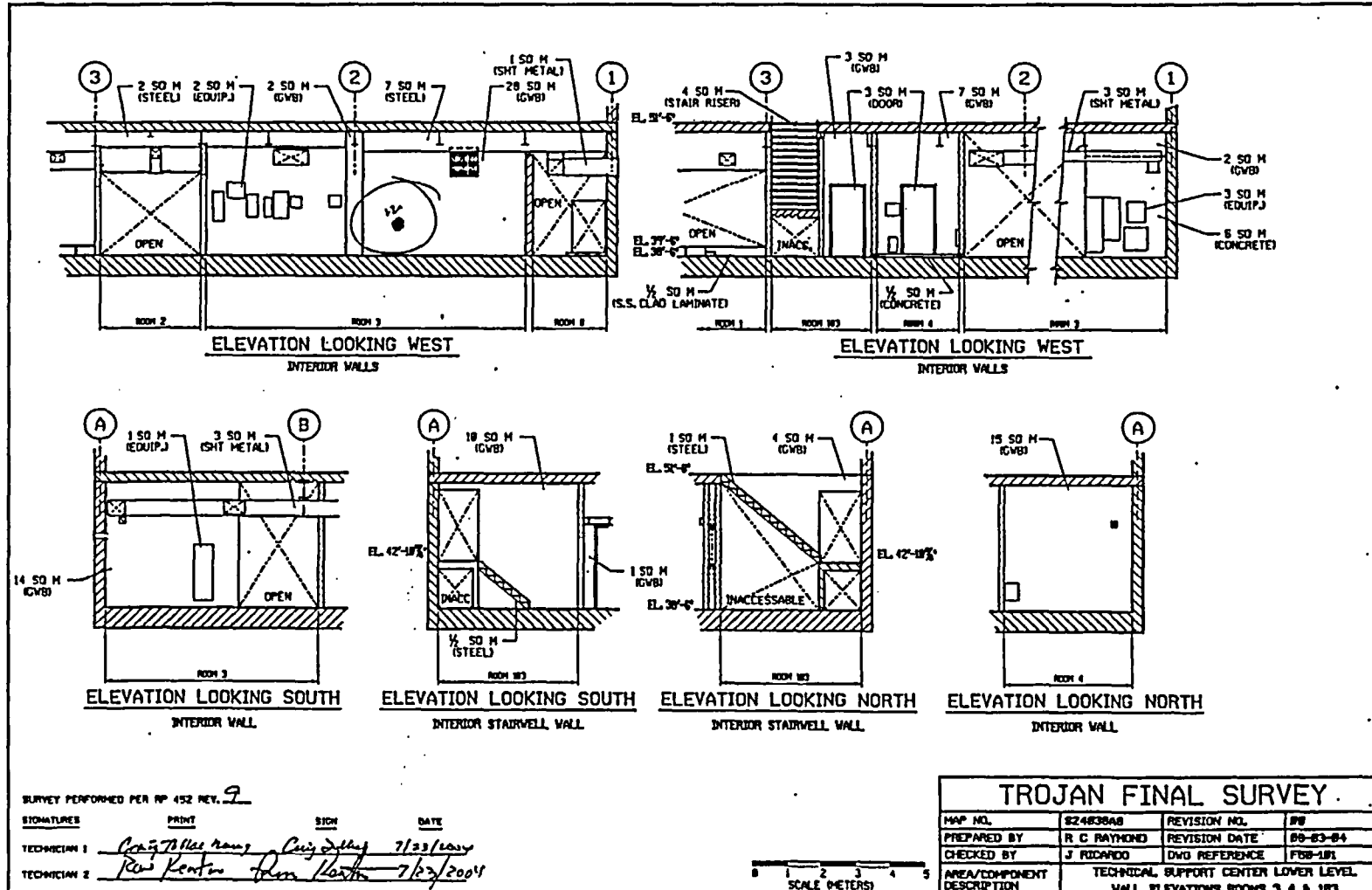
TROJAN FINAL SURVEY			
MAP NO.	S24038A7	REVISION NO.	00
PREPARED BY	R C RAYMOND	REVISION DATE	08-03-04
CHECKED BY	J RICARDO	DWG REFERENCE	FS0-LR1
AREA/COMPONENT DESCRIPTION	TECHNICAL SUPPORT CENTER LOWER LEVEL WALL ELEVATIONS, ROOMS 6, 7 & 184		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S24038A
 Survey Unit Name: Technical Support Center Interior

Classification: Class 3
 Size (m²): 2,951

Static Measurement Locations Map

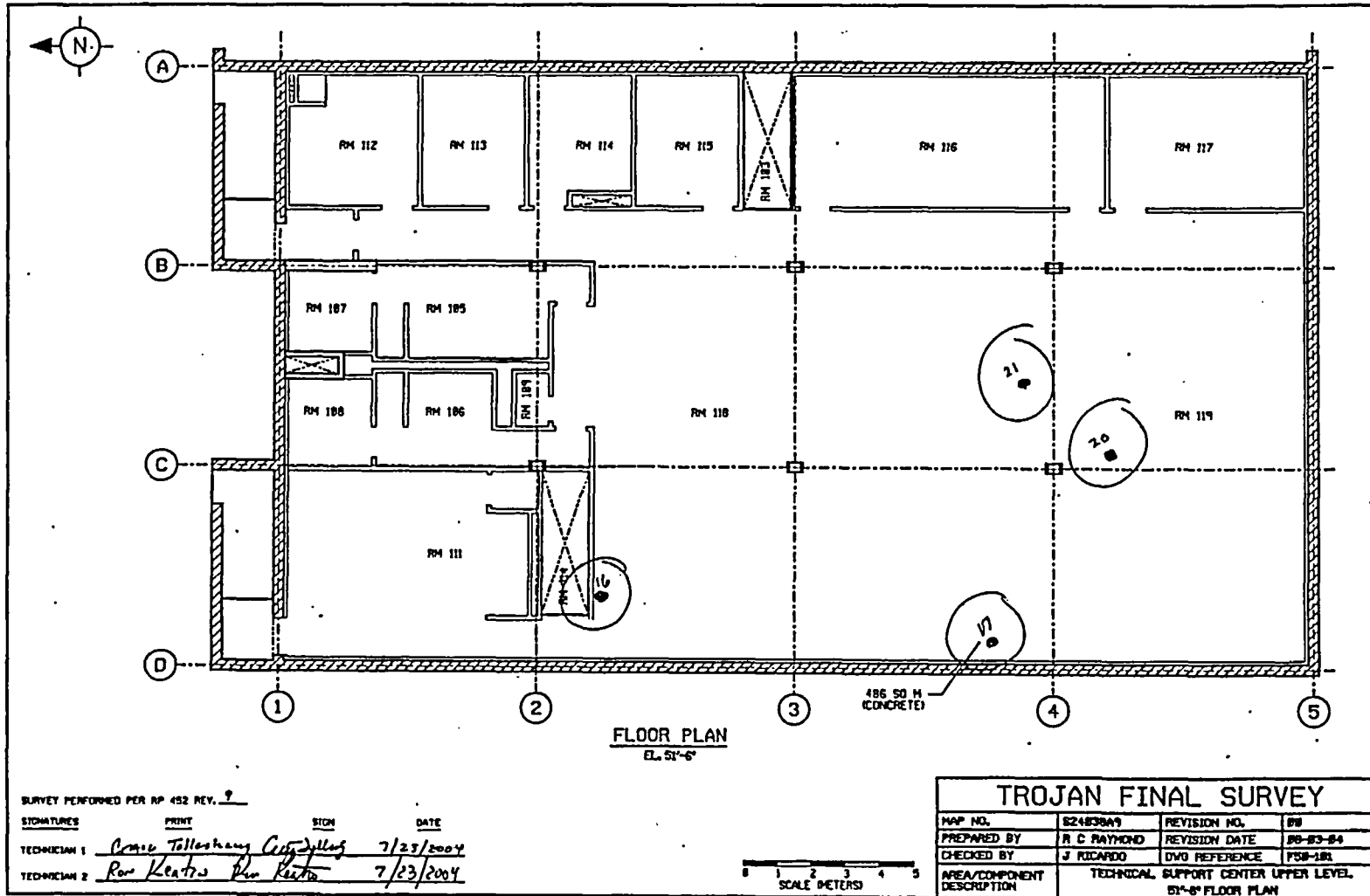


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S24038A
 Survey Unit Name: Technical Support Center Interior

Classification: Class 3
 Size (m²): 2,951

Static Measurement Locations Map

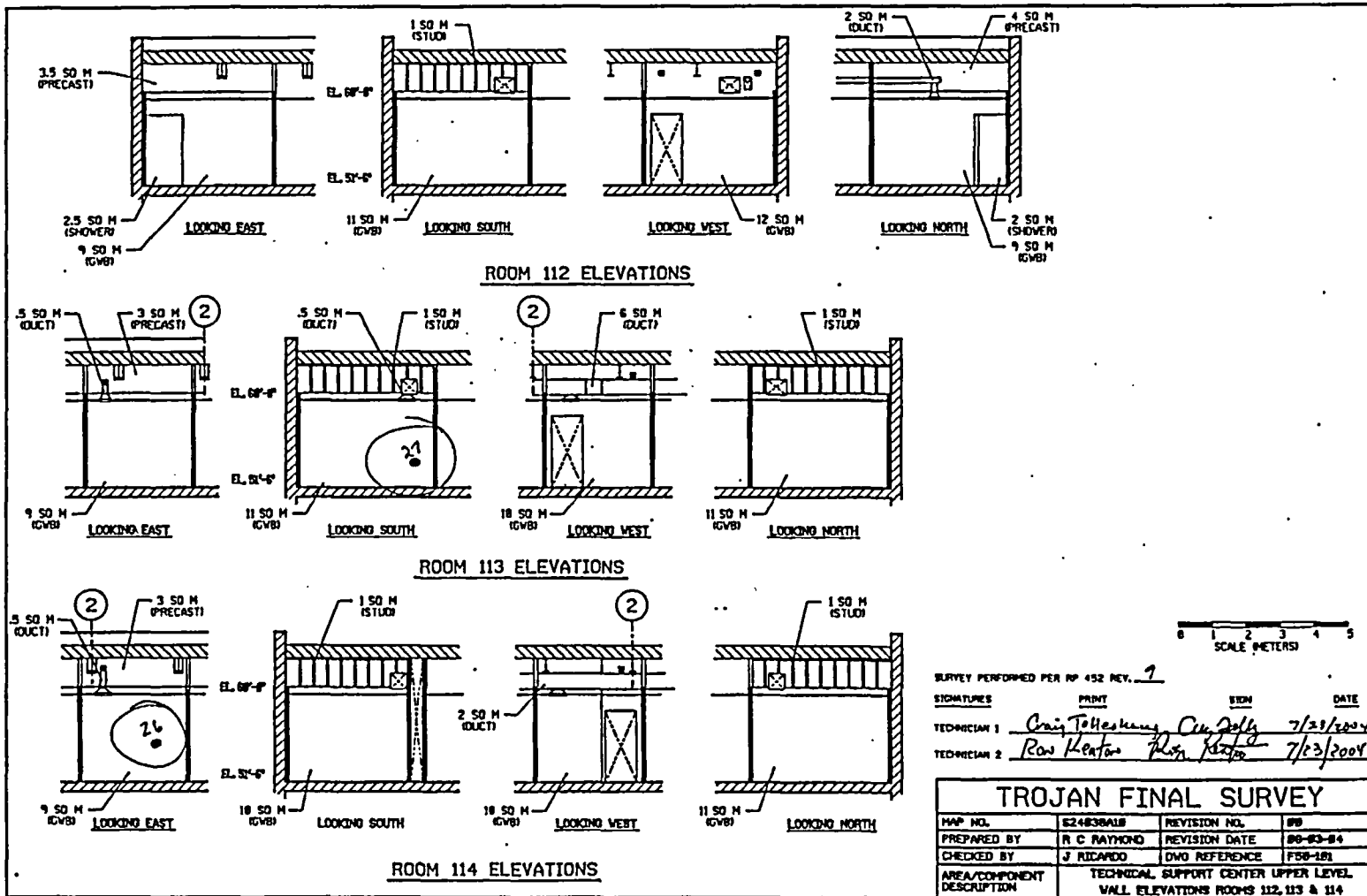


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S24038A
 Survey Unit Name: Technical Support Center Interior

Classification: Class 3
 Size (m²): 2,951

Static Measurement Locations Map

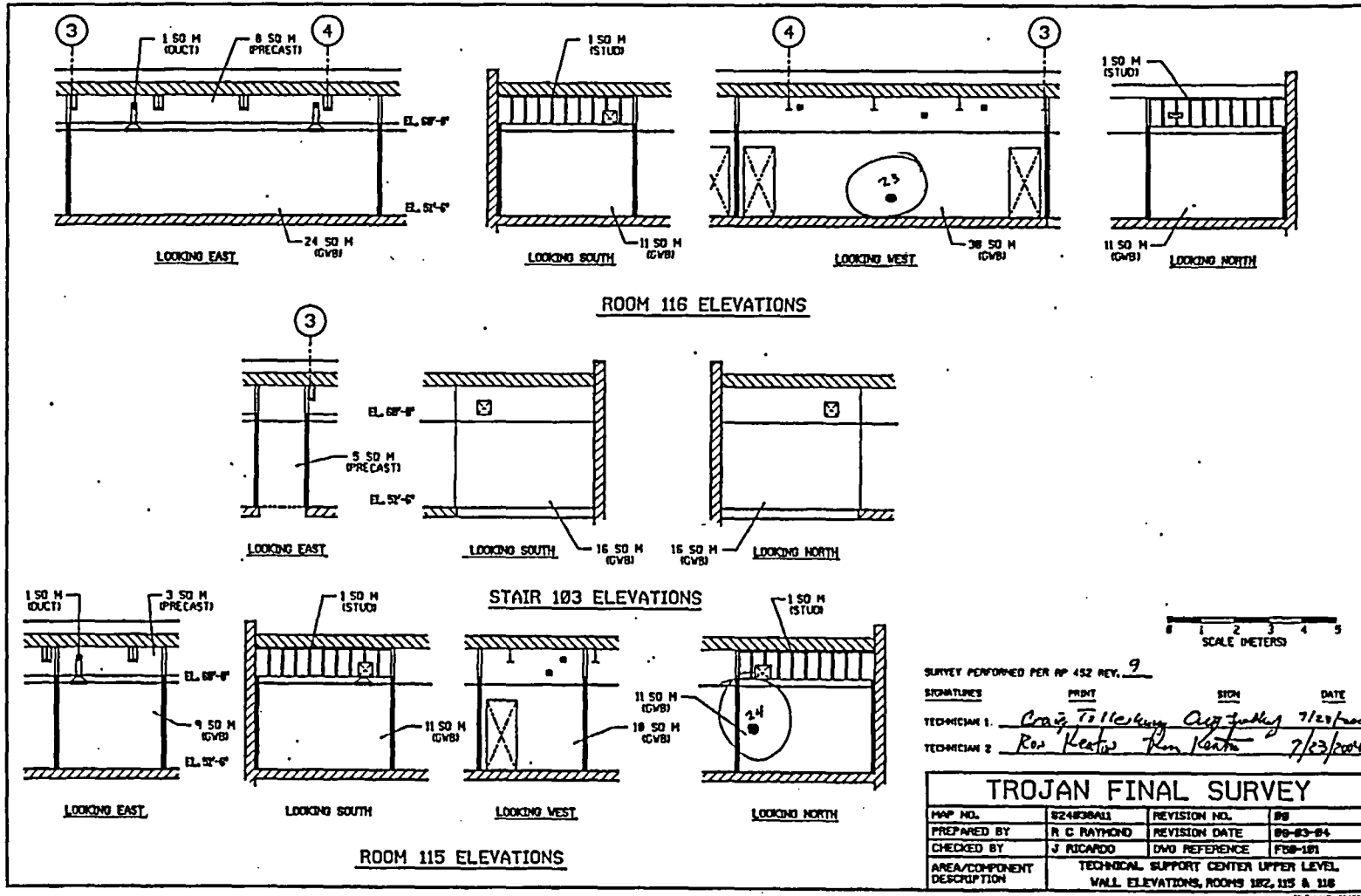


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S24038A
 Survey Unit Name: Technical Support Center Interior

Classification: Class 3
 Size (m²): 2,951

Static Measurement Locations Map

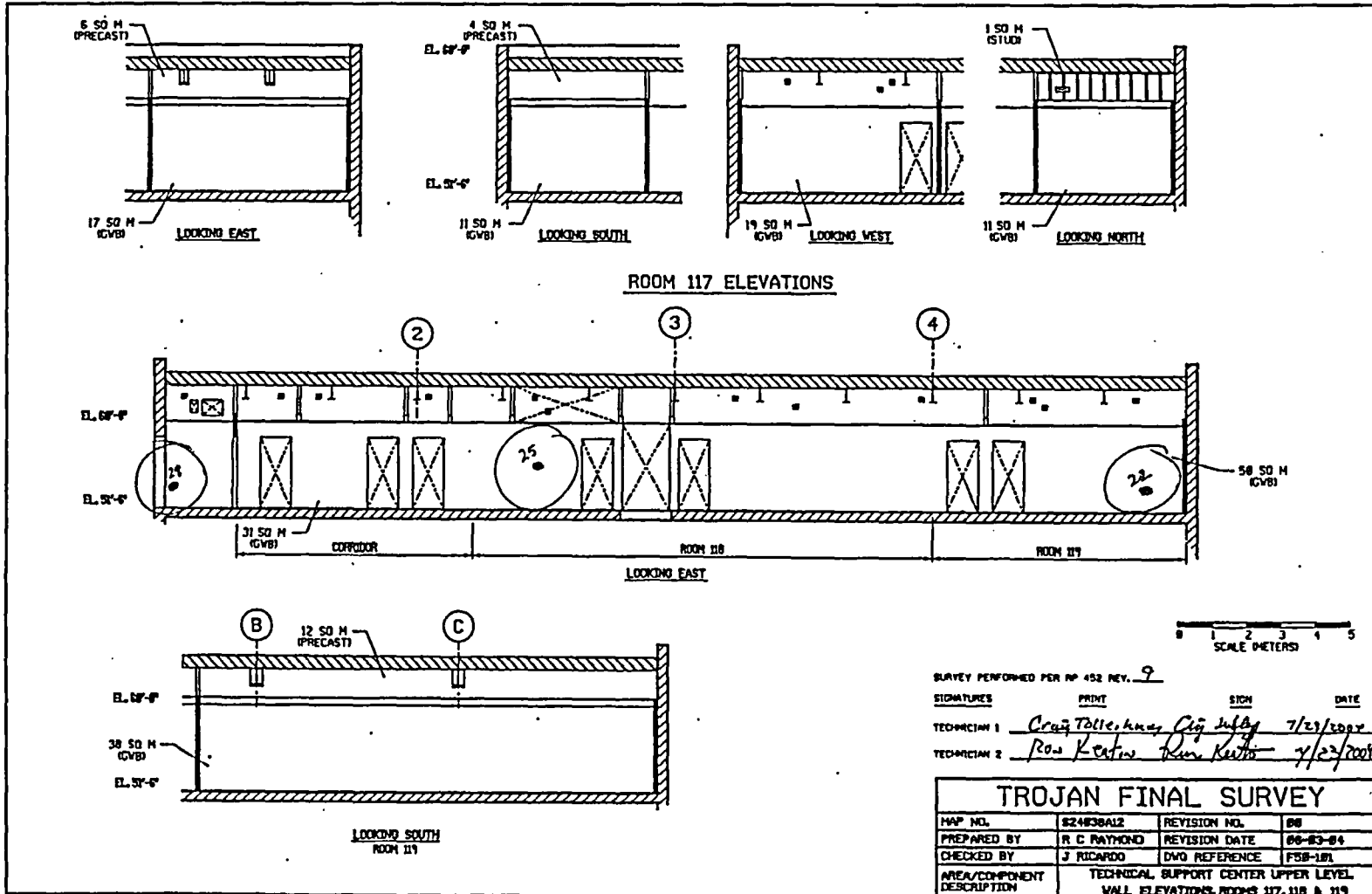


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S24038A
 Survey Unit Name: Technical Support Center Interior

Classification: Class 3
 Size (m²): 2,951

Static Measurement Locations Map

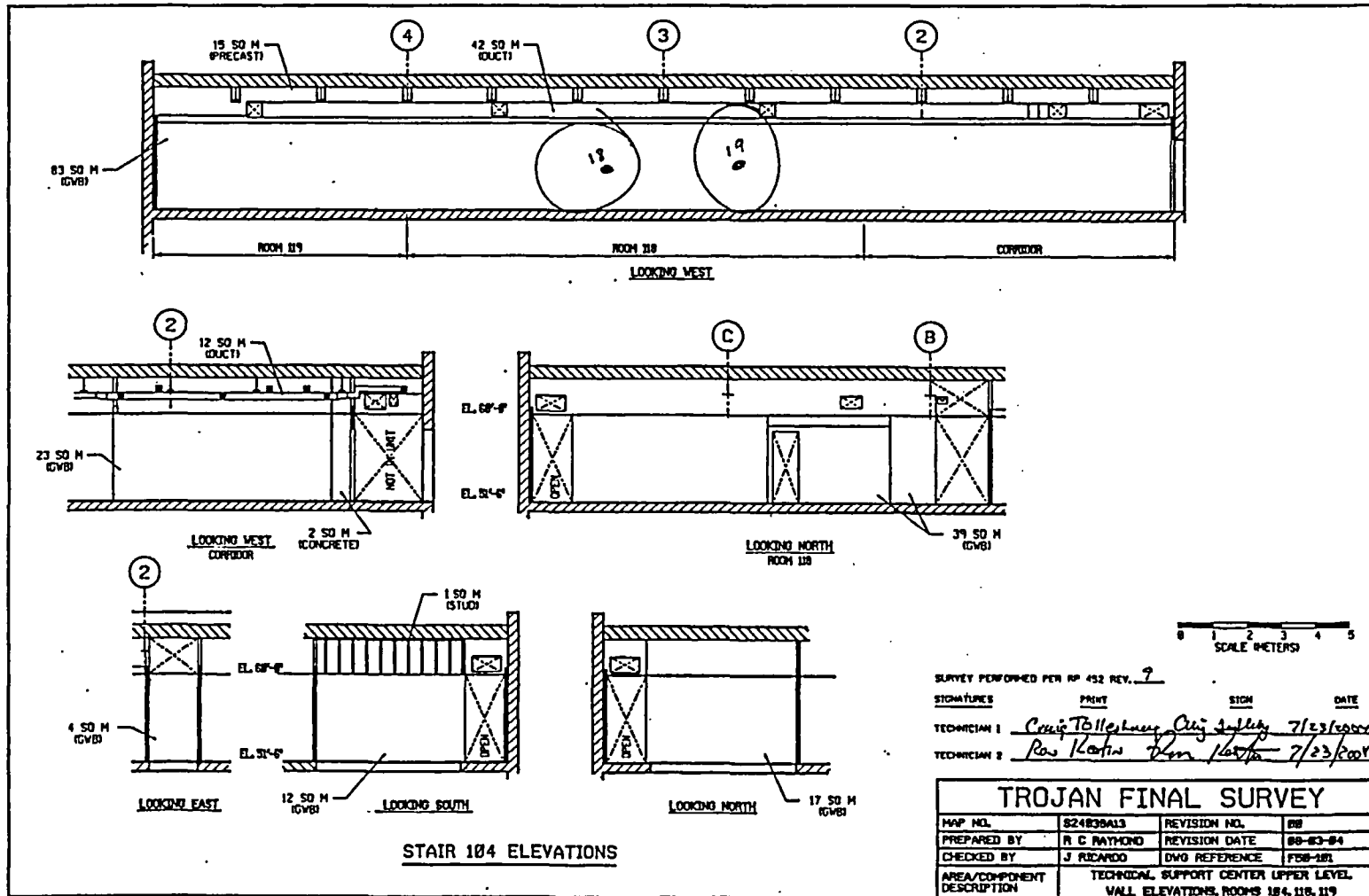


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S24038A
 Survey Unit Name: Technical Support Center Interior

Classification: Class 3
 Size (m²): 2,951

Static Measurement Locations Map

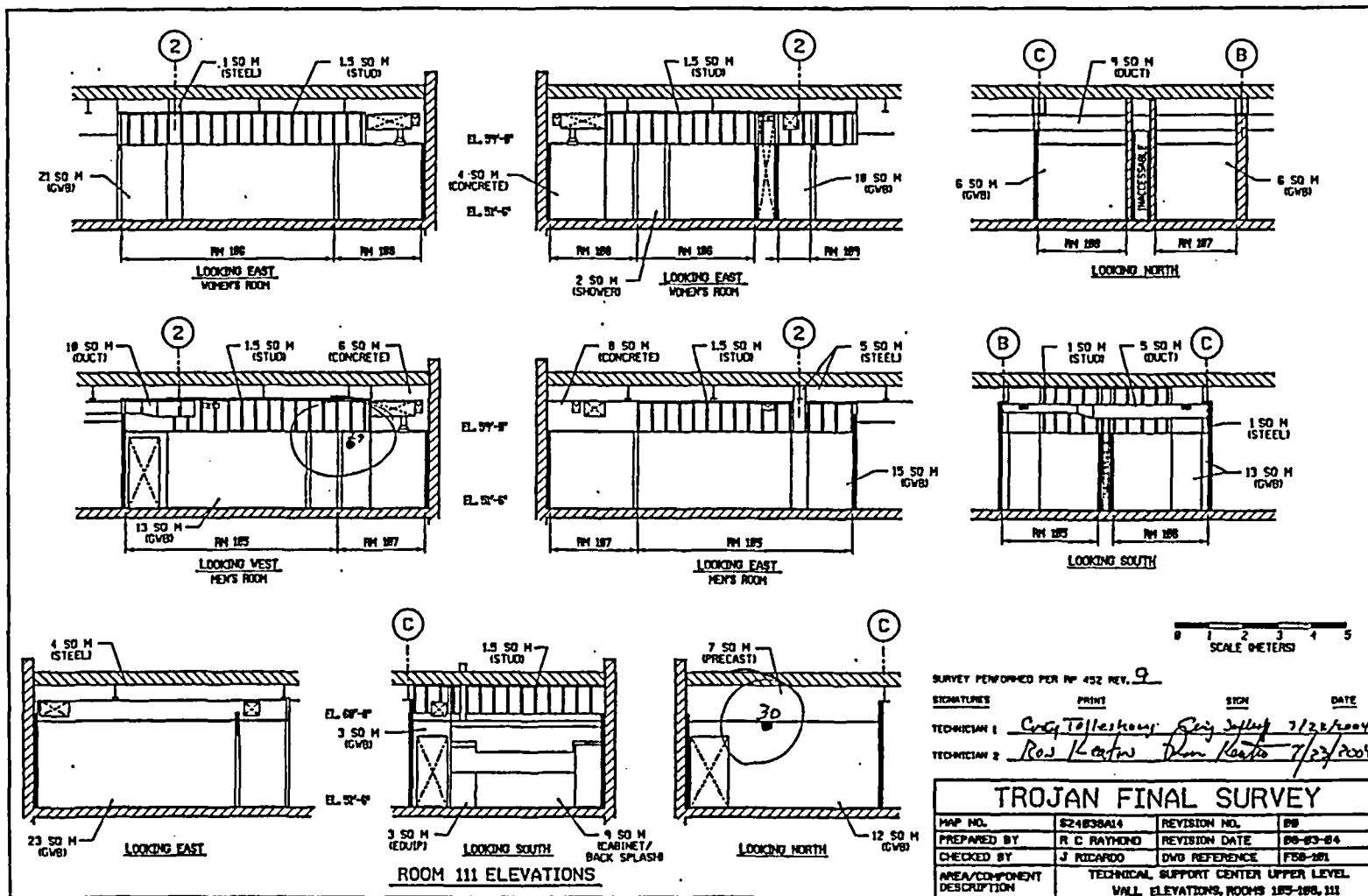


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S24038A
 Survey Unit Name: Technical Support Center Interior

Classification: Class 3
 Size (m²): 2,951

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 9
 SIGNATURE _____ PRINT _____ SIGN _____ DATE _____
 TECHNICIAN 1 *Craig Tellefsen* *Greg Jelling* 7/26/2004
 TECHNICIAN 2 *Ros Kauten* *Don Kauten* 7/27/2004

TROJAN FINAL SURVEY			
MAP NO.	S24038A14	REVISION NO.	08
PREPARED BY	R C RAYMOND	REVISION DATE	08-03-04
CHECKED BY	J RICARDO	DWG REFERENCE	F08-281
AREA/COMPONENT DESCRIPTION	TECHNICAL SUPPORT CENTER UPPER LEVEL WALL ELEVATIONS, ROOMS 187-188, 111		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S25045A
 Survey Unit Name: Security Building Interior

Classification: Class 3
 Size (m²): 857

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 5.999e+002
 Maximum Value : 1.353e+003
 Range : 7.531e+002
 Median : 7.545e+002
 Std. Deviation : 1.975e+002
 Mean : 8.362e+002
 95% UCL : 8.974e+002

Measurement Values

Location	Value	Location	Value
000001	5.999e+002	000018	7.191e+002
000002	6.930e+002	000019	1.092e+003
000003	7.378e+002	000020	1.241e+003
000004	7.080e+002	000021	1.133e+003
000005	7.154e+002	000022	7.415e+002
000006	7.340e+002	000023	7.862e+002
000007	8.160e+002	000024	7.638e+002
000008	8.868e+002	000025	6.334e+002
000009	9.911e+002	000026	1.353e+003
000010	7.005e+002	000027	6.595e+002
000011	7.452e+002	000028	1.215e+003
000012	8.235e+002	000029	7.676e+002
000013	7.899e+002	000030	6.856e+002
000014	6.819e+002		
000015	9.800e+002		
000016	9.949e+002		
000017	6.968e+002		

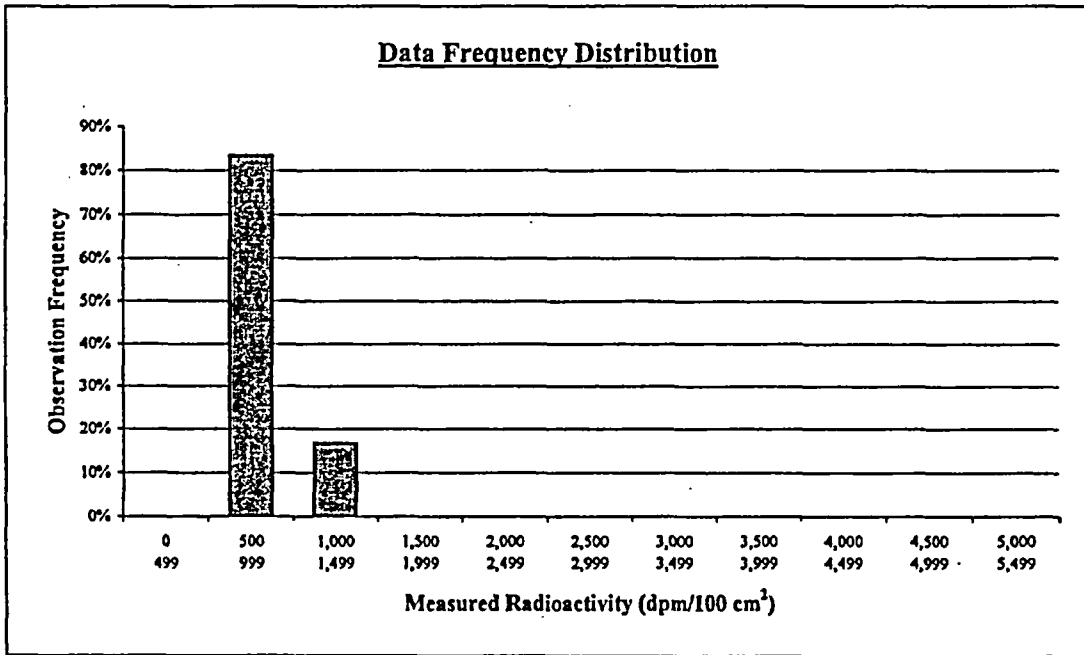
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S25045A
 Survey Unit Name: Security Building Interior

Classification: Class 3
 Size (m²): 857.

Measurement Data Statistical Evaluation

Statistical Comparisons				Statistical Quantities	
Test	Calculated Value	Acceptance Criteria	Acceptable?		
Range	753	987	Pass	Range:	753
Median	0.414	0.500	Pass	Median:	755
Mean	836	10,500	Pass	Mean:	836
Std Dev	197	4,200	Pass	Std Dev:	197
All data less than DCGL; Sign statistical test not required.				Minimum:	600
				Maximum:	1,353
				DCGL:	21,000



Plot Parameters		Interval	High End	Low End	Number of Observations	Observation Frequency
# of measurements:	30	1	499	0	0	0%
# of intervals:	11	2	999	500	25	83%
Interval increment:	500	3	1,499	1,000	5	17%
Minimum:	0	4	1,999	1,500	0	0%
Maximum:	5,499	5	2,499	2,000	0	0%
		6	2,999	2,500	0	0%
		7	3,499	3,000	0	0%
		8	3,999	3,500	0	0%
		9	4,499	4,000	0	0%
		10	4,999	4,500	0	0%
		11	5,499	5,000	0	0%
Total:					30	100%

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S25045A
Survey Unit Name: Security Building Interior

Classification: Class 3
Size (m²): 857

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 938

Scan Coverage (%): 5
Investigation Level: 21,000
Maximum Value: 1,716

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 51

Number of Measurements: 30
Investigation Level: 2,100
Maximum Value: 91

Discussion of Anomalous Measurement Data

Investigation Summary

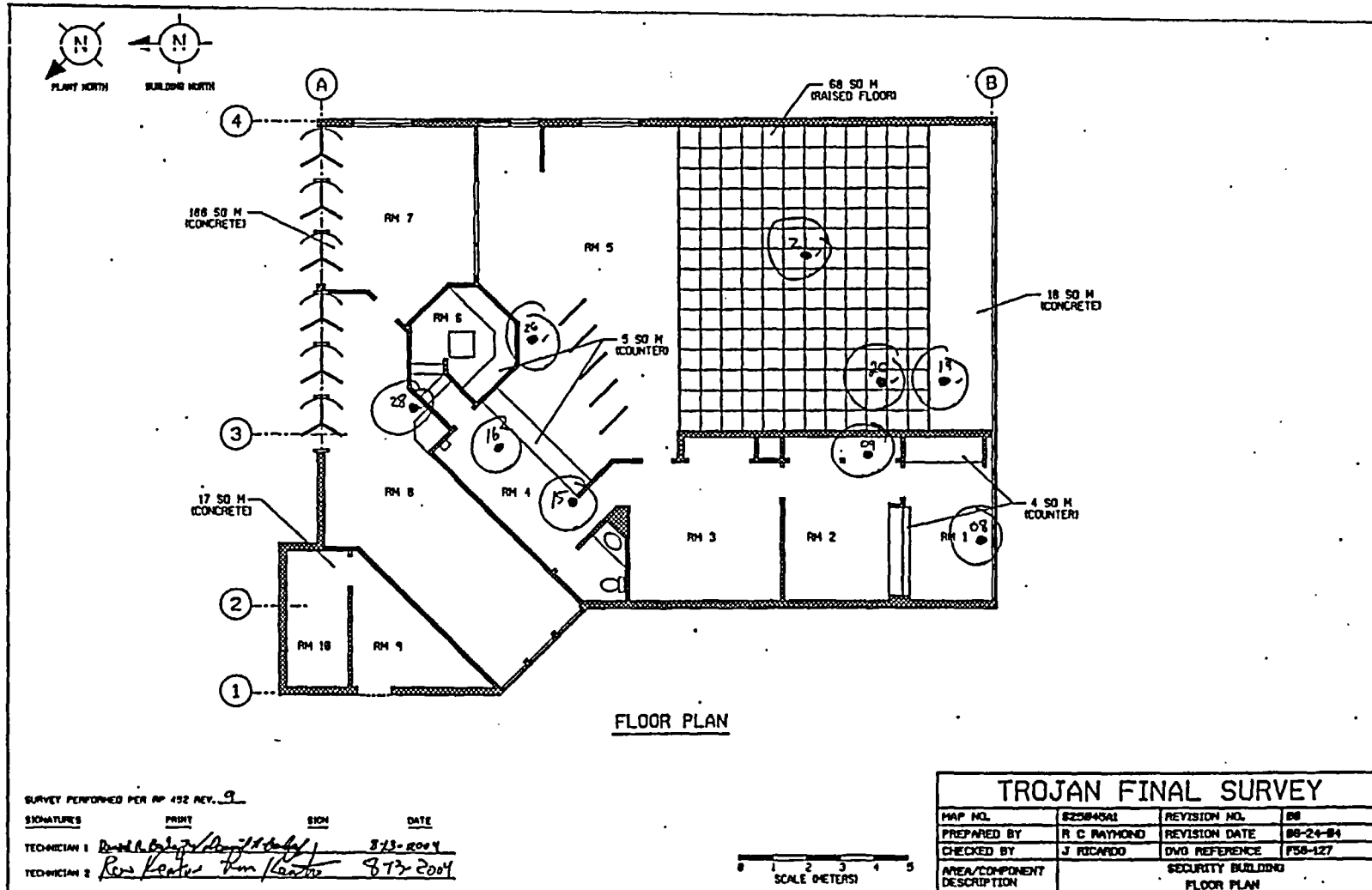
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S25045A
 Survey Unit Name: Security Building Interior

Classification: Class 3
 Size (m²): 857

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 9

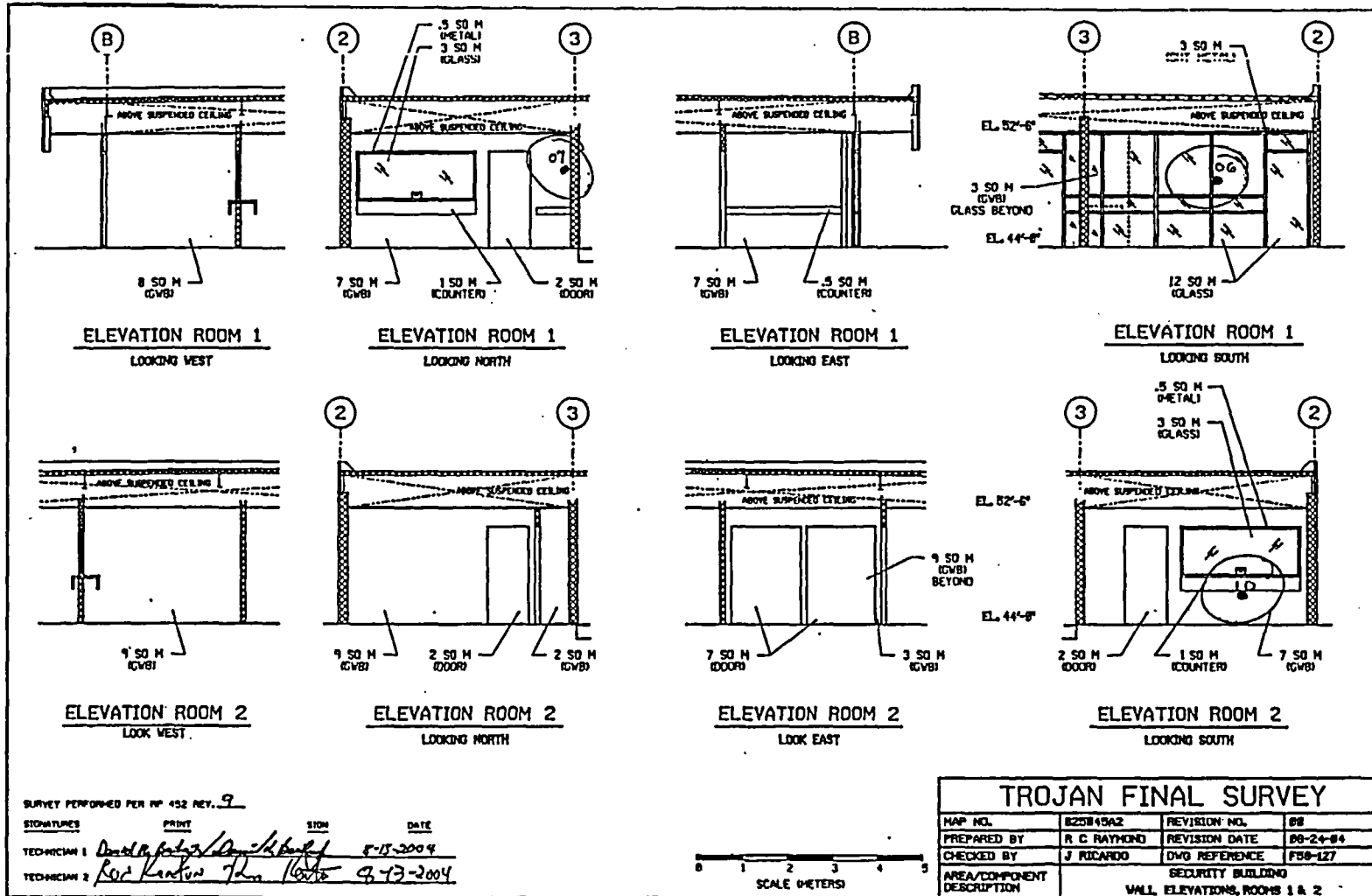
SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	<i>[Signature]</i>	<i>[Signature]</i>	8/13-2004
TECHNICIAN 2	<i>[Signature]</i>	<i>[Signature]</i>	8/17-2004

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S25045A
 Survey Unit Name: Security Building Interior

Classification: Class 3
 Size (m²): 857

Static Measurement Locations Map

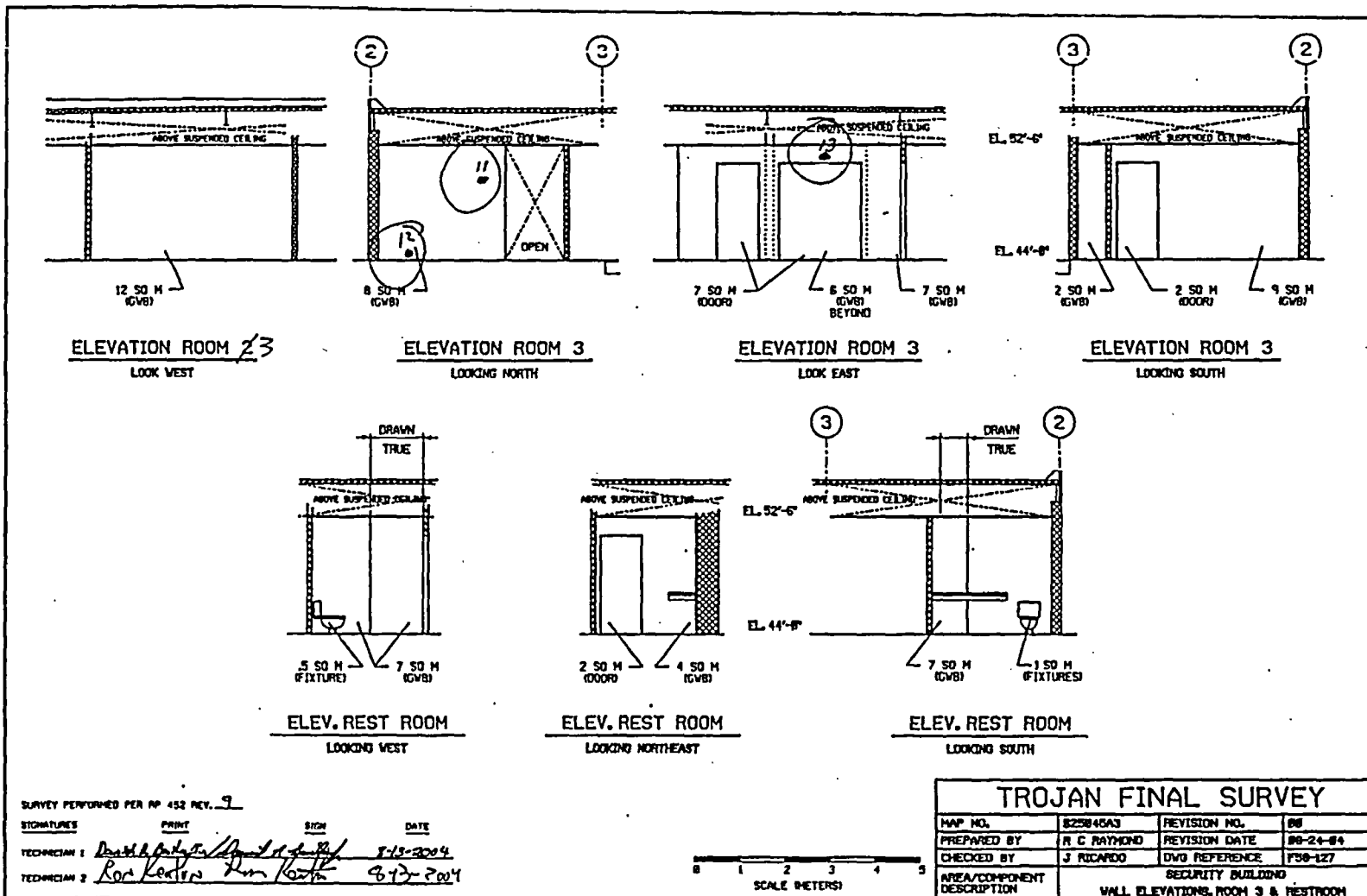


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S25045A
 Survey Unit Name: Security Building Interior

Classification: Class 3
 Size (m²): 857

Static Measurement Locations Map

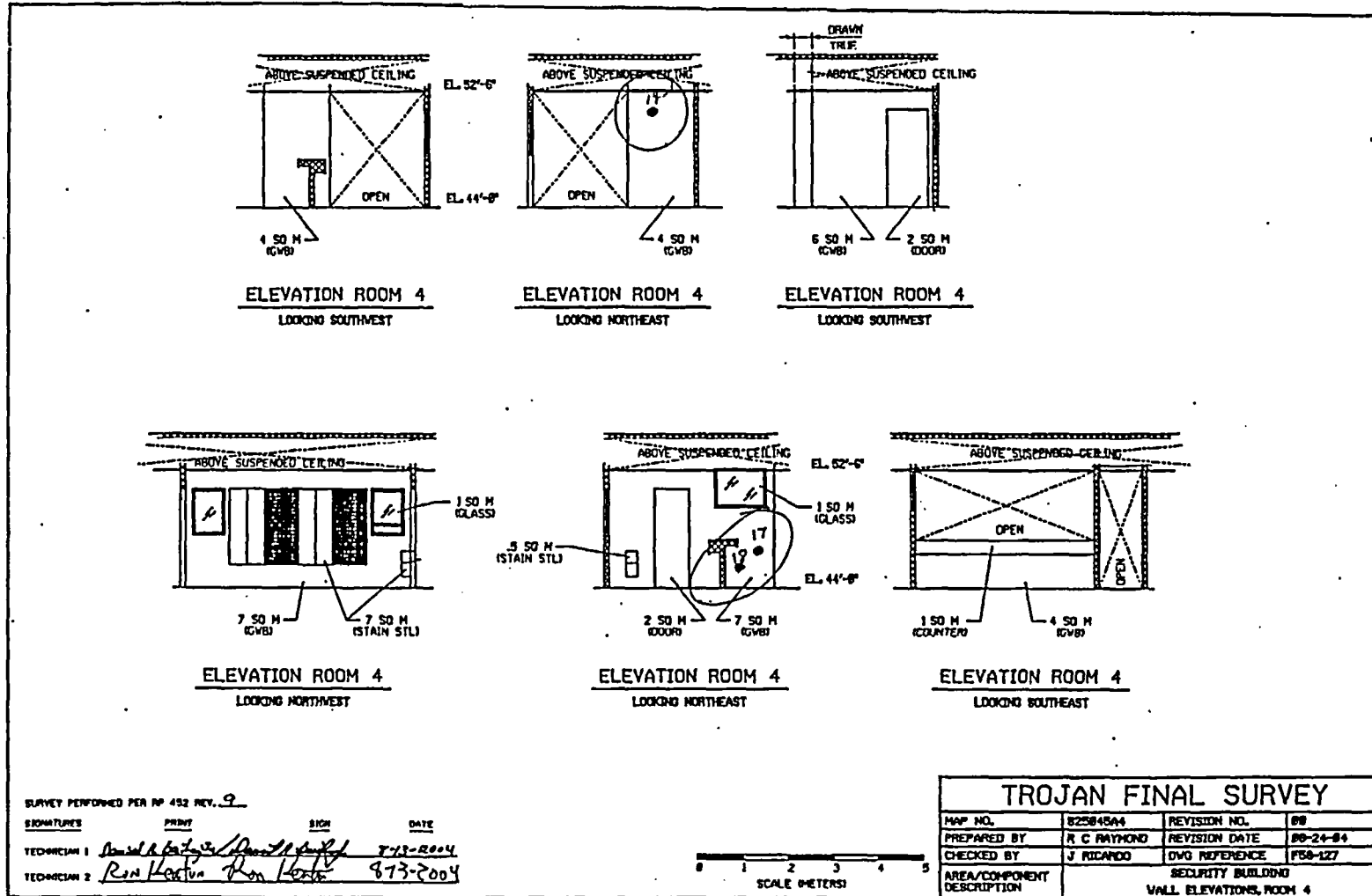


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S25045A
 Survey Unit Name: Security Building Interior

Classification: Class 3
 Size (m²): 857

Static Measurement Locations Map

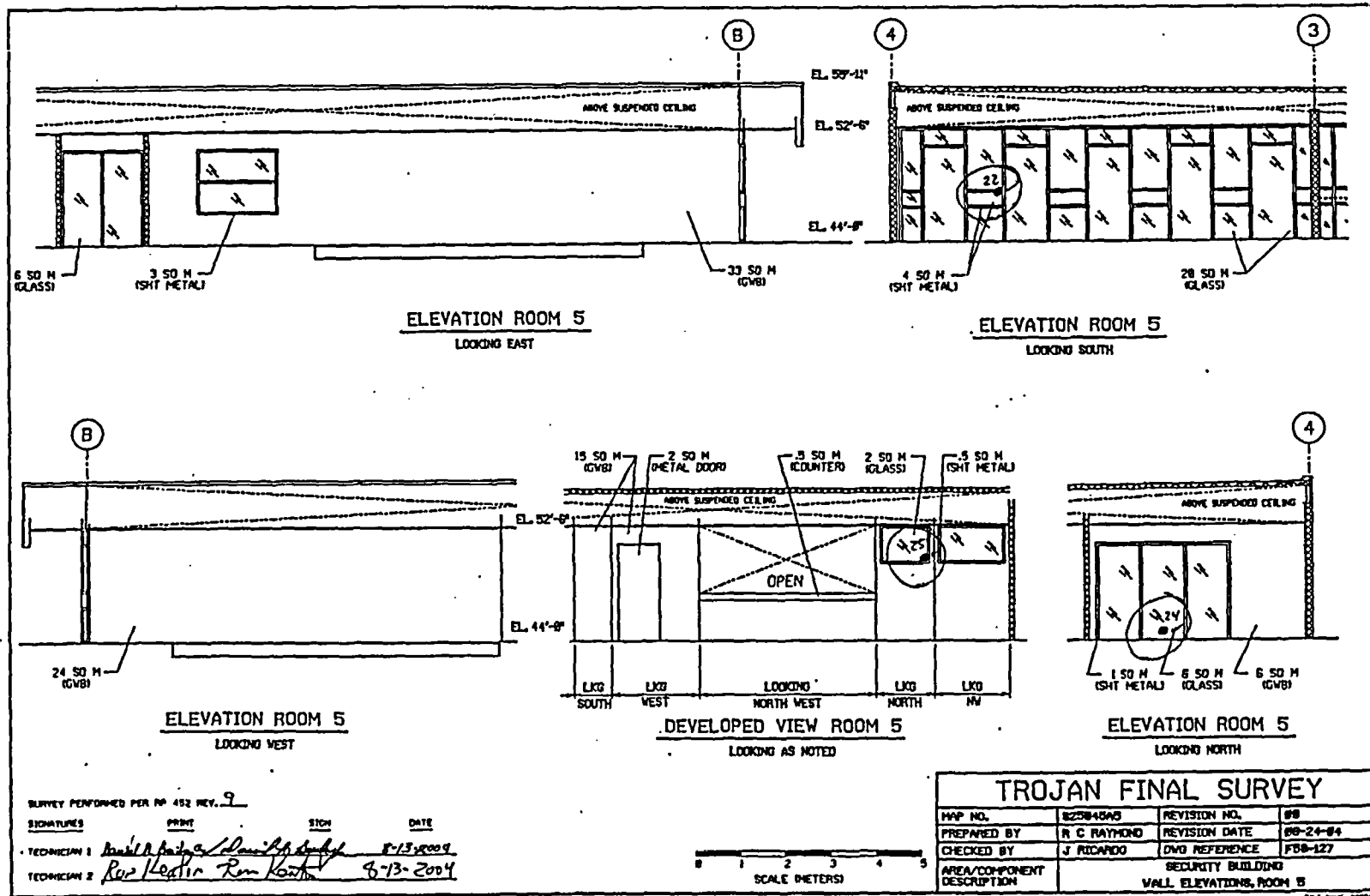


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S25045A
 Survey Unit Name: Security Building Interior

Classification: Class 3
 Size (m²): 857

Static Measurement Locations Map



SURVEY PERFORMED PER NO. 452 REV. 9
 SIGNATURES PRINT SIGN DATE
 TECHNICIAN 1 *David A. Smith / David B. Smith* 8-13-2009
 TECHNICIAN 2 *Ray Lester / Ron Keith* 8-13-2009

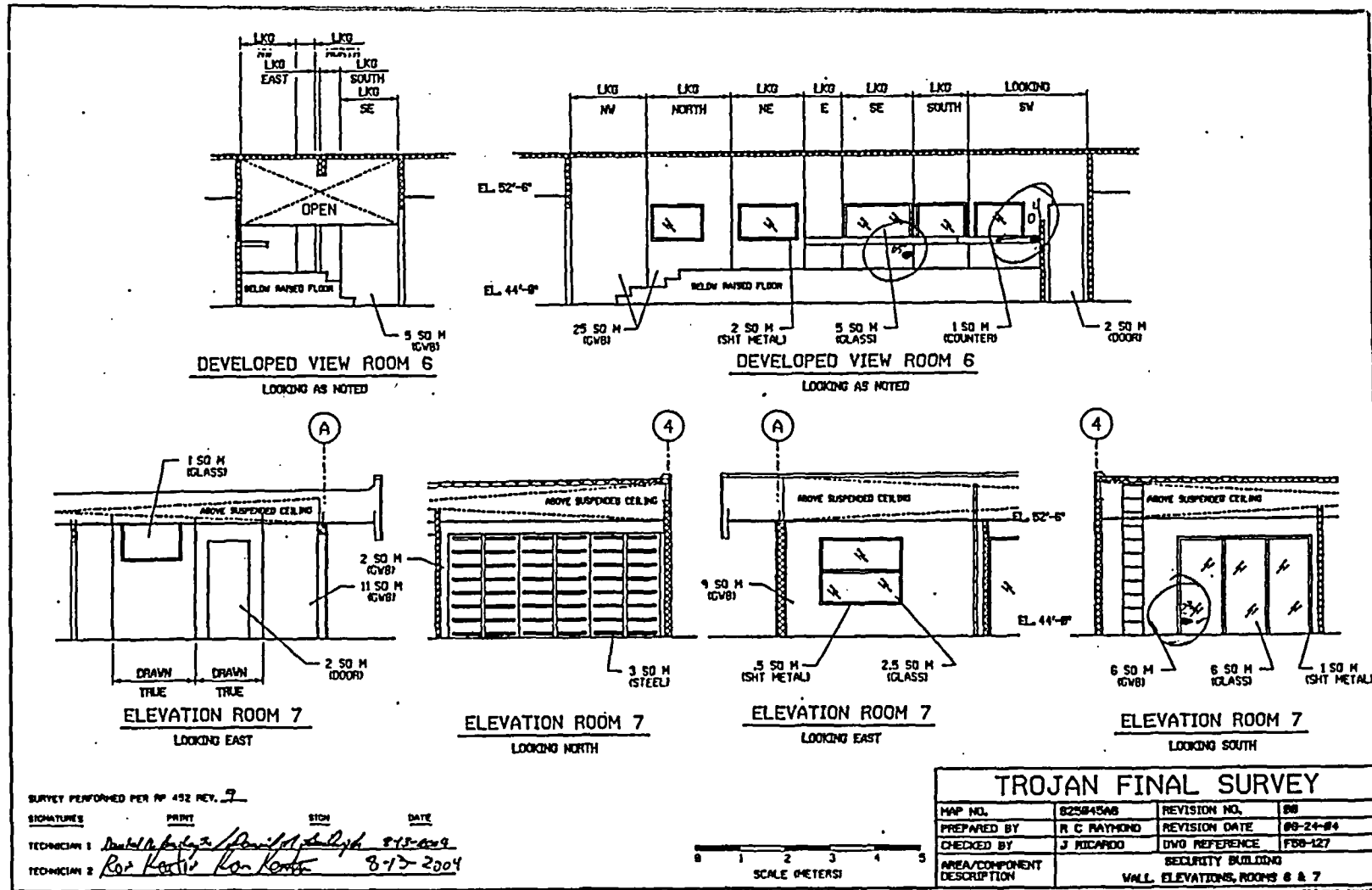
TROJAN FINAL SURVEY			
HAP NO.	S25045A3	REVISION NO.	09
PREPARED BY	R C RAYMOND	REVISION DATE	08-24-04
CHECKED BY	J RICARDO	DWG REFERENCE	F88-127
AREA/COMPONENT DESCRIPTION	SECURITY BUILDING WALL ELEVATIONS, ROOM 5		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S25045A
 Survey Unit Name: Security Building Interior

Classification: Class 3
 Size (m²): 857

Static Measurement Locations Map

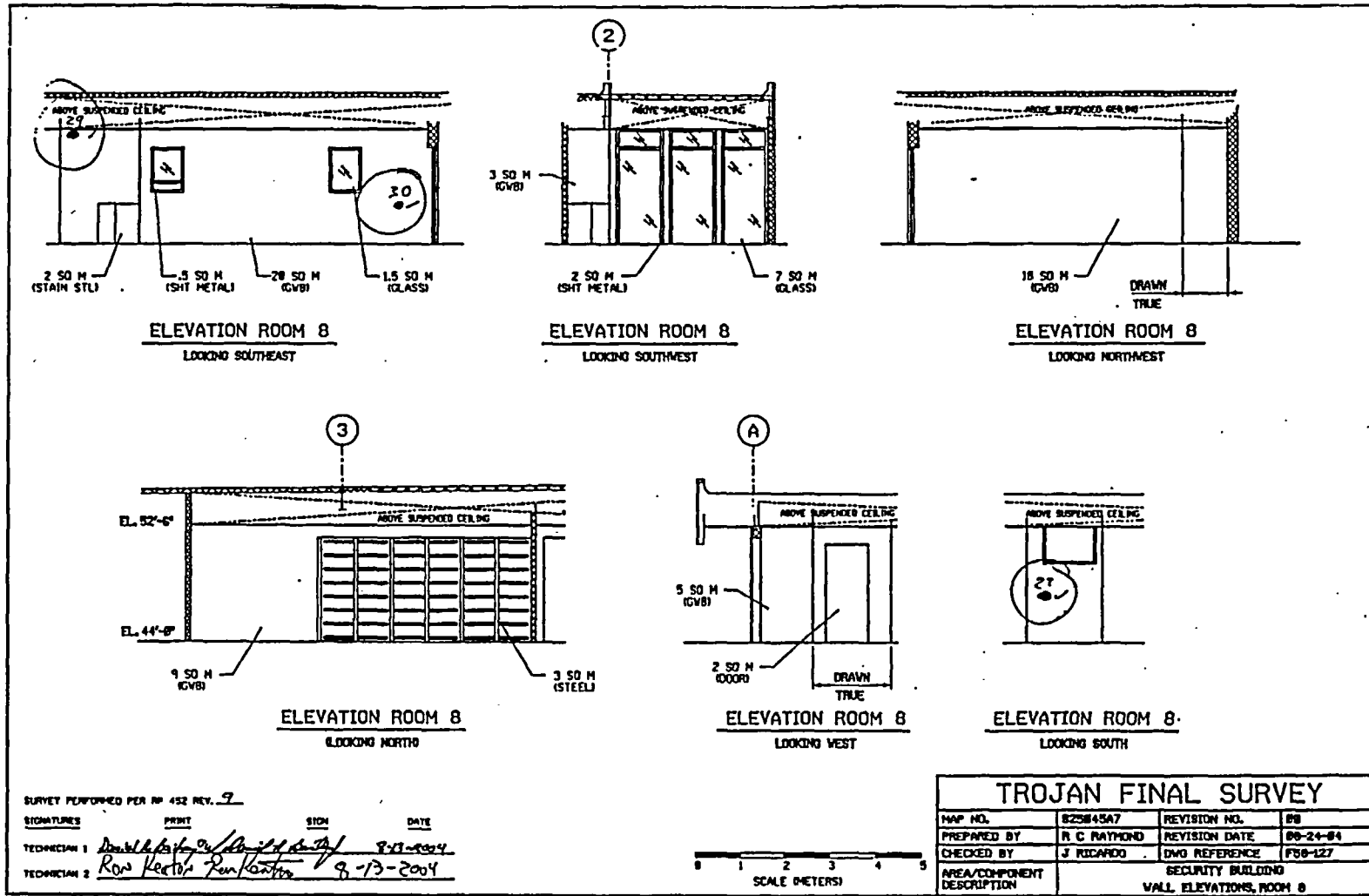


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S25045A
 Survey Unit Name: Security Building Interior

Classification: Class 3
 Size (m²): 857

Static Measurement Locations Map

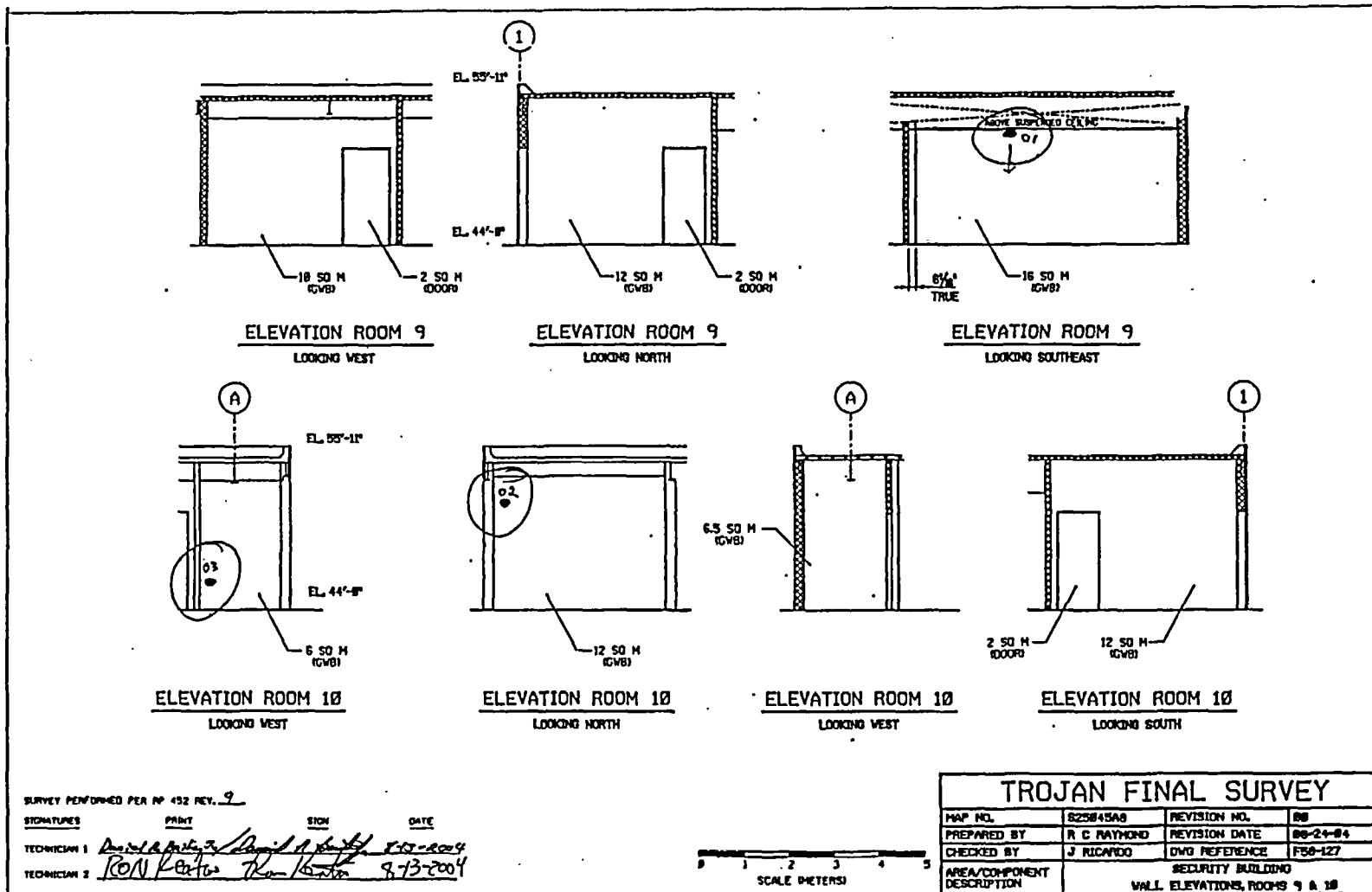


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S25045A
 Survey Unit Name: Security Building Interior

Classification: Class 3
 Size (m²): 857

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S26045A

Classification: Class 3

Survey Unit Name: Trojan Central Building Interior

Size (m²): 7,332

(Less HP/Dosimetry Office and 3rd Floor East Wall)

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 7.513e+002
 Maximum Value : 2.312e+003
 Range : 1.561e+003
 Median : 1.075e+003
 Std. Deviation : 3.969e+002
 Mean : 1.185e+003
 95% UCL : 1.308e+003

Measurement Values

Location	Value	Location	Value
000001	1.133e+003	000018	1.044e+003
000002	1.075e+003	000019	1.079e+003
000003	9.747e+002	000020	8.707e+002
000004	1.056e+003	000021	1.009e+003
000005	1.094e+003	000022	1.094e+003
000006	1.025e+003	000023	1.029e+003
000007	1.160e+003	000024	2.231e+003
000008	1.075e+003	000025	2.069e+003
000009	7.513e+002	000026	2.312e+003
000010	9.709e+002	000027	1.988e+003
000011	9.555e+002	000028	1.098e+003
000012	9.285e+002	000029	1.117e+003
000013	1.013e+003	000030	1.137e+003
000014	1.129e+003		
000015	1.025e+003		
000016	1.090e+003		
000017	1.021e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S26045A

Classification: Class 3

Survey Unit Name: Trojan Central Building Interior

Size (m²): 7,332

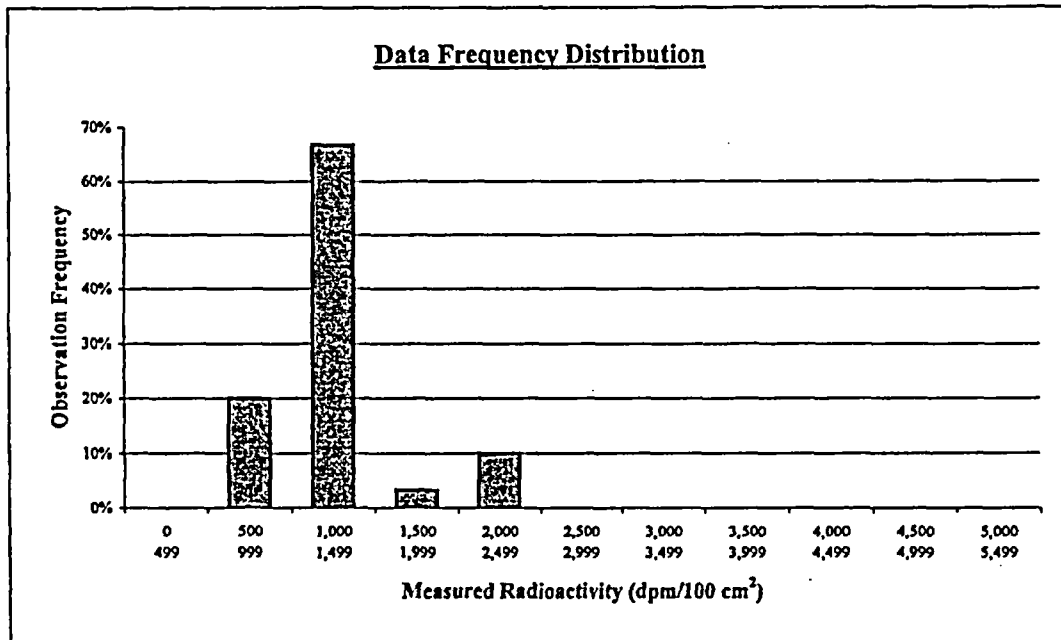
(Less HP/Dosimetry Office and 3rd Floor East Wall)

Measurement Data Statistical Evaluation

Statistical Comparisons			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	1,561	1,984	Pass
Median	0.278	0.500	Pass
Mean	1,185	10,500	Pass
Std Dev	397	4,200	Pass

Statistical Quantities	
Range:	1,561
Median:	1,075
Mean:	1,185
Std Dev:	397
Minimum:	751
Maximum:	2,312
DCGL:	21,000

All data less than DCGL; Sign statistical test not required.



Plot Parameters	
# of measurements:	30
# of intervals:	11
Interval increment:	500
Minimum:	0
Maximum:	5,499

Interval	High End	Low End	Number of Observations	Observation Frequency
1	499	0	0	0%
2	999	500	6	20%
3	1,499	1,000	20	67%
4	1,999	1,500	1	3%
5	2,499	2,000	3	10%
6	2,999	2,500	0	0%
7	3,499	3,000	0	0%
8	3,999	3,500	0	0%
9	4,499	4,000	0	0%
10	4,999	4,500	0	0%
11	5,499	5,000	0	0%
Total:			30	100%

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S26045A

Classification: Class 3

Survey Unit Name: Trojan Central Building Interior

Size (m²): 7,332

(Less HP/Dosimetry Office and 3rd Floor East Wall)

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 5

Measurement Units: dpm/100cm²

Investigation Level: 21,000

Minimum Value: 778

Maximum Value: 2,347

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 2,100

Minimum Value: 43

Maximum Value: 88

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

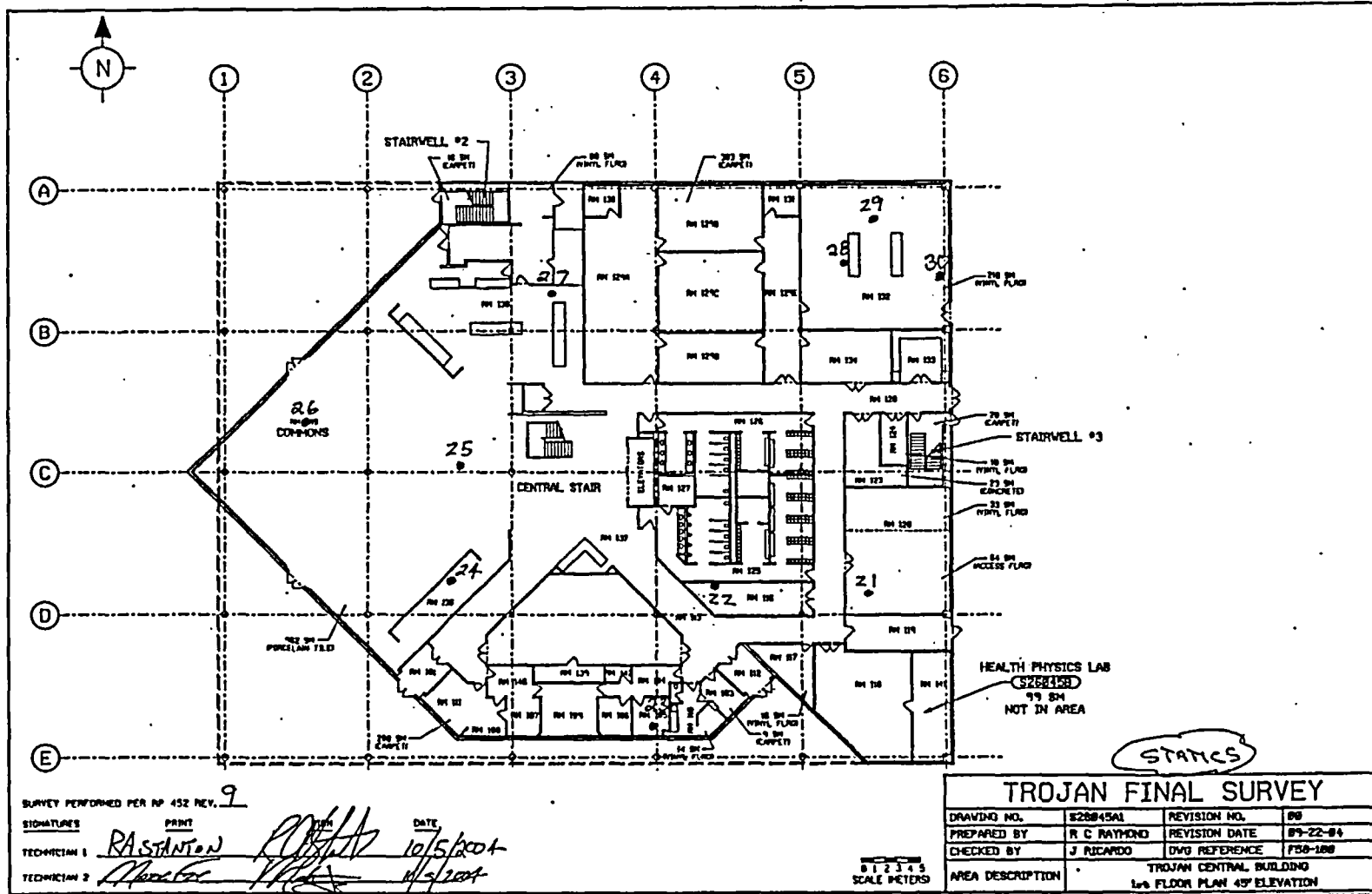
Survey Unit ID Code: S26045A

Classification: Class 3

Survey Unit Name: Trojan Central Building Interior (Less HP/Dosimetry Office and 3rd Floor East Wall)

Size (m²): 7,332

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

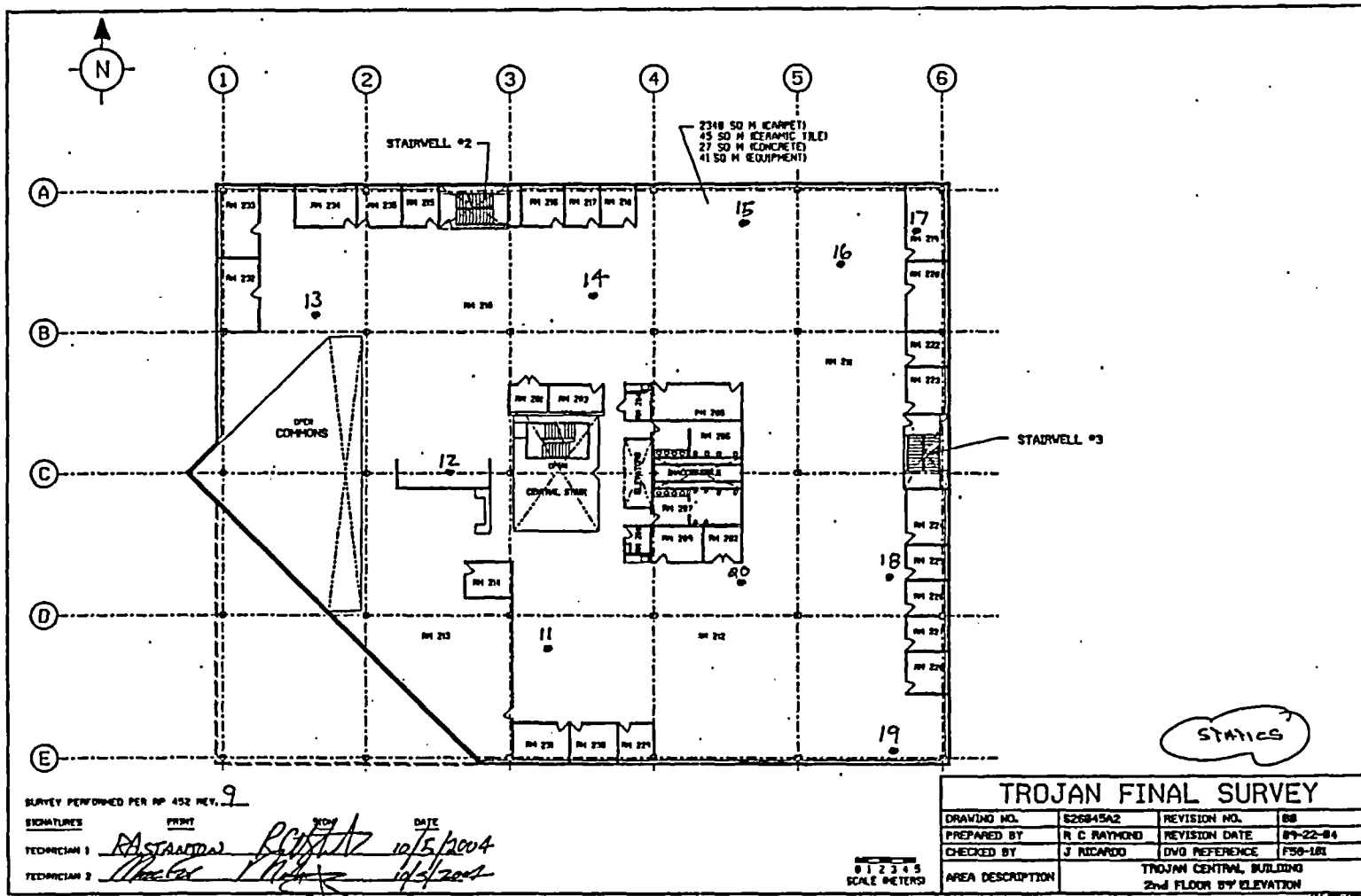
Survey Unit ID Code: S26045A

Classification: Class 3

Survey Unit Name: Trojan Central Building Interior (Less HP/Dosimetry Office and 3rd Floor East Wall)

Size (m²): 7,332

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

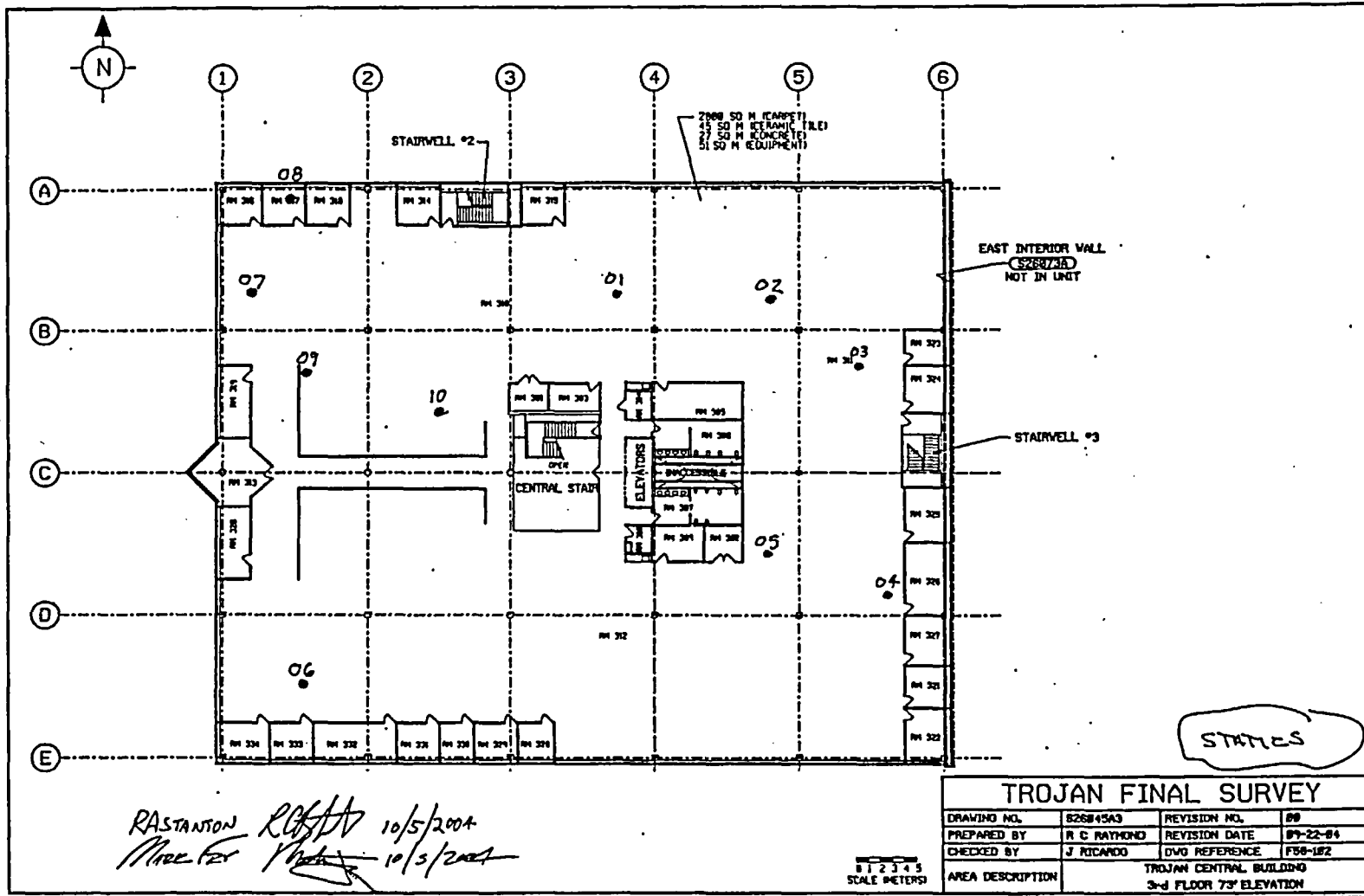
Survey Unit ID Code: S26045A

Classification: Class 3

Survey Unit Name: Trojan Central Building Interior (Less HP/Dosimetry Office and 3rd Floor East Wall)

Size (m²): 7,332

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S26045B
 Survey Unit Name: Trojan Central Building
 Health Physics/Dosimetry Office

Classification: Class 2
 Size (m²): 266

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 6.620e+002
 Maximum Value : 1.223e+003
 Range : 5.610e+002
 Median : 8.963e+002
 Std. Deviation : 1.462e+002
 Mean : 9.151e+002
 95% UCL : 9.604e+002

Measurement Values

Location	Value	Location	Value
000001	1.115e+003	000018	9.021e+002
000002	1.123e+003	000019	8.672e+002
000003	8.169e+002	000020	9.950e+002
000004	8.091e+002	000021	9.640e+002
000005	7.549e+002	000022	9.485e+002
000006	8.401e+002	000023	1.007e+003
000007	7.046e+002	000024	9.059e+002
000008	6.620e+002	000025	1.007e+003
000009	8.324e+002	000026	1.038e+003
000010	7.704e+002	000027	8.904e+002
000011	1.223e+003	000028	8.711e+002
000012	1.142e+003	000029	8.517e+002
000013	9.950e+002	000030	7.007e+002
000014	8.014e+002		
000015	7.472e+002		
000016	1.076e+003		
000017	1.092e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S26045B
 Survey Unit Name: Trojan Central Building
 Health Physics/Dosimetry Office

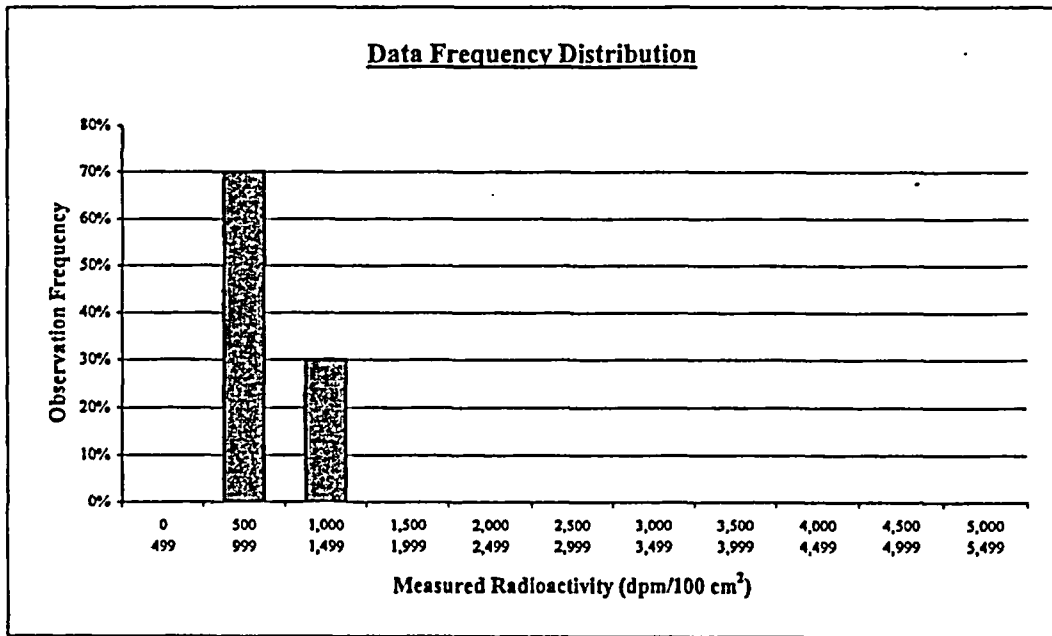
Classification: Class 2
 Size (m²): 266

Measurement Data Statistical Evaluation

Statistical Comparisons			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	561	731	Pass
Median	0.131	0.500	Pass
Mean	915	21,000	Pass
Std Dev	146	4,200	Pass

Statistical Quantities	
Range:	561
Median:	896
Mean:	915
Std Dev:	146
Minimum:	662
Maximum:	1,223
DCGL:	21,000

All data less than DCGL; Sign statistical test not required.



Plot Parameters	
# of measurements:	30
# of intervals:	11
Interval increment:	500
Minimum:	0
Maximum:	5,499

Comment:
 NONE

Interval	High End	Low End	Number of Observations	Observation Frequency
1	499	0	0	0%
2	999	500	21	70%
3	1,499	1,000	9	30%
4	1,999	1,500	0	0%
5	2,499	2,000	0	0%
6	2,999	2,500	0	0%
7	3,499	3,000	0	0%
8	3,999	3,500	0	0%
9	4,499	4,000	0	0%
10	4,999	4,500	0	0%
11	5,499	5,000	0	0%
Total:			30	100%

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S26045B

Classification: Class 2

Survey Unit Name: Trojan Central Building

Size (m²): 266

Health Physics/Dosimetry Office

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 15

Measurement Units: dpm/100cm²

Investigation Level: 21,000

Minimum Value: 897

Maximum Value: 1,403

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 2,100

Minimum Value: 40

Maximum Value: 77

Discussion of Anomalous Measurement Data

Investigation Summary

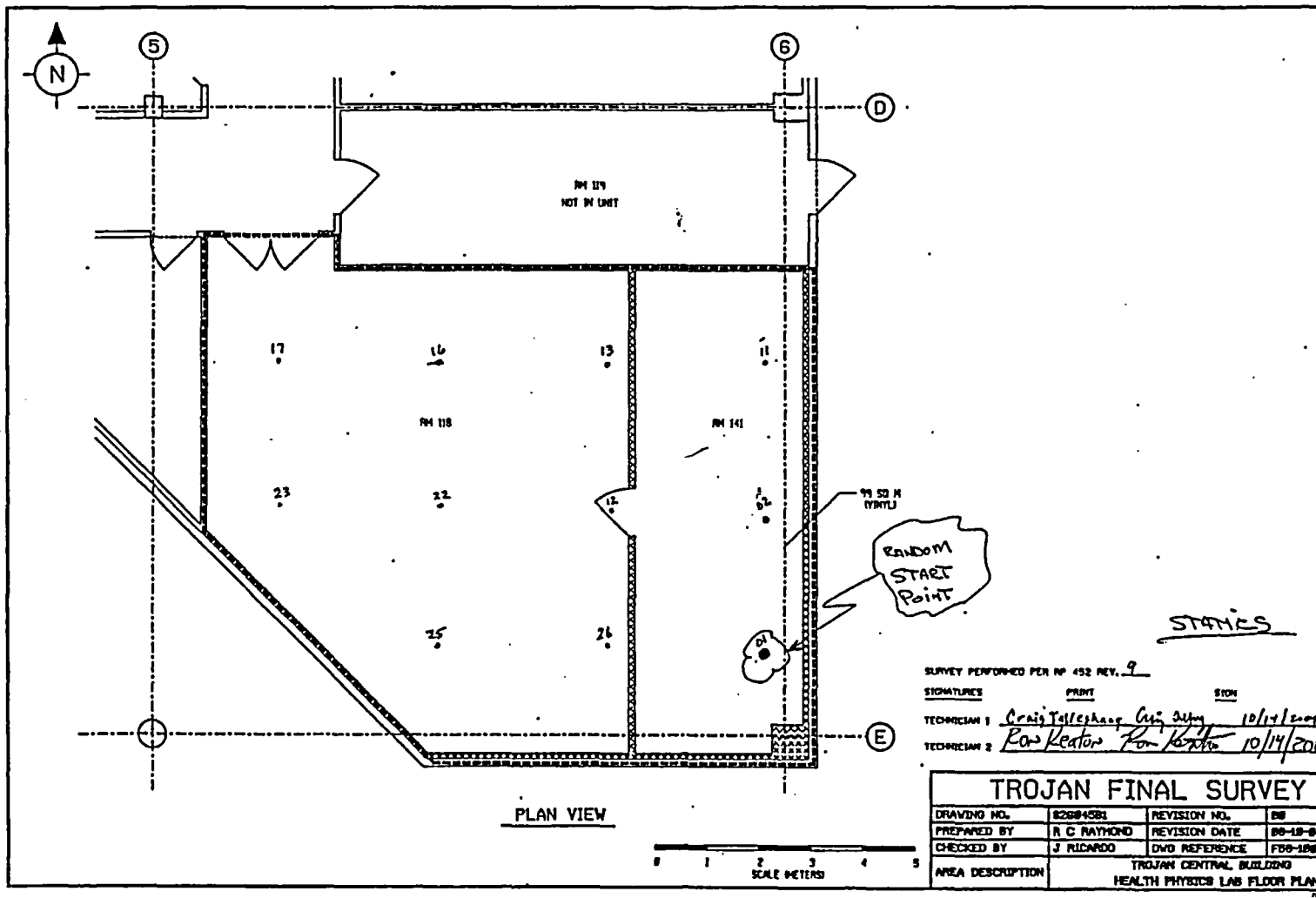
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S26045B
 Survey Unit Name: Trojan Central Building Health Physics/Dosimetry Office

Classification: Class 2
 Size (m²): 266

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

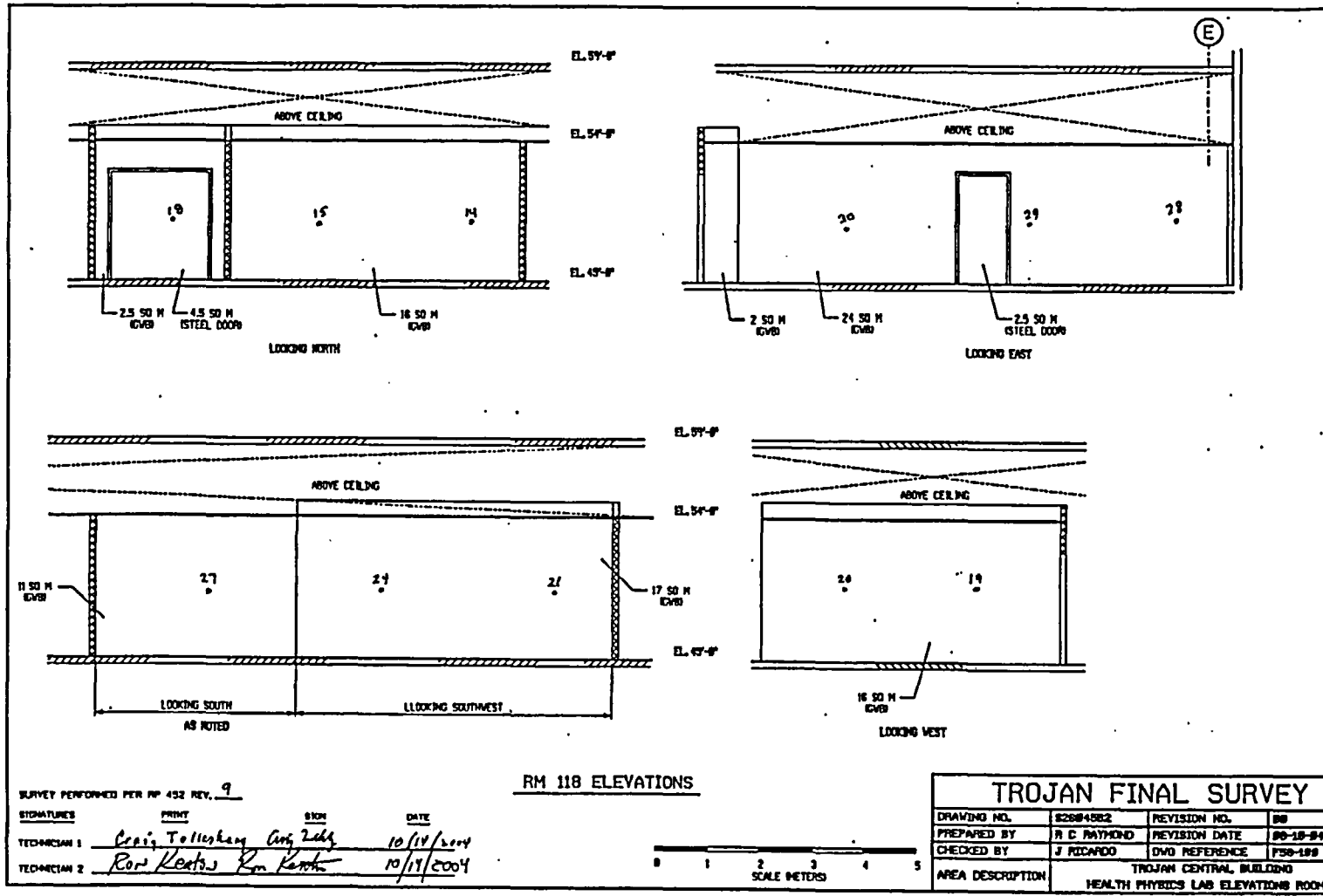
Survey Unit ID Code: S26045B

Survey Unit Name: Trojan Central Building Health Physics/Dosimetry Office

Classification: Class 2

Size (m²): 266

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

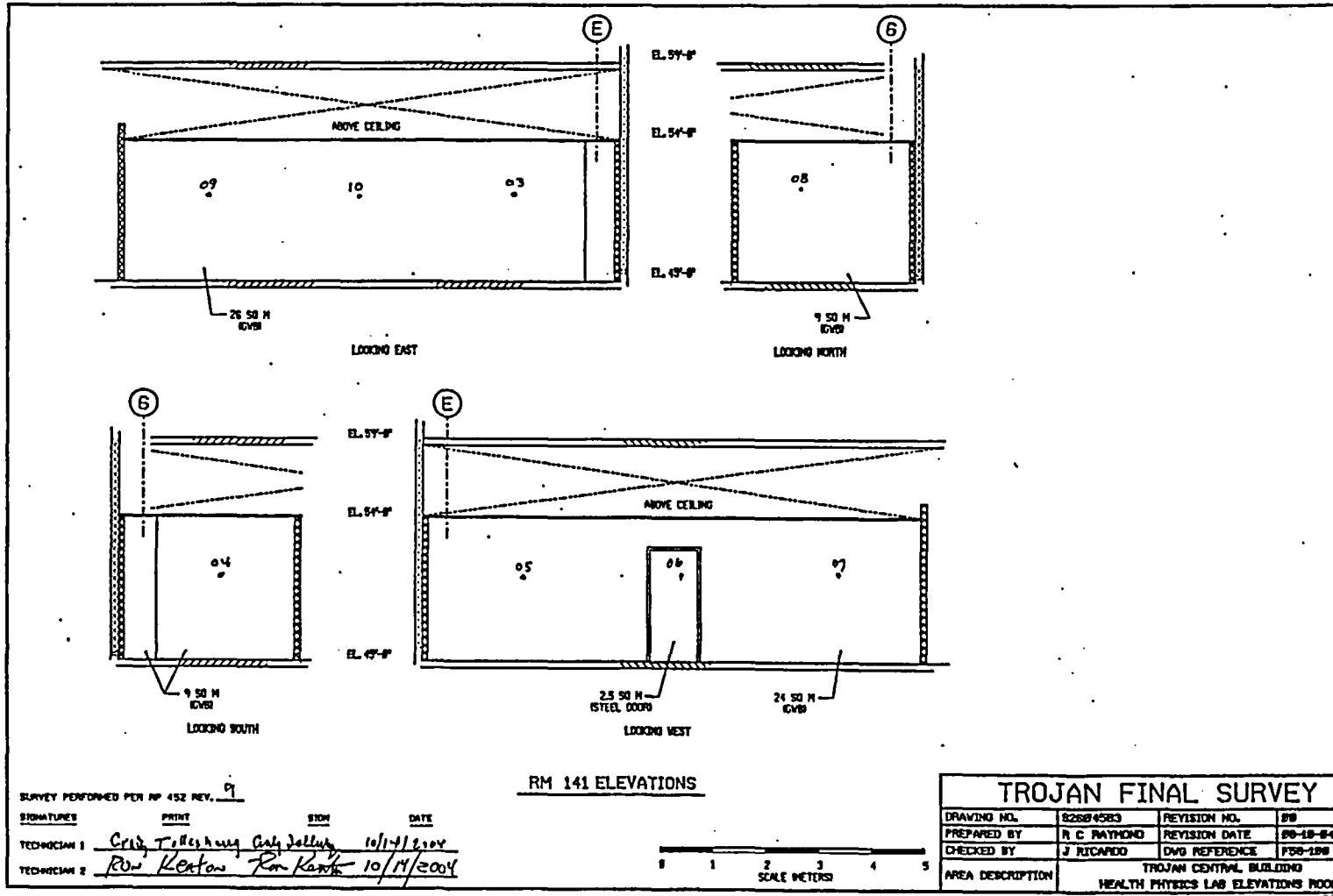
Survey Unit ID Code: S26045B

Survey Unit Name: Trojan Central Building Health Physics/Dosimetry Office

Classification: Class 2

Size (m²): 266

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S26073A
 Survey Unit Name: Trojan Central Building
 3rd Floor East Interior Wall

Classification: Class 3
 Size (m²): 134

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 6.062e+002
 Maximum Value : 8.734e+002
 Range : 2.672e+002
 Median : 7.059e+002
 Std. Deviation : 6.113e+001
 Mean : 7.211e+002
 95% UCL : 7.400e+002

Measurement Values

Location	Value	Location	Value
000001	6.062e+002	000018	8.734e+002
000002	7.697e+002	000019	7.737e+002
000003	6.939e+002	000020	6.740e+002
000004	6.660e+002	000021	6.581e+002
000005	6.979e+002	000022	6.501e+002
000006	6.501e+002	000023	7.019e+002
000007	7.059e+002	000024	6.979e+002
000008	7.059e+002	000025	7.817e+002
000009	6.740e+002	000026	7.059e+002
000010	7.298e+002	000027	7.418e+002
000011	7.538e+002	000028	7.498e+002
000012	7.139e+002	000029	7.538e+002
000013	7.259e+002	000030	6.581e+002
000014	7.817e+002		
000015	8.096e+002		
000016	6.740e+002		
000017	8.535e+002		

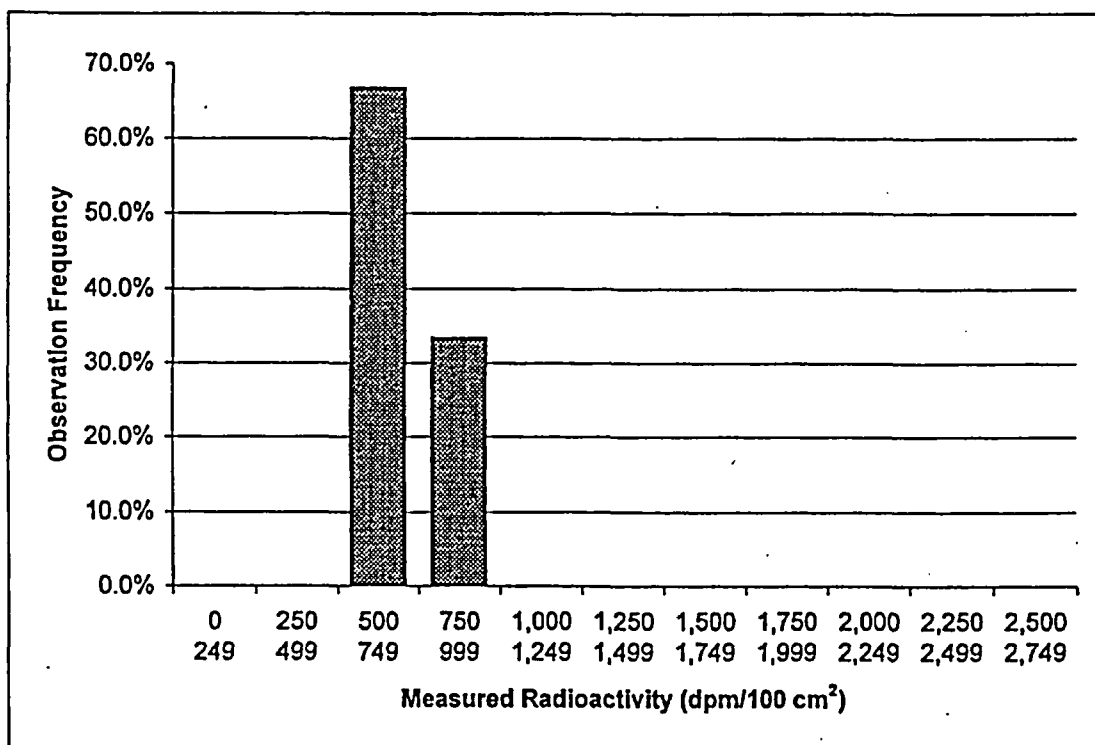
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S26073A
 Survey Unit Name: Trojan Central Building
 3rd Floor East Interior Wall

Classification: Class 3
 Size (m²): 134

Measurement Data Statistical Evaluation

Statistical Quantiles Tests				Statistical Quantiles	
Test	Value	Criteria	Acceptable?		Value
Range	267	306	Pass	Range:	267
Median	0.248	0.500	Pass	Median:	706
Mean	721	10,500	Pass	Mean:	721
Std Dev	61	4,200	Pass	Std Dev:	61
				Minimum:	606
				Maximum:	873
				DCGL:	21,000



Plot Parameters		Interval	High	Low	Number	Frequency
# of measurements:	30	1	249	0	0	0.0%
# of intervals:	11	2	499	250	0	0.0%
Interval increment:	250	3	749	500	20	66.7%
Minimum:	0	4	999	750	10	33.3%
Maximum:	2,749	5	1,249	1,000	0	0.0%
		6	1,499	1,250	0	0.0%
		7	1,749	1,500	0	0.0%
		8	1,999	1,750	0	0.0%
		9	2,249	2,000	0	0.0%
		10	2,499	2,250	0	0.0%
		11	2,749	2,500	0	0.0%
Total:					30	100%

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S26073A

Classification: Class 3

Survey Unit Name: Trojan Central Building
3rd Floor East Interior Wall

Size (m²): 134

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 5

Measurement Units: dpm/100cm²

Investigation Level: 21,000

Minimum Value: 809

Maximum Value: 1,114

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

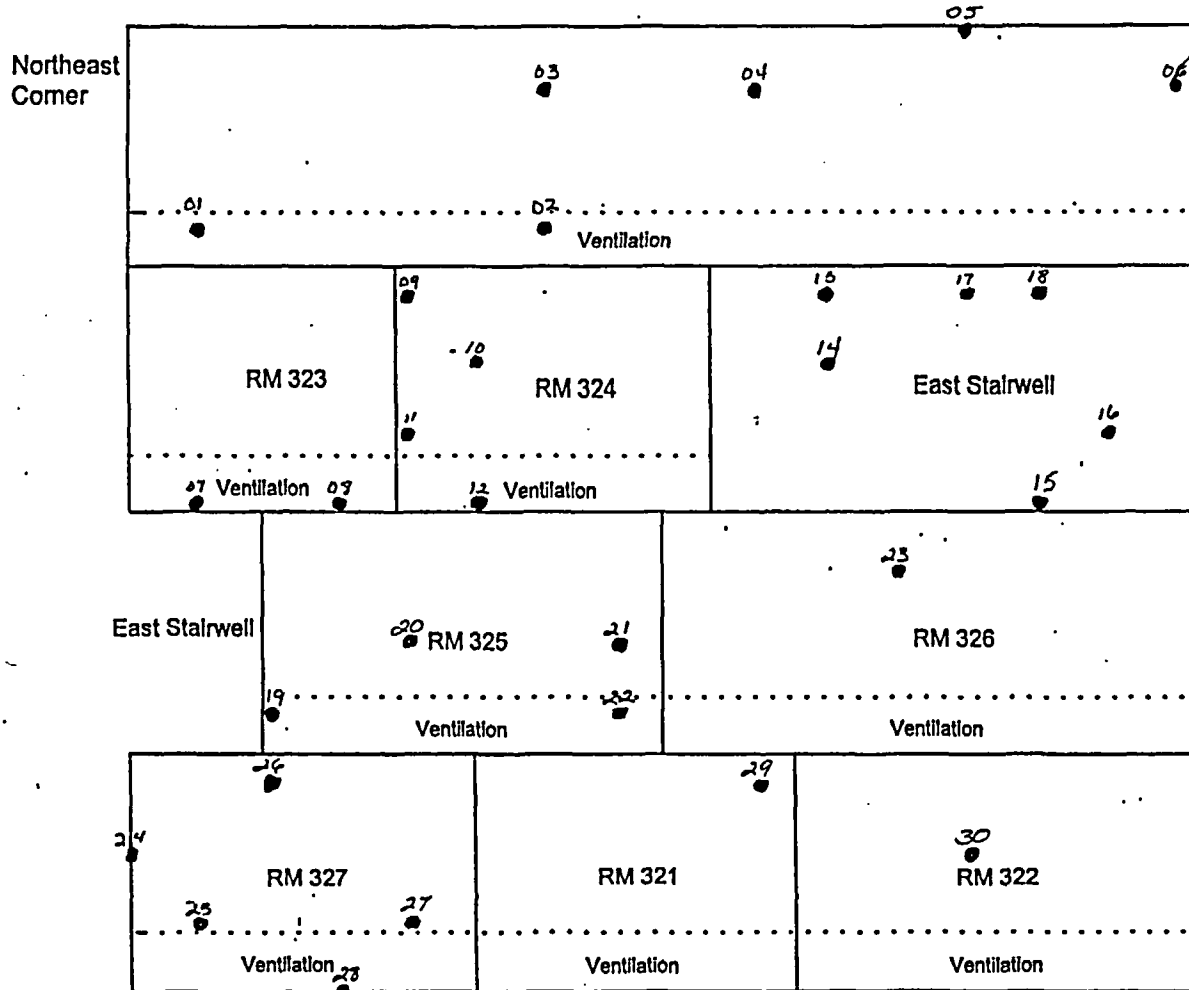
Survey Unit ID Code: S26073A

Survey Unit Name: Trojan Central Building 3rd Floor East Interior Wall

Classification: Class 3

Size (m²): 134

Static Measurement Locations Map



Low Libal
Survey Technician ..
Date 8-7-2002

Craig Tollesky
Survey Technician ..
Date 8-7-2002

Southeast Corner

073Asml.cad

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S27045A
 Survey Unit Name: Materials Warehouse Interior
 (Excluding I&E Shop)

Classification: Class 3
 Size (m²): 3,946

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 8.132e+002
 Maximum Value : 1.349e+003
 Range : 5.358e+002
 Median : 1.173e+003
 Std. Deviation : 1.376e+002
 Mean : 1.156e+003
 95% UCL : 1.198e+003

Measurement Values

Location	Value	Location	Value
000001	1.306e+003	000018	1.083e+003
000002	1.235e+003	000019	1.110e+003
000003	1.232e+003	000020	1.349e+003
000004	1.243e+003	000021	1.071e+003
000005	1.153e+003	000022	8.132e+002
000006	1.259e+003	000023	1.024e+003
000007	1.122e+003	000024	1.169e+003
000008	1.130e+003	000025	1.165e+003
000009	1.271e+003	000026	1.185e+003
000010	1.216e+003	000027	1.165e+003
000011	1.192e+003	000028	9.227e+002
000012	1.329e+003	000029	8.445e+002
000013	1.177e+003	000030	9.227e+002
000014	1.294e+003		
000015	1.333e+003		
000016	1.200e+003		
000017	1.149e+003		

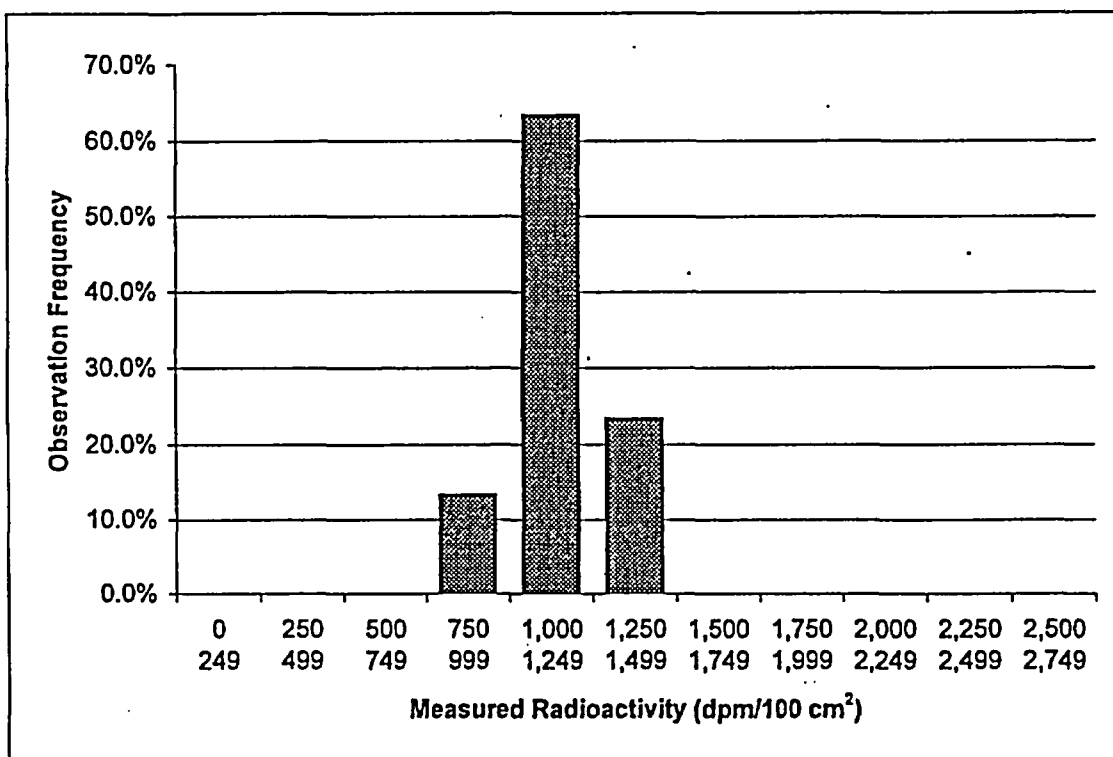
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S27045A
 Survey Unit Name: Materials Warehouse Interior
 (Excluding I&E Shop)

Classification: Class 3
 Size (m²): 3,946

Measurement Data Statistical Evaluation

Statistical Quantities Tests				Statistical Quantities	
Test	Value	Criteria	Acceptable?	Range:	536
Range	536	688	Pass	Median:	1,173
Median	0.127	0.500	Pass	Mean:	1,156
Mean	1,156	10,500	Pass	Std Dev:	138
Std Dev	138	4,200	Pass	Minimum:	813
				Maximum:	1,349
				DCGL:	21,000



Plot Parameters		Interval	High	Low	Number	Frequency
# of measurements:	30	1	249	0	0	0.0%
# of Intervals:	11	2	499	250	0	0.0%
Interval increment:	250	3	749	500	0	0.0%
Minimum:	0	4	999	750	4	13.3%
Maximum:	2,749	5	1,249	1,000	19	63.3%
		6	1,499	1,250	7	23.3%
		7	1,749	1,500	0	0.0%
		8	1,999	1,750	0	0.0%
		9	2,249	2,000	0	0.0%
		10	2,499	2,250	0	0.0%
		11	2,749	2,500	0	0.0%
		Total:			30	100%

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S27045A
Survey Unit Name: Materials Warehouse Interior
(Excluding I&E Shop)

Classification: Class 3
Size (m²): 3,946

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 904

Scan Coverage (%): 2
Investigation Level: 21,000
Maximum Value: 1,690

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 3

Number of Measurements: 30
Investigation Level: 2,100
Maximum Value: 18

Discussion of Anomalous Measurement Data

Investigation Summary

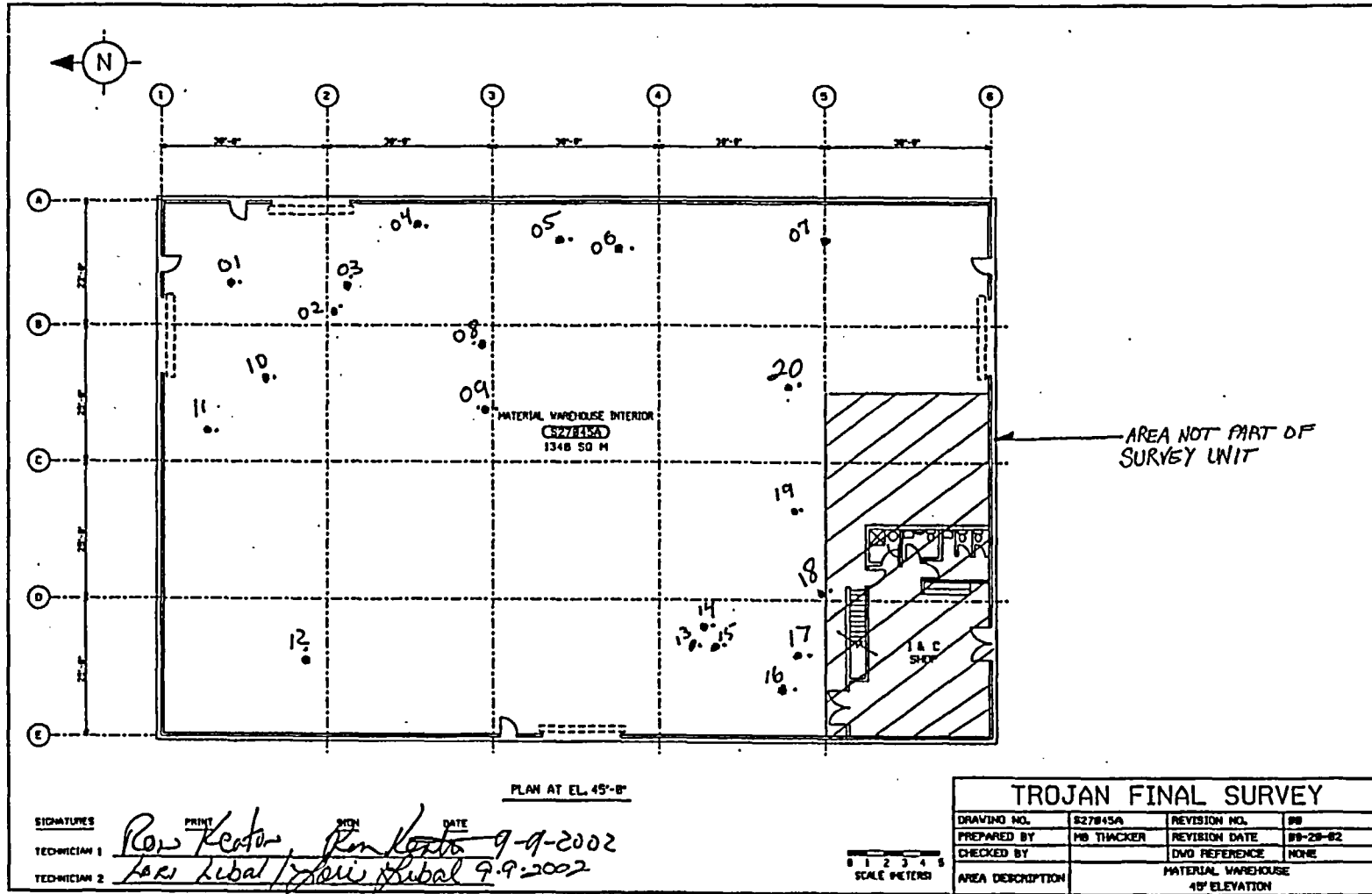
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S27045A
 Survey Unit Name: Materials Warehouse Interior (Excluding I&E Shop)

Classification: Class 3
 Size (m²): 3,946

Static Measurement Locations Map

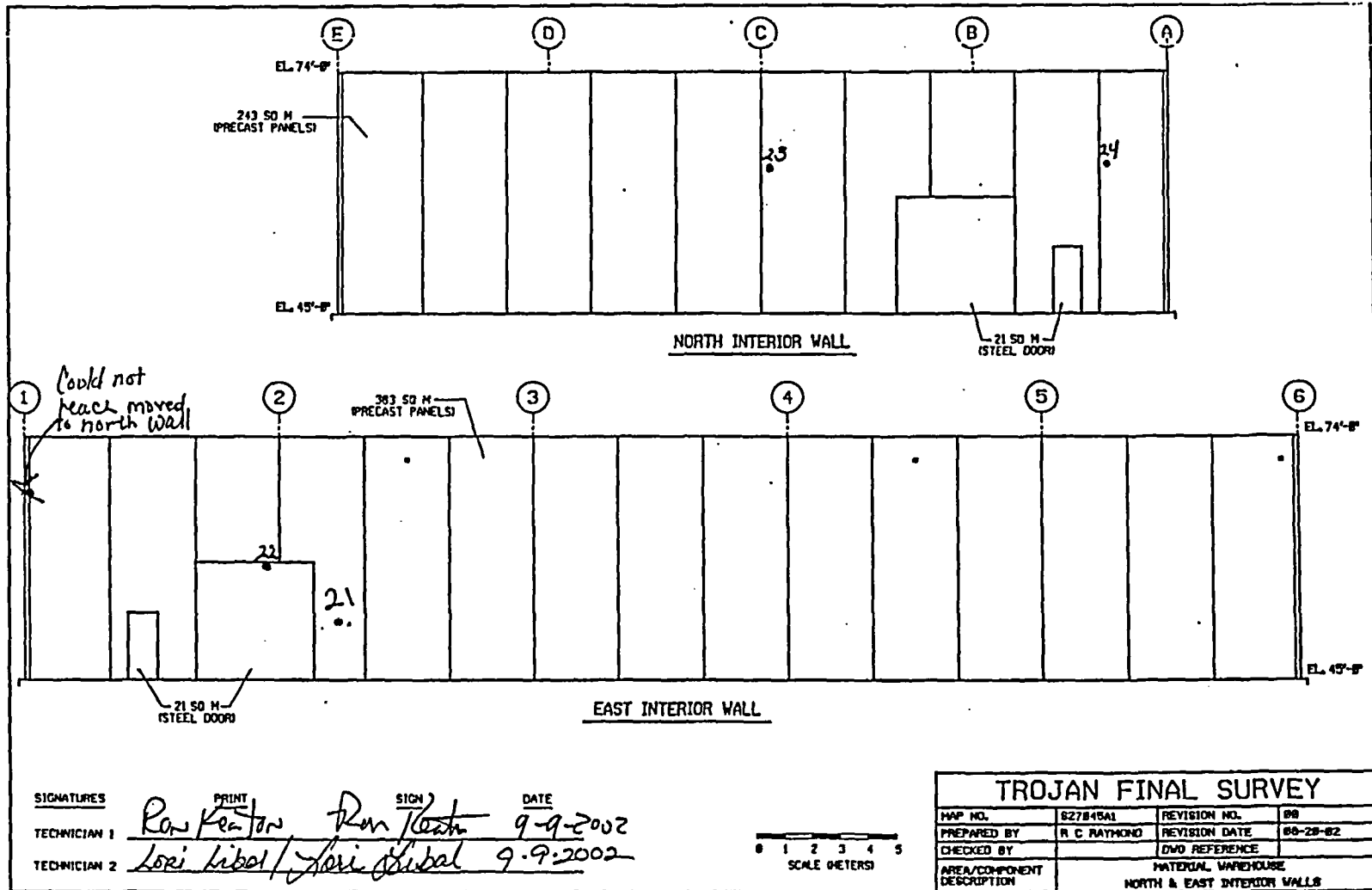


FINAL SURVEY RESULTS SUMMARY

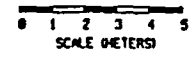
Survey Unit ID Code: S27045A
 Survey Unit Name: Materials Warehouse Interior (Excluding I&E Shop)

Classification: Class 3
 Size (m²): 3,946

Static Measurement Locations Map



SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	Ron Keaton	Ron Keaton	9-9-2002
TECHNICIAN 2	Lori Libal	Lori Libal	9-9-2002



TROJAN FINAL SURVEY			
MAP NO.	S27045A1	REVISION NO.	08
PREPARED BY	R C RAYMOND	REVISION DATE	08-28-02
CHECKED BY		DVD REFERENCE	
AREA/COMPONENT DESCRIPTION	MATERIAL WAREHOUSE NORTH & EAST INTERIOR WALLS		

FILE NAME/LOCATION G:\METRO\COMPONSURVEY\DWG\S27045A1.DWG

FINAL SURVEY RESULTS SUMMARY

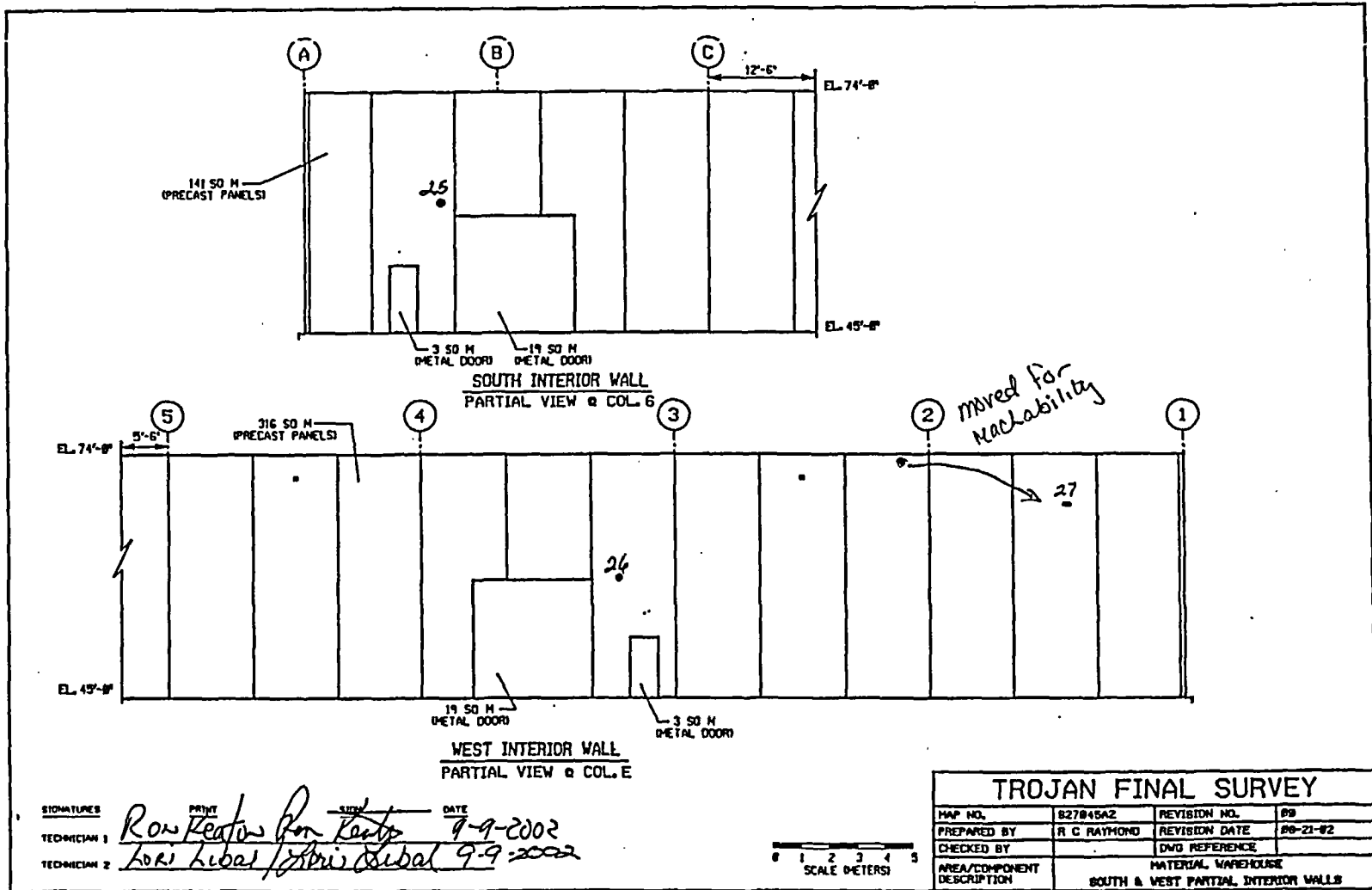
Survey Unit ID Code: S27045A

Survey Unit Name: Materials Warehouse Interior (Excluding I&E Shop)

Classification: Class 3

Size (m²): 3,946

Static Measurement Locations Map



SIGNATURES
 TECHNICIAN 1 *Ron Keaton* DATE 9-9-2002
 TECHNICIAN 2 *Lori Libal* DATE 9-9-2002

TROJAN FINAL SURVEY			
MAP NO.	S27045A2	REVISION NO.	09
PREPARED BY	R C RAYMOND	REVISION DATE	09-21-02
CHECKED BY		DWG REFERENCE	
AREA/COMPONENT DESCRIPTION	MATERIAL WAREHOUSE SOUTH & WEST PARTIAL INTERIOR WALLS		

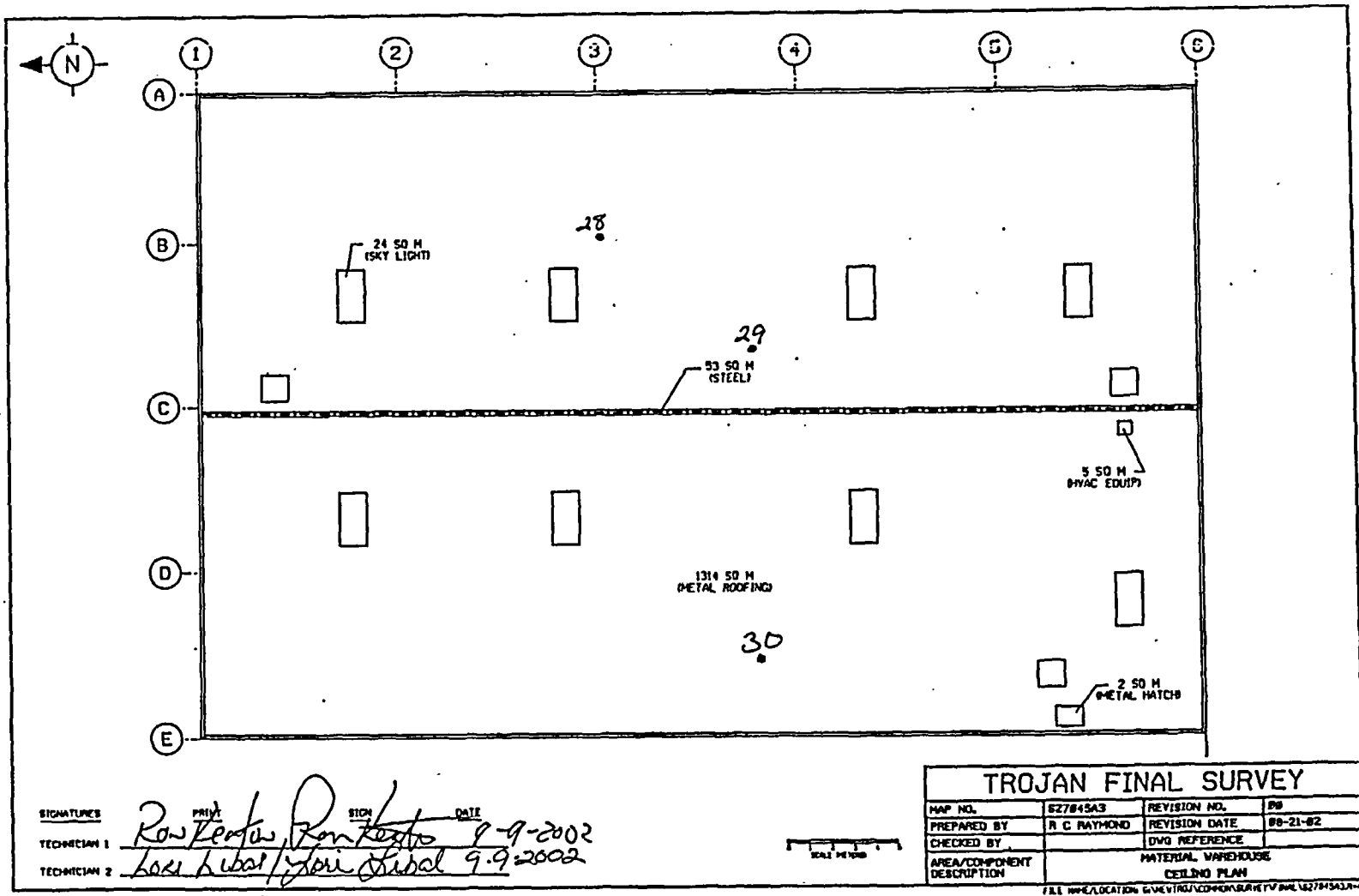
FILE NAME/LOCATION: G:\EVTG\COMP\ON SURVEY\DWG\LS27045A2.DWG

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S27045A
 Survey Unit Name: Materials Warehouse Interior (Excluding I&E Shop)

Classification: Class 3
 Size (m²): 3,946

Static Measurement Locations Map



SIGNATURES
 TECHNICIAN 1 *Ron Kenton* PRINT SIGN DATE *Ron Kenton* 9-9-2002
 TECHNICIAN 2 *Loxi Libal* PRINT SIGN DATE *Loxi Libal* 9-9-2002

TROJAN FINAL SURVEY			
MAP NO.	E27045A3	REVISION NO.	00
PREPARED BY	R C RAYMOND	REVISION DATE	00-21-02
CHECKED BY		DWG REFERENCE	
AREA/COMPONENT DESCRIPTION	MATERIAL WAREHOUSE CEILING PLAN		

FILE NAME/LOCATION: G:\METRO\CD\CONCRETE\DWG\E27045A3.DWG

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S27045B
 Survey Unit Name: Materials Warehouse I&E Shop

Classification: Class 3
 Size (m²): 508

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 7.410e+002
 Maximum Value : 1.362e+003
 Range : 6.210e+002
 Median : 9.291e+002
 Std. Deviation : 1.235e+002
 Mean : 9.412e+002
 95% UCL : 9.795e+002

Measurement Values

Location	Value	Location	Value
000001	9.065e+002	000018	9.291e+002
000002	8.200e+002	000019	9.892e+002
000003	8.388e+002	000020	8.802e+002
000004	1.362e+003	000021	8.087e+002
000005	9.892e+002	000022	9.441e+002
000006	1.151e+003	000023	7.824e+002
000007	9.291e+002	000024	8.952e+002
000008	8.200e+002	000025	1.008e+003
000009	8.764e+002	000026	1.001e+003
000010	9.742e+002	000027	8.614e+002
000011	9.140e+002	000028	1.083e+003
000012	9.667e+002	000029	7.410e+002
000013	9.892e+002	000030	1.023e+003
000014	9.027e+002		
000015	9.968e+002		
000016	8.012e+002		
000017	1.053e+003		

FINAL SURVEY RESULTS SUMMARY

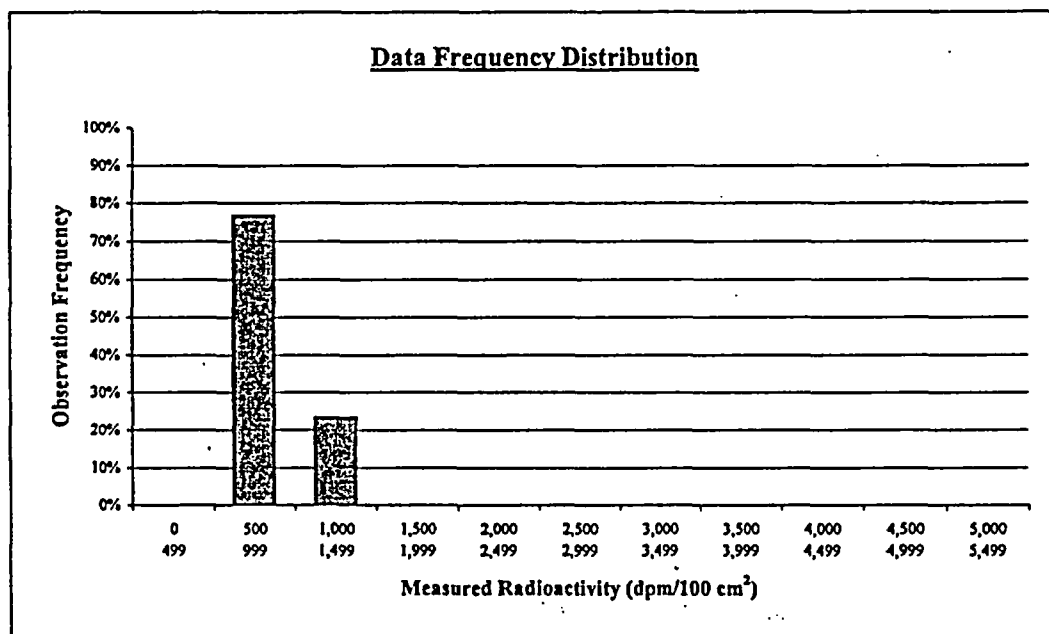
Survey Unit ID Code: S27045B
 Survey Unit Name: Materials Warehouse I&E Shop

Classification: Class 3
 Size (m²): 508

Measurement Data Statistical Evaluation

Statistical Comparisons				Statistical Quantities	
Test	Calculated Value	Acceptance Criteria	Acceptable?		
Range	621	618	See comment below	Range:	621
Median	0.099	0.500	Pass	Median:	929
Mean	941	10,500	Pass	Mean:	941
Std Dev	124	4,200	Pass	Std Dev:	124
				Minimum:	741
				Maximum:	1,362
				DCGL:	21,000

All data less than DCGL; Sign statistical test not required.



Plot Parameters		Interval	High End	Low End	Number of Observations	Observation Frequency
# of measurements:	30	1	499	0	0	0%
# of intervals:	11	2	999	500	23	77%
Interval increment:	500	3	1,499	1,000	7	23%
Minimum:	0	4	1,999	1,500	0	0%
Maximum:	5,499	5	2,499	2,000	0	0%
		6	2,999	2,500	0	0%
		7	3,499	3,000	0	0%
		8	3,999	3,500	0	0%
		9	4,499	4,000	0	0%
		10	4,999	4,500	0	0%
		11	5,499	5,000	0	0%
		Total:			30	100%

Comment:
 Range failure is a test artifact due to a very small standard deviation (SD) for the data set, resulting in a range value 5.008(SD), which just exceeds the acceptance criterion of 5.0(SD).
 All values are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S27045B

Classification: Class 3

Survey Unit Name: Materials Warehouse I&E Shop

Size (m²): 508

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 10

Measurement Units: dpm/100cm²

Investigation Level: 21,000

Minimum Value: 927

Maximum Value: 1,590

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 2,100

Minimum Value: 45

Maximum Value: 83

Discussion of Anomalous Measurement Data

Investigation Summary

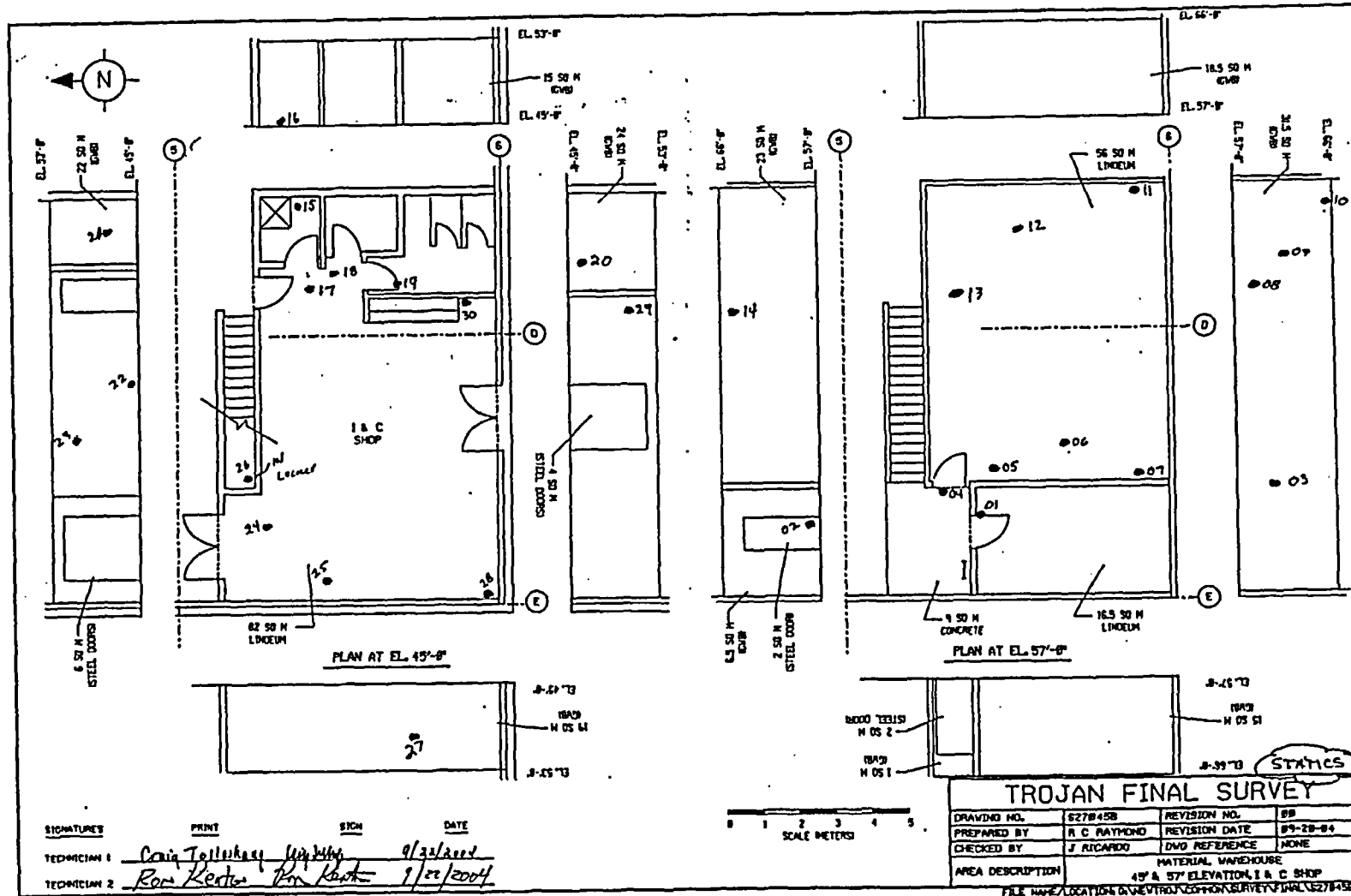
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S27045B
 Survey Unit Name: Materials Warehouse I&E Shop

Classification: Class 3
 Size (m²): 508

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S38045A
 Survey Unit Name: Discharge and Dilution Structure Interior

Classification: Class 3
 Size (m²): 172

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 5.387e+002
 Maximum Value : 9.335e+002
 Range : 3.948e+002
 Median : 7.320e+002
 Std. Deviation : 1.172e+002
 Mean : 7.200e+002
 95% UCL : 7.563e+002

Measurement Values

Location	Value	Location	Value
000001	6.950e+002	000018	9.211e+002
000002	5.551e+002	000019	8.553e+002
000003	5.880e+002	000020	8.142e+002
000004	6.703e+002	000021	7.361e+002
000005	5.675e+002	000022	7.566e+002
000006	7.608e+002	000023	8.882e+002
000007	8.060e+002	000024	8.636e+002
000008	7.361e+002	000025	9.335e+002
000009	7.402e+002	000026	7.608e+002
000010	7.073e+002	000027	6.497e+002
000011	5.880e+002	000028	7.279e+002
000012	5.387e+002	000029	7.484e+002
000013	6.292e+002	000030	8.759e+002
000014	5.387e+002		
000015	6.785e+002		
000016	5.510e+002		
000017	7.196e+002		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S38045A

Classification: Class 3

Survey Unit Name: Discharge and Dilution Structure Interior

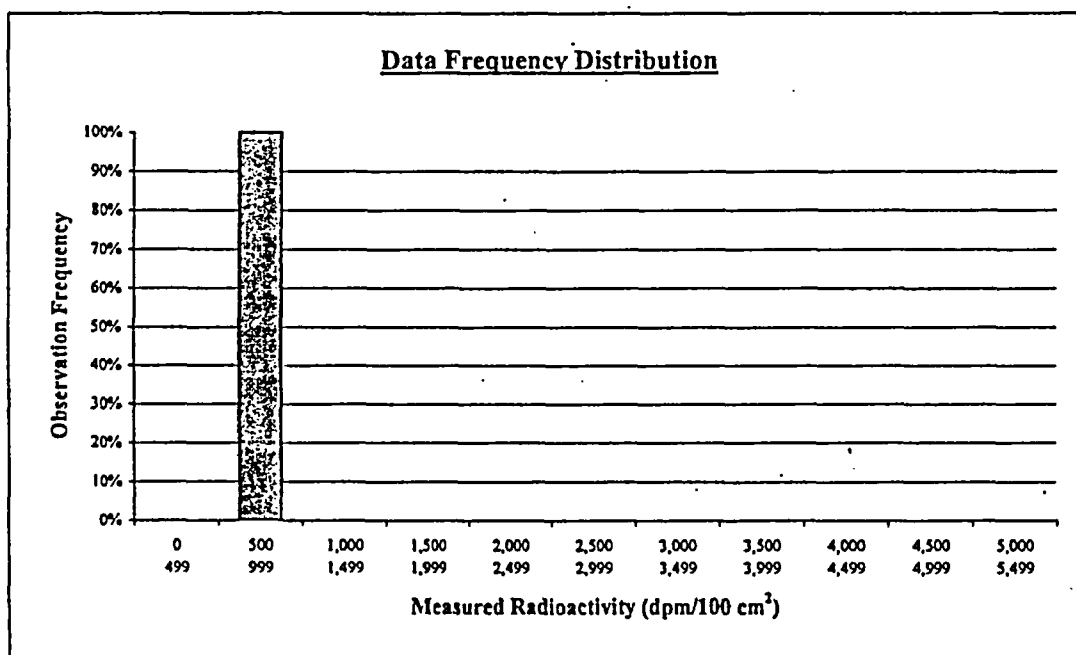
Size (m²): 172

Measurement Data Statistical Evaluation

Statistical Comparisons			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	395	586	Pass
Median	0.102	0.500	Pass
Mean	720	10,500	Pass
Std Dev	117	4,200	Pass

Statistical Quantities	
Range:	395
Median:	732
Mean:	720
Std Dev:	117
Minimum:	539
Maximum:	934
DCGL:	21,000

All data less than DCGL; Sign statistical test not required.



Plot Parameters	
# of measurements:	30
# of intervals:	11
Interval increment:	500
Minimum:	0
Maximum:	5,499

Interval	High End	Low End	Number of Observations	Observation Frequency
1	499	0	0	0%
2	999	500	30	100%
3	1,499	1,000	0	0%
4	1,999	1,500	0	0%
5	2,499	2,000	0	0%
6	2,999	2,500	0	0%
7	3,499	3,000	0	0%
8	3,999	3,500	0	0%
9	4,499	4,000	0	0%
10	4,999	4,500	0	0%
11	5,499	5,000	0	0%
Total:			30	100%

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S38045A

Classification: Class 3

Survey Unit Name: Discharge and Dilution Structure Interior

Size (m²): 172

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 10

Measurement Units: dpm/100cm²

Investigation Level: 21,000

Minimum Value: 881

Maximum Value: 1,486

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 2,100

Minimum Value: 43

Maximum Value: 79

Discussion of Anomalous Measurement Data

Investigation Summary

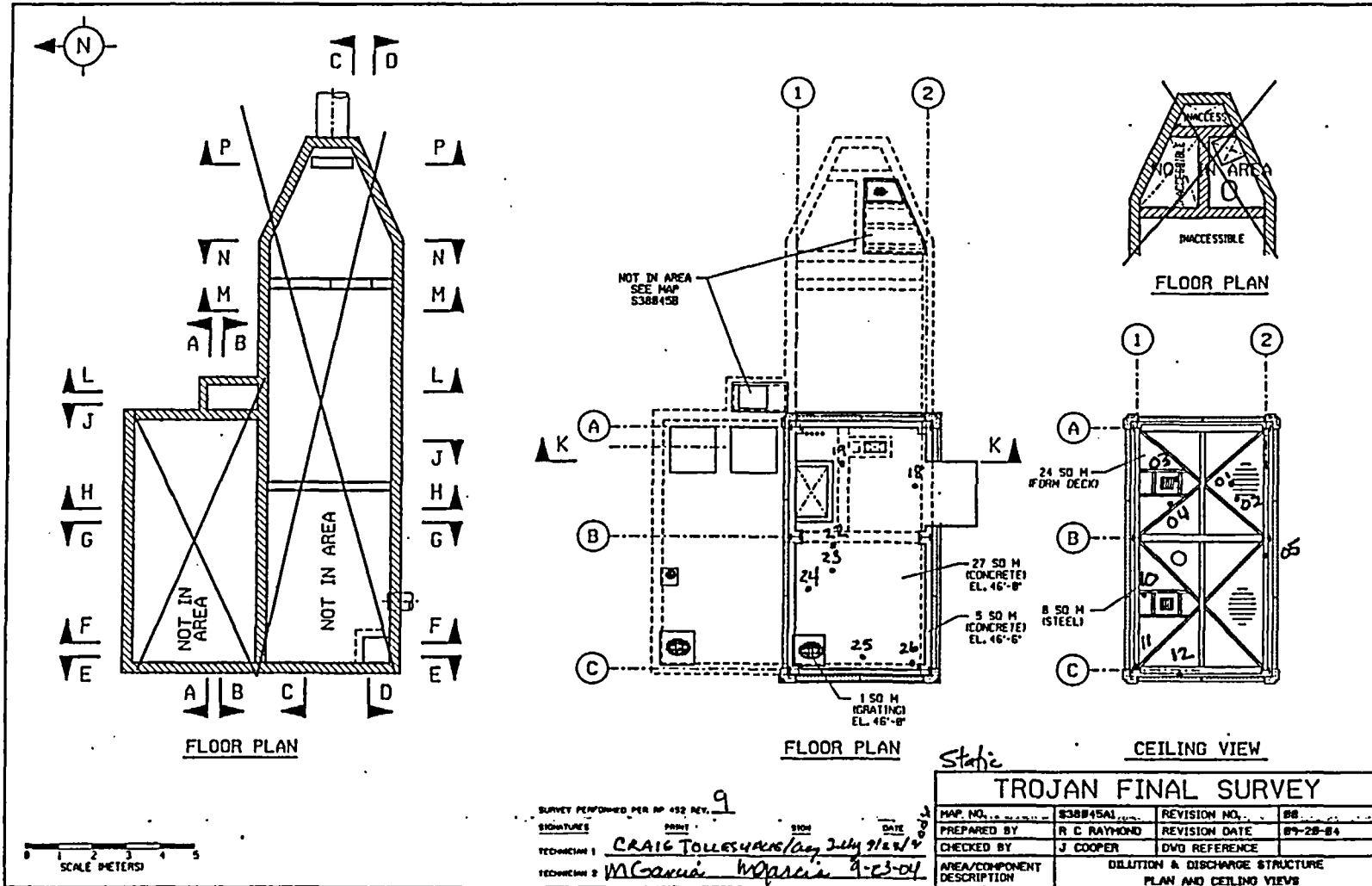
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S38045A
 Survey Unit Name: Discharge and Dilution Structure Interior

Classification: Class 3
 Size (m²): 172

Static Measurement Locations Map

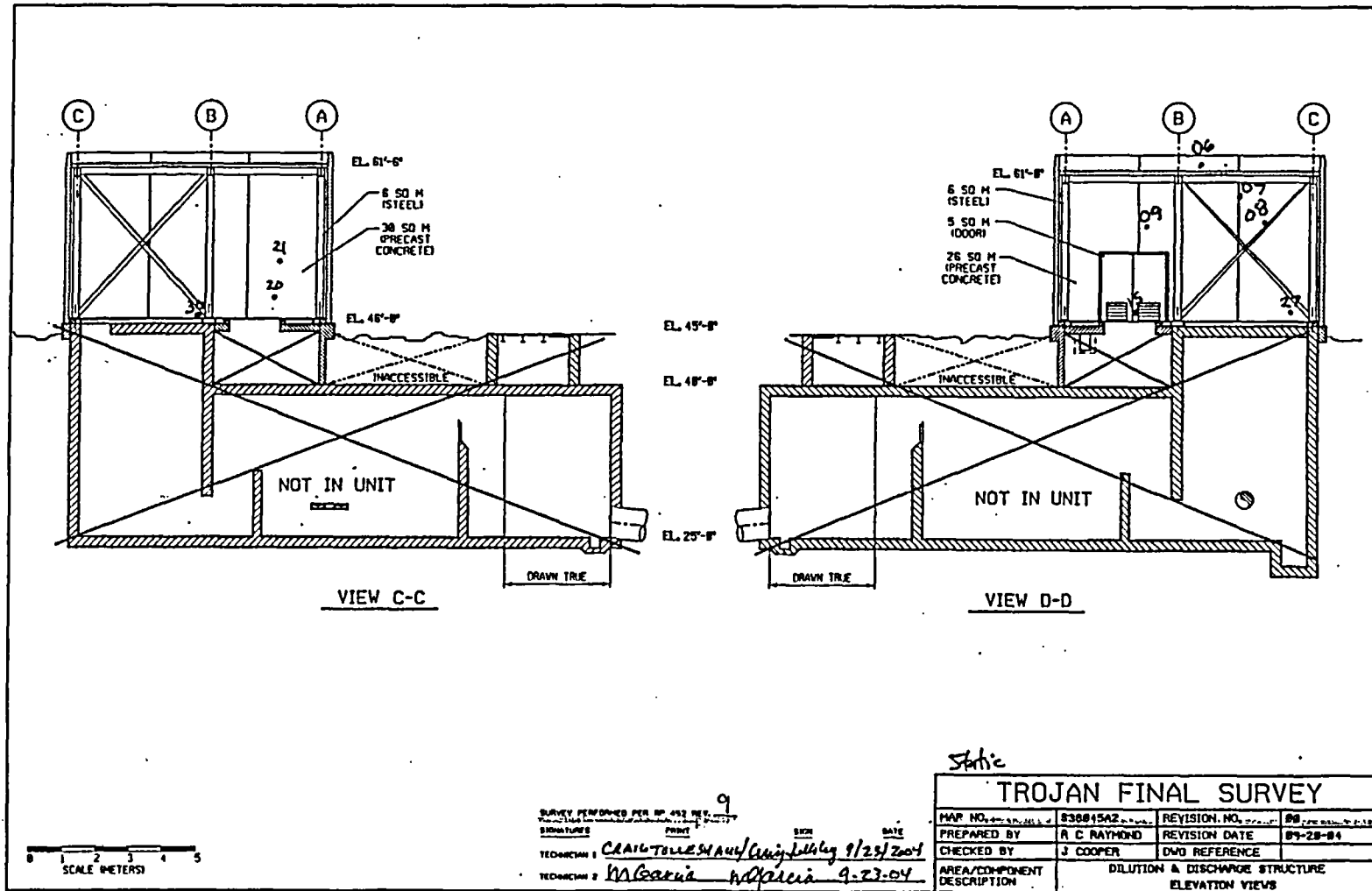


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S38045A
 Survey Unit Name: Discharge and Dilution Structure Interior

Classification: Class 3
 Size (m²): 172

Static Measurement Locations Map

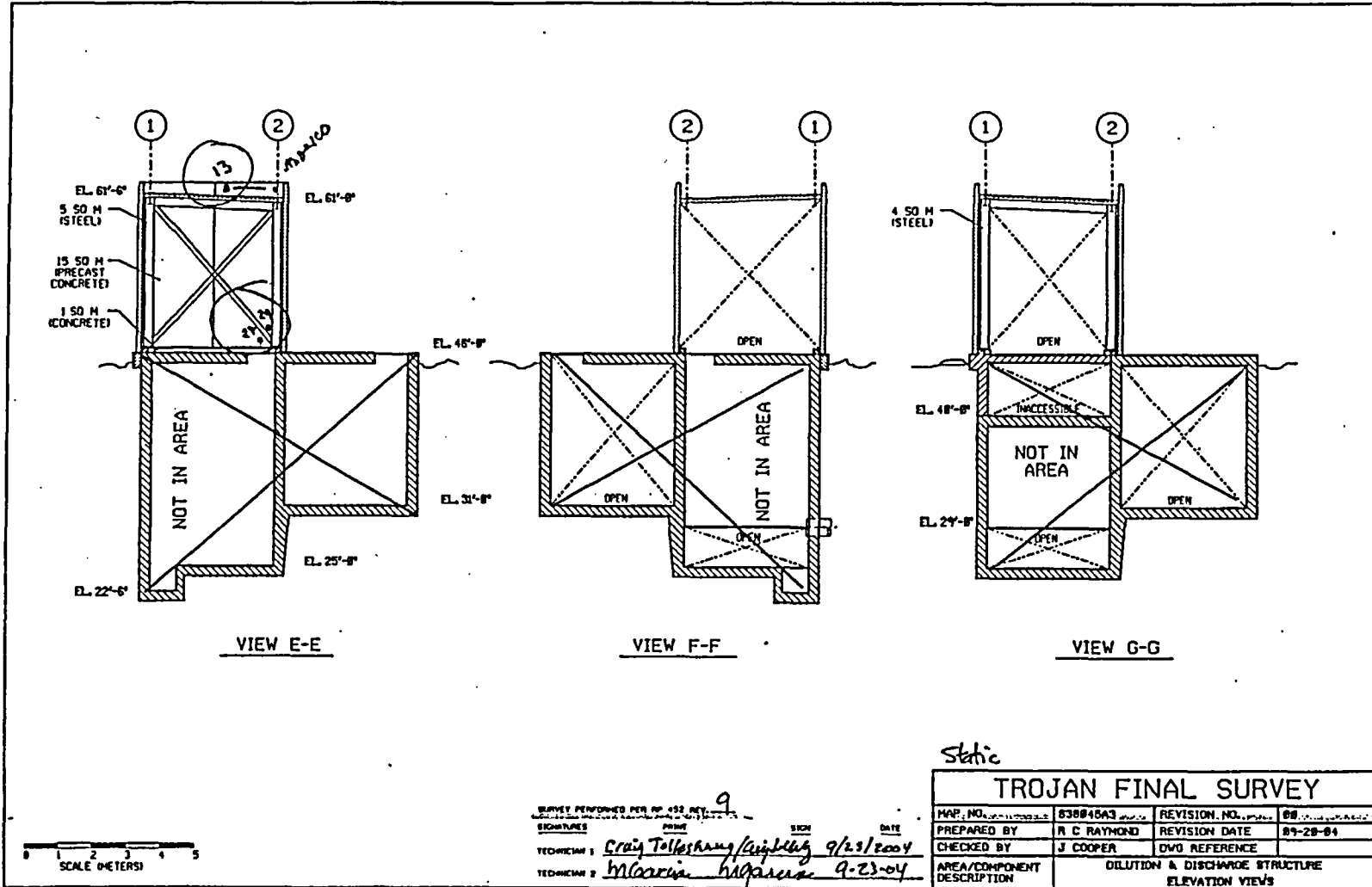


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S38045A
 Survey Unit Name: Discharge and Dilution Structure Interior

Classification: Class 3
 Size (m²): 172

Static Measurement Locations Map

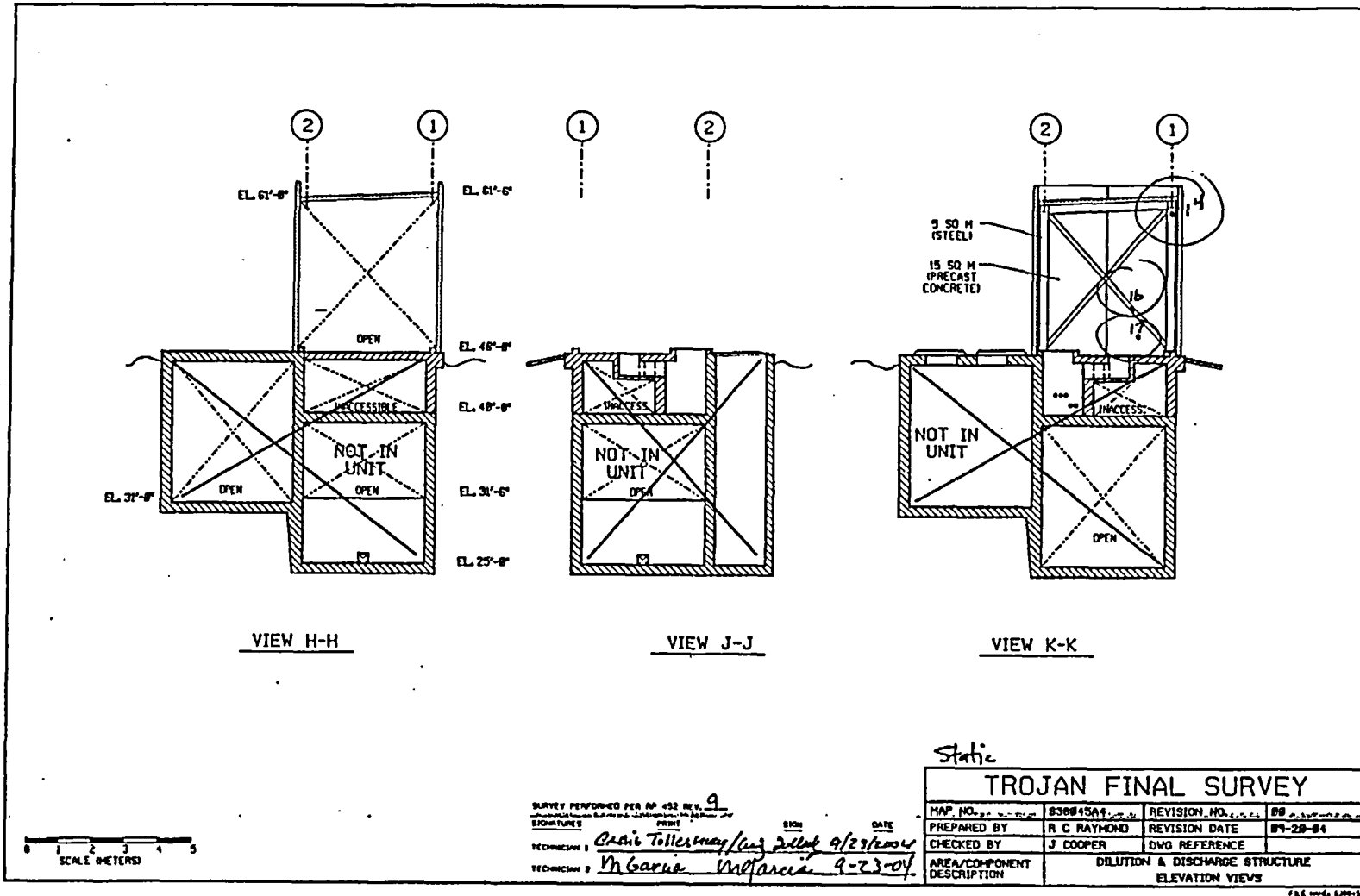


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S38045A
 Survey Unit Name: Discharge and Dilution Structure Interior

Classification: Class 3
 Size (m²): 172

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S44045A
 Survey Unit Name: Gas Bottle Storage Building Interior
 Walls and Ceiling

Classification: Class 3
 Size (m²): 1,196

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 6.634e+002
 Maximum Value : 1.876e+003
 Range : 1.213e+003
 Median : 1.437e+003
 Std. Deviation : 3.609e+002
 Mean : 1.331e+003
 95% UCL : 1.443e+003

Measurement Values

Location	Value	Location	Value
000001	1.567e+003	000018	6.960e+002
000002	1.616e+003	000019	1.327e+003
000003	1.384e+003	000020	1.563e+003
000004	1.876e+003	000021	1.400e+003
000005	1.689e+003	000022	6.634e+002
000006	1.669e+003	000023	6.838e+002
000007	1.632e+003	000024	6.960e+002
000008	1.506e+003	000025	1.412e+003
000009	1.567e+003	000026	1.368e+003
000010	1.624e+003	000027	1.429e+003
000011	1.270e+003	000028	1.481e+003
000012	1.445e+003	000029	1.461e+003
000013	1.396e+003	000030	1.640e+003
000014	1.514e+003		
000015	7.448e+002		
000016	8.466e+002		
000017	7.652e+002		

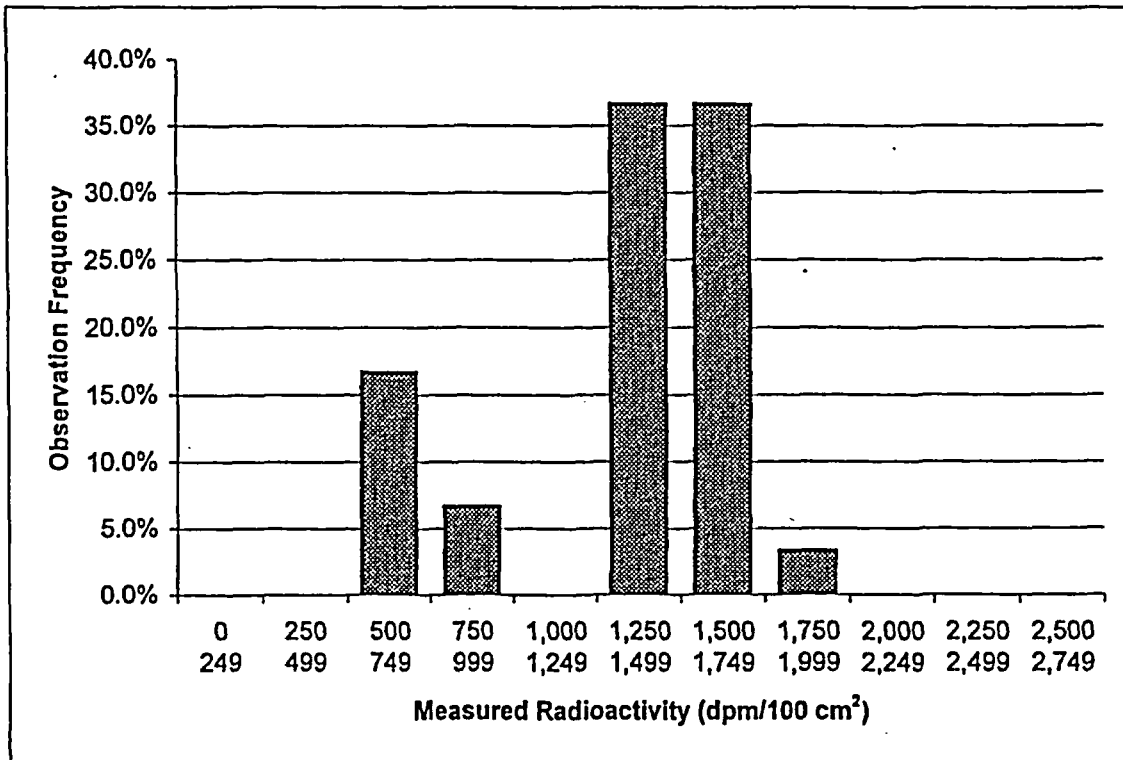
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S44045A
 Survey Unit Name: Gas Bottle Storage Building Interior
 Walls and Ceiling

Classification: Class 3
 Size (m²): 1,196

Measurement Data Statistical Evaluation

Statistical Quantiles Tests				Statistical Quantiles	
Test	Value	Criteria	Acceptable?	Range:	1,213
Range	1,213	1,804	Pass	Median:	1,437
Median	0.294	0.500	Pass	Mean:	1,331
Mean	1,331	10,500	Pass	Std Dev:	361
Std Dev	361	4,200	Pass	Minimum:	663
				Maximum:	1,876
				DCGL:	21,000



Plot Parameters		Interval	High	Low	Number	Frequency
# of measurements:	30	1	249	0	0	0.0%
# of intervals:	11	2	499	250	0	0.0%
Interval increment:	250	3	749	500	5	16.7%
Minimum:	0	4	999	750	2	6.7%
Maximum:	2,749	5	1,249	1,000	0	0.0%
		6	1,499	1,250	11	36.7%
		7	1,749	1,500	11	36.7%
		8	1,999	1,750	1	3.3%
		9	2,249	2,000	0	0.0%
		10	2,499	2,250	0	0.0%
		11	2,749	2,500	0	0.0%
Total:					30	100%

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S44045A

Classification: Class 3

Survey Unit Name: Gas Bottle Storage Building Interior
Walls and Ceiling

Size (m²): 1,196

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 2

Measurement Units: dpm/100cm²

Investigation Level: 21,000

Minimum Value: 849

Maximum Value: 1,913

Discussion of Anomalous Measurement Data

Investigation Summary

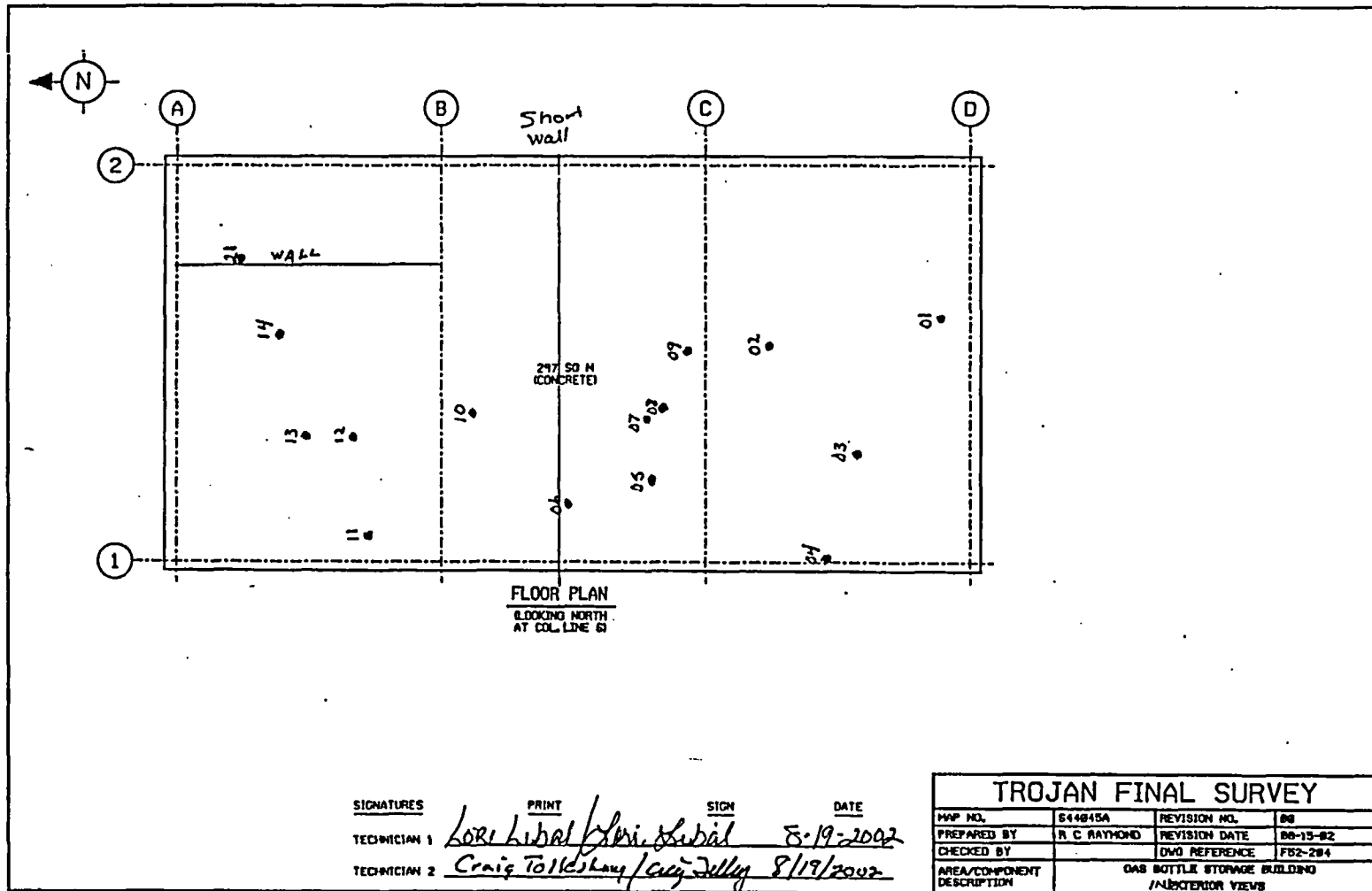
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S44045A
 Survey Unit Name: Gas Bottle Storage Building Interior Walls and Ceiling

Classification: Class 3
 Size (m²): 1,196

Static Measurement Locations Map

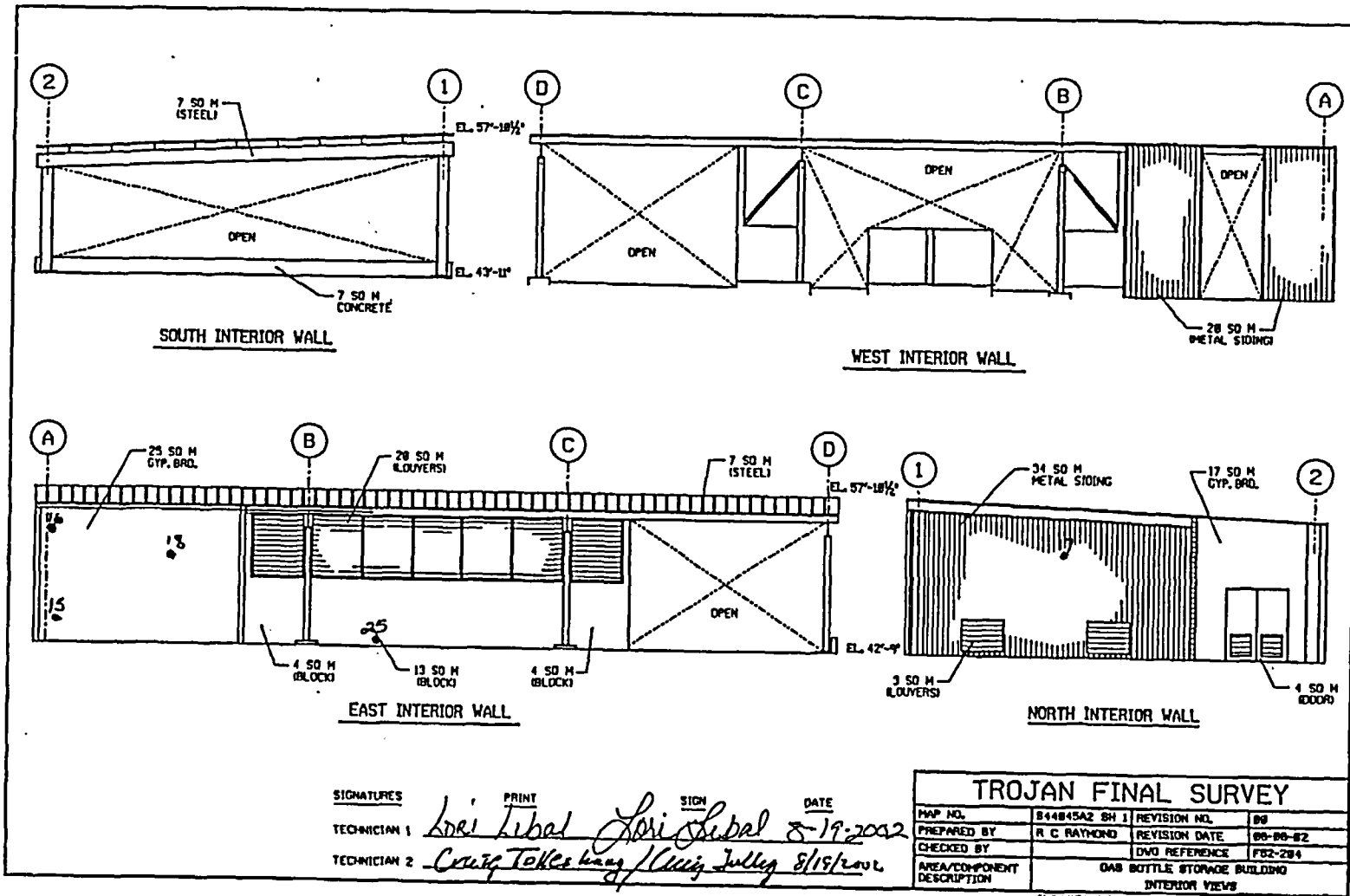


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S44045A
 Survey Unit Name: Gas Bottle Storage Building Interior Walls and Ceiling

Classification: Class 3
 Size (m²): 1,196

Static Measurement Locations Map



SIGNATURES PRINT SIGN DATE
 TECHNICIAN 1 *Lori Libal* Lori Libal 8-19-2002
 TECHNICIAN 2 *Craig Tolkes* Craig Tolkes 8/19/2002

TROJAN FINAL SURVEY			
MAP NO.	S44045A2 SH 1	REVISION NO.	00
PREPARED BY	R. C. RAYMOND	REVISION DATE	00-00-02
CHECKED BY		DWG REFERENCE	F02-204
AREA/COMPONENT DESCRIPTION	GAS BOTTLE STORAGE BUILDING INTERIOR WALLS		

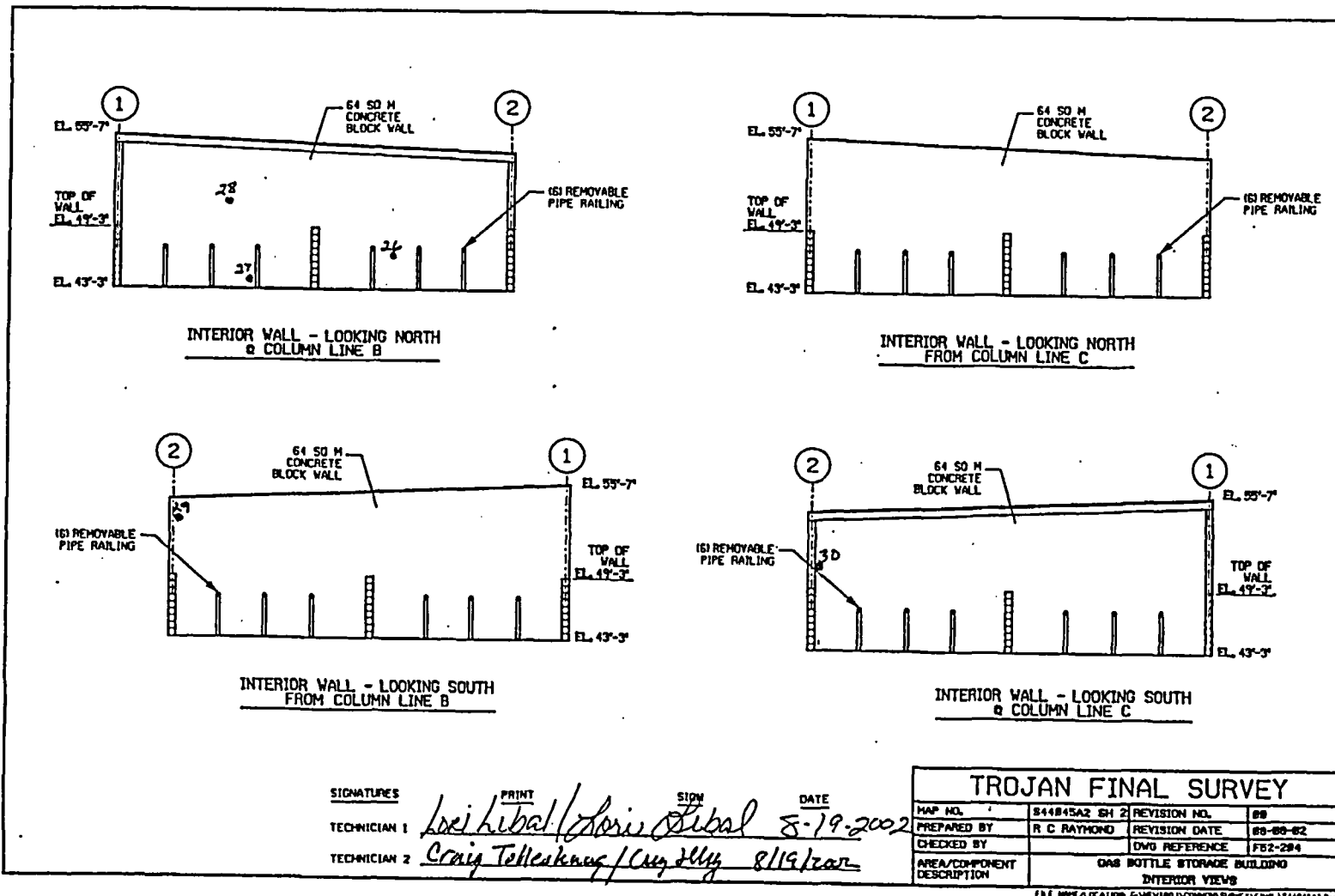
FILE NAME: LOCATION: D:\REV\IND\CONTR\SURVE\17\DWG\S44045A2.dwg

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S44045A
 Survey Unit Name: Gas Bottle Storage Building Interior Walls and Ceiling

Classification: Class 3
 Size (m²): 1,196

Static Measurement Locations Map



SIGNATURES
 TECHNICIAN 1 *Lori Libal* PRINT *Lori Libal* SIGN *Lori Libal* DATE *8-19-2002*
 TECHNICIAN 2 *Craig Tellekaug* / *Craig Tellekaug* DATE *8/19/2002*

TROJAN FINAL SURVEY			
MAP NO.	S44045A2 SH 2	REVISION NO.	09
PREPARED BY	R C RAYMOND	REVISION DATE	08-09-02
CHECKED BY		DWG REFERENCE	FB2-284
AREA/COMPONENT DESCRIPTION	GAS BOTTLE STORAGE BUILDING INTERIOR VIEWS		

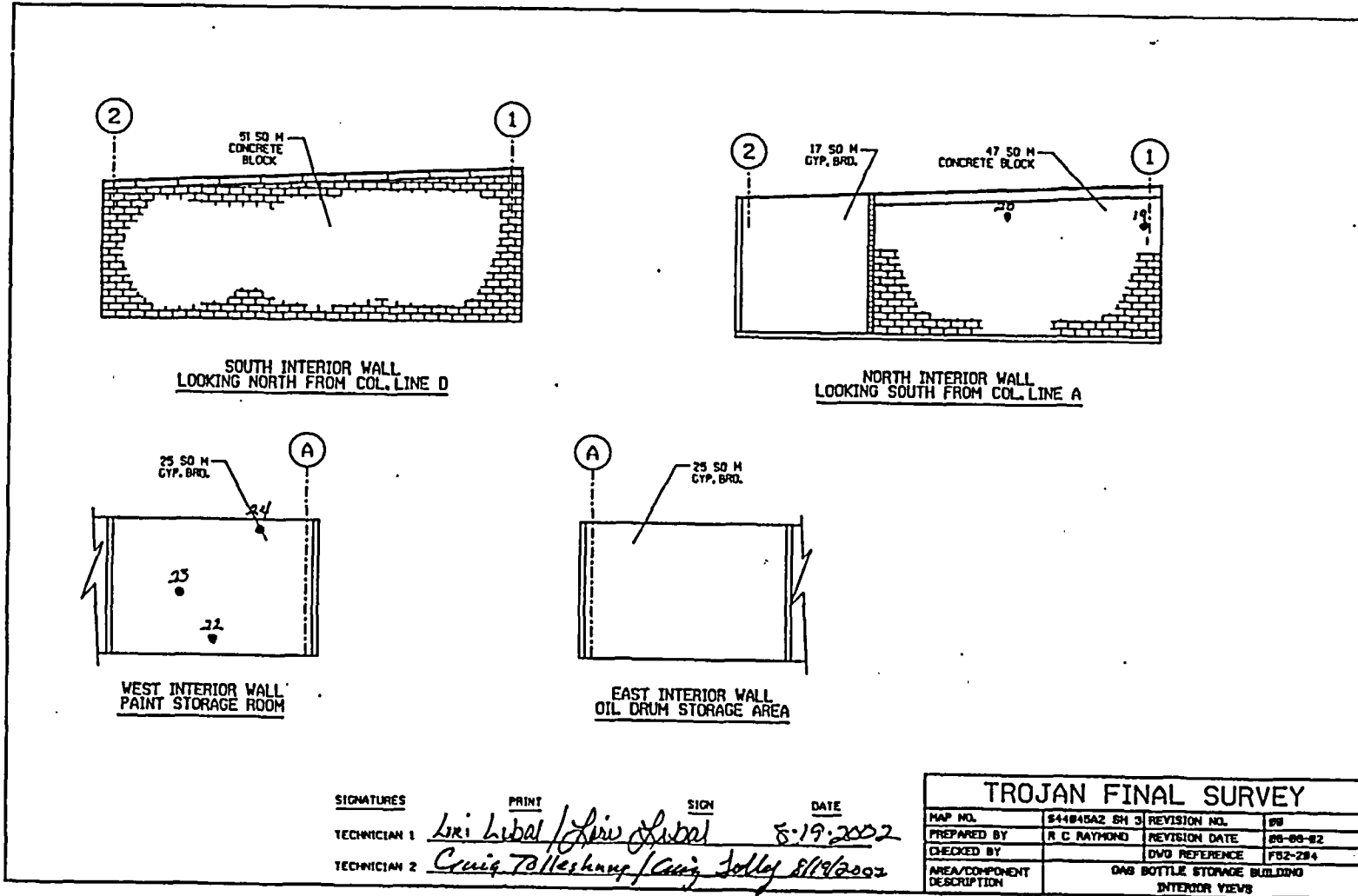
FILE NAME/LOCATION: G:\VEYING\COMP\04\SURV\TV\041514045A2.dwg

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S44045A
 Survey Unit Name: Gas Bottle Storage Building Interior Walls and Ceiling

Classification: Class 3
 Size (m²): 1,196

Static Measurement Locations Map



SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	Lori Libal	<i>Lori Libal</i>	8-19-2002
TECHNICIAN 2	Craig Tolleshaug	<i>Craig Tolleshaug</i>	8/19/2002

TROJAN FINAL SURVEY			
MAP NO.	S44045A2 SH 3	REVISION NO.	00
PREPARED BY	R. C. RAYMOND	REVISION DATE	08-08-02
CHECKED BY		DWG REFERENCE	FB2-284
AREA/COMPONENT DESCRIPTION	GAS BOTTLE STORAGE BUILDING INTERIOR VIEWS		

FILE APPLICATION G:\METRO\CONTR\SURVEY\BULLS44045A2.dwg

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S46025A
 Survey Unit Name: Pebble Springs Warehouse

Classification: Class 3
 Size (m²): 1,412

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	2.200e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 1.086e+003
 Maximum Value : 1.501e+003
 Range : 4.150e+002
 Median : 1.339e+003
 Std. Deviation : 1.134e+002
 Mean : 1.318e+003
 95% UCL : 1.353e+003

Measurement Values

Location	Value	Location	Value
000001	1.086e+003	000018	1.335e+003
000002	1.313e+003	000019	1.263e+003
000003	1.172e+003	000020	1.328e+003
000004	1.147e+003	000021	1.284e+003
000005	1.180e+003	000022	1.403e+003
000006	1.346e+003	000023	1.479e+003
000007	1.403e+003	000024	1.342e+003
000008	1.360e+003	000025	1.382e+003
000009	1.201e+003	000026	1.483e+003
000010	1.183e+003	000027	1.465e+003
000011	1.212e+003	000028	1.501e+003
000012	1.418e+003	000029	1.389e+003
000013	1.414e+003	000030	1.342e+003
000014	1.429e+003		
000015	1.234e+003		
000016	1.154e+003		
000017	1.291e+003		

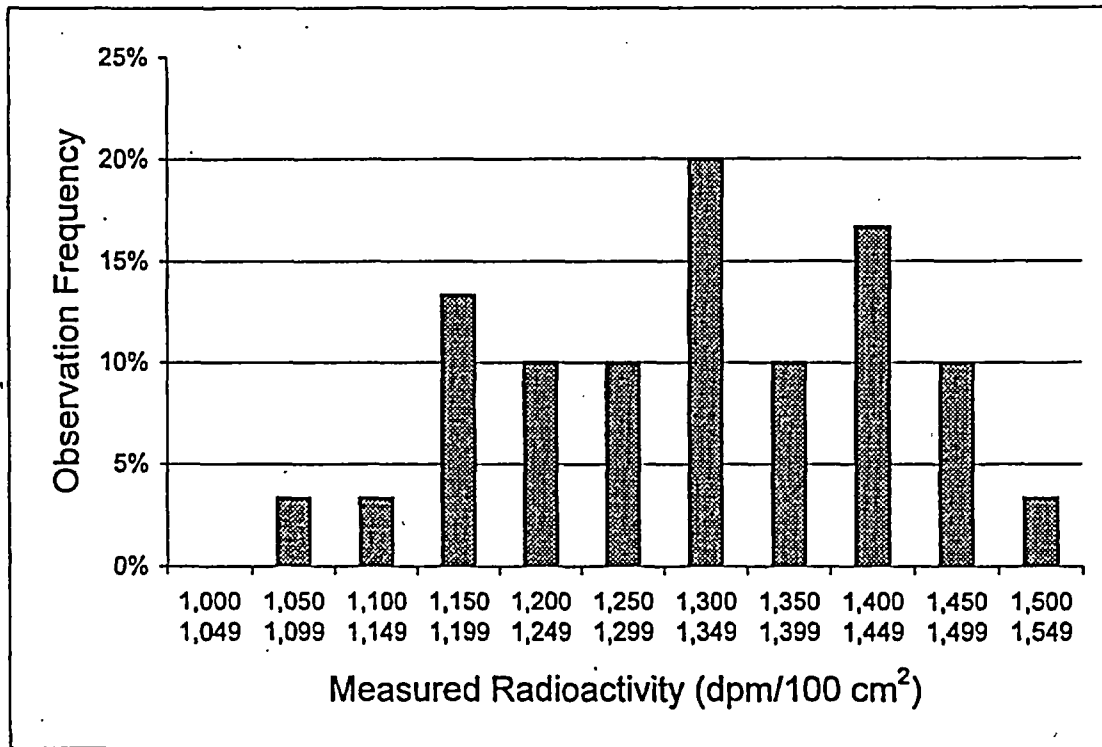
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S46025A
Survey Unit Name: Pebble Springs Warehouse

Classification: Class 3
Size (m²): 1,412

Measurement Data Statistical Evaluation

<u>Statistical Comparisons</u>				<u>Statistical Quantities</u>	
Type	Value	Criteria	Acceptable?	Range:	415
Range	415	567	Pass	Median:	1,339
Median	0.18	0.50	Pass	Mean:	1,318
Mean	1,318	17,600	Pass	Std Dev:	113
Std Dev	113	4,400	Pass	Minimum:	1,086
				Maximum:	1,501
				DCGL:	22,000



<u>Plot Parameters</u>		<u>Number of Observation</u>				
# of measurements:	30	Interval	High End	Low End	Observations	Frequency
# of intervals:	11	1	1,049	1,000	0	0%
Interval increment:	50	2	1,099	1,050	1	3%
Minimum:	1,000	3	1,149	1,100	1	3%
Maximum:	1,549	4	1,199	1,150	4	13%
		5	1,249	1,200	3	10%
		6	1,299	1,250	3	10%
		7	1,349	1,300	6	20%
		8	1,399	1,350	3	10%
		9	1,449	1,400	5	17%
		10	1,499	1,450	3	10%
		11	1,549	1,500	1	3%
		Total:			30	100%

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S46025A
Survey Unit Name: Pebble Springs Warehouse

Classification: Class 3
Size (m²): 1,412

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 1,365

Scan Coverage (%): 5
Investigation Level: 22,000
Maximum Value: 1, 801

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

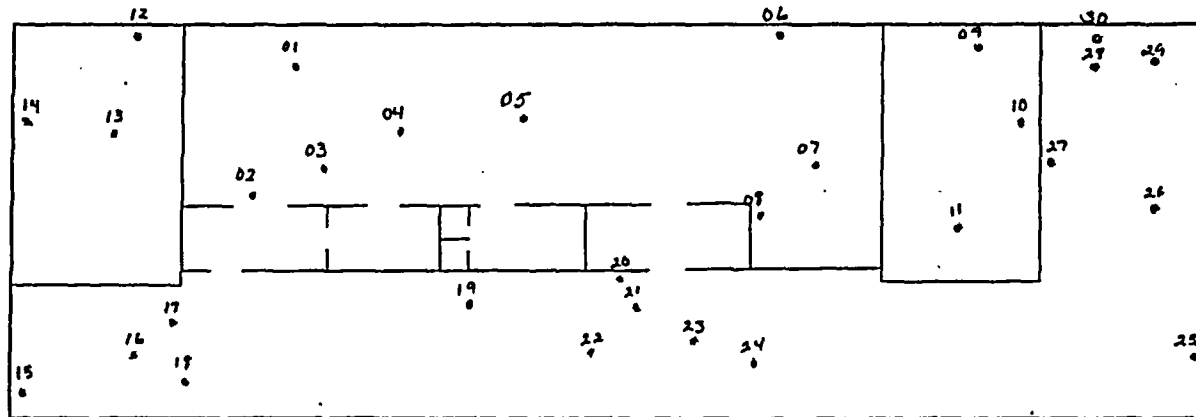
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S46025A
Survey Unit Name: Pebble Springs Warehouse

Classification: Class 3
Size (m²): 1,412

Static Measurement Locations Map

Static Locations 01-30



PEBBLE SPRINGS WAREHOUSE AREA (S46025A)

Loxi Libal (Loxi) Libal 17-17-2001
Survey Technician Date

Ron Keaton Ron Keato 17-17-2001
Survey Technician Date

APPENDIX D

SURVEY UNIT SUMMARY REPORTS –
CONDENSATE DEMINERALIZER BUILDING INTERIOR

<u>Survey Unit ID Code</u>	<u>Page(s)</u>
S07019A	D-2 through D-8
S07019B	D-9 through D-13
S07019C	D-14 through D-19
S07019D	D-20 through D-25
S07019E	D-26 through D-33
S07025A	D-34 through D-42
S07032A	D-43 through D-48
S07045A	D-49 through D-55
S07045B	D-56 through D-59

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019A

Classification: Class 1

Survey Unit Name: Condensate Demineralizer Building

Size (m²): 169

19' Elevation - Floor and Lower Walls - Col B and C/5 and 8

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	34	DPM/100 CM ²	7.500e+003	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 7.426e+002
 Maximum Value : 1.631e+003
 Range : 8.884e+002
 Median : 1.240e+003
 Std. Deviation : 2.289e+002
 Mean : 1.196e+003
 95% UCL : 1.262e+003

Measurement Values

Location	Value	Location	Value
000001	1.092e+003	000018	1.631e+003
000002	1.045e+003	000019	1.316e+003
000003	1.285e+003	000020	1.446e+003
000004	1.383e+003	000021	1.120e+003
000005	9.862e+002	000022	8.722e+002
000006	8.604e+002	000023	1.387e+003
000007	8.447e+002	000024	1.450e+003
000008	8.447e+002	000025	1.473e+003
000009	1.265e+003	000026	7.426e+002
000010	1.422e+003	000027	1.242e+003
000011	1.238e+003	000028	9.862e+002
000012	1.128e+003	000029	1.069e+003
000013	1.139e+003	000030	1.410e+003
000014	1.579e+003	000031	1.418e+003
000015	1.065e+003	000032	1.249e+003
000016	9.783e+002	000033	1.304e+003
000017	1.340e+003	000034	1.053e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019A

Classification: Class 1

Survey Unit Name: Condensate Demineralizer Building

Size (m²): 169

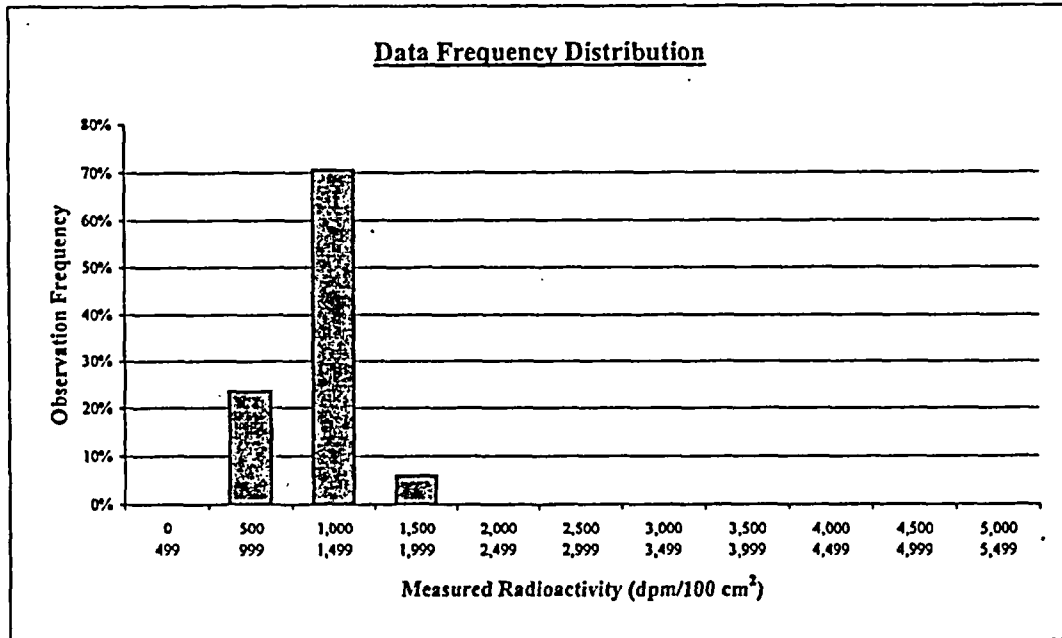
19' Elevation – Floor and Lower Walls – Col B and C/5 and 8

Measurement Data Statistical Evaluation

Statistical Comparisons			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	888	1,145	Pass
Median	0.192	0.500	Pass
Mean	1,196	6,000	Pass
Std Dev	229	1,500	Pass

Statistical Quantities	
Range:	888
Median:	1,240
Mean:	1,196
Std Dev:	229
Minimum:	743
Maximum:	1,631
DCGL:	7,500

All data less than DCGL; Sign statistical test not required.



Plot Parameters	
# of measurements:	34
# of intervals:	11
Interval increment:	500
Minimum:	0
Maximum:	5,499

Comment:
None.

Interval	High End	Low End	Number of Observations	Observation Frequency
1	499	0	0	0%
2	999	500	8	24%
3	1,499	1,000	24	71%
4	1,999	1,500	2	6%
5	2,499	2,000	0	0%
6	2,999	2,500	0	0%
7	3,499	3,000	0	0%
8	3,999	3,500	0	0%
9	4,499	4,000	0	0%
10	4,999	4,500	0	0%
11	5,499	5,000	0	0%
Total:			34	100%

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019A **Classification:** Class 1
Survey Unit Name: Condensate Demineralizer Building **Size (m²):** 169
19' Elevation – Floor and Lower Walls – Col B and C/5 and 8

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta **Scan Coverage (%):** 100
Measurement Units: dpm/100cm² **Investigation Level:** 7,500
Minimum Value: 902 **Maximum Value:** 7,171

Measurement Type: Removable Beta **Number of Measurements:** 34
Measurement Units: dpm/100cm² **Investigation Level:** 750
Minimum Value: 37 **Maximum Value:** 86

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Four scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

DCGL (Investigation Level):	7,500
Measurement Units:	dpm/100cm ²
Maximum Value:	8,353
Size of Area Exceeding DCGL (m²):	N/A
Size of Survey Unit (m²):	N/A
Survey Unit Area >DCGL (%):	N/A
EMC Value:	N/A

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03. Replaced original scan results in SDMS with these results, which corrected to less than the investigation level.

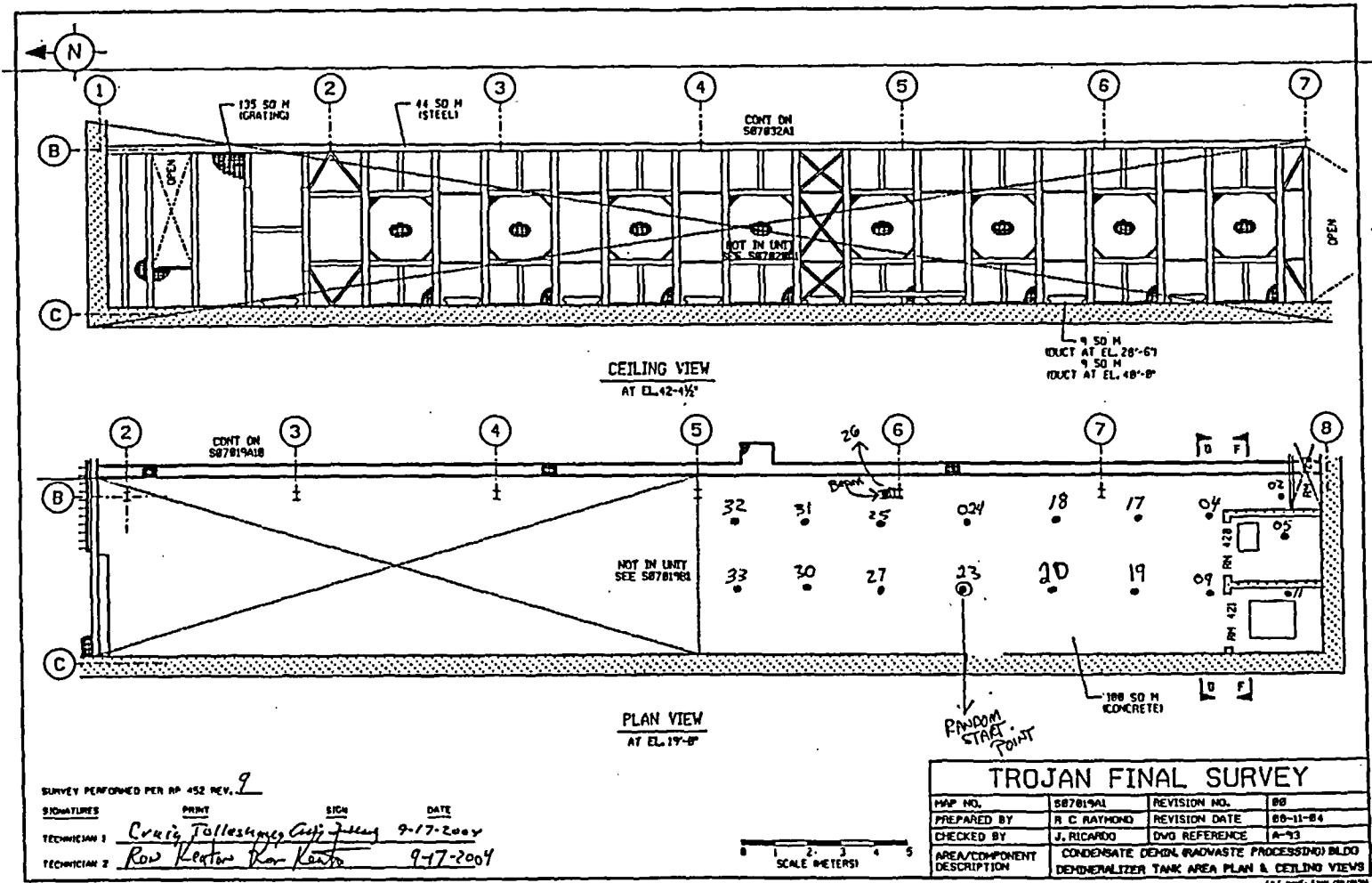
Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019A
 Survey Unit Name: Condensate Demineralizer Building 19' Elevation
 Floor and Lower Walls - Col B and C/5 and 8

Classification: Class 1
 Size (m²): 169

Static Measurement Locations Map

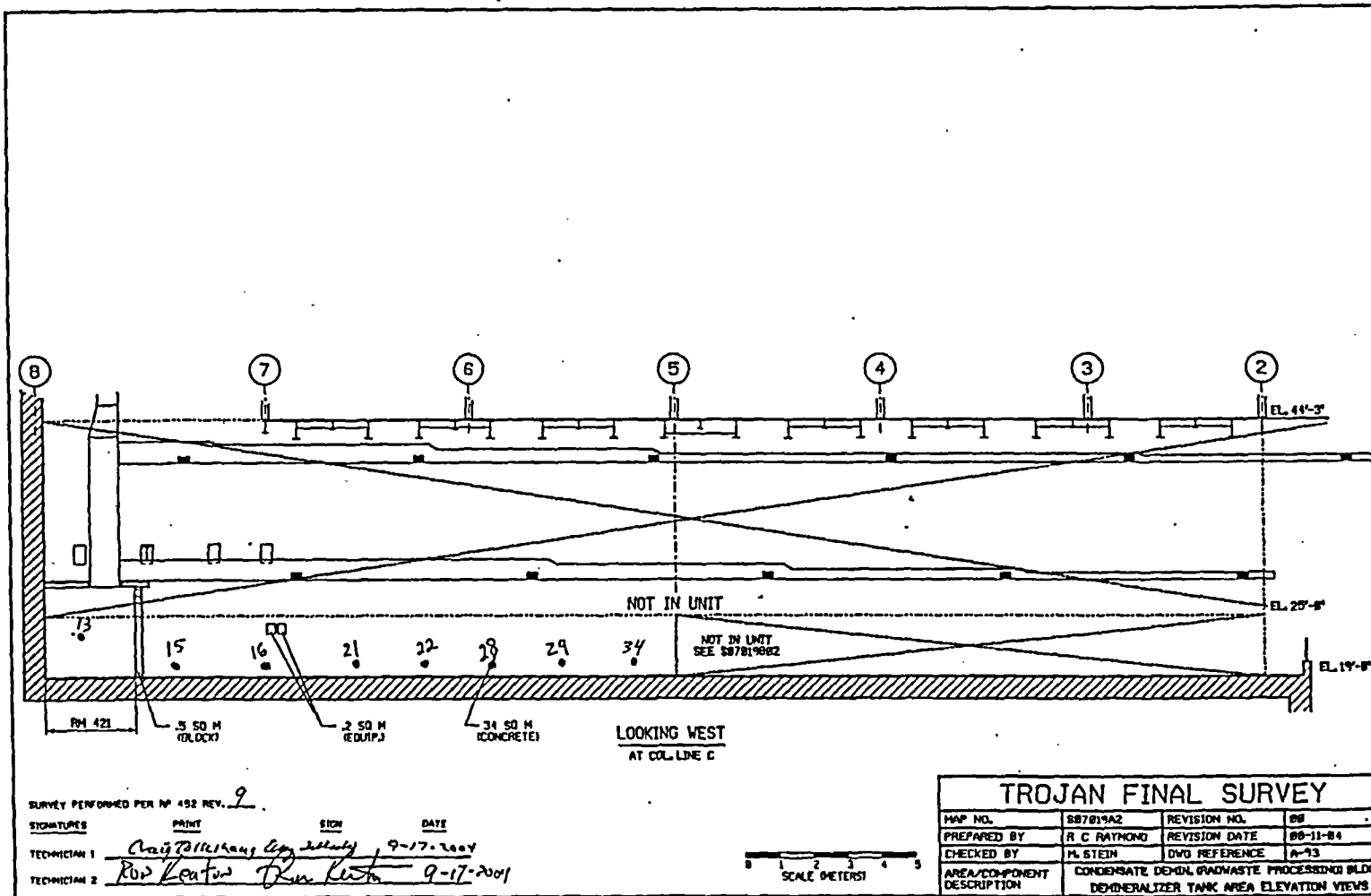


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019A
 Survey Unit Name: Condensate Demineralizer Building 19' Elevation
 Floor and Lower Walls - Col B and C/5 and 8

Classification: Class 1
 Size (m²): 169

Static Measurement Locations Map

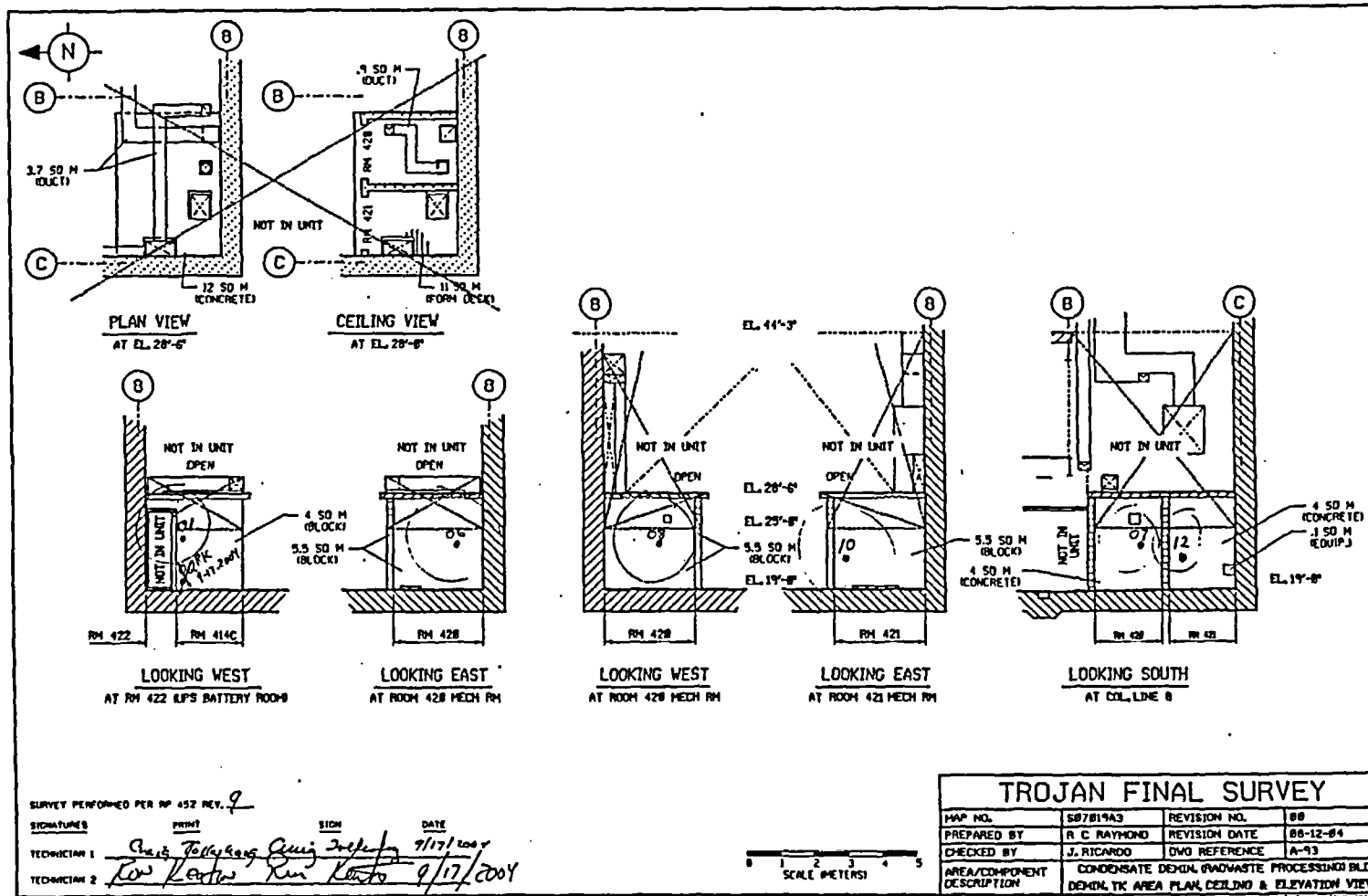


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019A
 Survey Unit Name: Condensate Demineralizer Building 19' Elevation
 Floor and Lower Walls - Col B and C/5 and 8

Classification: Class 1
 Size (m²): 169

Static Measurement Locations Map

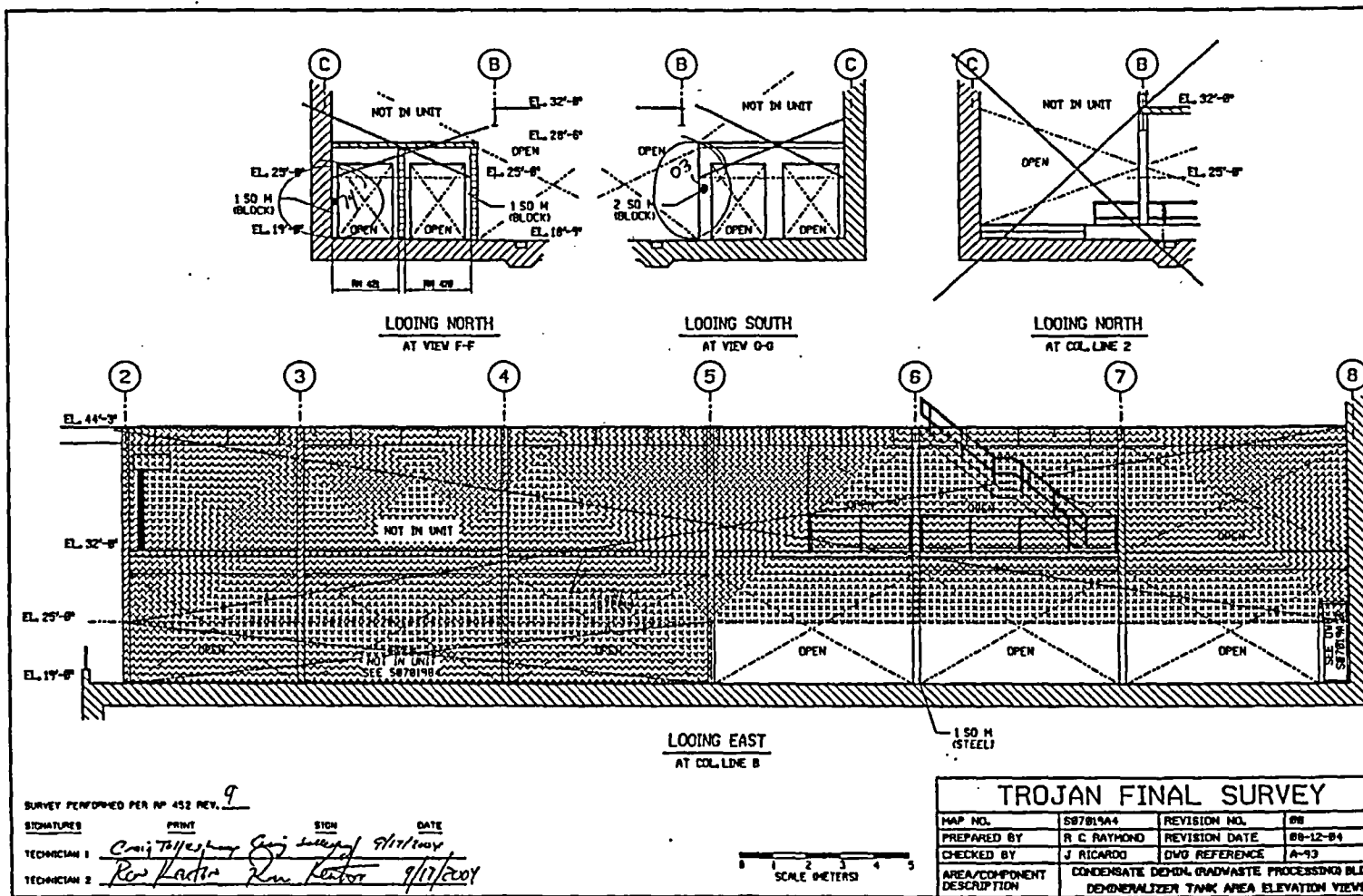


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019A
 Survey Unit Name: Condensate Demineralizer Building 19' Elevation
 Floor and Lower Walls - Col B and C/5 and 8

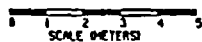
Classification: Class 1
 Size (m²): 169

Static Measurement Locations Map



SURVEY PERFORMED PER MP 452 REV. 9

SIGNATURE	PRINT	SIGN	DATE
<i>Craig T. [Signature]</i>	Craig T. [Print]	<i>[Signature]</i>	9/17/2001
<i>Ray [Signature]</i>	Ray [Print]	<i>[Signature]</i>	9/17/2001



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019B

Classification: Class 1

Survey Unit Name: Condensate Demineralizer Building

Size (m²): 138

19' Elevation - Floor and Lower Walls - Col B and C/2 and 5

Data Quality Values

Type 1 Error : 5.000e-002 **Type 2 Error** : 5.000e-002
Relative Shift : 3.000e+000

Measurement Type Code	# OF Meas.	Measurement Unit	DCGL	SGN	WRS
1	32	DPM/100 CM ²	7.500e+003	-	-

Statistical Quantities

Measurement Name:
Minimum Value : 1.646e+003
Maximum Value : 2.670e+003
Range : 1.024e+003
Median : 2.256e+003
Std. Deviation : 2.556e+002
Mean : 2.194e+003
95% UCL : 2.271e+003

Measurement Values

Location	Value	Location	Value
000001	2.191e+003	000018	2.335e+003
000002	2.171e+003	000019	2.112e+003
000003	2.401e+003	000020	2.447e+003
000004	2.309e+003	000021	2.256e+003
000005	2.328e+003	000022	2.086e+003
000006	2.184e+003	000023	2.263e+003
000007	2.165e+003	000024	1.948e+003
000008	2.486e+003	000025	1.797e+003
000009	2.473e+003	000026	1.764e+003
000010	2.670e+003	000027	1.830e+003
000011	2.256e+003	000028	1.902e+003
000012	2.256e+003	000029	1.646e+003
000013	2.171e+003	000030	2.388e+003
000014	2.604e+003	000031	1.778e+003
000015	2.440e+003	000032	1.955e+003
000016	2.276e+003		
000017	2.322e+003		

FINAL SURVEY RESULTS SUMMARY

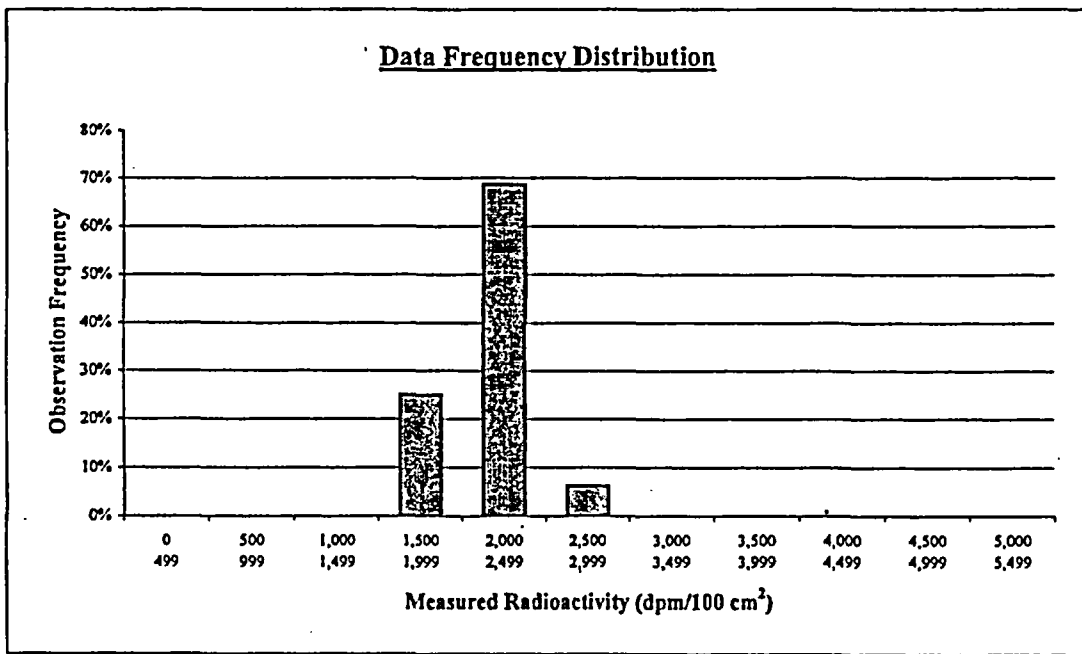
Survey Unit ID Code: S07019B
 Survey Unit Name: Condensate Demineralizer Building
 19' Elevation – Floor and Lower Walls – Col B and C/2 and 5

Classification: Class 1
 Size (m²): 138

Measurement Data Statistical Evaluation

<u>Statistical Comparisons</u>				<u>Statistical Quantities</u>	
Test	Calculated Value	Acceptance Criteria	Acceptable?		
Range	1,024	1,278	Pass	Range:	1,024
Median	0.242	0.500	Pass	Median:	2,256
Mean	2,194	6,000	Pass	Mean:	2,194
Std Dev	256	1,500	Pass	Std Dev:	256
				Minimum:	1,646
				Maximum:	2,670
				DCGL:	7,500

All data less than DCGL; Sign statistical test not required.



<u>Plot Parameters</u>		<u>Number of Observations</u>				<u>Observation Frequency</u>
		Interval	High End	Low End	Observations	Frequency
# of measurements:	32	1	499	0	0	0%
# of intervals:	11	2	999	500	0	0%
Interval increment:	500	3	1,499	1,000	0	0%
Minimum:	0	4	1,999	1,500	8	25%
Maximum:	5,499	5	2,499	2,000	22	69%
		6	2,999	2,500	2	6%
		7	3,499	3,000	0	0%
		8	3,999	3,500	0	0%
		9	4,499	4,000	0	0%
		10	4,999	4,500	0	0%
		11	5,499	5,000	0	0%
		Total:			32	100%

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019B **Classification:** Class 1
Survey Unit Name: Condensate Demineralizer Building **Size (m²):** 138
19' Elevation – Floor and Lower Walls – Col B and C/2 and 5

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta **Scan Coverage (%):** 100
Measurement Units: dpm/100cm² **Investigation Level:** 7,500
Minimum Value: 1,380 **Maximum Value:** 4,821

Measurement Type: Removable Beta **Number of Measurements:** 32
Measurement Units: dpm/100cm² **Investigation Level:** 750
Minimum Value: 49 **Maximum Value:** 92

Discussion of Anomalous Measurement Data

Investigation Summary

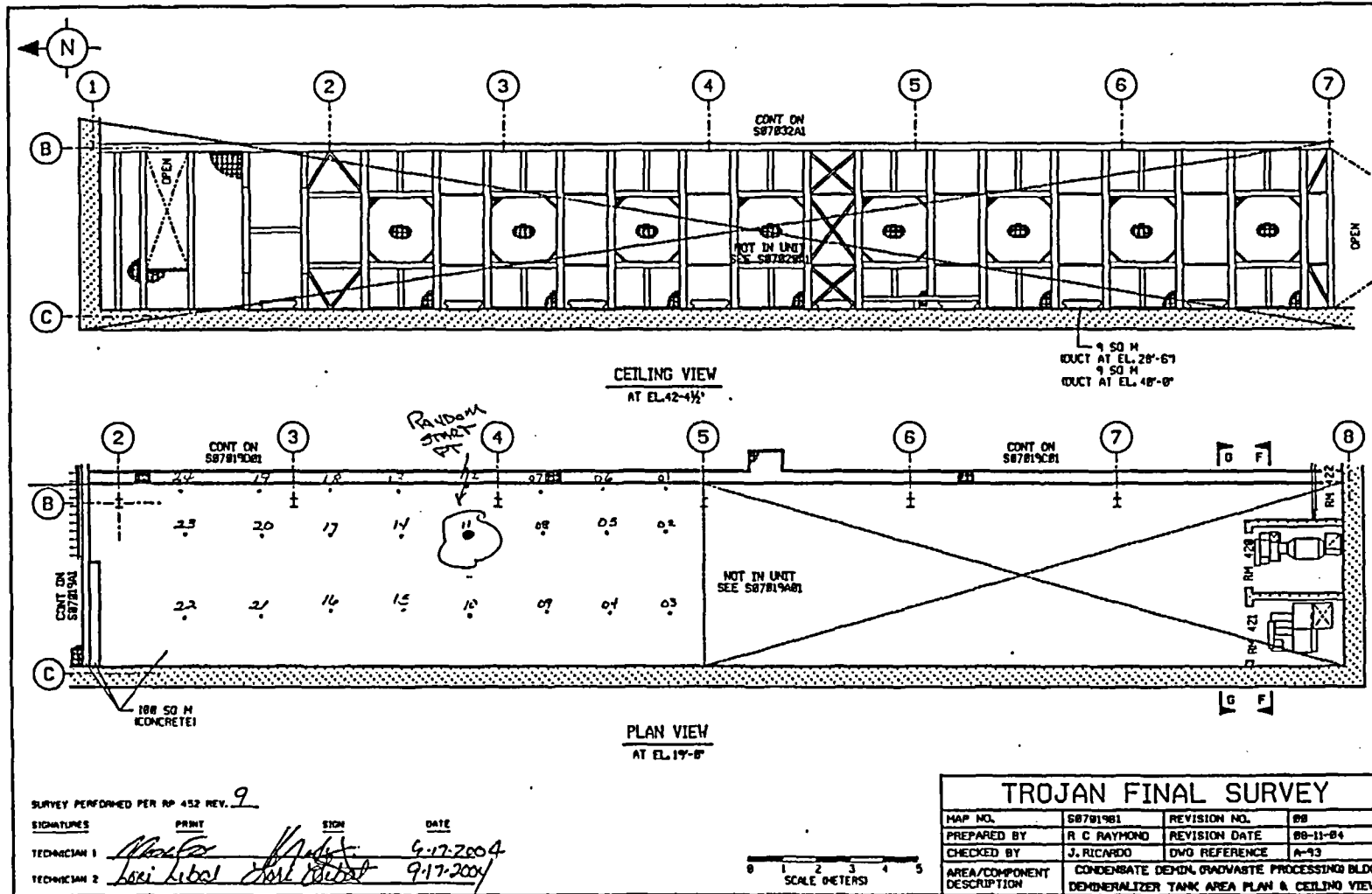
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019B
 Survey Unit Name: Condensate Demineralizer Building 19' Elevation
 Floor and Lower Walls - Col B and C/2 and 5

Classification: Class 1
 Size (m²): 138

Static Measurement Locations Map



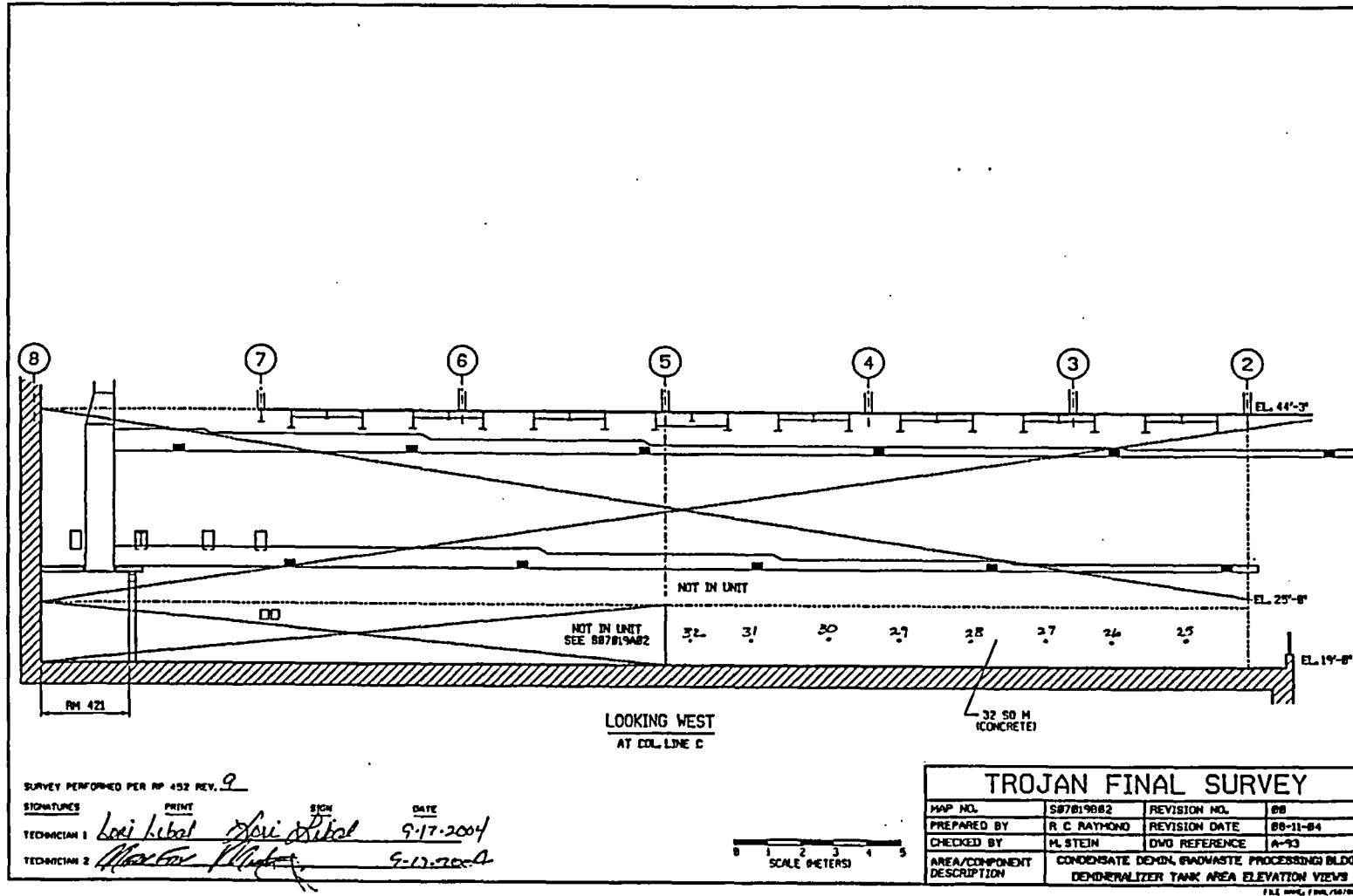
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019B

Survey Unit Name: Condensate Demineralizer Building 19' Elevation
 Floor and Lower Walls - Col B and C/2 and 5

Classification: Class 1
 Size (m²): 138

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 9

SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	Lori Lebat	<i>Lori Lebat</i>	9-17-2004
TECHNICIAN 2	Max Eric Kluge	<i>Max Eric Kluge</i>	9-17-2004

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019C

Classification: Class 1

Survey Unit Name: Condensate Demineralizer Building

Size (m²): 175

19' Elevation - Floor and Lower Walls - Col A and B/5 and 8

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	31	DPM/100 CM ²	7.500e+003	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 8.527e+002
 Maximum Value : 1.935e+003
 Range : 1.082e+003
 Median : 1.594e+003
 Std. Deviation : 2.866e+002
 Mean : 1.541e+003
 95% UCL : 1.628e+003

Measurement Values

Location	Value	Location	Value
000001	1.882e+003	000018	9.642e+002
000002	1.935e+003	000019	1.581e+003
000003	1.561e+003	000020	9.707e+002
000004	1.856e+003	000021	8.527e+002
000005	1.679e+003	000022	1.705e+003
000006	1.509e+003	000023	1.653e+003
000007	1.705e+003	000024	9.117e+002
000008	1.732e+003	000025	1.581e+003
000009	1.574e+003	000026	1.555e+003
000010	1.679e+003	000027	1.594e+003
000011	1.850e+003	000028	1.397e+003
000012	1.725e+003	000029	1.384e+003
000013	1.692e+003	000030	1.666e+003
000014	1.751e+003	000031	1.331e+003
000015	1.738e+003		
000016	1.476e+003		
000017	1.272e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019C

Classification: Class 1

Survey Unit Name: Condensate Demineralizer Building

Size (m²): 175

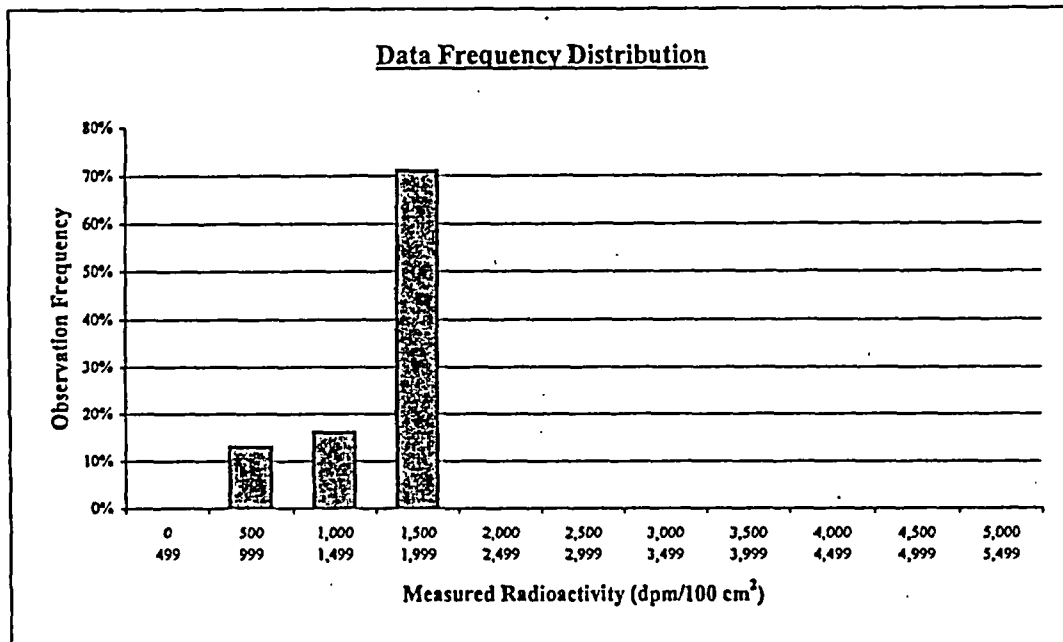
19' Elevation – Floor and Lower Walls – Col A and B/5 and 8

Data Quality Values

Statistical Comparisons			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	1,082	1,433	Pass
Median	0.186	0.500	Pass
Mean	1,541	6,000	Pass
Std Dev	287	1,500	Pass

All data less than DCGL; Sign statistical test not required.

Statistical Quantities	
Range:	1,082
Median:	1,594
Mean:	1,541
Std Dev:	287
Minimum:	853
Maximum:	1,935
DCGL:	7,500



Plot Parameters	
# of measurements:	31
# of intervals:	11
Interval increment:	500
Minimum:	0
Maximum:	5,499

Comment:
None.

Interval	High End	Low End	Number of Observations	Observation Frequency
1	499	0	0	0%
2	999	500	4	13%
3	1,499	1,000	5	16%
4	1,999	1,500	22	71%
5	2,499	2,000	0	0%
6	2,999	2,500	0	0%
7	3,499	3,000	0	0%
8	3,999	3,500	0	0%
9	4,499	4,000	0	0%
10	4,999	4,500	0	0%
11	5,499	5,000	0	0%
Total:			31	100%

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019C **Classification:** Class 1
Survey Unit Name: Condensate Demineralizer Building **Size (m²):** 175
19' Elevation – Floor and Lower Walls – Col A and B/5 and 8

Measurement Data Statistical Evaluation

Measurement Type: Surface Scanning Beta **Scan Coverage (%):** 100
Measurement Units: dpm/100cm² **Investigation Level:** 7,500
Minimum Value: 961 **Maximum Value:** 6,828

Measurement Type: Removable Beta **Number of Measurements:** 30
Measurement Units: dpm/100cm² **Investigation Level:** 750
Minimum Value: 46 **Maximum Value:** 86

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: One scan measurement exceeded the investigation level.

Elevated Measurement Comparison (EMC):

DCGL (Investigation Level):	7,500
Measurement Units:	dpm/100cm ²
Maximum Value:	8,146
Size of Area Exceeding DCGL (m²):	N/A
Size of Survey Unit (m²):	N/A
Survey Unit Area >DCGL (%):	N/A
EMC Value:	N/A

Action Taken: Corrected measurement values for scan location per guidance in memo FS-018-03; used similar method for elevated scan measurement obtained with a 43-68 gas flow proportional detector. Replaced original scan results in SDMS with this result, which corrected to less than the investigation level.

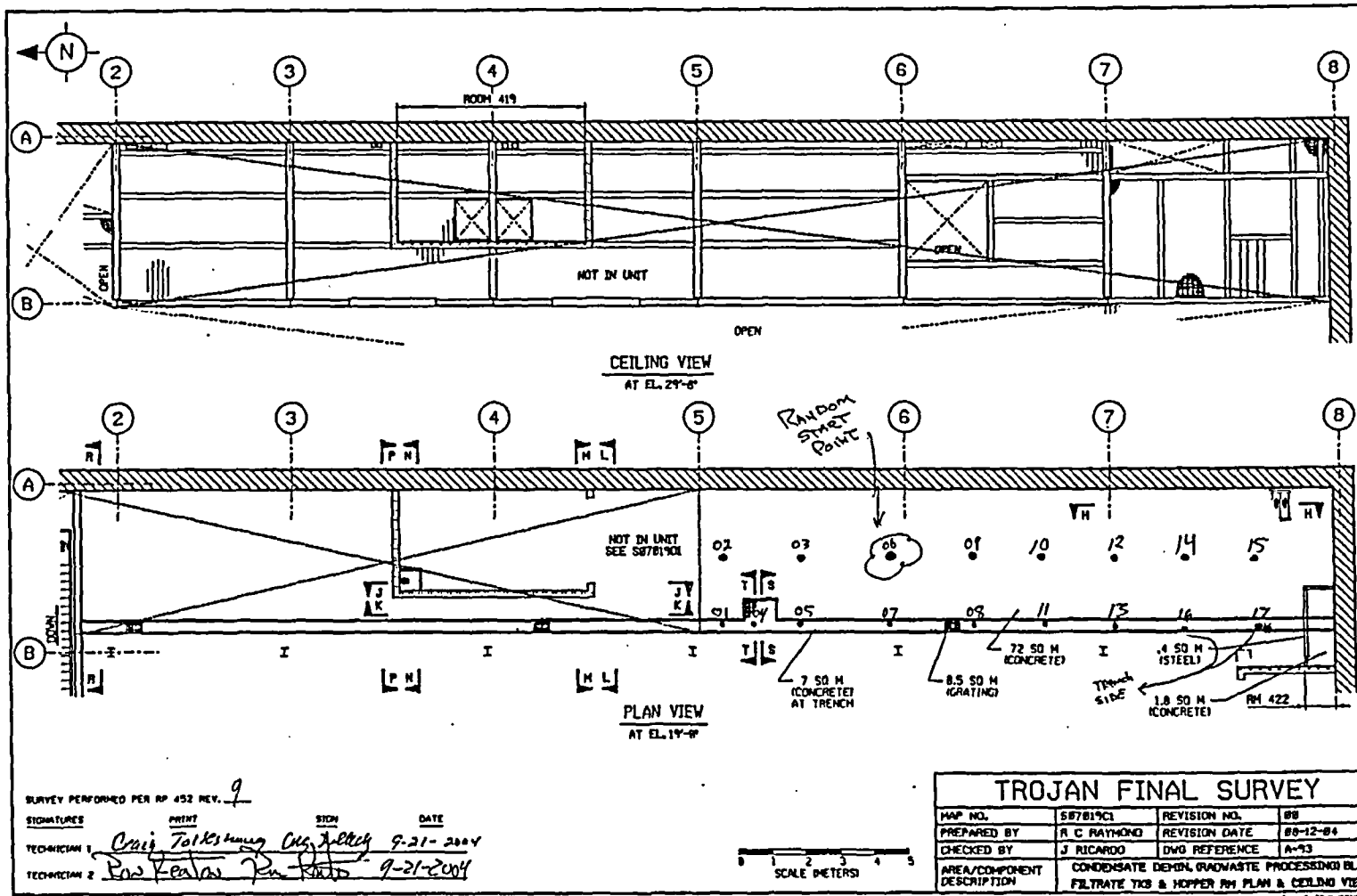
Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

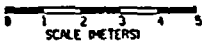
Survey Unit ID Code: S07019C
 Survey Unit Name: Condensate Demineralizer Building 19' Elevation
 Floor and Lower Walls - Col A and B/5 and 8

Classification: Class 1
 Size (m²): 175

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 9
 SIGNATURES: *Craig Tallent* (PRINT), *Chris Kelly* (SIGN), DATE: 9-21-2004
 TECHNICIAN 1: *Craig Tallent*
 TECHNICIAN 2: *Paul Fenton*



TROJAN FINAL SURVEY			
MAP NO.	S07019C1	REVISION NO.	08
PREPARED BY	R C RATHBON	REVISION DATE	08-12-04
CHECKED BY	J RICARDO	DWG REFERENCE	A-93
AREA/COMPONENT DESCRIPTION	CONDENSATE DEMON. RADWASTE PROCESSING BLDG FILTRATE TKS & HOPPER RM PLAN & CEILING VIEWS		

FINAL SURVEY RESULTS SUMMARY

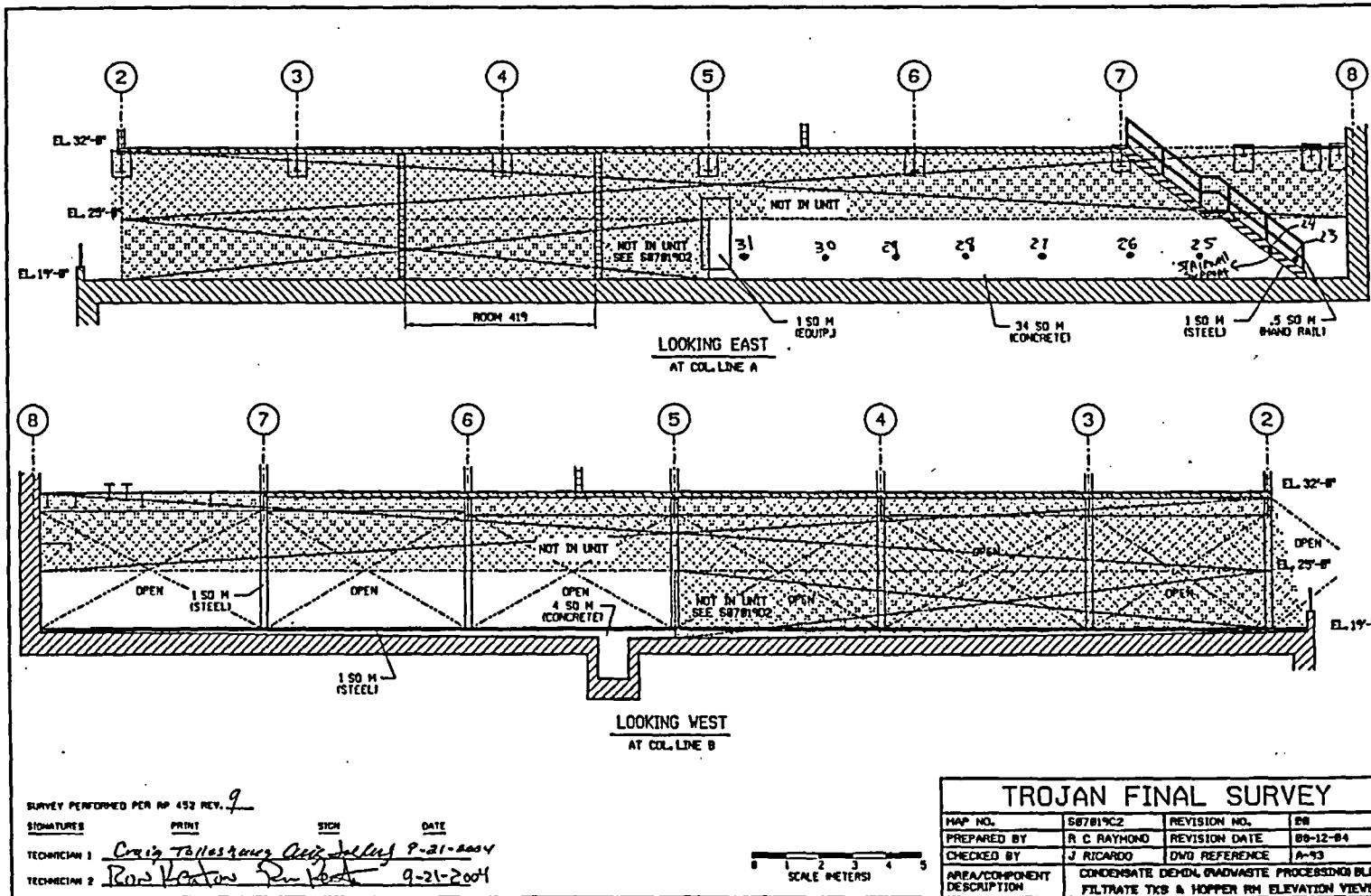
Survey Unit ID Code: S07019C

Survey Unit Name: Condensate Demineralizer Building 19' Elevation
Floor and Lower Walls - Col A and B/5 and 8

Classification: Class 1

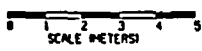
Size (m²): 175

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 9

SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	Craig Talles	<i>[Signature]</i>	9-21-2004
TECHNICIAN 2	Paul Koster	<i>[Signature]</i>	9-21-2004



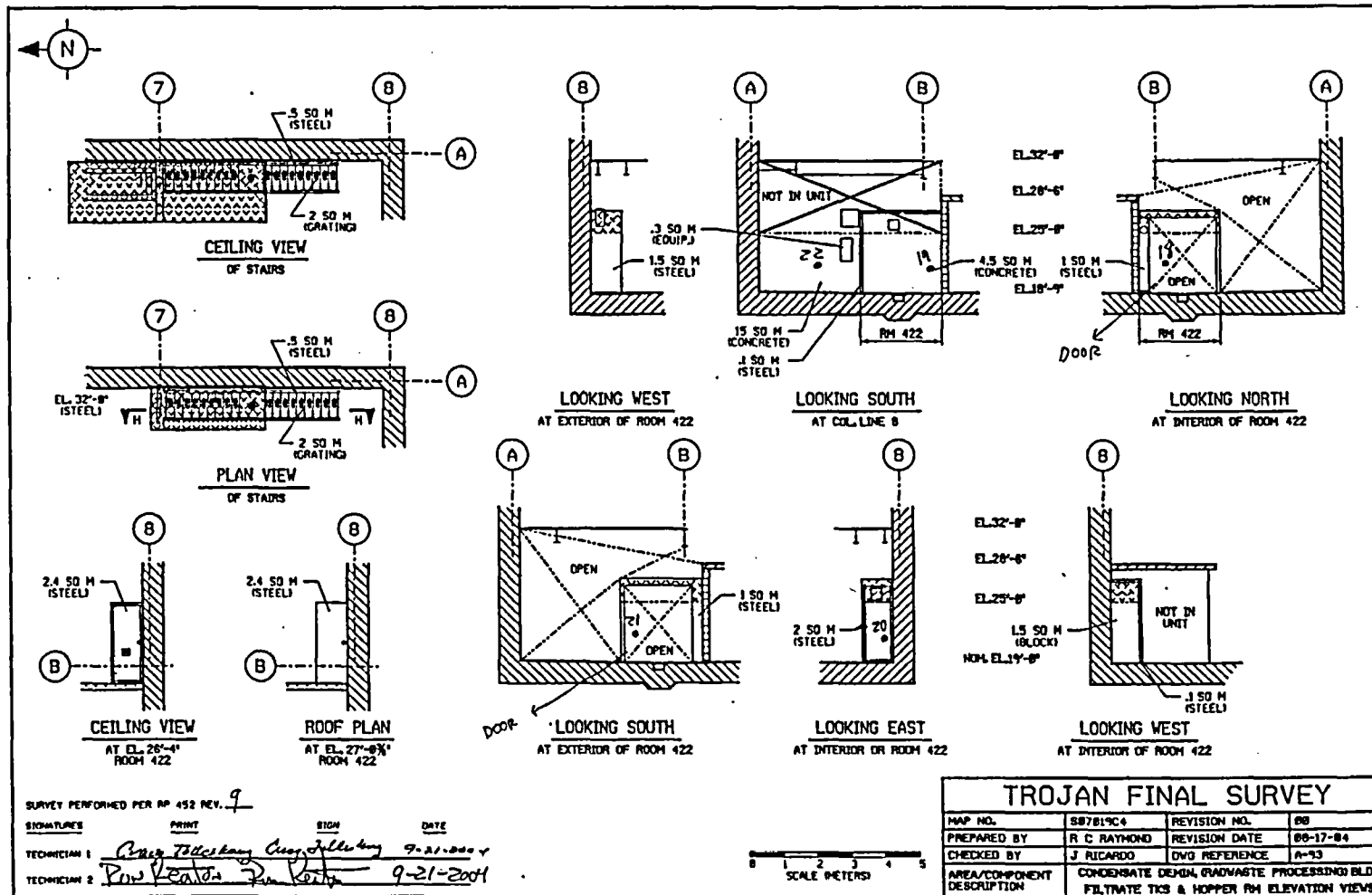
TROJAN FINAL SURVEY			
MAP NO.	S87819C2	REVISION NO.	08
PREPARED BY	R. C. RAYMOND	REVISION DATE	08-12-04
CHECKED BY	J. RICARDO	DWG. REFERENCE	A-93
AREA/COMPONENT DESCRIPTION	CONDENSATE DEMIN. WASTE PROCESSING BLDG FILTRATE TKS & HOPPER RM ELEVATION VIEWS		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019C
 Survey Unit Name: Condensate Demineralizer Building 19' Elevation
 Floor and Lower Walls – Col A and B/5 and 8

Classification: Class 1
 Size (m²): 175

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 9

SIGNATURE	PRINT	SIGN	DATE
<i>[Signature]</i>	Chris J. Jellison	<i>[Signature]</i>	9-21-2004
<i>[Signature]</i>	Paul Keaton	<i>[Signature]</i>	9-21-2004

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019D Classification: Class 1
 Survey Unit Name: Condensate Demineralizer Building Size (m²): 158
 19' Elevation – Floor and Lower Walls – Col A and B/2 and 5

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	32	DPM/100 CM ²	7.500e+003	3.100e+001	-

Statistical Quantities

Measurement Name:
 Minimum Value : 1.301e+003
 Maximum Value : 1.486e+004
 Range : 1.356e+004
 Median : 1.763e+003
 Std. Deviation : 2.329e+003
 Mean : 2.263e+003
 95% UCL : 2.961e+003

Measurement Values

Location	Value	Location	Value
000001	2.251e+003	000018	1.594e+003
000002	2.283e+003	000019	1.425e+003
000003	2.797e+003	000020	1.750e+003
000004	1.548e+003	000021	2.270e+003
000005	1.769e+003	000022	1.932e+003
000006	1.321e+003	000023	2.023e+003
000007	1.535e+003	000024	1.971e+003
000008	1.698e+003	000025	2.303e+003
000009	1.470e+003	000026	1.626e+003
000010	1.308e+003	000027	1.646e+003
000011	1.646e+003	000028	1.756e+003
000012	2.537e+003	000029	2.355e+003
000013	1.486e+004	000030	2.244e+003
000014	1.678e+003	000031	1.874e+003
000015	1.997e+003	000032	1.301e+003
000016	1.665e+003		
000017	1.991e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019D

Classification: Class 1

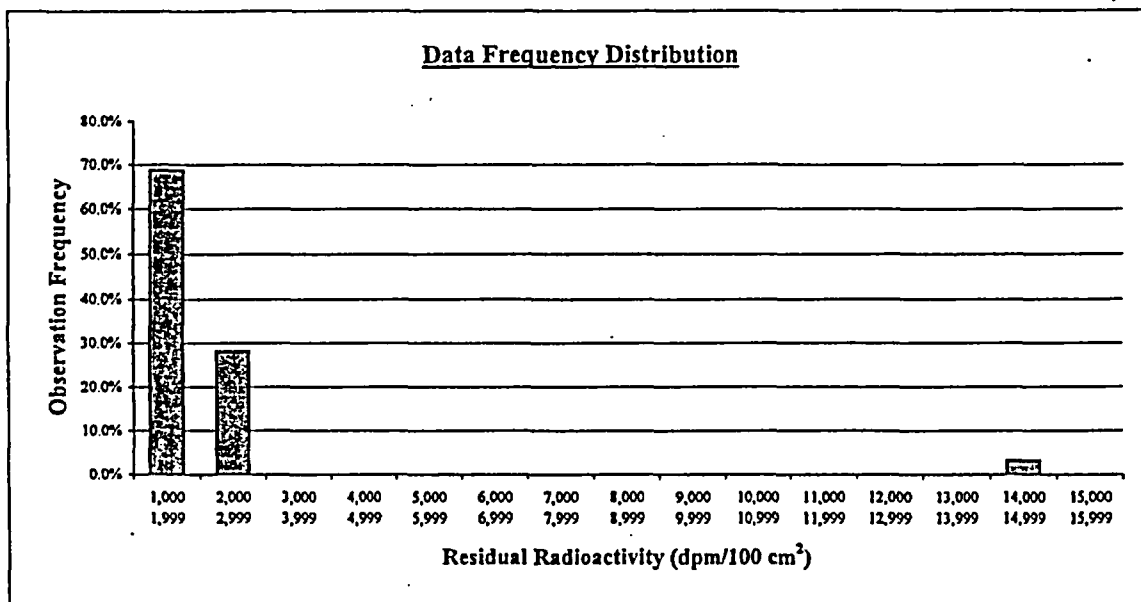
Survey Unit Name: Condensate Demineralizer Building

Size (m²): 158

19' Elevation – Floor and Lower Walls – Col A and B/2 and 5

Measurement Data Statistical Evaluation

Statistical Comparisons				Statistical Quantities	
Test	Calculated Value	Acceptance Criteria	Acceptable?		
Range	13,559	13,739	Pass (see comment)	Range:	13,559
Median	0.215	0.500	Pass	Median:	1,763
Mean	2,263	7,500	Pass	Mean:	2,263
Std Dev	2,329	2,400	Pass (see comment)	Std Dev:	2,329
S+	31	21 Data Set passes Sign statistical test		Minimum:	1,301
				Maximum:	14,860
				DCGL:	7,500



Plot Parameters		Interval	High End	Low End	Number of Observations	Observation Frequency
# of measurements:	32	1	1,999	1,000	22	68.8%
# of intervals:	15	2	2,999	2,000	9	28.1%
Interval increment:	1,000	3	3,999	3,000	0	0.0%
Minimum:	1,000	4	4,999	4,000	0	0.0%
Maximum:	15,999	5	5,999	5,000	0	0.0%
		6	6,999	6,000	0	0.0%
		7	7,999	7,000	0	0.0%
		8	8,999	8,000	0	0.0%
		9	9,999	9,000	0	0.0%
		10	10,999	10,000	0	0.0%
		11	11,999	11,000	0	0.0%
		12	12,999	12,000	0	0.0%
		13	13,999	13,000	0	0.0%
		14	14,999	14,000	1	3.1%
		15	15,999	15,000	0	0.0%
				Total:	32	100%

Comment:
 A single measurement value exceeds DCGL, resulting a large standard deviation for the data set. To successfully perform final data processing through the sign statistical test requires changing the SDMS default S.D. test criterion from 0.2 to 0.32 times the DCGL. Also, need to change range test criterion to 5.9 times the standard deviation.
 All measurement data are valid & accepted.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019D **Classification:** Class 1
Survey Unit Name: Condensate Demineralizer Building **Size (m²):** 158
19' Elevation – Floor and Lower Walls – Col A and B/2 and 5

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta **Scan Coverage (%):** 100
Measurement Units: dpm/100cm² **Investigation Level:** 7,500
Minimum Value: 1,569 **Maximum Value:** 15,950

Measurement Type: Removable Beta **Number of Measurements:** 32
Measurement Units: dpm/100cm² **Investigation Level:** 750
Minimum Value: 40 **Maximum Value:** 98

Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Two scan measurements and one static measurement exceeded the investigation level.

Elevated Measurement Comparison (EMC):

DCGL (Investigation Level):	7,500
Measurement Units:	dpm/100cm ²
Maximum Value:	15,950
Size of Area Exceeding DCGL (m²):	0.08
Size of Survey Unit (m²):	158
Survey Unit Area >DCGL (%):	0.05
EMC Value:	36,750

Action Taken: Applied EMC data processing to elevated scan and static measurement results.

Basis for Action Taken: Sum of small, localized areas of elevated radioactivity identified during static surveys is less than 1 m² and allowed the EMC DCGL of 4.9 x DCGL to be applied.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019D

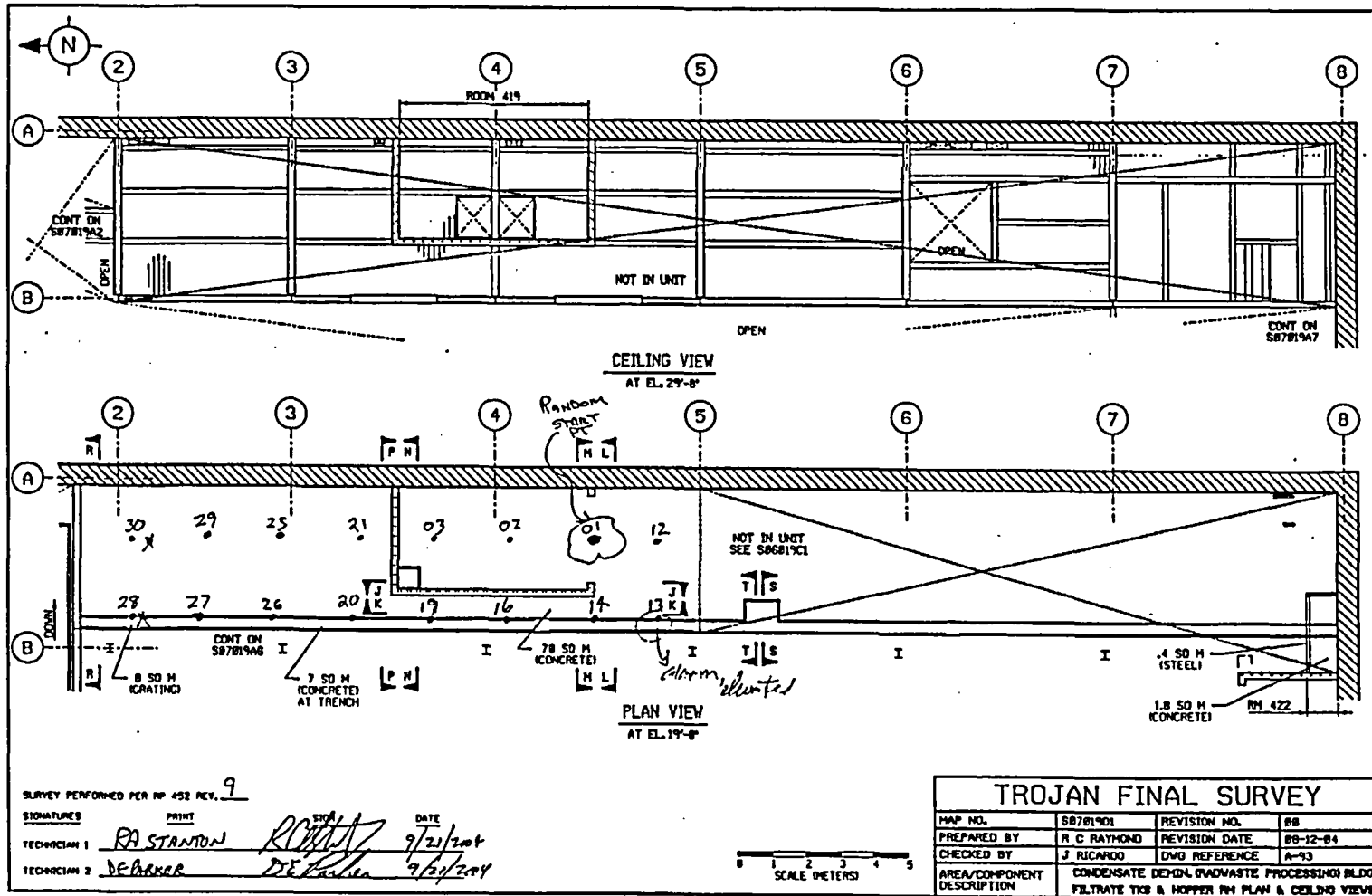
Survey Unit Name: Condensate Demineralizer Building

19' Elevation - Floor and Lower Walls - Col A and B/2 and 5

Classification: Class 1

Size (m²): 158

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019D

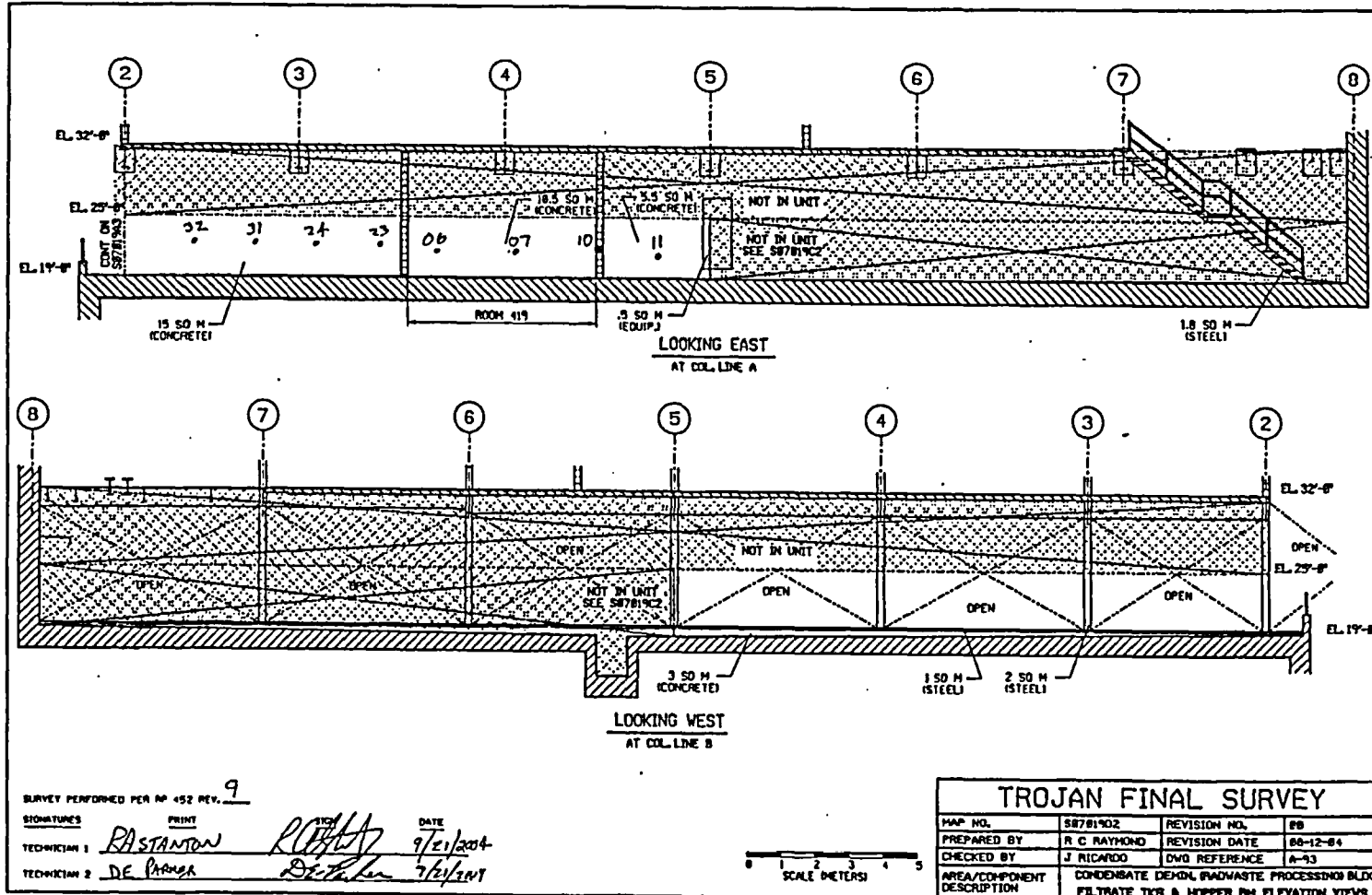
Survey Unit Name: Condensate Demineralizer Building

19' Elevation - Floor and Lower Walls - Col A and B/2 and 5

Classification: Class 1

Size (m²): 158

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019D

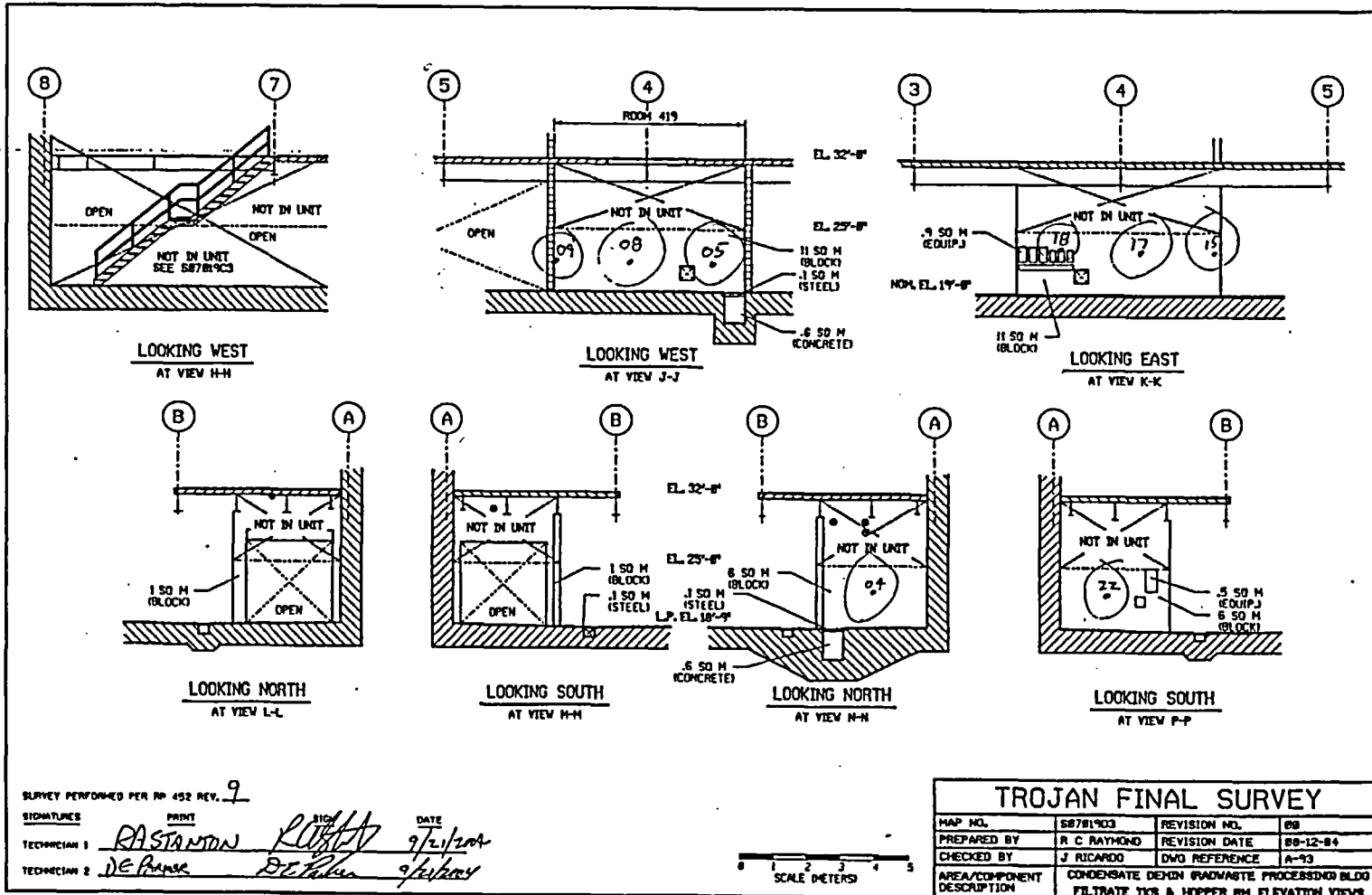
Survey Unit Name: Condensate Demineralizer Building

19' Elevation – Floor and Lower Walls – Col A and B/2 and 5

Classification: Class 1

Size (m²): 158

Static Measurement Locations Map



SURVEY PERFORMED PER NO. 452 REV. 9
 SIGNATURES: PRINT SIGN DATE
 TECHNICIAN 1: RASTAMON ROBERT 9/21/2004
 TECHNICIAN 2: DE RANG DE FALAN 9/21/2004

TROJAN FINAL SURVEY			
MAP NO.	S07019D3	REVISION NO.	00
PREPARED BY	R C RAYMOND	REVISION DATE	08-12-04
CHECKED BY	J RICARDO	DWG REFERENCE	A-93
AREA/COMPONENT DESCRIPTION	CONDENSATE DEMINERIALIZED PROCESSING BLDG FILTRATE TKS & HOPPER RM ELEVATION VIEWS		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019E
 Survey Unit Name: Condensate Demineralizer Building
 19' Elevation - Backwash Tank Area

Classification: Class 2
 Size (m²): 585

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	7.500e+003	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 5.226e+002
 Maximum Value : 1.222e+003
 Range : 6.994e+002
 Median : 9.115e+002
 Std. Deviation : 1.962e+002
 Mean : 8.668e+002
 95% UCL : 9.276e+002

Measurement Values

Location	Value	Location	Value
000001	5.501e+002	000018	9.076e+002
000002	6.168e+002	000019	1.014e+003
000003	7.151e+002	000020	9.665e+002
000004	7.190e+002	000021	1.018e+003
000005	7.072e+002	000022	1.175e+003
000006	6.876e+002	000023	1.155e+003
000007	7.190e+002	000024	9.587e+002
000008	5.226e+002	000025	9.822e+002
000009	6.797e+002	000026	1.222e+003
000010	7.504e+002	000027	9.154e+002
000011	6.365e+002	000028	8.015e+002
000012	1.002e+003	000029	7.622e+002
000013	1.116e+003	000030	6.994e+002
000014	1.116e+003		
000015	9.194e+002		
000016	9.194e+002		
000017	1.049e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019E
 Survey Unit Name: Condensate Demineralizer Building
 19' Elevation – Backwash Tank Area

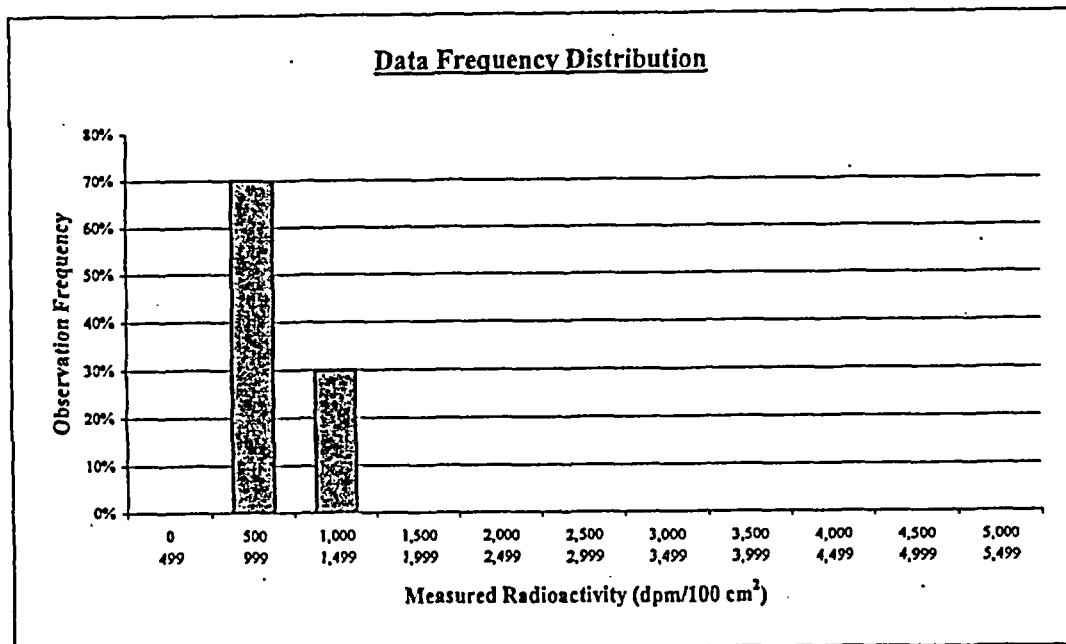
Classification: Class 2
 Size (m²): 585

Measurement Data Statistical Evaluation

Statistical Comparisons			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	699	981	Pass
Median	0.228	0.500	Pass
Mean	867	6,000	Pass
Std Dev	196	1,500	Pass

All data less than DCGL; Sign statistical test not required.

Statistical Quantities	
Range:	699
Median:	912
Mean:	867
Std Dev:	196
Minimum:	523
Maximum:	1,222
DCGL:	7,500



Plot Parameters	
# of measurements:	30
# of intervals:	11
Interval increment:	500
Minimum:	0
Maximum:	5,499

Comment:
None.

Interval	High End	Low End	Number of Observations	Observation Frequency
1	499	0	0	0%
2	999	500	21	70%
3	1,499	1,000	9	30%
4	1,999	1,500	0	0%
5	2,499	2,000	0	0%
6	2,999	2,500	0	0%
7	3,499	3,000	0	0%
8	3,999	3,500	0	0%
9	4,499	4,000	0	0%
10	4,999	4,500	0	0%
11	5,499	5,000	0	0%
Total:			30	100%

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019E
Survey Unit Name: Condensate Demineralizer Building
19' Elevation – Backwash Tank Area

Classification: Class 2
Size (m²): 585

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 807

Scan Coverage (%): 15
Investigation Level: 7,500
Maximum Value: 1,905

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 42

Number of Measurements: 30
Investigation Level: 750
Maximum Value: 86

Discussion of Anomalous Measurement Data

Investigation Summary

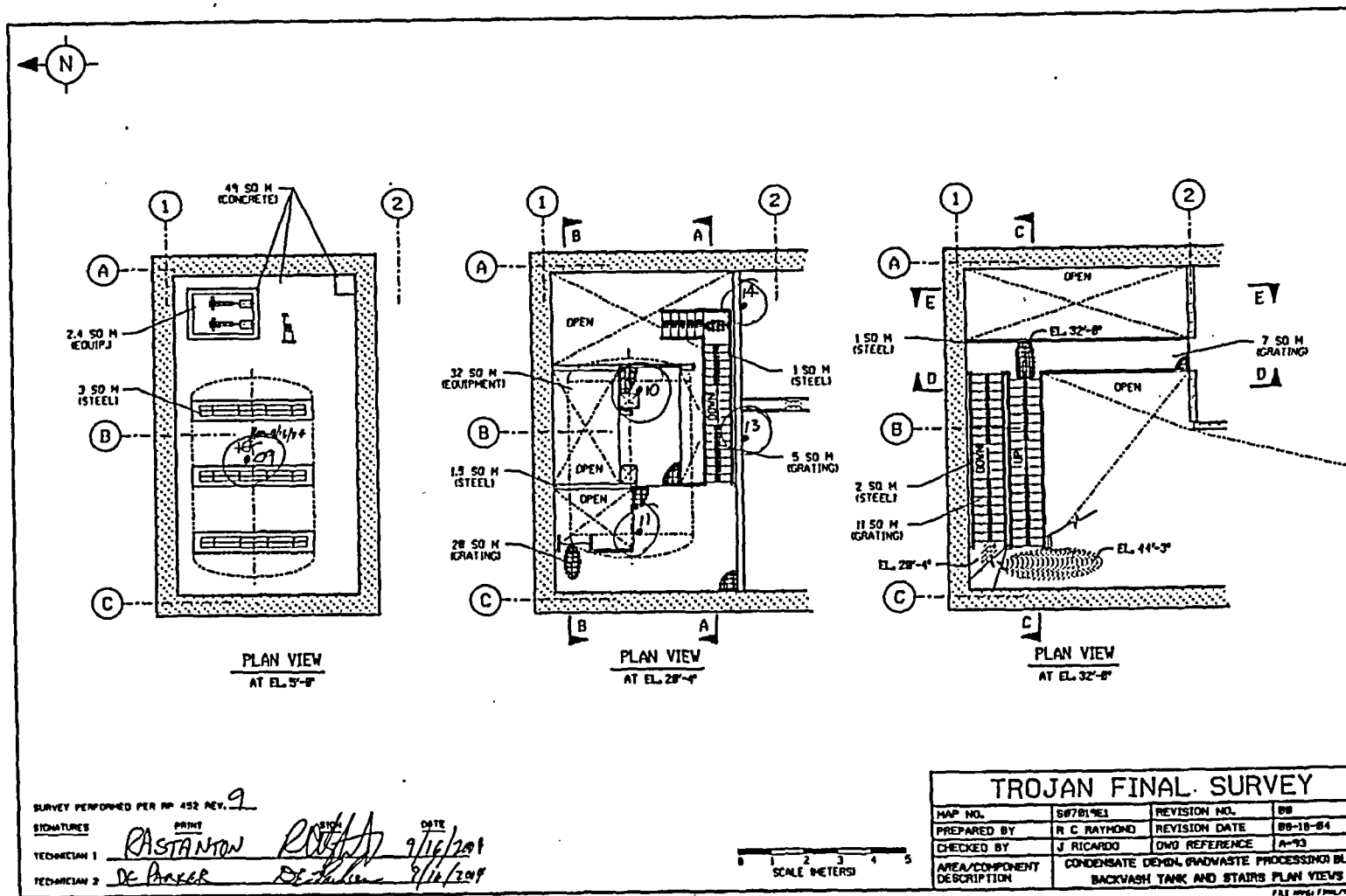
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019E
 Survey Unit Name: Condensate Demineralizer Building
 19' Elevation - Backwash Tank Area

Classification: Class 2
 Size (m²): 585

Static Measurement Locations Map

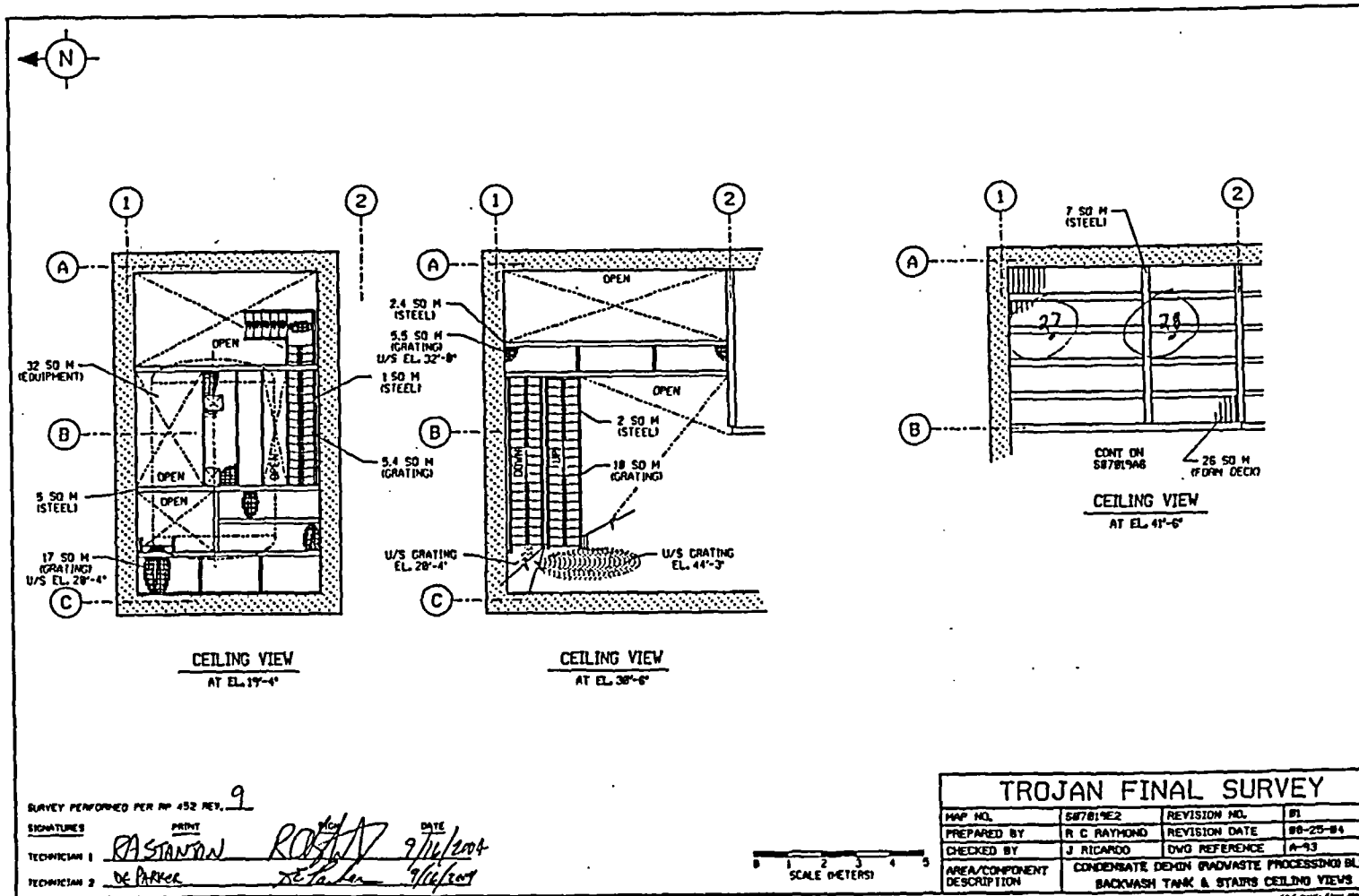


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019E
 Survey Unit Name: Condensate Demineralizer Building
 19' Elevation - Backwash Tank Area

Classification: Class 2
 Size (m²): 585

Static Measurement Locations Map

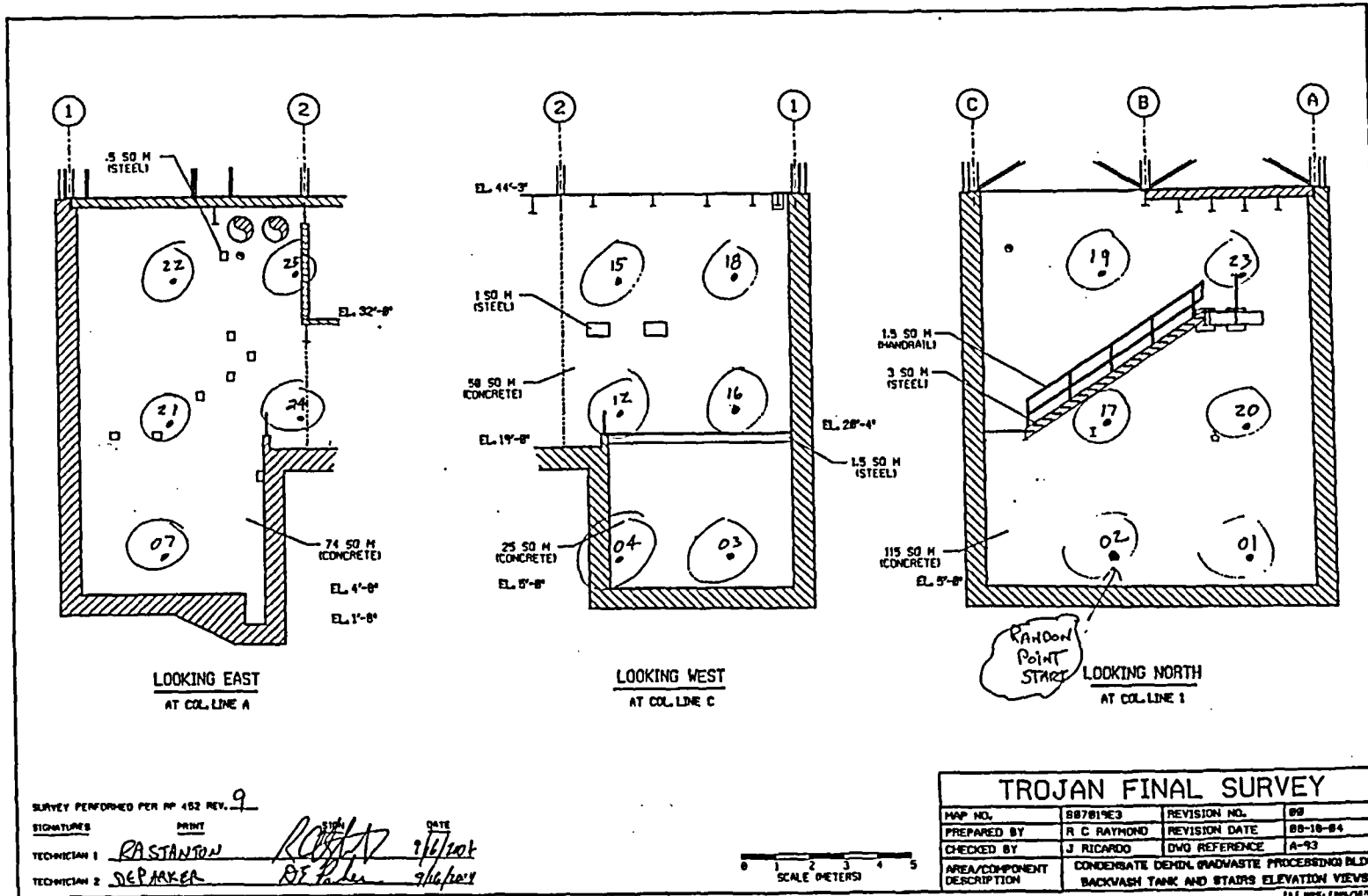


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019E
 Survey Unit Name: Condensate Demineralizer Building
 19' Elevation - Backwash Tank Area

Classification: Class 2
 Size (m²): 585

Static Measurement Locations Map

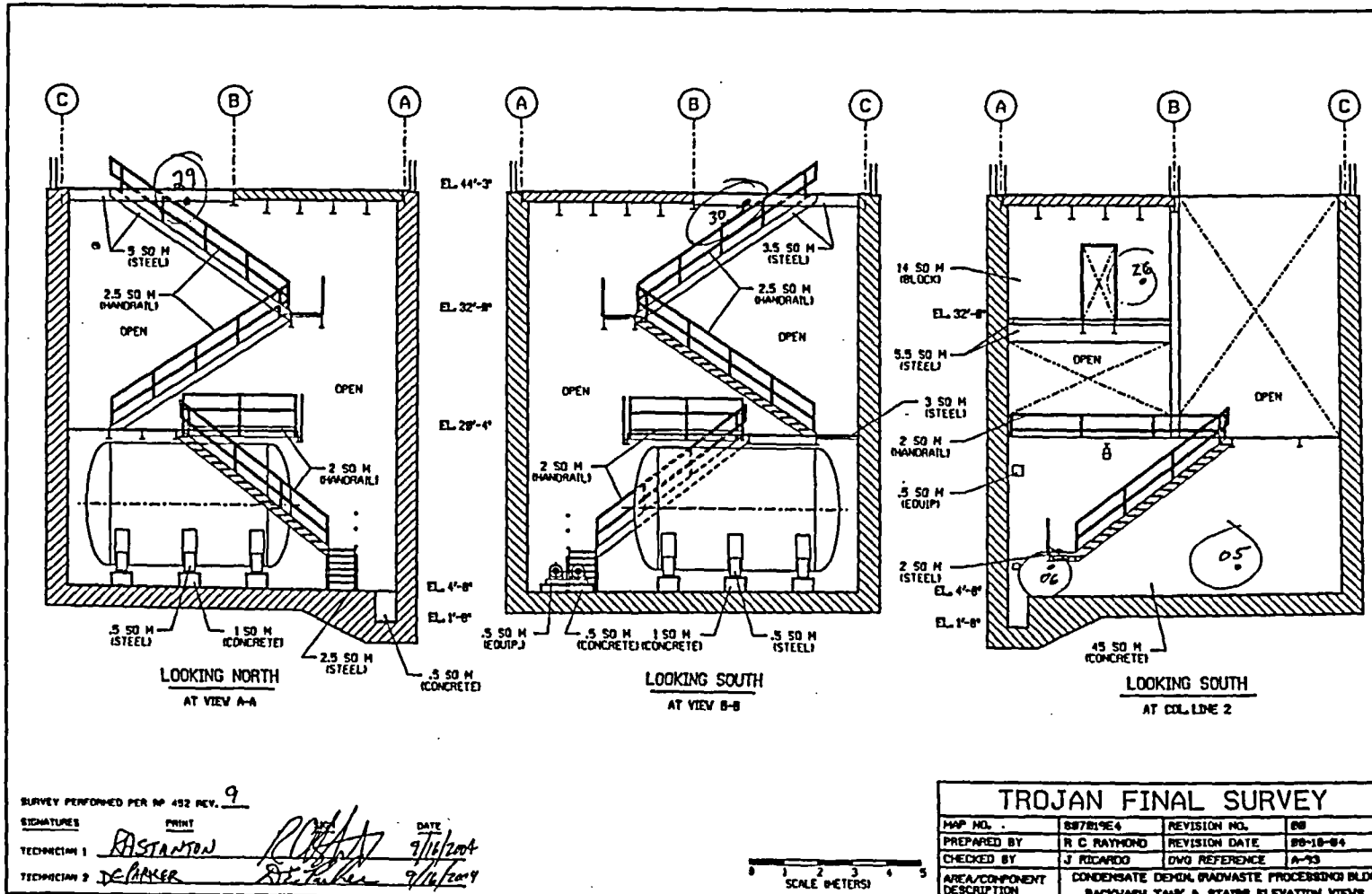


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019E
 Survey Unit Name: Condensate Demineralizer Building
 19' Elevation - Backwash Tank Area

Classification: Class 2
 Size (m²): 585

Static Measurement Locations Map

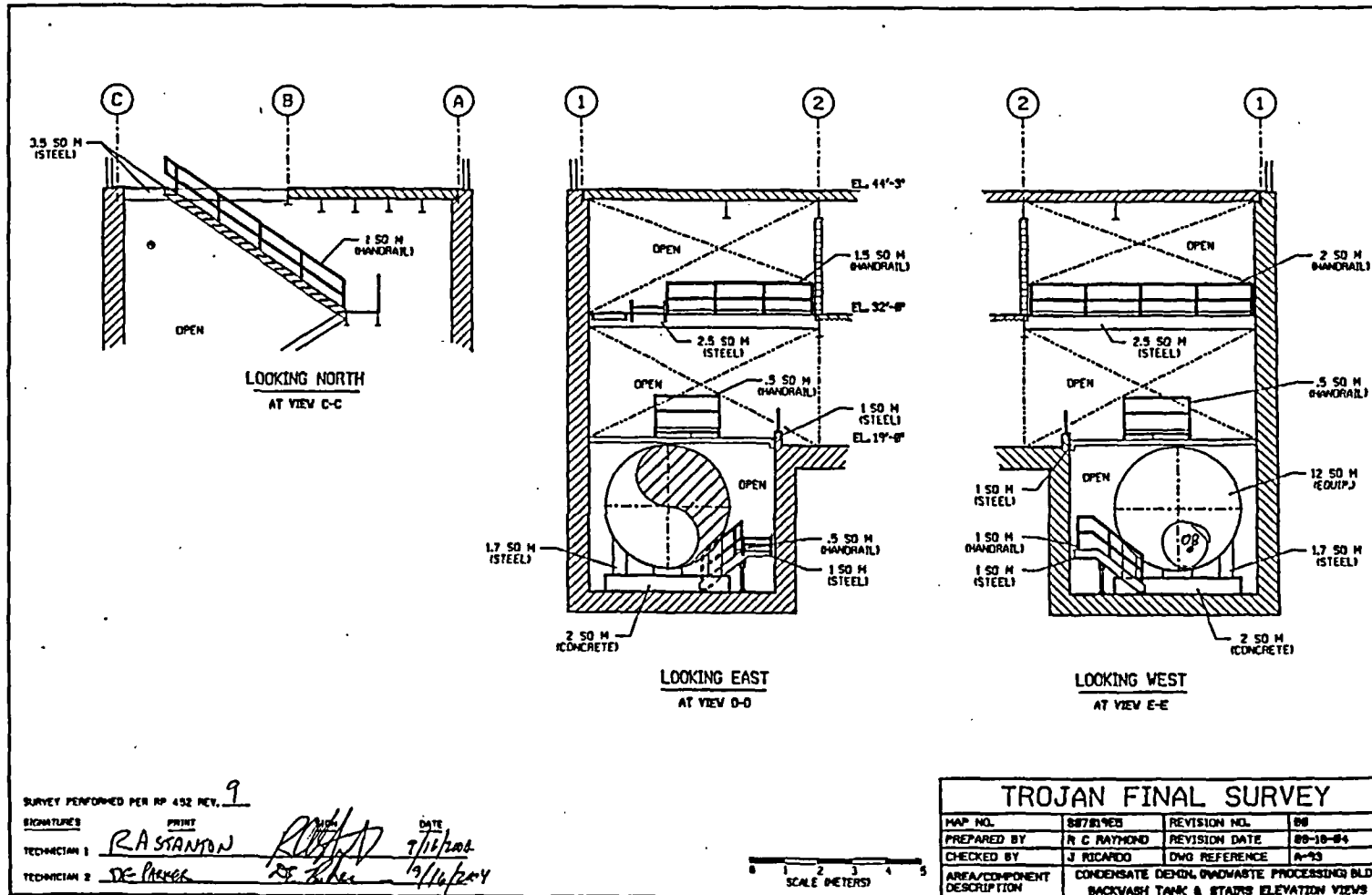


FINAL SURVEY RESULTS SUMMARY

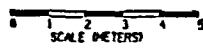
Survey Unit ID Code: S07019E
 Survey Unit Name: Condensate Demineralizer Building
 19' Elevation - Backwash Tank Area

Classification: Class 2
 Size (m²): 585

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 9
 SIGNATURES: RA STANTON (TECHNICIAN 1), DE PENCE (TECHNICIAN 2)
 DATE: 7/16/04



TROJAN FINAL SURVEY			
MAP NO.	S07019E3	REVISION NO.	00
PREPARED BY	R C RAYMOND	REVISION DATE	08-10-04
CHECKED BY	J RICARDO	DWG REFERENCE	A-23
AREA/COMPONENT DESCRIPTION	CONDENSATE DEMIN. WASTEWATER PROCESSING BLDG BACKWASH TANK & STAIRS ELEVATION VIEWS		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07025A
Survey Unit Name: Condensate Demineralizer Building
 19' Elevation - Upper Walls and Ceiling

Classification: Class 2
Size (m²): 653

Data Quality Values

Type 1 Error : 5.000e-002 **Type 2 Error** : 5.000e-002
Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	34	DPM/100 CM ²	7.500e+003	-	-

Statistical Quantities

Measurement Name:
Minimum Value : 8.919e+002
Maximum Value : 1.336e+003
Range : 4.441e+002
Median : 1.155e+003
Std. Deviation : 9.589e+001
Mean : 1.154e+003
95% UCL : 1.182e+003

Measurement Values

Location	Value	Location	Value
000001	1.112e+003	000018	1.112e+003
000002	1.061e+003	000019	1.147e+003
000003	8.919e+002	000020	1.065e+003
000004	1.080e+003	000021	1.045e+003
000005	1.065e+003	000022	1.116e+003
000006	1.159e+003	000023	1.080e+003
000007	1.187e+003	000024	1.065e+003
000008	1.214e+003	000025	1.206e+003
000009	1.269e+003	000026	1.187e+003
000010	1.289e+003	000027	1.273e+003
000011	1.253e+003	000028	1.175e+003
000012	1.037e+003	000029	1.336e+003
000013	1.100e+003	000030	1.187e+003
000014	1.151e+003	000031	1.281e+003
000015	1.269e+003	000032	1.187e+003
000016	1.096e+003	000033	1.057e+003
000017	1.222e+003	000034	1.261e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07025A

Classification: Class 2

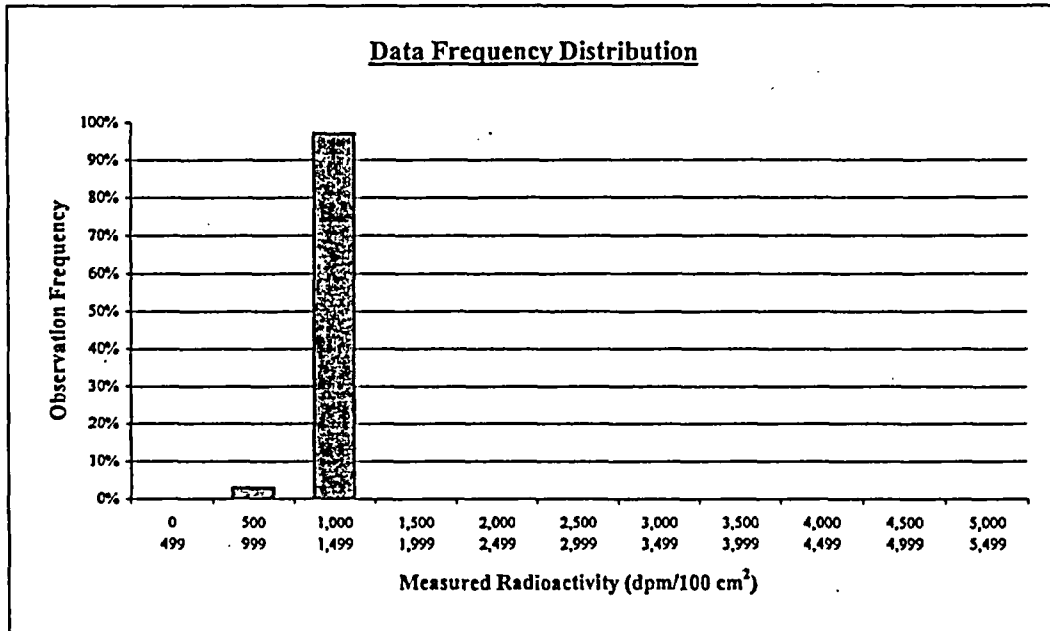
Survey Unit Name: Condensate Demineralizer Building

Size (m²): 653

19' Elevation – Upper Walls and Ceiling

Measurement Data Statistical Evaluation

Statistical Comparisons				Statistical Quantities	
Test	Calculated Value	Acceptance Criteria	Acceptable?	Range:	444
Range	444	479	Pass	Median:	1,155
Median	0.010	0.500	Pass	Mean:	1,154
Mean	1,154	6,000	Pass	Std Dev:	96
Std Dev	96	1,500	Pass	Minimum:	892
				Maximum:	1,336
All data less than DCGL; Sign statistical test not required.				DCGL:	7,500



Plot Parameters		Interval	High End	Low End	Number of Observations	Observation Frequency
# of measurements:	34	1	499	0	0	0%
# of intervals:	11	2	999	500	1	3%
Interval increment:	500	3	1,499	1,000	33	97%
Minimum:	0	4	1,999	1,500	0	0%
Maximum:	5,499	5	2,499	2,000	0	0%
		6	2,999	2,500	0	0%
		7	3,499	3,000	0	0%
		8	3,999	3,500	0	0%
		9	4,499	4,000	0	0%
		10	4,999	4,500	0	0%
		11	5,499	5,000	0	0%
Total:					34	100%

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07025A

Classification: Class 2

Survey Unit Name: Condensate Demineralizer Building

Size (m²): 653

19' Elevation – Upper Walls and Ceiling

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 15

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 884

Maximum Value: 3,095

Measurement Type: Removable Beta

Number of Measurements: 34

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 39

Maximum Value: 89

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

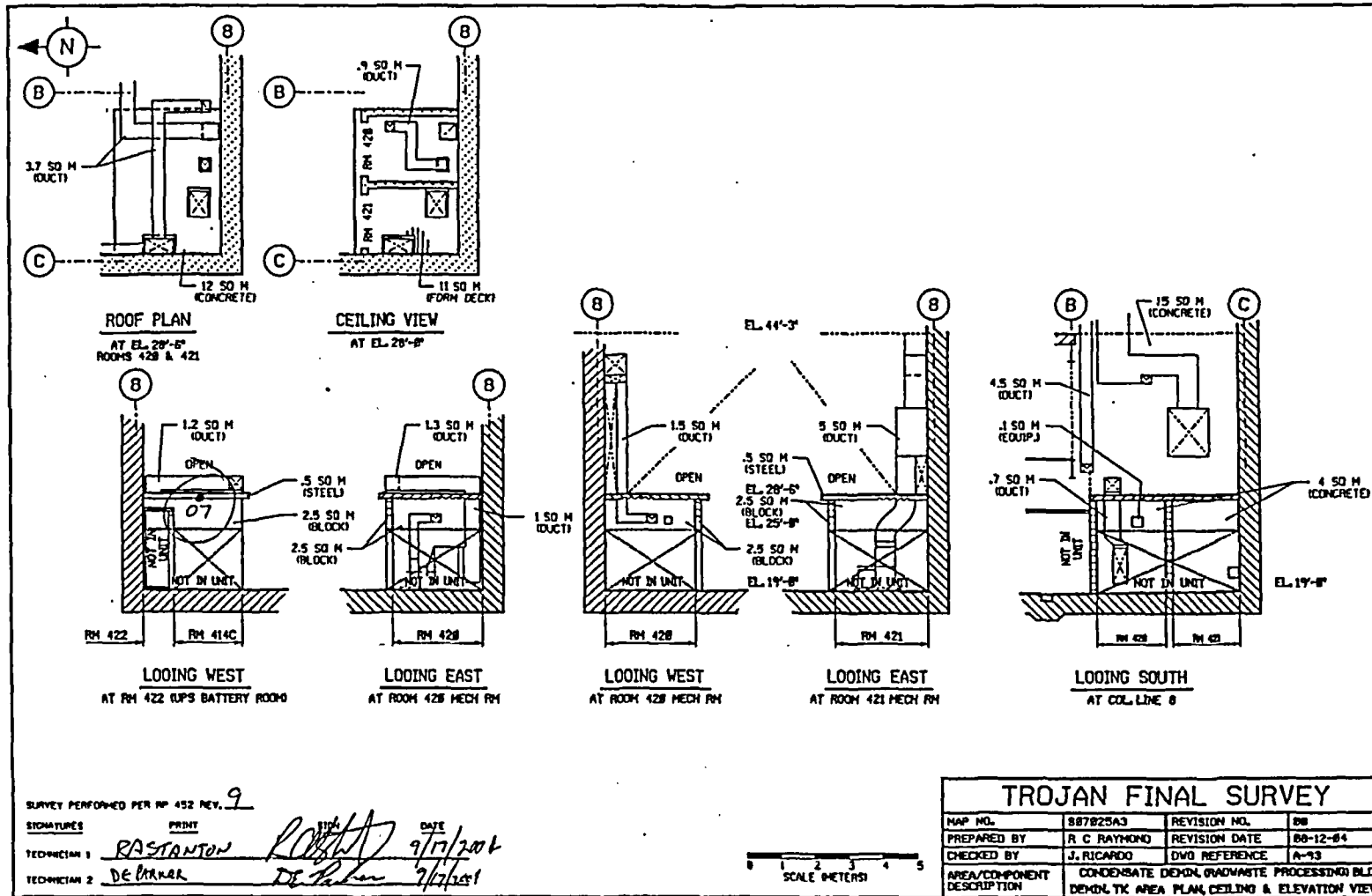
Survey Unit ID Code: S07025A

Survey Unit Name: Condensate Demineralizer Building 19' Elevation - Upper Walls and Ceiling

Classification: Class 2

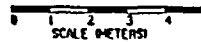
Size (m²): 653

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 9

TECHNICIAN 1: RASTANTON, RASTANTON, 9/17/2004
 TECHNICIAN 2: DELANEY, DELANEY, 7/7/2004



TROJAN FINAL SURVEY			
MAP NO.	887825A3	REVISION NO.	08
PREPARED BY	R. C. RAYMOND	REVISION DATE	88-12-84
CHECKED BY	J. RICARDO	DWG REFERENCE	A-13
AREA/COMPONENT DESCRIPTION	CONDENSATE DEMIN. (RADWASTE PROCESSING) BLDG DEMON. TK. AREA PLAN, CEILING & ELEVATION VIEWS		

FINAL SURVEY RESULTS SUMMARY

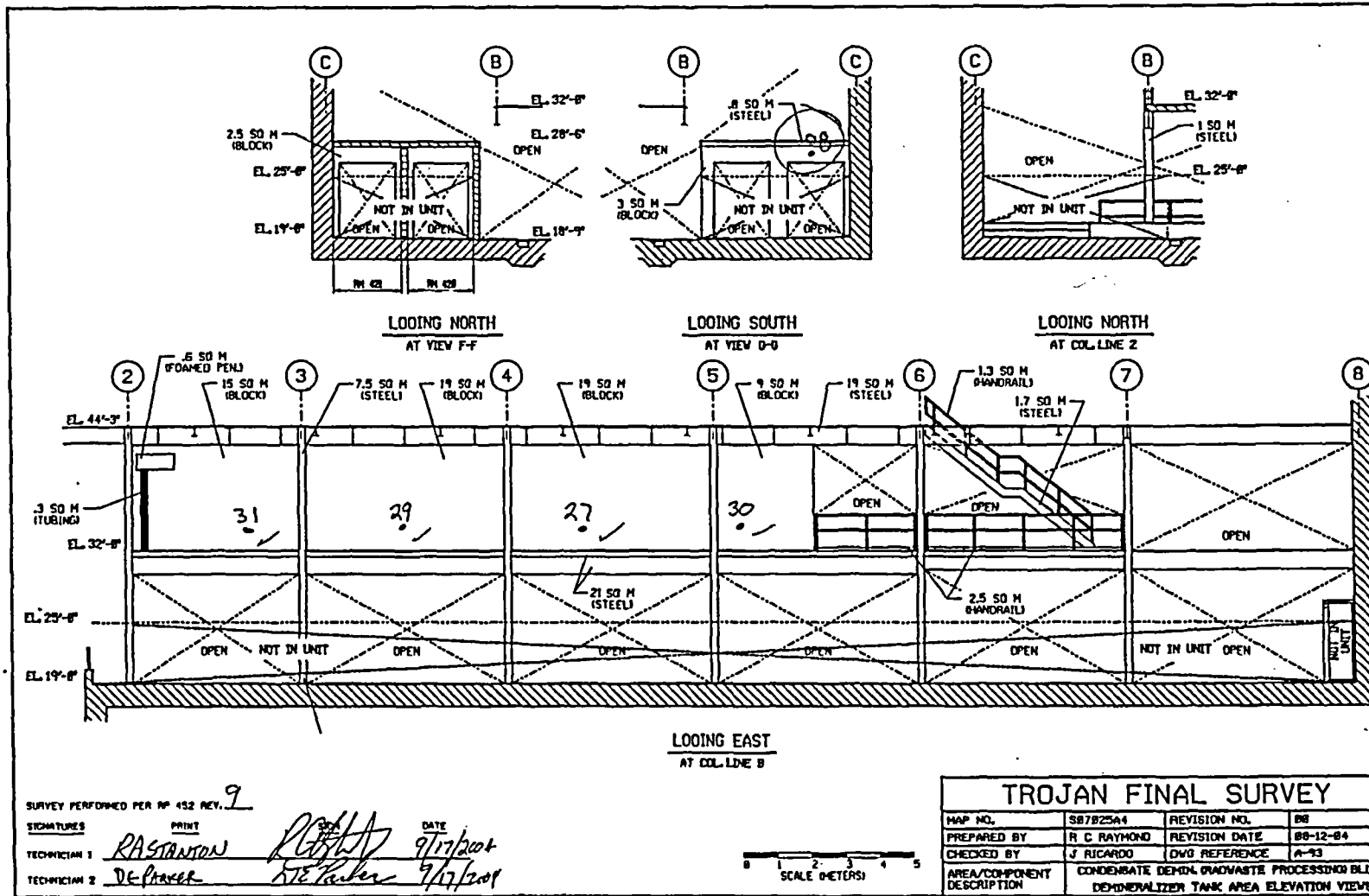
Survey Unit ID Code: S07025A

Survey Unit Name: Condensate Demineralizer Building 19' Elevation - Upper Walls and Ceiling

Classification: Class 2

Size (m²): 653

Static Measurement Locations Map



SURVEY PERFORMED PER # 452 REV. 9
 SIGNATURES: PRINT
 TECHNICIAN 1: RASTANTON, DATE: 9/17/2004
 TECHNICIAN 2: DEFRANCO, DATE: 9/17/2004

FINAL SURVEY RESULTS SUMMARY

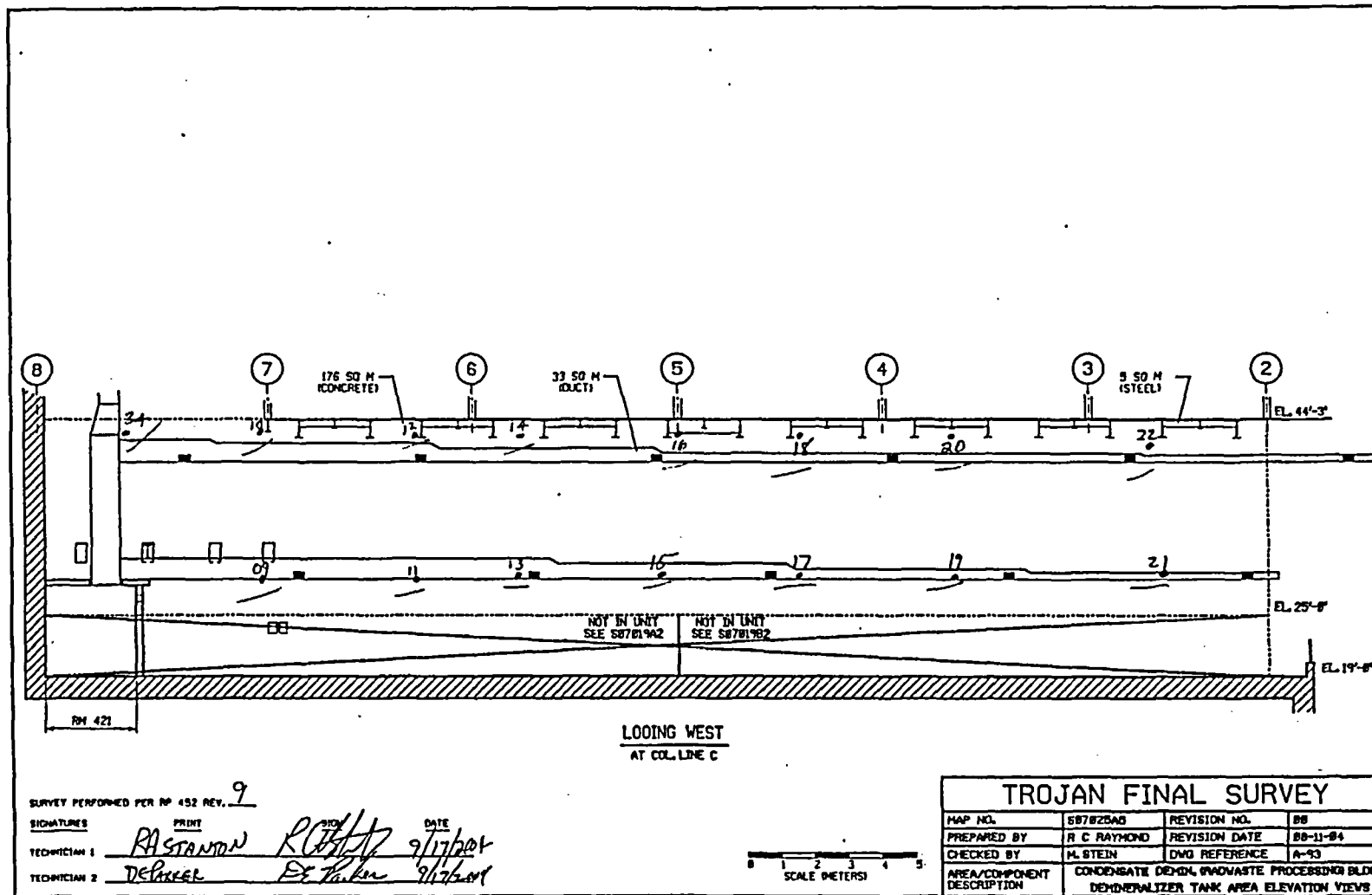
Survey Unit ID Code: S07025A

Survey Unit Name: Condensate Demineralizer Building 19' Elevation - Upper Walls and Ceiling

Classification: Class 2

Size (m²): 653

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

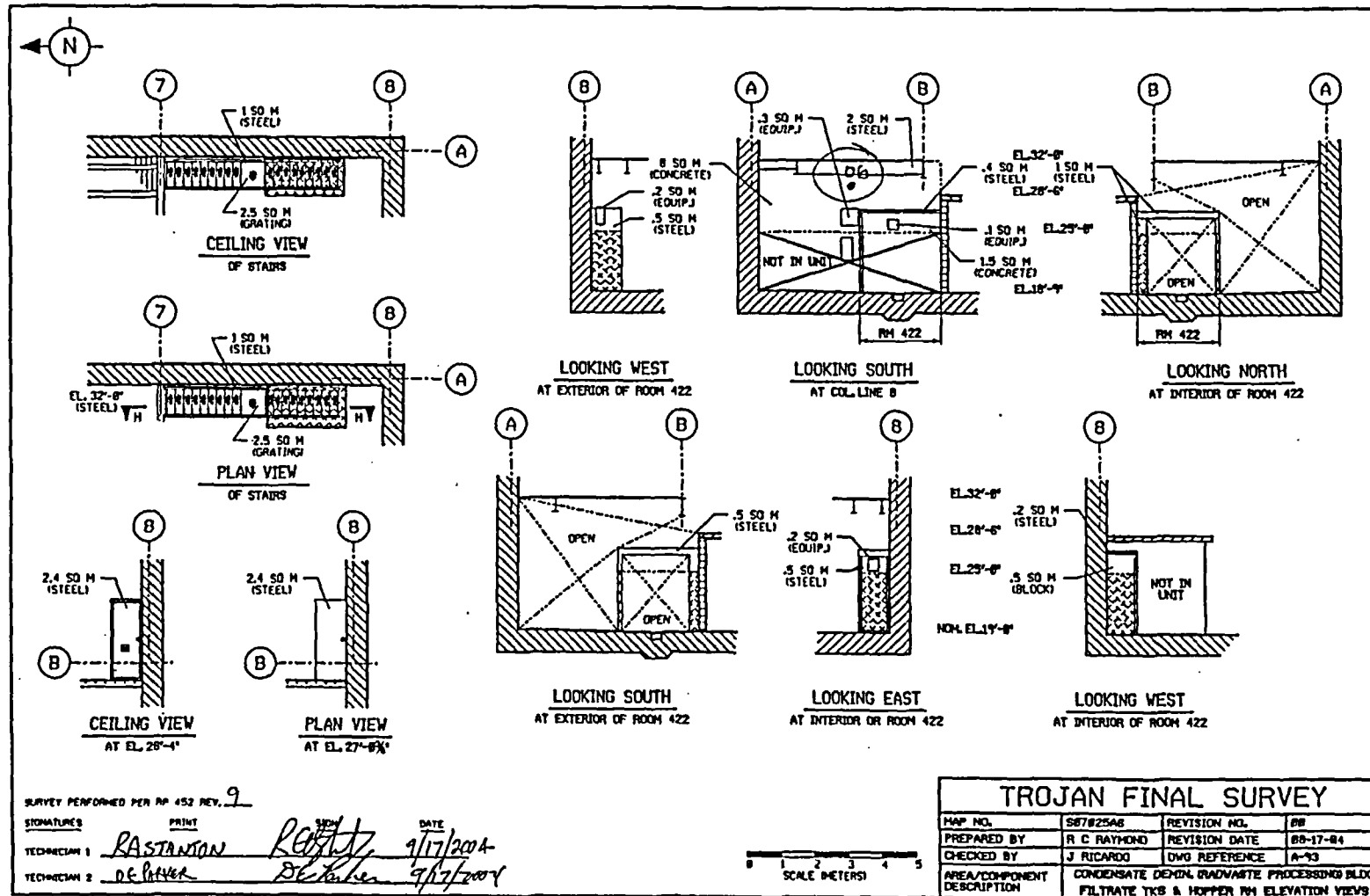
Survey Unit ID Code: S07025A

Survey Unit Name: Condensate Demineralizer Building 19' Elevation - Upper Walls and Ceiling

Classification: Class 2

Size (m²): 653

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

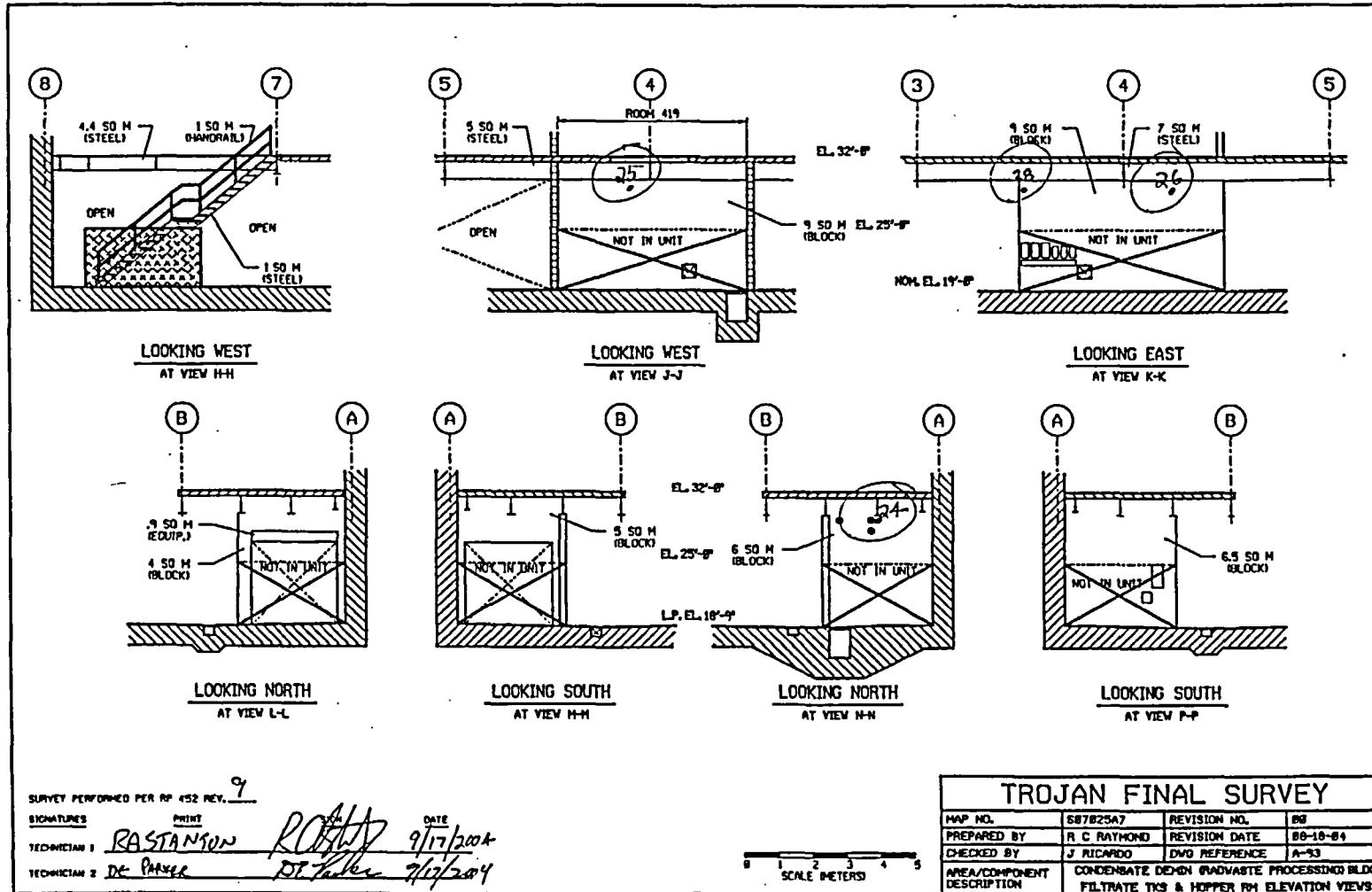
Survey Unit ID Code: S07025A

Survey Unit Name: Condensate Demineralizer Building 19' Elevation – Upper Walls and Ceiling

Classification: Class 2

Size (m²): 653

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 9

SIGNATURES	PRINT	DATE
TECHNICIAN 1	RASTANSON <i>R. Stanson</i>	9/17/2004
TECHNICIAN 2	DE PRASSE <i>D. Prasse</i>	7/17/2004



TROJAN FINAL SURVEY			
MAP NO.	S07025A7	REVISION NO.	00
PREPARED BY	R. C. RAYMOND	REVISION DATE	08-18-04
CHECKED BY	J. RICARDO	DWG REFERENCE	A-93
AREA/COMPONENT DESCRIPTION	CONDENSATE DEMINERALIZER BUILDING PROCESSING BLDG FILTRATE TKS & HOPPER RM ELEVATION VIEWS		

FINAL SURVEY RESULTS SUMMARY

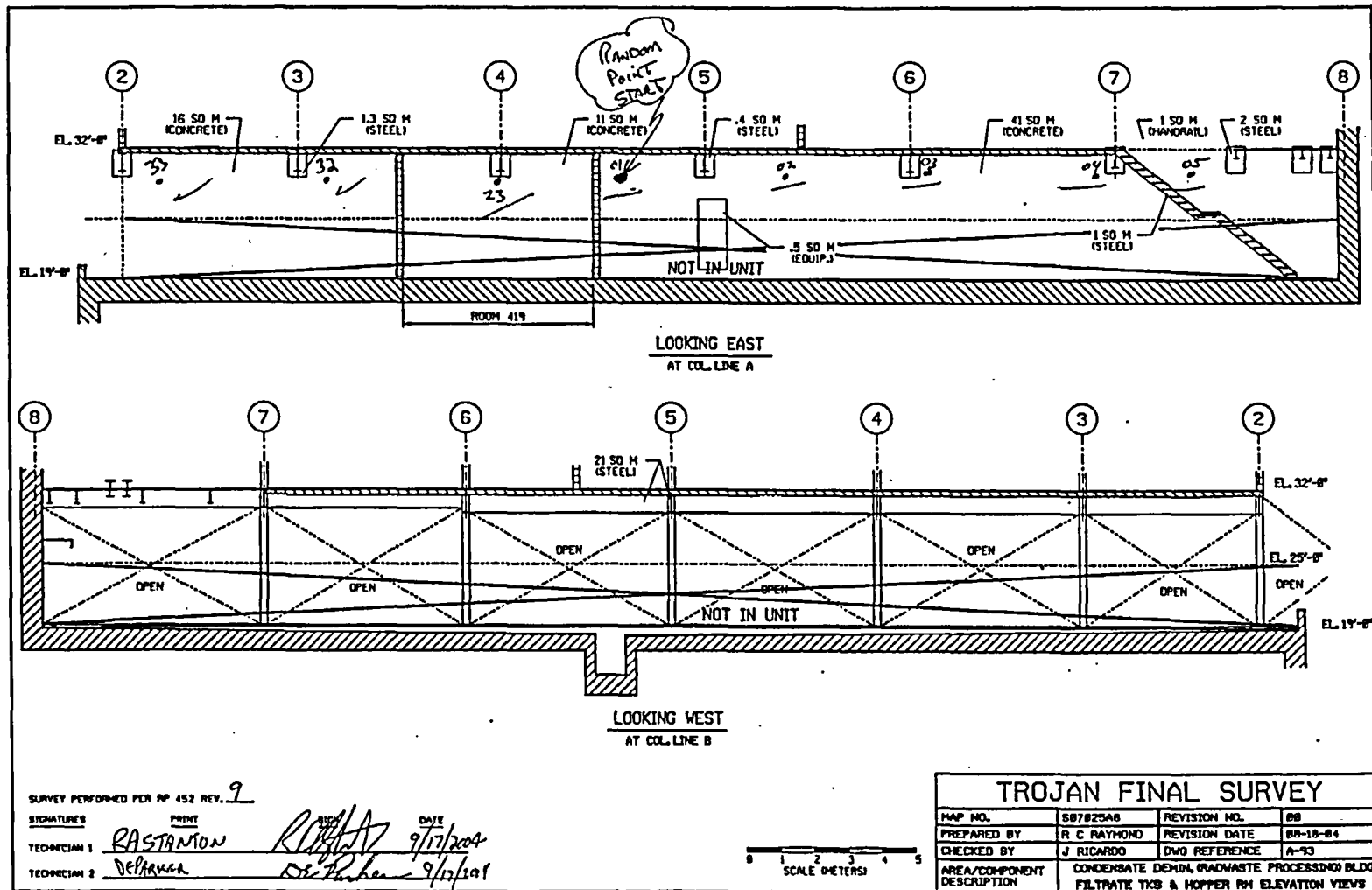
Survey Unit ID Code: S07025A

Survey Unit Name: Condensate Demineralizer Building 19' Elevation – Upper Walls and Ceiling

Classification: Class 2

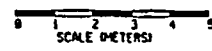
Size (m²): 653

Static Measurement Locations Map



SURVEY PERFORMED PER AP 452 REV. 9

SIGNATURES	PRINT	DATE
TECHNICIAN 1	RASTANON	9/17/04
TECHNICIAN 2	DEBARNA	9/17/04



TROJAN FINAL SURVEY			
MAP NO.	S07025A8	REVISION NO.	08
PREPARED BY	R C RAYMOND	REVISION DATE	08-18-04
CHECKED BY	J RICARDO	DWG REFERENCE	A-93
AREA/COMPONENT DESCRIPTION	CONDENSATE DEMIN. WASTE PROCESSING BLDG FILTRATE TKS & HOPPER RM ELEVATION VIEWS		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07032A

Classification: Class 2

Survey Unit Name: Condensate Demineralizer Building

Size (m²): 594

32' Elevation - Mid-Level Floor, Walls, and Ceiling

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	31	DPM/100 CM ²	7.500e+003	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 6.404e+002
 Maximum Value : 2.466e+003
 Range : 1.826e+003
 Median : 8.997e+002
 Std. Deviation : 5.426e+002
 Mean : 1.155e+003
 95% UCL : 1.320e+003

Measurement Values

Location	Value	Location	Value
000001	7.976e+002	000018	8.997e+002
000002	2.322e+003	000019	8.997e+002
000003	8.526e+002	000020	9.822e+002
000004	6.915e+002	000021	9.901e+002
000005	2.466e+003	000022	8.919e+002
000006	8.172e+002	000023	1.332e+003
000007	2.132e+003	000024	1.194e+003
000008	8.212e+002	000025	6.404e+002
000009	8.604e+002	000026	1.497e+003
000010	8.251e+002	000027	8.251e+002
000011	2.269e+003	000028	1.179e+003
000012	7.858e+002	000029	8.919e+002
000013	2.315e+003	000030	1.175e+003
000014	8.133e+002	000031	9.037e+002
000015	8.762e+002		
000016	8.840e+002		
000017	9.626e+002		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07032A

Classification: Class 2

Survey Unit Name: Condensate Demineralizer Building

Size (m²): 594

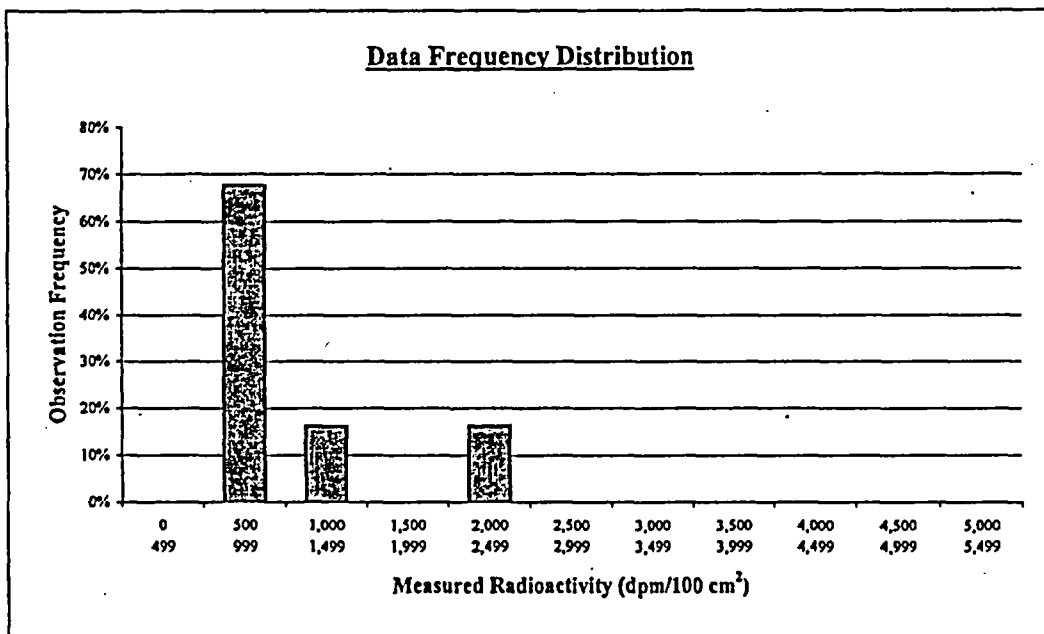
32' Elevation – Mid-Level Floor, Walls, and Ceiling

Measurement Data Statistical Evaluation

Statistical Comparisons			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	1,826	2,713	Pass
Median	0.469	0.500	Pass
Mean	1,155	6,000	Pass
Std Dev	543	1,500	Pass

Statistical Quantities	
Range:	1,826
Median:	900
Mean:	1,155
Std Dev:	543
Minimum:	640
Maximum:	2,466
DCGL:	7,500

All data less than DCGL; Sign statistical test not required.



Plot Parameters	
# of measurements:	31
# of intervals:	11
Interval increment:	500
Minimum:	0
Maximum:	5,499

Interval	High End	Low End	Number of Observations	Observation Frequency
1	499	0	0	0%
2	999	500	21	68%
3	1,499	1,000	5	16%
4	1,999	1,500	0	0%
5	2,499	2,000	5	16%
6	2,999	2,500	0	0%
7	3,499	3,000	0	0%
8	3,999	3,500	0	0%
9	4,499	4,000	0	0%
10	4,999	4,500	0	0%
11	5,499	5,000	0	0%
Total:			31	100%

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07032A **Classification:** Class 2
Survey Unit Name: Condensate Demineralizer Building **Size (m²):** 594
32' Elevation – Mid-Level Floor, Walls, and Ceiling

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta **Scan Coverage (%):** 15
Measurement Units: dpm/100cm² **Investigation Level:** 7,500
Minimum Value: 969 **Maximum Value:** 2,901

Measurement Type: Removable Beta **Number of Measurements:** 31
Measurement Units: dpm/100cm² **Investigation Level:** 750
Minimum Value: 45 **Maximum Value:** 86

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

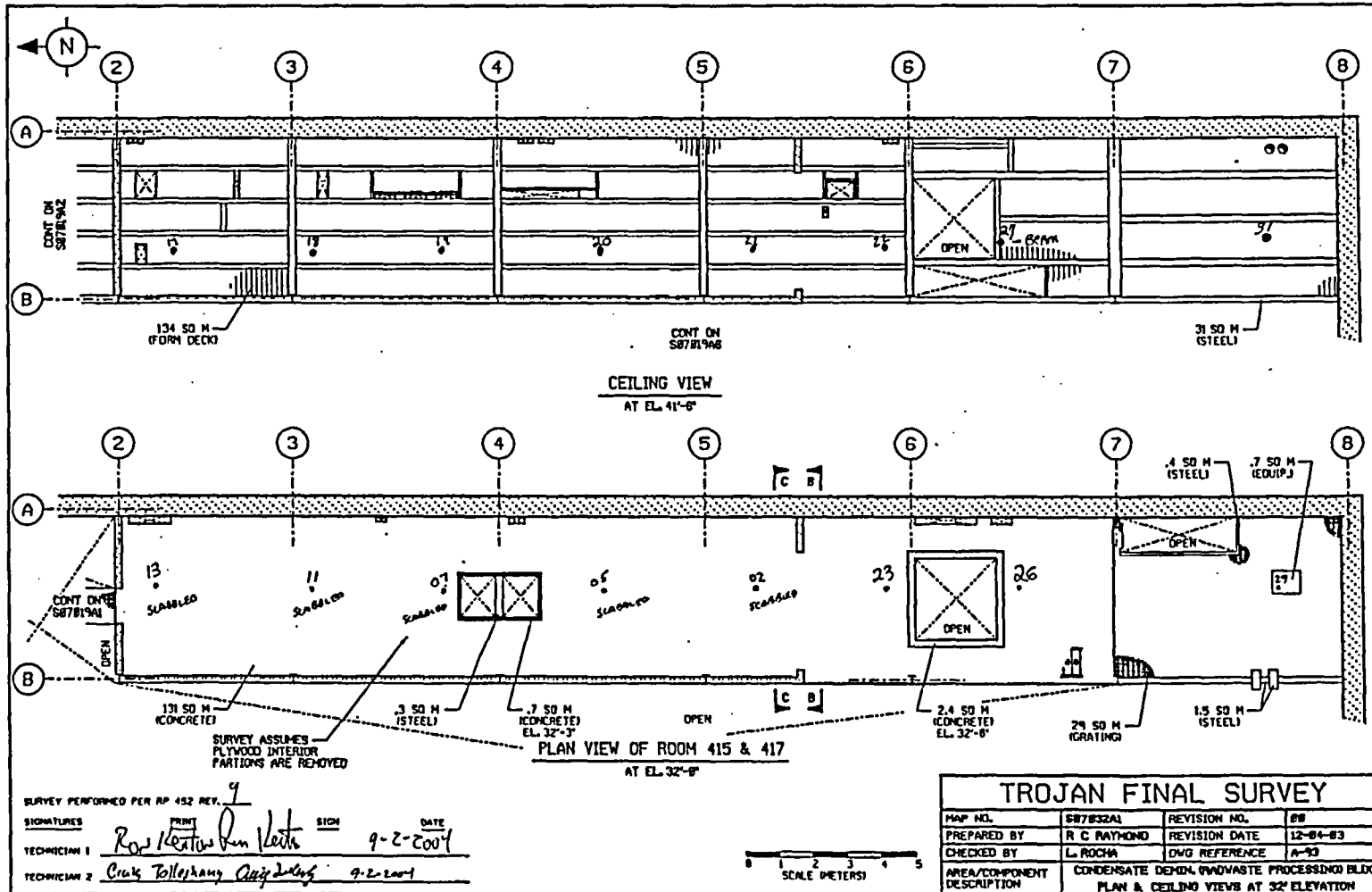
Survey Unit ID Code: S07032A

Classification: Class 2

Survey Unit Name: Condensate Demineralizer Building 32' Elevation -
Mid-Level Floor, Walls, and Ceiling

Size (m²): 594

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

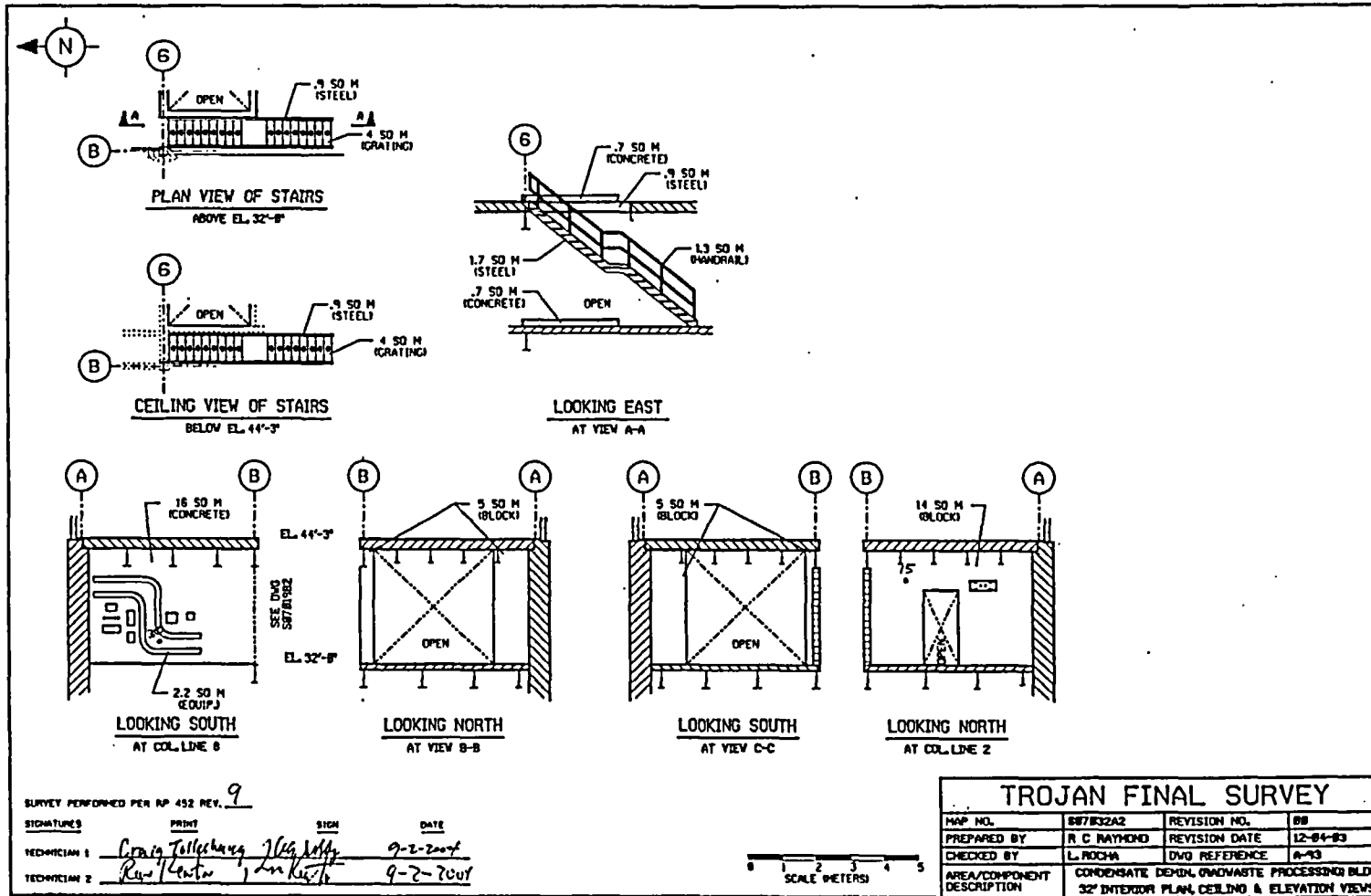
Survey Unit ID Code: S07032A

Survey Unit Name: Condensate Demineralizer Building 32' Elevation -
Mid-Level Floor, Walls, and Ceiling

Classification: Class 2

Size (m²): 594

Static Measurement Locations Map

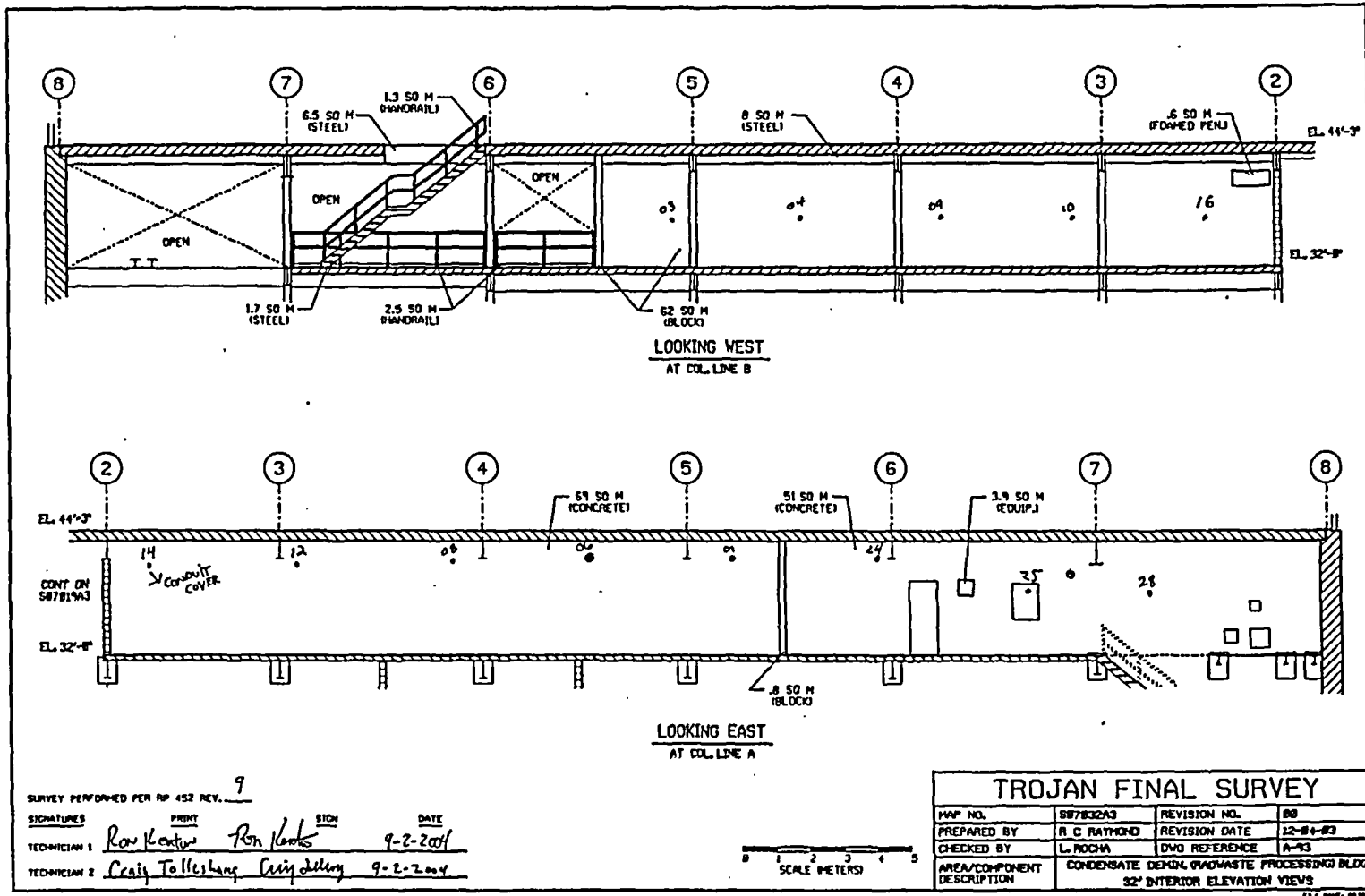


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07032A
 Survey Unit Name: Condensate Demineralizer Building 32' Elevation -
 Mid-Level Floor, Walls, and Ceiling

Classification: Class 2
 Size (m²): 594

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07045A

Classification: Class 2

Survey Unit Name: Condensate Demineralizer Building
45' Elevation - Floor, Walls, and Ceiling

Size (m²): 1,609

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	7.500e+003	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 7.661e+002
 Maximum Value : 1.564e+003
 Range : 7.979e+002
 Median : 1.014e+003
 Std. Deviation : 2.175e+002
 Mean : 1.068e+003
 95% UCL : 1.136e+003

Measurement Values

Location	Value	Location	Value
000001	1.285e+003	000018	1.261e+003
000002	1.477e+003	000019	1.320e+003
000003	1.014e+003	000020	8.369e+002
000004	1.006e+003	000021	1.018e+003
000005	7.661e+002	000022	1.061e+003
000006	9.587e+002	000023	1.367e+003
000007	9.783e+002	000024	1.316e+003
000008	8.801e+002	000025	9.430e+002
000009	8.329e+002	000026	9.351e+002
000010	1.061e+003	000027	9.351e+002
000011	1.564e+003	000028	1.014e+003
000012	1.135e+003	000029	1.466e+003
000013	7.819e+002	000030	9.154e+002
000014	1.049e+003		
000015	1.080e+003		
000016	8.094e+002		
000017	9.862e+002		

FINAL SURVEY RESULTS SUMMARY

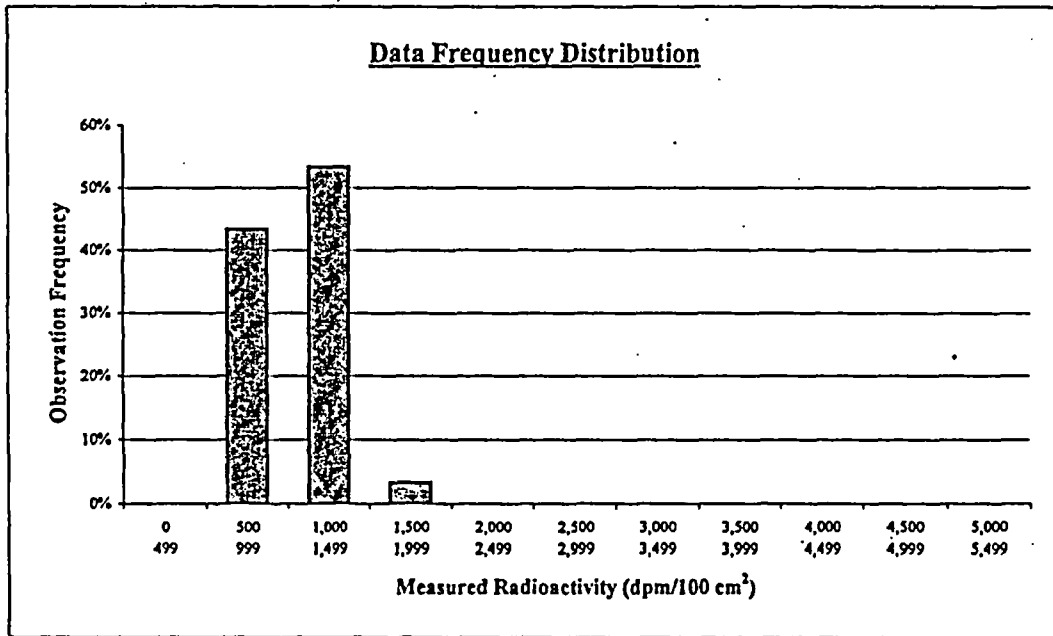
Survey Unit ID Code: S07045A
 Survey Unit Name: Condensate Demineralizer Building
 45' Elevation – Floor, Walls, and Ceiling

Classification: Class 2
 Size (m²): 1,609

Measurement Data Statistical Evaluation

Statistical Comparisons				Statistical Quantities	
Test	Calculated Value	Acceptance Criteria	Acceptable?	Range:	798
Range	798	1,088	Pass	Median:	1,014
Median	0.250	0.500	Pass	Mean:	1,068
Mean	1,068	6,000	Pass	Std Dev:	218
Std Dev	218	1,500	Pass	Minimum:	766
				Maximum:	1,564
				DCGL:	7,500

All data less than DCGL; Sign statistical test not required.



Plot Parameters		Interval	High End	Low End	Number of Observations	Observation Frequency
# of measurements:	30	1	499	0	0	0%
# of intervals:	11	2	999	500	13	43%
Interval increment:	500	3	1,499	1,000	16	53%
Minimum:	0	4	1,999	1,500	1	3%
Maximum:	5,499	5	2,499	2,000	0	0%
		6	2,999	2,500	0	0%
		7	3,499	3,000	0	0%
		8	3,999	3,500	0	0%
		9	4,499	4,000	0	0%
		10	4,999	4,500	0	0%
		11	5,499	5,000	0	0%
		Total:			30	100%

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07045A

Classification: Class 2

Survey Unit Name: Condensate Demineralizer Building
45' Elevation – Floor, Walls, and Ceiling

Size (m²): 1,609

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 10

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 772

Maximum Value: 2,505

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 46

Maximum Value: 77

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

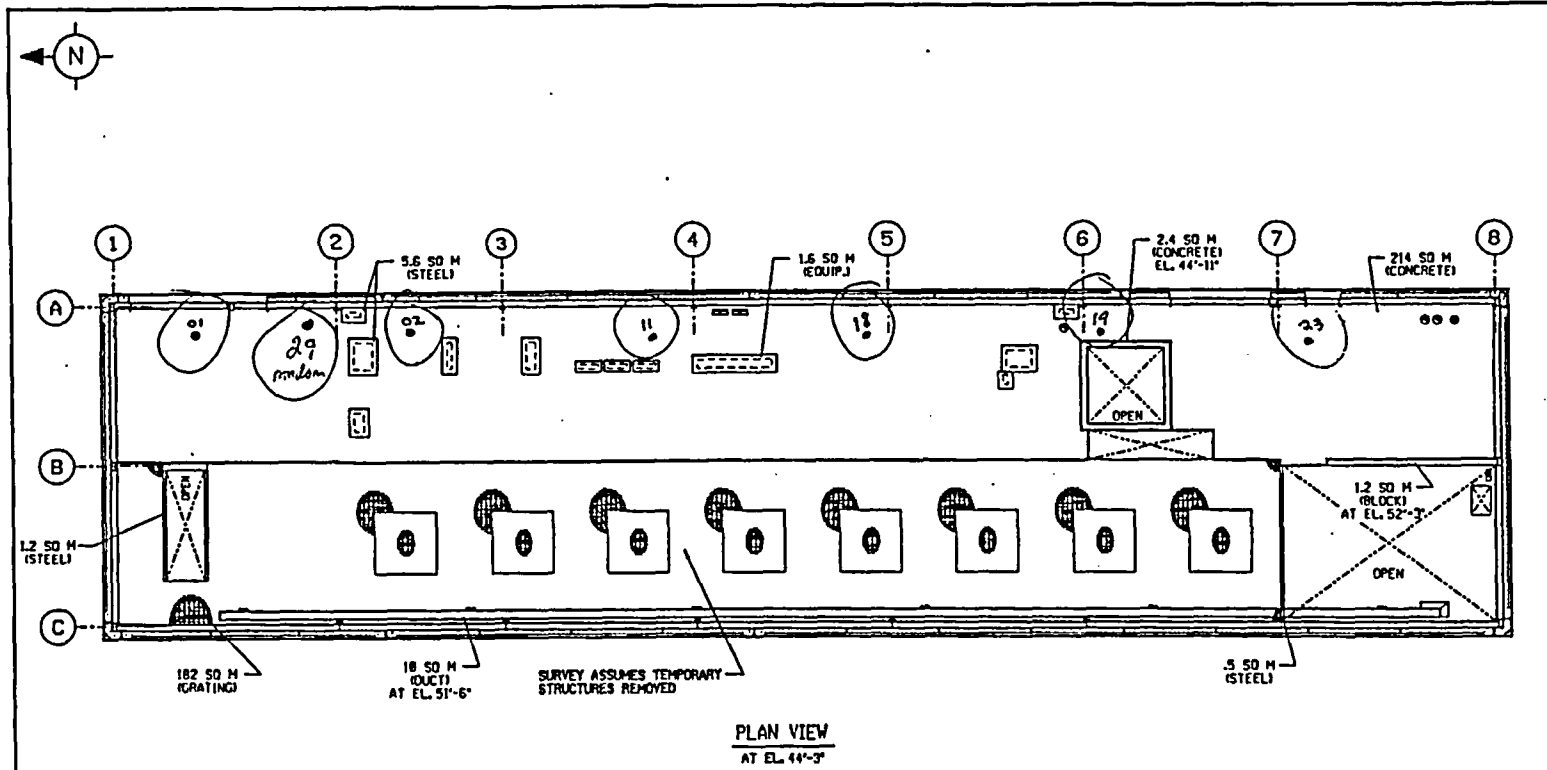
Survey Unit ID Code: S07045A

Survey Unit Name: Condensate Demineralizer Building 45' Elevation - Floor, Walls, and Ceiling

Classification: Class 2

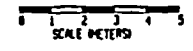
Size (m²): 1,609

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 9

SIGNATURES PRINT SIGN DATE
 TECHNICIAN 1 *Craig Tolson* *Craig Tolson* 9/13/2001
 TECHNICIAN 2 *Forrest* *Forrest* 9-13-2001



TROJAN FINAL SURVEY			
MAP NO.	S07045A	REVISION NO.	00
PREPARED BY	R C RAYMOND	REVISION DATE	12-05-00
CHECKED BY	C D OLSON	DWG REFERENCE	A-93
AREA/COMPONENT DESCRIPTION	CONDENSATE DEMIN. RADWASTE PROCESSING BLDG PLAN VIEW 44' ELEVATION		

FINAL SURVEY RESULTS SUMMARY

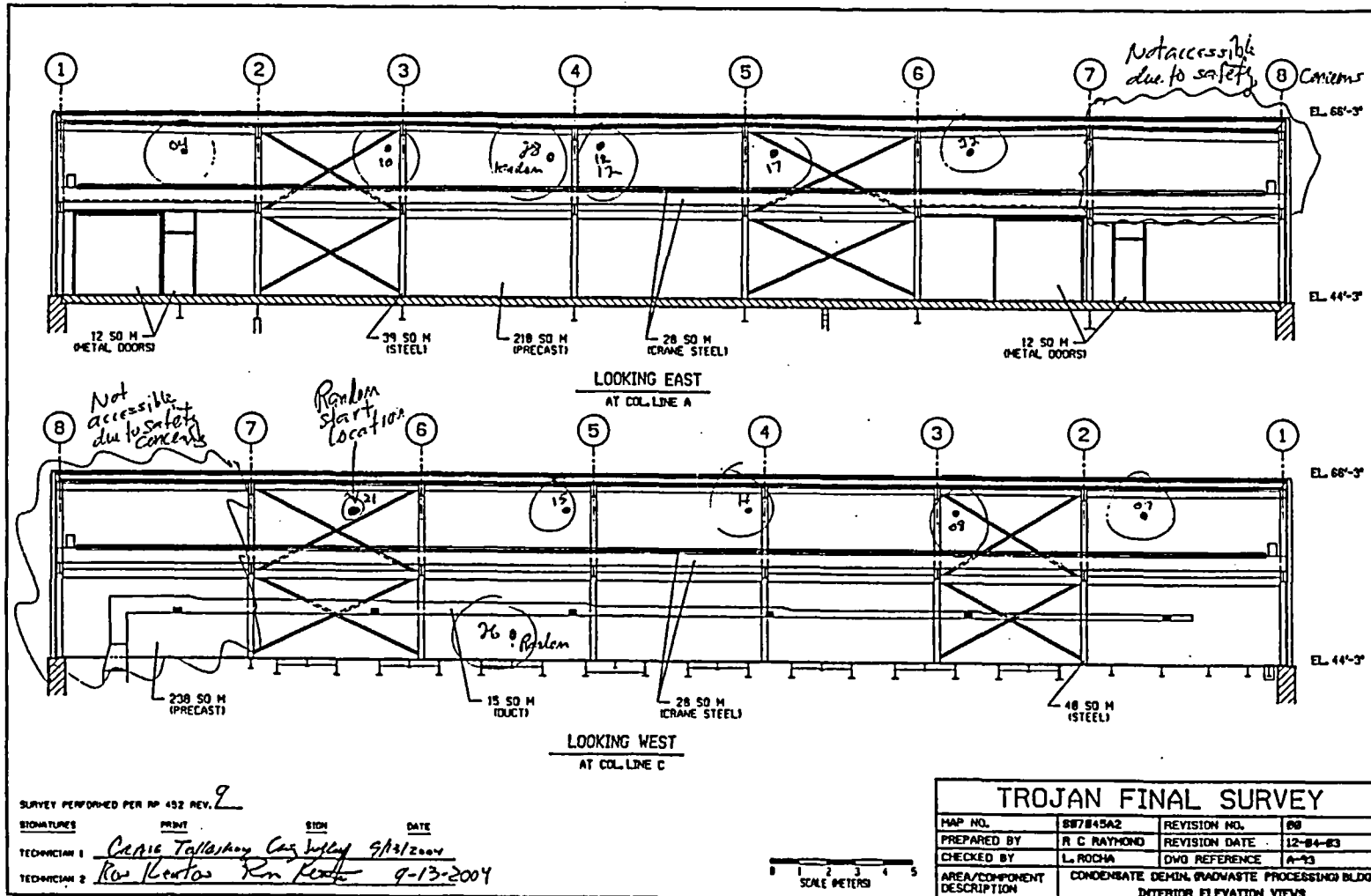
Survey Unit ID Code: S07045A

Survey Unit Name: Condensate Demineralizer Building 45' Elevation - Floor, Walls, and Ceiling

Classification: Class 2

Size (m²): 1,609

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 2

SIGNATURE	PRINT	SIGN	DATE
TECHNICIAN 1	<i>Cecilia Tallema</i>	<i>Cecilia Tallema</i>	9/13/2004
TECHNICIAN 2	<i>Ron Kentos</i>	<i>Ron Kentos</i>	9-13-2004



TROJAN FINAL SURVEY			
MAP NO.	S07045A2	REVISION NO.	00
PREPARED BY	R C RAYMOND	REVISION DATE	12-04-03
CHECKED BY	L. ROCHA	DWG REFERENCE	A-93
AREA/COMPONENT DESCRIPTION	CONDENSATE DEMIN. WASTEWATER PROCESSING BLDG INTERIOR ELEVATION VIEWS		

FILE NAME: S07045A2

FINAL SURVEY RESULTS SUMMARY

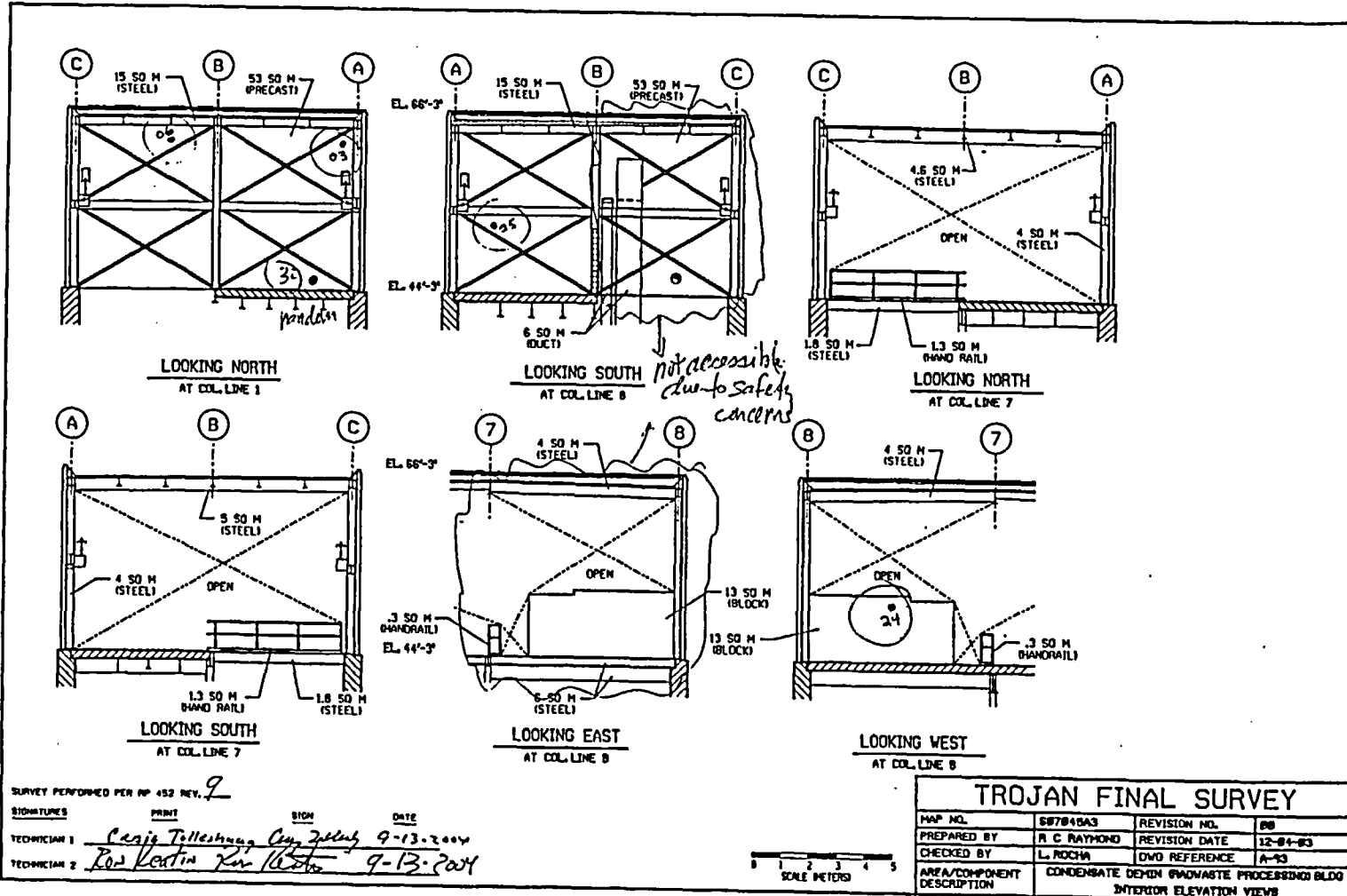
Survey Unit ID Code: S07045A

Survey Unit Name: Condensate Demineralizer Building 45' Elevation - Floor, Walls, and Ceiling

Classification: Class 2

Size (m²): 1,609

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

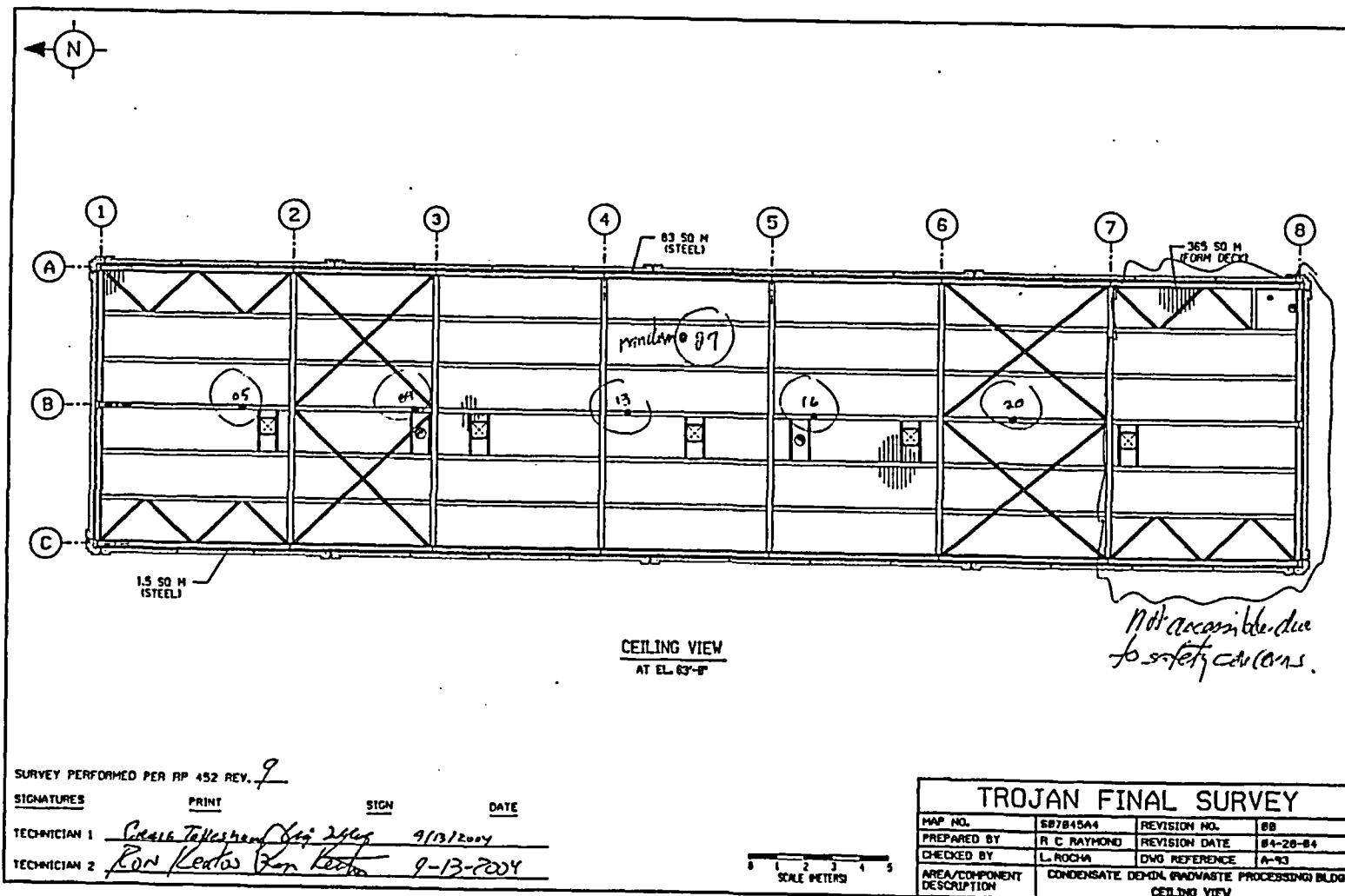
Survey Unit ID Code: S07045A

Survey Unit Name: Condensate Demineralizer Building 45' Elevation - Floor, Walls, and Ceiling

Classification: Class 2

Size (m²): 1,609

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07045B
 Survey Unit Name: Condensate Demineralizer Building
 45' Elevation - Crane and Trolley Rails

Classification: Class 1
 Size (m²): 33

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
1	30	DPM/100 CM ²	7.500e+003	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 5.846e+002
 Maximum Value : 1.057e+003
 Range : 4.724e+002
 Median : 7.608e+002
 Std. Deviation : 1.499e+002
 Mean : 8.196e+002
 95% UCL : 8.661e+002

Measurement Values

Location	Value	Location	Value
000001	6.117e+002	000018	8.053e+002
000002	6.310e+002	000019	6.969e+002
000003	6.543e+002	000020	5.846e+002
000004	7.433e+002	000021	6.659e+002
000005	6.543e+002	000022	7.472e+002
000006	6.581e+002	000023	7.433e+002
000007	7.743e+002	000024	9.059e+002
000008	1.003e+003	000025	9.485e+002
000009	1.034e+003	000026	9.175e+002
000010	1.057e+003	000027	9.214e+002
000011	1.010e+003	000028	9.175e+002
000012	9.911e+002	000029	9.292e+002
000013	1.041e+003	000030	7.123e+002
000014	1.003e+003		
000015	7.395e+002		
000016	7.472e+002		
000017	7.395e+002		

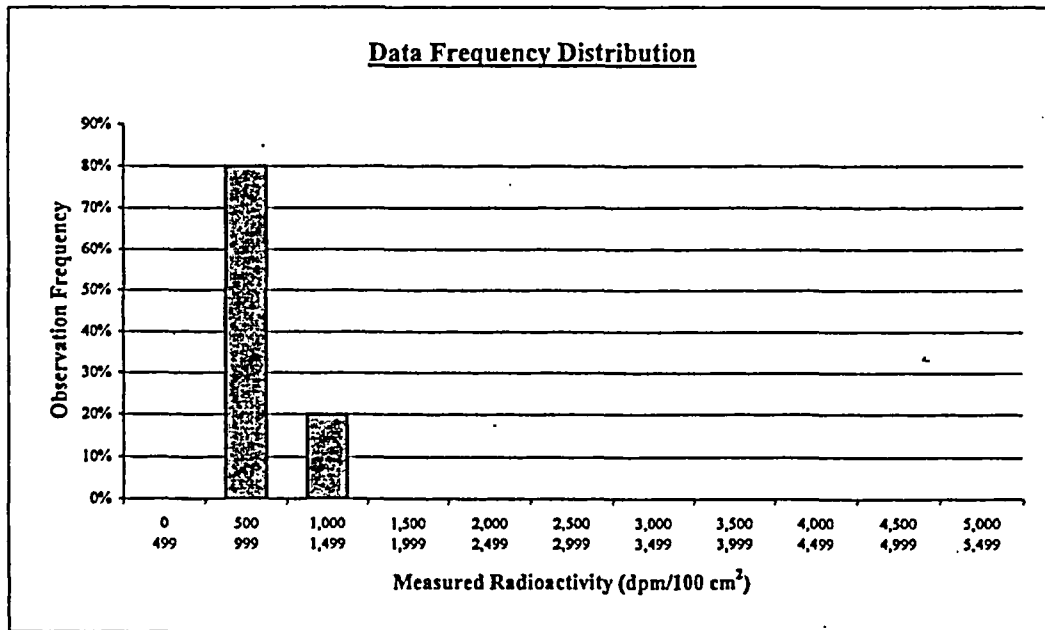
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07045B
Survey Unit Name: Condensate Demineralizer Building
 45' Elevation – Crane and Trolley Rails

Classification: Class 1
Size (m²): 33

Measurement Data Statistical Evaluation

Statistical Comparisons				Statistical Quantities	
Test	Calculated Value	Acceptance Criteria	Acceptable?		
Range	472	750	Pass	Range:	472
Median	0.394	0.500	Pass	Median:	761
Mean	820	7,500	Pass	Mean:	820
Std Dev	150	1,500	Pass	Std Dev:	150
				Minimum:	585
				Maximum:	1,057
All data less than DCGL; Sign statistical test not required.				DCGL:	7,500



<u>Plot Parameters</u>		<u>Number of Observations</u>				<u>Observation Frequency</u>
		Interval	High End	Low End	Observations	Frequency
# of measurements:	30	1	499	0	0	0%
# of intervals:	11	2	999	500	24	80%
Interval increment:	500	3	1,499	1,000	6	20%
Minimum:	0	4	1,999	1,500	0	0%
Maximum:	5,499	5	2,499	2,000	0	0%
		6	2,999	2,500	0	0%
		7	3,499	3,000	0	0%
		8	3,999	3,500	0	0%
		9	4,499	4,000	0	0%
		10	4,999	4,500	0	0%
		11	5,499	5,000	0	0%
		Total:			30	100%

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07045B

Classification: Class 1

Survey Unit Name: Condensate Demineralizer Building
45' Elevation – Crane and Trolley Rails

Size (m²): 33

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 100

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 833

Maximum Value: 4,311

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 46

Maximum Value: 95

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

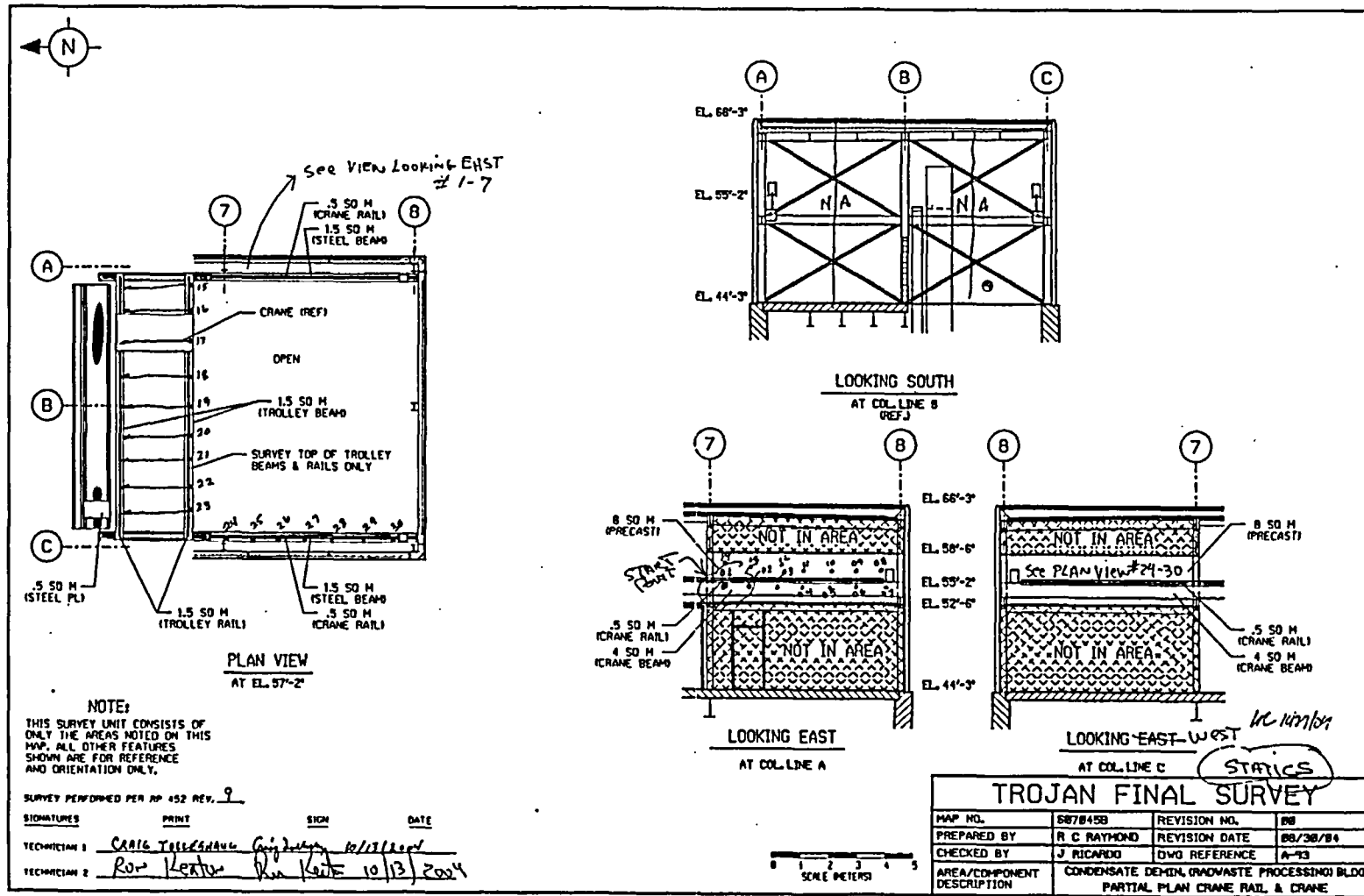
Survey Unit ID Code: S07045B

Survey Unit Name: Condensate Demineralizer Building 45' Elevation - Crane and Trolley Rails

Classification: Class 1

Size (m²): 33

Static Measurement Locations Map



APPENDIX E

SURVEY UNIT SUMMARY REPORTS – SITE GROUNDS

<u>Survey Unit ID Code</u>	<u>Page(s)</u>
G51038A.....	E-2 through E-5
G51045A.....	E-6 through E-9
G51045B.....	E-10 through E-13
G51045C.....	E-14 through E-17
G51045D.....	E-18 through E-21
G51045E.....	E-22 through E-25
G51045F.....	E-26 through E-29
G52025A.....	E-30 through E-33

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51038A
 Survey Unit Name: Concrete Block Storage Area

Classification: Class 2
 Size (m²): 1,800

Unity Rule Evaluation

DCGL: pCi/g
 Co-60 3.8
 Cs-137 11.0

pCi/g
 H-3 110.0
 C-14 12.0

Unity Rule: ratio sum < 1.0

Location Number	Recorded Activity (pCi/g)				Ratios: (Recorded Activity) / (DCGL)				Ratio Sum
	Co-60	Cs-137	H-3	C-14	Co-60	C-137	H-3	C-14	
01	0.065	0.026	2.100	0.290	0.017	0.002	0.019	0.024	0.063
02	0.073	0.075	1.700	0.380	0.019	0.007	0.015	0.032	0.073
03	0.057	0.020	2.400	0.300	0.015	0.002	0.022	0.025	0.064
04	0.069	0.045	2.700	0.570	0.018	0.004	0.025	0.048	0.094
05	0.074	0.043	2.800	0.260	0.019	0.004	0.025	0.022	0.071
06	0.047	0.058	2.600	0.360	0.012	0.005	0.024	0.030	0.071
07	0.071	0.077	3.400	0.230	0.019	0.007	0.031	0.019	0.076
08	0.068	0.029	2.600	0.300	0.018	0.003	0.024	0.025	0.069
09	0.062	0.073	2.000	0.350	0.016	0.007	0.018	0.029	0.070
10	0.069	0.060	2.400	0.200	0.018	0.005	0.022	0.017	0.062
11	0.061	0.082	3.500	0.300	0.016	0.007	0.032	0.025	0.080
12	0.077	0.070	3.500	0.310	0.020	0.006	0.032	0.026	0.084
13	0.045	0.053	1.600	0.330	0.012	0.005	0.015	0.028	0.059
14	0.073	0.068	2.100	0.520	0.019	0.006	0.019	0.043	0.088
15	0.069	0.068	3.000	0.540	0.018	0.006	0.027	0.045	0.097
16	0.062	0.064	2.800	0.470	0.016	0.006	0.025	0.039	0.087
17	0.073	0.073	2.300	0.500	0.019	0.007	0.021	0.042	0.088
18	0.043	0.051	0.490	0.190	0.011	0.005	0.004	0.016	0.036
19	0.059	0.051	2.100	0.340	0.016	0.005	0.019	0.028	0.068
20	0.064	0.059	3.100	0.500	0.017	0.005	0.028	0.042	0.092
21	0.063	0.041	1.800	0.360	0.017	0.004	0.016	0.030	0.067
22	0.083	0.077	3.300	0.570	0.022	0.007	0.030	0.048	0.106
23	0.077	0.071	2.300	0.550	0.020	0.006	0.021	0.046	0.093
24	0.077	0.031	1.900	0.390	0.020	0.003	0.017	0.033	0.073
25	0.055	0.065	2.900	0.640	0.014	0.006	0.026	0.053	0.100
26	0.084	0.049	2.300	0.530	0.022	0.004	0.021	0.044	0.092
27	0.051	0.063	2.300	0.480	0.013	0.006	0.021	0.040	0.080
28	0.070	0.088	2.300	0.820	0.018	0.008	0.021	0.068	0.116
29	0.058	0.069	2.000	0.770	0.015	0.006	0.018	0.064	0.104
30	0.063	0.083	1.900	1.000	0.017	0.008	0.017	0.083	0.125
31	0.057	0.068	2.400	0.700	0.015	0.006	0.022	0.058	0.101
32	0.074	0.074	1.200	0.710	0.019	0.007	0.011	0.059	0.096
Minimum	0.043	0.020	0.490	0.190	0.011	0.002	0.004	0.016	0.036
Maximum	0.084	0.088	3.500	1.000	0.022	0.008	0.032	0.083	0.125
Median	0.067	0.065	2.300	0.430	0.018	0.006	0.021	0.036	0.082
Mean	0.065	0.060	2.368	0.461	0.017	0.005	0.022	0.038	0.083
Std. Dev.	0.010	0.017	0.660	0.193	0.003	0.002	0.006	0.016	0.019

Conclusion:

All samples pass unity rule requirement; survey unit meets site release criterion.

FINAL SURVEY RESULTS SUMMARY

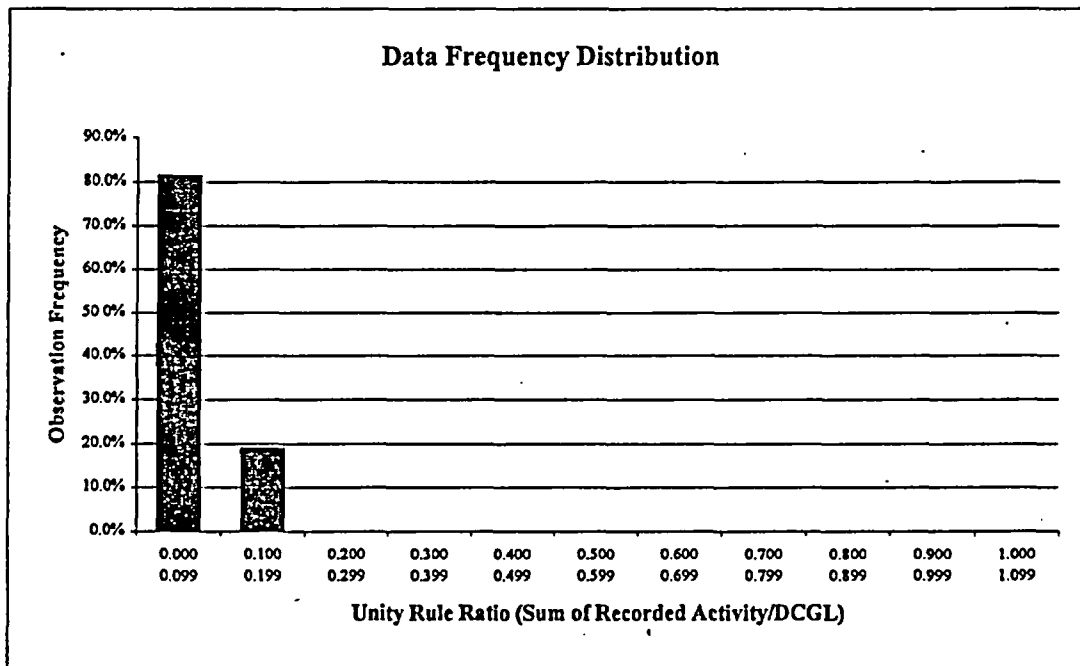
Survey Unit ID Code: G51038A
 Survey Unit Name: Concrete Block Storage Area

Classification: Class 2
 Size (m²): 1,800

Measurement Data Statistical Evaluation

Statistical Quantities Tests				Statistical Quantities	
Test	Calculated Value	Acceptance Criteria	Acceptable?		
Range	0.088	0.093	Pass	Range:	0.088
Median	0.019	0.500	Pass	Median:	0.082
Mean	0.083	1.000	Pass	Mean:	0.083
Std Dev	0.019	0.200	Pass	Std Dev:	0.019
				Minimum:	0.036
				Maximum:	0.125
				DCGL:	1.000

All data less than DCGL; Sign statistical test not required.



Plot Parameters		Interval	High	Low	Number	Frequency
# of measurements:	32	1	0.099	0.000	26	81.3%
# of intervals:	11	2	0.199	0.100	6	18.8%
Interval increment:	0.100	3	0.299	0.200	0	0.0%
Minimum:	0.000	4	0.399	0.300	0	0.0%
Maximum:	1.099	5	0.499	0.400	0	0.0%
		6	0.599	0.500	0	0.0%
		7	0.699	0.600	0	0.0%
		8	0.799	0.700	0	0.0%
		9	0.899	0.800	0	0.0%
		10	0.999	0.900	0	0.0%
		11	1.099	1.000	0	0.0%
Total:					32	100%

Comment:
None

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51038A
Survey Unit Name: Concrete Block Storage Area

Classification: Class 2
Size (m²): 1,800

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Gamma	Scan Coverage (%): 50
Measurement Units: Gross cpm	Investigation Level: 9,000
Minimum Value: 4,700	Maximum Value: 6,000

Discussion of Anomalous Measurement Data

The gross activity value of 9,000 cpm was used to identify areas that may have contained elevated volumetric residual radioactivity. A soil or gravel sample was collected at the location(s) that exceeded the gross activity value and the results reviewed to determine whether residual radioactivity exceeded the DCGL and required an investigation.

Investigation Summary

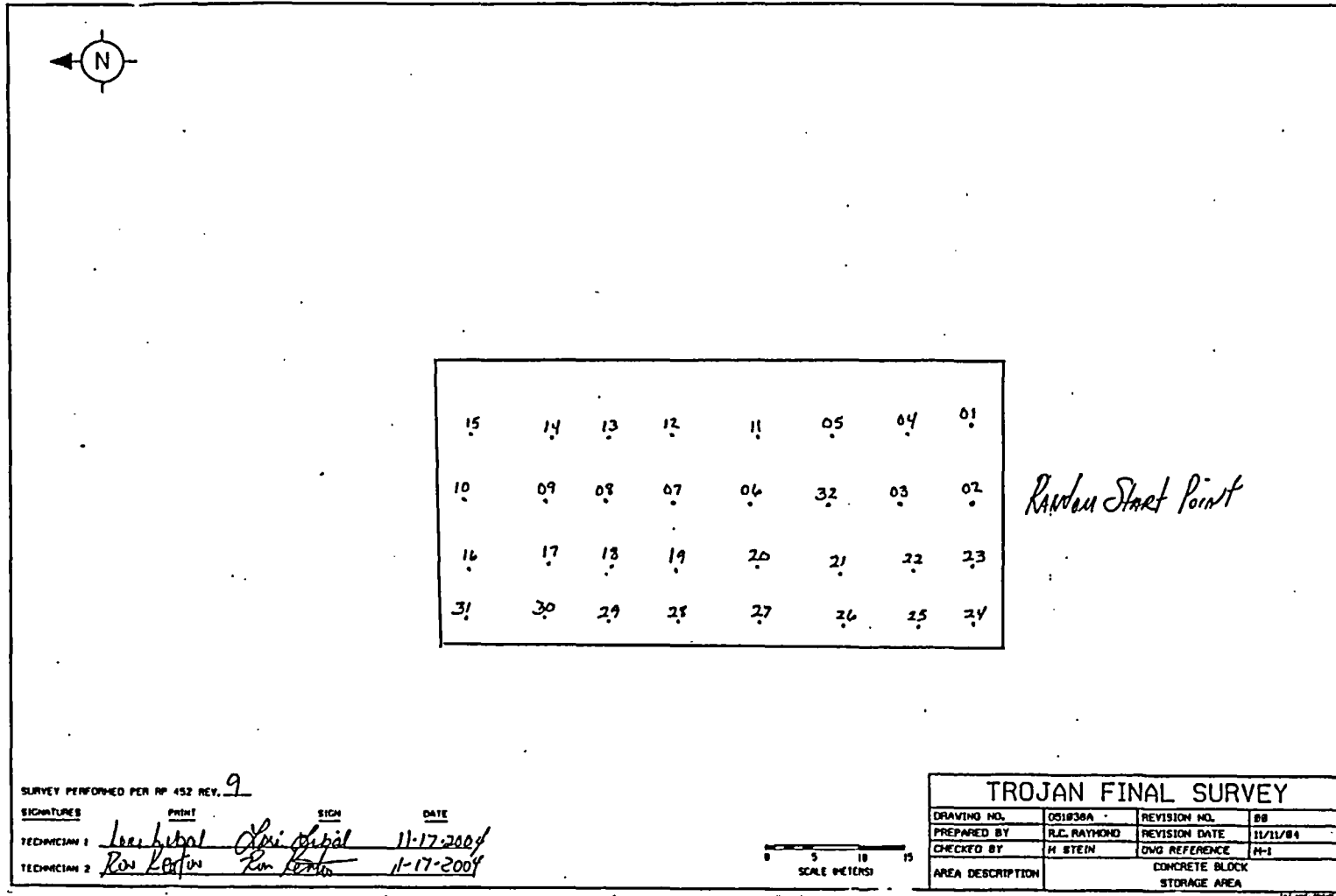
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51038A
 Survey Unit Name: Concrete Block Storage Area

Classification: Class 2
 Size (m²): 1,800

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045A
 Survey Unit Name: Balance of Industrial Area Grounds

Classification: Class 3
 Size (m²): 21,694

Unity Rule Evaluation

DCGL: pCi/g Unity Rule: ratio sum < 1.0
 Co-60 3.8
 Cs-137 11.0

Sample Location Number	Recorded Activity		Unity Rule Analysis		
	Co-60 pCi/g	Cs-137 pCi/g	(Activity) / (DCGL)		Ratio Sum
			Co-60	C-137	
01	0.044	0.072	0.012	0.007	0.018
02	0.055	0.042	0.014	0.004	0.018
03	0.062	0.049	0.016	0.004	0.021
04	0.078	0.030	0.021	0.003	0.023
05	0.047	0.056	0.012	0.005	0.017
06	0.052	0.053	0.014	0.005	0.019
07	0.058	0.054	0.015	0.005	0.020
08	0.062	0.062	0.016	0.006	0.022
09	0.058	0.059	0.015	0.005	0.021
10	0.052	0.051	0.014	0.005	0.018
11	0.068	0.056	0.018	0.005	0.023
12	0.073	0.026	0.019	0.002	0.022
13	0.077	0.096	0.020	0.009	0.029
14	0.052	0.068	0.014	0.006	0.020
15	0.065	0.062	0.017	0.006	0.023
16	0.081	0.029	0.021	0.003	0.024
17	0.066	0.068	0.017	0.006	0.024
18	0.074	0.027	0.019	0.002	0.022
19	0.066	0.044	0.017	0.004	0.021
20	0.075	0.033	0.020	0.003	0.023
21	0.077	0.077	0.020	0.007	0.027
22	0.070	0.067	0.018	0.006	0.025
23	0.071	0.068	0.019	0.006	0.025
24	0.074	0.062	0.019	0.006	0.025
25	0.071	0.063	0.019	0.006	0.024
26	0.065	0.061	0.017	0.006	0.023
27	0.079	0.083	0.021	0.008	0.028
28	0.068	0.080	0.018	0.007	0.025
29	0.080	0.025	0.021	0.002	0.023
30	0.069	0.075	0.018	0.007	0.025
31	0.064	0.083	0.017	0.008	0.024
Minimum	0.044	0.025	0.012	0.002	0.017
Maximum	0.081	0.096	0.021	0.009	0.029
Median	0.068	0.061	0.018	0.006	0.023
Mean	0.066	0.057	0.017	0.005	0.023
Std. Dev.	0.010	0.019	0.003	0.002	0.003

Conclusion:

All samples pass unity rule requirement; survey unit meets site release criterion.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045A
 Survey Unit Name: Balance of Industrial Area Grounds

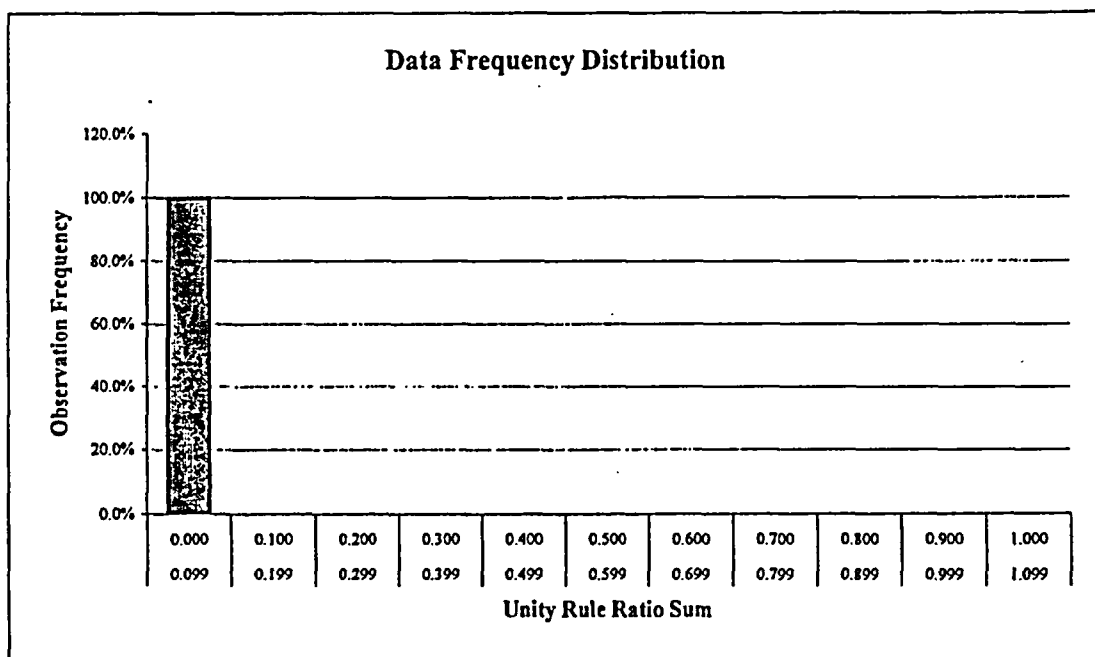
Classification: Class 3
 Size (m²): 21,694

Measurement Data Statistical Evaluation

Statistical Quantities Tests			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	0.012	0.015	Pass
Median	0.031	0.500	Pass
Mean	0.023	1.000	Pass
Std Dev	0.003	0.200	Pass

Statistical Quantities	
Range:	0.012
Median:	0.023
Mean:	0.023
Std Dev:	0.003
Minimum:	0.017
Maximum:	0.029
DCGL:	1.000

All data less than DCGL; Sign statistical test not required.



Plot Parameters	
# of measurements:	31
# of intervals:	11
Interval increment:	0.100
Minimum:	0.000
Maximum:	1.099

Interval	High	Low	Number	Frequency
1	0.099	0.000	31	100.0%
2	0.199	0.100	0	0.0%
3	0.299	0.200	0	0.0%
4	0.399	0.300	0	0.0%
5	0.499	0.400	0	0.0%
6	0.599	0.500	0	0.0%
7	0.699	0.600	0	0.0%
8	0.799	0.700	0	0.0%
9	0.899	0.800	0	0.0%
10	0.999	0.900	0	0.0%
11	1.099	1.000	0	0.0%
Total:			31	100%

Comment:
None

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045A
Survey Unit Name: Balance of Industrial Area Grounds

Classification: Class 3
Size (m²): 21,694

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Gamma	Scan Coverage (%): 5
Measurement Units: Gross cpm	Investigation Level: 9,000
Minimum Value: 6,400	Maximum Value: 9,000

Discussion of Anomalous Measurement Data

The gross activity value of 9,000 cpm was used to identify areas that may have contained elevated volumetric residual radioactivity. A soil or gravel sample was collected at the location(s) that exceeded the gross activity value and the results reviewed to determine whether residual radioactivity exceeded the DCGL and required an investigation.

Investigation Summary

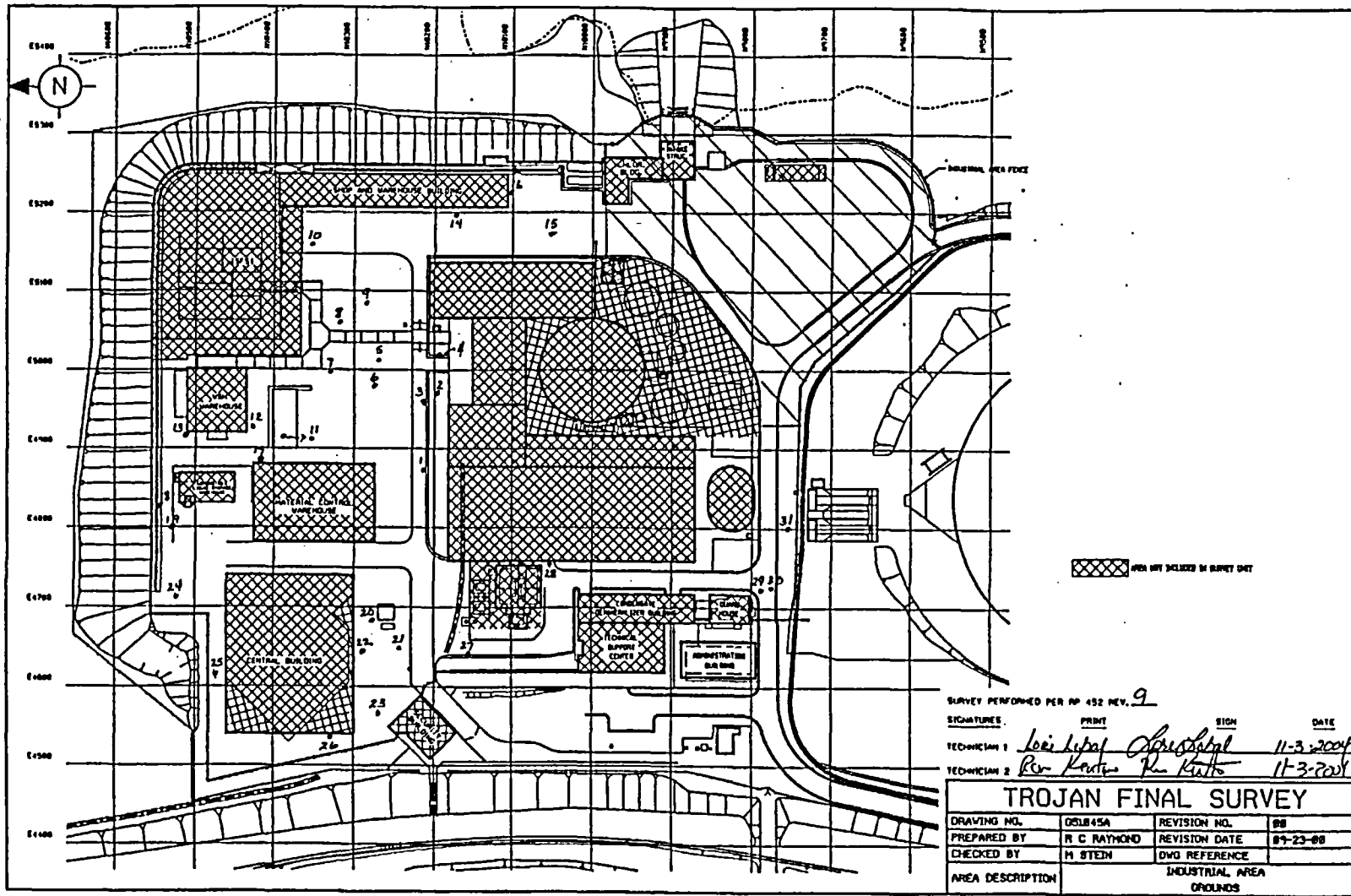
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045A
 Survey Unit Name: Balance of Industrial Area Grounds

Classification: Class 3
 Size (m²): 21,694

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045B
 Survey Unit Name: Tank Farm Yard Area #1

Classification: Class 2
 Size (m²): 2,743

Unity Rule Evaluation

DCGL: pCi/g Unity Rule: ratio sum < 1.0
 Co-60 3.8
 Cs-137 11.0

Sample Location Number	Recorded Activity		Unity Rule Analysis		
	Co-60	Cs-137	(Activity) / (DCGL)		Ratio Sum
	pCi/g	pCi/g	Co-60	C-137	
01	0.060	0.035	0.016	0.003	0.019
02	0.067	0.029	0.018	0.003	0.020
03	0.068	0.064	0.018	0.006	0.024
04	0.070	0.055	0.018	0.005	0.023
05	0.072	0.045	0.019	0.004	0.023
06	0.062	0.062	0.016	0.006	0.022
07	0.069	0.075	0.018	0.007	0.025
08	0.087	0.042	0.023	0.004	0.027
09	0.087	0.052	0.023	0.005	0.028
10	0.072	0.041	0.019	0.004	0.023
11	0.073	0.074	0.019	0.007	0.026
12	0.062	0.074	0.016	0.007	0.023
13	0.068	0.052	0.018	0.005	0.023
14	0.073	0.106	0.019	0.010	0.029
15	0.060	0.089	0.016	0.008	0.024
16	0.070	0.026	0.018	0.002	0.021
17	0.069	0.030	0.018	0.003	0.021
18	0.063	0.041	0.017	0.004	0.020
19	0.071	0.061	0.019	0.006	0.024
20	0.066	0.063	0.017	0.006	0.023
21	0.042	0.073	0.011	0.007	0.018
22	0.066	0.086	0.017	0.008	0.025
23	0.076	0.069	0.020	0.006	0.026
24	0.053	0.058	0.014	0.005	0.019
25	0.077	0.055	0.020	0.005	0.025
26	0.088	0.091	0.023	0.008	0.031
27	0.078	0.114	0.021	0.010	0.031
28	0.081	0.060	0.021	0.005	0.027
29	0.049	1.340	0.013	0.122	0.135
30	0.052	0.867	0.014	0.079	0.093
31	0.077	0.050	0.020	0.005	0.025
Minimum	0.042	0.026	0.011	0.002	0.018
Maximum	0.088	1.340	0.023	0.122	0.135
Median	0.069	0.061	0.018	0.006	0.024
Mean	0.069	0.128	0.018	0.012	0.030
Std. Dev.	0.011	0.268	0.003	0.024	0.023

Conclusion:

All samples pass unity rule requirement; survey unit meets site release criterion.

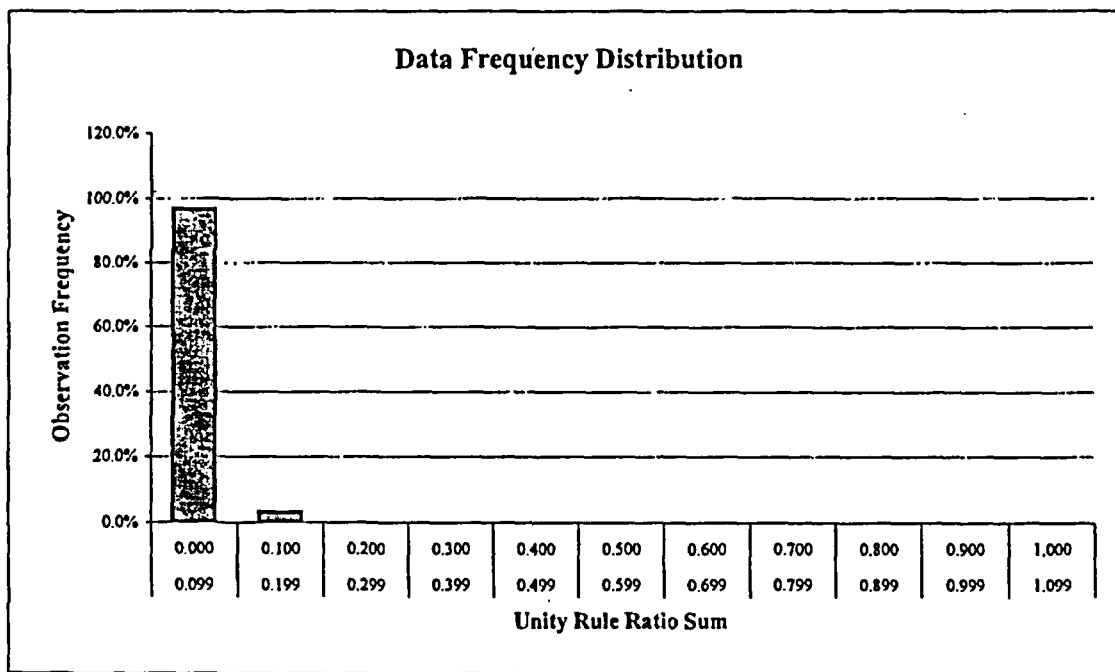
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045B
 Survey Unit Name: Tank Farm Yard Area #1

Classification: Class 2
 Size (m²): 2,743

Measurement Data Statistical Evaluation

Statistical Quantities Tests				Statistical Quantities	
Test	Calculated Value	Acceptance Criteria	Acceptable?	Range:	0.117
Range	0.117	0.116	See comment below	Median:	0.024
Median	0.252	0.500	Pass	Mean:	0.030
Mean	0.030	1.000	Pass	Std Dev:	0.023
Std Dev	0.023	0.200	Pass	Minimum:	0.018
All data less than DCGL; Sign statistical test not required.				Maximum:	0.135
				DCGL:	1.000



Plot Parameters	Interval	High	Low	Number	Frequency
# of measurements: 31	1	0.099	0.000	30	96.8%
# of intervals: 11	2	0.199	0.100	1	3.2%
Interval increment: 0.100	3	0.299	0.200	0	0.0%
Minimum: 0.000	4	0.399	0.300	0	0.0%
Maximum: 1.099	5	0.499	0.400	0	0.0%
	6	0.599	0.500	0	0.0%
	7	0.699	0.600	0	0.0%
	8	0.799	0.700	0	0.0%
	9	0.899	0.800	0	0.0%
	10	0.999	0.900	0	0.0%
	11	1.099	1.000	0	0.0%
	Total:			31	100%

Comment:
 Range failure is a test artifact due to a single measurement value exceeding 0.100 while the other 30 values are less than 0.100. All measurement values are valid, and accepted as representative of the survey unit.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045B
Survey Unit Name: Tank Farm Yard Area #1

Classification: Class 2
Size (m²): 2,743

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Gamma	Scan Coverage (%): 50
Measurement Units: Gross cpm	Investigation Level: 9,000
Minimum Value: 6,100	Maximum Value: 9,600

Discussion of Anomalous Measurement Data

The gross activity value of 9,000 cpm was used to identify areas that may have contained elevated volumetric residual radioactivity. A soil or gravel sample was collected at the location(s) that exceeded the gross activity value and the results reviewed to determine whether residual radioactivity exceeded the DCGL and required an investigation.

Investigation Summary

Reason for Investigation: A single area identified by scan measurement exceeded investigation level.

Elevated Measurement Comparison (EMC):

DCGL (Investigation Level):	11
Measurement Units:	pCi/g ¹³⁷ Cs
Maximum Value:	27.2
Size of Area Exceeding DCGL (m²):	1.1
Size of Survey Unit (m²):	2,743
Survey Unit Area >DCGL (%):	0.04
EMC Value:	N/A

Action Taken: Remediated localized area of subsurface contamination and subdivided area out into a newly created Class 1 survey unit (G51045F). Deleted scan and static measurements that are no longer in survey unit and obtained replacement measurements.

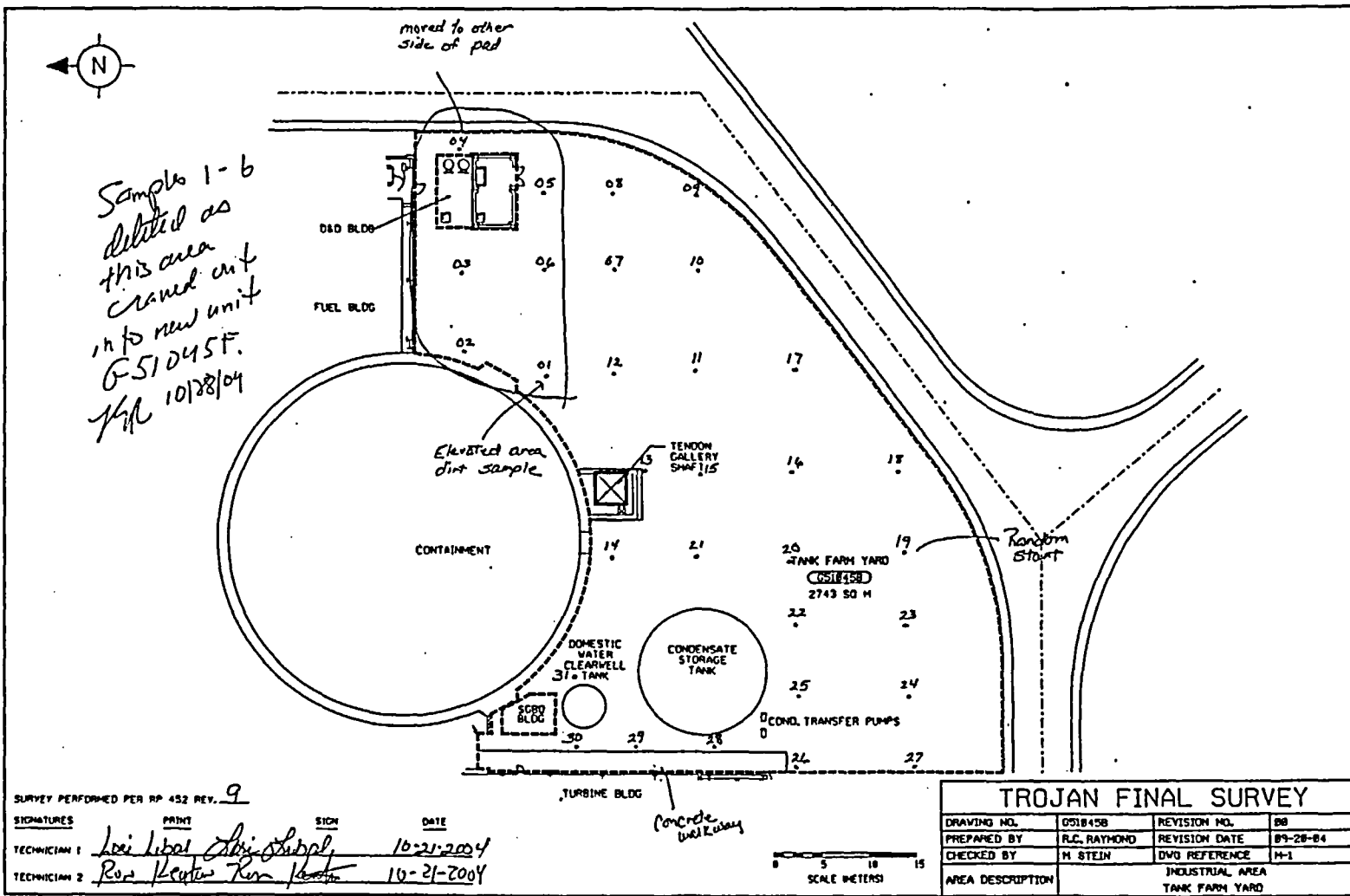
Basis for Action Taken: Small, localized area of elevated radioactivity exceeded the DCGL and required reclassification to Class 1.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045B
 Survey Unit Name: Tank Farm Yard Area #1

Classification: Class 2
 Size (m²): 2,743

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045C
 Survey Unit Name: Southeast Industrial Yard Area #1

Classification: Class 1
 Size (m²): 1,488

Unity Rule Evaluations

DCGL: pCi/g Unity Rule: ratio sum < 1.0
 Co-60 3.8
 Cs-137 11.0

Sample Location Number	Recorded Activity		Unity Rule Analysis		
	Co-60 pCi/g	Cs-137 pCi/g	(Activity) / (DCGL)		Ratio Sum
			Co-60	C-137	
01	0.082	0.066	0.022	0.006	0.028
02	0.087	0.079	0.023	0.007	0.030
03	0.094	0.085	0.025	0.008	0.032
04	0.074	0.021	0.019	0.002	0.021
05	0.061	0.079	0.016	0.007	0.023
06	0.073	0.046	0.019	0.004	0.023
07	0.061	0.069	0.016	0.006	0.022
08	0.066	0.018	0.017	0.002	0.019
09	0.062	0.112	0.016	0.010	0.026
10	0.061	0.074	0.016	0.007	0.023
11	0.081	0.038	0.021	0.003	0.025
12	0.057	0.060	0.015	0.005	0.020
13	0.068	0.037	0.018	0.003	0.021
14	0.059	0.069	0.016	0.006	0.022
15	0.075	0.045	0.020	0.004	0.024
16	0.072	0.063	0.019	0.006	0.025
17	0.085	0.073	0.022	0.007	0.029
18	0.074	0.075	0.019	0.007	0.026
19	0.076	0.067	0.020	0.006	0.026
20	0.054	0.048	0.014	0.004	0.019
21	0.079	0.071	0.021	0.006	0.027
22	0.067	0.068	0.018	0.006	0.024
23	0.069	0.067	0.018	0.006	0.024
24	0.048	0.042	0.013	0.004	0.016
25	0.065	0.055	0.017	0.005	0.022
26	0.057	0.065	0.015	0.006	0.021
27	0.071	0.064	0.019	0.006	0.025
28	0.064	0.033	0.017	0.003	0.020
29	0.060	0.043	0.016	0.004	0.020
30	0.066	0.073	0.017	0.007	0.024
Minimum	0.048	0.018	0.013	0.002	0.016
Maximum	0.094	0.112	0.025	0.010	0.032
Median	0.068	0.066	0.018	0.006	0.024
Mean	0.069	0.060	0.018	0.005	0.024
Std. Dev.	0.011	0.020	0.003	0.002	0.004

Conclusion:

All samples pass unity rule requirement; survey unit meets site release criterion.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045C
 Survey Unit Name: Southeast Industrial Yard Area #1

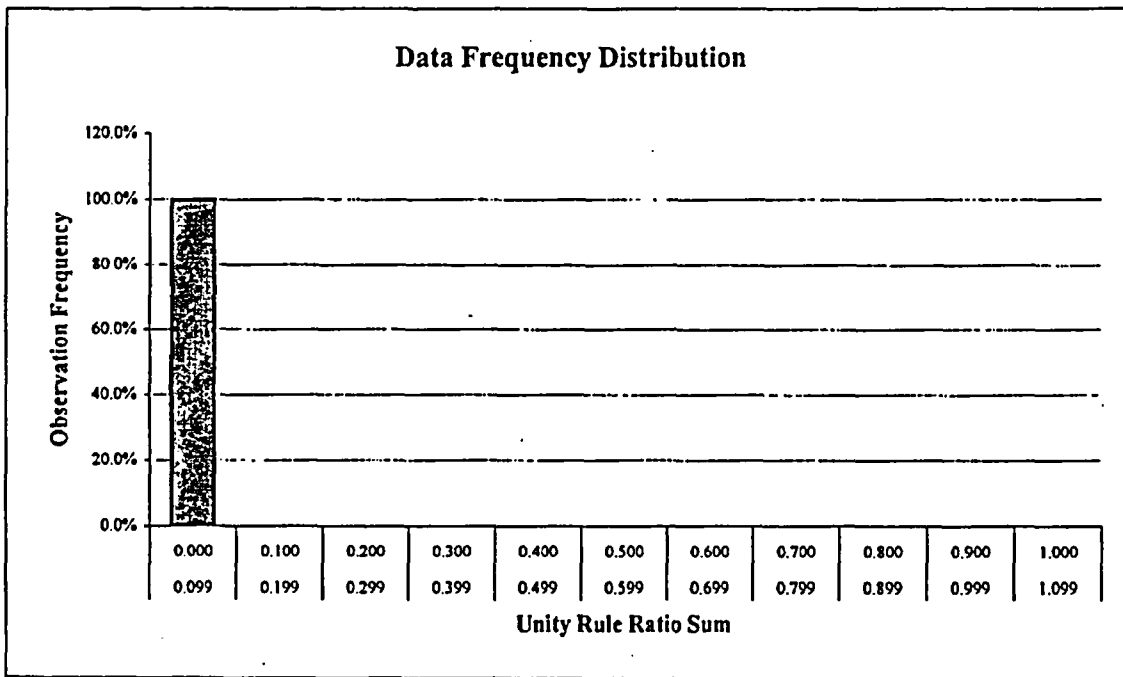
Classification: Class 1
 Size (m²): 1,488

Measurement Data Statistical Evaluation

Statistical Quantities Tests			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	0.016	0.018	Pass
Median	0.002	0.500	Pass
Mean	0.024	1.000	Pass
Std Dev	0.004	0.200	Pass

Statistical Quantities	
Range:	0.016
Median:	0.024
Mean:	0.024
Std Dev:	0.004
Minimum:	0.016
Maximum:	0.032
DCGL:	1.000

All data less than DCGL; Sign statistical test not required.



Plot Parameters	
# of measurements:	30
# of intervals:	11
Interval increment:	0.100
Minimum:	0.000
Maximum:	1.099

Interval	High	Low	Number	Frequency
1	0.099	0.000	30	100.0%
2	0.199	0.100	0	0.0%
3	0.299	0.200	0	0.0%
4	0.399	0.300	0	0.0%
5	0.499	0.400	0	0.0%
6	0.599	0.500	0	0.0%
7	0.699	0.600	0	0.0%
8	0.799	0.700	0	0.0%
9	0.899	0.800	0	0.0%
10	0.999	0.900	0	0.0%
11	1.099	1.000	0	0.0%
Total:			30	100%

Comment:
None

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045C

Classification: Class 1

Survey Unit Name: Southeast Industrial Yard Area #1

Size (m²): 1,488

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Gamma

Scan Coverage (%): 100

Measurement Units: Gross cpm

Investigation Level: 9,000

Minimum Value: 6,200

Maximum Value: 7,800

Discussion of Anomalous Measurement Data

The gross activity value of 9,000 cpm was used to identify areas that may have contained elevated volumetric residual radioactivity. A soil or gravel sample was collected at the location(s) that exceeded the gross activity value and the results reviewed to determine whether residual radioactivity exceeded the DCGL and required an investigation.

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

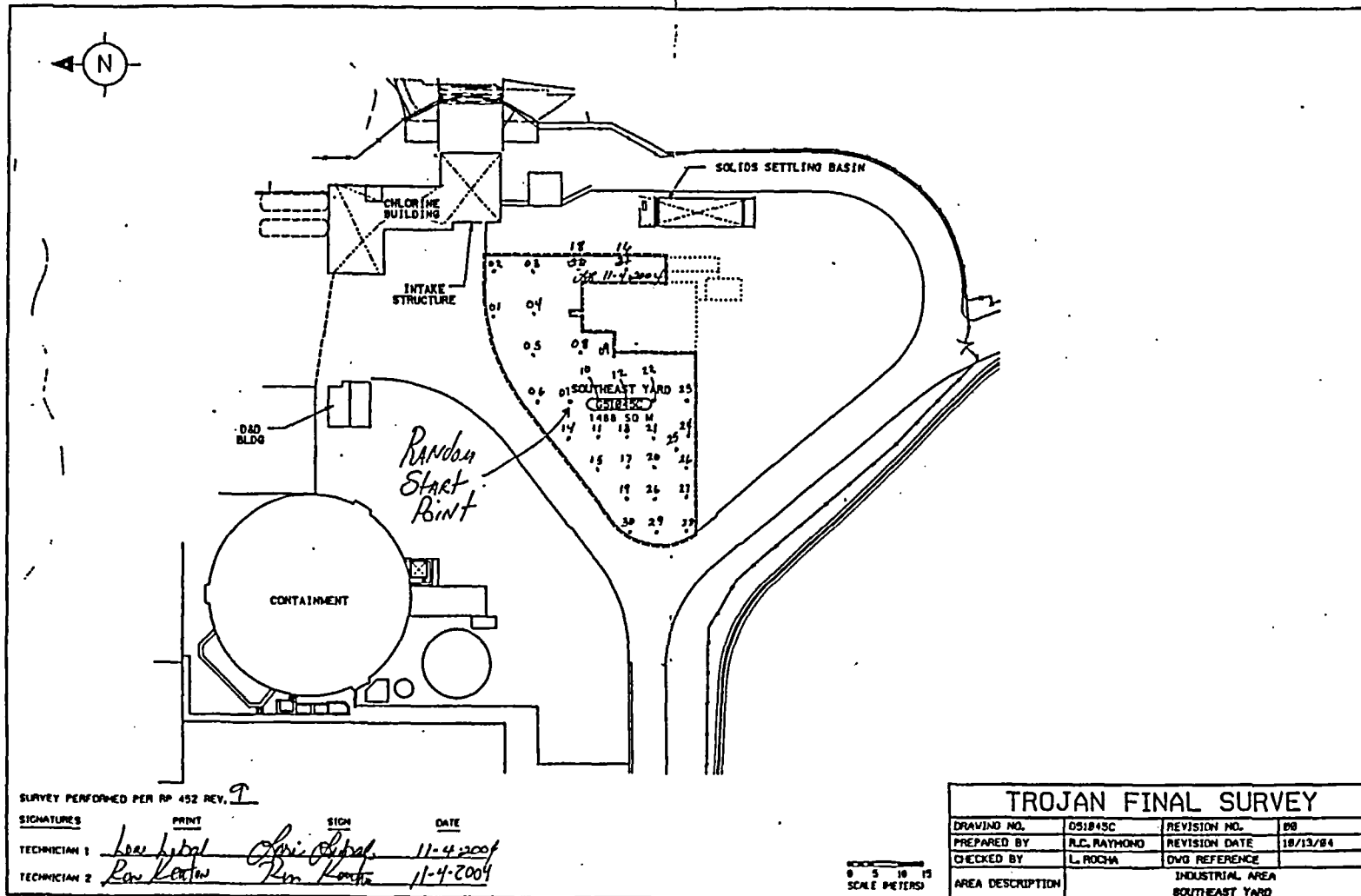
Survey Unit ID Code: G51045C

Survey Unit Name: Southeast Industrial Yard Area #1

Classification: Class 1

Size (m²): 1,488

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045D
 Survey Unit Name: Southeast Industrial Yard Area #2

Classification: Class 1
 Size (m²): 1,551

Unity Rule Evaluations

DCGL: pCi/g Unity Rule: ratio sum < 1.0
 Co-60 3.8
 Cs-137 11.0

Sample Location Number	Recorded Activity		Unity Rule Analysis		
	Co-60	Cs-137	(Activity) / (DCGL)		Ratio Sum
	pCi/g	pCi/g	Co-60	C-137	
01	0.077	0.077	0.020	0.007	0.027
02	0.077	0.076	0.020	0.007	0.027
03	0.060	0.072	0.016	0.007	0.022
04	0.069	0.034	0.018	0.003	0.021
05	0.059	0.038	0.016	0.003	0.019
06	0.069	0.066	0.018	0.006	0.024
07	0.068	0.054	0.018	0.005	0.023
08	0.066	0.063	0.017	0.006	0.023
09	0.064	0.070	0.017	0.006	0.023
10	0.059	0.033	0.016	0.003	0.019
11	0.084	0.076	0.022	0.007	0.029
12	0.060	0.073	0.016	0.007	0.022
13	0.074	0.065	0.019	0.006	0.025
14	0.078	0.075	0.021	0.007	0.027
15	0.056	0.025	0.015	0.002	0.017
16	0.073	0.072	0.019	0.007	0.026
17	0.065	0.065	0.017	0.006	0.023
18	0.072	0.082	0.019	0.007	0.026
19	0.066	0.105	0.017	0.010	0.027
20	0.055	0.070	0.014	0.006	0.021
21	0.056	0.046	0.015	0.004	0.019
22	0.064	0.019	0.017	0.002	0.019
23	0.064	0.019	0.017	0.002	0.019
24	0.068	0.064	0.018	0.006	0.024
25	0.064	0.068	0.017	0.006	0.023
26	0.063	0.066	0.017	0.006	0.023
27	0.065	0.019	0.017	0.002	0.019
28	0.077	0.068	0.020	0.006	0.026
29	0.053	0.067	0.014	0.006	0.020
30	0.074	0.065	0.019	0.006	0.025
Minimum	0.053	0.019	0.014	0.002	0.017
Maximum	0.084	0.105	0.022	0.010	0.029
Median	0.066	0.066	0.017	0.006	0.023
Mean	0.067	0.060	0.018	0.005	0.023
Std. Dev.	0.008	0.021	0.002	0.002	0.003

Conclusion:

All samples pass unity rule requirement; survey unit meets site release criterion.

FINAL SURVEY RESULTS SUMMARY

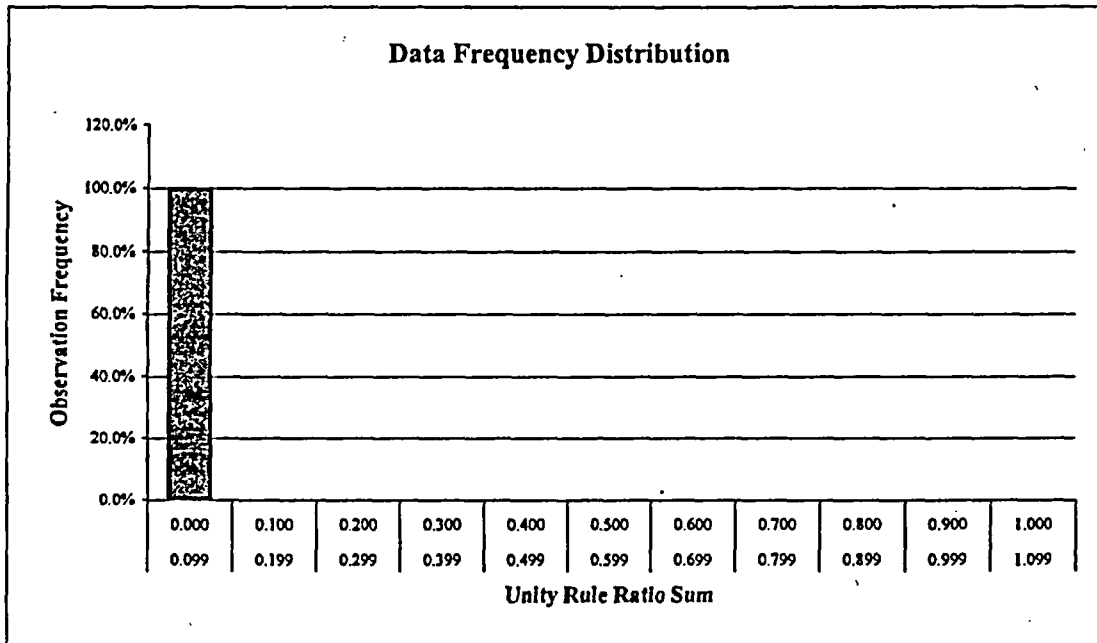
Survey Unit ID Code: G51045D
 Survey Unit Name: Southeast Industrial Yard Area #2

Classification: Class 1
 Size (m²): 1,551

Measurement Data Statistical Evaluation

Statistical Quantities Tests				Statistical Quantities	
Test	Calculated Value	Acceptance Criteria	Acceptable?		
Range	0.012	0.016	Pass	Range:	0.012
Median	0.016	0.500	Pass	Median:	0.023
Mean	0.023	1.000	Pass	Mean:	0.023
Std Dev	0.003	0.200	Pass	Std Dev:	0.003
				Minimum:	0.017
				Maximum:	0.029
				DCGL:	1.000

All data less than DCGL; Sign statistical test not required.



Plot Parameters		Interval	High	Low	Number	Frequency
# of measurements:	30	1	0.099	0.000	30	100.0%
# of intervals:	11	2	0.199	0.100	0	0.0%
Interval increment:	0.100	3	0.299	0.200	0	0.0%
Minimum:	0.000	4	0.399	0.300	0	0.0%
Maximum:	1.099	5	0.499	0.400	0	0.0%
		6	0.599	0.500	0	0.0%
		7	0.699	0.600	0	0.0%
		8	0.799	0.700	0	0.0%
		9	0.899	0.800	0	0.0%
		10	0.999	0.900	0	0.0%
		11	1.099	1.000	0	0.0%
					Total:	100%

Comment:
None

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045D

Classification: Class 1

Survey Unit Name: Southeast Industrial Yard Area #2

Size (m²): 1,551

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Gamma	Scan Coverage (%): 100
Measurement Units: Gross cpm	Investigation Level: 9,000
Minimum Value: 6,300	Maximum Value: 7,600

Discussion of Anomalous Measurement Data

The gross activity value of 9,000 cpm was used to identify areas that may have contained elevated volumetric residual radioactivity. A soil or gravel sample was collected at the location(s) that exceeded the gross activity value and the results reviewed to determine whether residual radioactivity exceeded the DCGL and required an investigation.

Investigation Summary

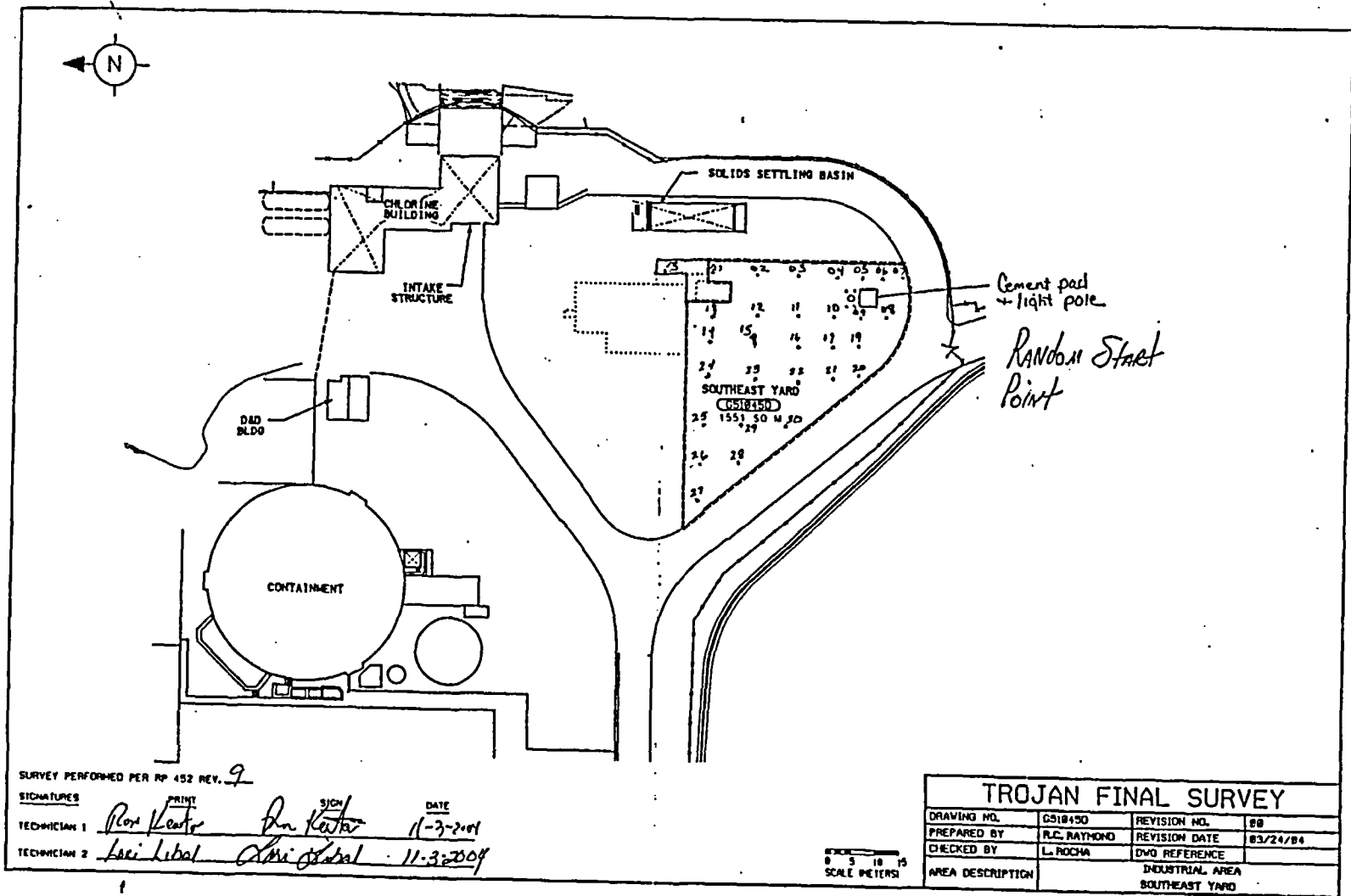
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045D
 Survey Unit Name: Southeast Industrial Yard Area #2

Classification: Class 1
 Size (m²): 1,551

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 9

SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	Ron Keator	Ron Keator	11-3-2004
TECHNICIAN 2	Laci Libal	Laci Libal	11-3-2004

TROJAN FINAL SURVEY			
DRAWING NO.	G51045D	REVISION NO.	00
PREPARED BY	R.C. RAYMOND	REVISION DATE	03/24/04
CHECKED BY	L. ROCHA	DWG REFERENCE	
AREA DESCRIPTION	INDUSTRIAL AREA SOUTHEAST YARD		

0 5 10 15
SCALE METERS

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045E

Classification: Class 2

Survey Unit Name: Southeast Industrial Yard Area #3

Size (m²): 4,856

Unity Rule Evaluations

-- DCGL: pCi/g Unity Rule: ratio sum < 1.0
 Co-60 3.8
 Cs-137 11.0

Sample Location Number	Recorded Activity		Unity Rule Analysis		
	Co-60	Cs-137	(Activity) / (DCGL)		Ratio Sum
	pCi/g	pCi/g	Co-60	C-137	
01	0.074	0.069	0.019	0.006	0.026
02	0.070	0.062	0.018	0.006	0.024
03	0.062	0.060	0.016	0.005	0.022
04	0.060	0.063	0.016	0.006	0.022
05	0.055	0.063	0.014	0.006	0.020
06	0.079	0.068	0.021	0.006	0.027
07	0.070	0.050	0.018	0.005	0.023
08	0.069	0.070	0.018	0.006	0.025
09	0.054	0.062	0.014	0.006	0.020
10	0.051	0.069	0.013	0.006	0.020
11	0.084	0.086	0.022	0.008	0.030
12	0.062	0.062	0.016	0.006	0.022
13	0.063	0.066	0.017	0.006	0.023
14	0.069	0.070	0.018	0.006	0.025
15	0.069	0.033	0.018	0.003	0.021
16	0.054	0.024	0.014	0.002	0.016
17	0.068	0.074	0.018	0.007	0.025
18	0.068	0.082	0.018	0.007	0.025
19	0.061	0.093	0.016	0.008	0.025
20	0.085	0.040	0.022	0.004	0.026
21	0.056	0.076	0.015	0.007	0.022
22	0.059	0.063	0.016	0.006	0.021
23	0.067	0.028	0.018	0.003	0.020
24	0.082	0.080	0.022	0.007	0.029
25	0.060	0.068	0.016	0.006	0.022
26	0.062	0.026	0.016	0.002	0.019
27	0.094	0.075	0.025	0.007	0.032
28	0.061	0.042	0.016	0.004	0.020
29	0.069	0.041	0.018	0.004	0.022
30	0.069	0.053	0.018	0.005	0.023
31	0.073	0.085	0.019	0.008	0.027
32	0.064	0.064	0.017	0.006	0.023
33	0.064	0.030	0.017	0.003	0.020
34	0.067	0.074	0.018	0.007	0.024
35	0.067	0.056	0.018	0.005	0.023
36	0.067	0.062	0.018	0.006	0.023
37	0.078	0.072	0.021	0.007	0.027
38	0.081	0.076	0.021	0.007	0.028
39	0.058	0.059	0.015	0.005	0.021
Minimum	0.051	0.024	0.013	0.002	0.016
Maximum	0.094	0.093	0.025	0.008	0.032
Median	0.067	0.063	0.018	0.006	0.023
Mean	0.067	0.061	0.018	0.006	0.023
Std. Dev.	0.010	0.017	0.003	0.002	0.003

Conclusion:

All samples pass unity rule requirement; survey unit meets site release criterion.

FINAL SURVEY RESULTS SUMMARY

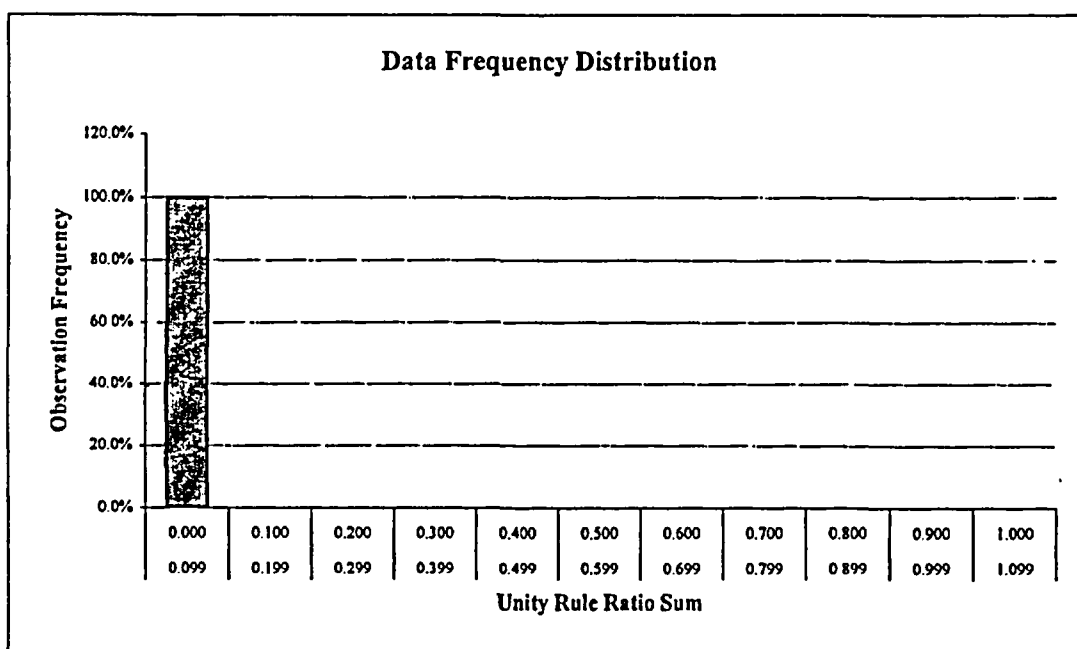
Survey Unit ID Code: G51045E
 Survey Unit Name: Southeast Industrial Yard Area #3

Classification: Class 2
 Size (m²): 4,856

Measurement Data Statistical Evaluation

Statistical Quantities Tests				Statistical Quantities	
Test	Calculated Value	Acceptance Criteria	Acceptable?		
Range	0.015	0.016	Pass	Range:	0.015
Median	0.176	0.500	Pass	Median:	0.023
Mean	0.023	1.000	Pass	Mean:	0.023
Std Dev	0.003	0.200	Pass	Std Dev:	0.003
				Minimum:	0.016
				Maximum:	0.032
				DCGL:	1.000

All data less than DCGL; Sign statistical test not required.



Plot Parameters		Interval	High	Low	Number	Frequency
# of measurements:	39	1	0.099	0.000	39	100.0%
# of intervals:	11	2	0.199	0.100	0	0.0%
Interval increment:	0.100	3	0.299	0.200	0	0.0%
Minimum:	0.000	4	0.399	0.300	0	0.0%
Maximum:	1.099	5	0.499	0.400	0	0.0%
		6	0.599	0.500	0	0.0%
		7	0.699	0.600	0	0.0%
		8	0.799	0.700	0	0.0%
		9	0.899	0.800	0	0.0%
		10	0.999	0.900	0	0.0%
		11	1.099	1.000	0	0.0%
					Total:	100%

Comment:
None

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045E

Classification: Class 2

Survey Unit Name: Southeast Industrial Yard Area #3

Size (m²): 4,856

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Gamma

Scan Coverage (%): 20

Measurement Units: Gross cpm

Investigation Level: 9,000

Minimum Value: 6,000

Maximum Value: 9,700

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 5

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 856

Maximum Value: 2,222

Measurement Type: Surface Static Beta

Number of Measurements: 60

Measurement Units: dpm/100cm²

Investigation Level: 21,000

Minimum Value: 721

Maximum Value: 1,208

Measurement Type: Removable Beta

Number of Measurements: 60

Measurement Units: dpm/100cm²

Investigation Level: 2,100

Minimum Value: 33

Maximum Value: 82

Discussion of Anomalous Measurement Data

The gross activity value of 9,000 cpm was used to identify areas that may have contained elevated volumetric residual radioactivity. A soil or gravel sample was collected at the location(s) that exceeded the gross activity value and the results reviewed to determine whether residual radioactivity exceeded the DCGL and required an investigation.

Investigation Summary

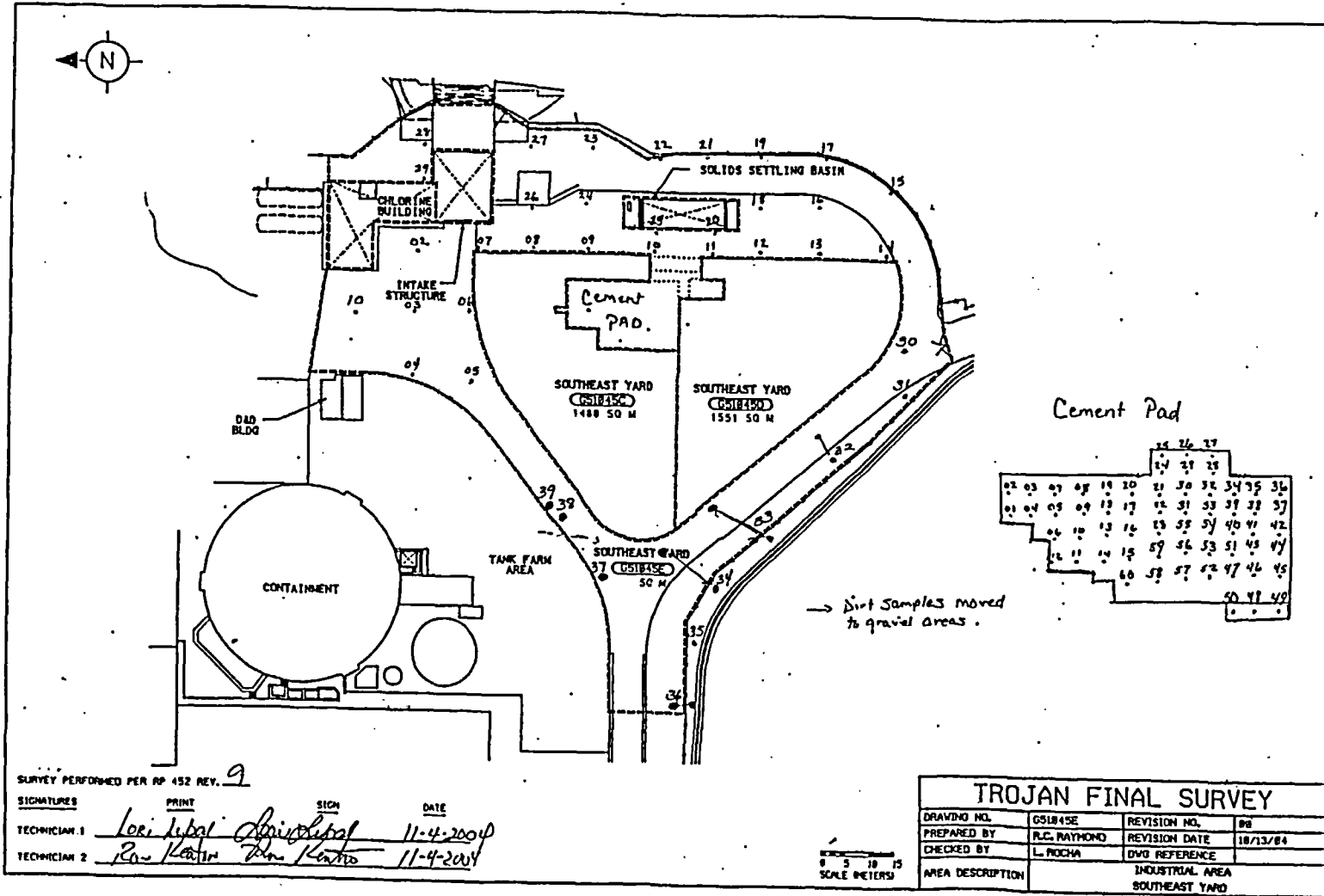
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045E
 Survey Unit Name: Southeast Industrial Yard Area #3

Classification: Class 2
 Size (m²): 4,856

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045F
 Survey Unit Name: Tank Farm Yard Area #2

Classification: Class 1
 Size (m²): 300

Unity Rule Evaluation

Unity Rule: ratio sum < 1.0

Co-60: 3.8
 Cs-137: 11.0

Location Number	Activity, pCi/g		Unity = (pCi/g) / DCGL		Ratio Sum
	Co-60	Cs-137	Co-60	C-137	
01	0.214	9.866	0.056	0.897	0.953
02	0.076	0.060	0.020	0.005	0.025
03	0.060	0.144	0.016	0.013	0.029
04	0.061	0.021	0.016	0.002	0.018
05	0.061	0.061	0.016	0.006	0.022
06	0.066	0.028	0.017	0.003	0.020
07	0.082	0.085	0.022	0.008	0.029
08	0.076	0.288	0.020	0.026	0.046
09	0.085	0.069	0.022	0.006	0.029
10	0.070	0.059	0.018	0.005	0.024
11	0.086	0.074	0.023	0.007	0.029
12	0.069	0.075	0.018	0.007	0.025
13	0.067	0.041	0.018	0.004	0.021
14	0.063	0.065	0.017	0.006	0.022
15	0.076	0.069	0.020	0.006	0.026
16	0.066	0.066	0.017	0.006	0.023
17	0.067	0.067	0.018	0.006	0.024
18	0.075	0.078	0.020	0.007	0.027
19	0.056	0.064	0.015	0.006	0.021
20	0.053	0.058	0.014	0.005	0.019
21	0.050	0.064	0.013	0.006	0.019
22	0.080	0.086	0.021	0.008	0.029
23	0.064	0.071	0.017	0.006	0.023
24	0.066	0.056	0.017	0.005	0.022
25	0.075	0.059	0.020	0.005	0.025
26	0.072	0.067	0.019	0.006	0.025
27	0.061	0.062	0.016	0.006	0.022
28	0.068	0.072	0.018	0.007	0.024
29	0.057	0.060	0.015	0.005	0.020
30	0.066	0.067	0.017	0.006	0.023
31	0.062	0.065	0.016	0.006	0.022
32	0.073	0.072	0.019	0.007	0.026
33	0.064	0.060	0.017	0.005	0.022
34	0.064	0.064	0.017	0.006	0.023
35	0.077	0.021	0.020	0.002	0.022
36	0.075	0.068	0.020	0.006	0.026
37	0.063	0.055	0.017	0.005	0.022
38	0.020	0.020	0.005	0.002	0.007
39	0.069	0.153	0.018	0.014	0.032
40	0.070	0.056	0.018	0.005	0.024
41	0.074	0.234	0.019	0.021	0.041
Minimum	0.020	0.020	0.005	0.002	0.007
Maximum	0.214	9.866	0.056	0.897	0.953
Median	0.067	0.065	0.018	0.006	0.024
Mean	0.071	0.314	0.019	0.029	0.047
Std. Dev.	0.025	1.530	0.007	0.139	0.145

Conclusion:

All samples pass unity rule requirement; survey unit meets site release criterion.

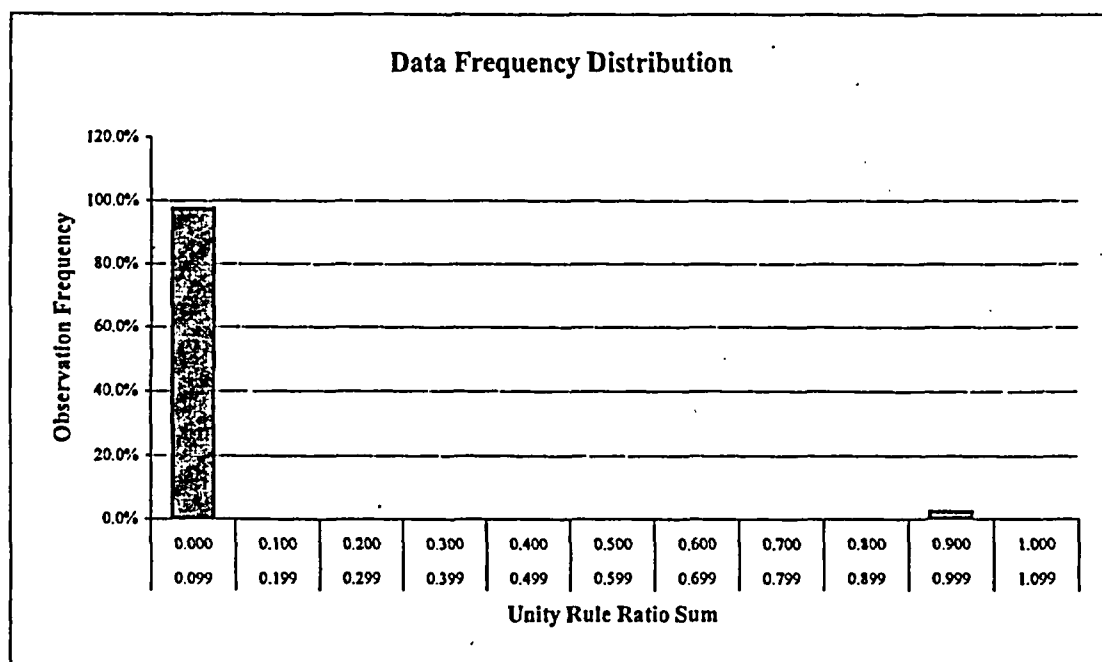
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045F
 Survey Unit Name: Tank Farm Yard Area #2

Classification: Class 1
 Size (m²): 300

Measurement Data Statistical Evaluation

Statistical Quantities Tests				Statistical Quantities	
Test	Calculated Value	Acceptance Criteria	Acceptable?		
Range	0.946	0.726	See comment below	Range:	0.946
Median	0.162	0.500	Pass	Median:	0.024
Mean	0.047	1.000	Pass	Mean:	0.047
Std Dev	0.145	0.200	Pass	Std Dev:	0.145
				Minimum:	0.007
				Maximum:	0.953
All data less than DCGL; Sign statistical test not required.				DCGL:	1.000



Plot Parameters		Interval	High	Low	Number	Frequency
# of measurements:	41	1	0.099	0.000	40	97.6%
# of intervals:	11	2	0.199	0.100	0	0.0%
Interval increment:	0.100	3	0.299	0.200	0	0.0%
Minimum:	0.000	4	0.399	0.300	0	0.0%
Maximum:	1.099	5	0.499	0.400	0	0.0%
		6	0.599	0.500	0	0.0%
		7	0.699	0.600	0	0.0%
		8	0.799	0.700	0	0.0%
		9	0.899	0.800	0	0.0%
		10	0.999	0.900	1	2.4%
		11	1.099	1.000	0	0.0%
					Total:	41 100%

Comment:
 Range failure is a test artifact due to a single measurement value exceeding 0.100 while the other 40 values are less than 0.100. All measurement values are valid, and accepted as representative of the survey unit.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045F
Survey Unit Name: Tank Farm Yard Area #2

Classification: Class 1
Size (m²): 300

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Gamma	Scan Coverage (%): 100
Measurement Units: Gross cpm	Investigation Level: 9,000
Minimum Value: 8,800	Maximum Value: 13,000

Discussion of Anomalous Measurement Data

The gross activity value of 9,000 cpm was used to identify areas that may have contained elevated volumetric residual radioactivity. A soil or gravel sample was collected at the location(s) that exceeded the gross activity value and the results reviewed to determine whether residual radioactivity exceeded the DCGL and required an investigation.

Investigation Summary

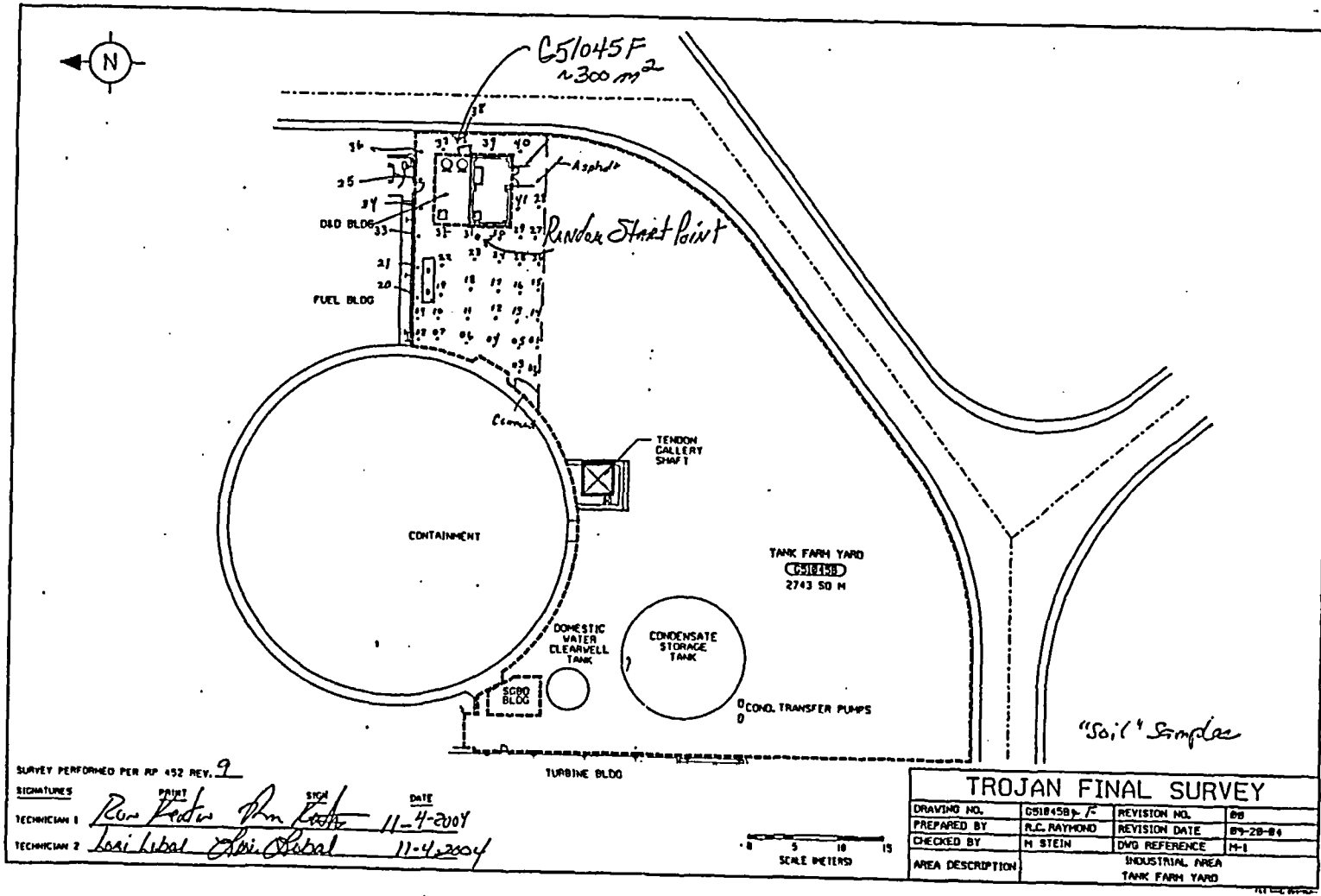
See investigation summary for Survey Unit G51045B.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045F
 Survey Unit Name: Tank Farm Yard Area #2

Classification: Class 1
 Size (m²): 300

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G52025A
 Survey Unit Name: Pebble Springs Yard

Classification: Class 3
 Size (m²): 7,810

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

Radionuclide : CS-137

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
6	30	pCi/GM	1.010e+001	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 1.800e-002
 Maximum Value : 7.000e-002
 Range : 5.200e-002
 Median : 4.100e-002
 Std. Deviation : 1.182e-002
 Mean : 4.333e-002
 95% UCL : 4.700e-002

Measurement Values

Location	Value	Location	Value
000001	6.000e-002	000018	4.100e-002
000002	5.600e-002	000019	4.400e-002
000003	4.200e-002	000020	3.700e-002
000004	4.800e-002	000021	4.100e-002
000005	3.700e-002	000022	3.500e-002
000006	2.000e-002	000023	1.800e-002
000007	4.000e-002	000024	7.000e-002
000008	5.400e-002	000025	6.800e-002
000009	4.400e-002	000026	6.700e-002
000010	4.100e-002	000027	4.100e-002
000011	4.400e-002	000028	3.500e-002
000012	4.200e-002	000029	3.900e-002
000013	4.200e-002	000030	3.800e-002
000014	4.100e-002		
000015	4.000e-002		
000016	3.400e-002		
000017	4.100e-002		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G52025A
 Survey Unit Name: Pebble Springs Yard

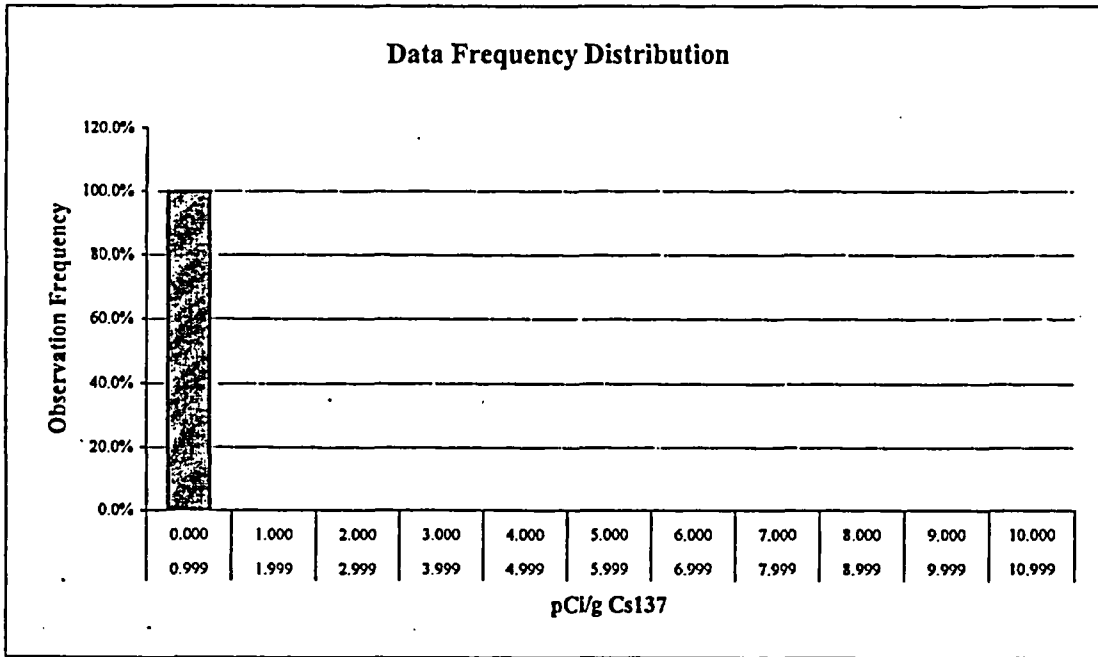
Classification: Class 3
 Size (m²): 7,810

Measurement Data Statistical Evaluation

Statistical Quantities Tests			
Test	Calculated Value	Acceptance Criteria	Acceptable?
Range	0.052	0.059	Pass
Median	0.197	0.500	Pass
Mean	0.043	10.100	Pass
Std Dev	0.012	2.020	Pass

Statistical Quantities	
Range:	0.052
Median:	0.041
Mean:	0.043
Std Dev:	0.012
Minimum:	0.018
Maximum:	0.070
DCGL:	10.100

All data less than DCGL; Sign statistical test not required.



Plot Parameters	
# of measurements:	30
# of intervals:	11
Interval increment:	1.000
Minimum:	0.000
Maximum:	10.999

Interval	High	Low	Number	Frequency
1	0.999	0.000	30	100.0%
2	1.999	1.000	0	0.0%
3	2.999	2.000	0	0.0%
4	3.999	3.000	0	0.0%
5	4.999	4.000	0	0.0%
6	5.999	5.000	0	0.0%
7	6.999	6.000	0	0.0%
8	7.999	7.000	0	0.0%
9	8.999	8.000	0	0.0%
10	9.999	9.000	0	0.0%
11	10.999	10.000	0	0.0%
Total:			30	100%

Comment:
None

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G52025A

Classification: Class 3

Survey Unit Name: Pebble Springs Yard

Size (m²): 7,810

Judgmental and Miscellaneous Measurement Data

No judgmental or miscellaneous data collected.

Discussion of Anomalous Measurement Data

Investigation Summary

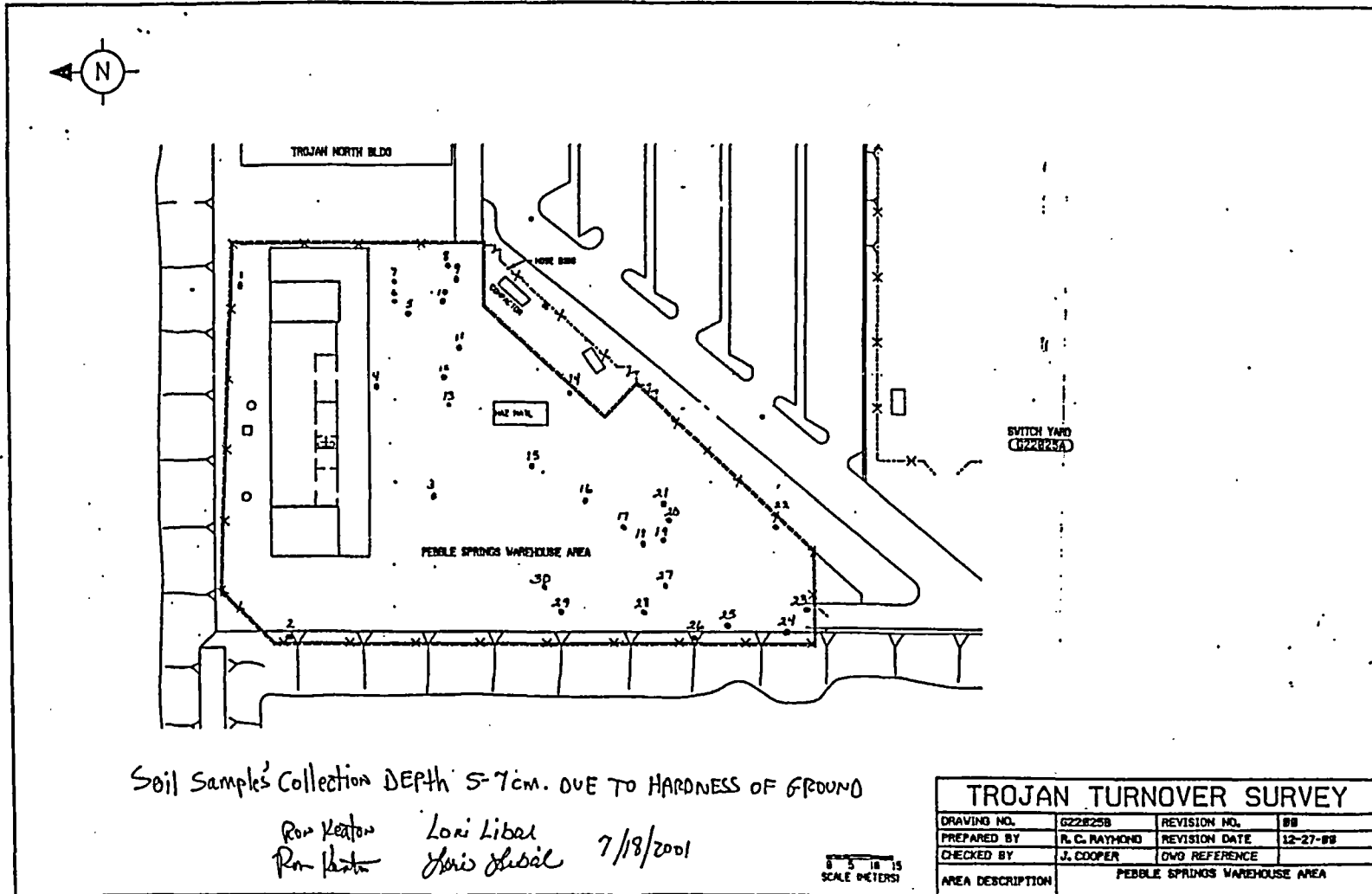
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G52025A
 Survey Unit Name: Pebble Springs Yard

Classification: Class 3
 Size (m²): 7,810

Static Measurement Locations Map



Soil Samples Collection DEPTH 5-7cm. DUE TO HARDNESS OF GROUND

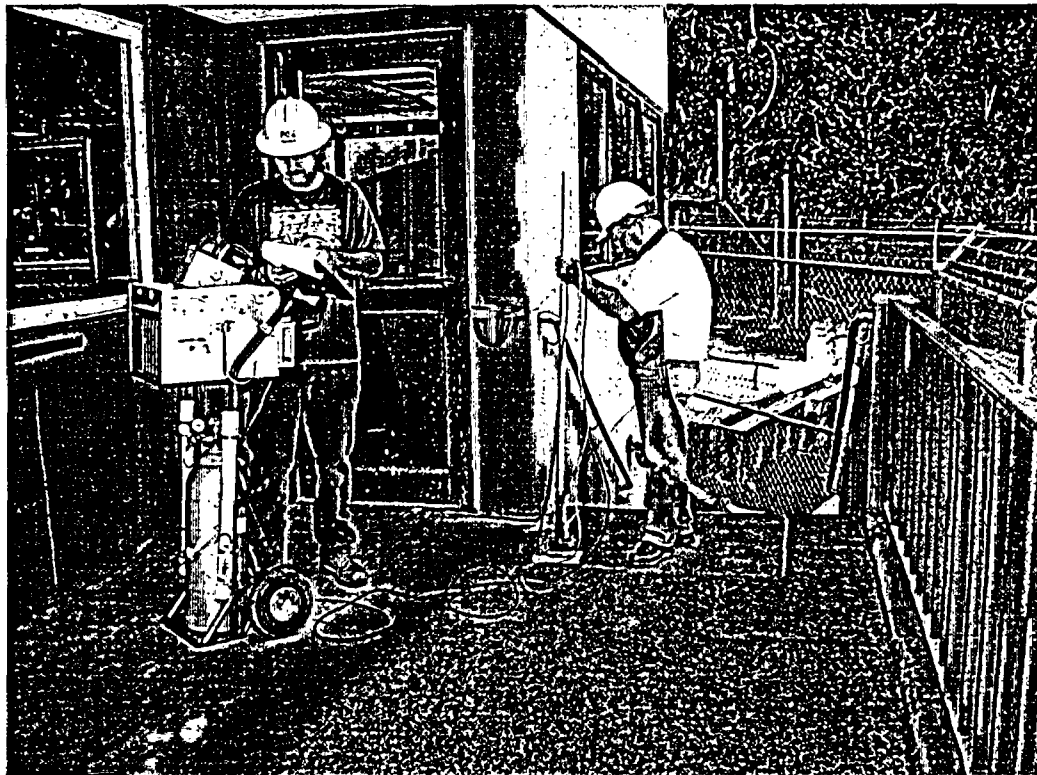
Ron Keaton Lori Libal
 Ron Keaton Chris Libal 7/18/2001

TROJAN TURNOVER SURVEY			
DRAWING NO.	G22025B	REVISION NO.	00
PREPARED BY	R. C. RAYMOND	REVISION DATE	12-27-00
CHECKED BY	J. COOPER	OVQ REFERENCE	
AREA DESCRIPTION	PEBBLE SPRINGS WAREHOUSE AREA		

Trojan Nuclear Plant

Supplement to Final Survey Report Support Facilities and Site Grounds

Volume 2 of 2



SUPPLEMENT TO APPENDIX B

SURVEY UNIT SUMMARY REPORTS –SUPPORT FACILITY EXTERIORS

<u>Survey Unit ID Code</u>	<u>Page(s)</u>
S11045A	B-2 through B-6
S12045A	B-7 and B-8
S12045B	B-9 through B-11
S12045C	B-12 through B-15
S12063A	B-16
S12063B	B-17
S12063C	B-18
S12116A	B-19
S12116B	B-20
S12157A	B-21
S13045A	B-22 through B-25
S13059A	B-26
S14045A	B-27 and B-28
S14045B	B-29 through B-31
S14045C	B-32 and B-33
S14063A	B-34
S14063B	B-35
S14138A	B-36
S15045A	B-37 and B-38
S15063A	B-39
S16045A	B-40 and B-41
S16063A	B-42
S17045A	B-43 through B-45
S21023A	B-46 through B-50
S32045B	B-51 through B-55
S33045A	B-56 through B-59
S34045A	B-60 through B-64
S35045A	B-65 through B-68
S36045A	B-69 and B-70
S36045B	B-71 through B-76
S36089A	B-77
S37045A	B-78 through B-80
S37074	B-81
S38045B	B-82 and B-83
S41029A	B-84 through B-87
S42045A	B-88 through B-91
S43020A	B-92 through B-94
S44045B	B-95 and B-96
S45026A	B-97 through B-100

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S11045A
 Survey Unit Name: Containment Building Walls,
 Buttresses, and Dome

Classification: Class 3
 Size (m²): 9,460

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	95	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 6.772e+002
 Maximum Value : 1.623e+003
 Range : 9.458e+002
 Median : 1.223e+003
 Std. Deviation : 1.708e+002
 Mean : 1.220e+003
 95% UCL : 1.249e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	1.248e+003	000018	1.092e+003	000035	1.248e+003
000002	1.276e+003	000019	1.185e+003	000036	1.178e+003
000003	1.066e+003	000020	1.302e+003	000037	1.280e+003
000004	1.133e+003	000021	1.254e+003	000038	1.159e+003
000005	1.236e+003	000022	1.269e+003	000039	8.443e+002
000006	1.079e+003	000023	1.241e+003	000040	9.093e+002
000007	1.096e+003	000024	1.120e+003	000041	1.036e+003
000008	1.189e+003	000025	1.069e+003	000042	1.080e+003
000009	1.209e+003	000026	1.237e+003	000043	1.176e+003
000010	1.170e+003	000027	1.315e+003	000044	1.162e+003
000011	1.197e+003	000028	1.353e+003	000045	1.159e+003
000012	1.223e+003	000029	1.324e+003	000046	8.948e+002
000013	1.176e+003	000030	1.232e+003	000047	9.788e+002
000014	1.112e+003	000031	1.289e+003	000048	6.772e+002
000015	1.391e+003	000032	1.152e+003	000049	6.989e+002
000016	1.247e+003	000033	1.322e+003	000050	1.175e+003
000017	1.139e+003	000034	1.430e+003	000051	1.183e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S11045A
Survey Unit Name: Containment Building Walls,
Buttresses, and Dome

Classification: Class 3
Size (m²): 9,460

Scan Measurement Data

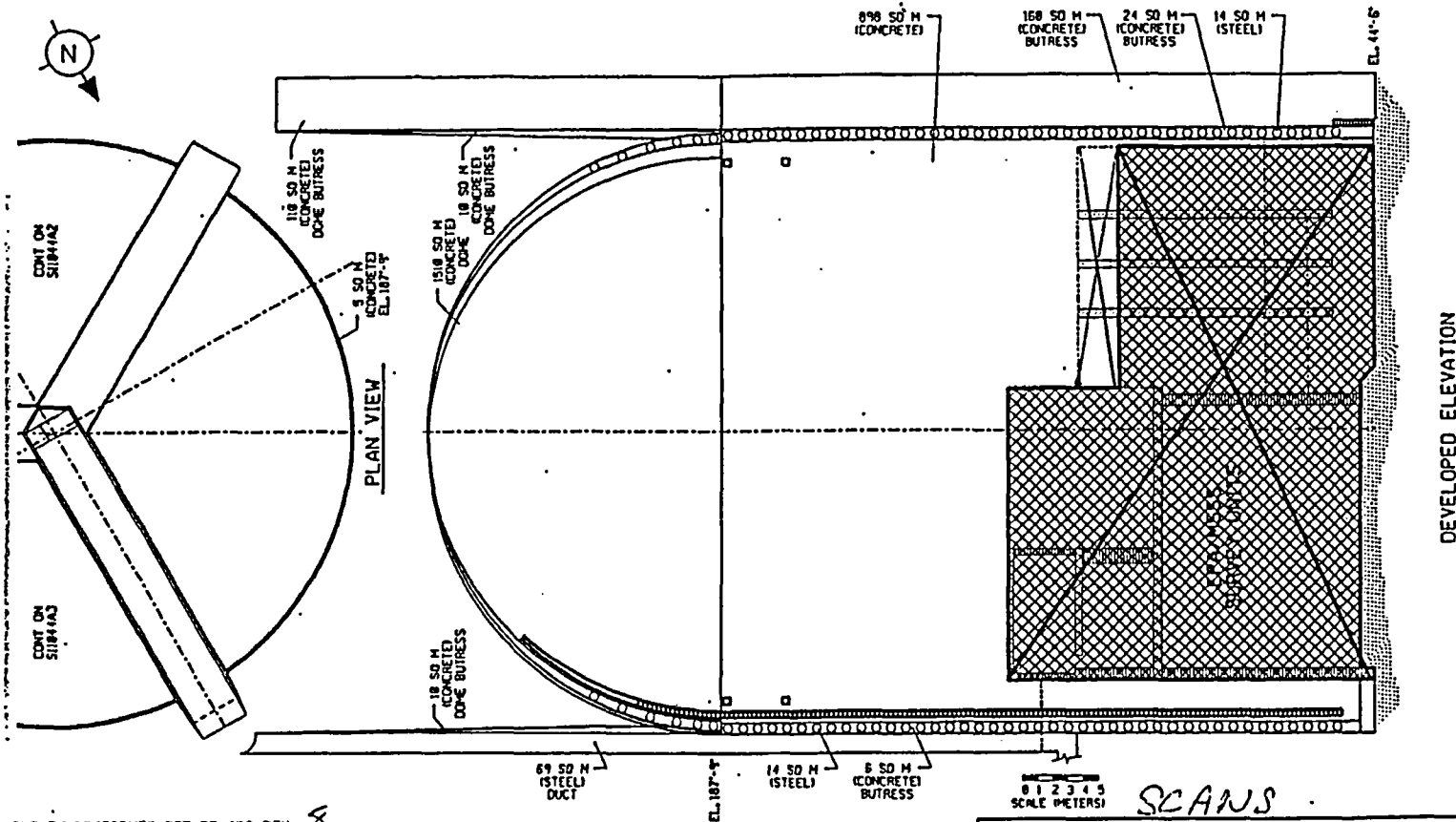
<u>Location</u>	<u>Value</u>
000052	1.159e+003
000053	1.264e+003
000054	1.156e+003
000055	1.111e+003
000056	1.157e+003
000057	1.145e+003
000058	1.239e+003
000059	1.221e+003
000060	1.234e+003
000061	1.239e+003
000062	1.295e+003
000063	1.253e+003
000064	1.244e+003
000065	1.125e+003
000066	1.214e+003
000067	1.166e+003
000068	1.326e+003
000069	9.003e+002
000070	1.146e+003
000071	1.319e+003
000072	1.092e+003
000073	1.321e+003
000074	1.228e+003
000075	1.170e+003
000076	1.160e+003
000077	8.759e+002
000078	1.137e+003
000079	1.484e+003
000080	1.262e+003
000081	1.497e+003
000082	1.516e+003
000083	1.549e+003
000084	1.457e+003
000085	1.430e+003
000086	1.384e+003
000087	1.446e+003
000088	1.471e+003
000089	1.397e+003
000090	1.565e+003
000091	1.424e+003
000092	1.623e+003
000093	1.344e+003
000094	1.464e+003
000095	1.464e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S11045A
 Survey Unit Name: Containment Building Walls, Buttresses, and Dome

Classification: Class 3
 Size (m²): 9,460

Scan Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 8

SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	Mac Far	[Signature]	8-16-2003
TECHNICIAN 2	Lori Lubal	[Signature]	8-6-2003

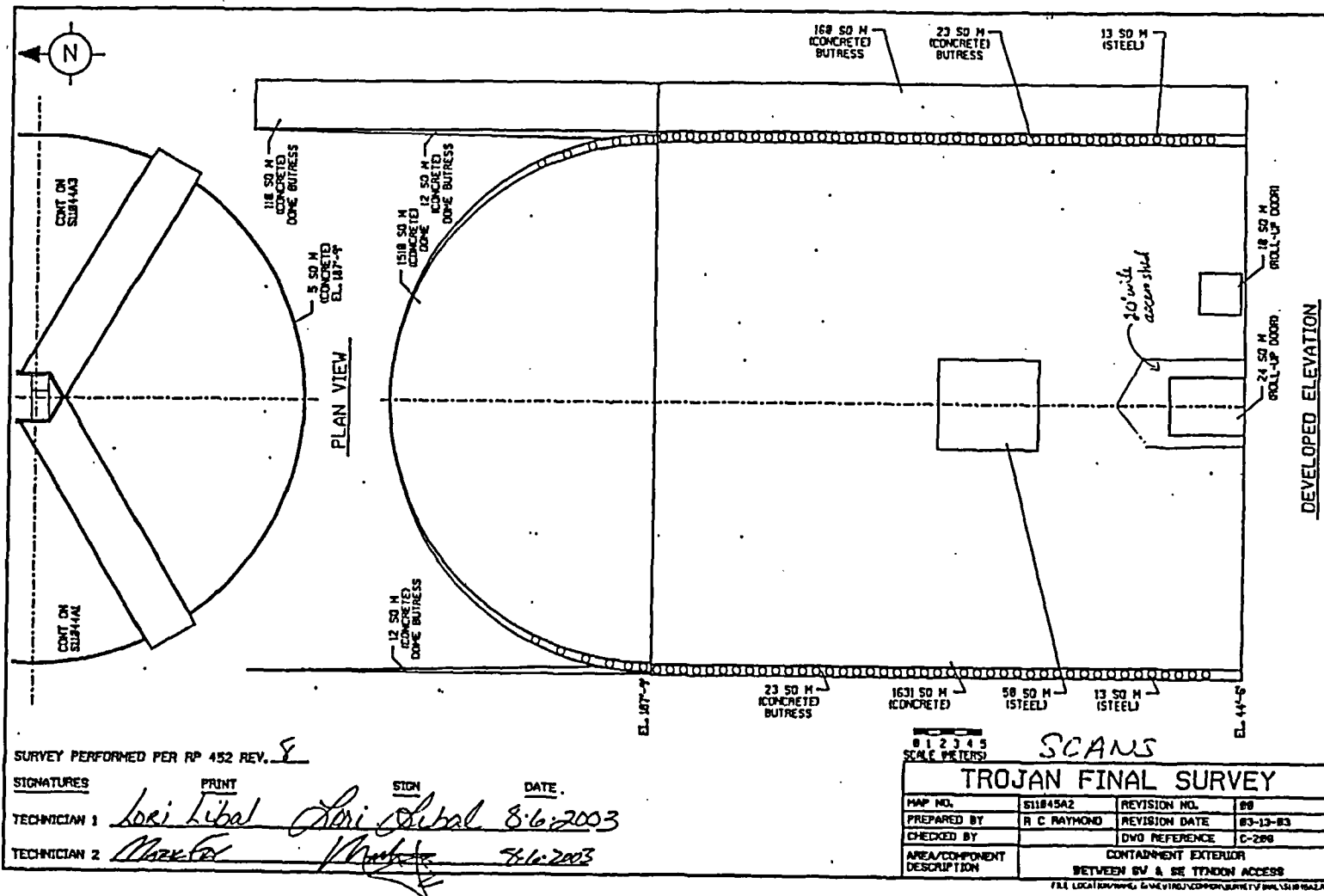
TROJAN FINAL SURVEY			
MAP NO.	S11045A1	REVISION NO.	00
PREPARED BY	R C RAYMOND	REVISION DATE	03-13-03
CHECKED BY		DWG REFERENCE	C-206
AREA/EQUIPMENT DESCRIPTION	CONTAINMENT EXTERIOR BETWEEN N & SW TENDON ACCESS		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S11045A
 Survey Unit Name: Containment Building Walls, Buttresses, and Dome

Classification: Class 3
 Size (m²): 9,460

Scan Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 1

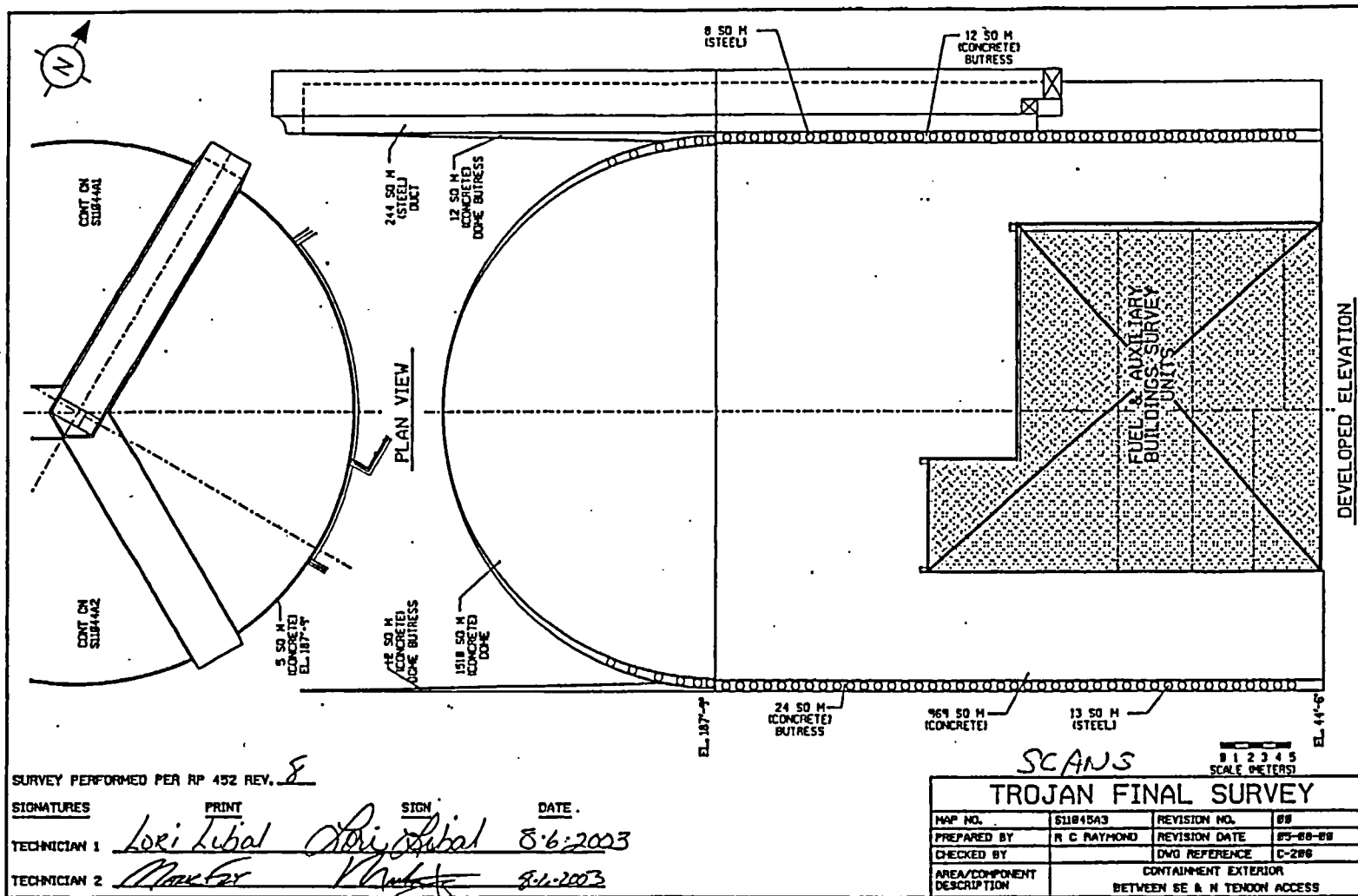
SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	Lori Libal	<i>Lori Libal</i>	8.6.2003
TECHNICIAN 2	Mark Fox	<i>Mark Fox</i>	8.6.2003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S11045A
 Survey Unit Name: Containment Building Walls, Buttresses, and Dome

Classification: Class 3
 Size (m²): 9,460

Scan Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. E

SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	Loxi Lubal	<i>[Signature]</i>	8.6.2003
TECHNICIAN 2	Mark For	<i>[Signature]</i>	8.11.2003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12045A

Classification: Class 3

Survey Unit Name: Turbine Building Lower North Exterior Wall

Size (m²): 212

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	11	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 1.300e+003
 Maximum Value : 1.506e+003
 Range : 2.060e+002
 Median : 1.418e+003
 Std. Deviation : 6.156e+001
 Mean : 1.402e+003
 95% UCL : 1.435e+003

Measurement Values

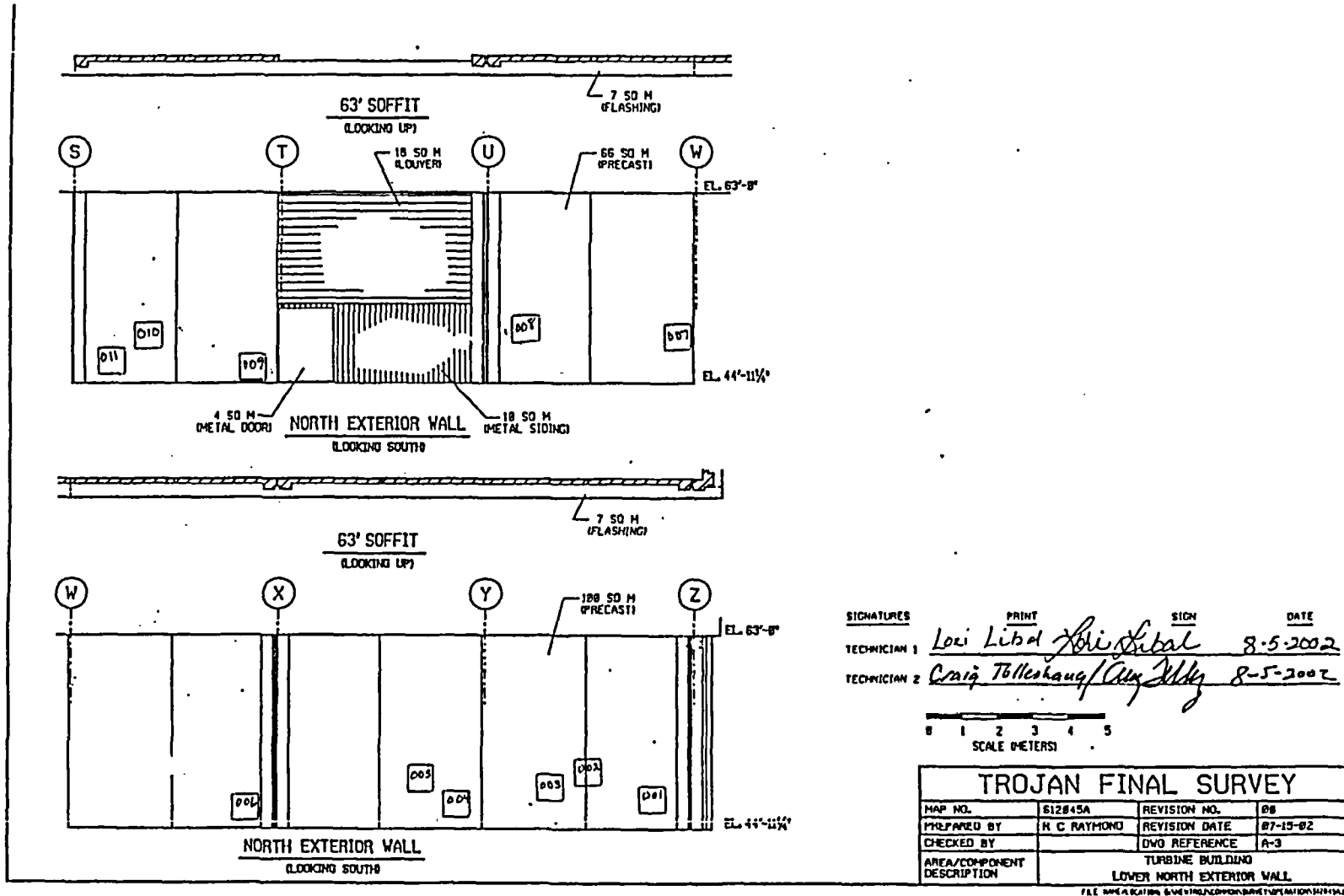
Location	Value
000001	1.343e+003
000002	1.418e+003
000003	1.442e+003
000004	1.453e+003
000005	1.427e+003
000006	1.506e+003
000007	1.438e+003
000008	1.386e+003
000009	1.324e+003
000010	1.300e+003
000011	1.380e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12045A
 Survey Unit Name: Turbine Building Lower North Exterior Wall

Classification: Class 3
 Size (m²): 212

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12045B
 Survey Unit Name: Turbine Building West Exterior Walls

Classification: Class 3
 Size (m²): 564

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	28	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 8.145e+002
 Maximum Value : 1.600e+003
 Range : 7.855e+002
 Median : 1.432e+003
 Std. Deviation : 2.389e+002
 Mean : 1.337e+003
 95% UCL : 1.414e+003

Measurement Values

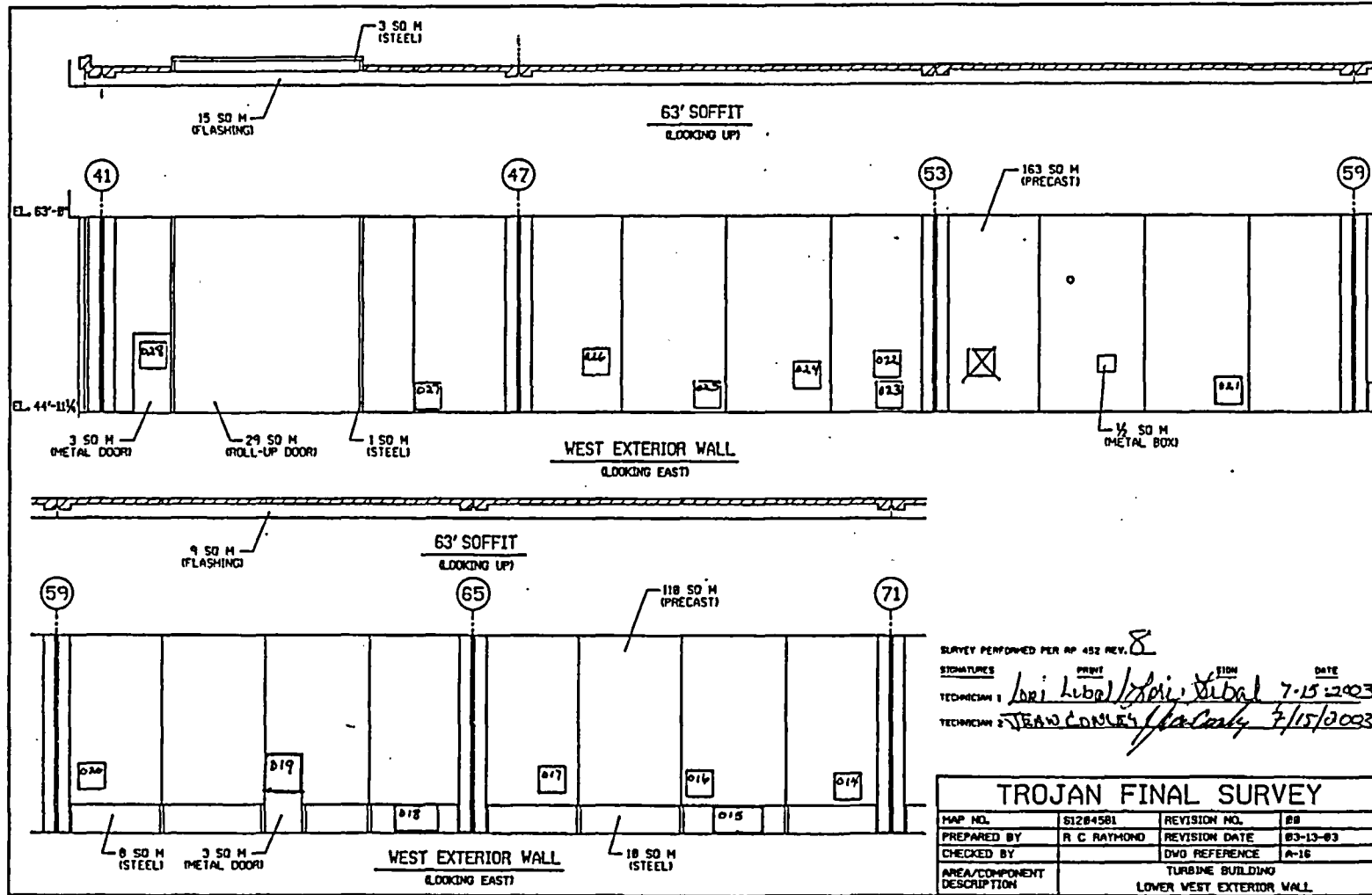
Location	Value	Location	Value
000001	1.407e+003	000018	1.025e+003
000002	1.428e+003	000019	8.145e+002
000003	8.953e+002	000020	1.435e+003
000004	1.486e+003	000021	1.481e+003
000005	1.444e+003	000022	1.389e+003
000006	1.600e+003	000023	1.548e+003
000007	1.523e+003	000024	1.552e+003
000008	1.458e+003	000025	1.491e+003
000009	1.496e+003	000026	1.374e+003
000010	9.733e+002	000027	1.381e+003
000011	1.423e+003	000028	9.498e+002
000012	1.074e+003		
000013	1.470e+003		
000014	1.423e+003		
000015	8.953e+002		
000016	1.517e+003		
000017	1.489e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12045B
 Survey Unit Name: Turbine Building West Exterior Walls

Classification: Class 3
 Size (m²): 564

Scan Measurement Locations Map

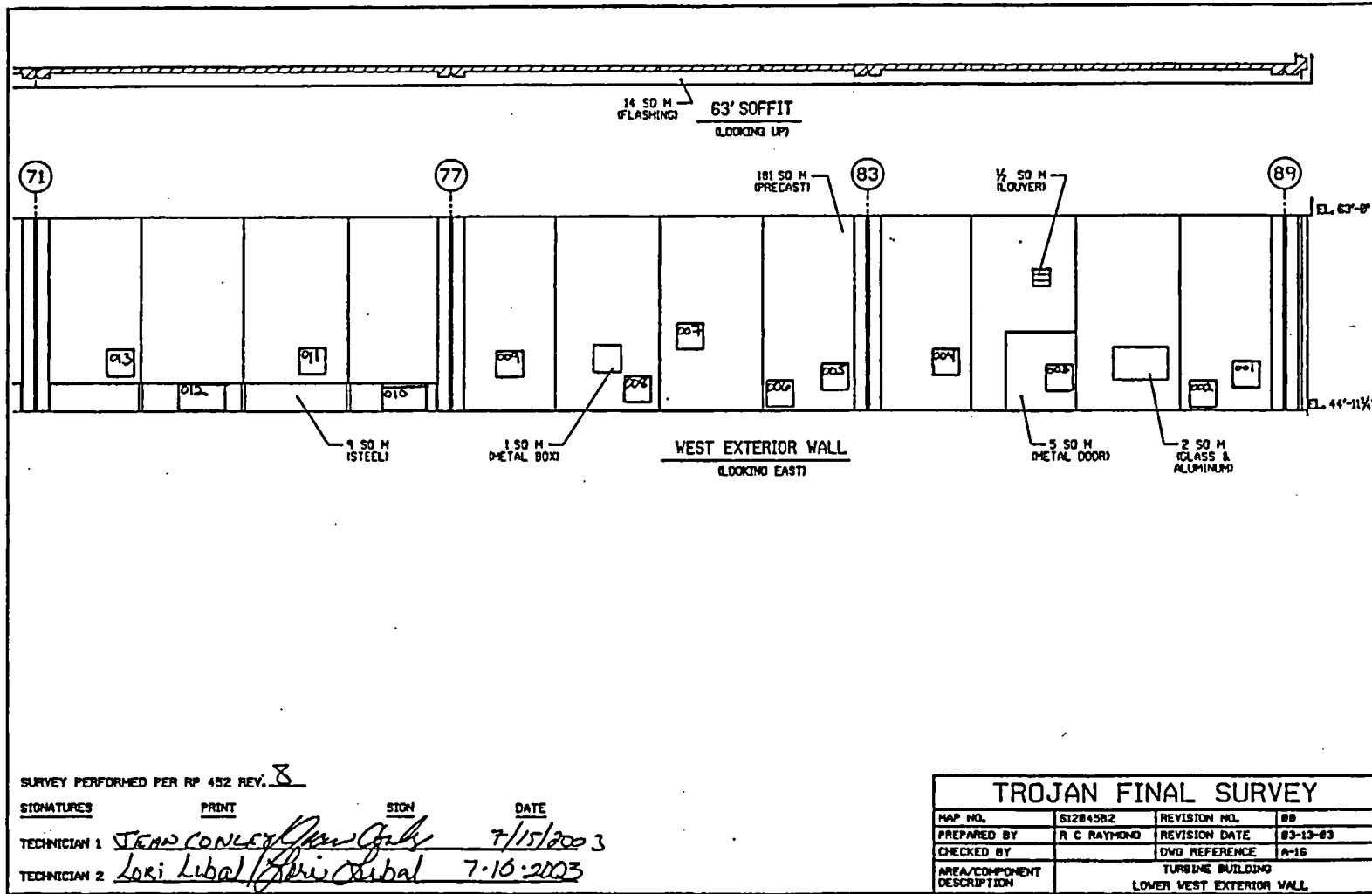


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12045B
 Survey Unit Name: Turbine Building West Exterior Walls

Classification: Class 3
 Size (m²): 564

Scan Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 8

SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	JEAN CONLEY	<i>Jean Conley</i>	7/15/2003
TECHNICIAN 2	Lori Libal	<i>Lori Libal</i>	7-16-2003

TROJAN FINAL SURVEY			
MAP NO.	S12045B2	REVISION NO.	00
PREPARED BY	R C RAYMOND	REVISION DATE	03-13-03
CHECKED BY		DWG REFERENCE	A-16
AREA/COMPONENT DESCRIPTION	TURBINE BUILDING LOWER WEST EXTERIOR WALL		

FILE LOCATION/NAME: G:\METS\TROJAN\COMMON\SURVEY\DWG\S12045B2.A

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12045C
 Survey Unit Name: Turbine Building Lower South and East
 Exterior Walls

Classification: Class 3
 Size (m²): 514

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	26	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 8.840e+002
 Maximum Value : 1.580e+003
 Range : 6.960e+002
 Median : 1.431e+003
 Std. Deviation : 1.630e+002
 Mean : 1.378e+003
 95% UCL : 1.432e+003

Measurement Values

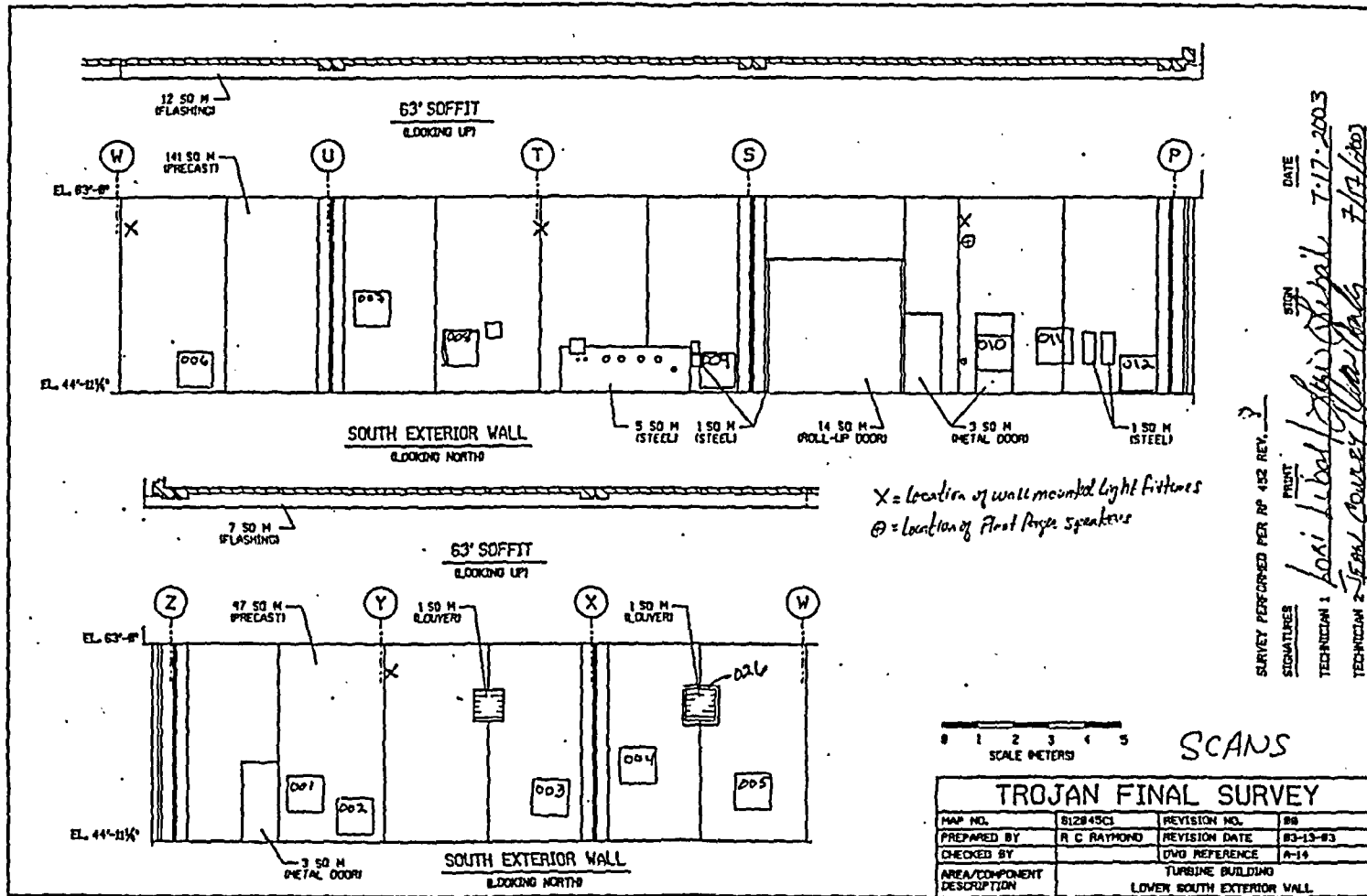
Location	Value	Location	Value
000001	1.298e+003	000018	1.329e+003
000002	1.426e+003	000019	1.294e+003
000003	1.420e+003	000020	1.553e+003
000004	1.397e+003	000021	1.492e+003
000005	1.440e+003	000022	1.325e+003
000006	1.456e+003	000023	1.474e+003
000007	1.453e+003	000024	1.326e+003
000008	1.580e+003	000025	8.840e+002
000009	1.439e+003	000026	1.125e+003
000010	9.629e+002		
000011	1.514e+003		
000012	1.472e+003		
000013	1.401e+003		
000014	1.446e+003		
000015	1.469e+003		
000016	1.436e+003		
000017	1.408e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12045C
 Survey Unit Name: Turbine Building Lower South and East Exterior Walls

Classification: Class 3
 Size (m²): 514

Scan Measurement Locations Map

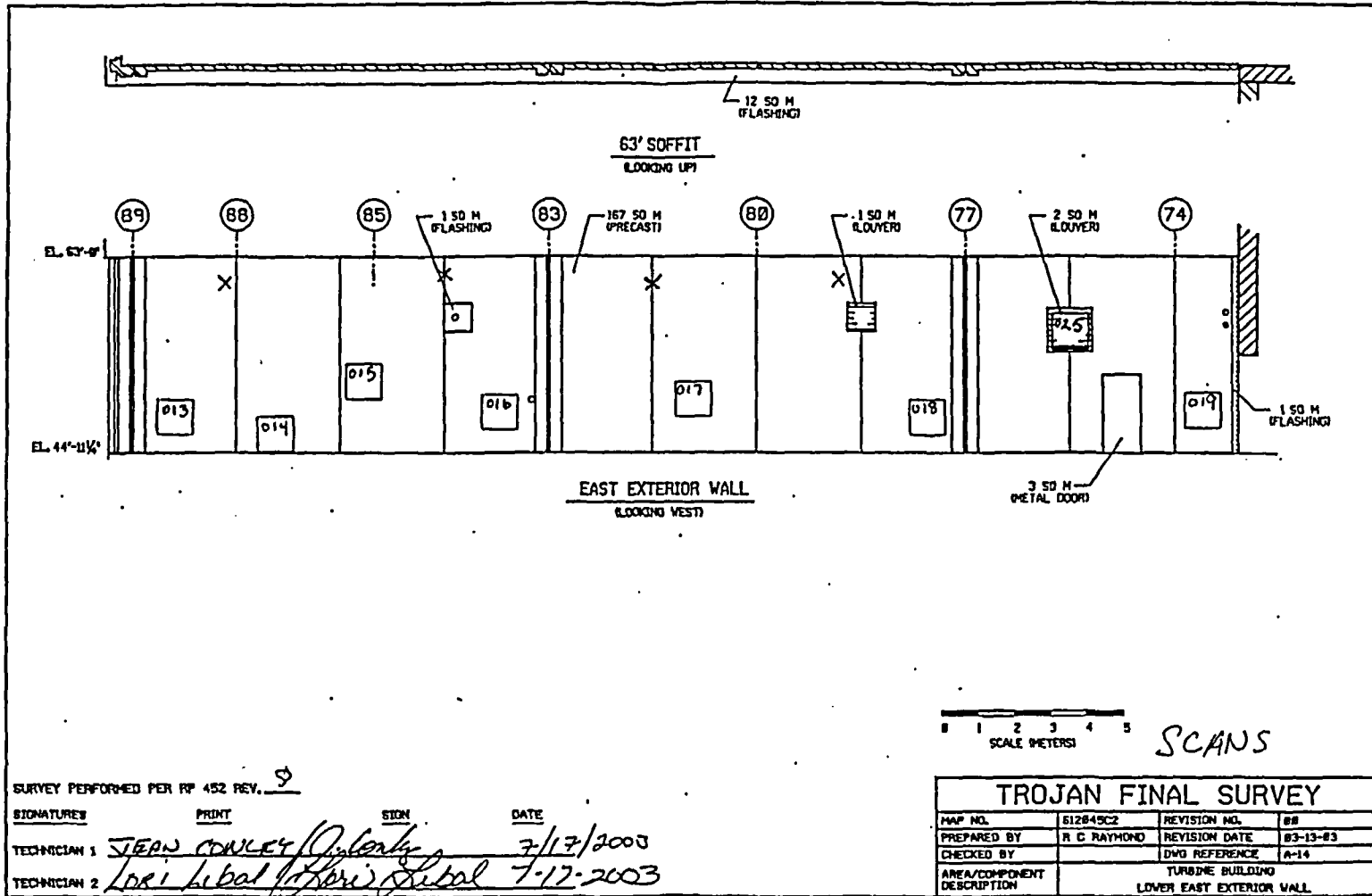


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12045C
 Survey Unit Name: Turbine Building Lower South and East Exterior Walls

Classification: Class 3
 Size (m²): 514

Scan Measurement Locations Map



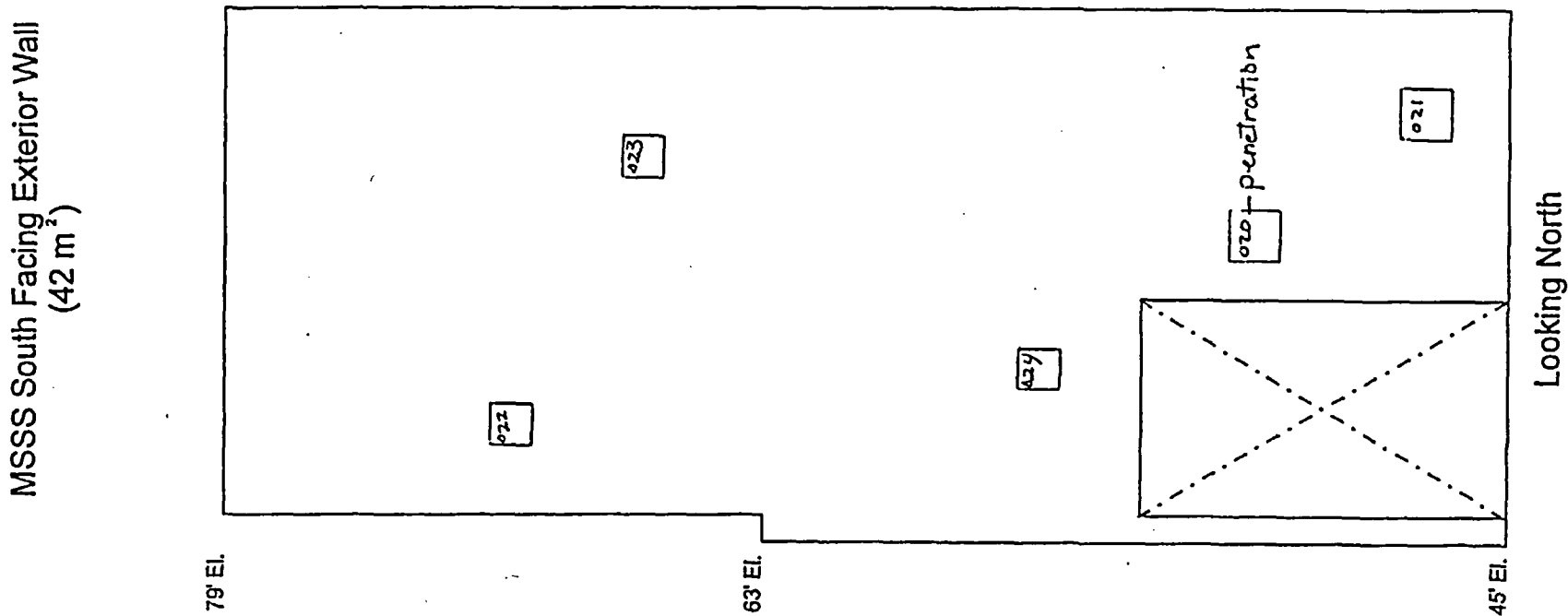
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12045C

Survey Unit Name: Turbine Building Lower South and East Exterior Walls

Classification: Class 3
Size (m²): 514

Scan Measurement Locations Map



Jerry Conley / Jerry Conley 7/17/2003
Survey Technician Date

Lori Libal / Lori Libal 7-17-2003
Survey Technician Date

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12063A

Classification: Class 3

Survey Unit Name: Turbine Building Upper North Exterior Wall

Size (m²): 1,105

No scan measurements performed.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12063B

Classification: Class 3

Survey Unit Name: Turbine Building Upper West Exterior Walls

Size (m²): 2,753

No scan measurements performed.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12063C

Survey Unit Name: Turbine Building Upper South and East
Exterior Walls

Classification: Class 3

Size (m²): 1,840

No scan measurements performed.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12116A

Classification: Class 3

Survey Unit Name: Turbine Building Upper East Exterior Wall

Size (m²): 1,284

No scan measurements performed.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12116B

Classification: Class 3

Survey Unit Name: Turbine Building Lower (Turbine Bay) Roof

Size (m²): 828

No scan measurements were performed.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S12157A

Survey Unit Name: Turbine Building Upper Roof

Classification: Class 3

Size (m²): 5,426

No scan measurements performed.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S13045A Classification: Class 3
 Survey Unit Name: Maintenance Building Exterior Walls and Patio Size (m²): 1,386

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	28	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 8.746e+002
 Maximum Value : 2.157e+003
 Range : 1.282e+003
 Median : 1.425e+003
 Std. Deviation : 2.371e+002
 Mean : 1.406e+003
 95% UCL : 1.482e+003

Measurement Values

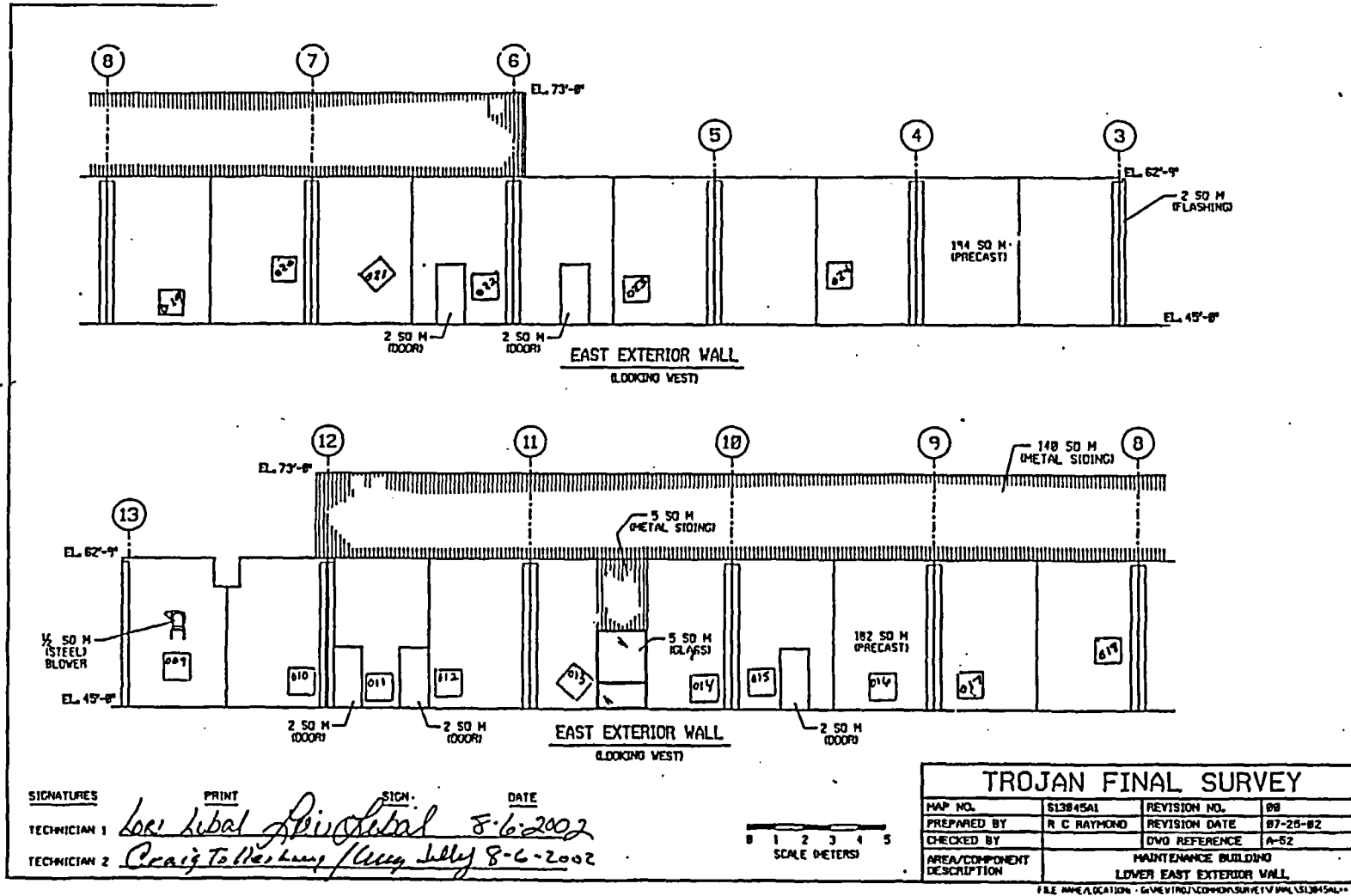
Location	Value	Location	Value
000001	1.450e+003	000018	1.423e+003
000002	1.468e+003	000019	1.544e+003
000003	1.501e+003	000020	1.485e+003
000004	1.355e+003	000021	1.391e+003
000005	1.425e+003	000022	1.451e+003
000006	1.552e+003	000023	1.571e+003
000007	9.989e+002	000024	1.407e+003
000008	9.801e+002	000025	8.746e+002
000009	1.473e+003	000026	9.587e+002
000010	1.538e+003	000027	1.425e+003
000011	1.419e+003	000028	2.157e+003
000012	1.376e+003		
000013	1.412e+003		
000014	1.485e+003		
000015	1.410e+003		
000016	1.402e+003		
000017	1.432e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S13045A
 Survey Unit Name: Maintenance Building Exterior Walls and Patio

Classification: Class 3
 Size (m²): 1,386

Scan Measurement Locations Map

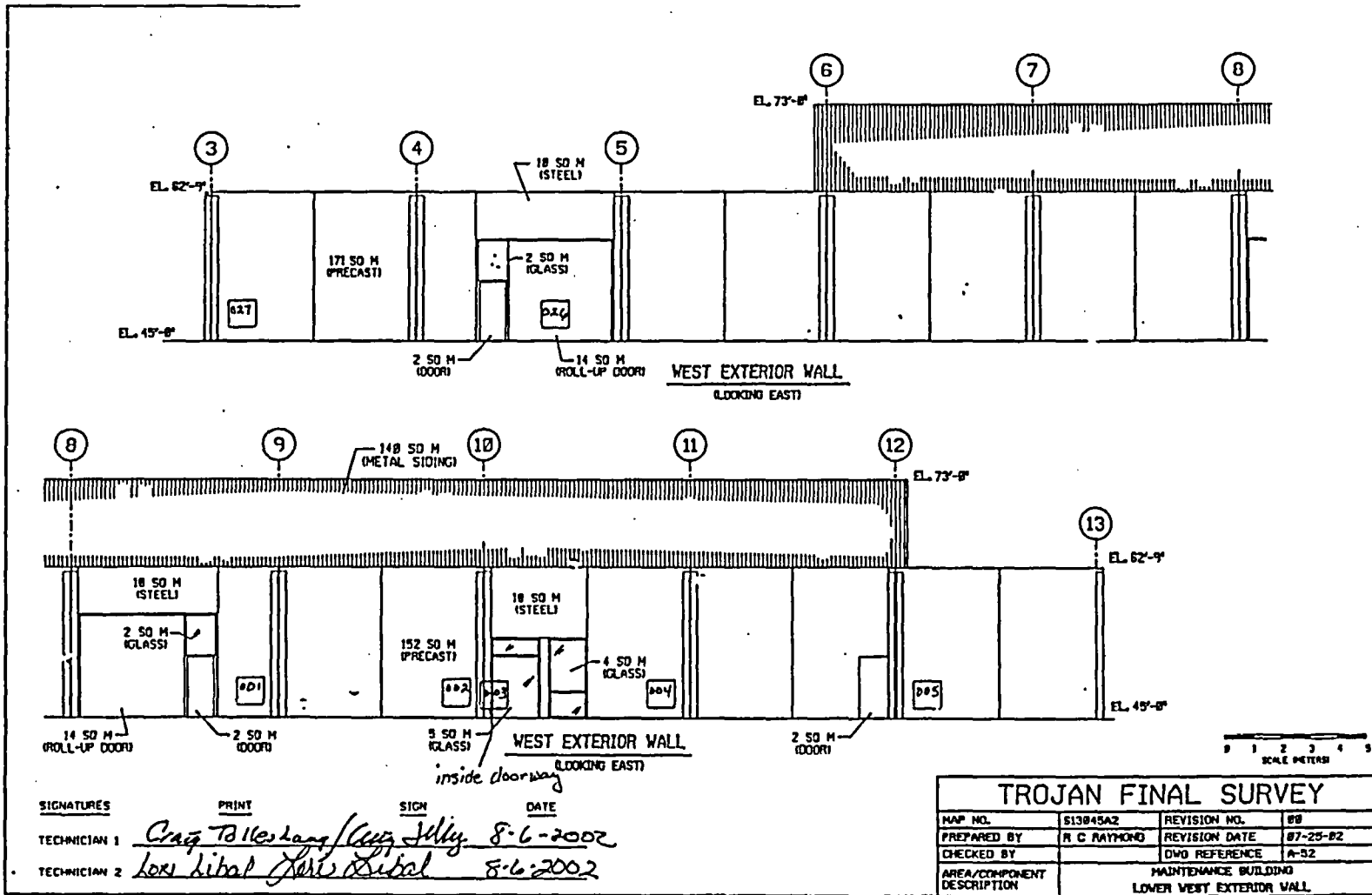


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S13045A
 Survey Unit Name: Maintenance Building Exterior Walls and Patio

Classification: Class 3
 Size (m²): 1,386

Scan Measurement Locations Map



SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	Craig Tolles-Lang / Craig Kelly	<i>[Signature]</i>	8-6-2002
TECHNICIAN 2	Lore Libal / Lore Libal	<i>[Signature]</i>	8-6-2002

TROJAN FINAL SURVEY			
MAP NO.	S13045A2	REVISION NO.	00
PREPARED BY	R C RAYMOND	REVISION DATE	07-25-02
CHECKED BY		DWG REFERENCE	A-52
AREA/COMPONENT DESCRIPTION	MAINTENANCE BUILDING LOWER WEST EXTERIOR WALL		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S13059A

Classification: Class 3

Survey Unit Name: Maintenance Building Roof (Excluding Patio)

Size (m²): 913

No scan measurements were performed.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14045A

Classification: Class 3

Survey Unit Name: Fuel Building Lower and Radioactive Waste
Annex North and West Exterior Walls

Size (m²): 173

Scan Measurement Data

Measurement Type Code	# OF Meas.	Measurement Unit	DCGL	SGN	WRS
8	9	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 1.517e+003
 Maximum Value : 2.233e+003
 Range : 7.160e+002
 Median : 1.600e+003
 Std. Deviation : 2.769e+002
 Mean : 1.719e+003
 95% UCL : 1.888e+003

Measurement Values

Location	Value
000001	1.600e+003
000002	1.545e+003
000003	1.533e+003
000004	2.233e+003
000005	2.163e+003
000006	1.560e+003
000007	1.656e+003
000008	1.663e+003
000009	1.517e+003

FINAL SURVEY RESULTS SUMMARY

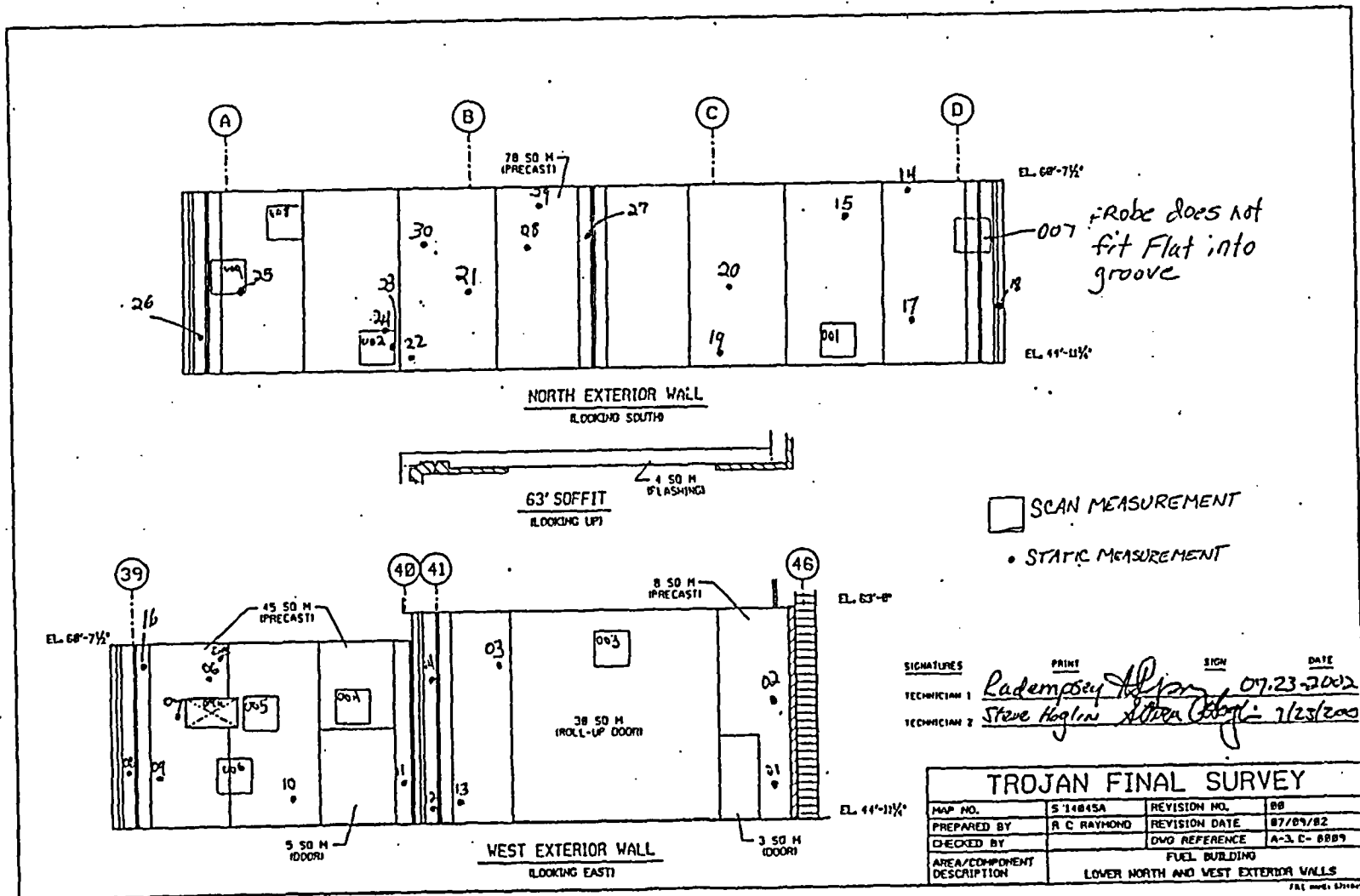
Survey Unit ID Code: S14045A

Classification: Class 3

Survey Unit Name: Fuel Building Lower and Radioactive Waste Annex North and West Exterior Walls

Size (m²): 173

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14045B

Classification: Class 3

Survey Unit Name: Fuel Building Lower and Radioactive Waste
Annex East Exterior Walls

Size (m²): 414

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	21	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:	
Minimum Value	: 1.017e+003
Maximum Value	: 1.587e+003
Range	: 5.700e+002
Median	: 1.334e+003
Std. Deviation	: 1.484e+002
Mean	: 1.310e+003
95% UCL	: 1.366e+003

Measurement Values

Location	Value	Location	Value
000001	1.337e+003	000018	1.207e+003
000002	1.334e+003	000019	1.406e+003
000003	1.387e+003	000020	1.420e+003
000004	1.313e+003	000021	1.587e+003
000005	1.251e+003		
000006	1.368e+003		
000007	1.313e+003		
000008	1.303e+003		
000009	1.441e+003		
000010	1.189e+003		
000011	1.497e+003		
000012	1.292e+003		
000013	1.438e+003		
000014	1.337e+003		
000015	1.025e+003		
000016	1.017e+003		
000017	1.052e+003		

FINAL SURVEY RESULTS SUMMARY

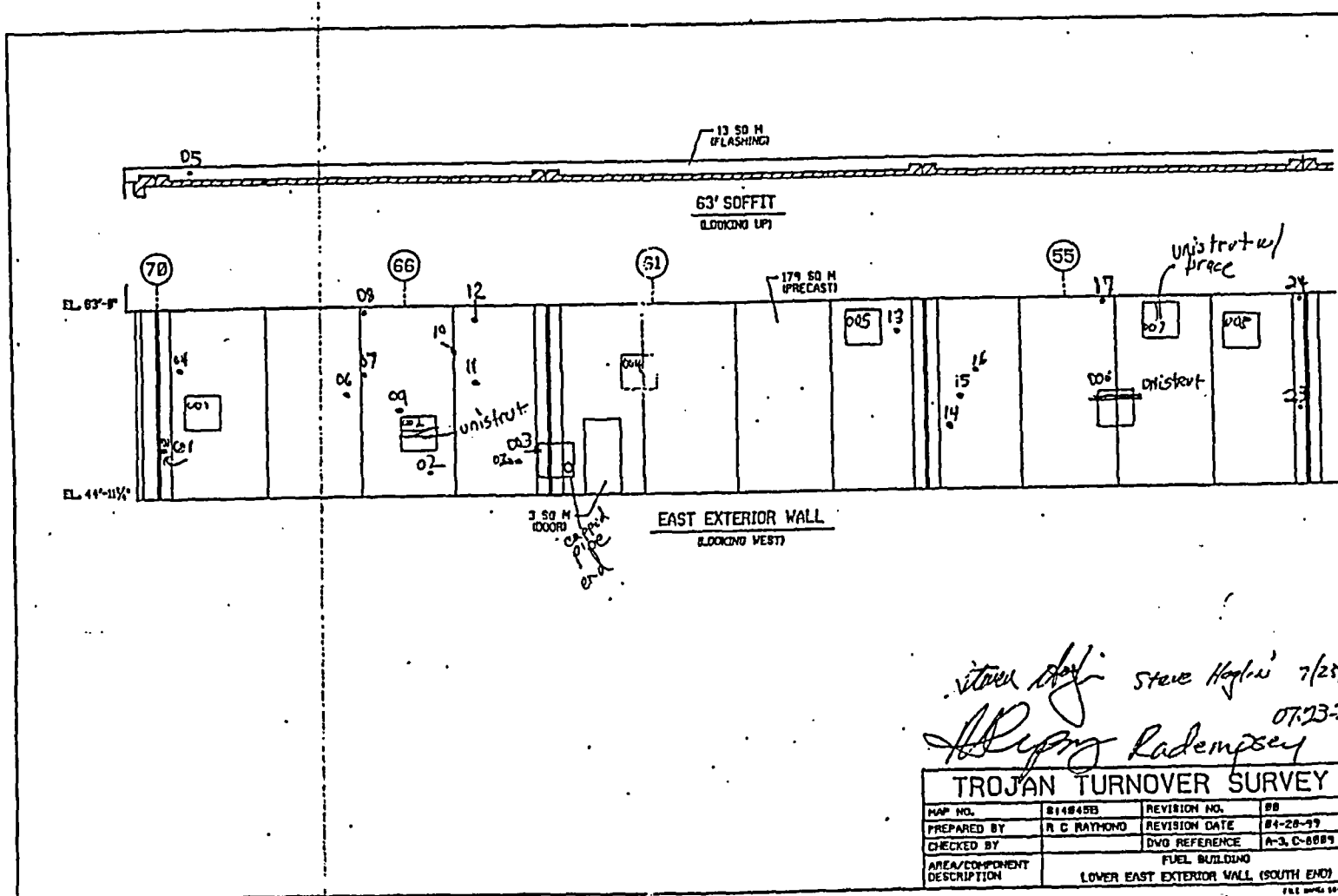
Survey Unit ID Code: S14045B

Survey Unit Name: Fuel Building Lower and Radioactive Waste Annex East Exterior Walls

Classification: Class 3

Size (m²): 414

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

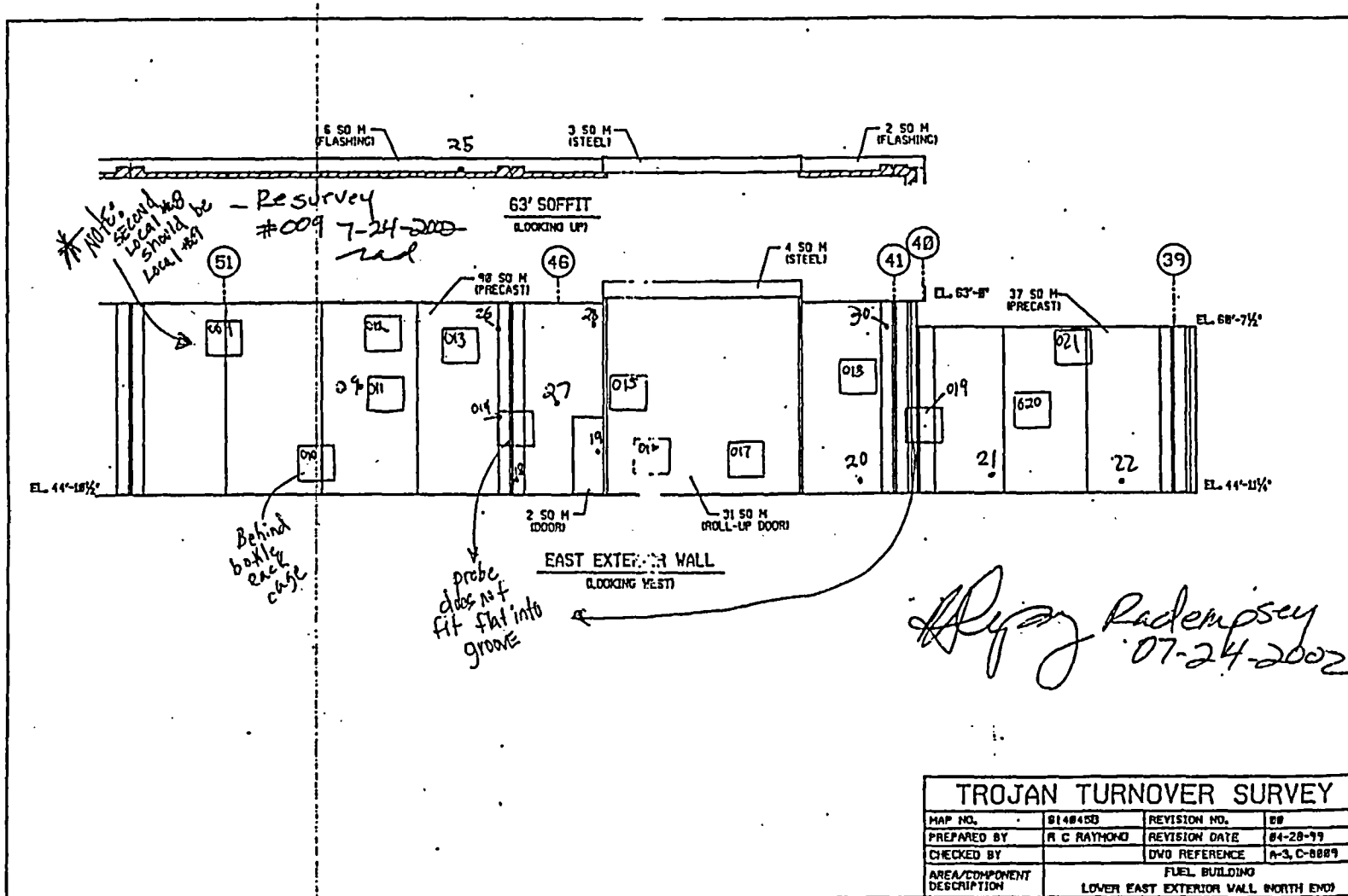
Survey Unit ID Code: S14045B

Survey Unit Name: Fuel Building Lower and Radioactive Waste Annex East Exterior Walls

Classification: Class 3

Size (m²): 414

Scan Measurement Locations Map



Ryan Radempsey
07-24-2002

TROJAN TURNOVER SURVEY			
MAP NO.	S14045B	REVISION NO.	00
PREPARED BY	R C RAYMOND	REVISION DATE	04-28-99
CHECKED BY		DWG REFERENCE	A-3, C-8889
AREA/COMPONENT DESCRIPTION	FUEL BUILDING LOWER EAST EXTERIOR WALL (NORTH END)		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14045C
 Survey Unit Name: Fuel Building South Exterior Walls

Classification: Class 3
 Size (m²): 643

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	33	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 1.195e+003
 Maximum Value : 1.624e+003
 Range : 4.290e+002
 Median : 1.479e+003
 Std. Deviation : 1.006e+002
 Mean : 1.463e+003
 95% UCL : 1.493e+003

Measurement Values

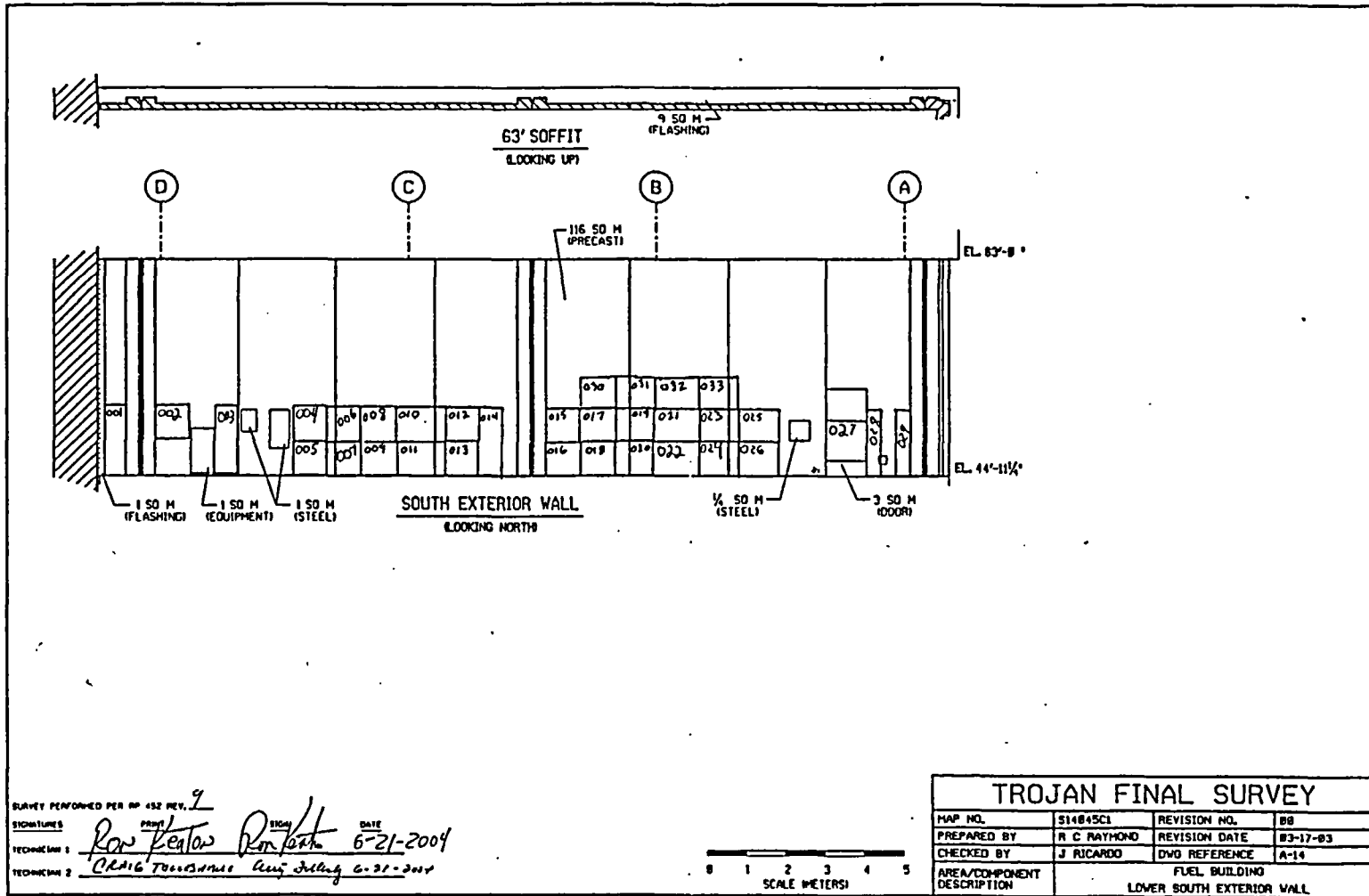
Location	Value	Location	Value
000001	1.195e+003	000018	1.577e+003
000002	1.328e+003	000019	1.511e+003
000003	1.311e+003	000020	1.454e+003
000004	1.343e+003	000021	1.413e+003
000005	1.599e+003	000022	1.474e+003
000006	1.511e+003	000023	1.572e+003
000007	1.410e+003	000024	1.499e+003
000008	1.500e+003	000025	1.391e+003
000009	1.409e+003	000026	1.482e+003
000010	1.577e+003	000027	1.239e+003
000011	1.455e+003	000028	1.586e+003
000012	1.376e+003	000029	1.465e+003
000013	1.476e+003	000030	1.582e+003
000014	1.479e+003	000031	1.490e+003
000015	1.522e+003	000032	1.473e+003
000016	1.483e+003	000033	1.483e+003
000017	1.624e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14045C
 Survey Unit Name: Fuel Building South Exterior Walls

Classification: Class 3
 Size (m²): 643

Scan Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 2
 SIGNATURES: *Ron Keaton* (PRIN), *Ron Keaton* (TECHN 1), *Chris Truesdell* (TECHN 2)
 DATE: 6-21-2004

TROJAN FINAL SURVEY			
MAP NO.	S14045C1	REVISION NO.	00
PREPARED BY	R C RAYMOND	REVISION DATE	03-17-03
CHECKED BY	J RICARDO	DWG REFERENCE	A-14
AREA/COMPONENT DESCRIPTION	FUEL BUILDING LOWER SOUTH EXTERIOR WALL		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14063A
Survey Unit Name: Fuel Building Upper North
and West Exterior Walls

Classification: Class 3
Size (m²): 1,008

No scan measurements were taken.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14063B

Survey Unit Name: Fuel Building Upper East Exterior Wall

Classification: Class 3

Size (m²): 1,215

No scan measurements were taken.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S14138A

Classification: Class 3

Survey Unit Name: Fuel Building, Auxiliary Building,

Size (m²): 3,870

Control Building, and Radioactive Waste Annex Roofs

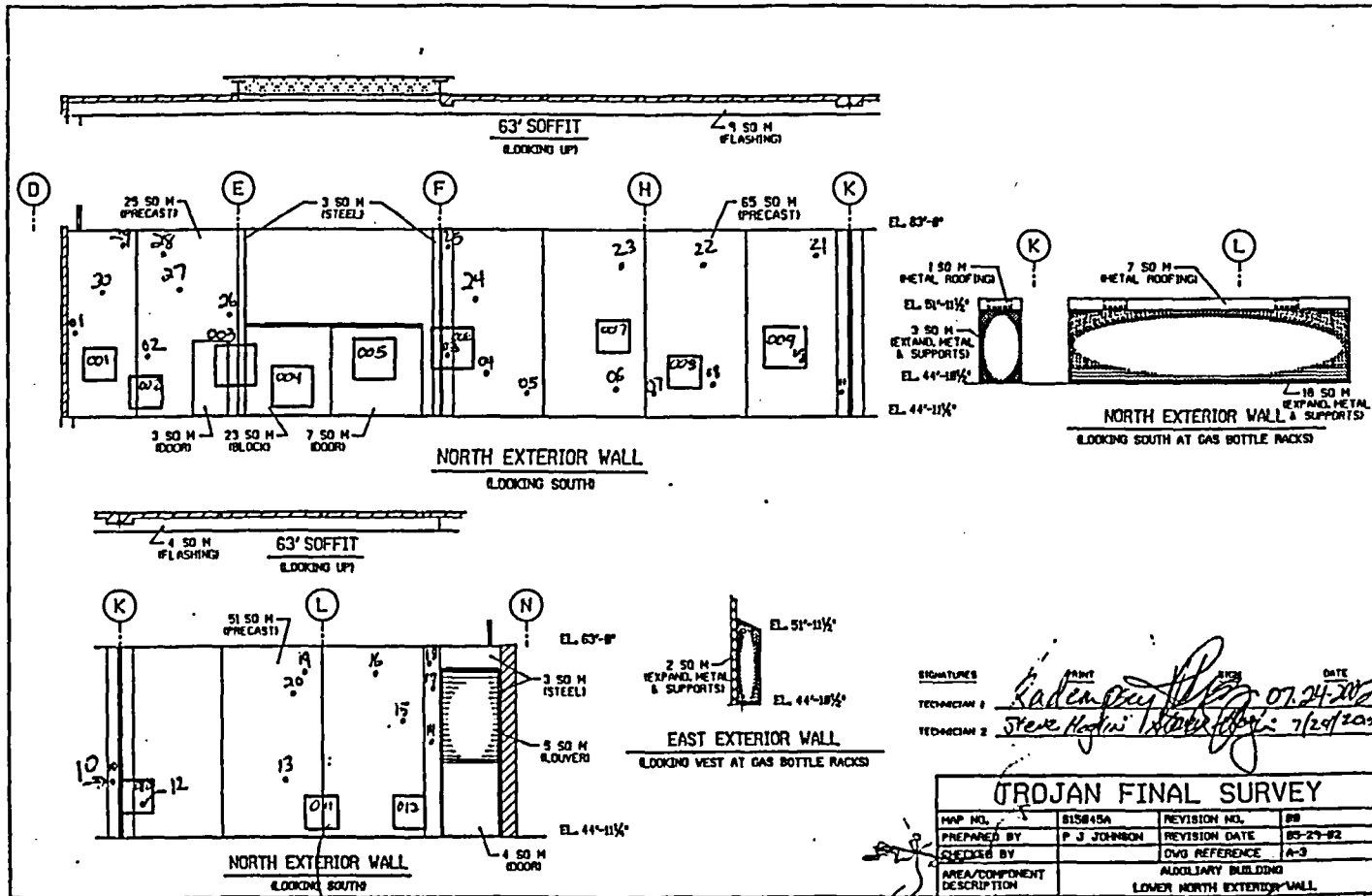
No scan measurements were taken.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S15045A
 Survey Unit Name: Auxiliary Building Lower North Exterior Wall

Classification: Class 3
 Size (m²): 233

Scan Measurement Locations Map



behind
 bottle
 rack
 cage

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S15063A

Classification: Class 3

Survey Unit Name: Auxiliary Building Upper North Exterior Wall

Size (m²): 552

No scan measurements were taken.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S16045A
 Survey Unit Name: Control Building Lower North and East
 Exterior Walls

Classification: Class 3
 Size (m²): 213

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	11	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 1.185e+003
 Maximum Value : 1.922e+003
 Range : 7.370e+002
 Median : 1.407e+003
 Std. Deviation : 2.320e+002
 Mean : 1.464e+003
 95% UCL : 1.590e+003

Measurement Values

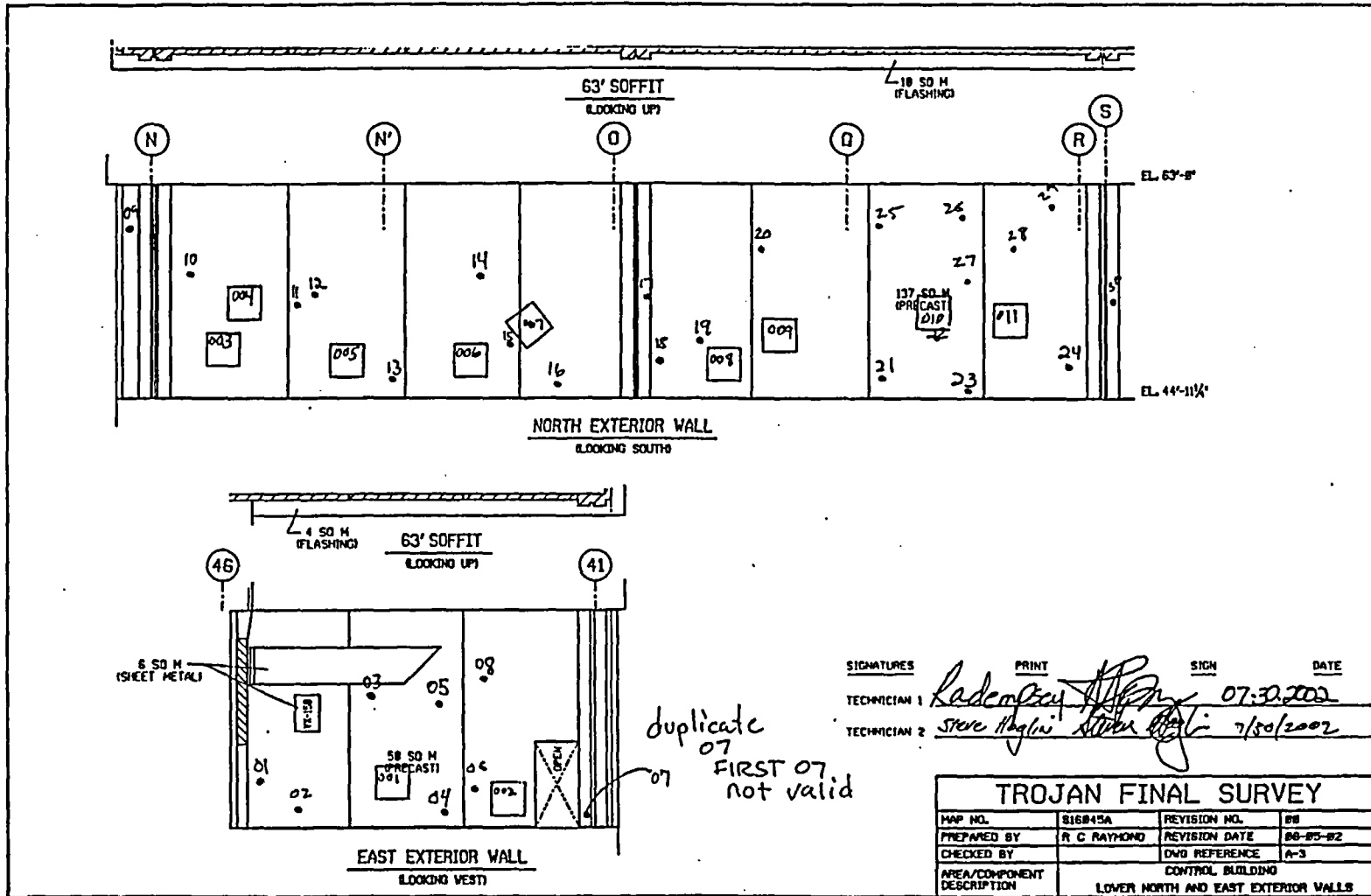
Location	Value
000001	1.407e+003
000002	1.403e+003
000003	1.811e+003
000004	1.922e+003
000005	1.626e+003
000006	1.460e+003
000007	1.333e+003
000008	1.416e+003
000009	1.321e+003
000010	1.185e+003
000011	1.225e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S16045A
 Survey Unit Name: Control Building Lower North and East Exterior Walls

Classification: Class 3
 Size (m²): 213

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S16063A

Survey Unit Name: Control Building Upper North and East
Exterior Walls

Classification: Class 3

Size (m²): 579

No scan measurements were taken.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S17045A
 Survey Unit Name: Condensate Demineralizer Building
 Exterior Walls and Roof

Classification: Class 3
 Size (m²): 1,340

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	28	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 1.107e+003
 Maximum Value : 3.641e+003
 Range : 2.534e+003
 Median : 1.595e+003
 Std. Deviation : 6.144e+002
 Mean : 1.826e+003
 95% UCL : 2.023e+003

Measurement Values

Location	Value	Location	Value
000001	1.453e+003	000018	1.510e+003
000002	1.428e+003	000019	1.592e+003
000003	1.441e+003	000020	2.670e+003
000004	1.586e+003	000021	3.641e+003
000005	1.164e+003	000022	1.932e+003
000006	1.598e+003	000023	3.175e+003
000007	1.700e+003	000024	2.660e+003
000008	1.512e+003	000025	1.323e+003
000009	1.601e+003	000026	1.107e+003
000010	1.516e+003	000027	1.849e+003
000011	1.447e+003	000028	1.538e+003
000012	1.361e+003		
000013	1.619e+003		
000014	2.523e+003		
000015	2.477e+003		
000016	2.054e+003		
000017	1.648e+003		

FINAL SURVEY RESULTS SUMMARY

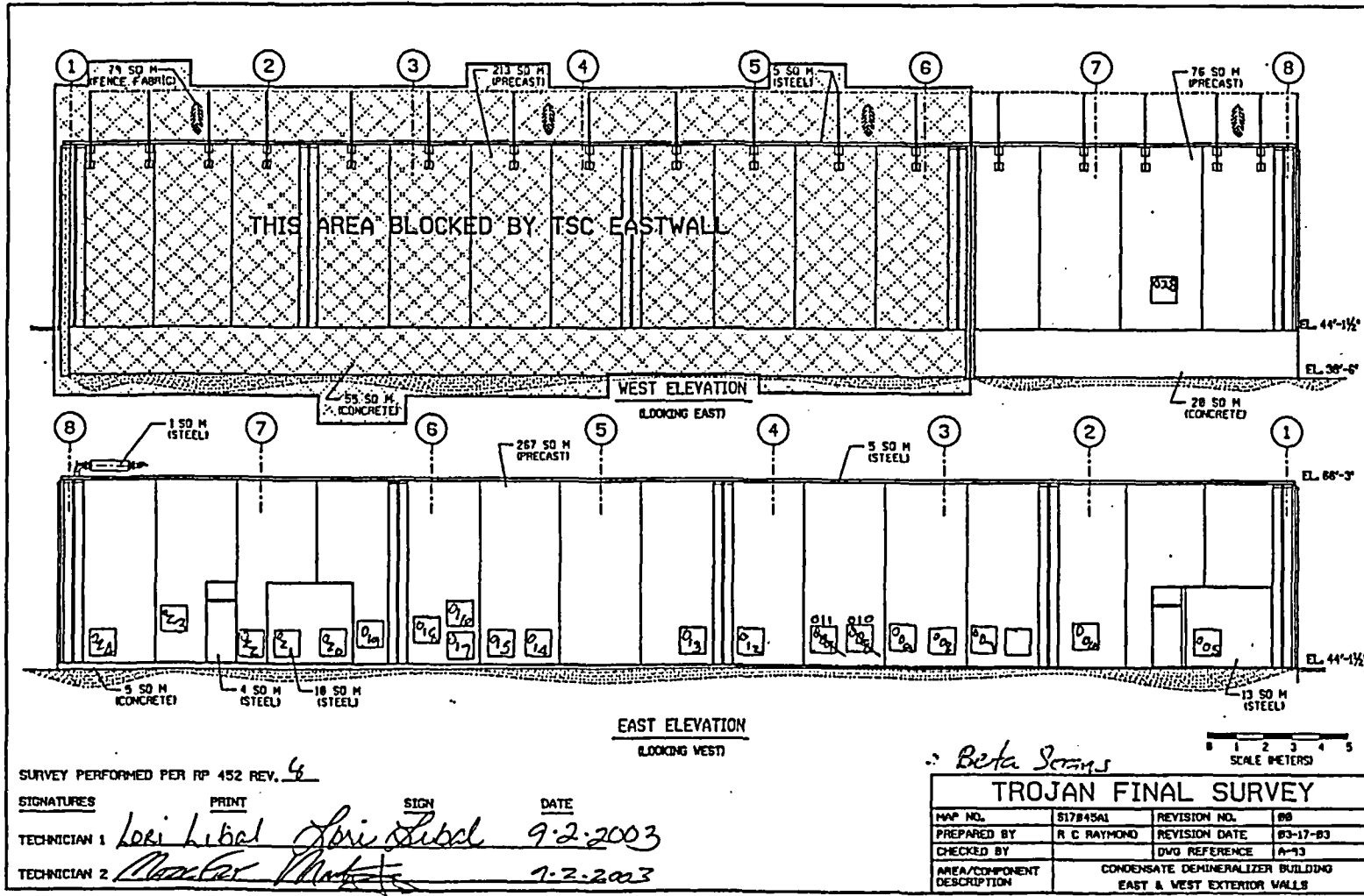
Survey Unit ID Code: S17045A

Survey Unit Name: Condensate Demineralizer Building Exterior Walls and Roof

Classification: Class 3

Size (m²): 1,340

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

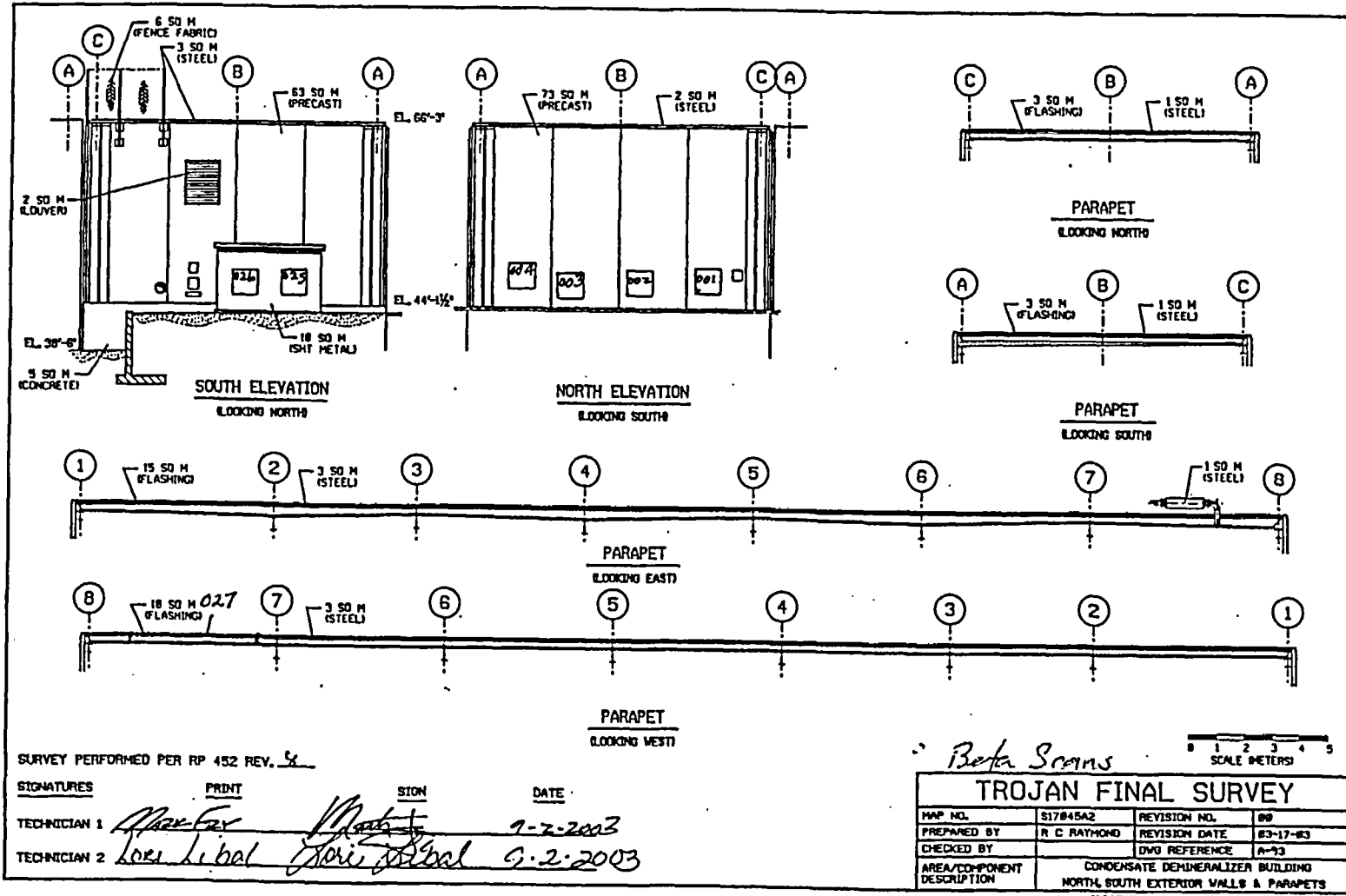
Survey Unit ID Code: S17045A

Survey Unit Name: Condensate Demineralizer Building Exterior Walls and Roof

Classification: Class 3

Size (m²): 1,340

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S21023A
 Survey Unit Name: Intake Structure Exterior

Classification: Class 3
 Size (m²): 955

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	48	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 9.653e+002
 Maximum Value : 2.178e+003
 Range : 1.213e+003
 Median : 1.617e+003
 Std. Deviation : 3.473e+002
 Mean : 1.623e+003
 95% UCL : 1.707e+003

Measurement Values

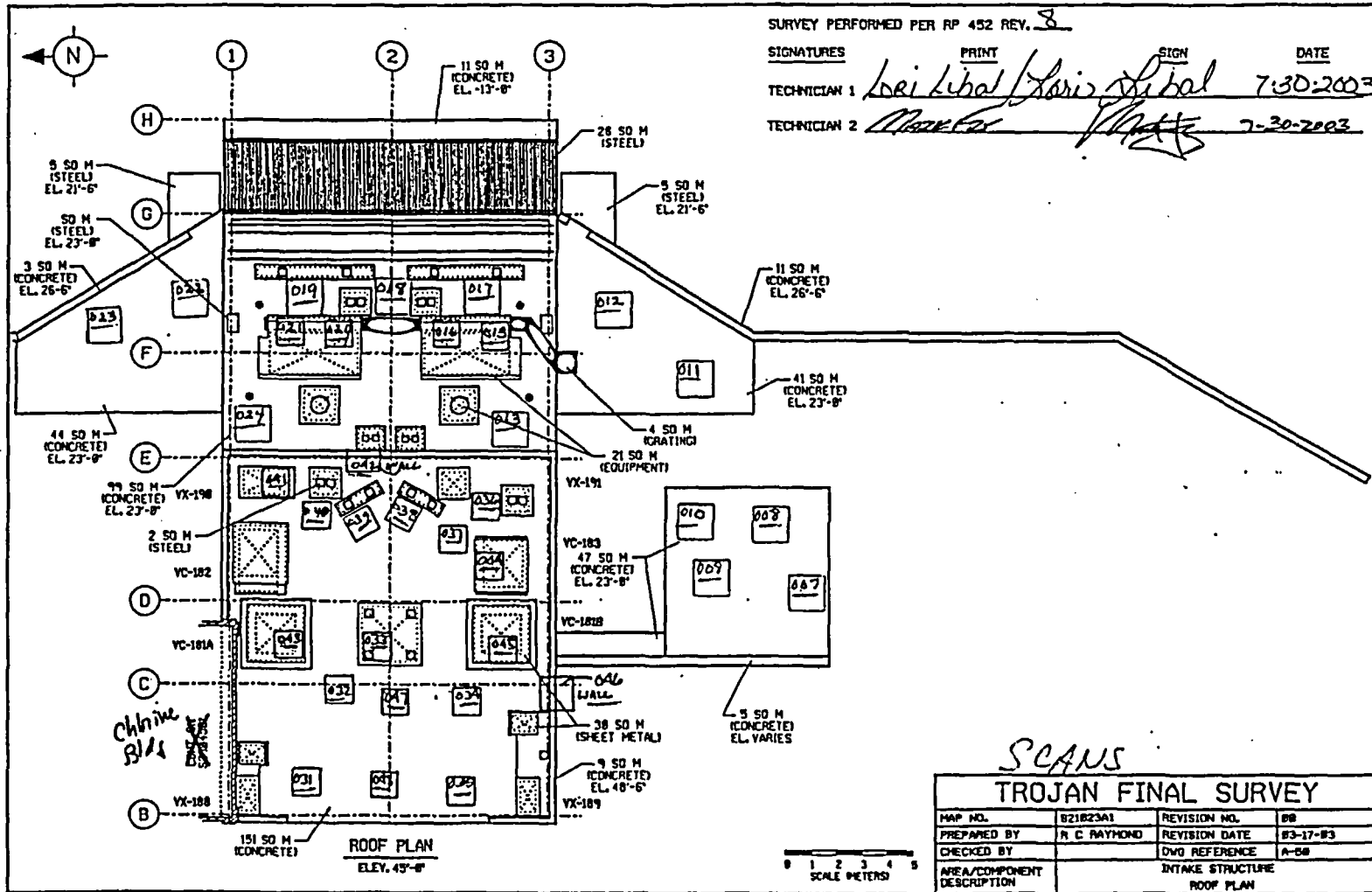
Location	Value	Location	Value	Location	Value
000001	1.447e+003	000018	1.830e+003	000035	2.178e+003
000002	1.446e+003	000019	2.035e+003	000036	2.175e+003
000003	1.465e+003	000020	9.882e+002	000037	1.975e+003
000004	1.504e+003	000021	1.008e+003	000038	2.004e+003
000005	1.313e+003	000022	9.653e+002	000039	1.917e+003
000006	1.321e+003	000023	1.192e+003	000040	1.917e+003
000007	1.464e+003	000024	1.806e+003	000041	1.358e+003
000008	1.828e+003	000025	1.565e+003	000042	1.654e+003
000009	1.872e+003	000026	1.601e+003	000043	1.217e+003
000010	1.814e+003	000027	1.405e+003	000044	1.298e+003
000011	1.824e+003	000028	1.412e+003	000045	1.348e+003
000012	1.870e+003	000029	1.633e+003	000046	1.589e+003
000013	1.671e+003	000030	1.458e+003	000047	1.910e+003
000014	1.391e+003	000031	2.077e+003	000048	1.869e+003
000015	1.058e+003	000032	2.124e+003		
000016	1.017e+003	000033	2.133e+003		
000017	2.036e+003	000034	1.934e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S21023A
 Survey Unit Name: Intake Structure Exterior

Classification: Class 3
 Size (m²): 955

Scan Measurement Locations Map

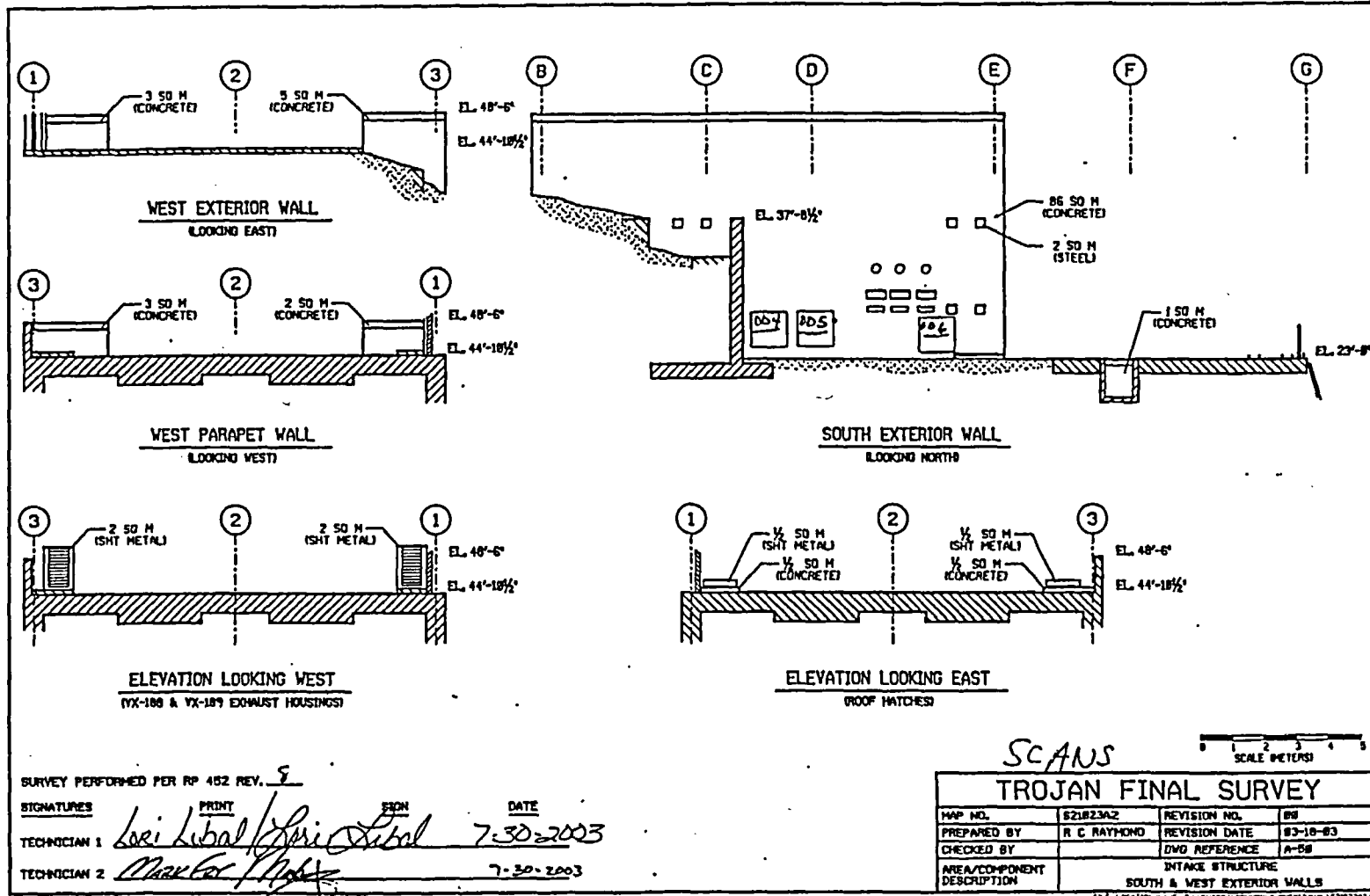


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S21023A
 Survey Unit Name: Intake Structure Exterior

Classification: Class 3
 Size (m²): 955

Scan Measurement Locations Map

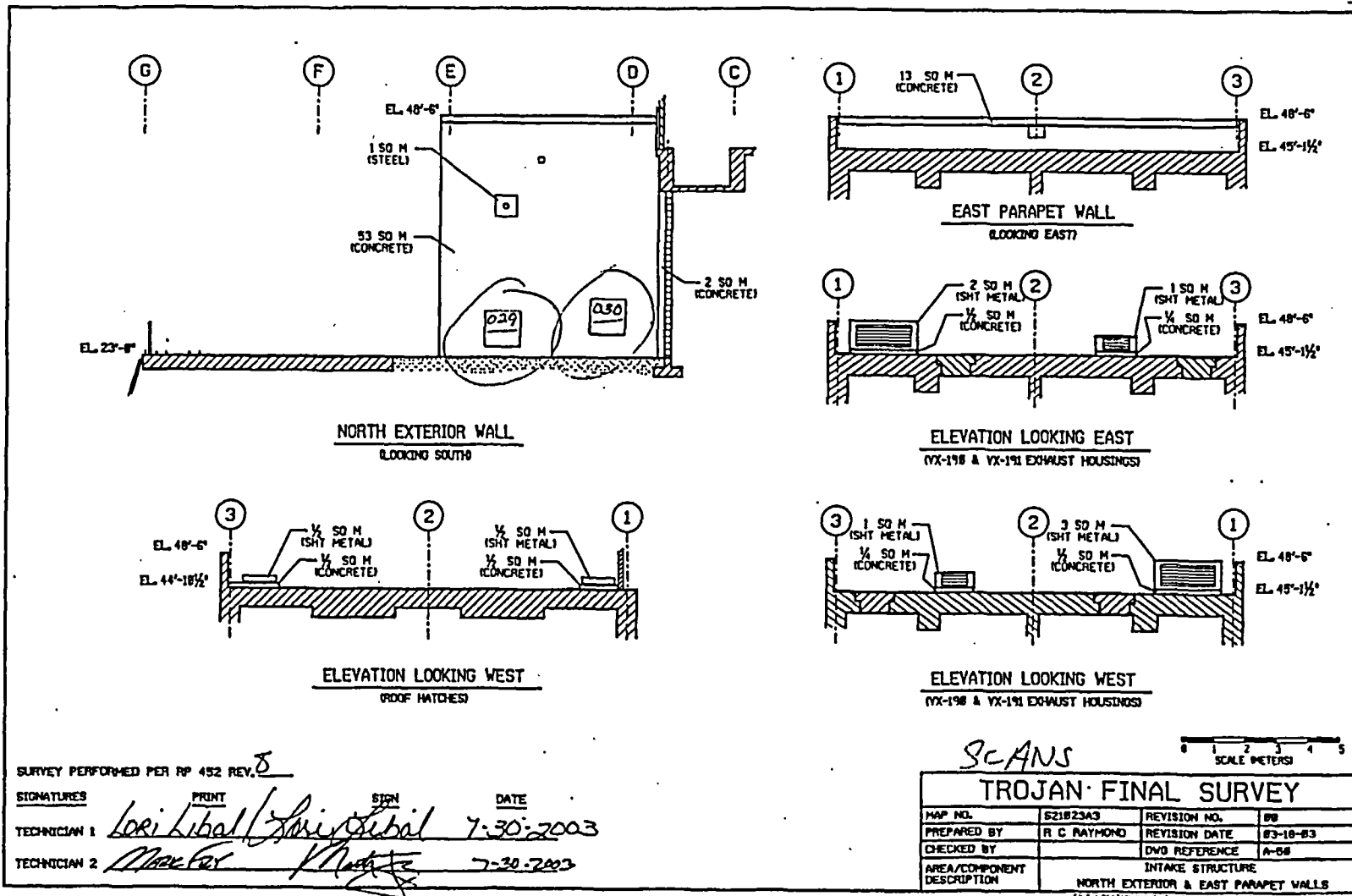


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S21023A
 Survey Unit Name: Intake Structure Exterior

Classification: Class 3
 Size (m²): 955

Scan Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 0

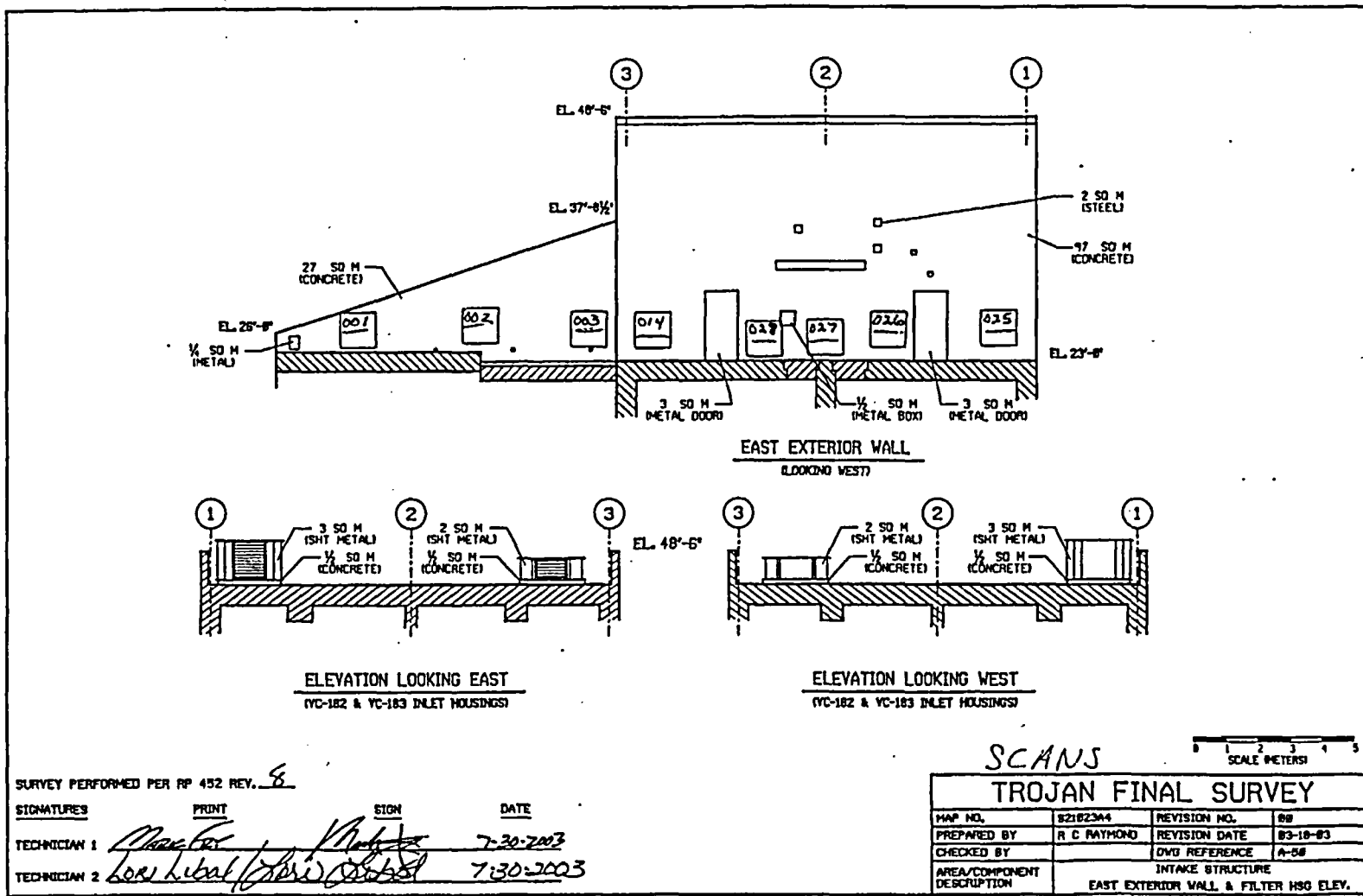
SIGNATURES	PRINT	SIGN	DATE
<i>Lori Libal</i>	Lori Libal	<i>[Signature]</i>	7-30-2003
<i>Mark Fox</i>	Mark Fox	<i>[Signature]</i>	7-30-2003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S21023A
 Survey Unit Name: Intake Structure Exterior

Classification: Class 3
 Size (m²): 955

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S32045B
 Survey Unit Name: Chlorine Building Exterior Walls,
 Roof, and Guard Tower

Classification: Class 3
 Size (m²): 1,084

Scan Measurement Data

Measurement Type Code	#. Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	22	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 8.769e+002
 Maximum Value : 1.933e+003
 Range : 1.056e+003
 Median : 1.336e+003
 Std. Deviation : 2.694e+002
 Mean : 1.363e+003
 95% UCL : 1.462e+003

Measurement Values

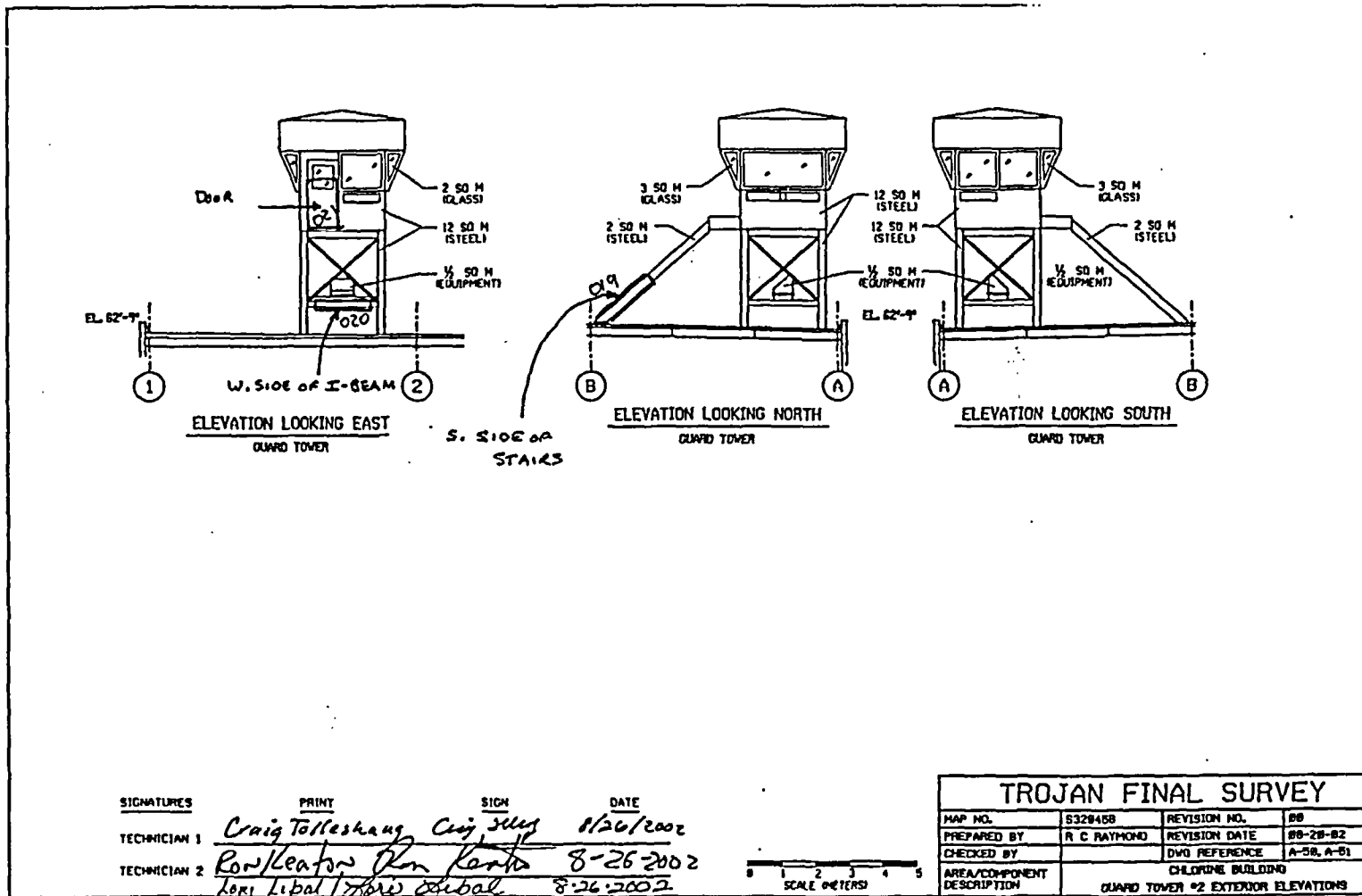
Location	Value	Location	Value
000001	1.019e+003	000018	1.605e+003
000002	1.298e+003	000019	1.163e+003
000003	1.384e+003	000020	1.063e+003
000004	1.246e+003	000021	1.064e+003
000005	1.933e+003	000022	8.769e+002
000006	1.859e+003		
000007	1.272e+003		
000008	1.565e+003		
000009	1.534e+003		
000010	1.088e+003		
000011	1.223e+003		
000012	1.585e+003		
000013	1.482e+003		
000014	1.593e+003		
000015	1.466e+003		
000016	1.356e+003		
000017	1.316e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S32045B
 Survey Unit Name: Chlorine Building Exterior Walls, Roof, and Guard Tower

Classification: Class 3
 Size (m²): 1,084

Scan Measurement Locations Map



SIGNATURES	PRINT	SIGN	DATE
	Craig Tolleshaug	<i>Craig Tolleshaug</i>	8/26/2002
TECHNICIAN 1	Row/Leaton	<i>Row/Leaton</i>	8-26-2002
TECHNICIAN 2	Lori Libal / <i>Lori Libal</i>	<i>Lori Libal</i>	8-26-2002

TROJAN FINAL SURVEY			
MAP NO.	S32045B	REVISION NO.	00
PREPARED BY	R C RAYMOND	REVISION DATE	08-28-02
CHECKED BY		DWG REFERENCE	A-58, A-51
AREA/COMPONENT DESCRIPTION	CHLORINE BUILDING GUARD TOWER #2 EXTERIOR ELEVATIONS		

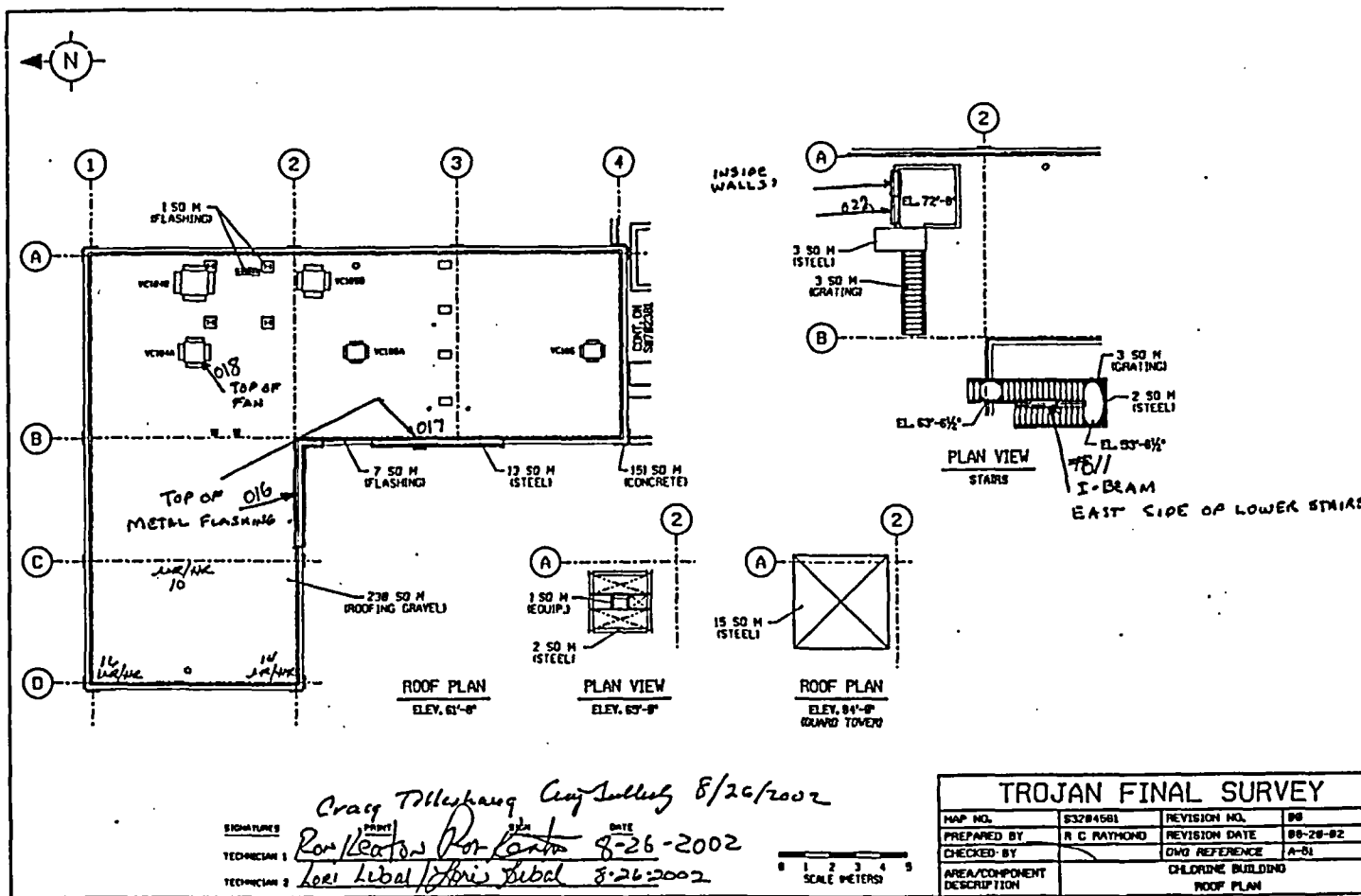
FILE NAME: LOCATION & VELOCITY INFORMATION SURVEY UNIT S32045B.DWG

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S32045B
 Survey Unit Name: Chlorine Building Exterior Walls, Roof, and Guard Tower

Classification: Class 3
 Size (m²): 1,084

Scan Measurement Locations Map



Bicron LLC
 A980 W
 10-17-2002

FINAL SURVEY RESULTS SUMMARY

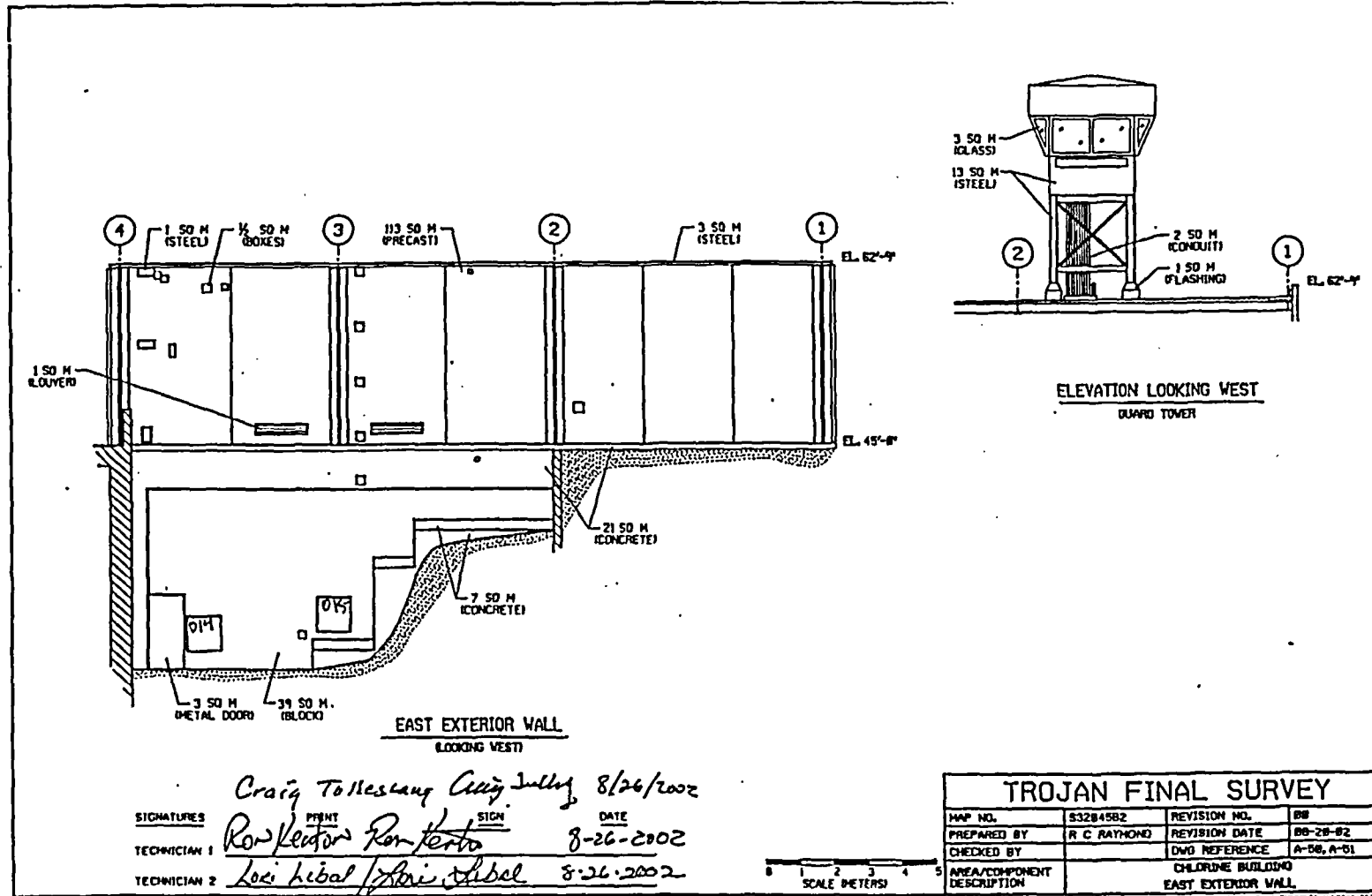
Survey Unit ID Code: S32045B

Survey Unit Name: Chlorine Building Exterior Walls, Roof, and Guard Tower

Classification: Class 3

Size (m²): 1,084

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

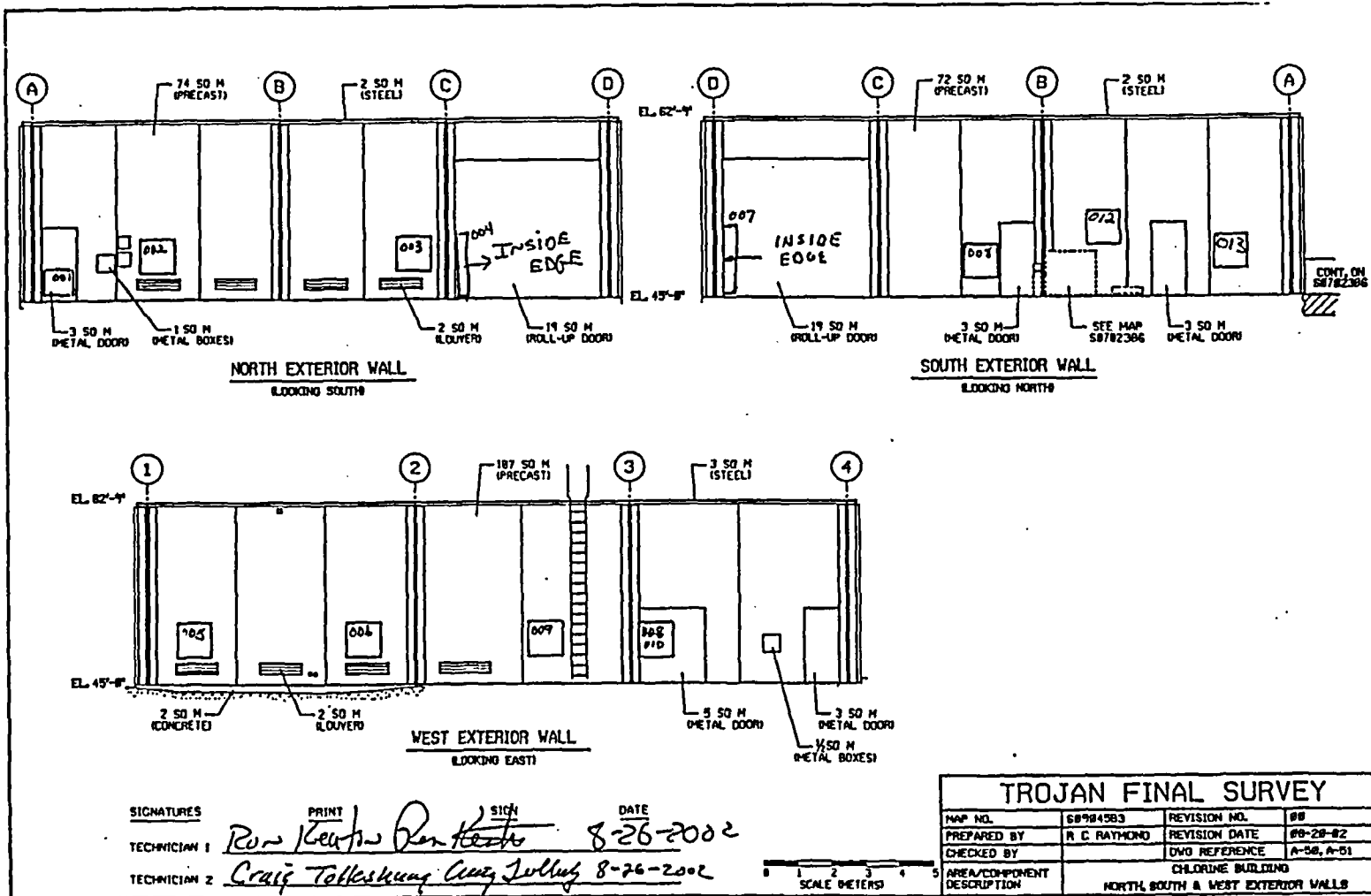
Survey Unit ID Code: S32045B

Classification: Class 3

Survey Unit Name: Chlorine Building Exterior Walls, Roof, and Guard Tower

Size (m²): 1,084

Scan Measurement Locations Map



SIGNATURES
 TECHNICIAN 1: *Ron Keefe* PRINT *Ron Keefe* SIGN *Ron Keefe* DATE *8-26-2002*
 TECHNICIAN 2: *Craig Tollesky* PRINT *Craig Tollesky* SIGN *Craig Tollesky* DATE *8-26-2002*

Lori Libal/Lori Libal 8-26-2002 SCANS

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S33045A

Classification: Class 3

Survey Unit Name: Guardhouse Exterior Walls, Roof, and Stairs

Size (m²): 540

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	28	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:	
Minimum Value	: 8.286e+002
Maximum Value	: 1.797e+003
Range	: 9.684e+002
Median	: 1.389e+003
Std. Deviation	: 2.454e+002
Mean	: 1.341e+003
95% UCL	: 1.420e+003

Measurement Values

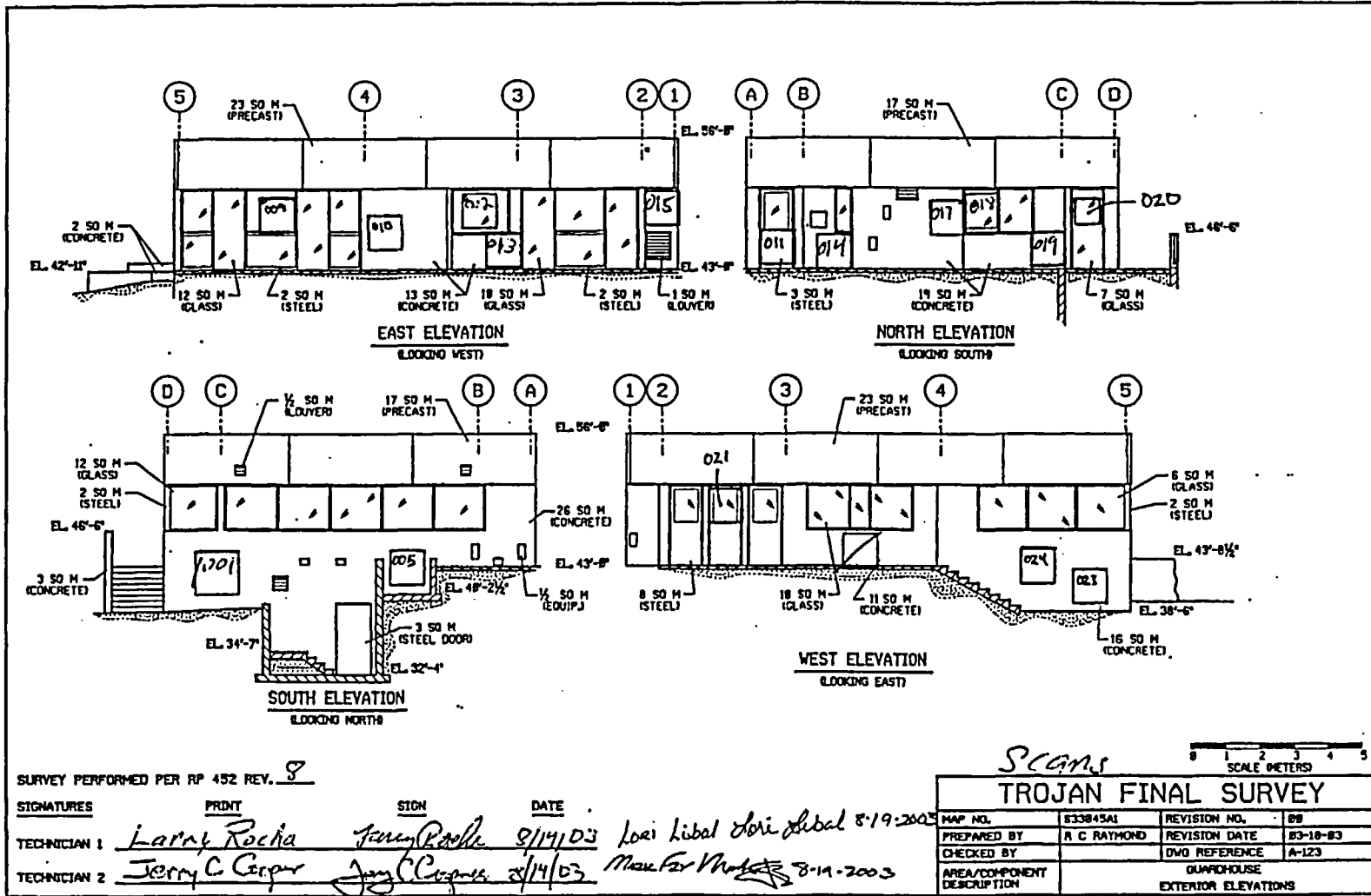
Location	Value	Location	Value
000001	1.397e+003	000018	1.239e+003
000002	1.198e+003	000019	1.379e+003
000003	1.667e+003	000020	8.775e+002
000004	1.797e+003	000021	1.089e+003
000005	1.389e+003	000022	1.403e+003
000006	1.287e+003	000023	1.213e+003
000007	1.531e+003	000024	1.114e+003
000008	1.440e+003	000025	1.719e+003
000009	9.808e+002	000026	1.456e+003
000010	1.501e+003	000027	1.229e+003
000011	8.286e+002	000028	1.661e+003
000012	9.883e+002		
000013	1.389e+003		
000014	1.397e+003		
000015	1.517e+003		
000016	1.373e+003		
000017	1.497e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S33045A
 Survey Unit Name: Guardhouse Exterior Walls, Roof, and Stairs

Classification: Class 3
 Size (m²): 540

Scan Measurement Locations Map

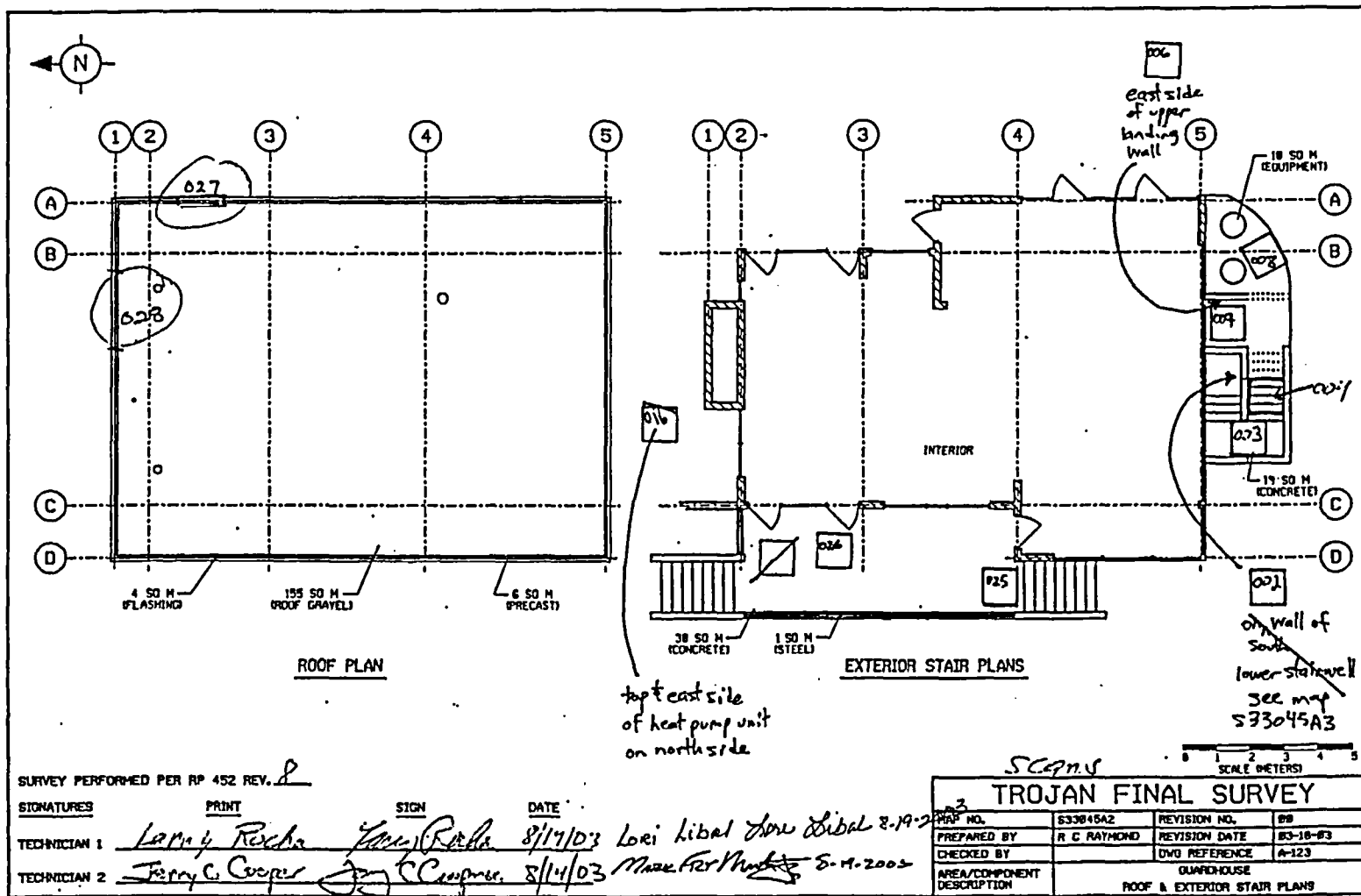


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S33045A
 Survey Unit Name: Guardhouse Exterior Walls, Roof, and Stairs

Classification: Class 3
 Size (m²): 540

Scan Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 8

SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	Lori Libal	[Signature]	8/17/03
TECHNICIAN 2	Jerry C. Cooper	[Signature]	8/14/03

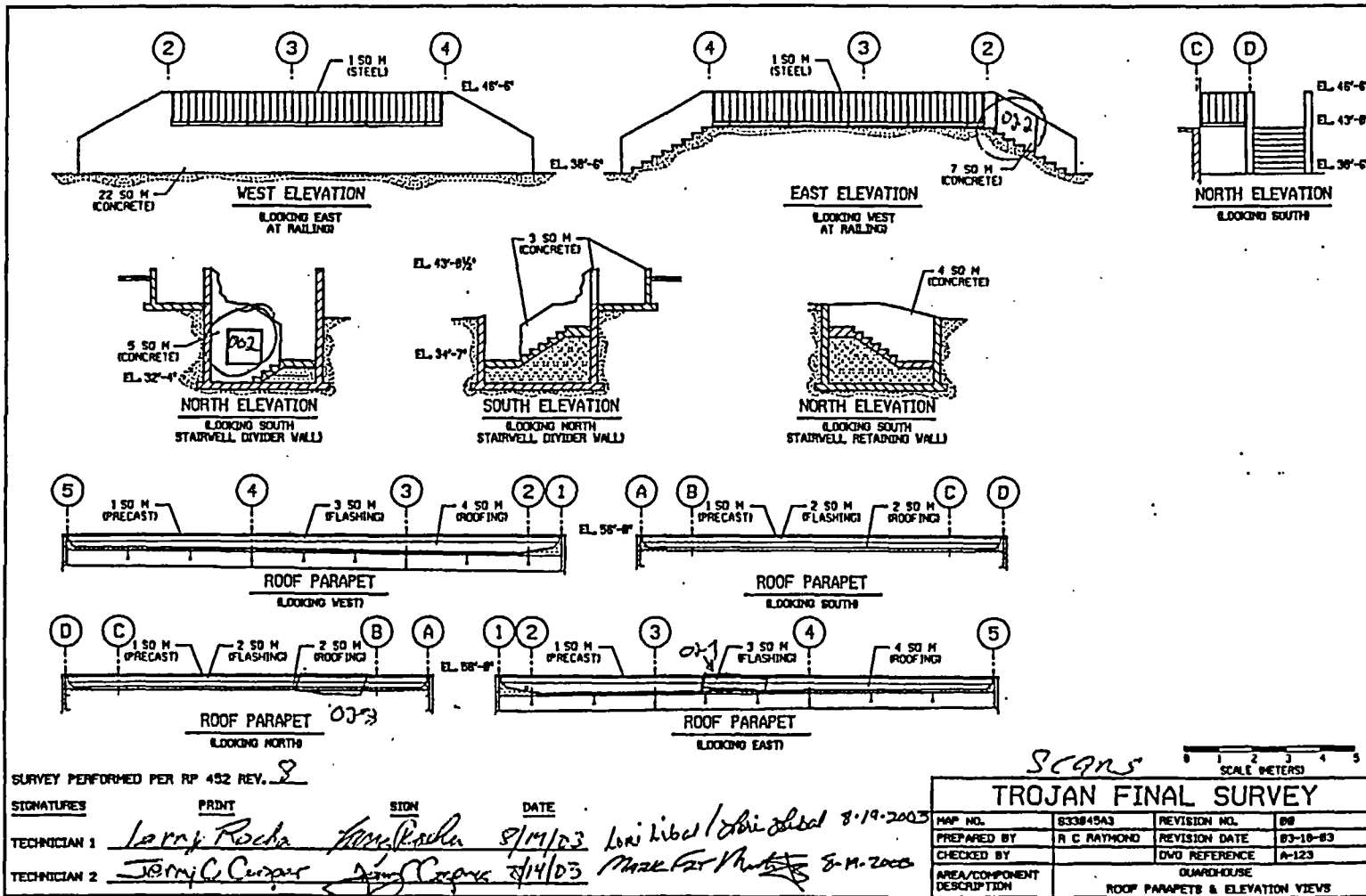
TROJAN FINAL SURVEY			
MAP NO.	S33045A2	REVISION NO.	08
PREPARED BY	R C RAYMOND	REVISION DATE	03-10-03
CHECKED BY		DWG REFERENCE	A-123
AREA/COMPONENT DESCRIPTION	GUARDHOUSE		
	ROOF & EXTERIOR STAIR PLANS		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S33045A
 Survey Unit Name: Guardhouse Exterior Walls, Roof, and Stairs

Classification: Class 3
 Size (m²): 540

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S34045A
 Survey Unit Name: Technical Support Center Exterior Walls,
 Stairwells, and Roof

Classification: Class 3
 Size (m²): 1,700

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	23	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 1.065e+003
 Maximum Value : 1.493e+003
 Range : 4.280e+002
 Median : 1.331e+003
 Std. Deviation : 9.391e+001
 Mean : 1.306e+003
 95% UCL : 1.340e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	1.271e+003	000018	1.340e+003		
000002	1.214e+003	000019	1.331e+003		
000003	1.361e+003	000020	1.493e+003		
000004	1.350e+003	000021	1.065e+003		
000005	1.333e+003	000022	1.217e+003		
000006	1.346e+003	000023	1.452e+003		
000007	1.331e+003				
000008	1.389e+003				
000009	1.269e+003				
000010	1.390e+003				
000011	1.318e+003				
000012	1.321e+003				
000013	1.283e+003				
000014	1.240e+003				
000015	1.352e+003				
000016	1.203e+003				
000017	1.168e+003				

FINAL SURVEY RESULTS SUMMARY

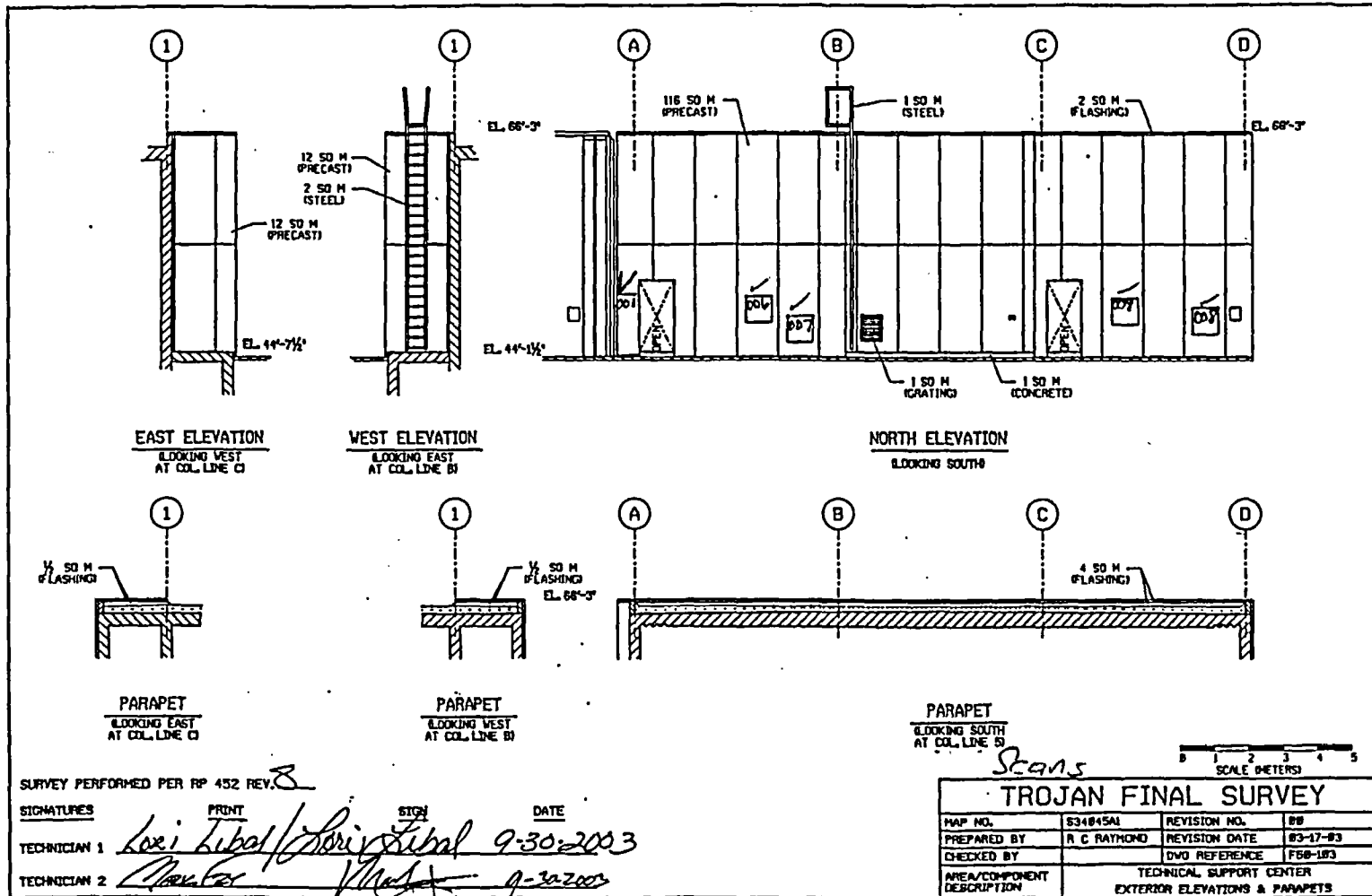
Survey Unit ID Code: S34045A

Survey Unit Name: Technical Support Center Exterior Walls, Stairwells, and Roof

Classification: Class 3

Size (m²): 1,700

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

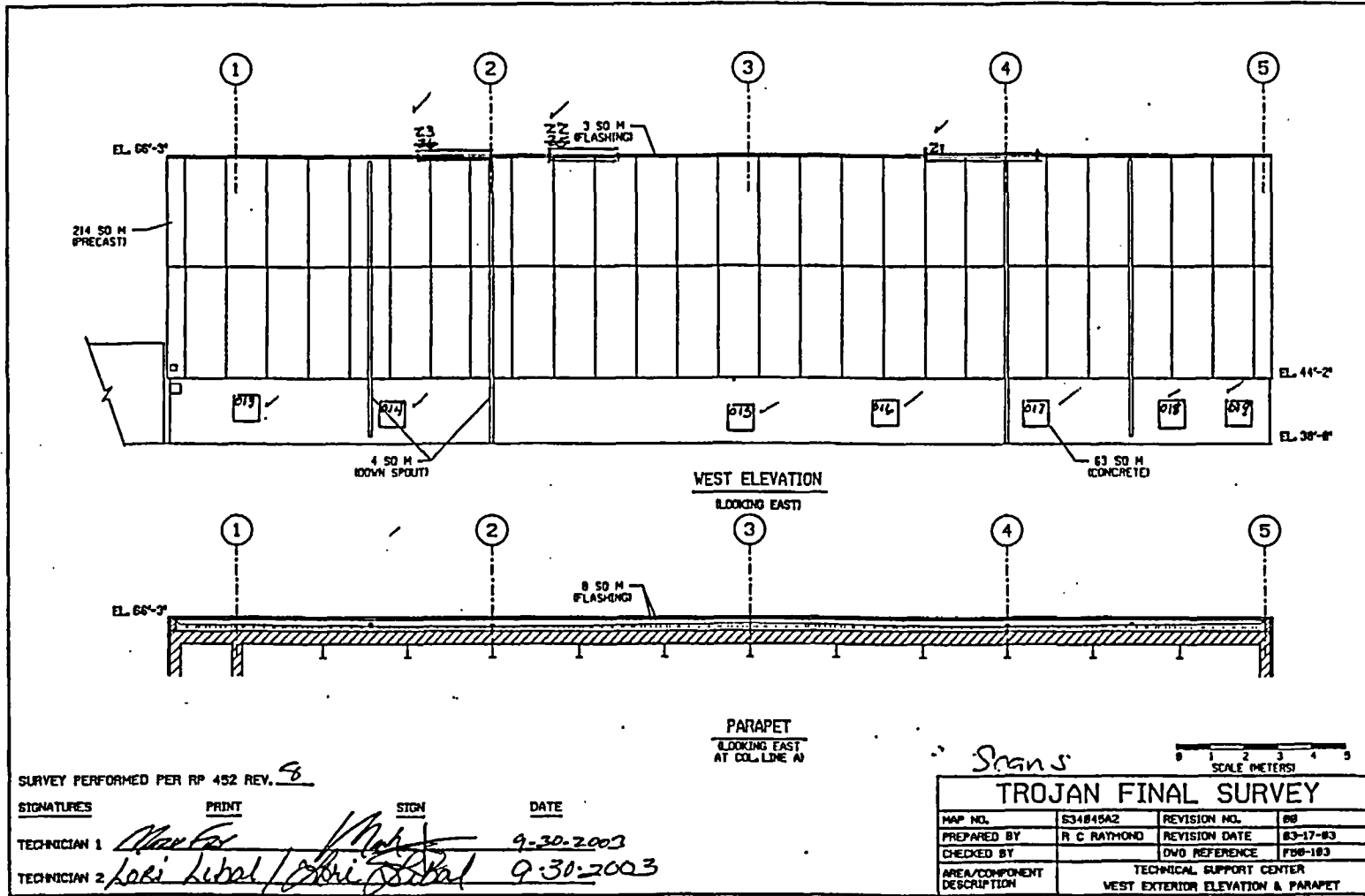
Survey Unit ID Code: S34045A

Survey Unit Name: Technical Support Center Exterior Walls, Stairwells, and Roof

Classification: Class 3

Size (m²): 1,700

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

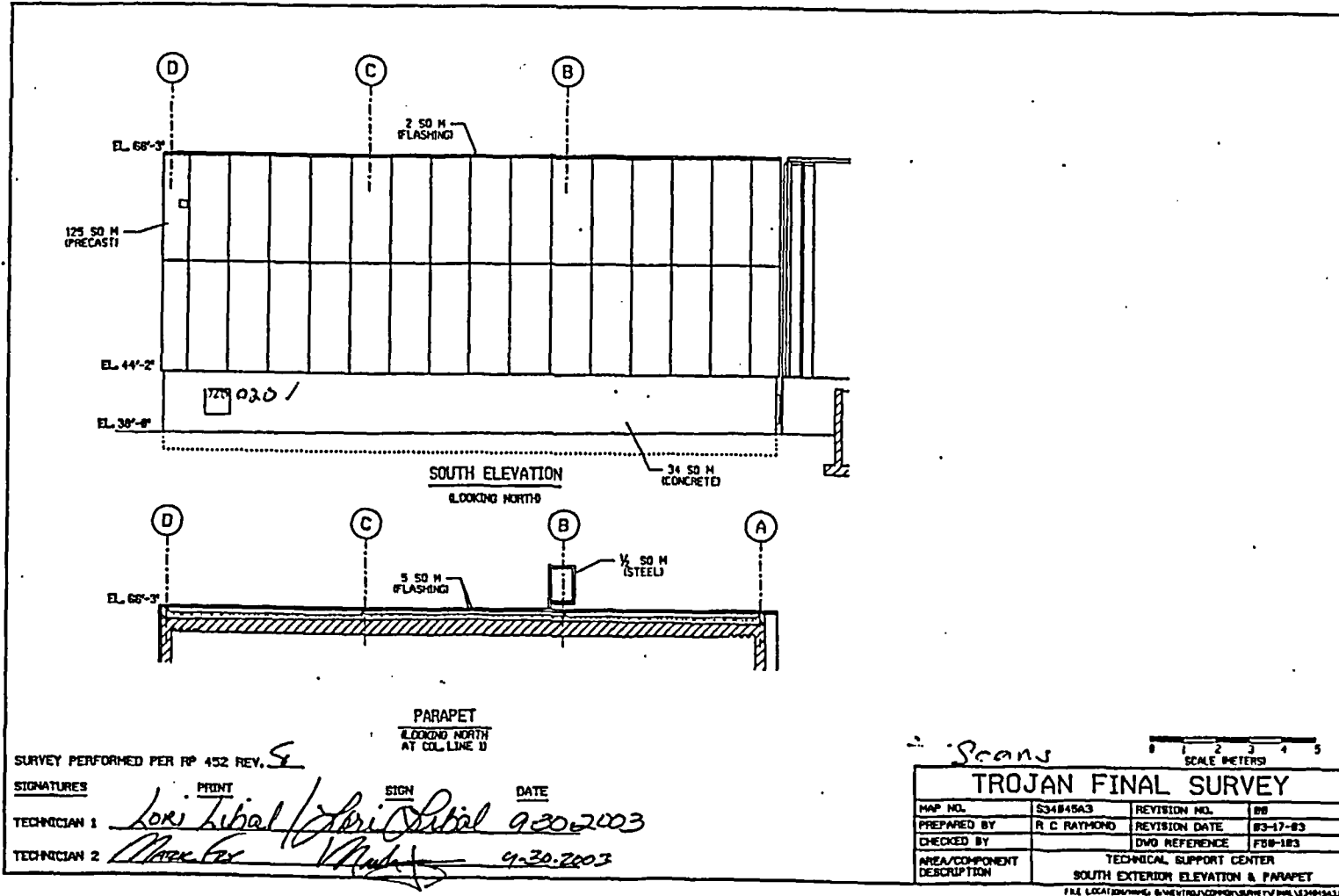
Survey Unit ID Code: S34045A

Survey Unit Name: Technical Support Center Exterior Walls, Stairwells, and Roof

Classification: Class 3

Size (m²): 1,700

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

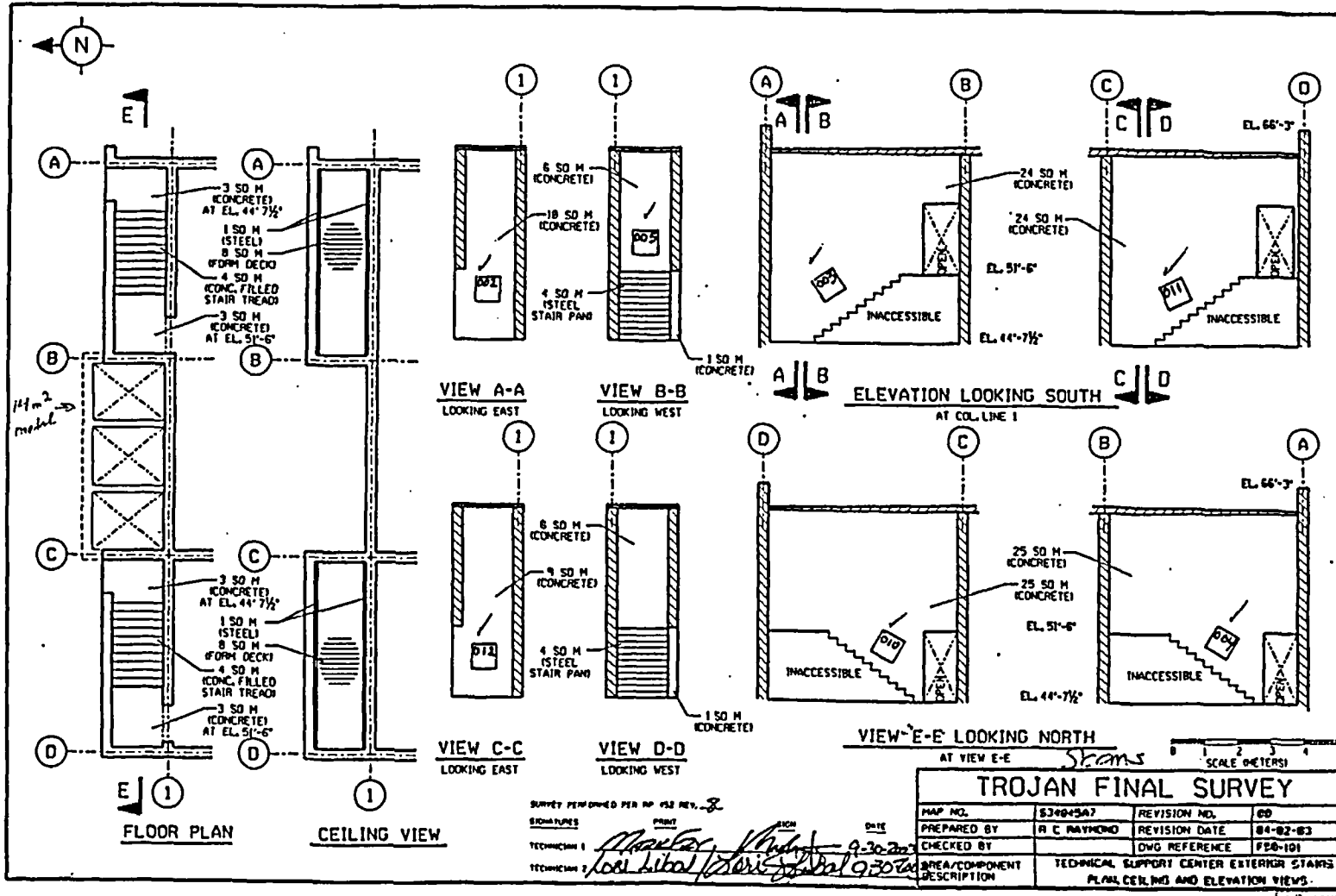
Survey Unit ID Code: S34045A

Survey Unit Name: Technical Support Center Exterior Walls, Stairwells, and Roof

Classification: Class 3

Size (m²): 1,700

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S35045A

Classification: Class 3

Survey Unit Name: Security Building Exterior Walls and Roof

Size (m²): 708

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	19	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:	
Minimum Value	: 8.234e+002
Maximum Value	: 1.285e+003
Range	: 4.616e+002
Median	: 1.011e+003
Std. Deviation	: 1.054e+002
Mean	: 9.999e+002
95% UCL	: 1.042e+003

Measurement Values

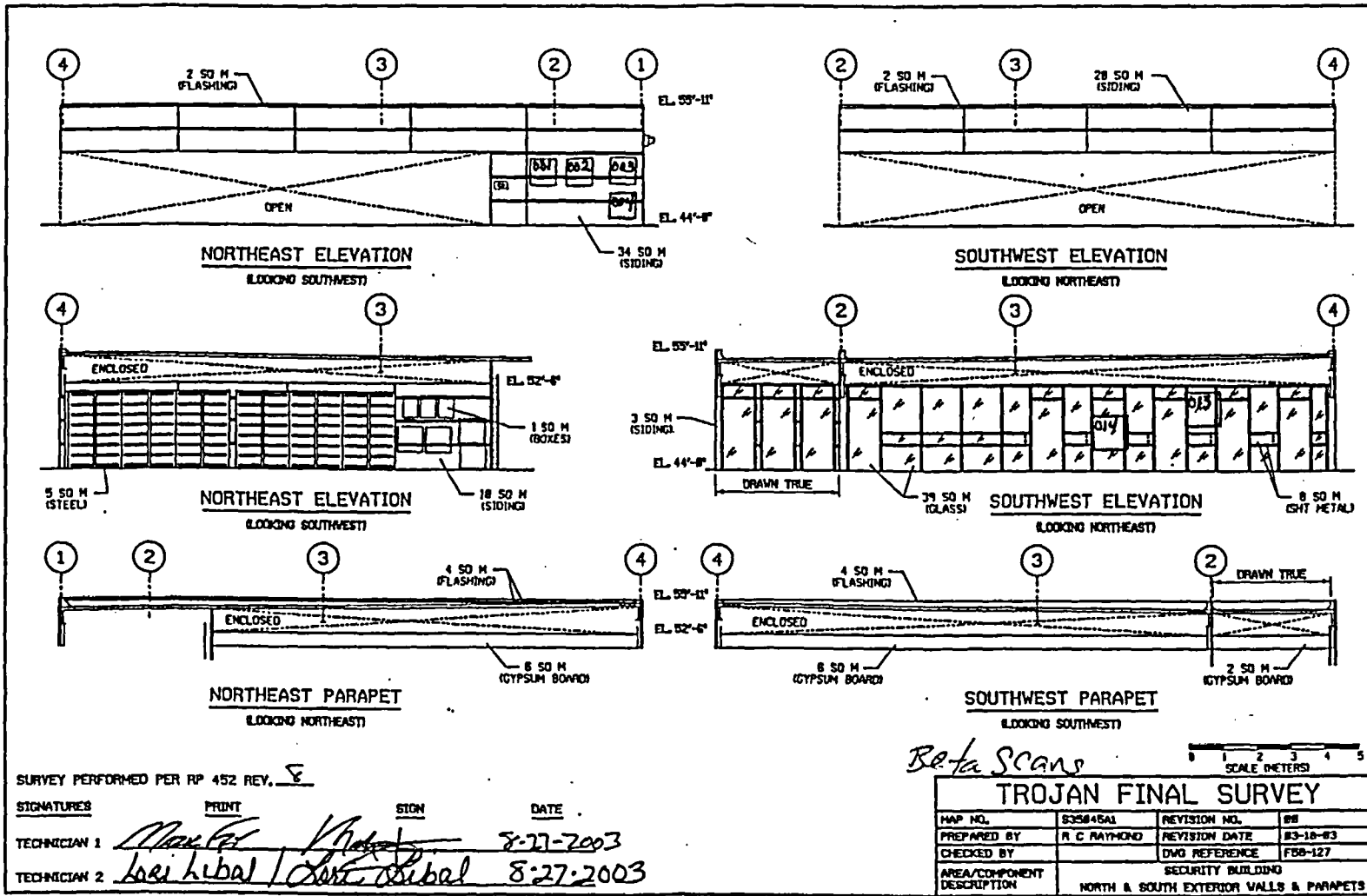
Location	Value	Location	Value
000001	1.035e+003	000018	1.011e+003
000002	1.011e+003	000019	1.016e+003
000003	9.943e+002		
000004	1.095e+003		
000005	9.206e+002		
000006	8.942e+002		
000007	1.012e+003		
000008	1.068e+003		
000009	1.285e+003		
000010	1.096e+003		
000011	1.051e+003		
000012	9.659e+002		
000013	8.262e+002		
000014	8.234e+002		
000015	9.962e+002		
000016	1.003e+003		
000017	8.942e+002		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S35045A
 Survey Unit Name: Security Building Exterior Walls and Roof

Classification: Class 3
 Size (m²): 708

Scan Measurement Locations Map

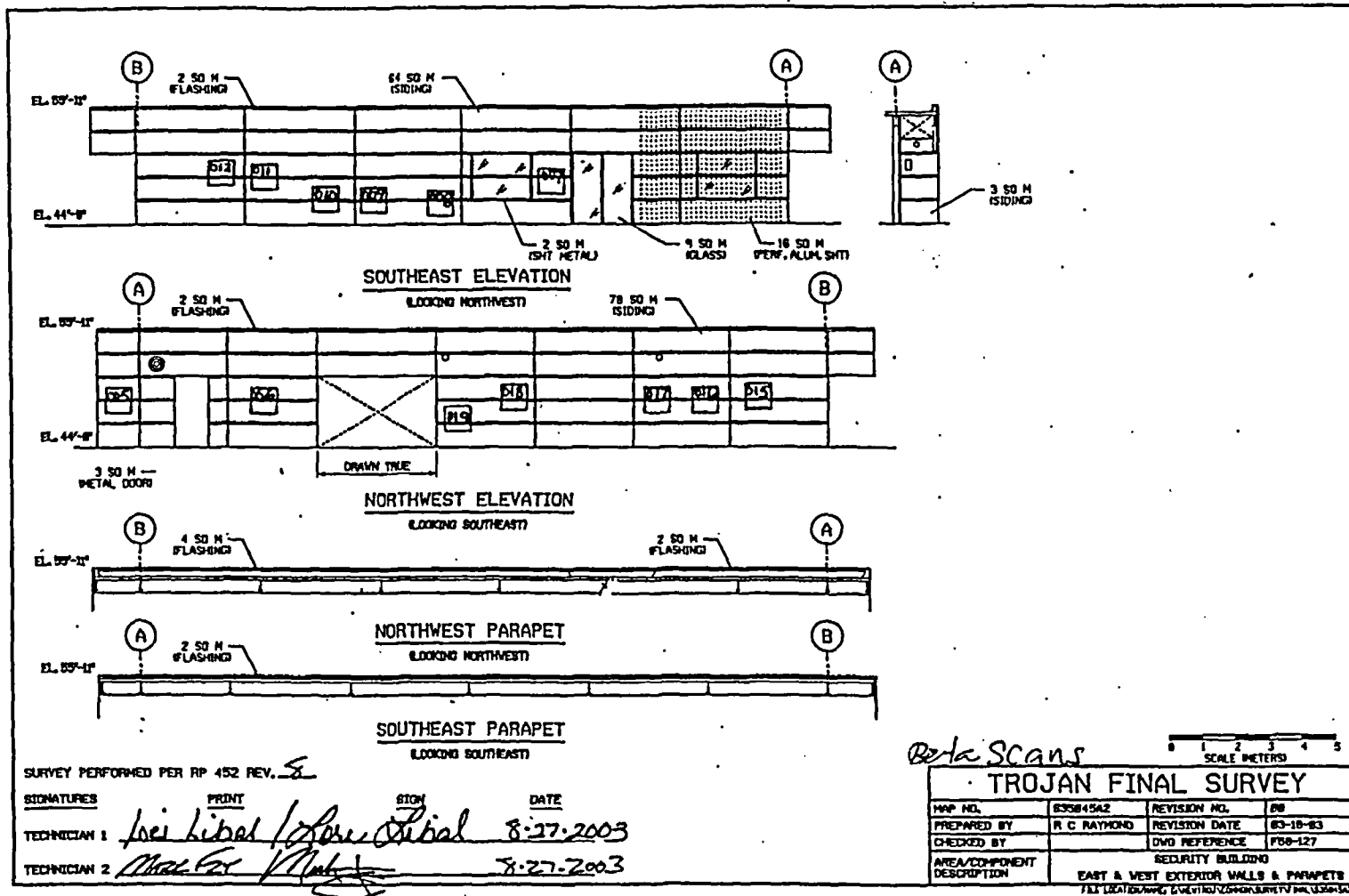


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S35045A
 Survey Unit Name: Security Building Exterior Walls and Roof

Classification: Class 3
 Size (m²): 708

Scan Measurement Locations Map

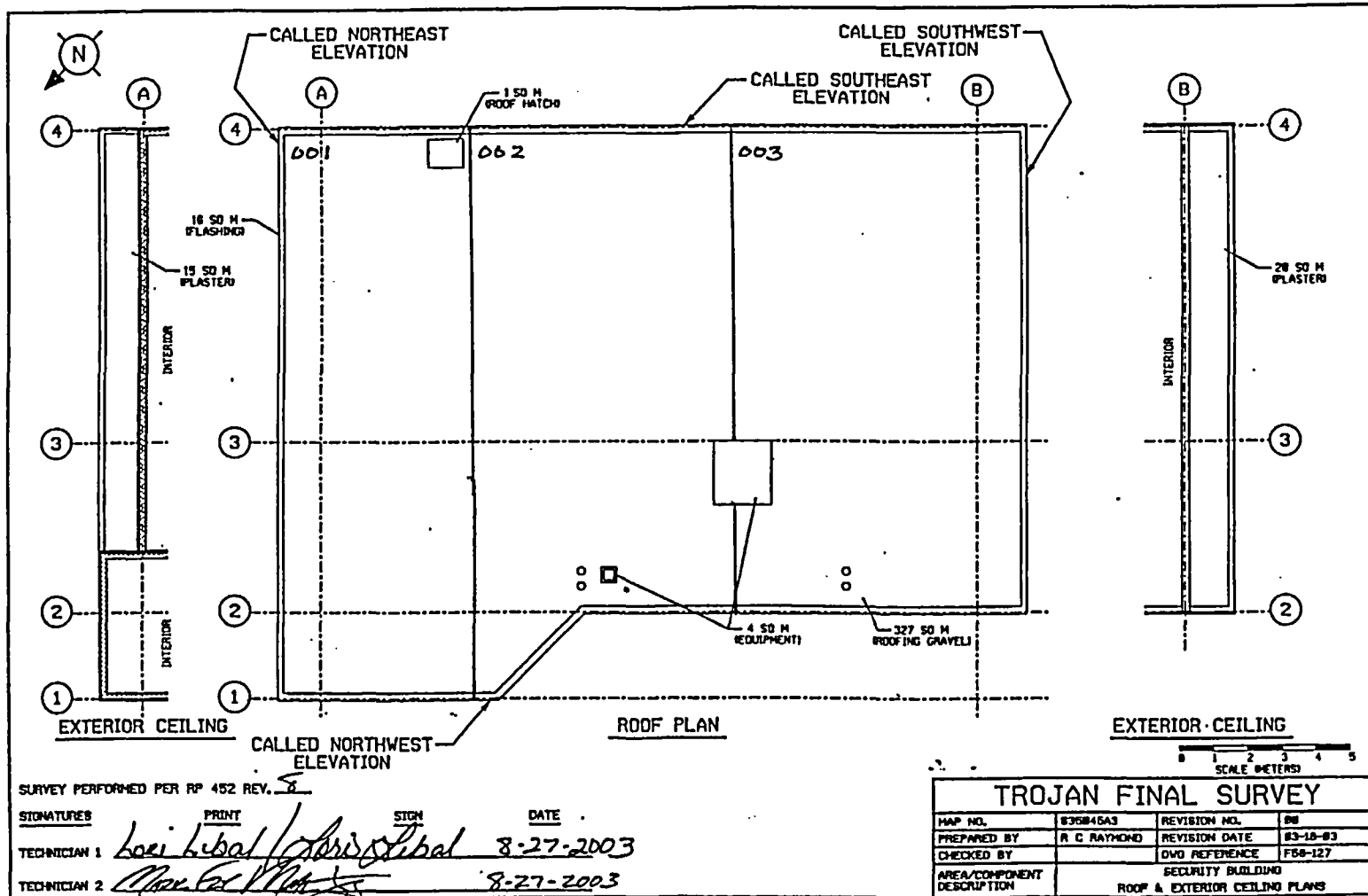


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S35045A
 Survey Unit Name: Security Building Exterior Walls and Roof

Classification: Class 3
 Size (m²): 708

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S36045A
 Survey Unit Name: Trojan Central Building East and North
 Exterior Walls

Classification: Class 3
 Size (m²): 1,468

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	30	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 7.431e+002
 Maximum Value : 1.298e+003
 Range : 5.549e+002
 Median : 1.161e+003
 Std. Deviation : 1.593e+002
 Mean : 1.116e+003
 95% UCL : 1.165e+003

Measurement Values

Location	Value	Location	Value
000001	1.209e+003	000018	9.539e+002
000002	1.135e+003	000019	1.237e+003
000003	1.156e+003	000020	1.232e+003
000004	1.080e+003	000021	1.223e+003
000005	1.166e+003	000022	9.869e+002
000006	1.156e+003	000023	1.272e+003
000007	7.963e+002	000024	1.217e+003
000008	1.092e+003	000025	1.230e+003
000009	7.431e+002	000026	1.250e+003
000010	1.092e+003	000027	1.242e+003
000011	7.999e+002	000028	1.285e+003
000012	1.087e+003	000029	1.298e+003
000013	1.211e+003	000030	1.269e+003
000014	1.004e+003		
000015	9.502e+002		
000016	1.242e+003		
000017	8.659e+002		

FINAL SURVEY RESULTS SUMMARY

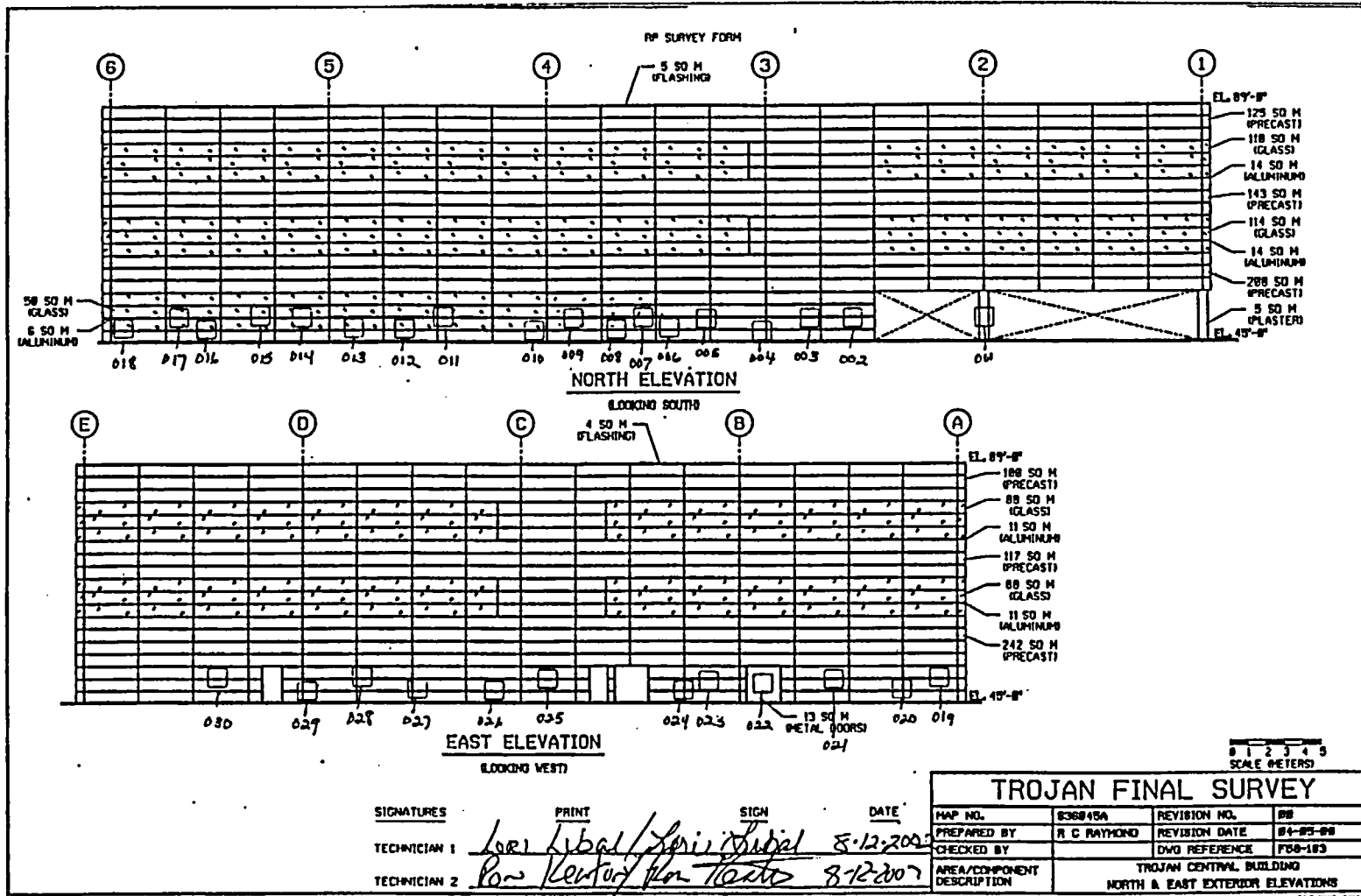
Survey Unit ID Code: S36045A

Survey Unit Name: Trojan Central Building East and North Exterior Walls

Classification: Class 3

Size (m²): 1,468

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S36045B
 Survey Unit Name: Trojan Central Building
 South and West Exterior Walls

Classification: Class 3
 Size (m²): 2,660

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	80	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 8.564e+002
 Maximum Value : 2.041e+003
 Range : 1.185e+003
 Median : 1.406e+003
 Std. Deviation : 2.863e+002
 Mean : 1.434e+003
 95% UCL : 1.488e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	9.895e+002	000018	1.538e+003	000035	1.091e+003
000002	1.100e+003	000019	1.614e+003	000036	1.520e+003
000003	1.154e+003	000020	1.447e+003	000037	1.779e+003
000004	1.155e+003	000021	1.403e+003	000038	1.239e+003
000005	1.135e+003	000022	1.439e+003	000039	9.452e+002
000006	1.243e+003	000023	1.352e+003	000040	1.854e+003
000007	1.523e+003	000024	1.433e+003	000041	1.435e+003
000008	1.533e+003	000025	1.854e+003	000042	1.687e+003
000009	1.370e+003	000026	1.660e+003	000043	2.020e+003
000010	1.264e+003	000027	1.914e+003	000044	1.390e+003
000011	1.329e+003	000028	1.711e+003	000045	1.837e+003
000012	1.339e+003	000029	1.537e+003	000046	1.505e+003
000013	1.380e+003	000030	1.248e+003	000047	1.690e+003
000014	1.351e+003	000031	1.269e+003	000048	1.815e+003
000015	1.360e+003	000032	1.839e+003	000049	1.803e+003
000016	1.370e+003	000033	1.146e+003	000050	1.764e+003
000017	1.406e+003	000034	1.060e+003	000051	1.483e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S36045B
Survey Unit Name: Trojan Central Building
South and West Exterior Walls

Classification: Class 3
Size (m²): 2,660

Scan Measurement Data

<u>Location</u>	<u>Value</u>
000052	1.406e+003
000053	1.836e+003
000054	1.386e+003
000055	1.406e+003
000056	1.691e+003
000057	1.511e+003
000058	2.041e+003
000059	1.894e+003
000060	1.785e+003
000061	1.610e+003
000062	1.352e+003
000063	1.423e+003
000064	1.298e+003
000065	1.491e+003
000066	1.524e+003
000067	1.743e+003
000068	1.615e+003
000069	1.753e+003
000070	1.121e+003
000071	1.307e+003
000072	8.942e+002
000073	9.017e+002
000074	9.017e+002
000075	8.564e+002
000076	1.167e+003
000077	1.208e+003
000078	1.162e+003
000079	1.077e+003
000080	1.050e+003

FINAL SURVEY RESULTS SUMMARY

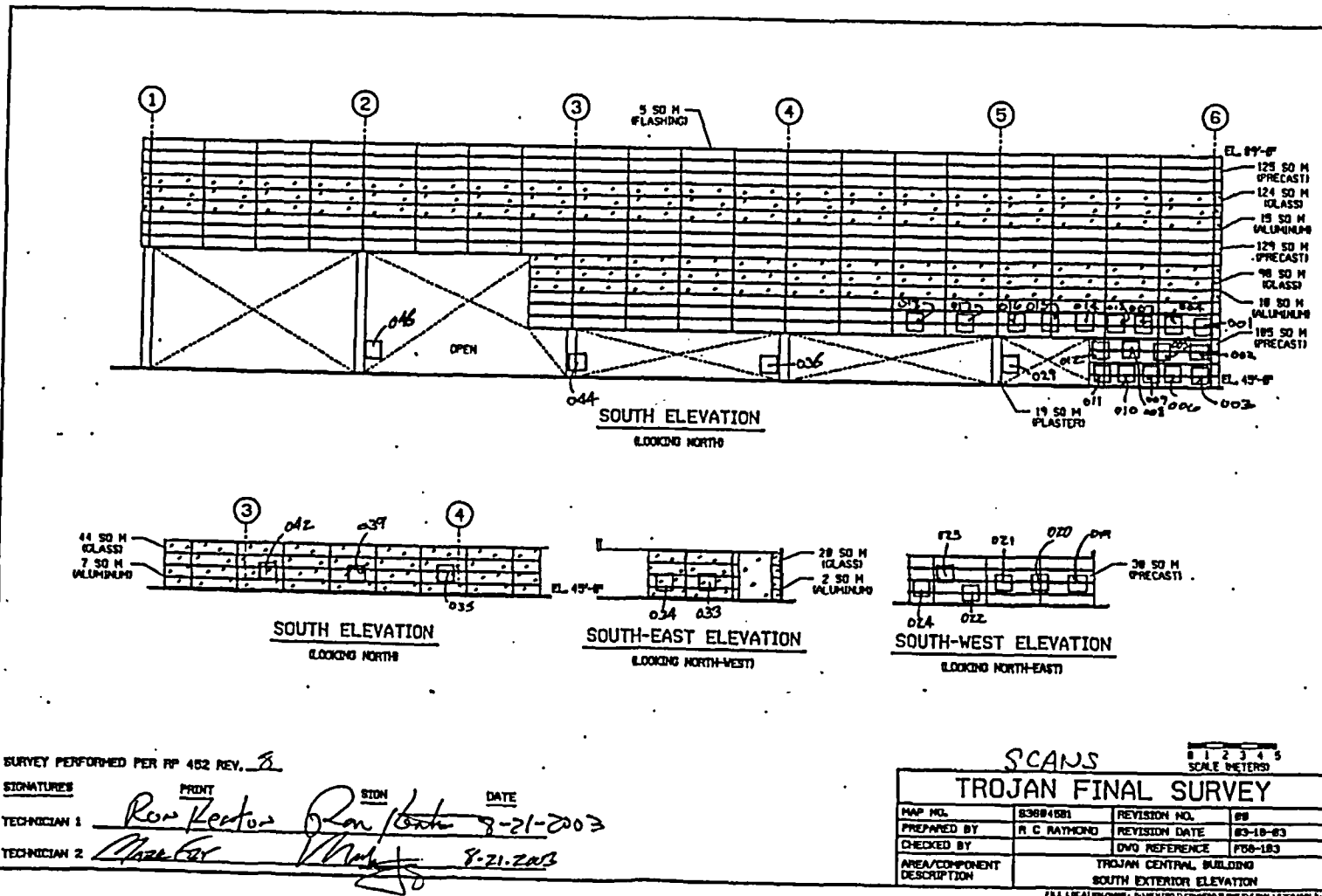
Survey Unit ID Code: S36045B

Survey Unit Name: Trojan Central Building South and West Exterior Walls

Classification: Class 3

Size (m²): 2,660

Scan Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 3

SIGNATURES

PRINT

SIGN

DATE

TECHNICIAN 1

Ron Kester *Ron Kester* 8-21-2003

TECHNICIAN 2

Chris Fox *Chris Fox* 8-21-2003

SCANS

0 1 2 3 4 5
SCALE METERS

TROJAN FINAL SURVEY

MAP NO.	S36045B1	REVISION NO.	00
PREPARED BY	R. C. RAYMOND	REVISION DATE	03-18-03
CHECKED BY		DWG REFERENCE	FS0-183
AREA/COMPONENT DESCRIPTION	TROJAN CENTRAL BUILDING SOUTH EXTERIOR ELEVATION		

FILE LOCATION: \\P:\S\36045B\36045B1.DWG

FINAL SURVEY RESULTS SUMMARY

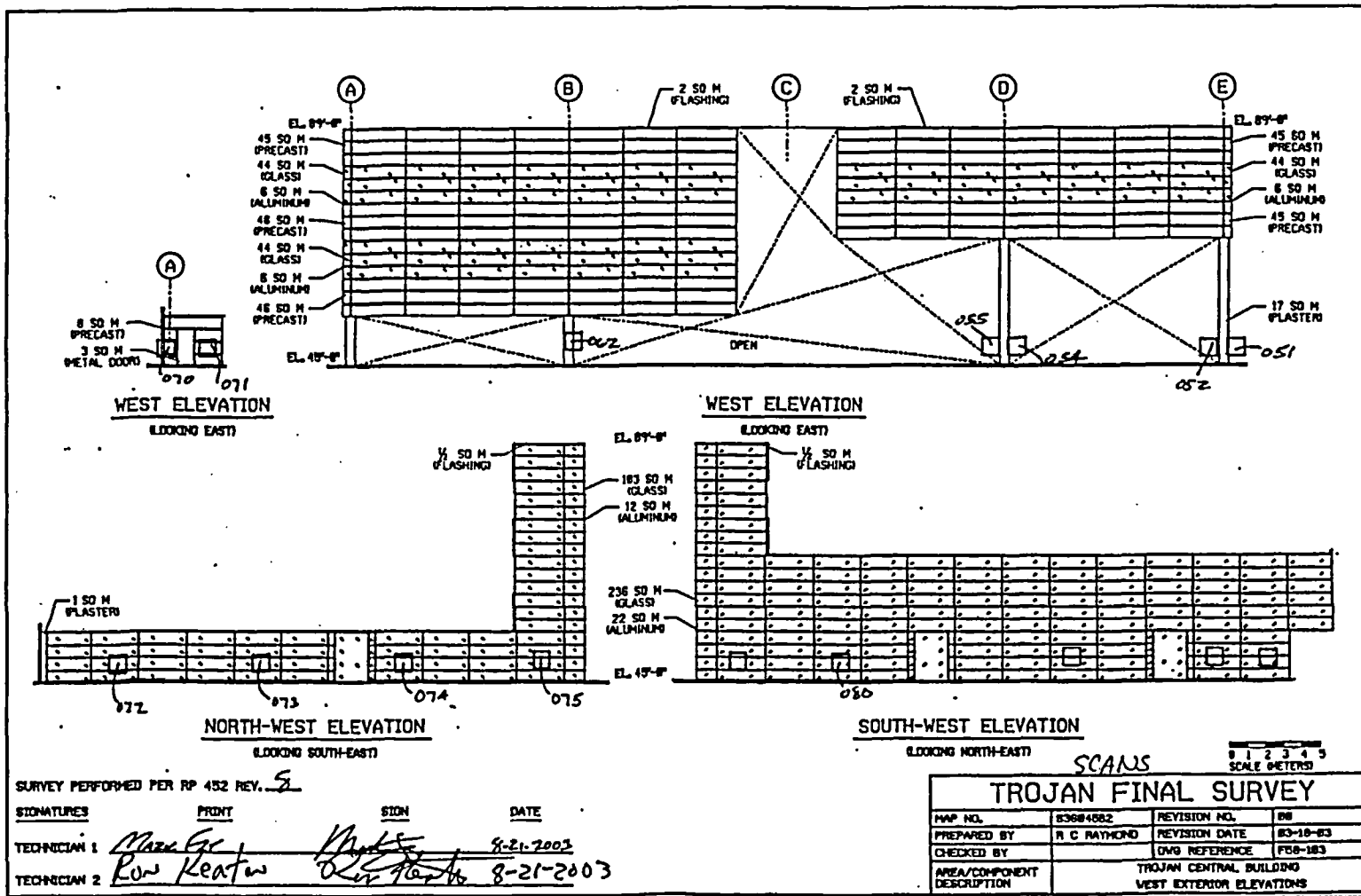
Survey Unit ID Code: S36045B

Survey Unit Name: Trojan Central Building South and West Exterior Walls

Classification: Class 3

Size (m²): 2,660

Scan Measurement Locations Map



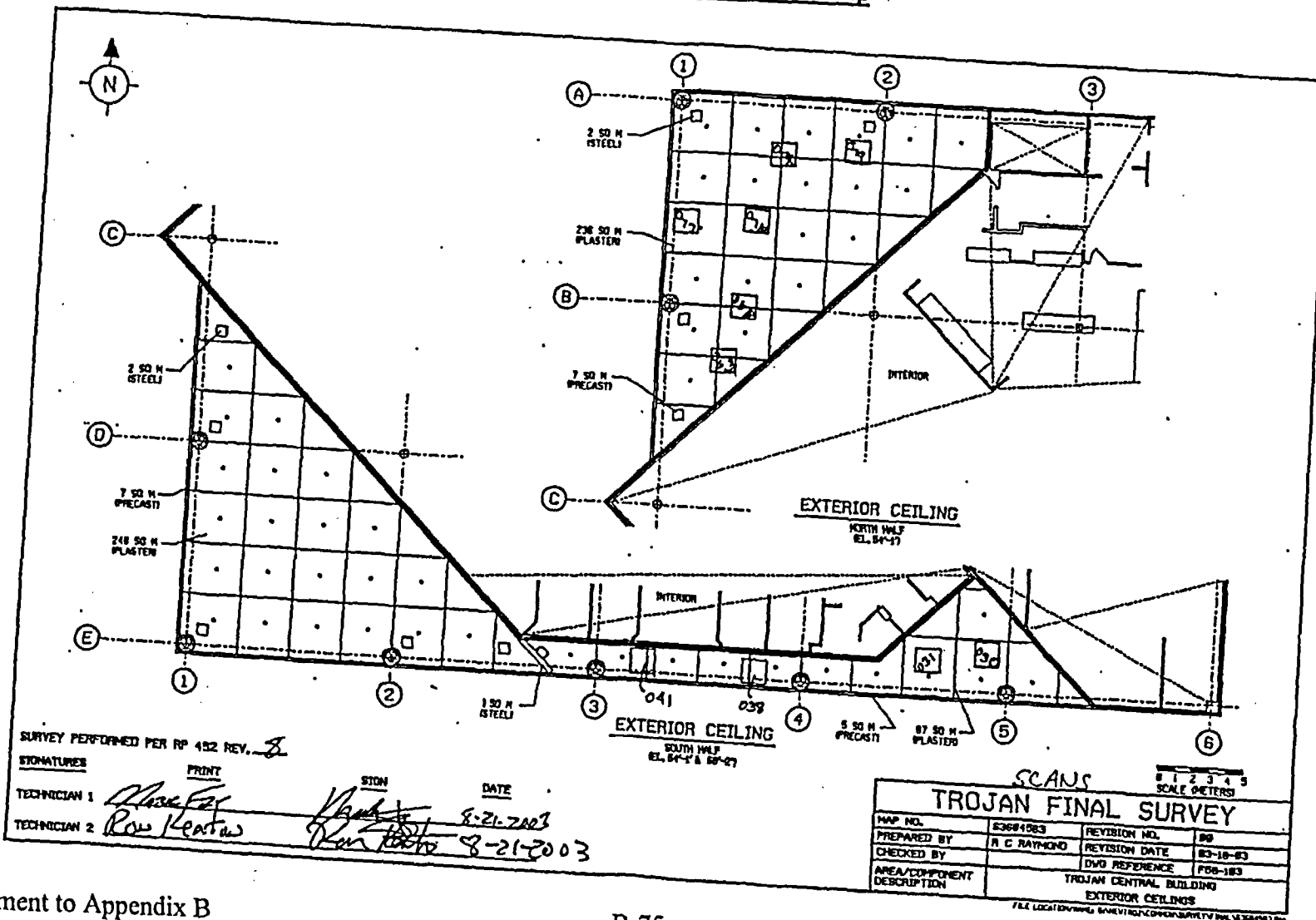
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S36045B

Survey Unit Name: Trojan Central Building South and West Exterior Walls

Classification: Class 3
Size (m²): 2,660

Scan Measurement Locations Map



SURVEY PERFORMED PER RP 432 REV. 3

SIGNATURES

PRINT

STON

DATE

TECHNICIAN 1

TECHNICIAN 2

[Handwritten Signature]
[Handwritten Signature]

[Handwritten Signature]
[Handwritten Signature]

8-21-2003
8-21-2003

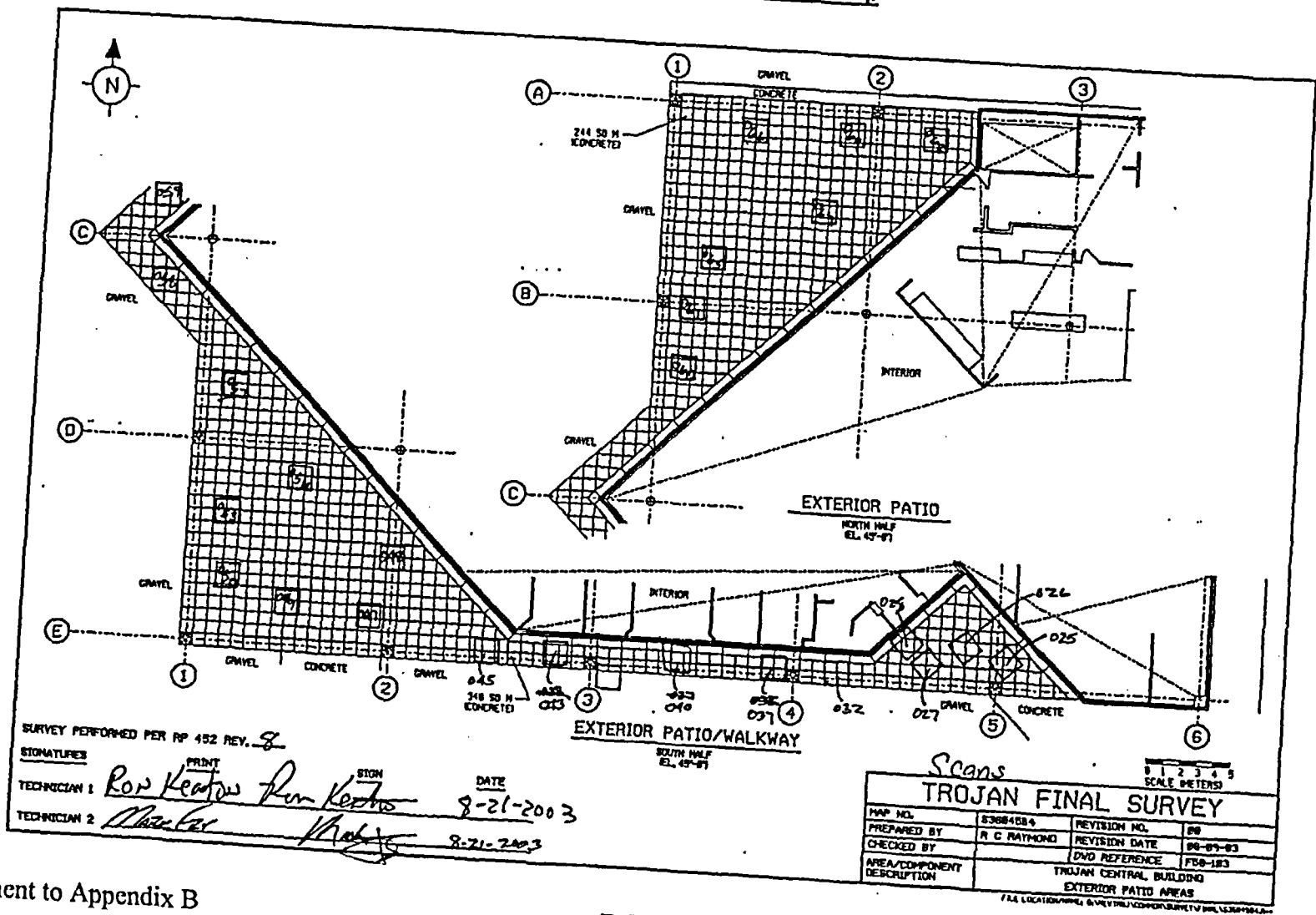
SCANS			
TROJAN FINAL SURVEY			
MAP NO.	E36045B	REVISION NO.	00
PREPARED BY	A C RAYMOND	REVISION DATE	03-18-03
CHECKED BY		DWG REFERENCE	FDG-183
AREA/COMPONENT DESCRIPTION	TROJAN CENTRAL BUILDING EXTERIOR CEILING		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S36045B
 Survey Unit Name: Trojan Central Building South and West Exterior Walls

Classification: Class 3
 Size (m²): 2,660

Scan Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 8
 SIGNATURES: *Ron Keaton* (PRINT), *Ron Keaton* (SIGN), DATE: 8-21-2003
 TECHNICIAN 1: *Ron Keaton*
 TECHNICIAN 2: *Mark Lee* (PRINT), *Mark Lee* (SIGN), DATE: 8-21-2003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S36089A

Survey Unit Name: Trojan Central Building Roof

Classification: Class 3

Size (m²): 3,234

No scan measurements taken.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S37045A

Classification: Class 3

Survey Unit Name: Materials Warehouse Exterior Walls

Size (m²): 1,343

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	27	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:	
Minimum Value :	1.088e+003
Maximum Value :	1.984e+003
Range :	8.960e+002
Median :	1.736e+003
Std. Deviation :	2.435e+002
Mean :	1.650e+003
95% UCL :	1.730e+003

Measurement Values

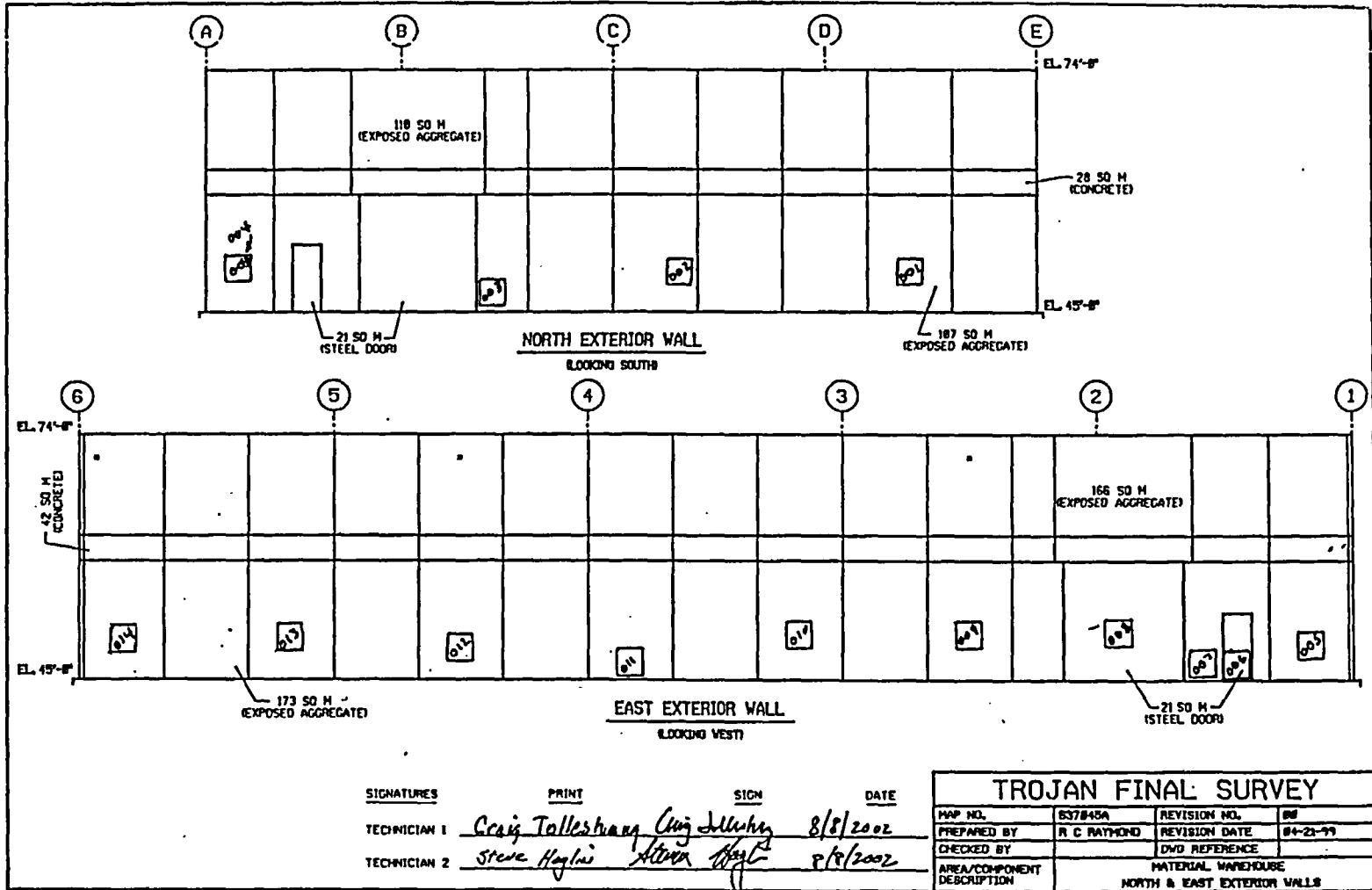
Location	Value	Location	Value
000001	1.749e+003	000018	1.684e+003
000002	1.763e+003	000019	1.267e+003
000003	1.821e+003	000020	1.745e+003
000004	1.660e+003	000021	1.850e+003
000005	1.691e+003	000022	1.740e+003
000006	1.103e+003	000023	1.697e+003
000007	1.795e+003	000024	1.313e+003
000008	1.088e+003	000025	1.667e+003
000009	1.856e+003	000026	1.844e+003
000010	1.574e+003	000027	1.870e+003
000011	1.630e+003		
000012	1.736e+003		
000013	1.789e+003		
000014	1.594e+003		
000015	1.984e+003		
000016	1.852e+003		
000017	1.188e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S37045A
 Survey Unit Name: Materials Warehouse Exterior Walls

Classification: Class 3
 Size (m²): 1,343

Scan Measurement Locations Map

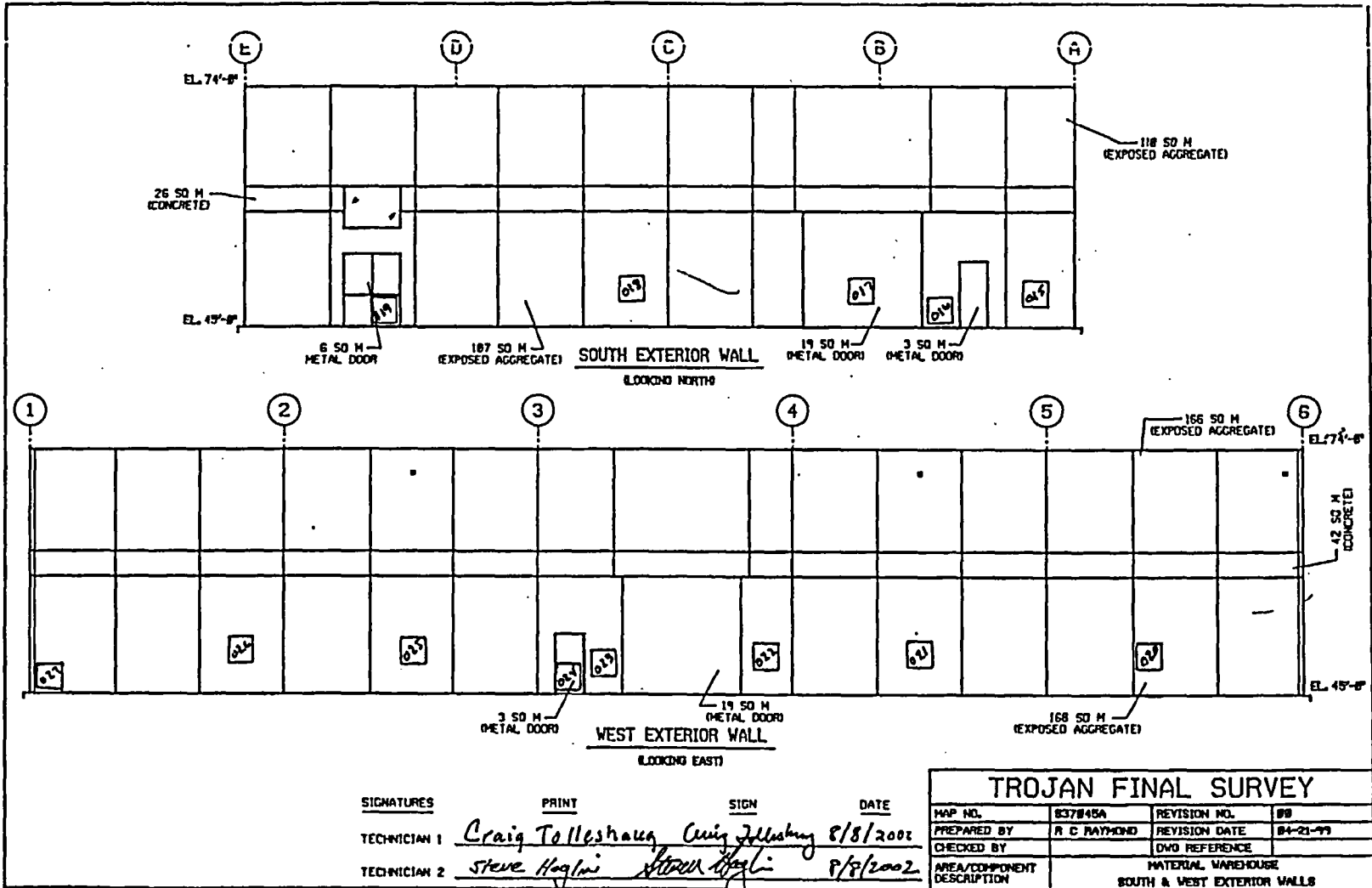


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S37045A
 Survey Unit Name: Materials Warehouse Exterior Walls

Classification: Class 3
 Size (m²): 1,343

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S37074A
Survey Unit Name: Materials Warehouse Roof

Classification: Class 3
Size (m²): 1,368

No scan measurements taken.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S38045B
 Survey Unit Name: Discharge and Dilution Structure Exterior

Classification: Class 3
 Size (m²): 228

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	16	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 9.582e+002
 Maximum Value : 1.888e+003
 Range : 9.298e+002
 Median : 1.434e+003
 Std. Deviation : 2.760e+002
 Mean : 1.390e+003
 95% UCL : 1.510e+003

Measurement Values

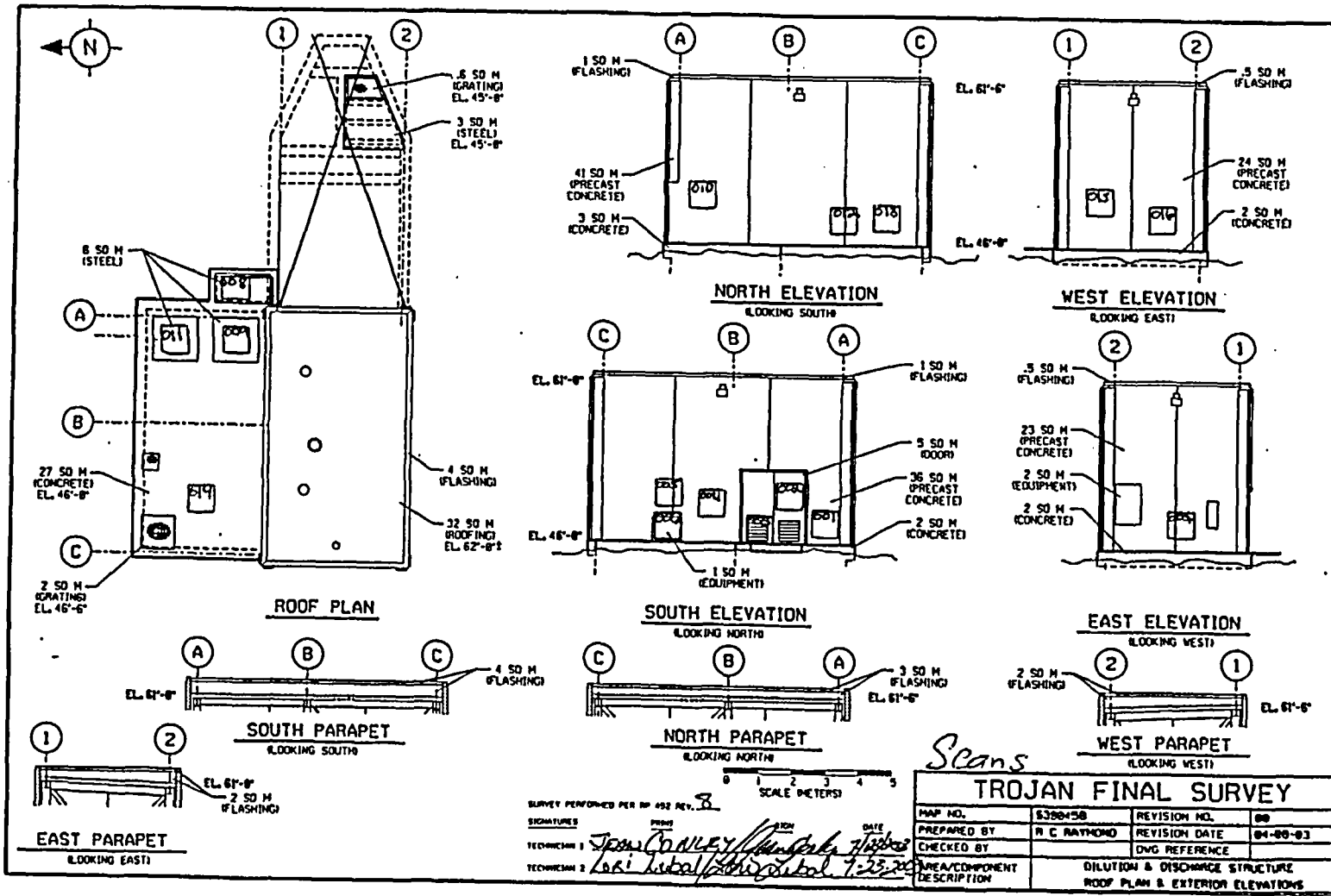
Location	Value	Location	Value
000001	1.323e+003		
000002	9.582e+002		
000003	9.658e+002		
000004	1.401e+003		
000005	1.482e+003		
000006	1.161e+003		
000007	1.569e+003		
000008	1.884e+003		
000009	1.087e+003		
000010	1.499e+003		
000011	1.188e+003		
000012	1.330e+003		
000013	1.522e+003		
000014	1.888e+003		
000015	1.514e+003		
000016	1.467e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S38045B
 Survey Unit Name: Discharge and Dilution Structure Exterior

Classification: Class 3
 Size (m²): 228

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S41029A
 Survey Unit Name: Circulating Water Pump Pit Walls, Floor,
 Grating, and Equipment

Classification: Class 3
 Size (m²): 1,050

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	53	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 8.007e+002
 Maximum Value : 3.813e+003
 Range : 3.012e+003
 Median : 1.451e+003
 Std. Deviation : 5.153e+002
 Mean : 1.515e+003
 95% UCL : 1.634e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	1.585e+003	000018	1.284e+003	000035	1.511e+003
000002	1.563e+003	000019	1.258e+003	000036	1.142e+003
000003	1.587e+003	000020	1.271e+003	000037	8.007e+002
000004	1.581e+003	000021	1.182e+003	000038	1.030e+003
000005	1.512e+003	000022	1.294e+003	000039	1.098e+003
000006	1.461e+003	000023	1.149e+003	000040	9.329e+002
000007	1.419e+003	000024	1.073e+003	000041	1.451e+003
000008	1.435e+003	000025	1.280e+003	000042	1.380e+003
000009	1.564e+003	000026	1.536e+003	000043	1.433e+003
000010	1.636e+003	000027	1.528e+003	000044	1.244e+003
000011	1.909e+003	000028	1.600e+003	000045	1.332e+003
000012	1.897e+003	000029	1.540e+003	000046	1.235e+003
000013	1.750e+003	000030	1.521e+003	000047	1.688e+003
000014	2.964e+003	000031	9.858e+002	000048	1.782e+003
000015	2.543e+003	000032	1.111e+003	000049	1.852e+003
000016	2.507e+003	000033	9.471e+002	000050	1.587e+003
000017	3.813e+003	000034	1.437e+003	000051	1.959e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S41029A

Survey Unit Name: Circulating Water Pump Pit Walls, Floor,
Grating, and Equipment

Classification: Class 3

Size (m²): 1,050

Scan Measurement Data

<u>Location</u>	<u>Value</u>
000052	1.174e+003
000053	9.414e+002

FINAL SURVEY RESULTS SUMMARY

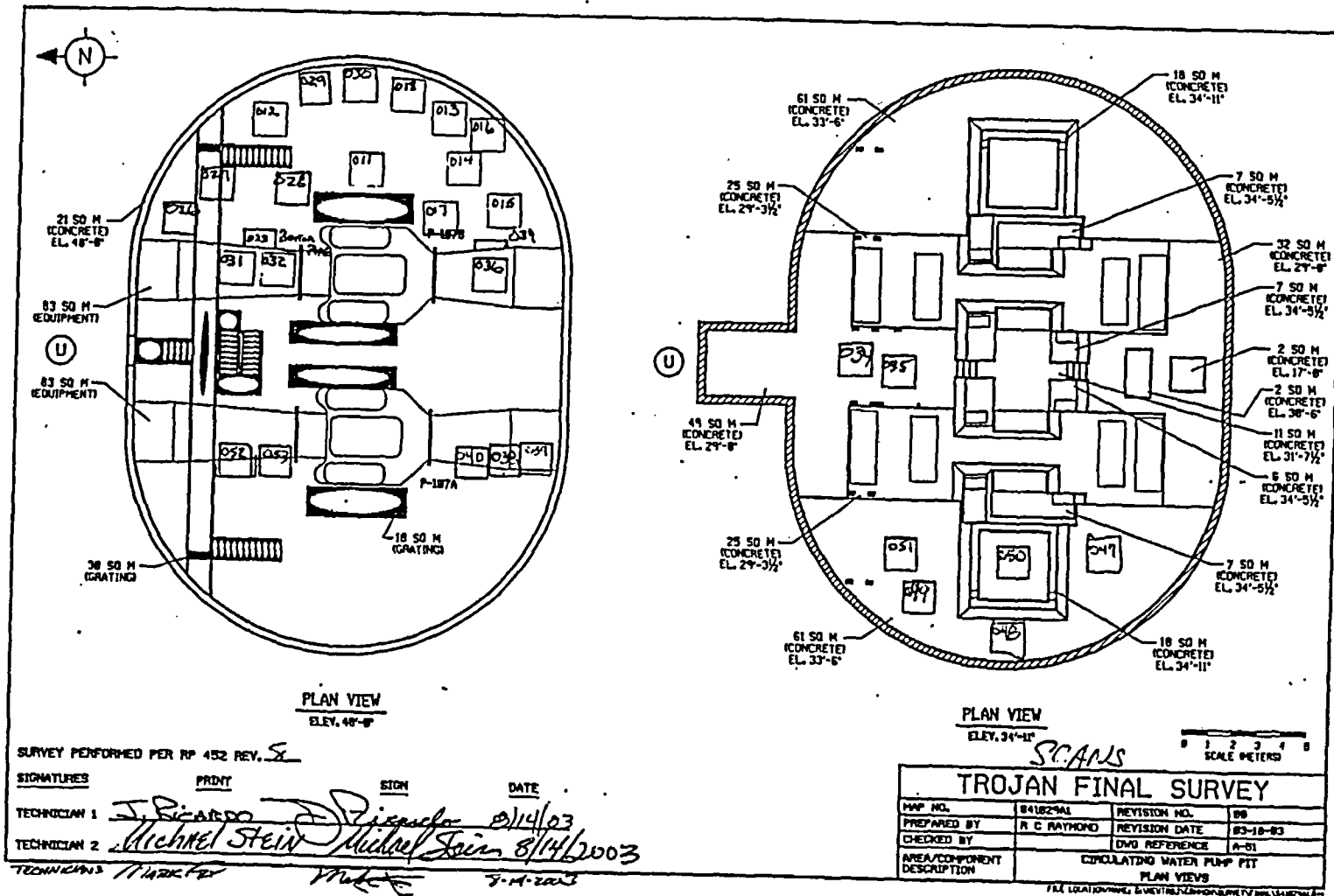
Survey Unit ID Code: S41029A

Survey Unit Name: Circulating Water Pump Pit Walls, Floor, Grating, and Equipment

Classification: Class 3

Size (m²): 1,050

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

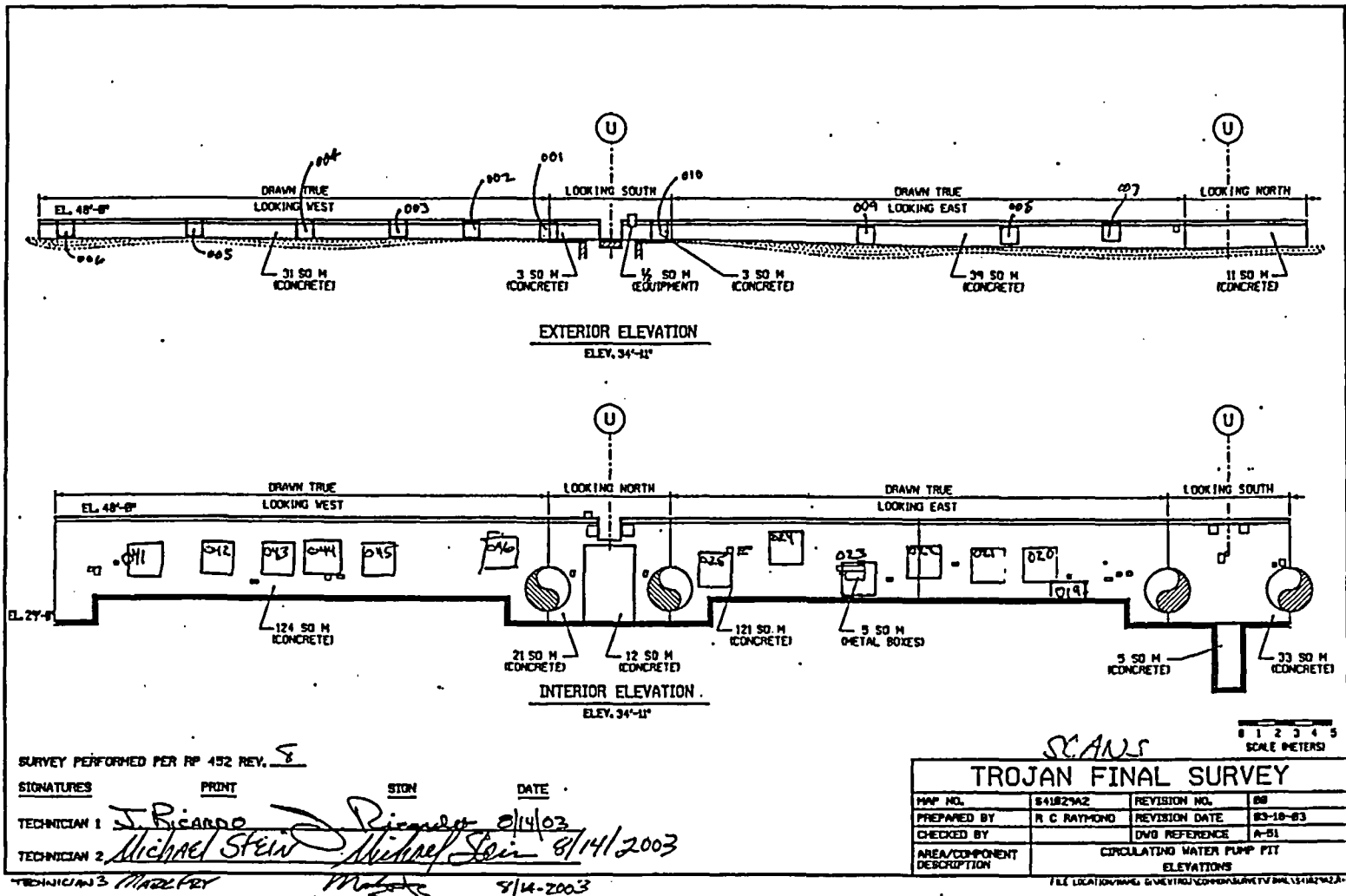
Survey Unit ID Code: S41029A

Survey Unit Name: Circulating Water Pump Pit Walls, Floor, Grating, and Equipment

Classification: Class 3

Size (m²): 1,050

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S42045A

Classification: Class 3

Survey Unit Name: Transformers, Dividing Walls, and Equipment

Size (m²): 2,826

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	48	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:	
Minimum Value	: 8.078e+002
Maximum Value	: 1.919e+003
Range	: 1.111e+003
Median	: 1.440e+003
Std. Deviation	: 3.130e+002
Mean	: 1.412e+003
95% UCL	: 1.488e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	1.461e+003	000018	1.457e+003	000035	1.650e+003
000002	1.387e+003	000019	1.908e+003	000036	1.555e+003
000003	1.349e+003	000020	1.885e+003	000037	1.796e+003
000004	1.015e+003	000021	1.844e+003	000038	1.116e+003
000005	9.103e+002	000022	1.892e+003	000039	1.058e+003
000006	1.461e+003	000023	1.352e+003	000040	1.068e+003
000007	1.435e+003	000024	1.491e+003	000041	1.713e+003
000008	1.411e+003	000025	1.442e+003	000042	1.919e+003
000009	1.435e+003	000026	1.430e+003	000043	1.717e+003
000010	8.168e+002	000027	1.335e+003	000044	1.653e+003
000011	1.024e+003	000028	8.078e+002	000045	1.732e+003
000012	9.678e+002	000029	9.723e+002	000046	1.705e+003
000013	1.438e+003	000030	9.714e+002	000047	1.414e+003
000014	1.422e+003	000031	9.687e+002	000048	1.054e+003
000015	1.871e+003	000032	1.593e+003		
000016	1.443e+003	000033	1.484e+003		
000017	1.443e+003	000034	1.491e+003		

FINAL SURVEY RESULTS SUMMARY

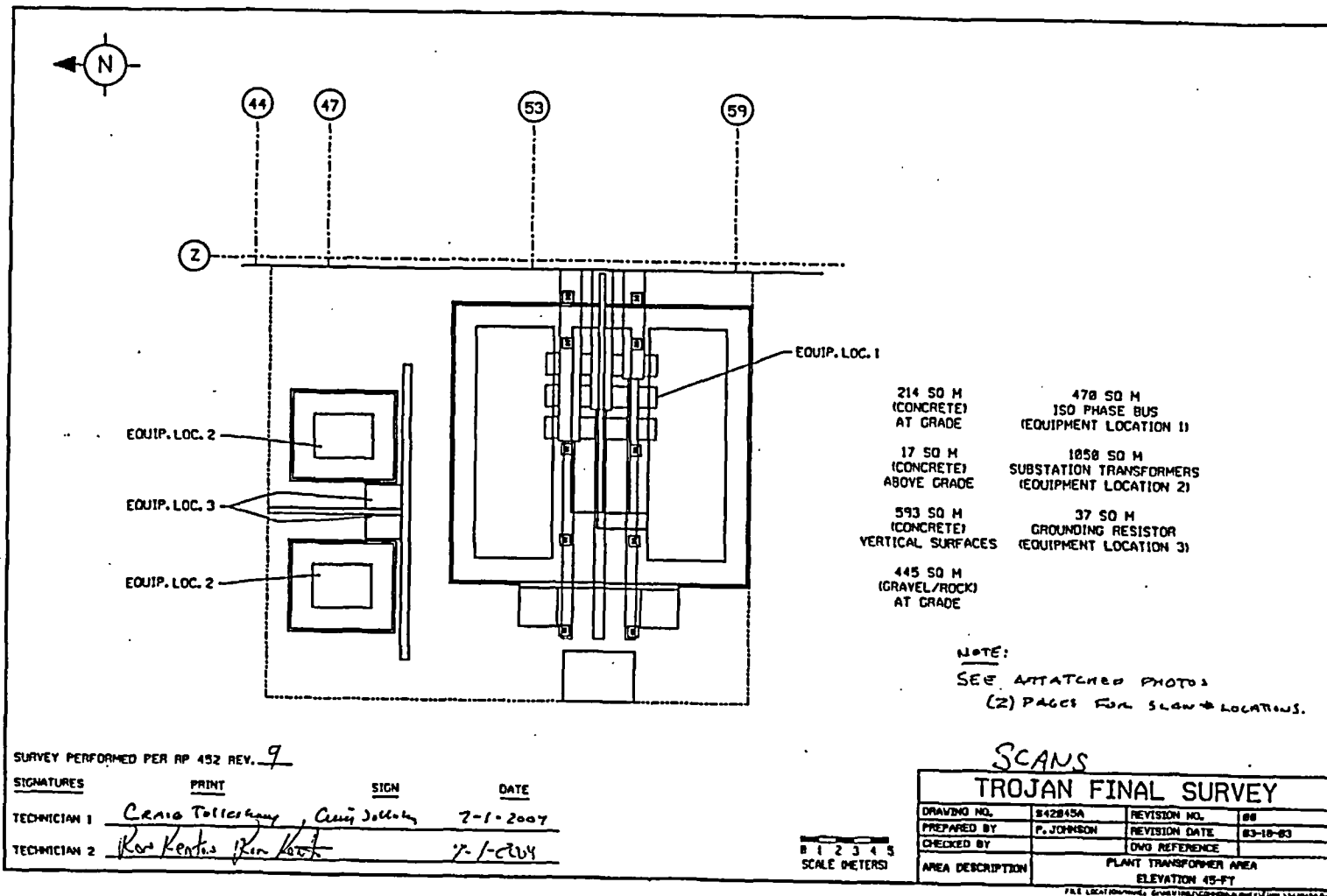
Survey Unit ID Code: S42045A

Survey Unit Name: Transformers, Dividing Walls, and Equipment

Classification: Class 3

Size (m²): 2,826

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S42045A

Classification: Class 3

Survey Unit Name: Transformers, Dividing Walls, and Equipment

Size (m²): 2,826

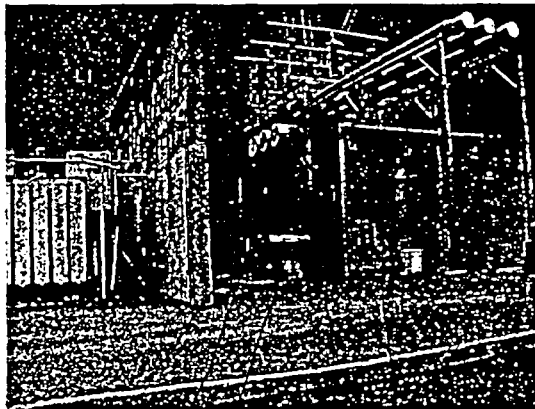
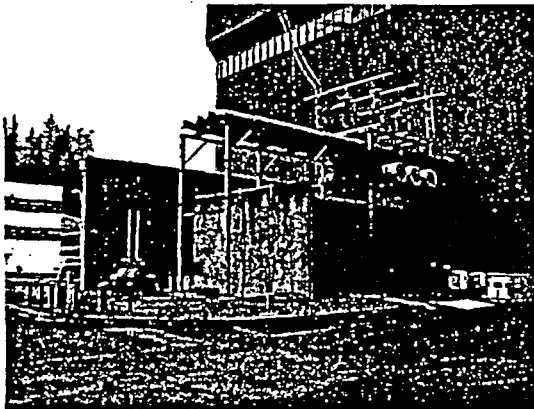
Scan Measurement Locations Map



008 wall

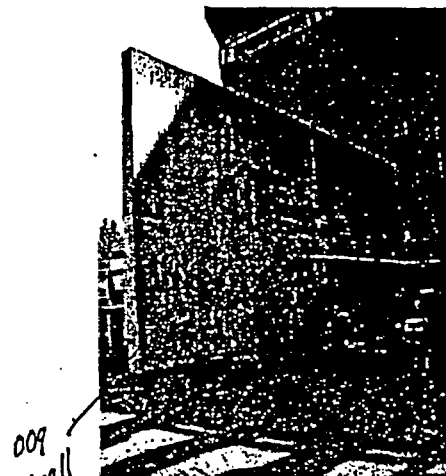


001-003: wall
004: sup part
005: support



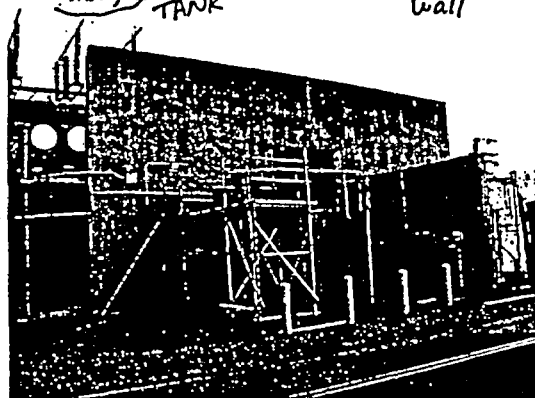
012 (BACK SIDE)
010 TANK

013 wall



009 wall

006, 007: wall



Per Kertus Per Keith 7-1-2004

FINAL SURVEY RESULTS SUMMARY

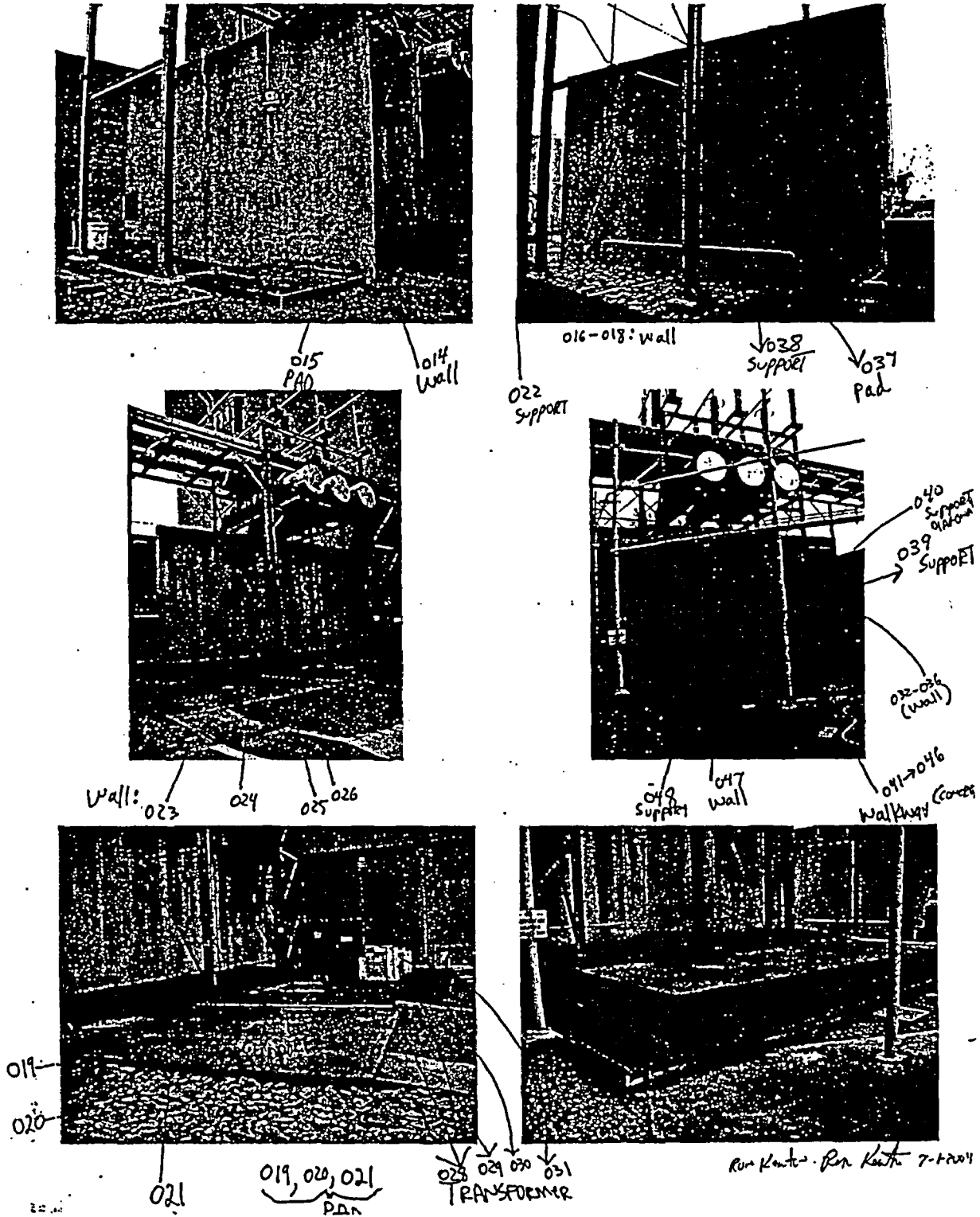
Survey Unit ID Code: S42045A

Survey Unit Name: Transformers, Dividing Walls, and Equipment

Classification: Class 3

Size (m²): 2,826

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S43020A
 Survey Unit Name: Oily Water Separator
 (Formerly Identified as P62065A)

Classification: Class 2
 Size (m²): 397

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	119	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 1.458e+003
 Maximum Value : 3.514e+003
 Range : 2.056e+003
 Median : 2.505e+003
 Std. Deviation : 4.202e+002
 Mean : 2.529e+003
 95% UCL : 2.593e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	1.730e+003	000018	2.295e+003	000035	3.200e+003
000002	1.800e+003	000019	2.444e+003	000036	3.068e+003
000003	1.821e+003	000020	2.023e+003	000037	3.296e+003
000004	1.897e+003	000021	2.415e+003	000038	3.092e+003
000005	1.800e+003	000022	2.222e+003	000039	3.339e+003
000006	1.854e+003	000023	2.516e+003	000040	3.373e+003
000007	1.871e+003	000024	2.412e+003	000041	3.414e+003
000008	1.811e+003	000025	2.585e+003	000042	3.164e+003
000009	1.657e+003	000026	2.472e+003	000043	3.133e+003
000010	1.458e+003	000027	2.420e+003	000044	3.196e+003
000011	1.610e+003	000028	2.828e+003	000045	3.242e+003
000012	1.605e+003	000029	2.290e+003	000046	2.985e+003
000013	1.601e+003	000030	2.627e+003	000047	3.276e+003
000014	2.229e+003	000031	2.504e+003	000048	3.188e+003
000015	2.424e+003	000032	2.947e+003	000049	3.254e+003
000016	2.193e+003	000033	3.137e+003	000050	3.514e+003
000017	2.348e+003	000034	2.912e+003	000051	3.127e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S43020A
Survey Unit Name: Oily Water Separator
(Formerly Identified as P62065A)

Classification: Class 2
Size (m²): 397

Scan Measurement Data

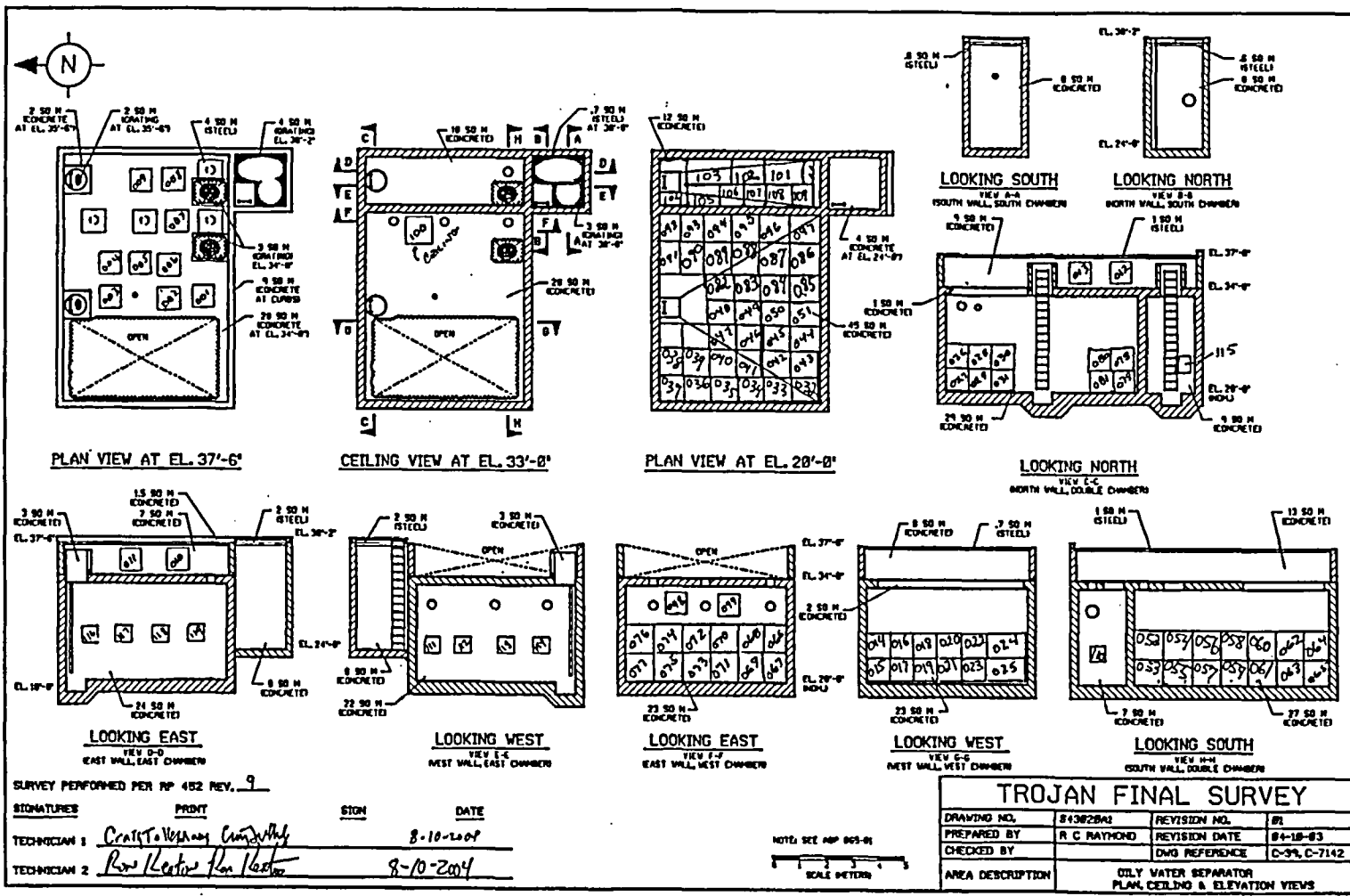
Location	Value	Location	Value
000052	2.610e+003	000099	2.393e+003
000053	2.514e+003	000100	2.356e+003
000054	2.497e+003	000101	2.585e+003
000055	2.632e+003	000102	2.366e+003
000056	2.492e+003	000103	2.571e+003
000057	2.563e+003	000104	2.649e+003
000058	2.377e+003	000105	2.505e+003
000059	2.991e+003	000106	2.417e+003
000060	2.667e+003	000107	2.261e+003
000061	2.962e+003	000108	2.161e+003
000062	2.521e+003	000109	2.439e+003
000063	2.498e+003	000110	2.312e+003
000064	2.598e+003	000111	2.412e+003
000065	2.805e+003	000112	2.244e+003
000066	2.610e+003	000113	2.356e+003
000067	2.648e+003	000114	2.293e+003
000068	2.687e+003	000115	2.494e+003
000069	2.571e+003	000116	2.267e+003
000070	2.539e+003	000117	2.440e+003
000071	2.277e+003	000118	2.238e+003
000072	2.693e+003	000119	2.469e+003
000073	2.806e+003		
000074	2.579e+003		
000075	2.770e+003		
000076	2.690e+003		
000077	2.555e+003		
000078	2.850e+003		
000079	2.526e+003		
000080	2.734e+003		
000081	2.776e+003		
000082	2.370e+003		
000083	2.462e+003		
000084	2.319e+003		
000085	2.257e+003		
000086	2.251e+003		
000087	2.444e+003		
000088	2.517e+003		
000089	2.563e+003		
000090	2.556e+003		
000091	2.625e+003		
000092	2.401e+003		
000093	2.691e+003		
000094	2.718e+003		
000095	2.760e+003		
000096	2.484e+003		
000097	2.345e+003		
000098	2.290e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S43020A
 Survey Unit Name: Oily Water Separator (Formerly Identified as P62065A)

Classification: Class 2
 Size (m²): 397

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S44045B
 Survey Unit Name: Gas Bottle Storage Building Exterior
 Walls and Roof

Classification: Class 3
 Size (m²): 474

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	10	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 8.319e+002
 Maximum Value : 1.801e+003
 Range : 9.691e+002
 Median : 1.084e+003
 Std. Deviation : 4.228e+002
 Mean : 1.289e+003
 95% UCL : 1.532e+003

Measurement Values

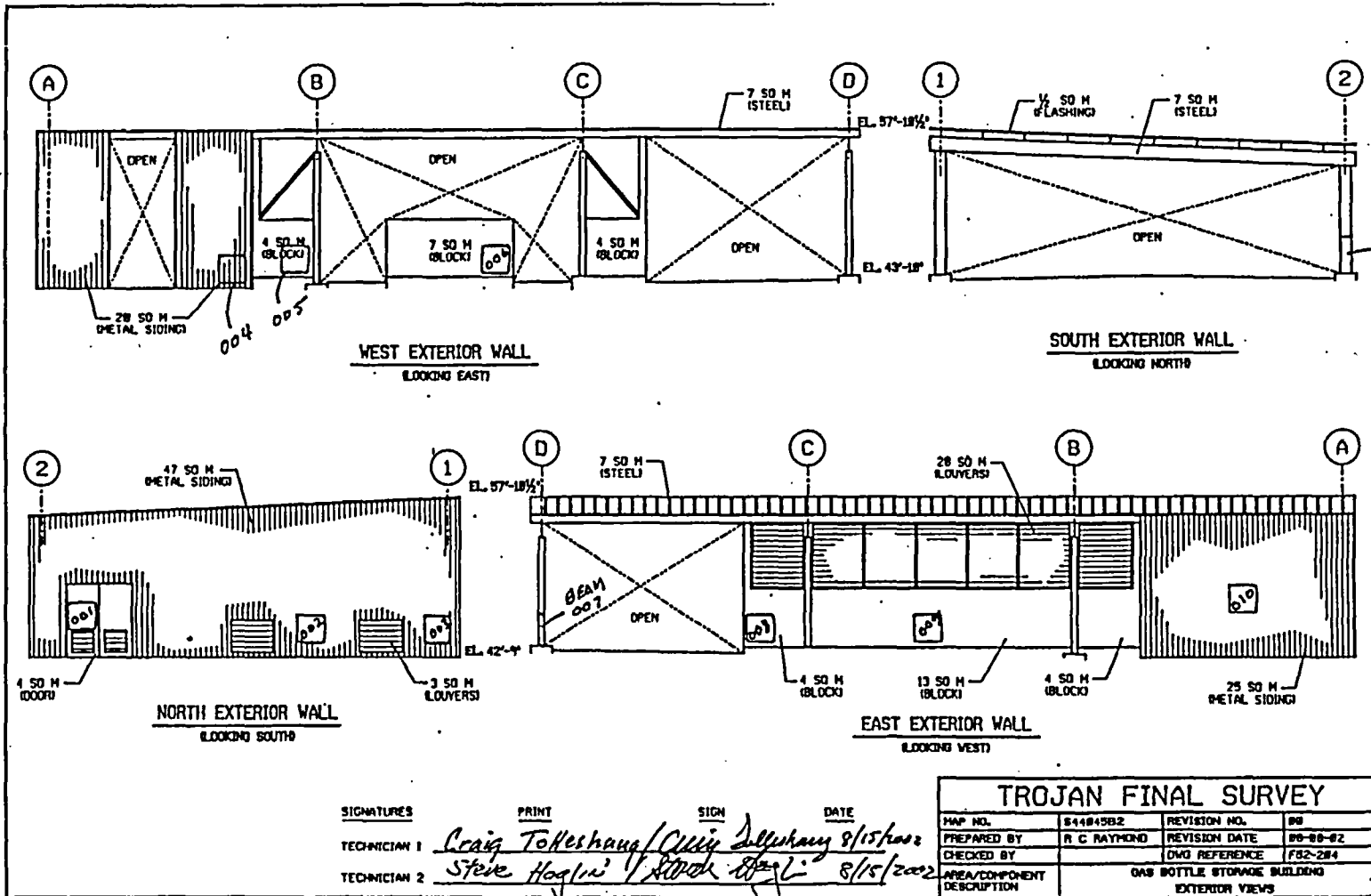
Location	Value	Location	Value
000001	1.021e+003		
000002	8.992e+002		
000003	8.319e+002		
000004	9.338e+002		
000005	1.687e+003		
000006	1.798e+003		
000007	1.147e+003		
000008	1.801e+003		
000009	1.794e+003		
000010	9.805e+002		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S44045B
 Survey Unit Name: Gas Bottle Storage Building Exterior Walls and Roof

Classification: Class 3
 Size (m²): 474

Scan Measurement Locations Map



SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	Craig Toleshaug / Craig Toleshaug		8/15/2002
TECHNICIAN 2	Steve Hagler / Steve Hagler		8/15/2002

TROJAN FINAL SURVEY			
MAP NO.	S44045B2	REVISION NO.	08
PREPARED BY	R C RAYMOND	REVISION DATE	08-08-02
CHECKED BY		DWG REFERENCE	F82-284
AREA/COMPONENT DESCRIPTION	GAS BOTTLE STORAGE BUILDING EXTERIOR VIEWS		

FILE NAME: LOCATION & VIEWING CONDITIONS SURVEY UNIT S44045B2A

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S45026A
 Survey Unit Name: Solids Settling Basin

Classification: Class 3
 Size (m²): 440

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	22	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 1.275e+003
 Maximum Value : 2.541e+003
 Range : 1.266e+003
 Median : 1.433e+003
 Std. Deviation : 2.768e+002
 Mean : 1.513e+003
 95% UCL : 1.614e+003

Measurement Values

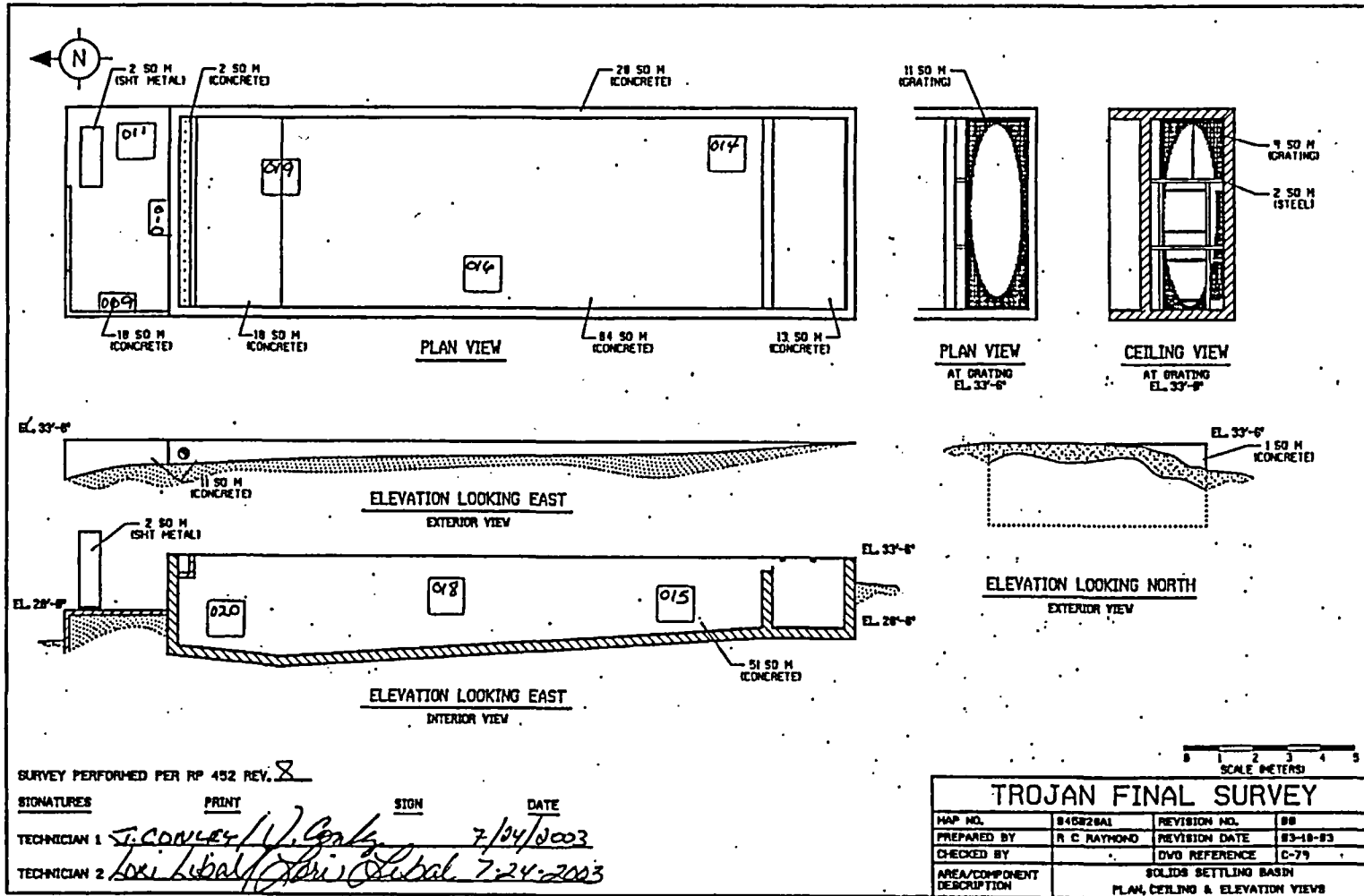
Location	Value	Location	Value
000001	1.361e+003	000018	2.541e+003
000002	1.275e+003	000019	1.797e+003
000003	1.453e+003	000020	1.477e+003
000004	1.358e+003	000021	1.557e+003
000005	1.375e+003	000022	1.422e+003
000006	1.292e+003		
000007	1.343e+003		
000008	1.353e+003		
000009	1.295e+003		
000010	1.421e+003		
000011	1.819e+003		
000012	1.494e+003		
000013	1.392e+003		
000014	1.504e+003		
000015	1.443e+003		
000016	1.755e+003		
000017	1.560e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S45026A
 Survey Unit Name: Solids Settling Basin

Classification: Class 3
 Size (m²): 440

Scan Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 8

SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	J. CONLEY	<i>J. Conley</i>	7/04/2003
TECHNICIAN 2	Dei Libal	<i>Dei Libal</i>	7-24-2003

TROJAN FINAL SURVEY			
HAP NO.	845026A	REVISION NO.	08
PREPARED BY	R C RAYMOND	REVISION DATE	03-18-03
CHECKED BY		DWG REFERENCE	C-79
AREA/COMPONENT DESCRIPTION	SOLIDS SETTLING BASIN		
	PLAN, CEILING & ELEVATION VIEWS		

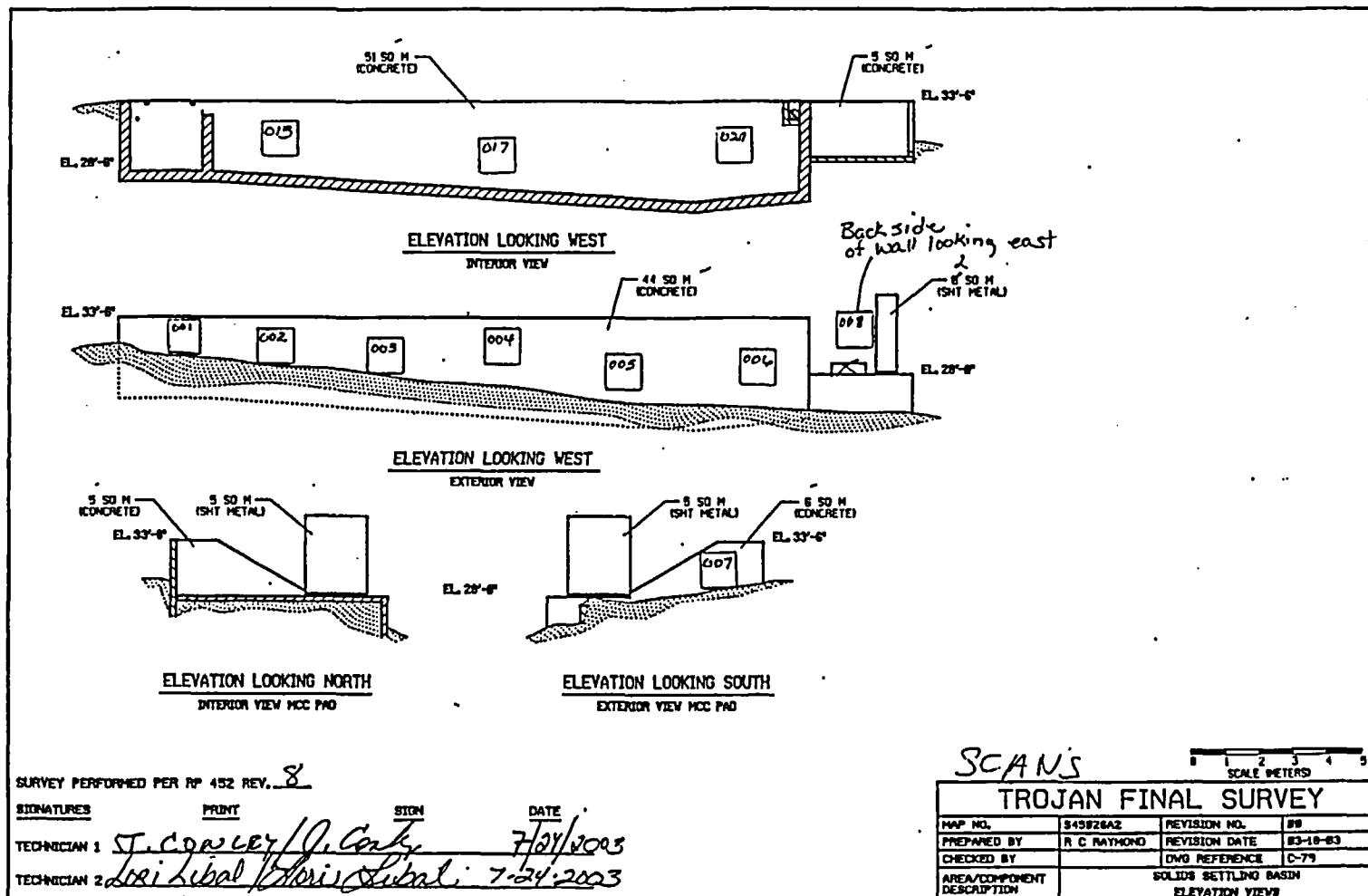
FILE LOCATION: \\P:\SURVEIL\COMPSURVEY\PH\45026A

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S45026A
 Survey Unit Name: Solids Settling Basin

Classification: Class 3
 Size (m²): 440

Scan Measurement Locations Map

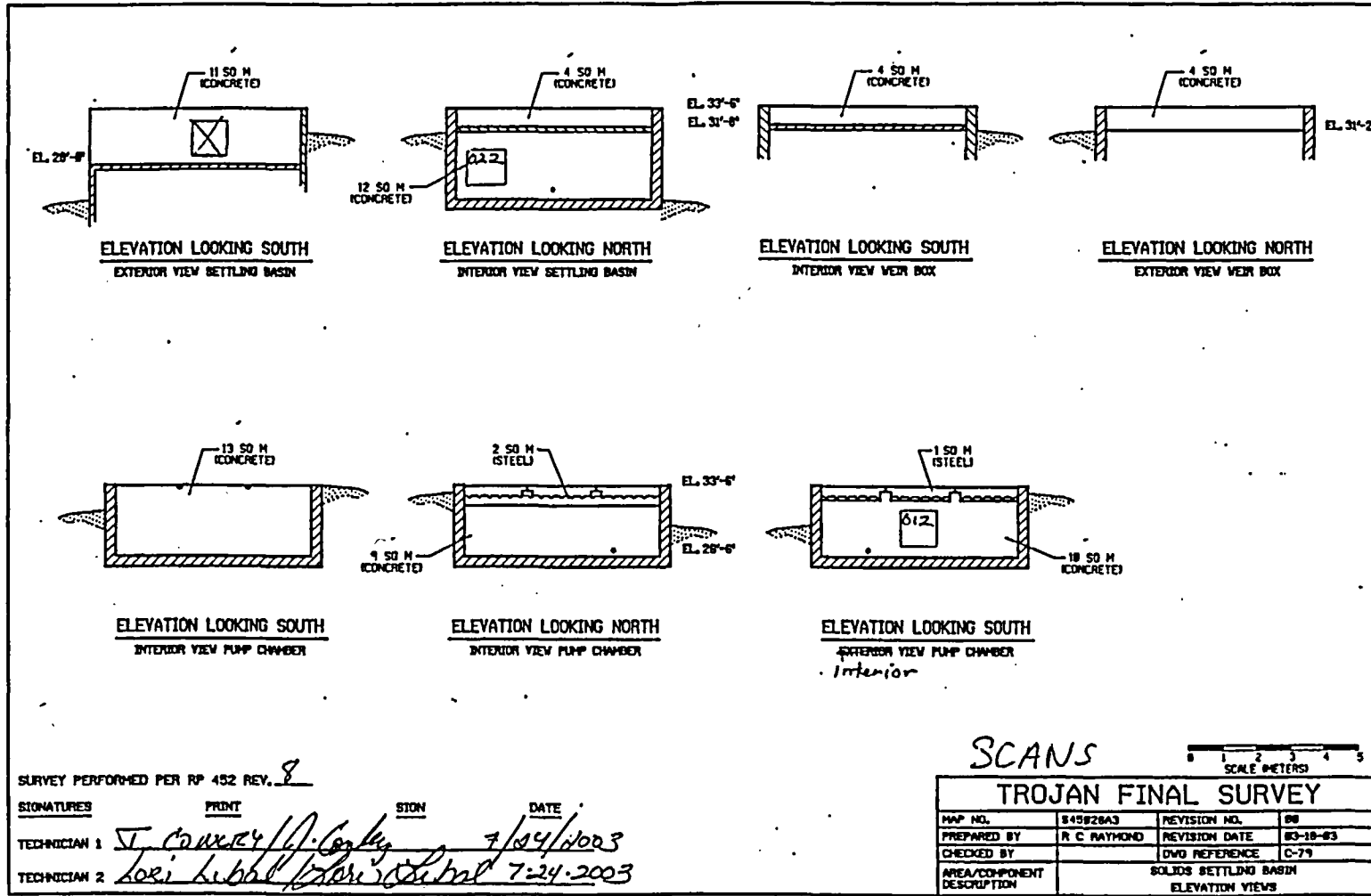


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S45026A
 Survey Unit Name: Solids Settling Basin

Classification: Class 3
 Size (m²): 440

Scan Measurement Locations Map



SUPPLEMENT TO APPENDIX C

SURVEY UNIT SUMMARY REPORTS – SUPPORT FACILITY INTERIORS

<u>Survey Unit ID Code</u>	<u>Page(s)</u>
S01025A	C-2 through C-4
S01025B.....	C-5 through C-7
S03045A	C-8 through C-12
S03045B.....	C-13 through C-16
S03045C.....	C-17 through C-20
S21023B.....	C-21 through C-27
S22045A	C-28 through C-31
S23032A	C-32 through C-41
S24038A	C-42 through C-51
S25045A	C-52 through C-58
S26045A	C-59 through C-65
S26045B.....	C-66 through C-69
S26073A	C-70 and C-71
S27045A	C-72 through C-77
S27045B.....	C-78 through C-80
S38045A	C-81 through C-85
S44045A	C-86 through C-89
S46025A	C-90 through C-92

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S01025A
 Survey Unit Name: Containment 25' Elevation -
 Tendon Gallery East Half

Classification: Class 2
 Size (m²): 807

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	97	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 1.116e+003
 Maximum Value : 1.699e+003
 Range : 5.830e+002
 Median : 1.358e+003
 Std. Deviation : 1.362e+002
 Mean : 1.367e+003
 95% UCL : 1.390e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	1.637e+003	000018	1.510e+003	000035	1.442e+003
000002	1.545e+003	000019	1.377e+003	000036	1.520e+003
000003	1.605e+003	000020	1.442e+003	000037	1.446e+003
000004	1.504e+003	000021	1.404e+003	000038	1.625e+003
000005	1.662e+003	000022	1.456e+003	000039	1.434e+003
000006	1.413e+003	000023	1.380e+003	000040	1.338e+003
000007	1.477e+003	000024	1.358e+003	000041	1.517e+003
000008	1.238e+003	000025	1.699e+003	000042	1.324e+003
000009	1.404e+003	000026	1.481e+003	000043	1.408e+003
000010	1.617e+003	000027	1.528e+003	000044	1.358e+003
000011	1.471e+003	000028	1.366e+003	000045	1.400e+003
000012	1.630e+003	000029	1.341e+003	000046	1.308e+003
000013	1.312e+003	000030	1.563e+003	000047	1.285e+003
000014	1.470e+003	000031	1.537e+003	000048	1.392e+003
000015	1.434e+003	000032	1.402e+003	000049	1.280e+003
000016	1.540e+003	000033	1.455e+003	000050	1.376e+003
000017	1.543e+003	000034	1.598e+003	000051	1.191e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S01025A
Survey Unit Name: Containment 25' Elevation –
Tendon Gallery East Half

Classification: Class 2
Size (m²): 807

Scan Measurement Data

<u>Location</u>	<u>Value</u>
000052	1.163e+003
000053	1.244e+003
000054	1.273e+003
000055	1.188e+003
000056	1.257e+003
000057	1.269e+003
000058	1.116e+003
000059	1.382e+003
000060	1.252e+003
000061	1.173e+003
000062	1.315e+003
000063	1.282e+003
000064	1.349e+003
000065	1.231e+003
000066	1.136e+003
000067	1.299e+003
000068	1.345e+003
000069	1.492e+003
000070	1.177e+003
000071	1.125e+003
000072	1.219e+003
000073	1.171e+003
000074	1.354e+003
000075	1.281e+003
000076	1.327e+003
000077	1.185e+003
000078	1.183e+003
000079	1.171e+003
000080	1.250e+003
000081	1.177e+003
000082	1.249e+003
000083	1.361e+003
000084	1.341e+003
000085	1.180e+003
000086	1.242e+003
000087	1.278e+003
000088	1.340e+003
000089	1.234e+003
000090	1.415e+003
000091	1.393e+003
000092	1.317e+003
000093	1.416e+003
000094	1.308e+003
000095	1.391e+003
000096	1.323e+003
000097	1.337e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S01025A

Survey Unit Name: Containment 25' Elevation - Tendon Gallery East Half

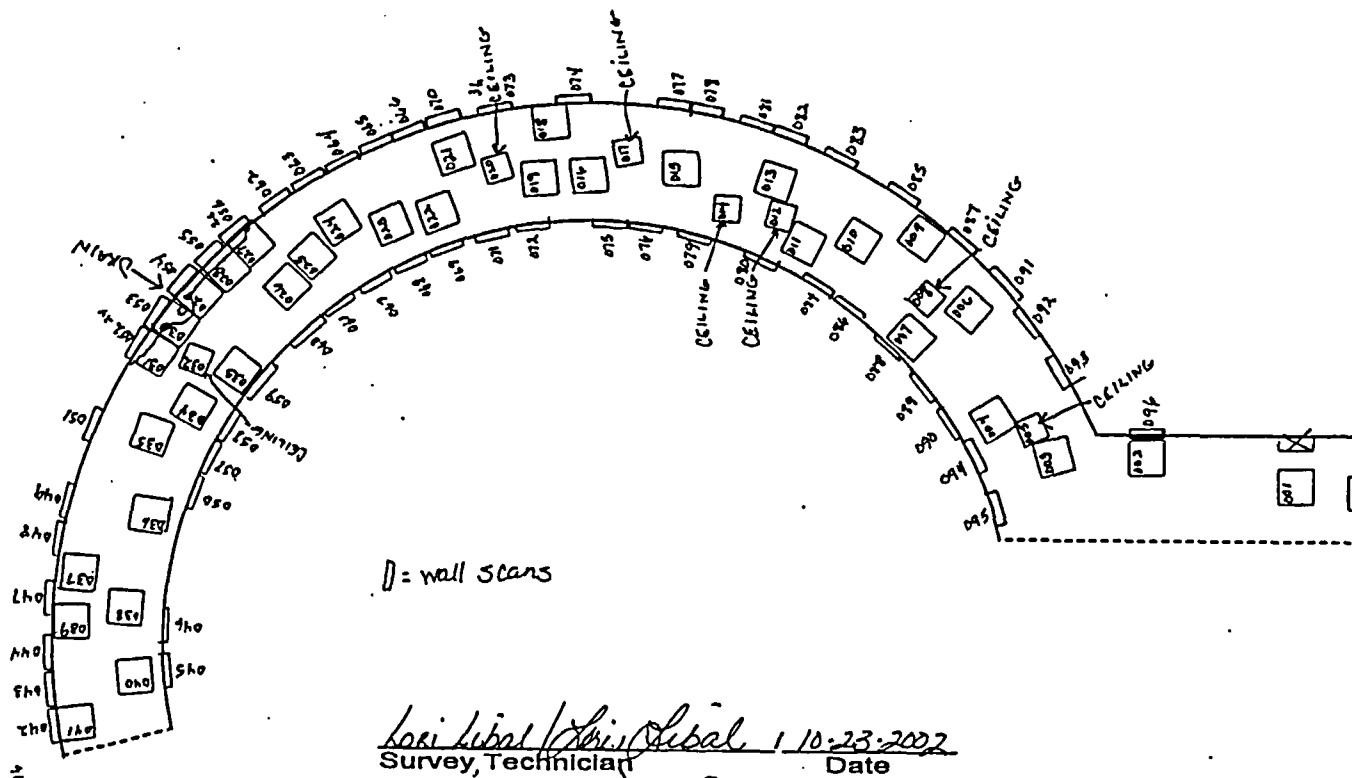
Classification: Class 2

Size (m²): 807

Scan Measurement Locations Map



FINAL SURVEY UNIT
S01025A
SCAN LOCATIONS



D = wall scans

Lori Lubal / *Lori Lubal* 10-23-2002
Survey Technician Date

Ron Keaton / *Ron Keaton* 10-23-2002
Survey Technician Date

025A.scr.cad

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S01025B
 Survey Unit Name: Containment 25' Elevation - Tendon
 Gallery West Half

Classification: Class 2
 Size (m²): 807

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	97	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 9.845e+002
 Maximum Value : 1.444e+003
 Range : 4.595e+002
 Median : 1.216e+003
 Std. Deviation : 8.531e+001
 Mean : 1.219e+003
 95% UCL : 1.233e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	1.199e+003	000018	1.248e+003	000035	1.109e+003
000002	1.216e+003	000019	1.216e+003	000036	1.142e+003
000003	1.382e+003	000020	1.156e+003	000037	1.127e+003
000004	1.270e+003	000021	1.261e+003	000038	1.181e+003
000005	1.177e+003	000022	1.257e+003	000039	1.218e+003
000006	1.330e+003	000023	1.310e+003	000040	1.063e+003
000007	1.208e+003	000024	1.229e+003	000041	1.140e+003
000008	1.366e+003	000025	1.214e+003	000042	1.015e+003
000009	1.369e+003	000026	1.282e+003	000043	1.152e+003
000010	1.111e+003	000027	1.152e+003	000044	1.092e+003
000011	1.321e+003	000028	9.853e+002	000045	1.111e+003
000012	1.296e+003	000029	1.293e+003	000046	1.172e+003
000013	1.236e+003	000030	1.186e+003	000047	1.276e+003
000014	1.186e+003	000031	1.277e+003	000048	1.192e+003
000015	1.208e+003	000032	1.170e+003	000049	1.208e+003
000016	1.191e+003	000033	9.845e+002	000050	1.235e+003
000017	1.122e+003	000034	1.084e+003	000051	1.226e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S01025B
Survey Unit Name: Containment 25' Elevation - Tendon
Gallery West Half

Classification: Class 2
Size (m²): 807

Scan Measurement Data

<u>Location</u>	<u>Value</u>
000052	1.177e+003
000053	1.237e+003
000054	1.325e+003
000055	1.304e+003
000056	1.130e+003
000057	1.235e+003
000058	1.185e+003
000059	1.299e+003
000060	1.324e+003
000061	1.097e+003
000062	1.204e+003
000063	1.323e+003
000064	1.124e+003
000065	1.170e+003
000066	1.417e+003
000067	1.187e+003
000068	1.201e+003
000069	1.278e+003
000070	1.199e+003
000071	1.170e+003
000072	1.227e+003
000073	1.151e+003
000074	1.245e+003
000075	1.192e+003
000076	1.150e+003
000077	1.282e+003
000078	1.234e+003
000079	1.305e+003
000080	1.286e+003
000081	1.285e+003
000082	1.261e+003
000083	1.208e+003
000084	1.249e+003
000085	1.256e+003
000086	1.126e+003
000087	1.196e+003
000088	1.217e+003
000089	1.248e+003
000090	1.444e+003
000091	1.229e+003
000092	1.240e+003
000093	1.357e+003
000094	1.285e+003
000095	1.332e+003
000096	1.269e+003
000097	1.204e+003

FINAL SURVEY RESULTS SUMMARY

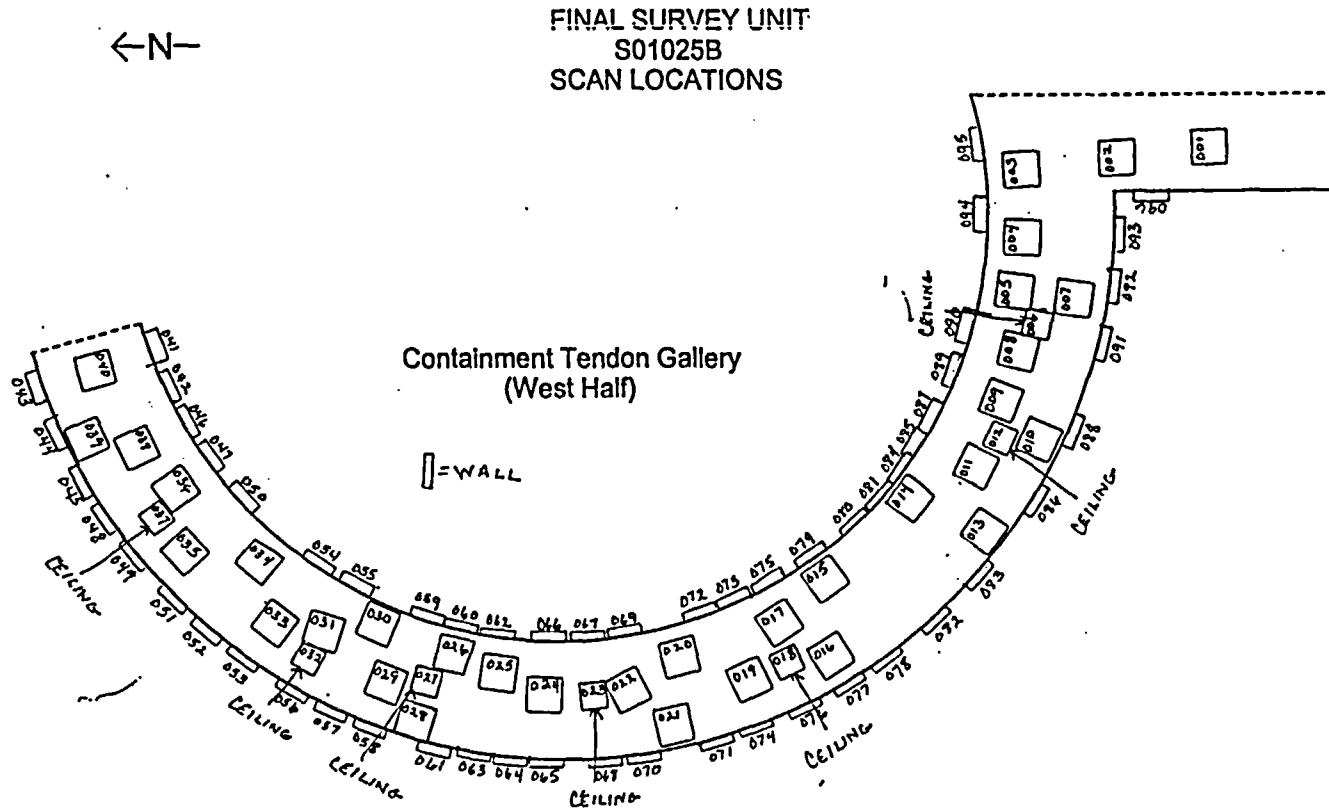
Survey Unit ID Code: S01025B

Survey Unit Name: Containment 25' Elevation – Tendon Gallery West Half

Classification: Class 2

Size (m²): 807

Scan Measurement Locations Map



Lois Libal / Lois Libal / 10-29-2002
Survey Technician / Date

Ron Keates / Ron Keates / 10-29-2002
Survey Technician / Date

025Bscn.cad

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S03045A
 Survey Unit Name: Maintenance Building Tool Room and
 Carpenter Shop

Classification: Class 2
 Size (m²): 984

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	108	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 7.413e+002
 Maximum Value : 1.816e+003
 Range : 1.075e+003
 Median : 1.366e+003
 Std. Deviation : 2.773e+002
 Mean : 1.286e+003
 95% UCL : 1.330e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	1.518e+003	000018	1.611e+003	000035	1.468e+003
000002	1.725e+003	000019	1.353e+003	000036	1.472e+003
000003	1.816e+003	000020	1.482e+003	000037	1.440e+003
000004	1.412e+003	000021	1.407e+003	000038	1.432e+003
000005	1.378e+003	000022	1.532e+003	000039	1.602e+003
000006	1.422e+003	000023	1.474e+003	000040	1.416e+003
000007	1.489e+003	000024	1.484e+003	000041	1.319e+003
000008	1.585e+003	000025	1.383e+003	000042	1.516e+003
000009	1.344e+003	000026	1.454e+003	000043	1.604e+003
000010	1.525e+003	000027	1.506e+003	000044	1.571e+003
000011	1.385e+003	000028	1.440e+003	000045	1.475e+003
000012	1.630e+003	000029	1.571e+003	000046	1.396e+003
000013	1.437e+003	000030	1.588e+003	000047	1.400e+003
000014	1.551e+003	000031	1.767e+003	000048	1.553e+003
000015	1.468e+003	000032	1.473e+003	000049	1.001e+003
000016	1.560e+003	000033	1.430e+003	000050	1.097e+003
000017	1.523e+003	000034	1.425e+003	000051	1.766e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S03045A
Survey Unit Name: Maintenance Building Tool Room and
Carpenter Shop

Classification: Class 2
Size (m²): 984

Scan Measurement Data

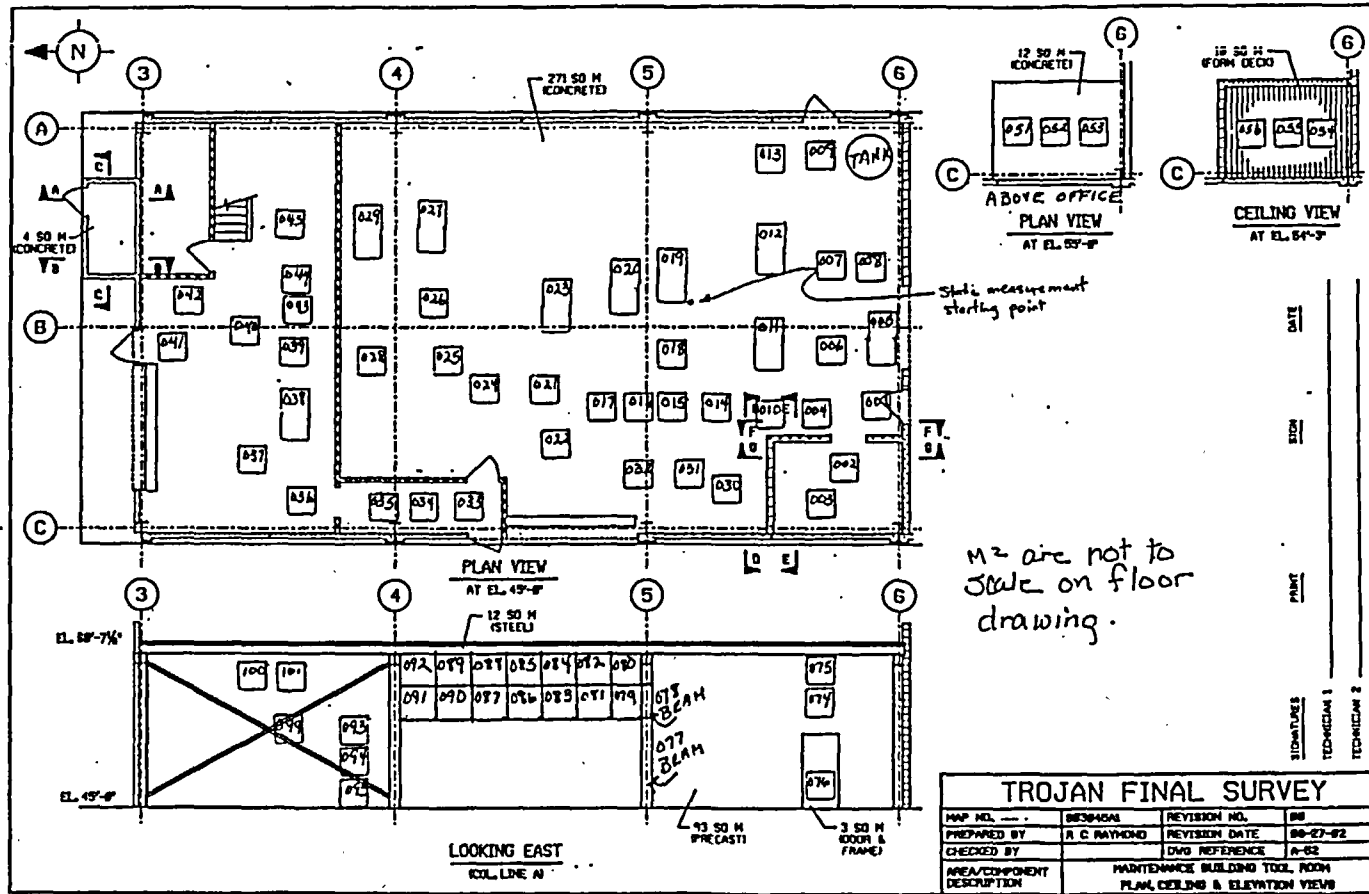
Location	Value	Location	Value
000052	1.678e+003	000099	1.234e+003
000053	1.637e+003	000100	1.238e+003
000054	1.161e+003	000101	1.166e+003
000055	1.170e+003	000102	8.595e+002
000056	1.167e+003	000103	8.375e+002
000057	9.905e+002	000104	9.291e+002
000058	7.926e+002	000105	8.613e+002
000059	8.320e+002	000106	8.943e+002
000060	8.329e+002	000107	8.283e+002
000061	1.512e+003	000108	9.869e+002
000062	1.627e+003		
000063	1.595e+003		
000064	1.527e+003		
000065	1.548e+003		
000066	1.507e+003		
000067	1.313e+003		
000068	8.742e+002		
000069	7.413e+002		
000070	7.587e+002		
000071	8.778e+002		
000072	8.311e+002		
000073	7.917e+002		
000074	1.074e+003		
000075	1.159e+003		
000076	9.988e+002		
000077	8.009e+002		
000078	8.513e+002		
000079	1.243e+003		
000080	1.068e+003		
000081	1.130e+003		
000082	1.103e+003		
000083	1.084e+003		
000084	1.108e+003		
000085	1.120e+003		
000086	1.352e+003		
000087	1.254e+003		
000088	1.244e+003		
000089	1.134e+003		
000090	1.193e+003		
000091	1.133e+003		
000092	1.105e+003		
000093	1.062e+003		
000094	1.180e+003		
000095	1.187e+003		
000096	1.173e+003		
000097	9.575e+002		
000098	8.824e+002		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S03045A
 Survey Unit Name: Maintenance Building Tool Room and Carpenter Shop

Classification: Class 2
 Size (m²): 984

Scan Measurement Locations Map



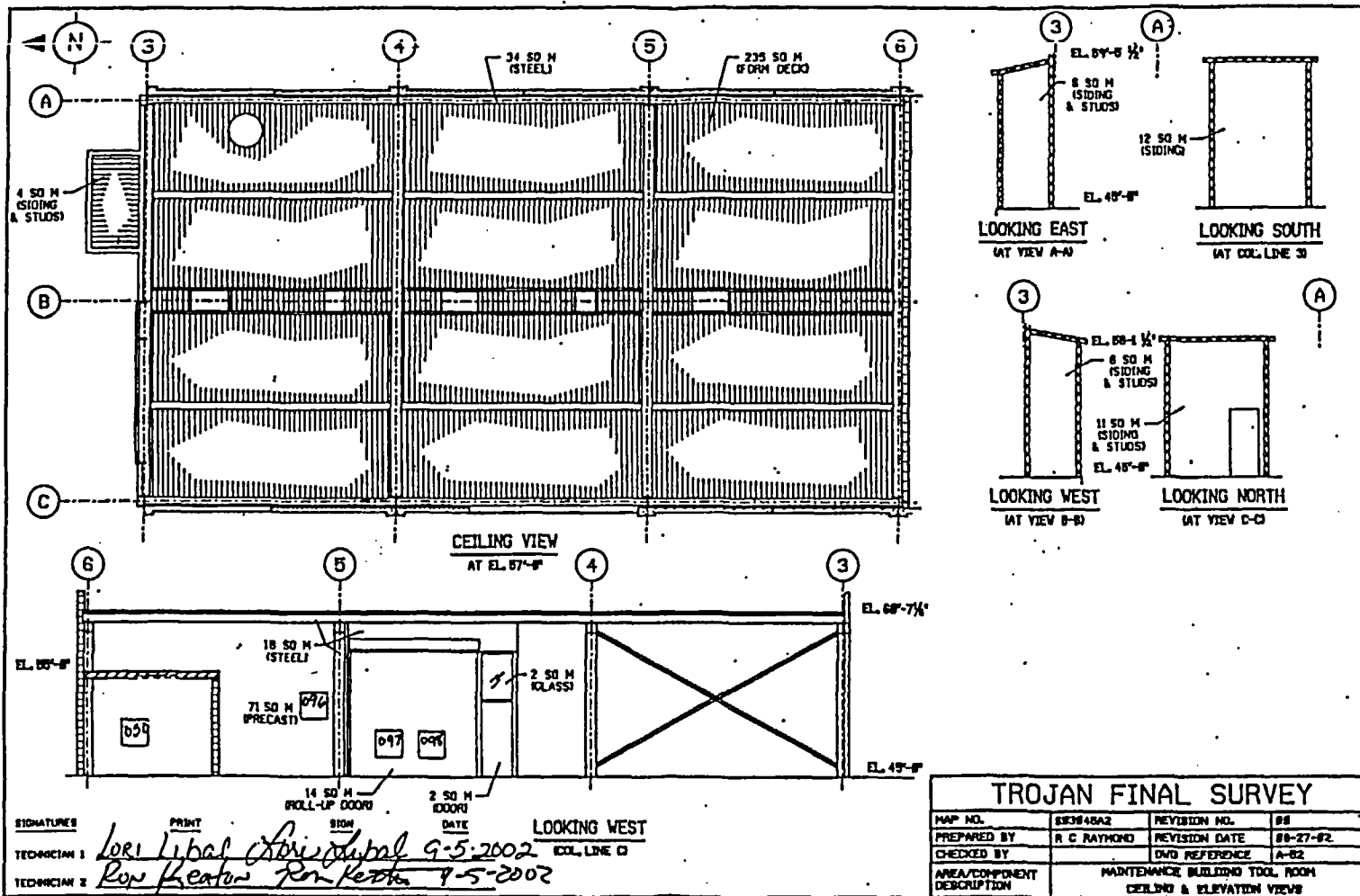
Lori Libal / Lori Libal 9-5-2002
 Ron Keaton / Ron Keaton 9-5-2002

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S03045A
 Survey Unit Name: Maintenance Building Tool Room and Carpenter Shop

Classification: Class 2
 Size (m²): 984

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

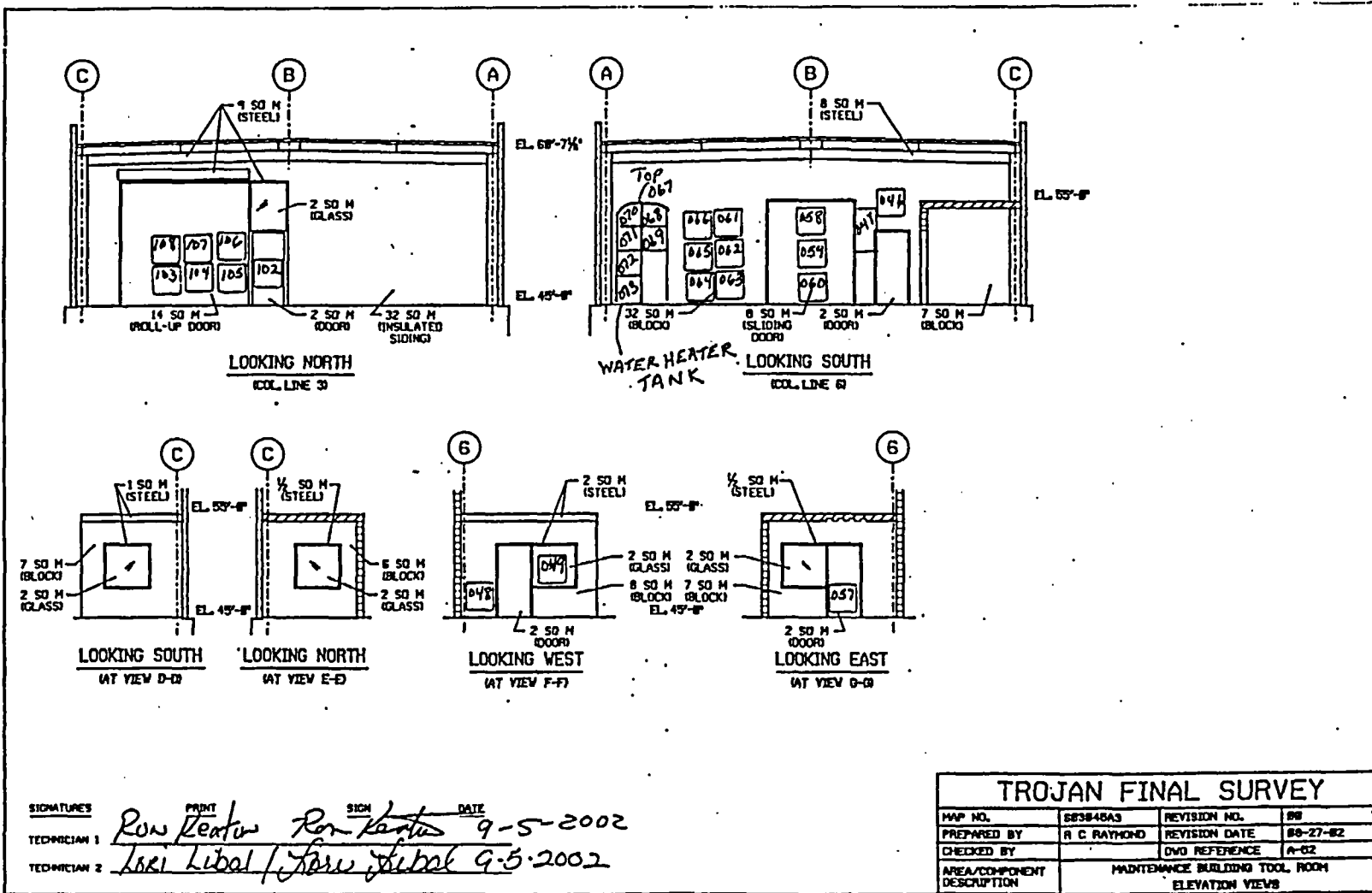
Survey Unit ID Code: S03045A

Survey Unit Name: Maintenance Building Tool Room and Carpenter Shop

Classification: Class 2

Size (m²): 984

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S03045B
 Survey Unit Name: Maintenance Building Machine Shop

Classification: Class 3
 Size (m²): 1,538

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	46	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 7.596e+002
 Maximum Value : 1.627e+003
 Range : 8.674e+002
 Median : 1.330e+003
 Std. Deviation : 2.502e+002
 Mean : 1.245e+003
 95% UCL : 1.307e+003

Measurement Values

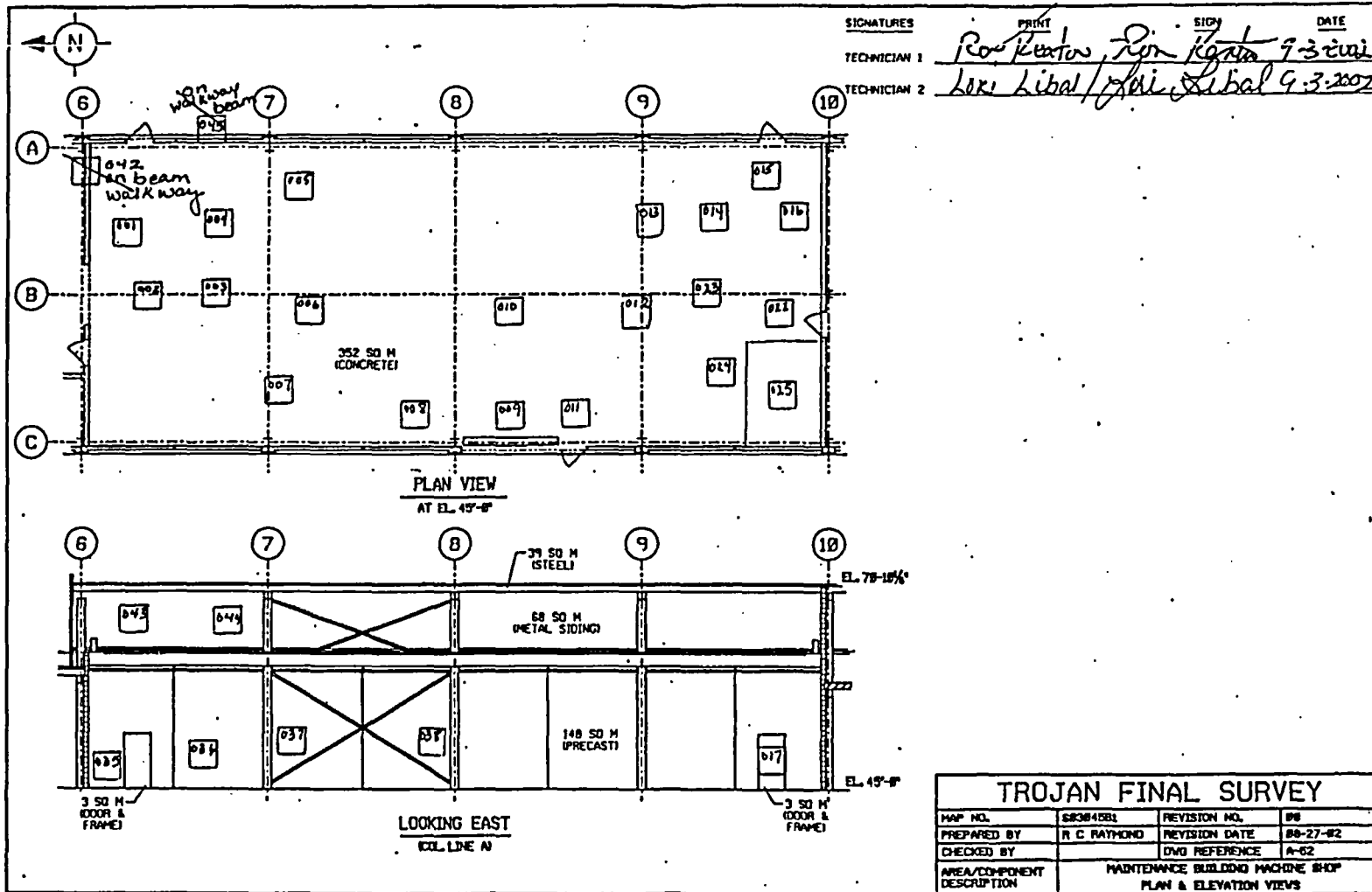
Location	Value	Location	Value	Location	Value
000001	1.437e+003	000018	1.345e+003	000035	1.340e+003
000002	1.565e+003	000019	1.128e+003	000036	1.243e+003
000003	1.474e+003	000020	1.381e+003	000037	1.060e+003
000004	1.359e+003	000021	8.577e+002	000038	1.139e+003
000005	1.531e+003	000022	1.452e+003	000039	8.604e+002
000006	1.397e+003	000023	1.386e+003	000040	7.908e+002
000007	1.506e+003	000024	1.571e+003	000041	7.605e+002
000008	1.440e+003	000025	1.627e+003	000042	1.017e+003
000009	1.377e+003	000026	9.126e+002	000043	7.596e+002
000010	1.517e+003	000027	1.028e+003	000044	8.870e+002
000011	1.455e+003	000028	1.146e+003	000045	1.046e+003
000012	1.485e+003	000029	1.194e+003	000046	1.006e+003
000013	1.295e+003	000030	1.145e+003		
000014	1.475e+003	000031	1.210e+003		
000015	1.422e+003	000032	1.024e+003		
000016	1.529e+003	000033	1.443e+003		
000017	9.236e+002	000034	1.319e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S03045B
 Survey Unit Name: Maintenance Building Machine Shop

Classification: Class 3
 Size (m²): 1,538

Scan Measurement Locations Map

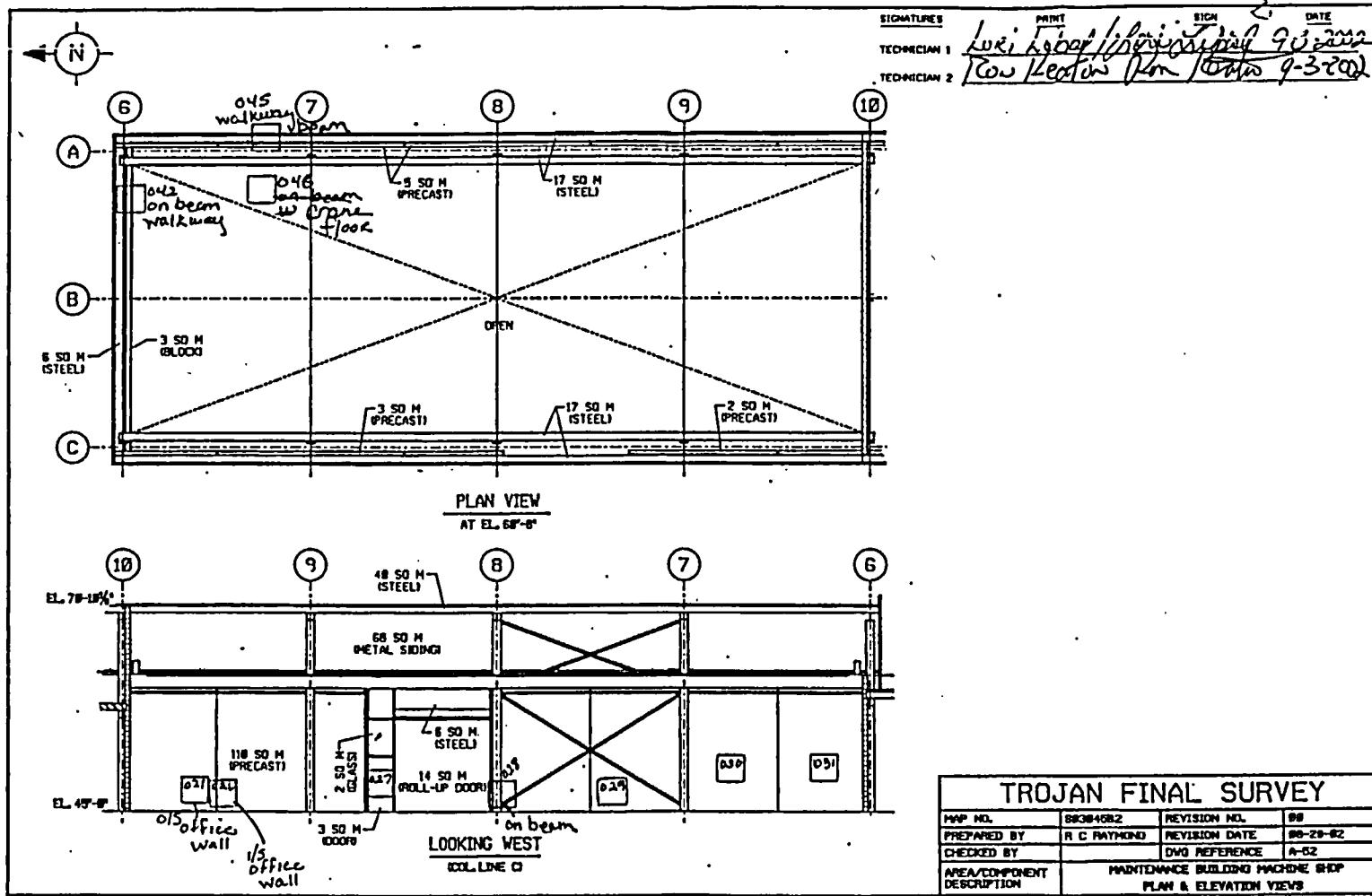


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S03045B
 Survey Unit Name: Maintenance Building Machine Shop

Classification: Class 3
 Size (m²): 1,538

Scan Measurement Locations Map

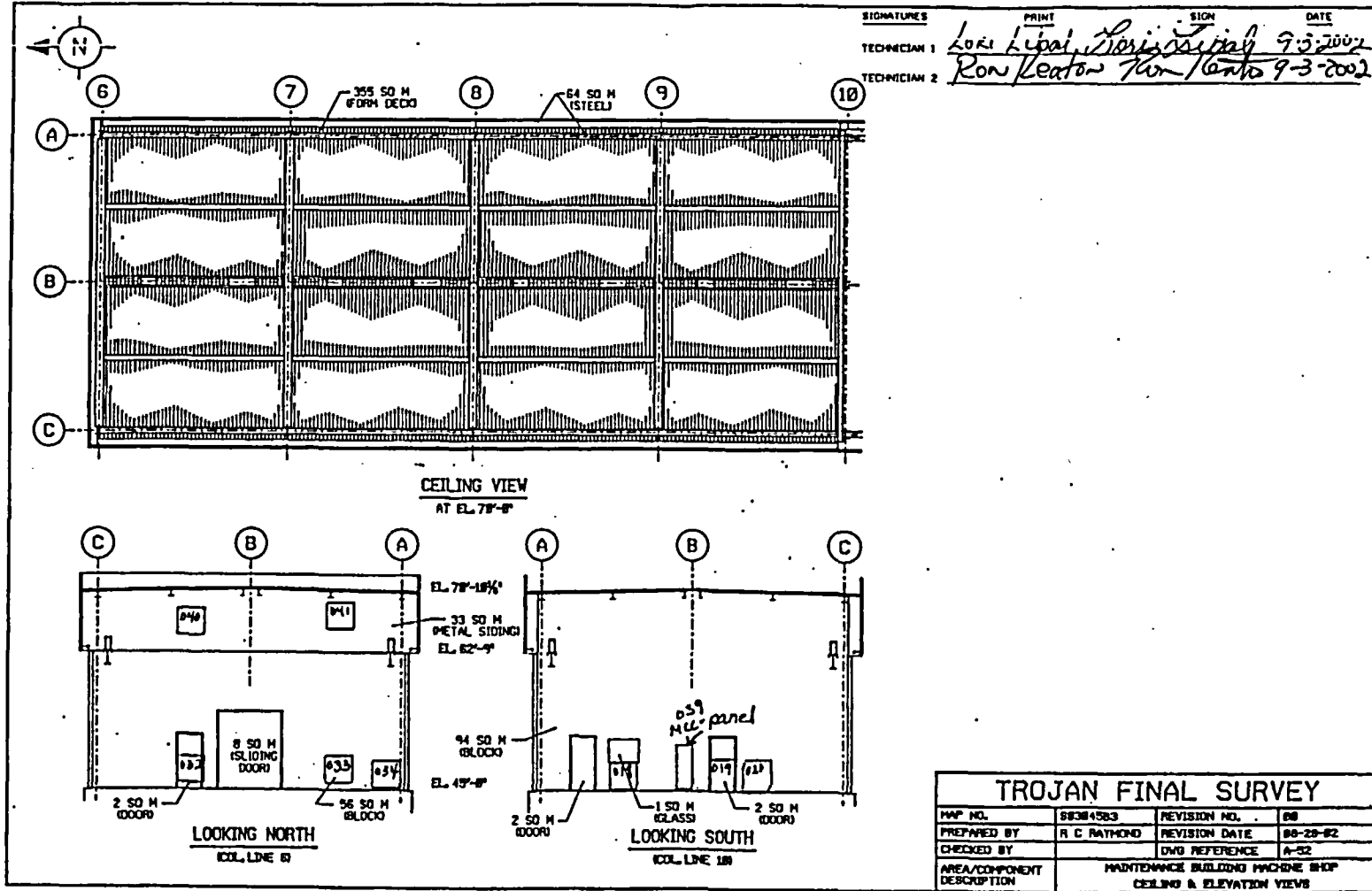


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S03045B
 Survey Unit Name: Maintenance Building Machine Shop

Classification: Class 3
 Size (m²): 1,538

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S03045C
 Survey Unit Name: Maintenance Building Interior

Classification: Class 3
 Size (m²): 1,519

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	152	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 1.102e+003
 Maximum Value : 2.008e+003
 Range : 9.060e+002
 Median : 1.559e+003
 Std. Deviation : 2.028e+002
 Mean : 1.521e+003
 95% UCL : 1.548e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	1.733e+003	000018	1.448e+003	000035	1.388e+003
000002	1.582e+003	000019	1.147e+003	000036	1.453e+003
000003	1.624e+003	000020	1.677e+003	000037	1.374e+003
000004	1.678e+003	000021	1.821e+003	000038	1.337e+003
000005	1.814e+003	000022	1.621e+003	000039	1.393e+003
000006	1.700e+003	000023	1.669e+003	000040	1.512e+003
000007	1.628e+003	000024	1.689e+003	000041	1.427e+003
000008	1.860e+003	000025	1.870e+003	000042	1.179e+003
000009	1.462e+003	000026	1.727e+003	000043	1.212e+003
000010	1.115e+003	000027	1.703e+003	000044	1.169e+003
000011	1.557e+003	000028	1.735e+003	000045	1.225e+003
000012	1.451e+003	000029	1.678e+003	000046	1.196e+003
000013	1.413e+003	000030	1.768e+003	000047	1.278e+003
000014	1.496e+003	000031	1.349e+003	000048	1.377e+003
000015	1.670e+003	000032	1.428e+003	000049	1.457e+003
000016	1.475e+003	000033	1.462e+003	000050	1.586e+003
000017	1.458e+003	000034	1.424e+003	000051	1.340e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S03045C
 Survey Unit Name: Maintenance Building Interior

Classification: Class 3
 Size (m²): 1,519

Scan Measurement Data

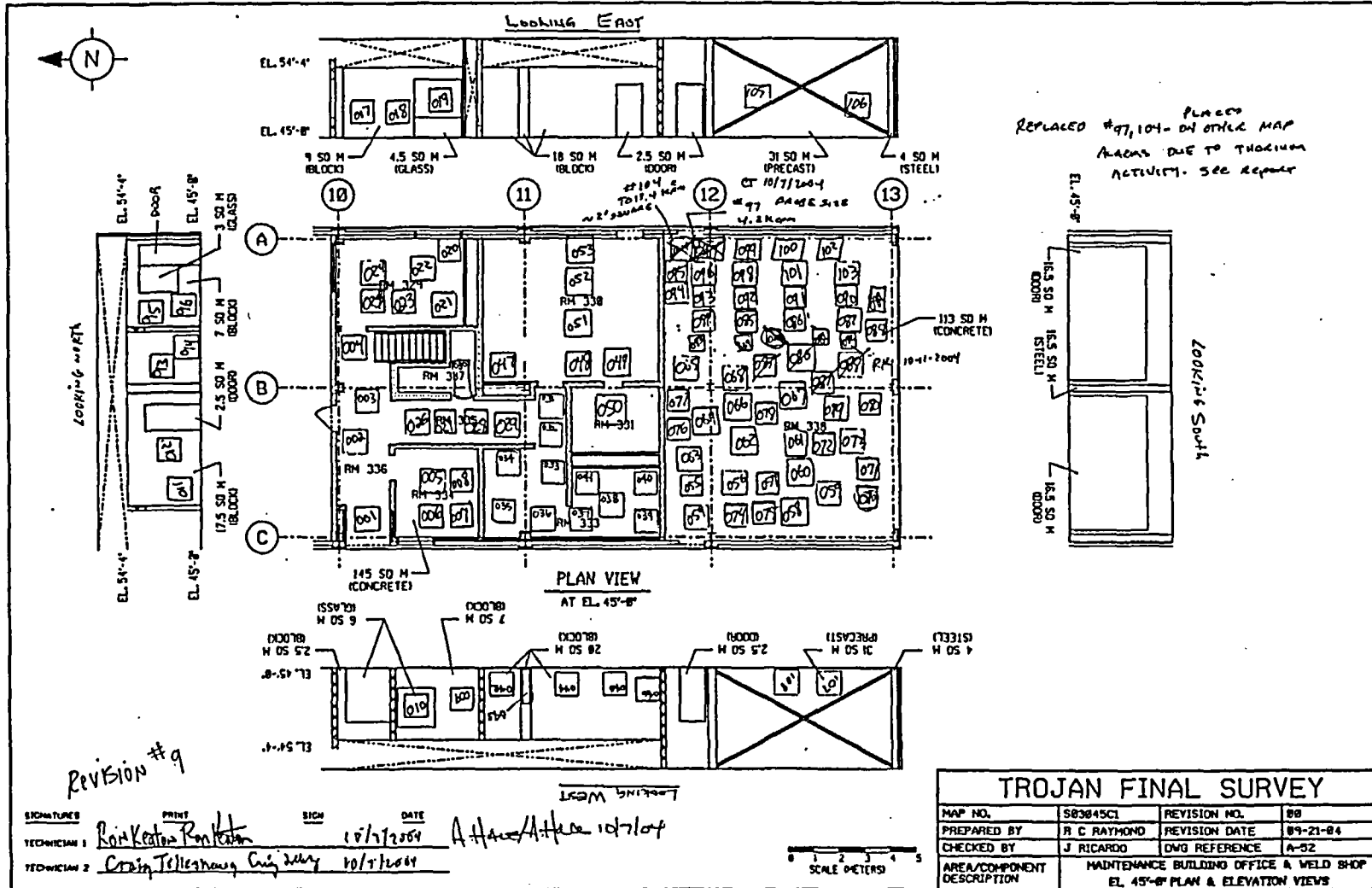
Location	Value	Location	Value	Location	Value
000052	1.307e+003	000099	1.662e+003	000146	1.740e+003
000053	1.278e+003	000100	1.350e+003	000147	1.826e+003
000054	1.412e+003	000101	1.333e+003	000148	1.692e+003
000055	1.539e+003	000102	1.396e+003	000149	1.837e+003
000056	1.519e+003	000103	1.553e+003	000150	1.277e+003
000057	1.649e+003	000104	1.561e+003	000151	1.194e+003
000058	1.576e+003	000105	1.198e+003	000152	1.159e+003
000059	1.456e+003	000106	1.150e+003		
000060	1.569e+003	000107	1.186e+003		
000061	1.481e+003	000108	1.142e+003		
000062	1.803e+003	000109	1.397e+003		
000063	1.741e+003	000110	1.219e+003		
000064	1.480e+003	000111	1.208e+003		
000065	1.624e+003	000112	1.137e+003		
000066	1.801e+003	000113	1.708e+003		
000067	1.592e+003	000114	1.528e+003		
000068	1.637e+003	000115	1.689e+003		
000069	2.008e+003	000116	1.729e+003		
000070	1.882e+003	000117	1.668e+003		
000071	1.570e+003	000118	1.623e+003		
000072	1.579e+003	000119	1.526e+003		
000073	1.638e+003	000120	1.660e+003		
000074	1.655e+003	000121	1.492e+003		
000075	1.717e+003	000122	1.600e+003		
000076	1.662e+003	000123	1.239e+003		
000077	1.297e+003	000124	1.249e+003		
000078	1.653e+003	000125	1.698e+003		
000079	1.567e+003	000126	1.711e+003		
000080	1.742e+003	000127	1.627e+003		
000081	1.520e+003	000128	1.604e+003		
000082	1.767e+003	000129	1.709e+003		
000083	1.630e+003	000130	1.425e+003		
000084	1.215e+003	000131	1.635e+003		
000085	1.166e+003	000132	1.731e+003		
000086	1.132e+003	000133	1.570e+003		
000087	1.383e+003	000134	1.790e+003		
000088	1.437e+003	000135	1.595e+003		
000089	1.471e+003	000136	1.711e+003		
000090	1.570e+003	000137	1.645e+003		
000091	1.553e+003	000138	1.668e+003		
000092	1.668e+003	000139	1.406e+003		
000093	1.701e+003	000140	1.102e+003		
000094	1.657e+003	000141	1.359e+003		
000095	1.505e+003	000142	1.251e+003		
000096	1.726e+003	000143	1.247e+003		
000097	1.498e+003	000144	1.386e+003		
000098	1.650e+003	000145	1.805e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S03045C
 Survey Unit Name: Maintenance Building Interior

Classification: Class 3
 Size (m²): 1,519

Scan Measurement Locations Map



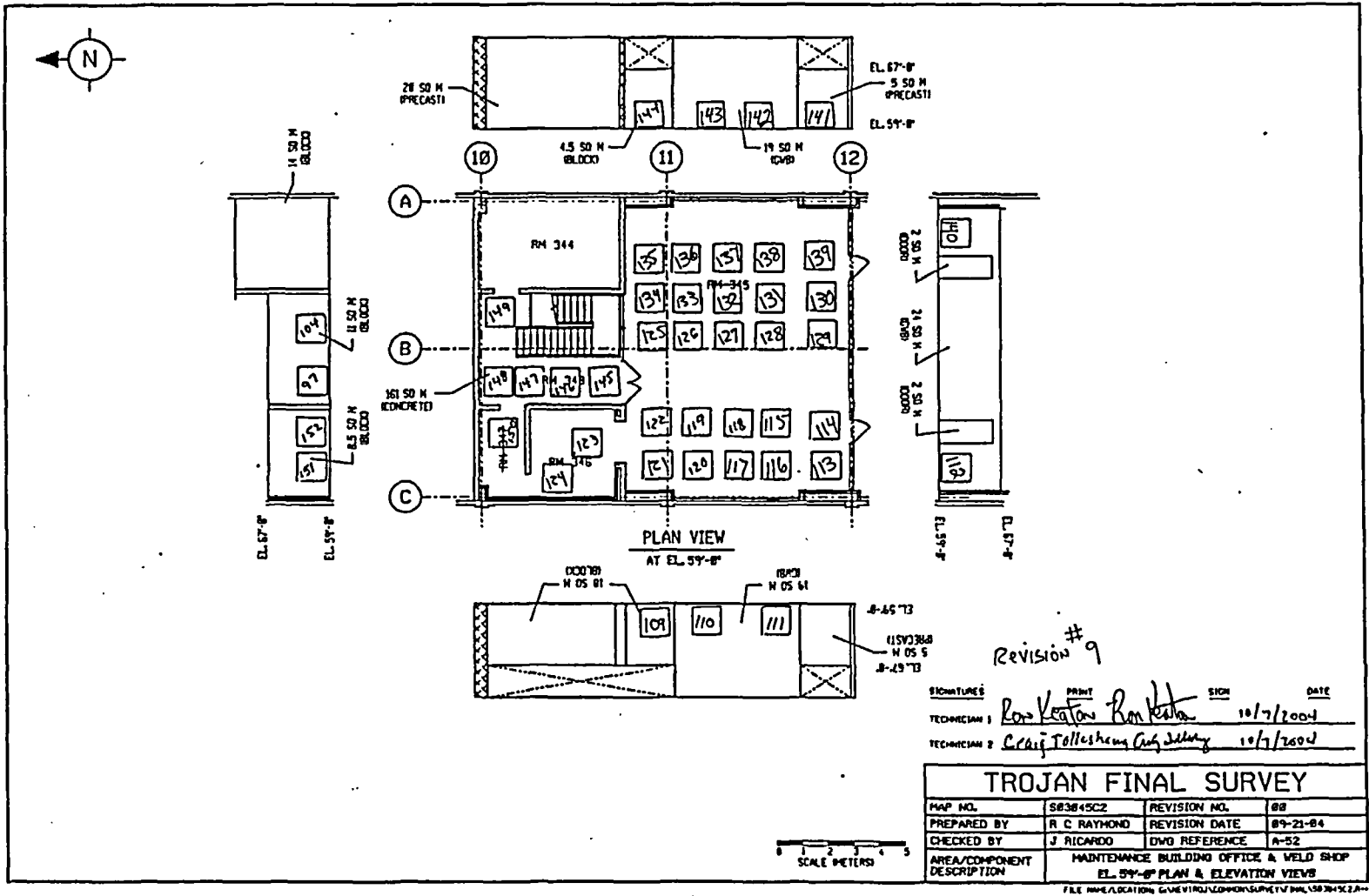
TROJAN FINAL SURVEY			
MAP NO.	S03045C1	REVISION NO.	08
PREPARED BY	R C RAYMOND	REVISION DATE	09-21-04
CHECKED BY	J RICARDO	DWG REFERENCE	A-02
AREA/COMPONENT DESCRIPTION	MAINTENANCE BUILDING OFFICE & WELD SHOP EL 45'-0" PLAN & ELEVATION VIEWS		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S03045C
 Survey Unit Name: Maintenance Building Interior

Classification: Class 3
 Size (m²): 1,519

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S21023B
 Survey Unit Name: Intake Structure Interior

Classification: Class 3
 Size (m²): 2,280

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	42	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 7.194e+002
 Maximum Value : 1.667e+003
 Range : 9.476e+002
 Median : 1.299e+003
 Std. Deviation : 2.325e+002
 Mean : 1.232e+003
 95% UCL : 1.292e+003

Measurement Values

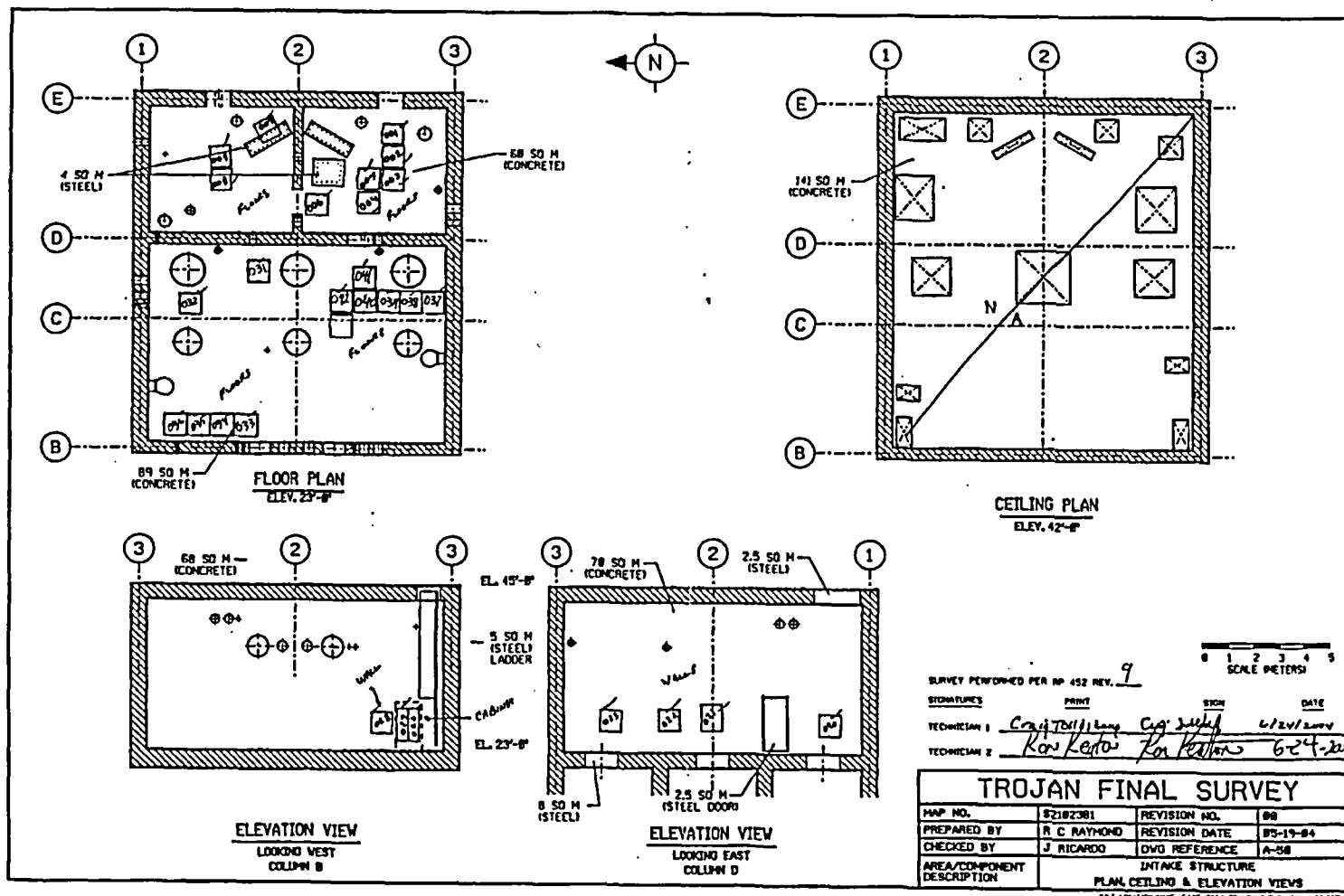
Location	Value	Location	Value	Location	Value
000001	1.375e+003	000018	1.393e+003	000035	1.309e+003
000002	1.667e+003	000019	1.443e+003	000036	1.349e+003
000003	1.404e+003	000020	8.930e+002	000037	1.298e+003
000004	1.369e+003	000021	1.172e+003	000038	1.300e+003
000005	1.305e+003	000022	1.248e+003	000039	1.317e+003
000006	1.227e+003	000023	1.151e+003	000040	1.176e+003
000007	1.224e+003	000024	1.401e+003	000041	1.468e+003
000008	1.336e+003	000025	1.288e+003	000042	1.180e+003
000009	1.359e+003	000026	8.304e+002		
000010	1.289e+003	000027	9.309e+002		
000011	1.209e+003	000028	1.277e+003		
000012	8.974e+002	000029	7.194e+002		
000013	8.419e+002	000030	7.820e+002		
000014	7.899e+002	000031	1.600e+003		
000015	1.477e+003	000032	1.435e+003		
000016	1.341e+003	000033	1.361e+003		
000017	8.886e+002	000034	1.421e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S21023B
 Survey Unit Name: Intake Structure Interior

Classification: Class 3
 Size (m²): 2,280

Scan Measurement Locations Map

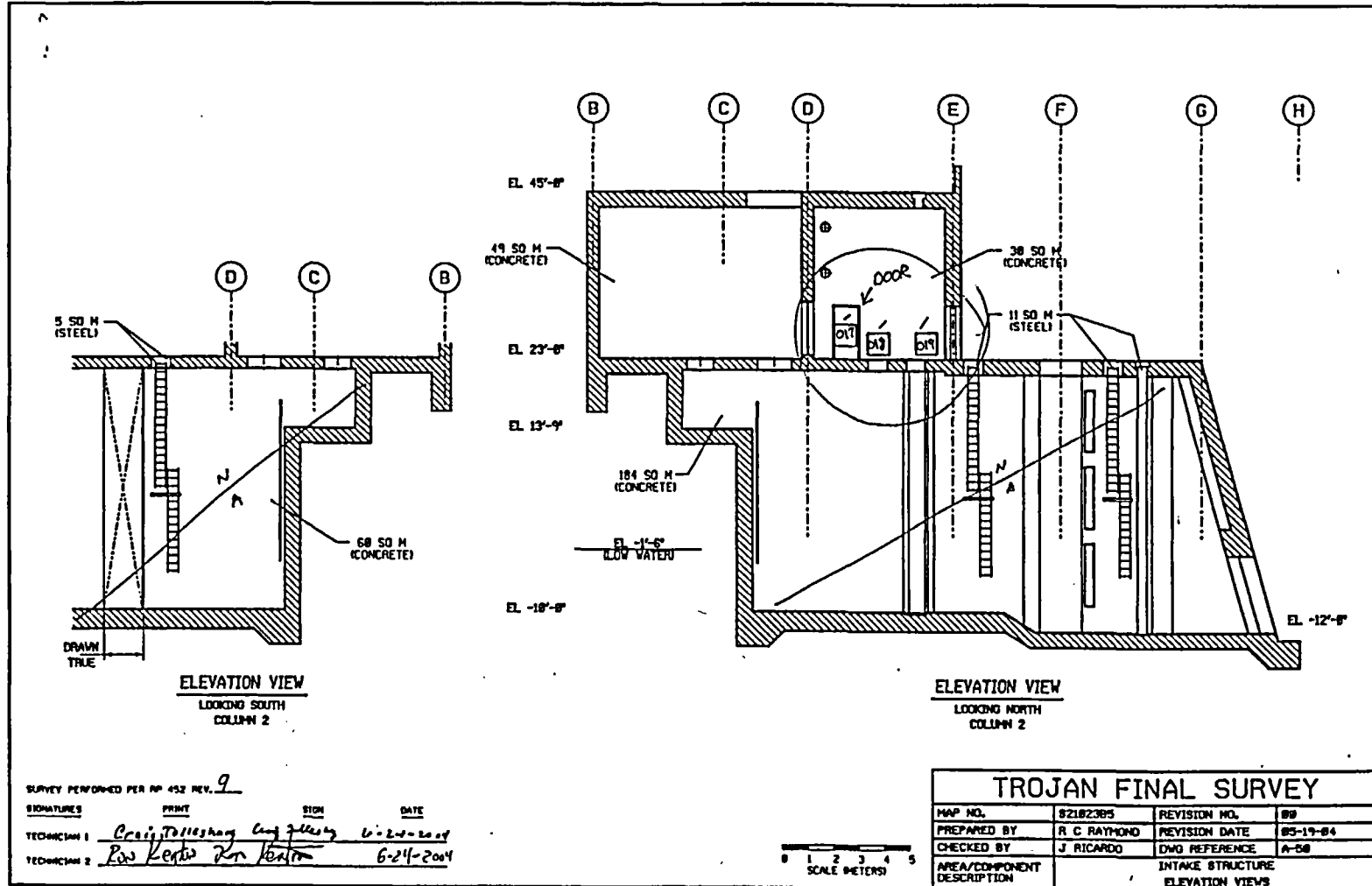


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S21023B
 Survey Unit Name: Intake Structure Interior

Classification: Class 3
 Size (m²): 2,280

Scan Measurement Locations Map

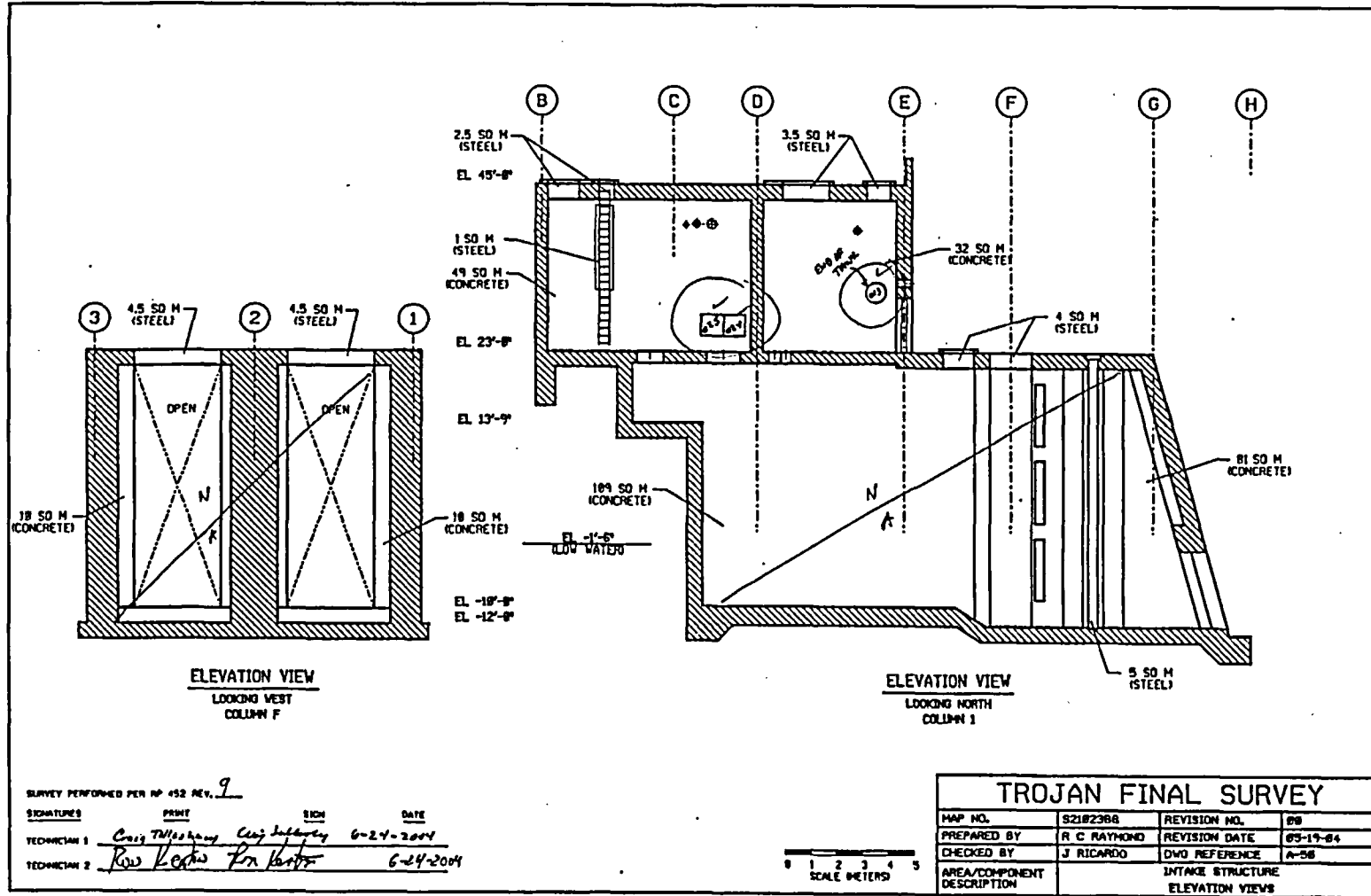


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S21023B
 Survey Unit Name: Intake Structure Interior

Classification: Class 3
 Size (m²): 2,280

Scan Measurement Locations Map



SURVEY PERFORMED PER AP 452 REV. 9

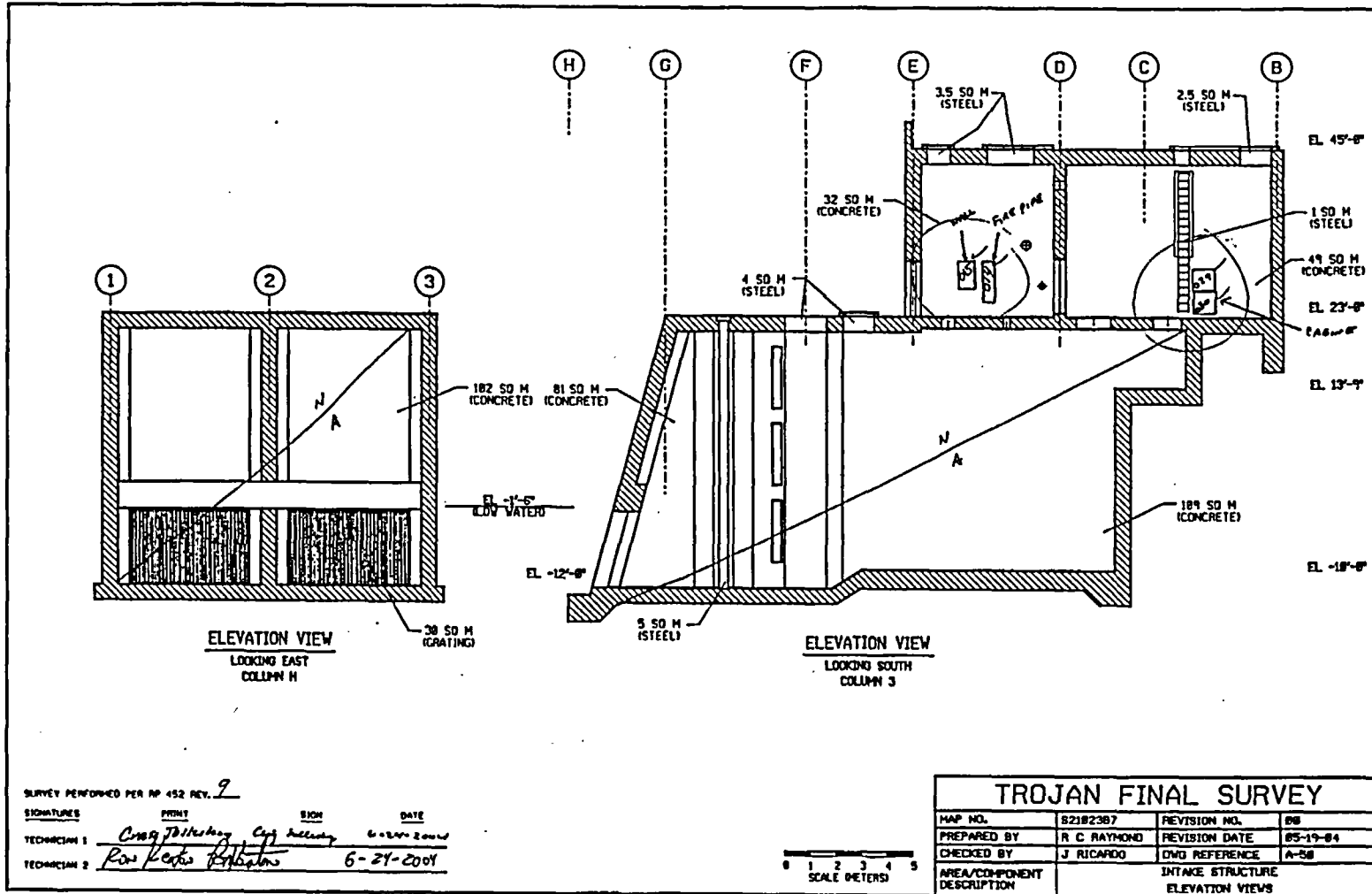
SIGNATURE	PRINT	SIGN	DATE
<i>Craig T. Mackay</i>	Craig Mackay		6-24-2004
<i>Paul K. ...</i>	Paul K. ...		6-24-2004

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S21023B
 Survey Unit Name: Intake Structure Interior

Classification: Class 3
 Size (m²): 2,280

Scan Measurement Locations Map

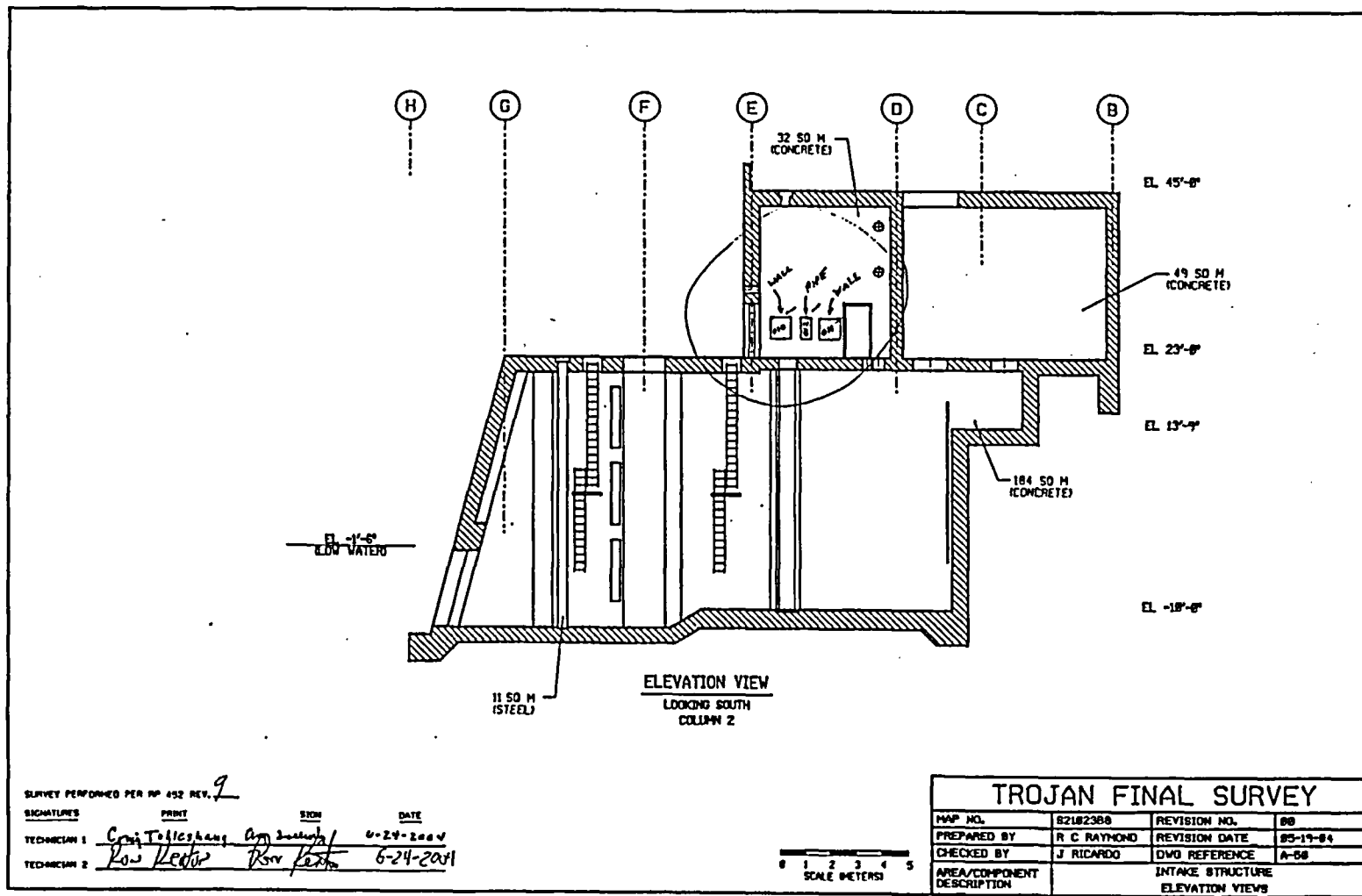


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S21023B
 Survey Unit Name: Intake Structure Interior

Classification: Class 3
 Size (m²): 2,280

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S22045A
 Survey Unit Name: Chlorine Building Interior

Classification: Class 3
 Size (m²): 1,125

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	43	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 1.226e+003
 Maximum Value : 1.993e+003
 Range : 7.670e+002
 Median : 1.610e+003
 Std. Deviation : 1.881e+002
 Mean : 1.561e+003
 95% UCL : 1.609e+003

Measurement Values

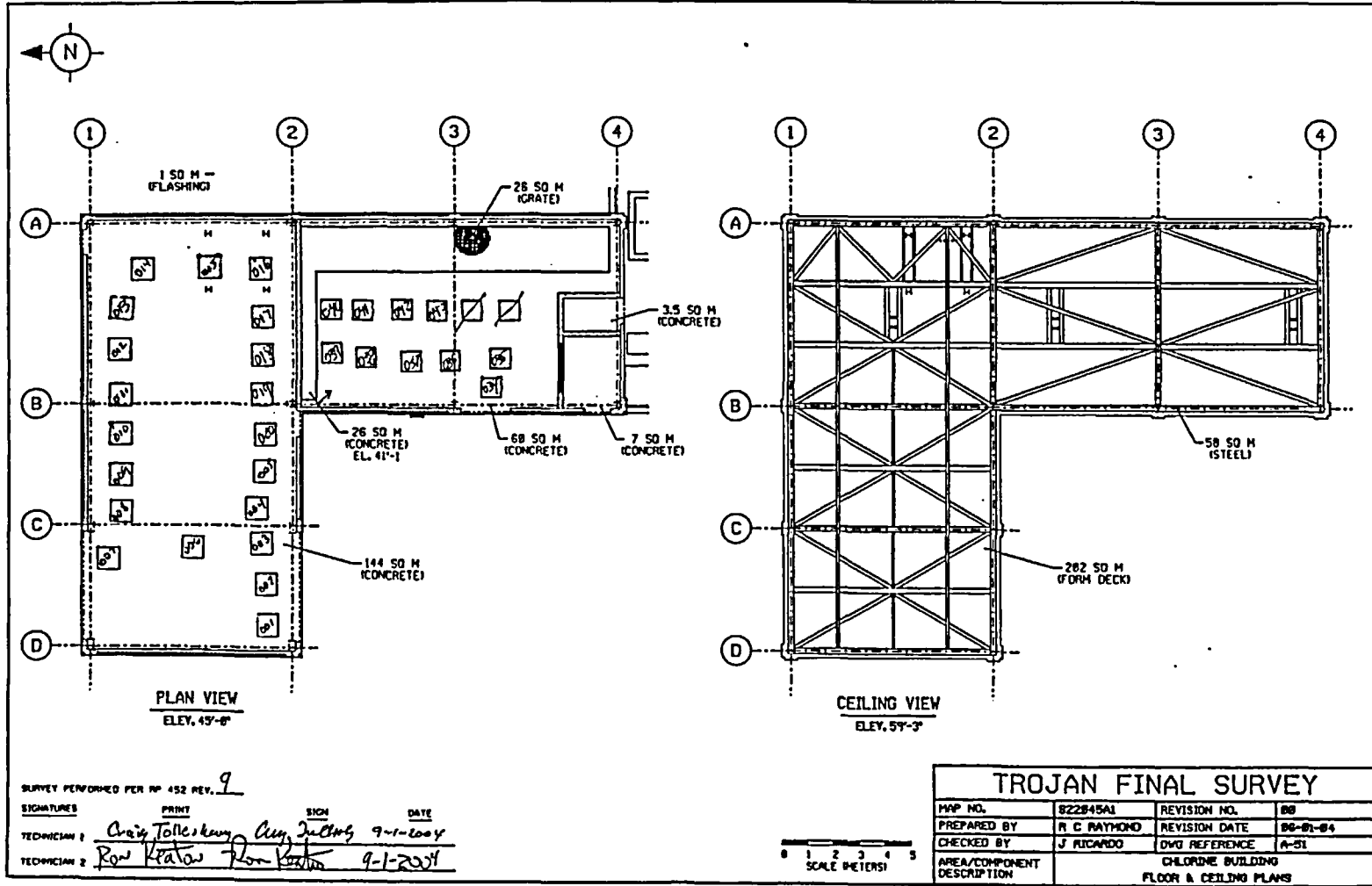
Location	Value	Location	Value	Location	Value
000001	1.661e+003	000018	1.638e+003	000035	1.792e+003
000002	1.601e+003	000019	1.640e+003	000036	1.758e+003
000003	1.608e+003	000020	1.677e+003	000037	1.740e+003
000004	1.608e+003	000021	1.305e+003	000038	1.615e+003
000005	1.646e+003	000022	1.246e+003	000039	1.610e+003
000006	1.717e+003	000023	1.295e+003	000040	1.651e+003
000007	1.715e+003	000024	1.226e+003	000041	1.821e+003
000008	1.527e+003	000025	1.240e+003	000042	1.993e+003
000009	1.721e+003	000026	1.375e+003	000043	1.426e+003
000010	1.628e+003	000027	1.364e+003		
000011	1.751e+003	000028	1.277e+003		
000012	1.748e+003	000029	1.322e+003		
000013	1.628e+003	000030	1.249e+003		
000014	1.535e+003	000031	1.599e+003		
000015	1.518e+003	000032	1.413e+003		
000016	1.580e+003	000033	1.309e+003		
000017	1.645e+003	000034	1.685e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S22045A
 Survey Unit Name: Chlorine Building Interior

Classification: Class 3
 Size (m²): 1,125

Scan Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 9

SIGNATURE	PRINT	SIGN	DATE
<i>Craig Tollesky</i>	Craig Tollesky	<i>[Signature]</i>	9-1-2004
<i>Ron Kraton</i>	Ron Kraton	<i>[Signature]</i>	9-1-2004

TROJAN FINAL SURVEY			
MAP NO.	S22045A1	REVISION NO.	00
PREPARED BY	R C RAYMOND	REVISION DATE	08-01-04
CHECKED BY	J RICARDO	DWG REFERENCE	A-01
AREA/COMPONENT DESCRIPTION	CHLORINE BUILDING FLOOR & CEILING PLANS		

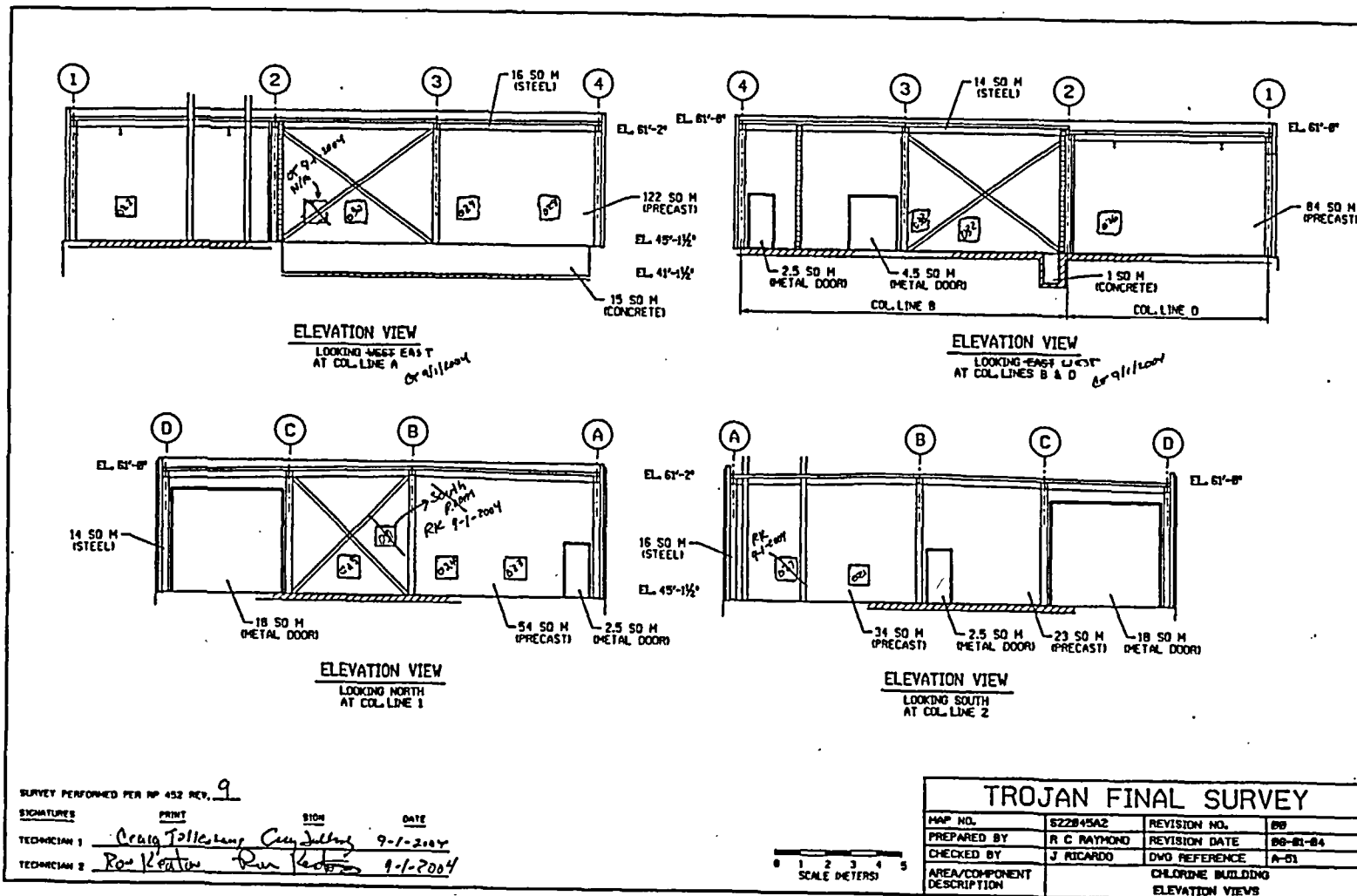
FILE NAME: S22045A

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S22045A
 Survey Unit Name: Chlorine Building Interior

Classification: Class 3
 Size (m²): 1,125

Scan Measurement Locations Map



SURVEY PERFORMED PER HP 452 REV. 9

SIGNATURE	PRINT	SIGN	DATE
<i>[Signature]</i>	CRISTINA TOLLESON	<i>[Signature]</i>	9-1-2004
<i>[Signature]</i>	ROBERT KEATON	<i>[Signature]</i>	9-1-2004

TROJAN FINAL SURVEY			
MAP NO.	S22045A2	REVISION NO.	00
PREPARED BY	R. C. RAYMOND	REVISION DATE	08-01-04
CHECKED BY	J. RICARDO	DWG REFERENCE	A-01
AREA/COMPONENT DESCRIPTION	CHLORINE BUILDING ELEVATION VIEWS		

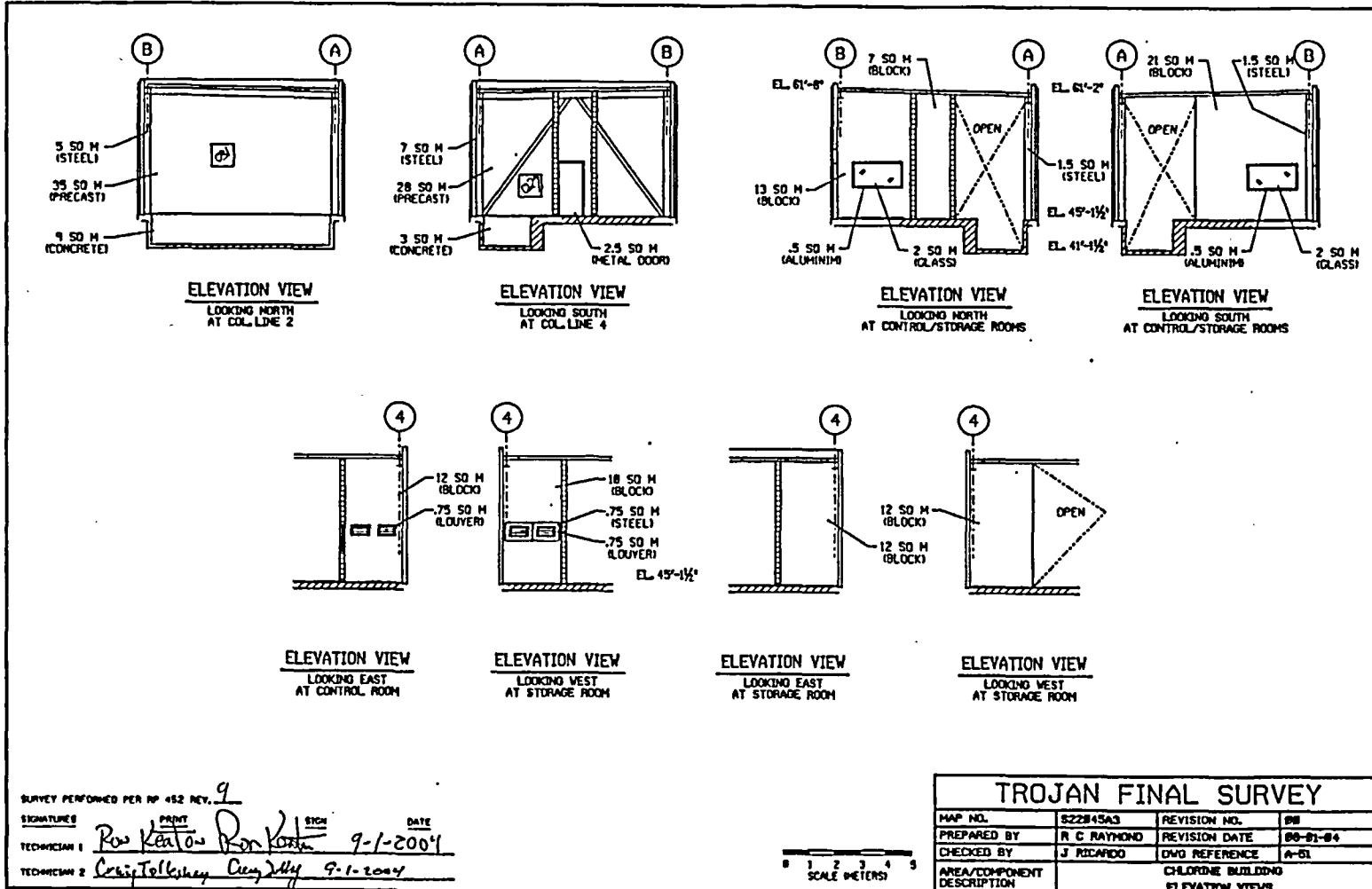
FILE NAME: S22045A

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S22045A
 Survey Unit Name: Chlorine Building Interior

Classification: Class 3
 Size (m²): 1,125

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S23032A
 Survey Unit Name: Guardhouse Interior

Classification: Class 3
 Size (m²): 1,025

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	52	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 9.199e+002
 Maximum Value : 1.506e+003
 Range : 5.861e+002
 Median : 1.125e+003
 Std. Deviation : 1.226e+002
 Mean : 1.138e+003
 95% UCL : 1.166e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	1.145e+003	000018	1.058e+003	000035	1.218e+003
000002	1.081e+003	000019	1.091e+003	000036	9.199e+002
000003	1.019e+003	000020	1.154e+003	000037	1.266e+003
000004	9.337e+002	000021	1.123e+003	000038	1.119e+003
000005	9.549e+002	000022	1.037e+003	000039	1.106e+003
000006	1.159e+003	000023	1.158e+003	000040	1.054e+003
000007	1.027e+003	000024	1.146e+003	000041	1.030e+003
000008	1.017e+003	000025	1.197e+003	000042	9.954e+002
000009	1.104e+003	000026	1.127e+003	000043	1.036e+003
000010	1.111e+003	000027	1.143e+003	000044	1.360e+003
000011	1.146e+003	000028	1.102e+003	000045	1.395e+003
000012	1.136e+003	000029	1.203e+003	000046	1.271e+003
000013	1.123e+003	000030	1.231e+003	000047	9.319e+002
000014	1.088e+003	000031	1.506e+003	000048	1.205e+003
000015	1.023e+003	000032	1.280e+003	000049	1.189e+003
000016	1.027e+003	000033	1.224e+003	000050	1.150e+003
000017	1.068e+003	000034	1.300e+003	000051	1.329e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S23032A
Survey Unit Name: Guardhouse Interior

Classification: Class 3
Size (m²): 1,025

Scan Measurement Data

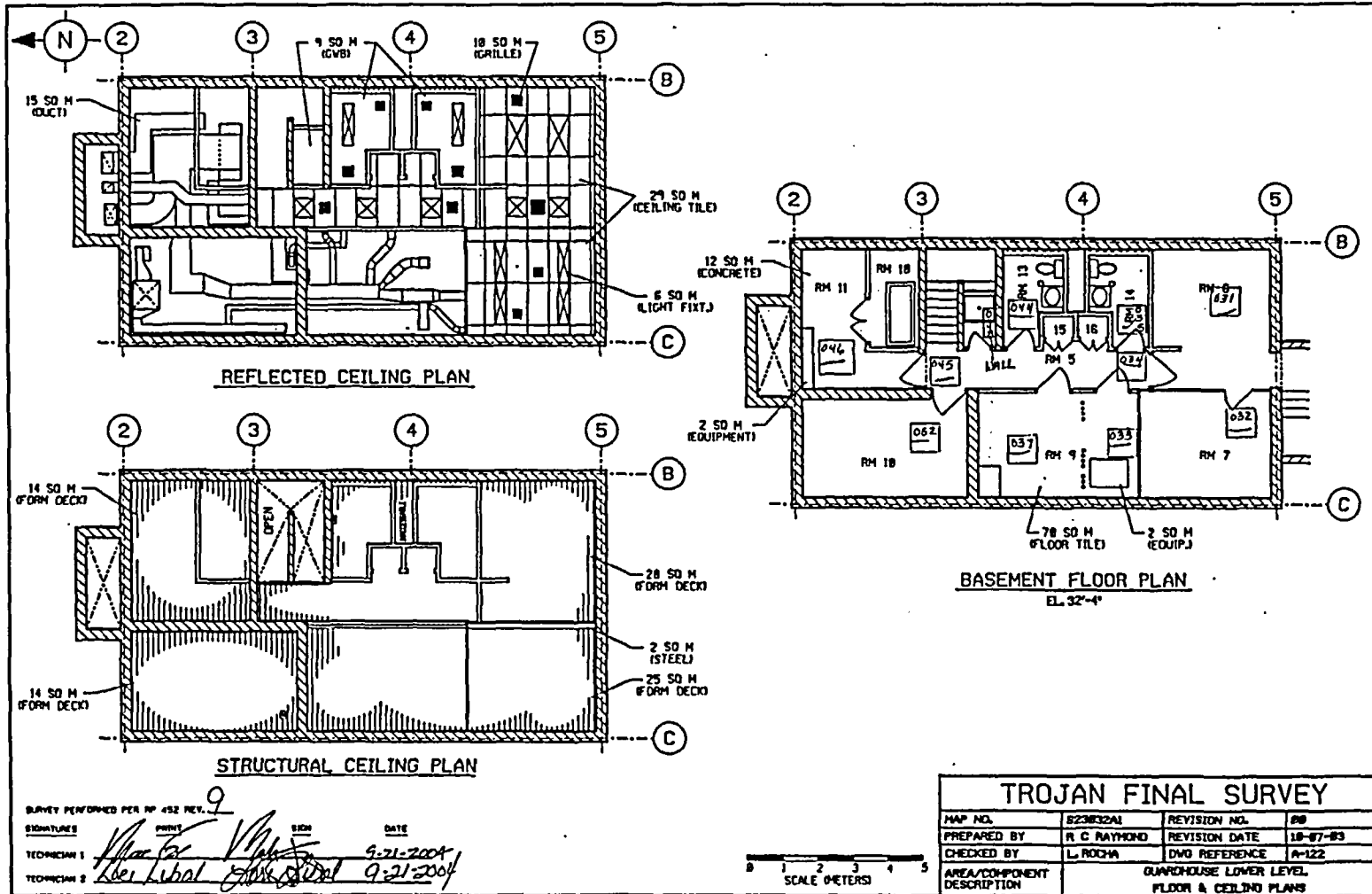
<u>Location</u>	<u>Value</u>
000052	1.347e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S23032A
 Survey Unit Name: Guardhouse Interior

Classification: Class 3
 Size (m²): 1,025

Scan Measurement Locations Map

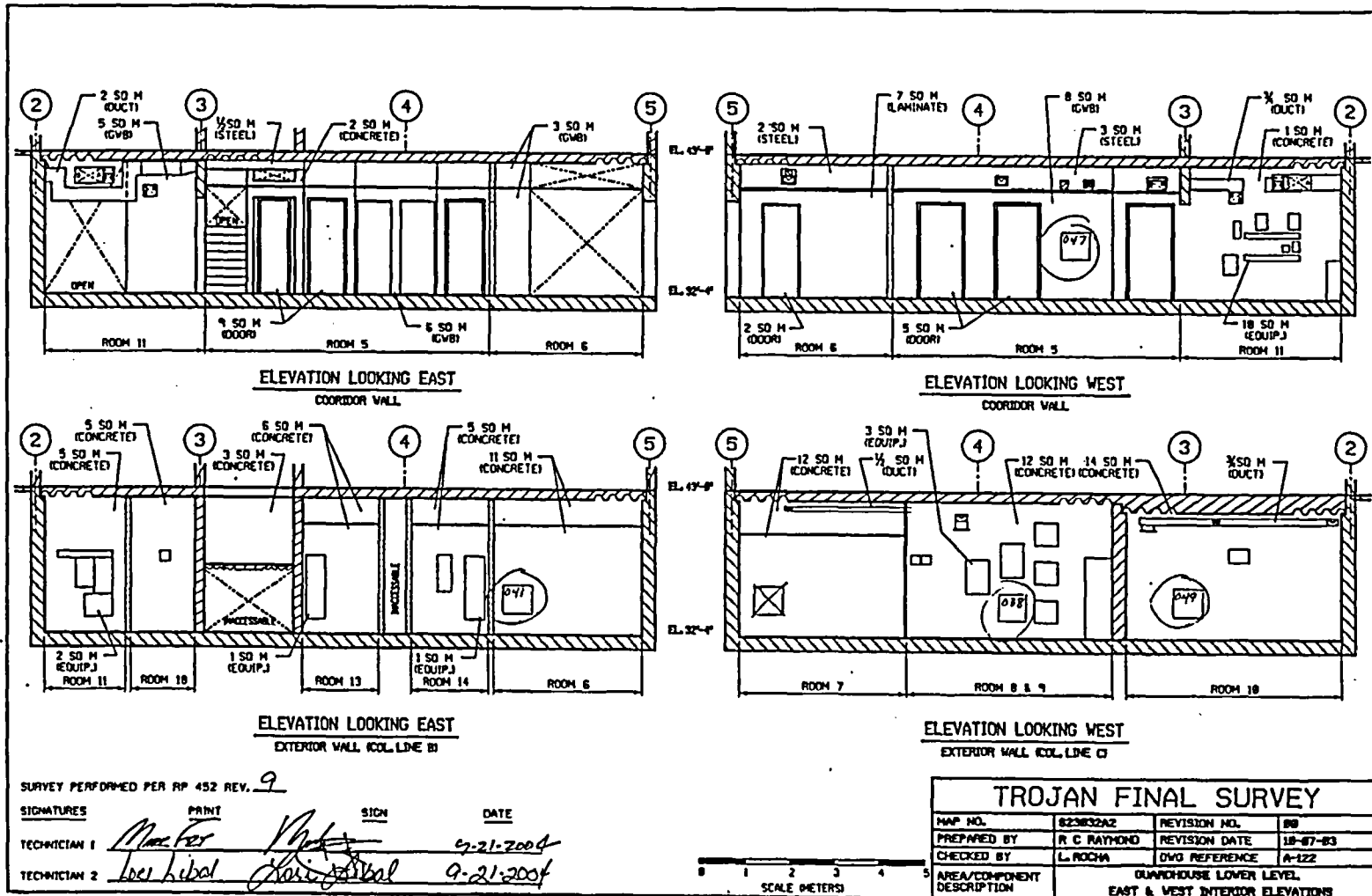


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S23032A
 Survey Unit Name: Guardhouse Interior

Classification: Class 3
 Size (m²): 1,025

Scan Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 9

SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	<i>Mark Fox</i>	<i>[Signature]</i>	9-21-2004
TECHNICIAN 2	<i>Loel Hebel</i>	<i>[Signature]</i>	9-21-2004

TROJAN FINAL SURVEY			
MAP NO.	S23032A2	REVISION NO.	00
PREPARED BY	R. C. RAYMOND	REVISION DATE	18-07-03
CHECKED BY	L. ROCHA	DWG REFERENCE	A-122
AREA/COMPONENT DESCRIPTION	GUARDHOUSE LOWER LEVEL EAST & WEST INTERIOR ELEVATIONS		

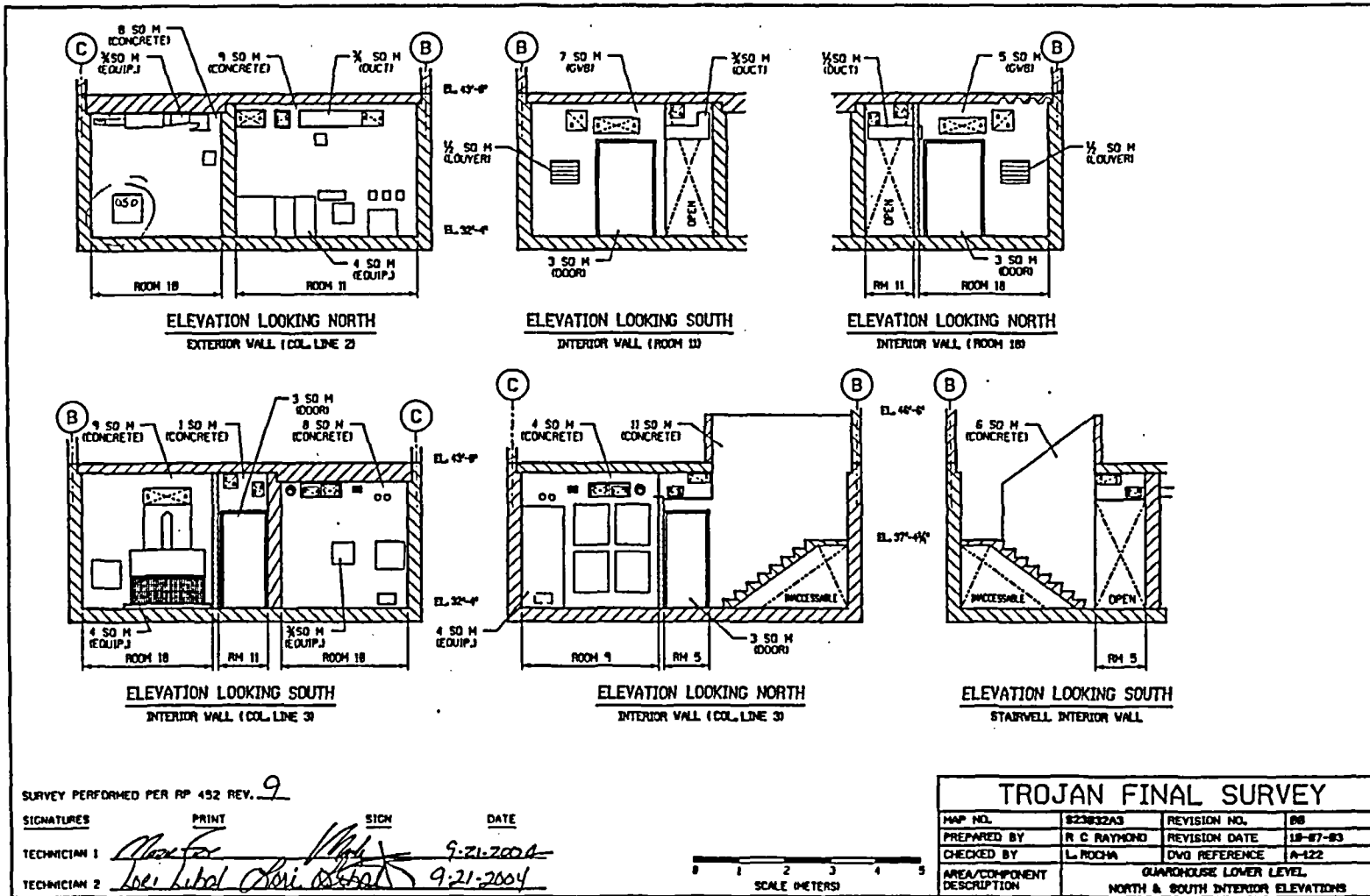
FILE NAME: S23032A

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S23032A
 Survey Unit Name: Guardhouse Interior

Classification: Class 3
 Size (m²): 1,025

Scan Measurement Locations Map

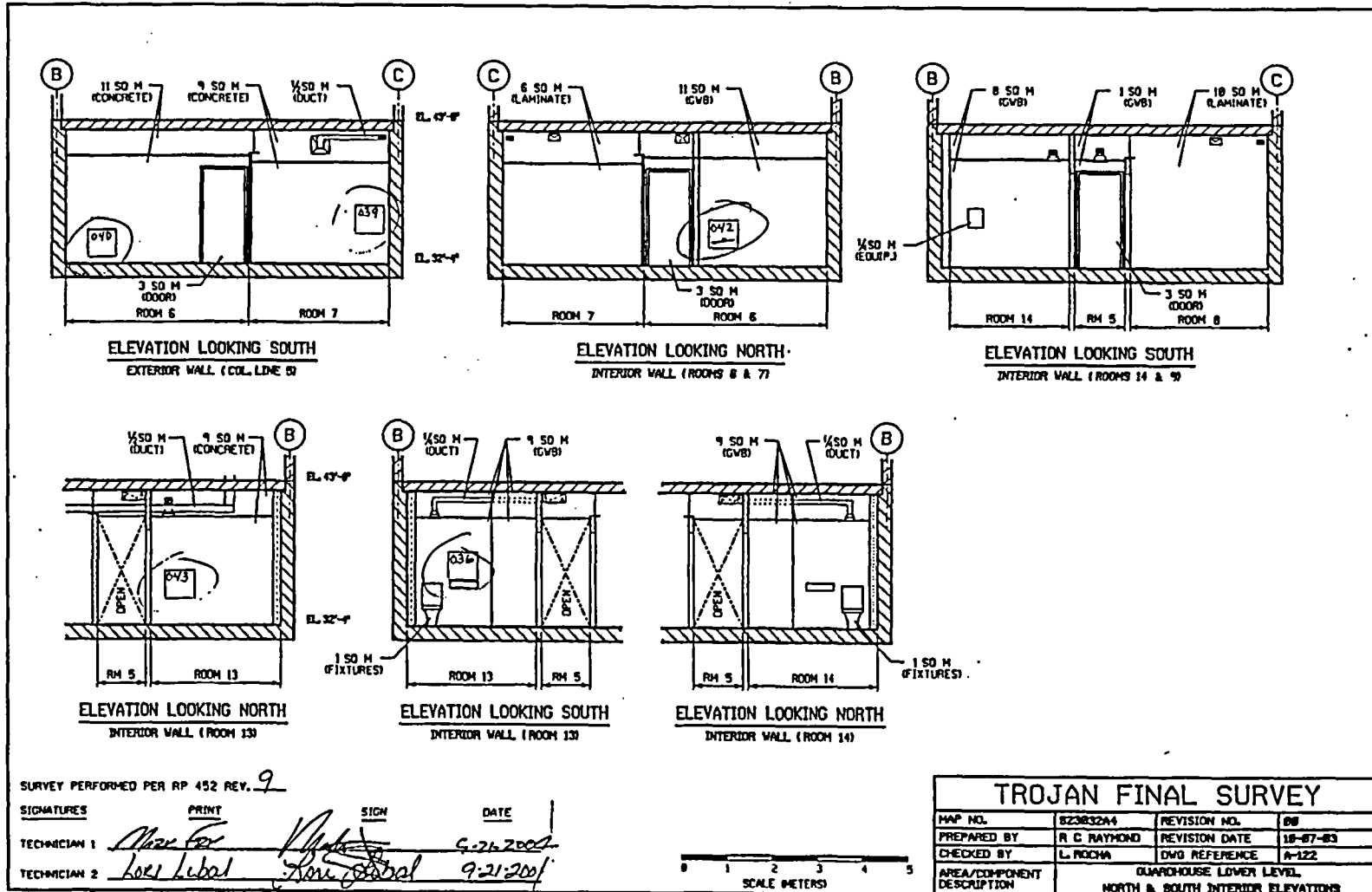


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S23032A
 Survey Unit Name: Guardhouse Interior

Classification: Class 3
 Size (m²): 1,025

Scan Measurement Locations Map

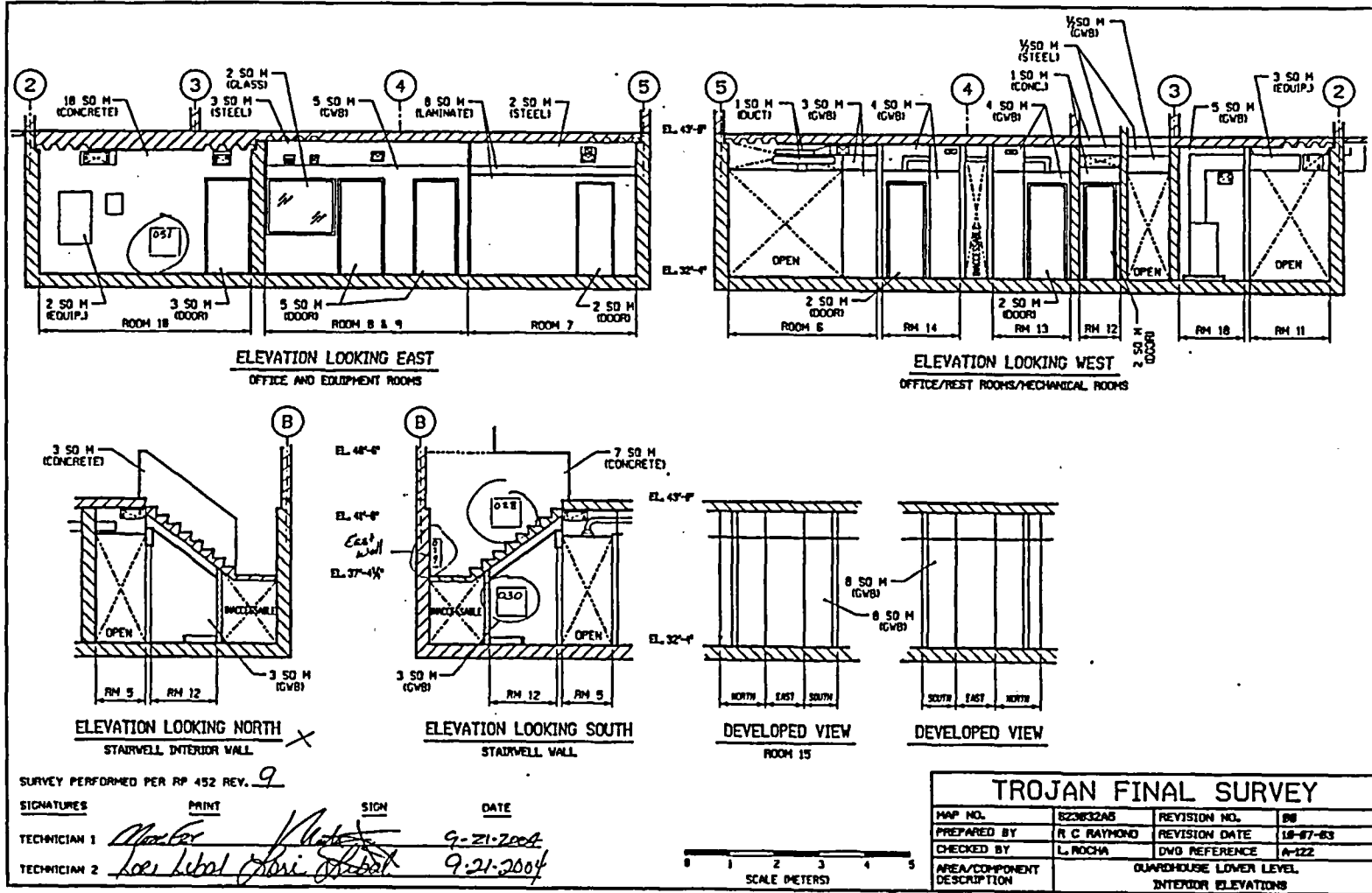


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S23032A
 Survey Unit Name: Guardhouse Interior

Classification: Class 3
 Size (m²): 1,025

Scan Measurement Locations Map

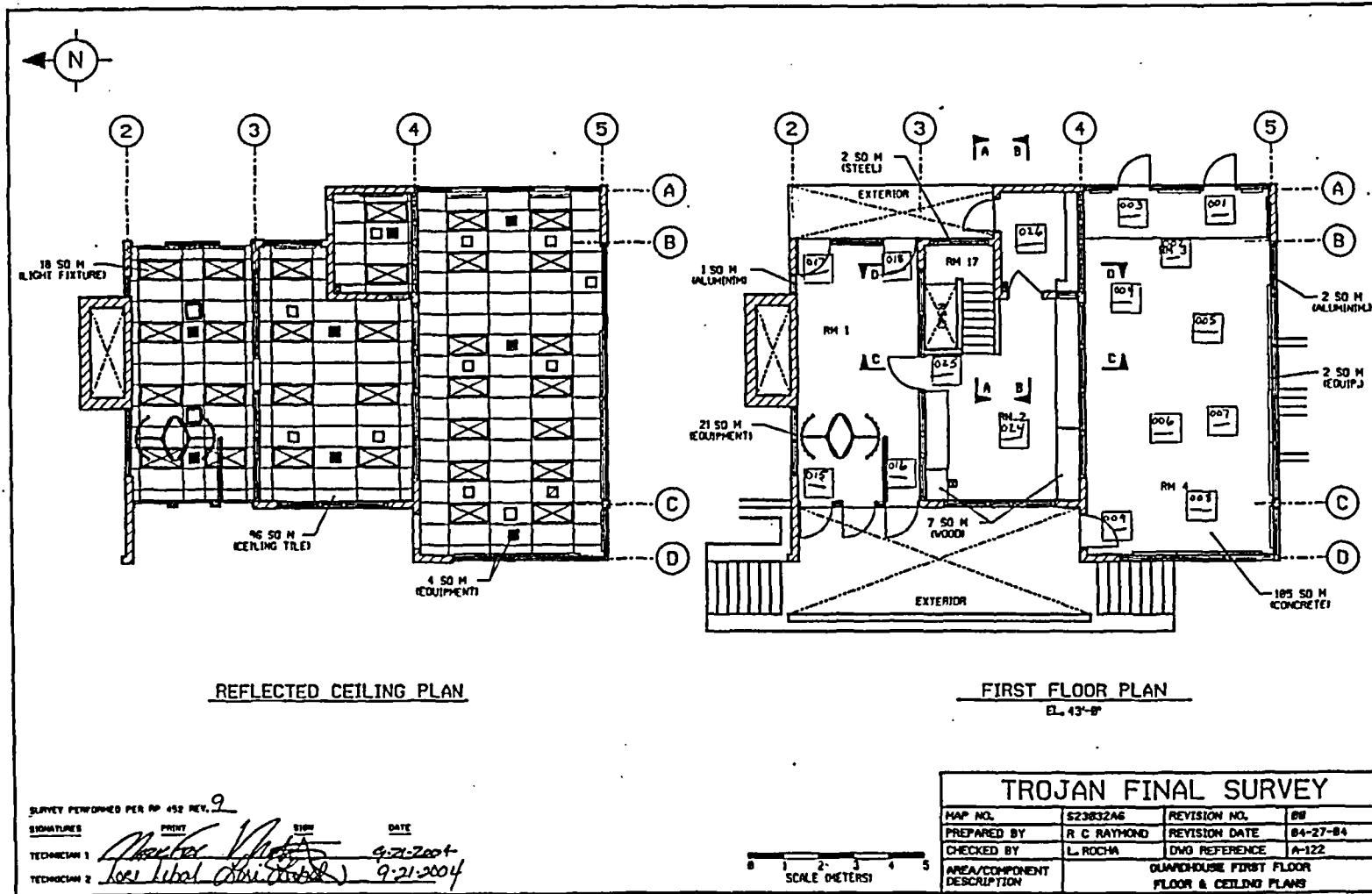


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S23032A
 Survey Unit Name: Guardhouse Interior

Classification: Class 3
 Size (m²): 1,025

Scan Measurement Locations Map

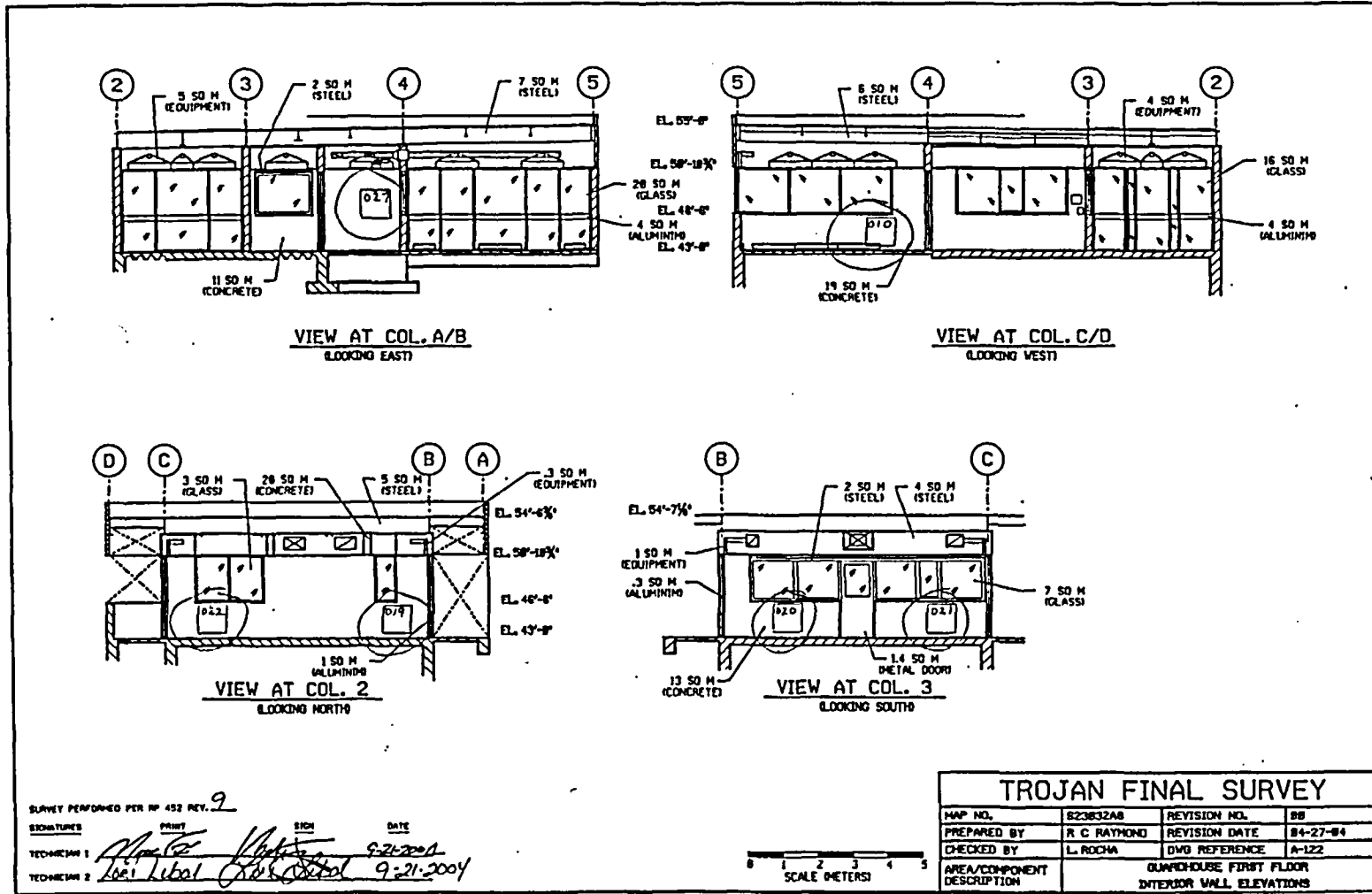


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S23032A
 Survey Unit Name: Guardhouse Interior

Classification: Class 3
 Size (m²): 1,025

Scan Measurement Locations Map

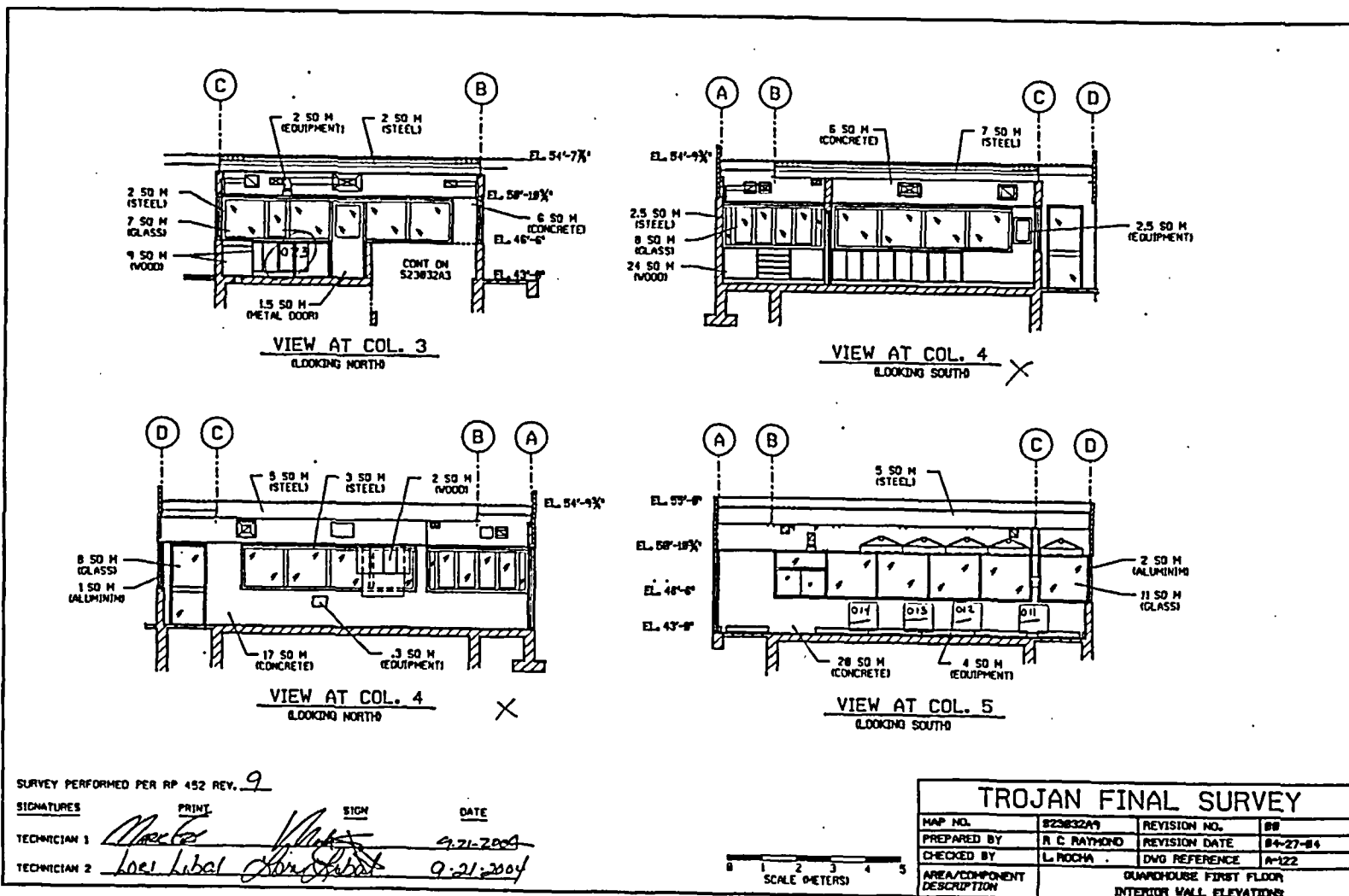


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S23032A
 Survey Unit Name: Guardhouse Interior

Classification: Class 3
 Size (m²): 1,025

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S24038A
 Survey Unit Name: Technical Support Center Interior

Classification: Class 3
 Size (m²): 2,951

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	89	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 8.438e+002
 Maximum Value : 2.571e+003
 Range : 1.727e+003
 Median : 1.259e+003
 Std. Deviation : 3.369e+002
 Mean : 1.326e+003
 95% UCL : 1.385e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	1.064e+003	000018	1.293e+003	000035	9.930e+002
000002	1.074e+003	000019	1.711e+003	000036	1.068e+003
000003	1.343e+003	000020	1.248e+003	000037	1.266e+003
000004	1.271e+003	000021	1.660e+003	000038	1.262e+003
000005	1.604e+003	000022	1.459e+003	000039	9.588e+002
000006	1.336e+003	000023	1.449e+003	000040	1.236e+003
000007	1.186e+003	000024	1.384e+003	000041	1.230e+003
000008	1.877e+003	000025	2.134e+003	000042	1.071e+003
000009	1.887e+003	000026	1.095e+003	000043	1.332e+003
000010	1.759e+003	000027	1.325e+003	000044	1.365e+003
000011	1.458e+003	000028	1.014e+003	000045	1.361e+003
000012	2.316e+003	000029	1.249e+003	000046	1.385e+003
000013	1.650e+003	000030	1.082e+003	000047	1.376e+003
000014	1.301e+003	000031	1.378e+003	000048	1.286e+003
000015	1.540e+003	000032	1.171e+003	000049	1.297e+003
000016	1.190e+003	000033	9.310e+002	000050	1.363e+003
000017	1.545e+003	000034	1.148e+003	000051	1.328e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S24038A
Survey Unit Name: Technical Support Center Interior

Classification: Class 3
Size (m²): 2,951

Scan Measurement Data

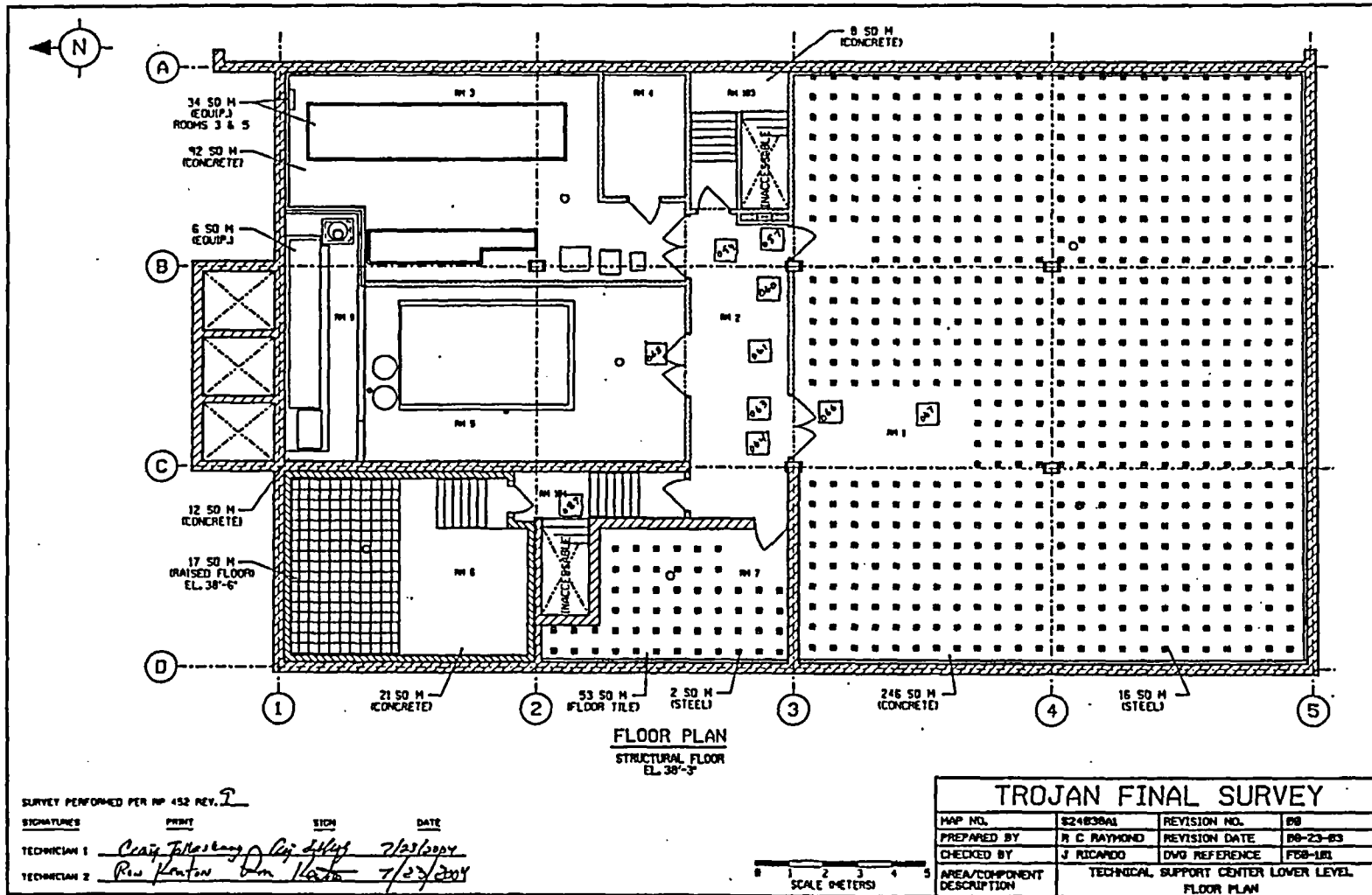
<u>Location</u>	<u>Value</u>
000052	2.571e+003
000053	2.062e+003
000054	1.234e+003
000055	8.438e+002
000056	8.681e+002
000057	1.192e+003
000058	8.869e+002
000059	8.447e+002
000060	1.252e+003
000061	1.189e+003
000062	1.048e+003
000063	1.345e+003
000064	1.114e+003
000065	9.166e+002
000066	1.095e+003
000067	1.080e+003
000068	1.420e+003
000069	1.166e+003
000070	2.286e+003
000071	2.221e+003
000072	1.113e+003
000073	1.184e+003
000074	1.321e+003
000075	1.177e+003
000076	1.259e+003
000077	1.157e+003
000078	1.228e+003
000079	1.311e+003
000080	1.167e+003
000081	1.201e+003
000082	1.191e+003
000083	1.096e+003
000084	1.015e+003
000085	9.651e+002
000086	1.067e+003
000087	1.425e+003
000088	1.402e+003
000089	1.782e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S24038A
 Survey Unit Name: Technical Support Center Interior

Classification: Class 3
 Size (m²): 2,951

Scan Measurement Locations Map



SURVEY PERFORMED PER HP 452 REV. 2
 SIGNATURES PRINT SIGN DATE
 TECHNICIAN 1 *Craig Johnson* *Craig Johnson* 7/23/2004
 TECHNICIAN 2 *Russ Kanton* *Russ Kanton* 7/23/2004

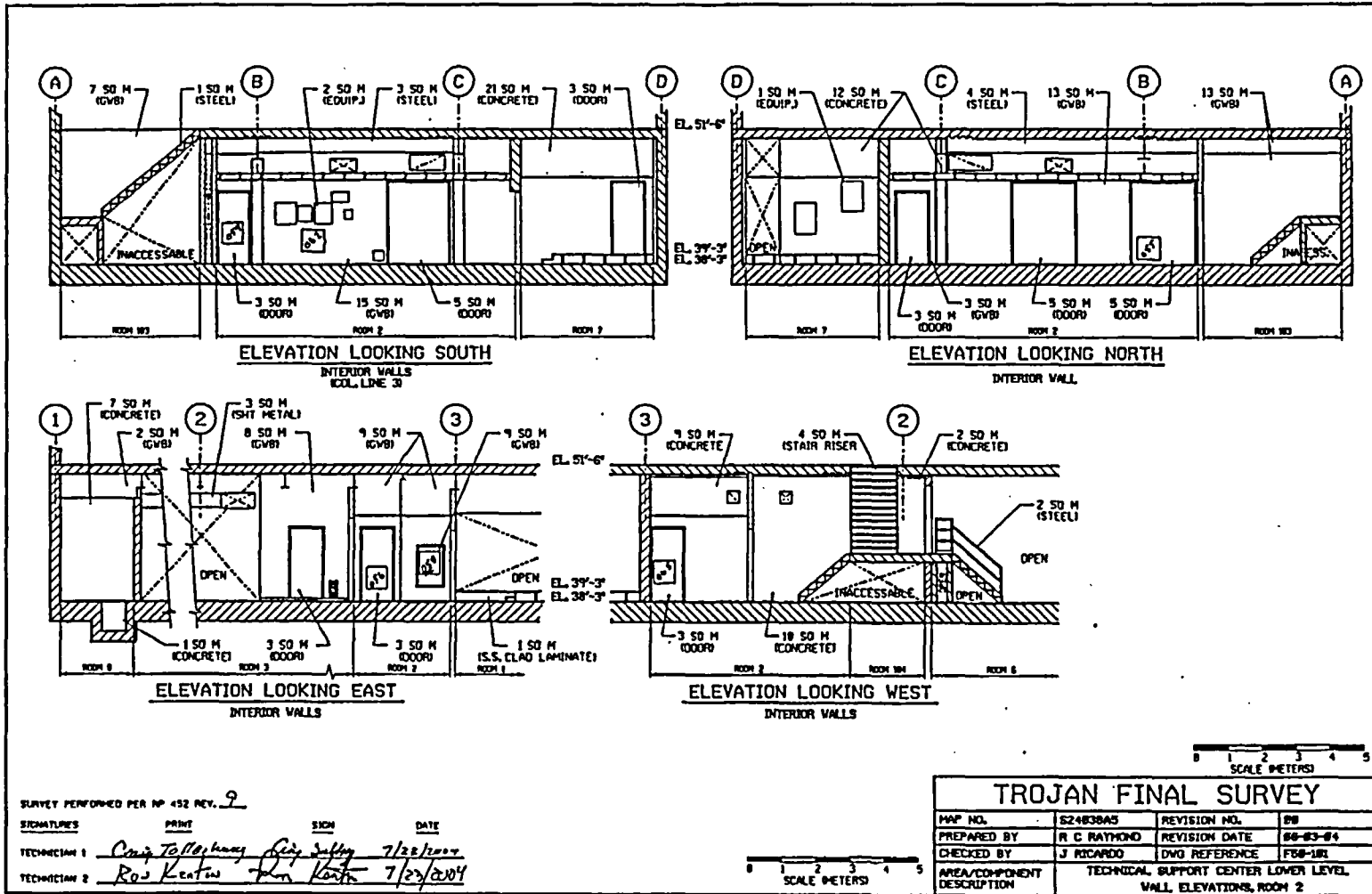
TROJAN FINAL SURVEY			
HAP NO.	S24038A1	REVISION NO.	00
PREPARED BY	R. C. RAYMOND	REVISION DATE	08-23-03
CHECKED BY	J. RICARDO	DWG REFERENCE	F08-101
AREA/COMPONENT DESCRIPTION	TECHNICAL SUPPORT CENTER LOWER LEVEL FLOOR PLAN		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S24038A
 Survey Unit Name: Technical Support Center Interior

Classification: Class 3
 Size (m²): 2,951

Scan Measurement Locations Map

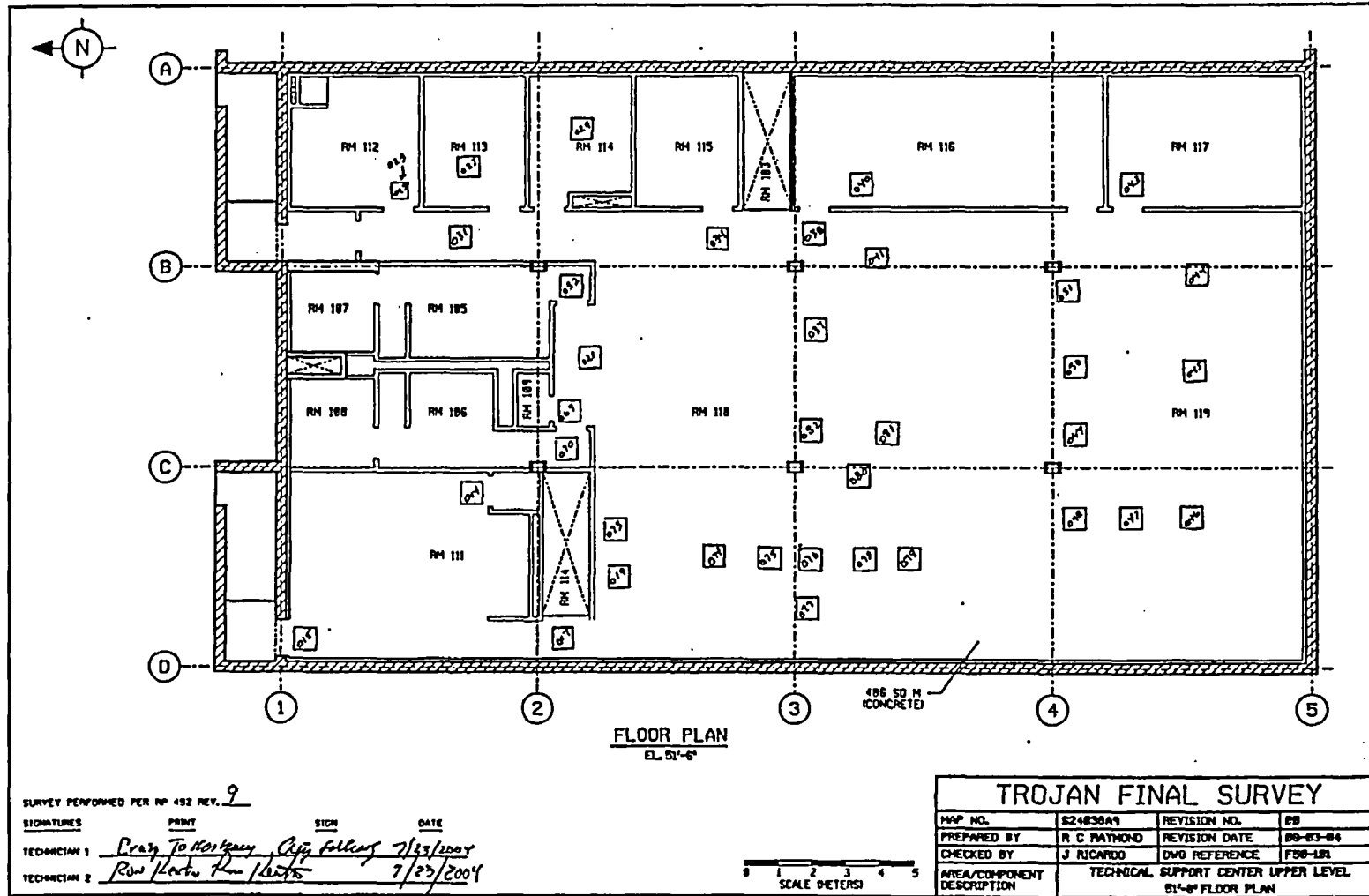


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S24038A
 Survey Unit Name: Technical Support Center Interior

Classification: Class 3
 Size (m²): 2,951

Scan Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 9

SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	<i>Ray To Hongway</i>	<i>Ray To Hongway</i>	<i>7/23/2004</i>
TECHNICIAN 2	<i>Ron Lantz</i>	<i>Ron Lantz</i>	<i>7/23/2004</i>

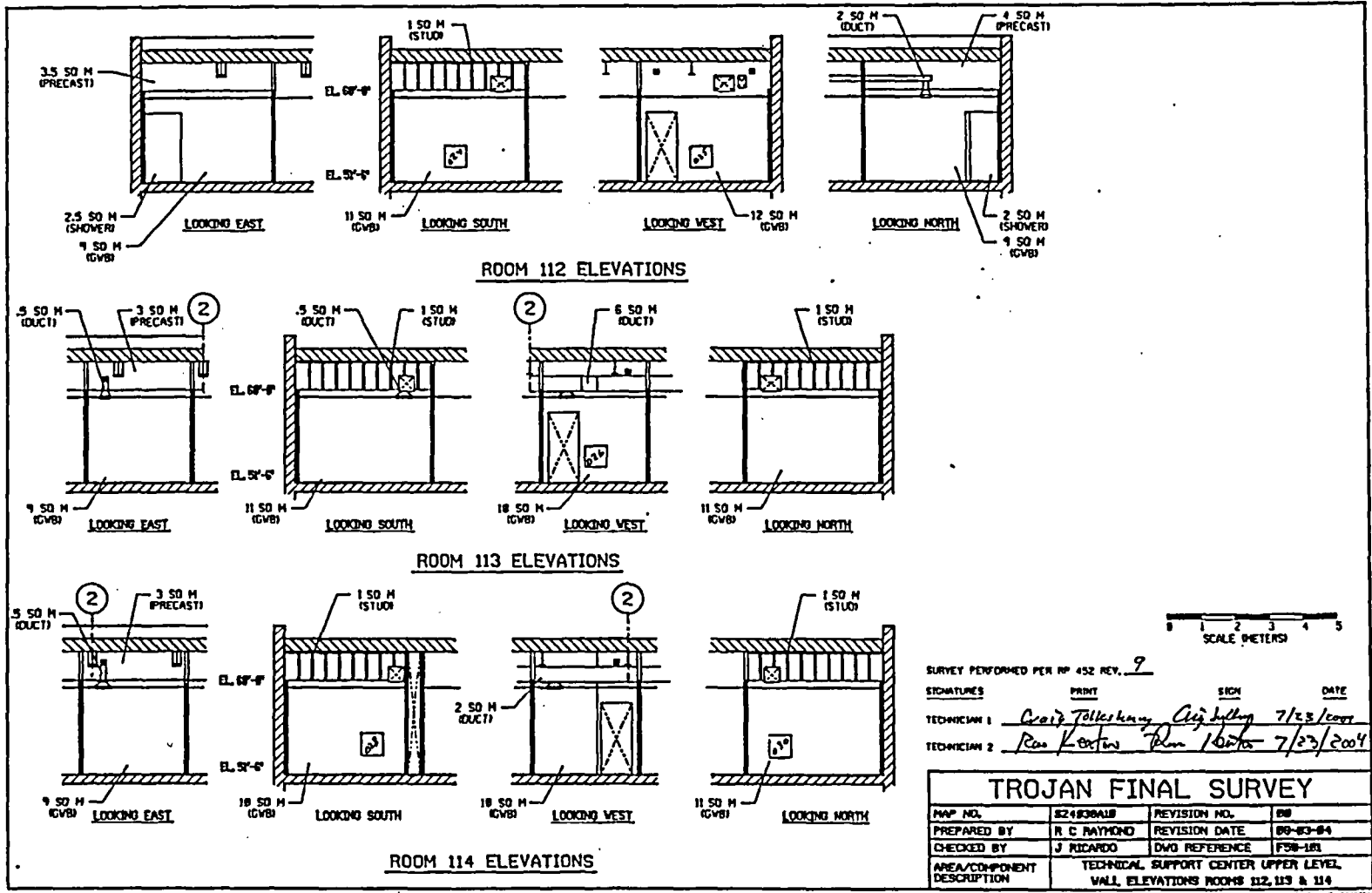
0 1 2 3 4 5
SCALE METERS

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S24038A
 Survey Unit Name: Technical Support Center Interior

Classification: Class 3
 Size (m²): 2,951

Scan Measurement Locations Map

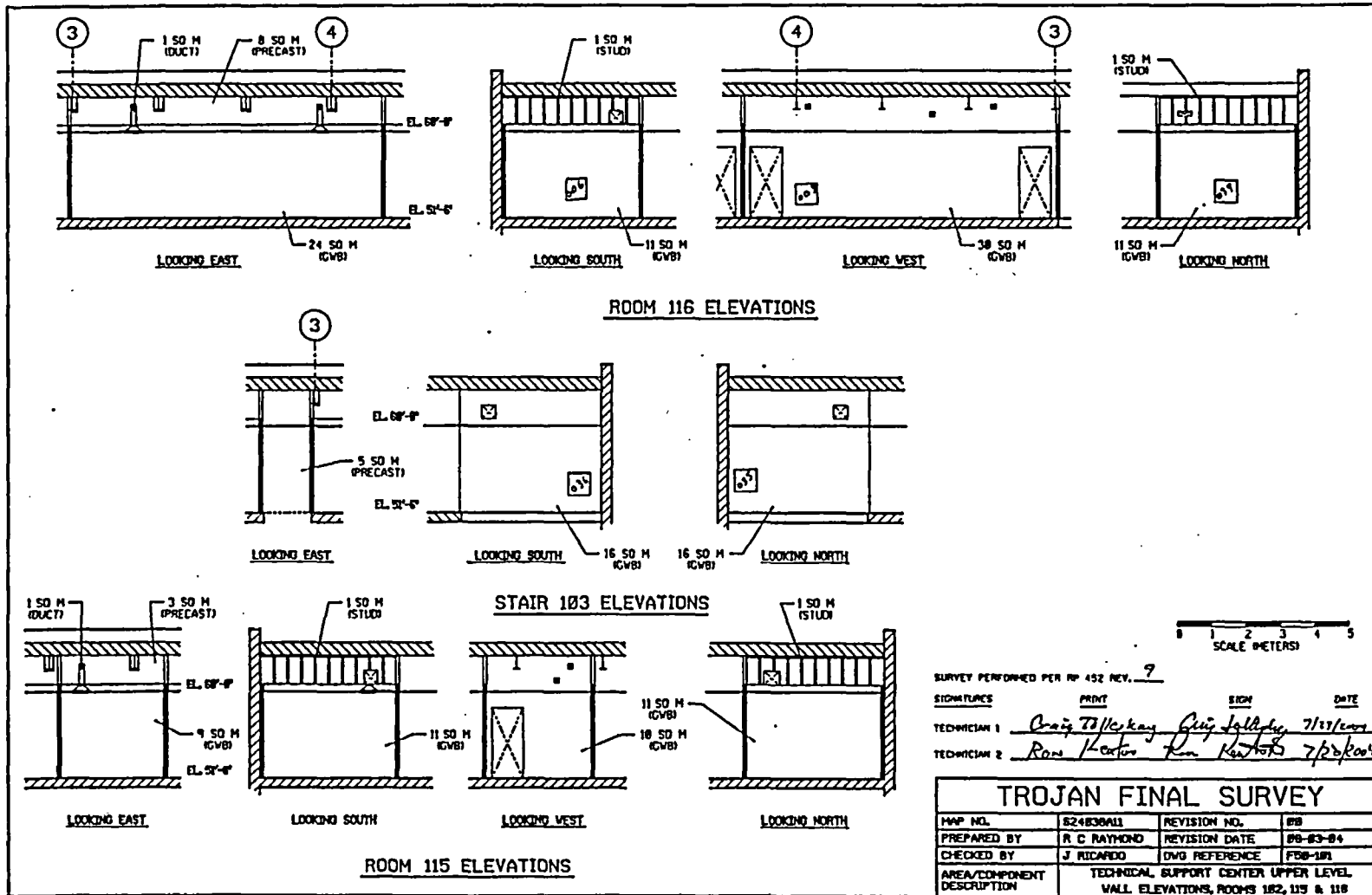


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S24038A
 Survey Unit Name: Technical Support Center Interior

Classification: Class 3
 Size (m²): 2,951

Scan Measurement Locations Map

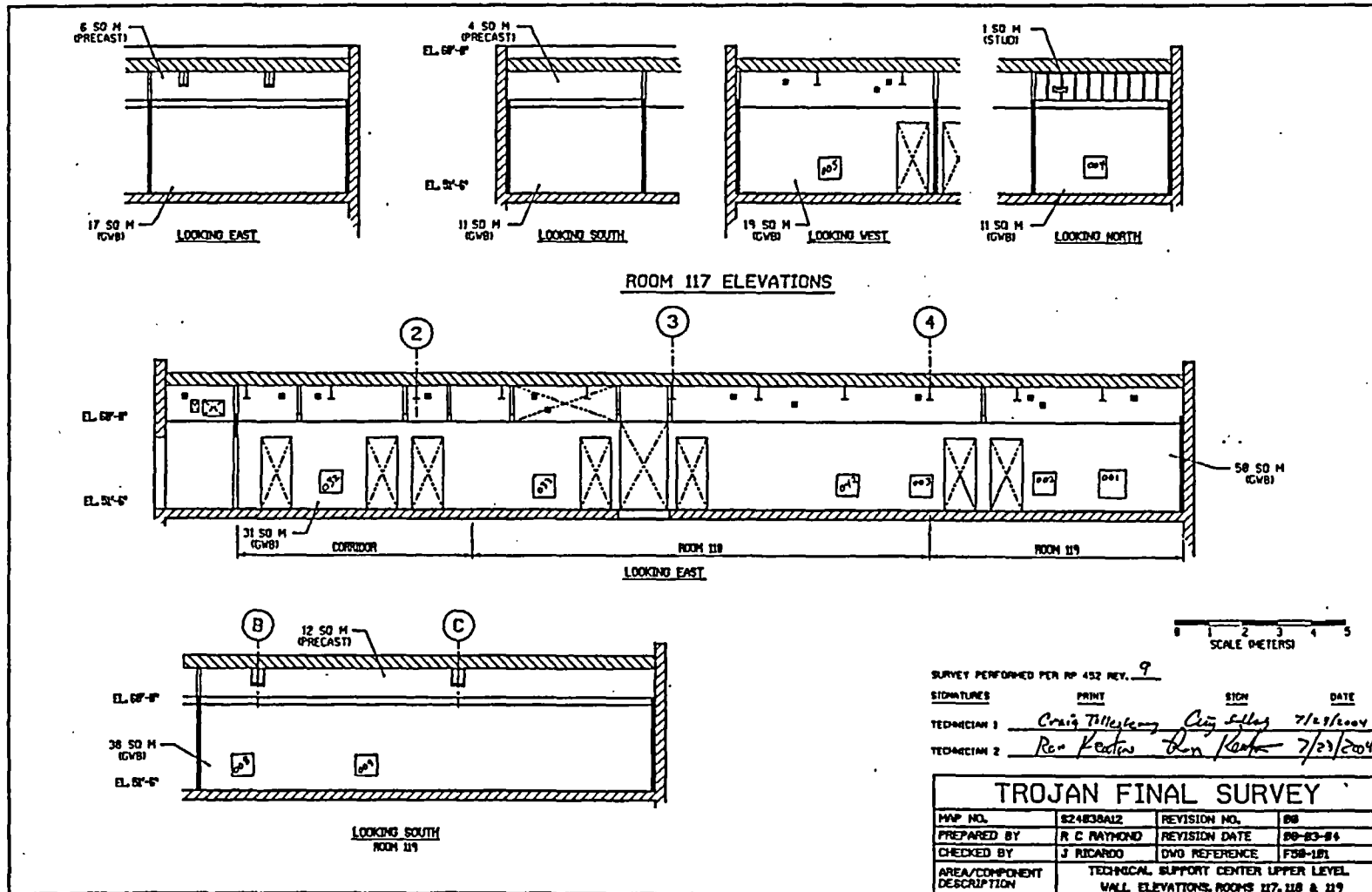


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S24038A
 Survey Unit Name: Technical Support Center Interior

Classification: Class 3
 Size (m²): 2,951

Scan Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 9
 SIGNATURES PRINT SIGN DATE
 TECHNICIAN 1 *Craig Tilley* *Craig Tilley* 7/27/2004
 TECHNICIAN 2 *Ray Keates* *Ray Keates* 7/27/2004

TROJAN FINAL SURVEY			
MAP NO.	S24038A12	REVISION NO.	08
PREPARED BY	R C RAYMOND	REVISION DATE	08-03-04
CHECKED BY	J RICARDO	DWG REFERENCE	F58-1B1
AREA/COMPONENT DESCRIPTION	TECHNICAL SUPPORT CENTER UPPER LEVEL WALL ELEVATIONS, ROOMS 117, 118 & 119		

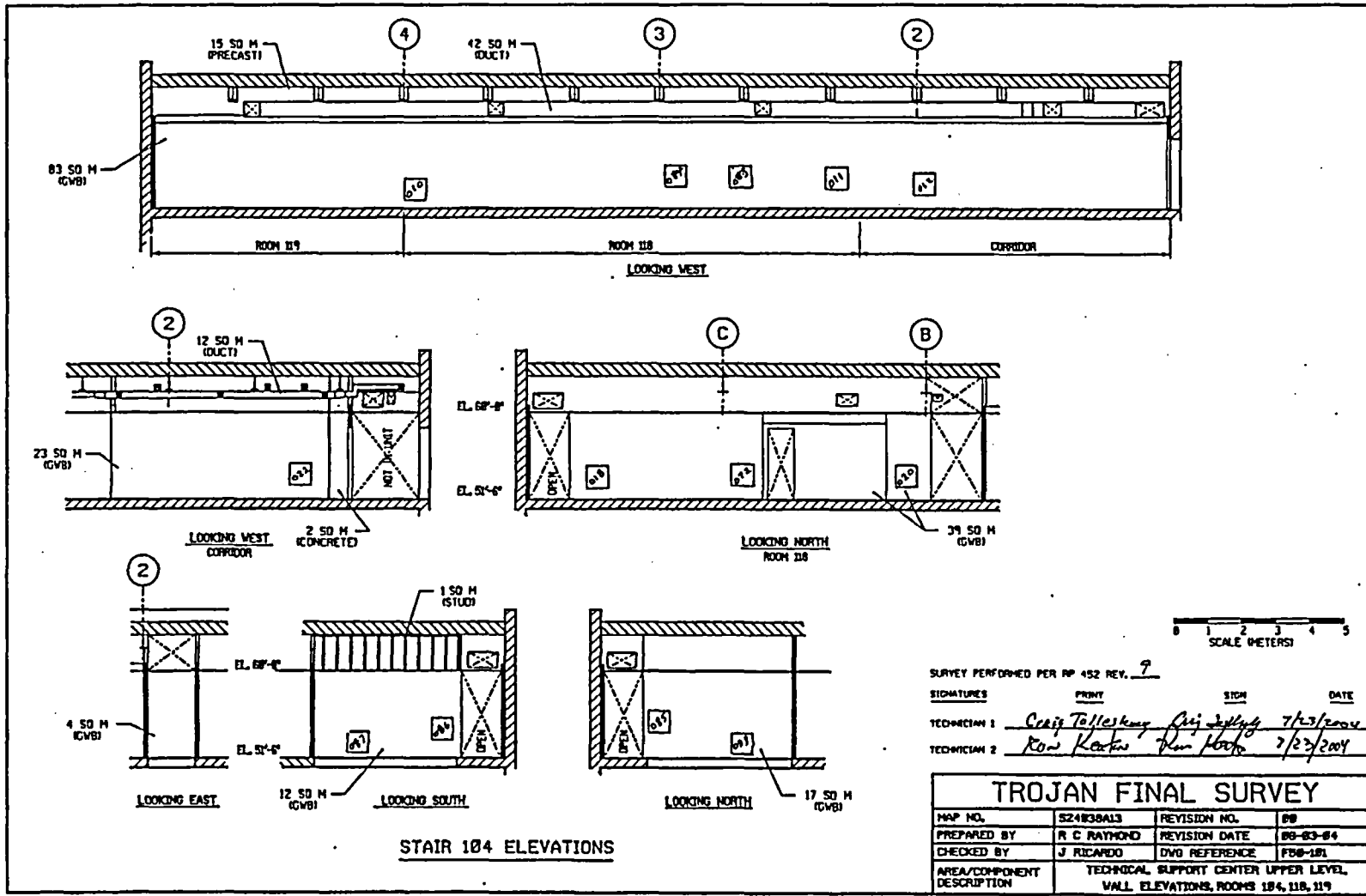
FILE NO. S24038A

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S24038A
 Survey Unit Name: Technical Support Center Interior

Classification: Class 3
 Size (m²): 2,951

Scan Measurement Locations Map

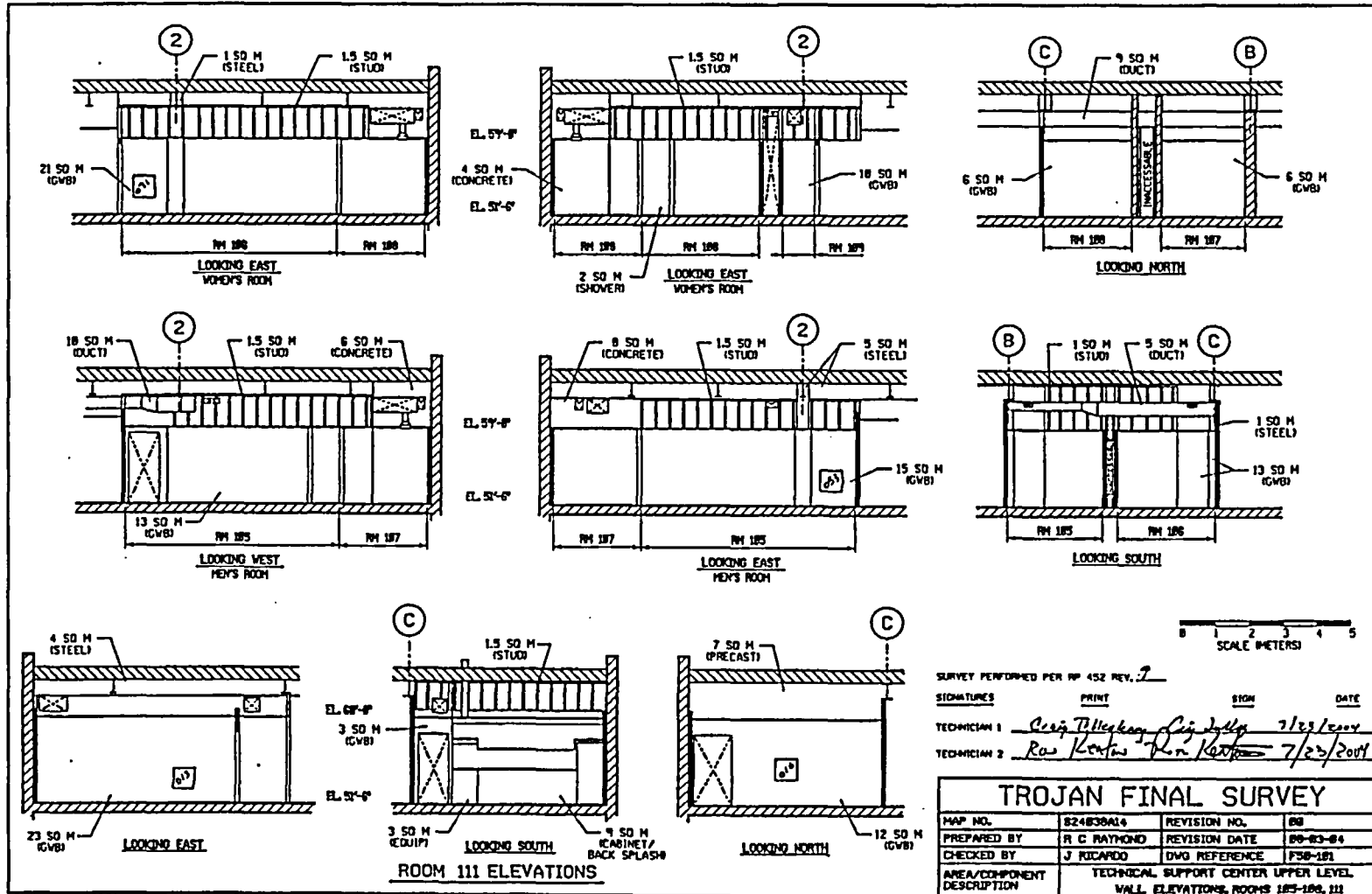


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S24038A
 Survey Unit Name: Technical Support Center Interior

Classification: Class 3
 Size (m²): 2,951

Scan Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 2

SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	<i>Greg Tilley</i>	<i>Greg Tilley</i>	7/23/2004
TECHNICIAN 2	<i>Ron Kartin</i>	<i>Ron Kartin</i>	7/23/2004

TROJAN FINAL SURVEY			
MAP NO.	S24038A14	REVISION NO.	00
PREPARED BY	R C RAYMOND	REVISION DATE	00-03-04
CHECKED BY	J RICARDO	DWG REFERENCE	FSB-101
AREA/COMPONENT DESCRIPTION	TECHNICAL SUPPORT CENTER UPPER LEVEL WALL ELEVATIONS, ROOMS 105-106, 111		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S25045A
 Survey Unit Name: Security Building Interior

Classification: Class 3
 Size (m²): 857

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	43	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 9.380e+002
 Maximum Value : 1.716e+003
 Range : 7.780e+002
 Median : 1.410e+003
 Std. Deviation : 2.286e+002
 Mean : 1.360e+003
 95% UCL : 1.418e+003

Measurement Values

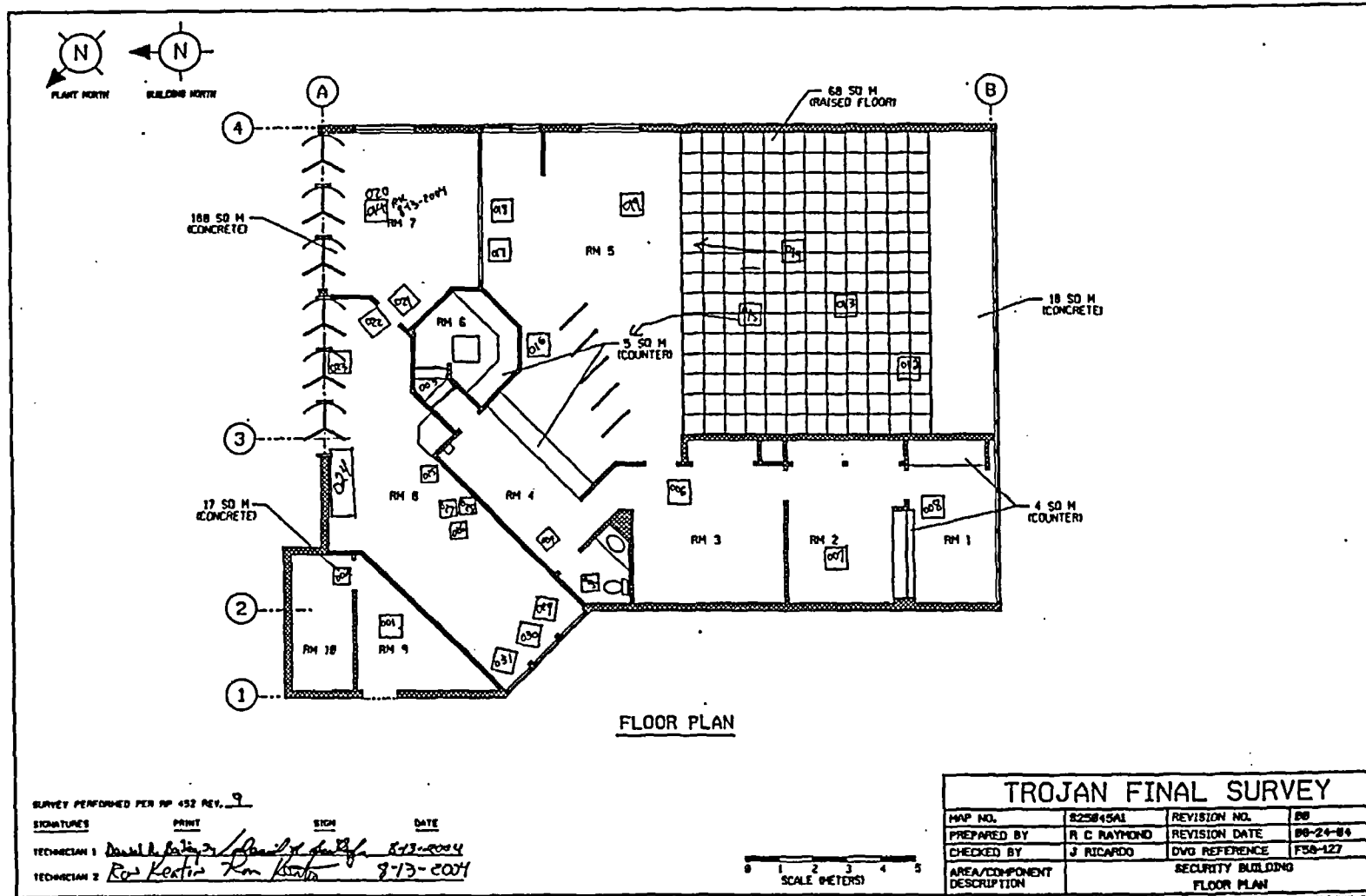
Location	Value	Location	Value	Location	Value
000001	1.670e+003	000018	1.493e+003	000035	9.380e+002
000002	1.716e+003	000019	1.619e+003	000036	1.051e+003
000003	1.311e+003	000020	1.410e+003	000037	1.128e+003
000004	1.354e+003	000021	1.524e+003	000038	1.052e+003
000005	1.384e+003	000022	1.547e+003	000039	1.114e+003
000006	1.563e+003	000023	1.595e+003	000040	1.420e+003
000007	1.361e+003	000024	1.565e+003	000041	1.115e+003
000008	1.299e+003	000025	1.629e+003	000042	1.074e+003
000009	1.083e+003	000026	1.313e+003	000043	1.017e+003
000010	1.066e+003	000027	1.428e+003		
000011	1.055e+003	000028	1.470e+003		
000012	1.433e+003	000029	1.508e+003		
000013	1.434e+003	000030	1.643e+003		
000014	1.397e+003	000031	1.636e+003		
000015	1.655e+003	000032	1.066e+003		
000016	1.560e+003	000033	1.115e+003		
000017	1.571e+003	000034	1.085e+003		

FINAL SURVEY RESULTS SUMMARY

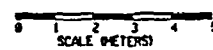
Survey Unit ID Code: S25045A
 Survey Unit Name: Security Building Interior

Classification: Class 3
 Size (m²): 857

Scan Measurement Locations Map



SURVEY PERFORMED PER SP 452 REV. 9
 SIGNATURES PRINT SIGN DATE
 TECHNICIAN 1: *[Signature]* Daniel R. ... 8-13-2004
 TECHNICIAN 2: *[Signature]* Ross Kestis 8-13-2004



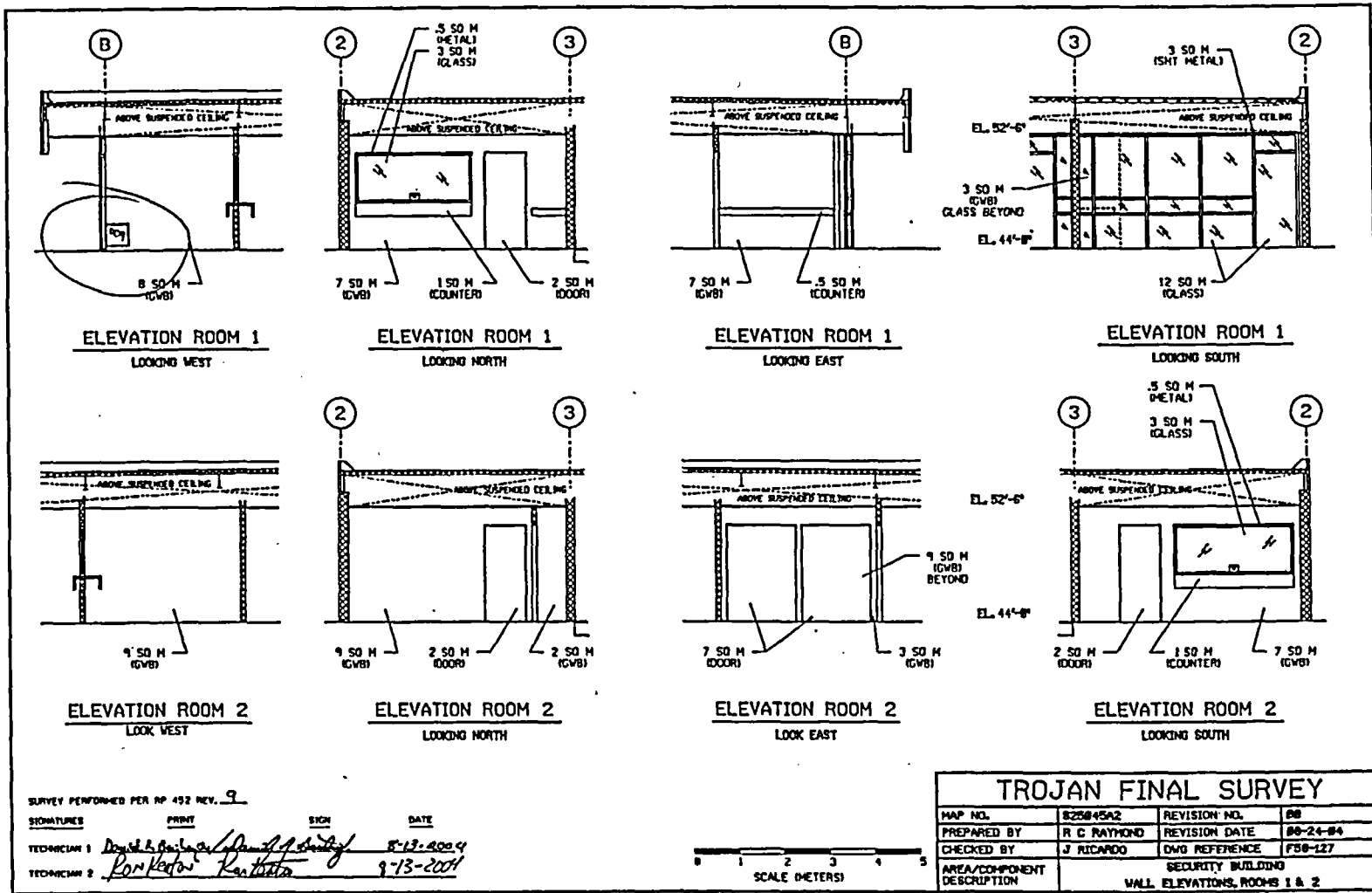
TROJAN FINAL SURVEY			
MAP NO.	S25045A1	REVISION NO.	00
PREPARED BY	R C RAYMOND	REVISION DATE	08-24-04
CHECKED BY	J RICARDO	DWG REFERENCE	FSB-127
AREA/COMPONENT DESCRIPTION	SECURITY BUILDING FLOOR PLAN		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S25045A
 Survey Unit Name: Security Building Interior

Classification: Class 3
 Size (m²): 857

Scan Measurement Locations Map

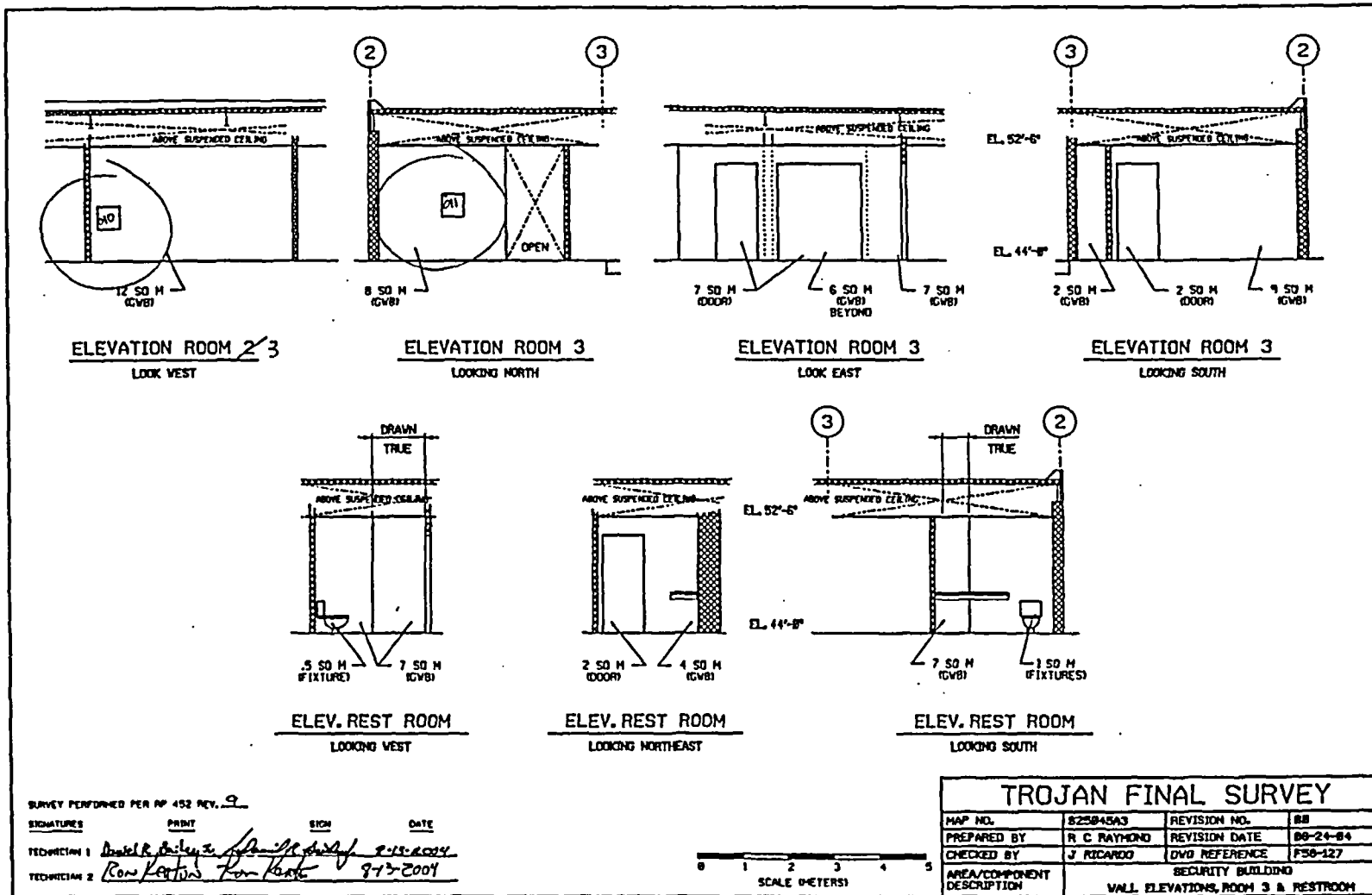


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S25045A
 Survey Unit Name: Security Building Interior

Classification: Class 3
 Size (m²): 857

Scan Measurement Locations Map

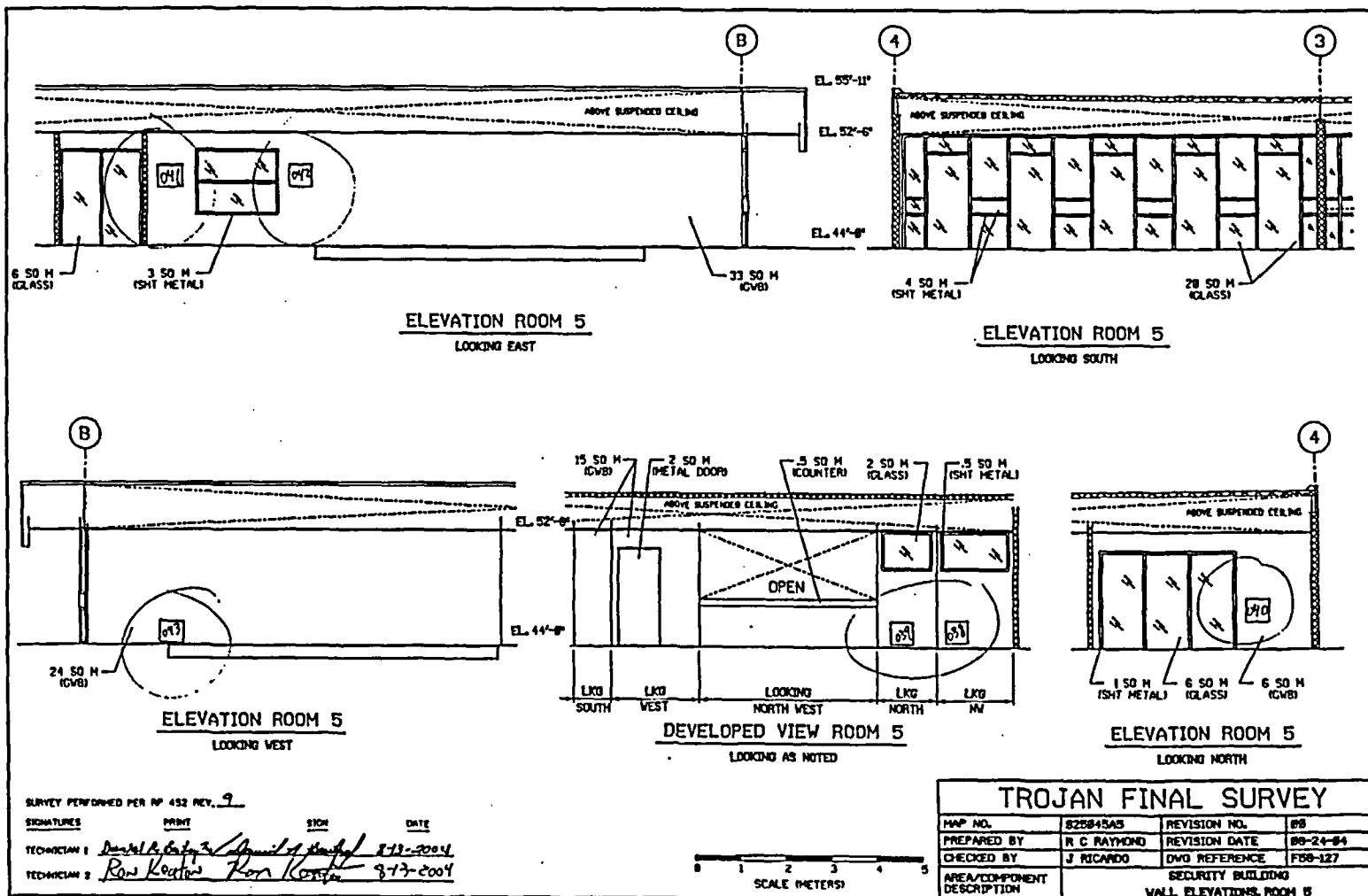


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S25045A
 Survey Unit Name: Security Building Interior

Classification: Class 3
 Size (m²): 857

Scan Measurement Locations Map

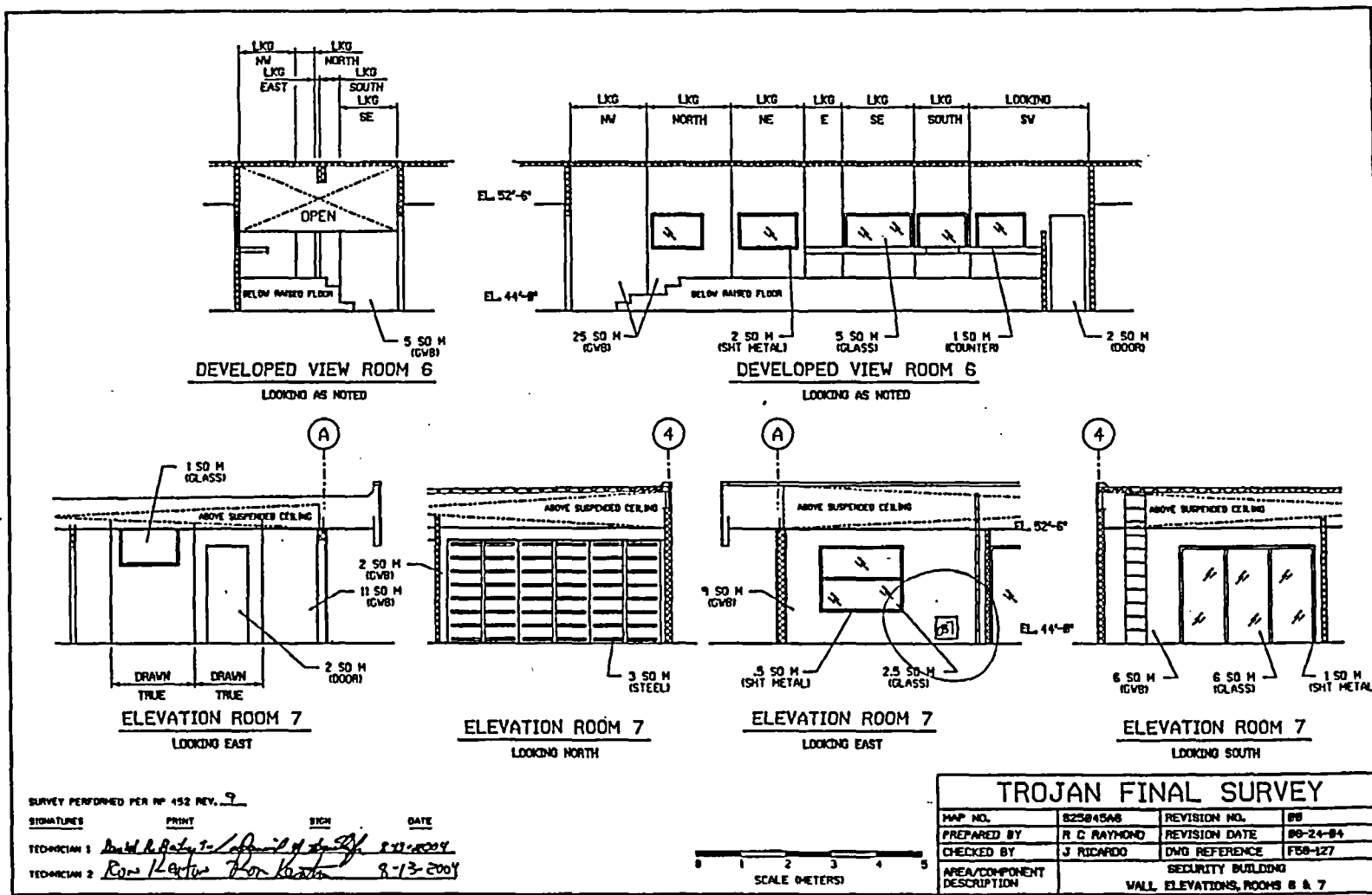


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S25045A
 Survey Unit Name: Security Building Interior

Classification: Class 3
 Size (m²): 857

Scan Measurement Locations Map

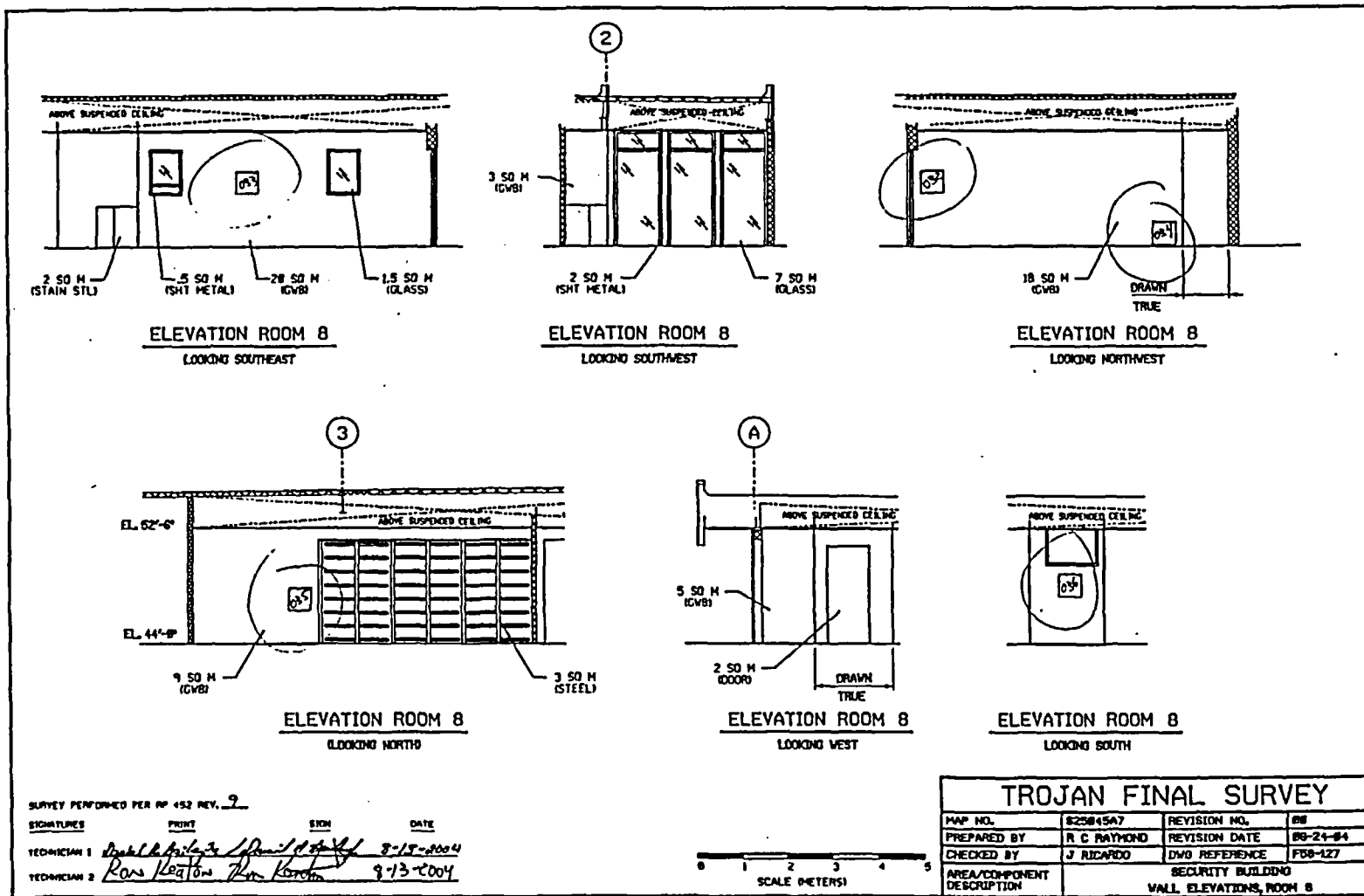


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S25045A
 Survey Unit Name: Security Building Interior

Classification: Class 3
 Size (m²): 857

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S26045A

Classification: Class 3

Survey Unit Name: Trojan Central Building Interior

Size (m²): 7,332

(Less HP/Dosimetry Office and 3rd Floor East Wall)

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	367	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:	
Minimum Value	: 7.775e+002
Maximum Value	: 2.347e+003
Range	: 1.570e+003
Median	: 1.280e+003
Std. Deviation	: 2.929e+002
Mean	: 1.378e+003
95% UCL	: 1.403e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	1.000e+003	000018	1.248e+003	000035	1.335e+003
000002	1.284e+003	000019	1.361e+003	000036	1.382e+003
000003	1.205e+003	000020	1.315e+003	000037	1.304e+003
000004	1.365e+003	000021	1.213e+003	000038	1.279e+003
000005	1.159e+003	000022	1.274e+003	000039	1.266e+003
000006	1.199e+003	000023	1.252e+003	000040	1.409e+003
000007	1.139e+003	000024	1.282e+003	000041	1.300e+003
000008	1.317e+003	000025	1.260e+003	000042	1.386e+003
000009	1.149e+003	000026	1.371e+003	000043	1.248e+003
000010	1.144e+003	000027	1.253e+003	000044	1.335e+003
000011	1.175e+003	000028	1.376e+003	000045	1.140e+003
000012	1.264e+003	000029	1.336e+003	000046	1.261e+003
000013	1.166e+003	000030	1.278e+003	000047	1.277e+003
000014	1.189e+003	000031	1.108e+003	000048	1.197e+003
000015	1.289e+003	000032	1.228e+003	000049	1.044e+003
000016	1.264e+003	000033	1.185e+003	000050	1.187e+003
000017	1.387e+003	000034	1.268e+003	000051	1.294e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S26045A

Classification: Class 3

Survey Unit Name: Trojan Central Building Interior

Size (m²): 7,332

(Less HP/Dosimetry Office and 3rd Floor East Wall)

Scan Measurement Data

Location	Value	Location	Value	Location	Value
000052	1.278e+003	000099	1.267e+003	000146	1.174e+003
000053	1.314e+003	000100	1.331e+003	000147	1.243e+003
000054	1.229e+003	000101	1.287e+003	000148	1.219e+003
000055	1.245e+003	000102	1.361e+003	000149	1.196e+003
000056	1.260e+003	000103	1.082e+003	000150	1.164e+003
000057	1.209e+003	000104	1.127e+003	000151	1.216e+003
000058	1.275e+003	000105	1.196e+003	000152	1.135e+003
000059	1.135e+003	000106	1.172e+003	000153	1.203e+003
000060	1.297e+003	000107	1.251e+003	000154	1.260e+003
000061	1.353e+003	000108	1.168e+003	000155	1.157e+003
000062	1.216e+003	000109	1.180e+003	000156	1.162e+003
000063	1.298e+003	000110	1.268e+003	000157	1.278e+003
000064	1.226e+003	000111	1.208e+003	000158	1.175e+003
000065	1.307e+003	000112	1.272e+003	000159	1.267e+003
000066	1.272e+003	000113	1.115e+003	000160	1.379e+003
000067	1.302e+003	000114	1.131e+003	000161	1.208e+003
000068	1.252e+003	000115	1.337e+003	000162	1.221e+003
000069	1.218e+003	000116	1.256e+003	000163	1.195e+003
000070	1.303e+003	000117	1.187e+003	000164	1.265e+003
000071	1.294e+003	000118	1.337e+003	000165	1.289e+003
000072	1.340e+003	000119	1.448e+003	000166	1.184e+003
000073	1.239e+003	000120	1.232e+003	000167	1.369e+003
000074	1.270e+003	000121	1.287e+003	000168	1.312e+003
000075	1.305e+003	000122	1.355e+003	000169	1.319e+003
000076	1.373e+003	000123	1.187e+003	000170	1.260e+003
000077	1.376e+003	000124	1.235e+003	000171	1.170e+003
000078	1.278e+003	000125	1.113e+003	000172	1.309e+003
000079	1.219e+003	000126	1.232e+003	000173	1.322e+003
000080	1.429e+003	000127	1.245e+003	000174	1.380e+003
000081	1.261e+003	000128	1.370e+003	000175	1.224e+003
000082	1.230e+003	000129	1.189e+003	000176	1.311e+003
000083	1.248e+003	000130	1.117e+003	000177	1.167e+003
000084	1.332e+003	000131	1.169e+003	000178	1.159e+003
000085	1.265e+003	000132	1.209e+003	000179	1.254e+003
000086	1.300e+003	000133	1.187e+003	000180	1.129e+003
000087	1.451e+003	000134	1.238e+003	000181	1.269e+003
000088	1.421e+003	000135	1.074e+003	000182	1.259e+003
000089	1.534e+003	000136	1.367e+003	000183	1.172e+003
000090	1.403e+003	000137	1.240e+003	000184	1.280e+003
000091	1.445e+003	000138	1.213e+003	000185	1.318e+003
000092	1.313e+003	000139	1.132e+003	000186	1.216e+003
000093	1.233e+003	000140	1.194e+003	000187	1.352e+003
000094	1.346e+003	000141	1.193e+003	000188	1.170e+003
000095	1.454e+003	000142	1.082e+003	000189	1.183e+003
000096	1.167e+003	000143	1.240e+003	000190	1.075e+003
000097	1.280e+003	000144	1.280e+003	000191	1.255e+003
000098	1.304e+003	000145	1.234e+003	000192	1.297e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S26045A

Classification: Class 3

Survey Unit Name: Trojan Central Building Interior

Size (m²): 7,332

(Less HP/Dosimetry Office and 3rd Floor East Wall)

Scan Measurement Data

Location	Value	Location	Value	Location	Value
000193	1.150e+003	000240	1.039e+003	000287	1.725e+003
000194	1.192e+003	000241	1.135e+003	000288	1.950e+003
000195	1.237e+003	000242	1.158e+003	000289	1.891e+003
000196	1.267e+003	000243	1.164e+003	000290	1.630e+003
000197	1.182e+003	000244	1.148e+003	000291	1.725e+003
000198	1.291e+003	000245	1.176e+003	000292	1.973e+003
000199	1.247e+003	000246	1.541e+003	000293	1.919e+003
000200	1.254e+003	000247	1.786e+003	000294	1.951e+003
000201	1.124e+003	000248	1.661e+003	000295	1.947e+003
000202	1.068e+003	000249	1.802e+003	000296	2.022e+003
000203	1.236e+003	000250	9.380e+002	000297	2.178e+003
000204	9.013e+002	000251	1.548e+003	000298	2.068e+003
000205	9.157e+002	000252	1.678e+003	000299	1.864e+003
000206	1.342e+003	000253	1.703e+003	000300	2.073e+003
000207	1.212e+003	000254	1.692e+003	000301	1.797e+003
000208	1.389e+003	000255	1.564e+003	000302	1.900e+003
000209	1.342e+003	000256	1.421e+003	000303	1.859e+003
000210	1.305e+003	000257	1.497e+003	000304	1.800e+003
000211	1.233e+003	000258	1.700e+003	000305	1.870e+003
000212	1.214e+003	000259	1.559e+003	000306	1.918e+003
000213	1.184e+003	000260	8.058e+002	000307	1.808e+003
000214	1.318e+003	000261	7.881e+002	000308	2.074e+003
000215	1.296e+003	000262	7.925e+002	000309	2.111e+003
000216	1.422e+003	000263	1.588e+003	000310	2.347e+003
000217	1.388e+003	000264	1.554e+003	000311	1.985e+003
000218	1.245e+003	000265	1.713e+003	000312	2.051e+003
000219	1.247e+003	000266	1.244e+003	000313	2.217e+003
000220	1.230e+003	000267	1.596e+003	000314	2.122e+003
000221	1.127e+003	000268	1.502e+003	000315	2.068e+003
000222	1.009e+003	000269	1.529e+003	000316	2.261e+003
000223	1.186e+003	000270	9.979e+002	000317	2.080e+003
000224	1.229e+003	000271	9.318e+002	000318	2.036e+003
000225	1.196e+003	000272	9.142e+002	000319	1.840e+003
000226	1.236e+003	000273	8.869e+002	000320	1.649e+003
000227	1.162e+003	000274	9.089e+002	000321	1.749e+003
000228	1.082e+003	000275	8.772e+002	000322	1.661e+003
000229	1.063e+003	000276	8.393e+002	000323	1.656e+003
000230	8.438e+002	000277	7.775e+002	000324	1.573e+003
000231	1.103e+003	000278	1.210e+003	000325	1.685e+003
000232	1.068e+003	000279	1.590e+003	000326	1.582e+003
000233	1.077e+003	000280	1.679e+003	000327	1.780e+003
000234	9.175e+002	000281	1.622e+003	000328	1.791e+003
000235	9.948e+002	000282	1.735e+003	000329	1.602e+003
000236	9.615e+002	000283	9.521e+002	000330	1.473e+003
000237	1.001e+003	000284	9.468e+002	000331	1.939e+003
000238	1.315e+003	000285	1.480e+003	000332	1.681e+003
000239	1.122e+003	000286	1.499e+003	000333	1.686e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S26045A

Classification: Class 3

Survey Unit Name: Trojan Central Building Interior

Size (m²): 7,332

(Less HP/Dosimetry Office and 3rd Floor East Wall)

Scan Measurement Data

<u>Location</u>	<u>Value</u>
000334	1.703e+003
000335	1.865e+003
000336	1.830e+003
000337	1.796e+003
000338	1.689e+003
000339	1.765e+003
000340	1.805e+003
000341	1.701e+003
000342	1.724e+003
000343	1.809e+003
000344	1.653e+003
000345	1.580e+003
000346	1.592e+003
000347	1.654e+003
000348	1.708e+003
000349	1.693e+003
000350	1.725e+003
000351	1.695e+003
000352	1.831e+003
000353	1.983e+003
000354	1.803e+003
000355	1.763e+003
000356	1.614e+003
000357	1.880e+003
000358	1.746e+003
000359	1.707e+003
000360	1.760e+003
000361	1.737e+003
000362	1.719e+003
000363	1.780e+003
000364	1.839e+003
000365	1.695e+003
000366	1.604e+003
000367	1.854e+003

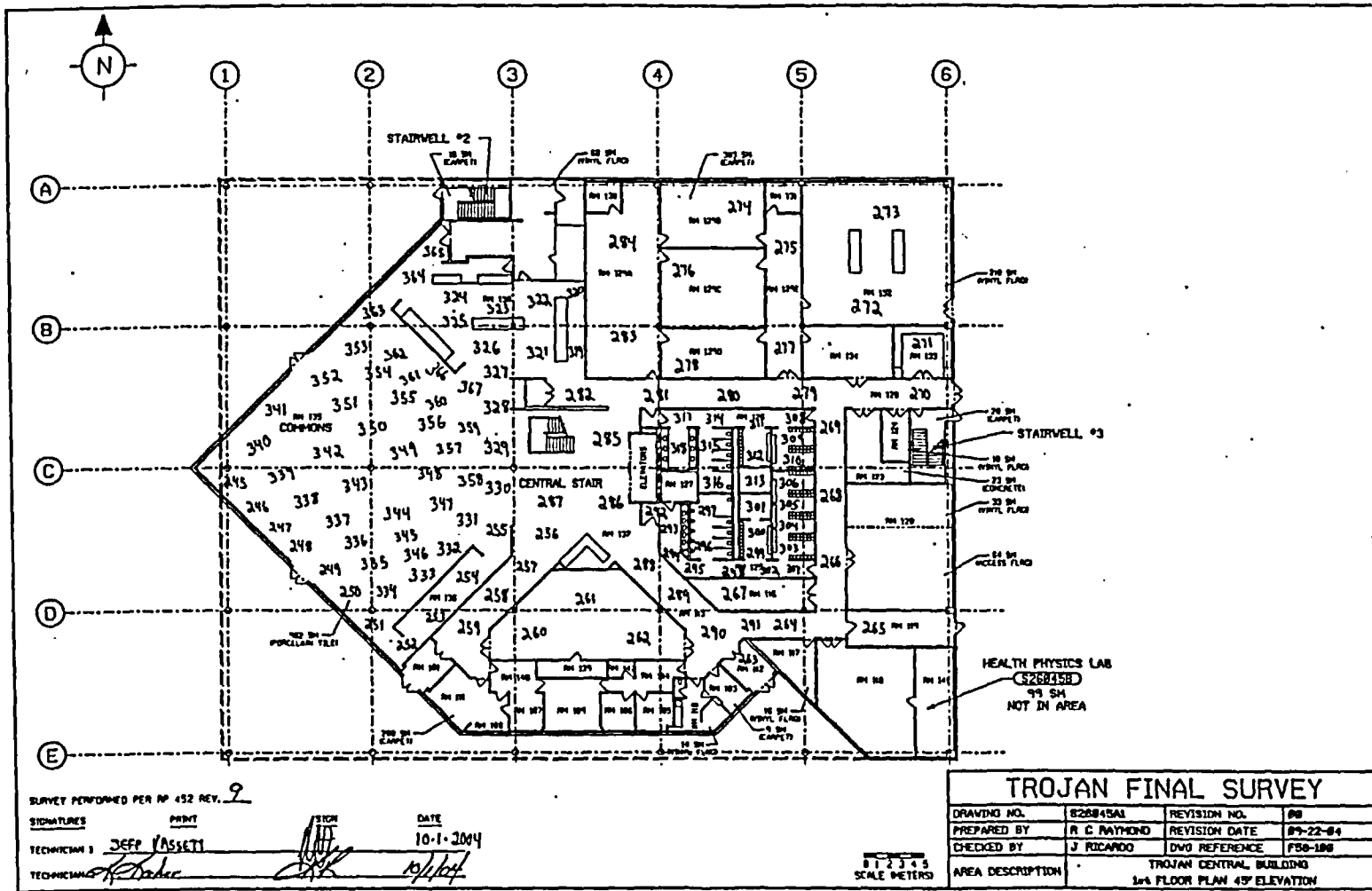
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S26045A

Survey Unit Name: Trojan Central Building Interior (Less HP/Dosimetry Office and 3rd Floor East Wall)

Classification: Class 3
Size (m²): 7,332

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

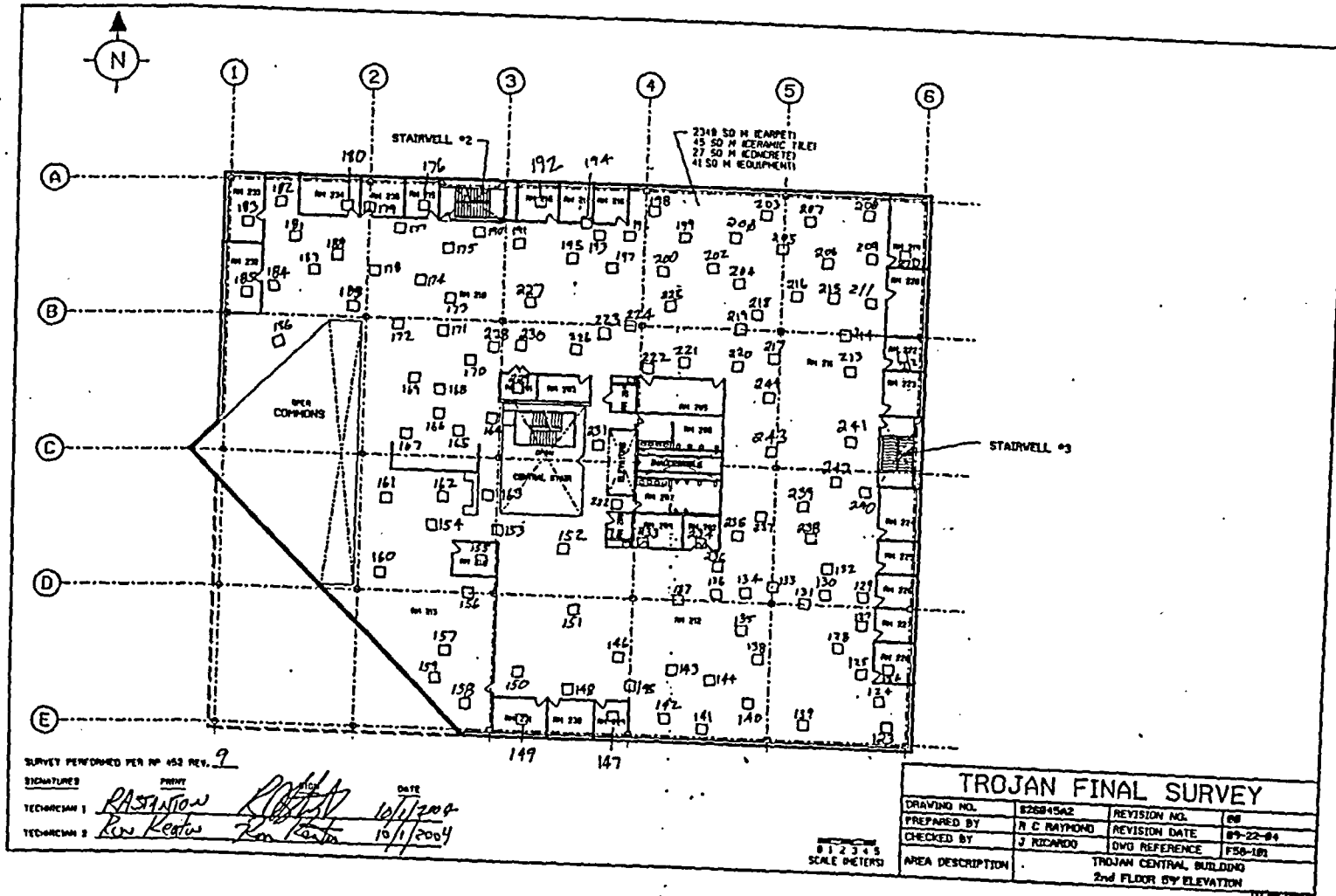
Survey Unit ID Code: S26045A

Classification: Class 3

Survey Unit Name: Trojan Central Building Interior (Less HP/Dosimetry Office and 3rd Floor East Wall)

Size (m²): 7,332

Scan Measurement Locations Map



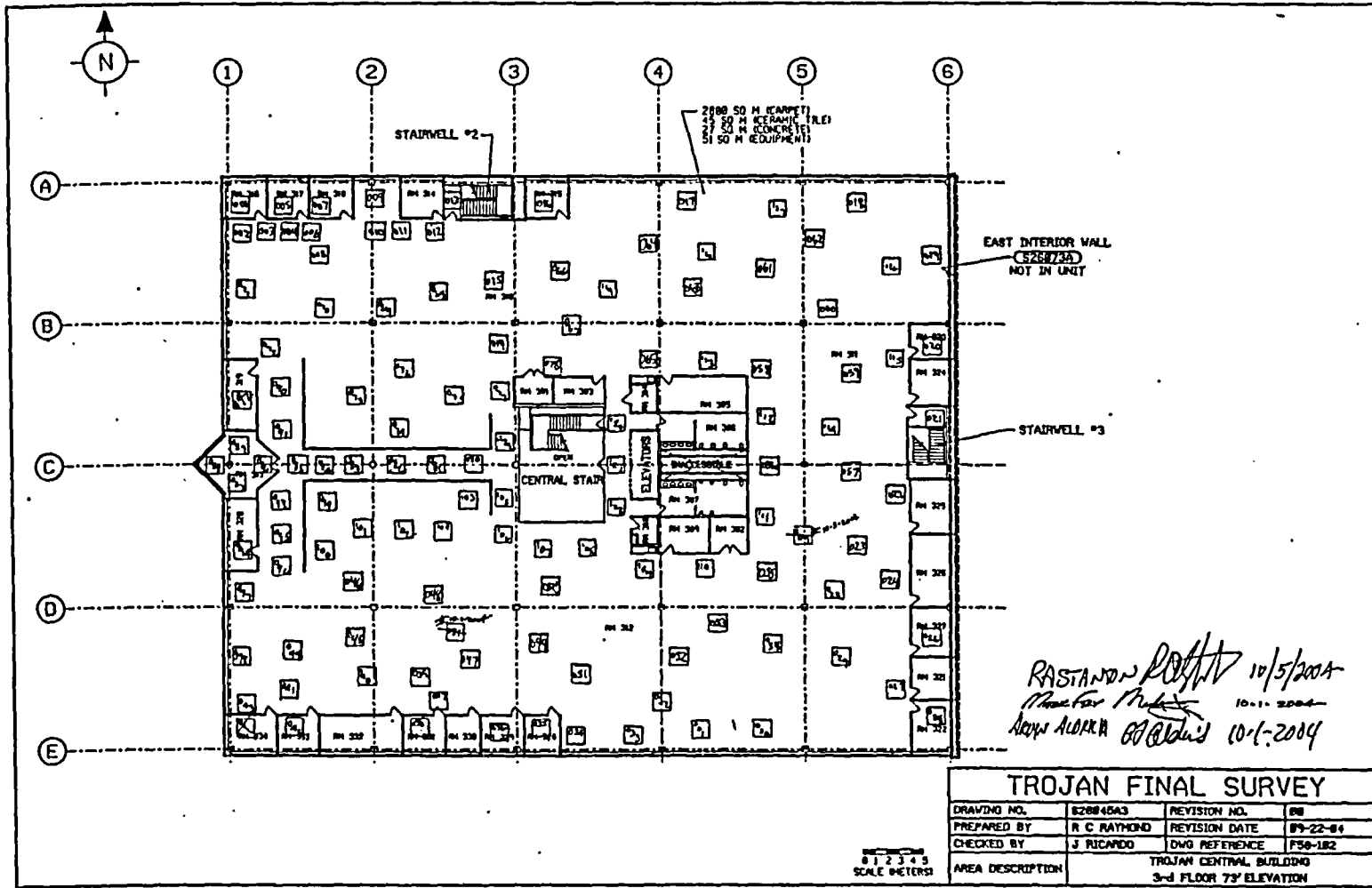
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S26045A

Survey Unit Name: Trojan Central Building Interior (Less HP/Dosimetry Office and 3rd Floor East Wall)

Classification: Class 3
Size (m²): 7,332

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S26045B

Survey Unit Name: Trojan Central Building

Health Physics/Dosimetry Office

Classification: Class 2

Size (m²): 266

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	40	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 8.974e+002
 Maximum Value : 1.403e+003
 Range : 5.056e+002
 Median : 1.180e+003
 Std. Deviation : 1.099e+002
 Mean : 1.180e+003
 95% UCL : 1.210e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	1.091e+003	000018	1.172e+003	000035	1.318e+003
000002	1.112e+003	000019	1.052e+003	000036	1.345e+003
000003	1.108e+003	000020	8.974e+002	000037	1.114e+003
000004	1.193e+003	000021	1.046e+003	000038	1.187e+003
000005	1.252e+003	000022	1.002e+003	000039	1.167e+003
000006	1.139e+003	000023	1.193e+003	000040	1.099e+003
000007	1.096e+003	000024	1.157e+003		
000008	1.225e+003	000025	1.038e+003		
000009	1.089e+003	000026	1.056e+003		
000010	1.151e+003	000027	1.161e+003		
000011	1.099e+003	000028	1.271e+003		
000012	1.272e+003	000029	1.282e+003		
000013	1.265e+003	000030	1.265e+003		
000014	1.213e+003	000031	1.403e+003		
000015	1.191e+003	000032	1.332e+003		
000016	1.377e+003	000033	1.250e+003		
000017	1.210e+003	000034	1.327e+003		

FINAL SURVEY RESULTS SUMMARY

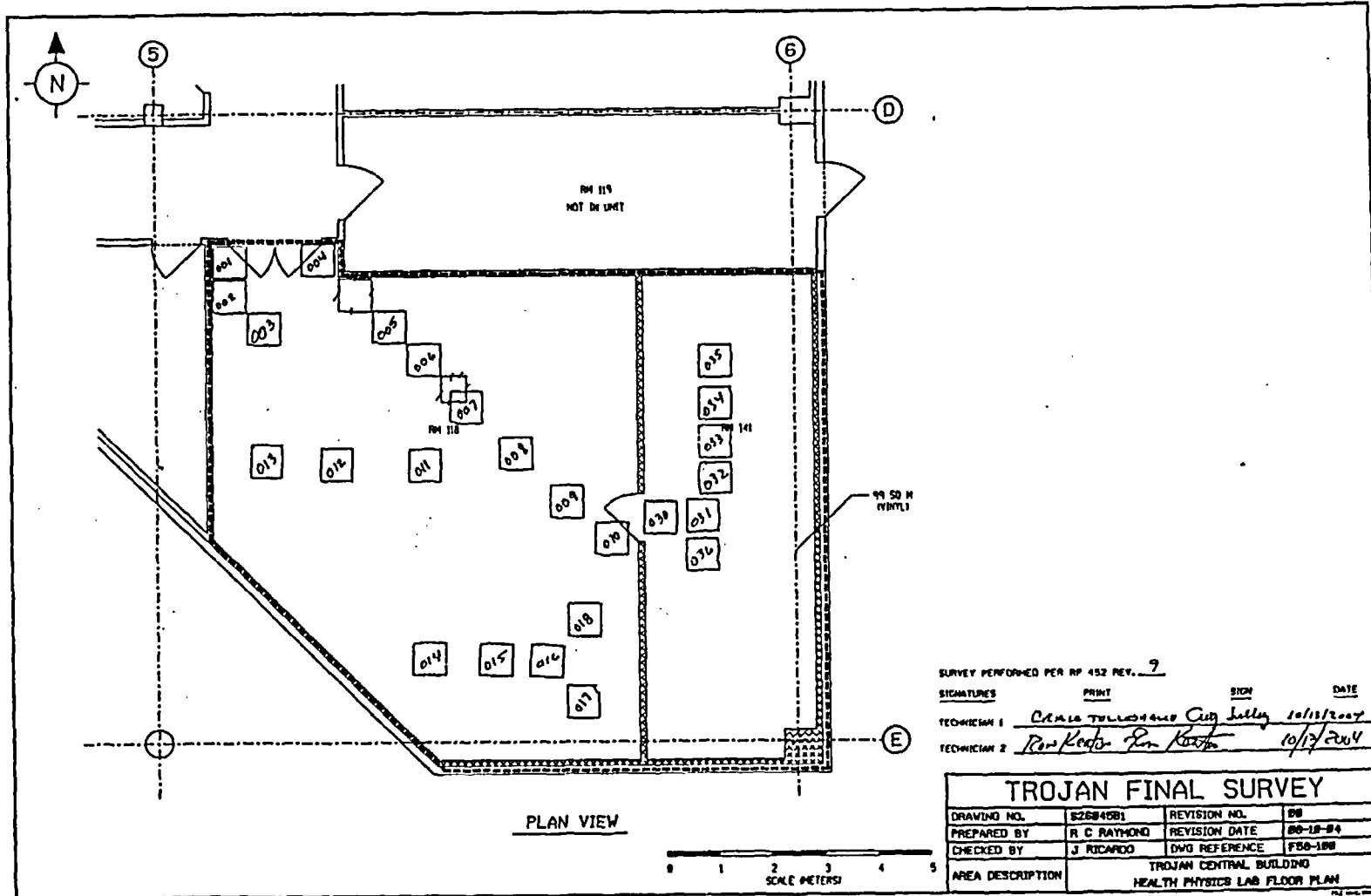
Survey Unit ID Code: S26045B

Survey Unit Name: Trojan Central Building Health Physics/Dosimetry Office

Classification: Class 2

Size (m²): 266

Scan Measurement Locations Map

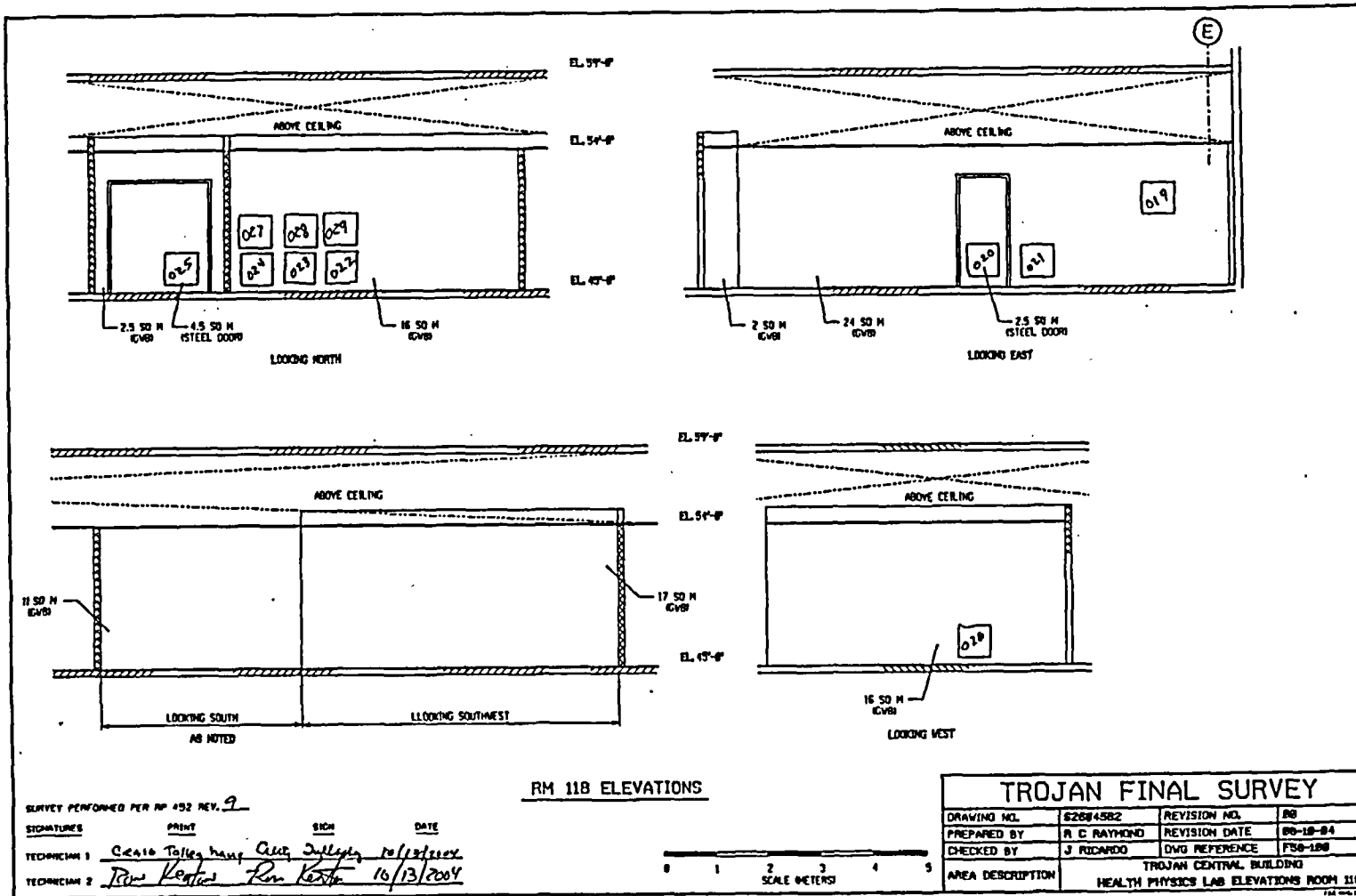


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S26045B
 Survey Unit Name: Trojan Central Building Health Physics/Dosimetry Office

Classification: Class 2
 Size (m²): 266

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

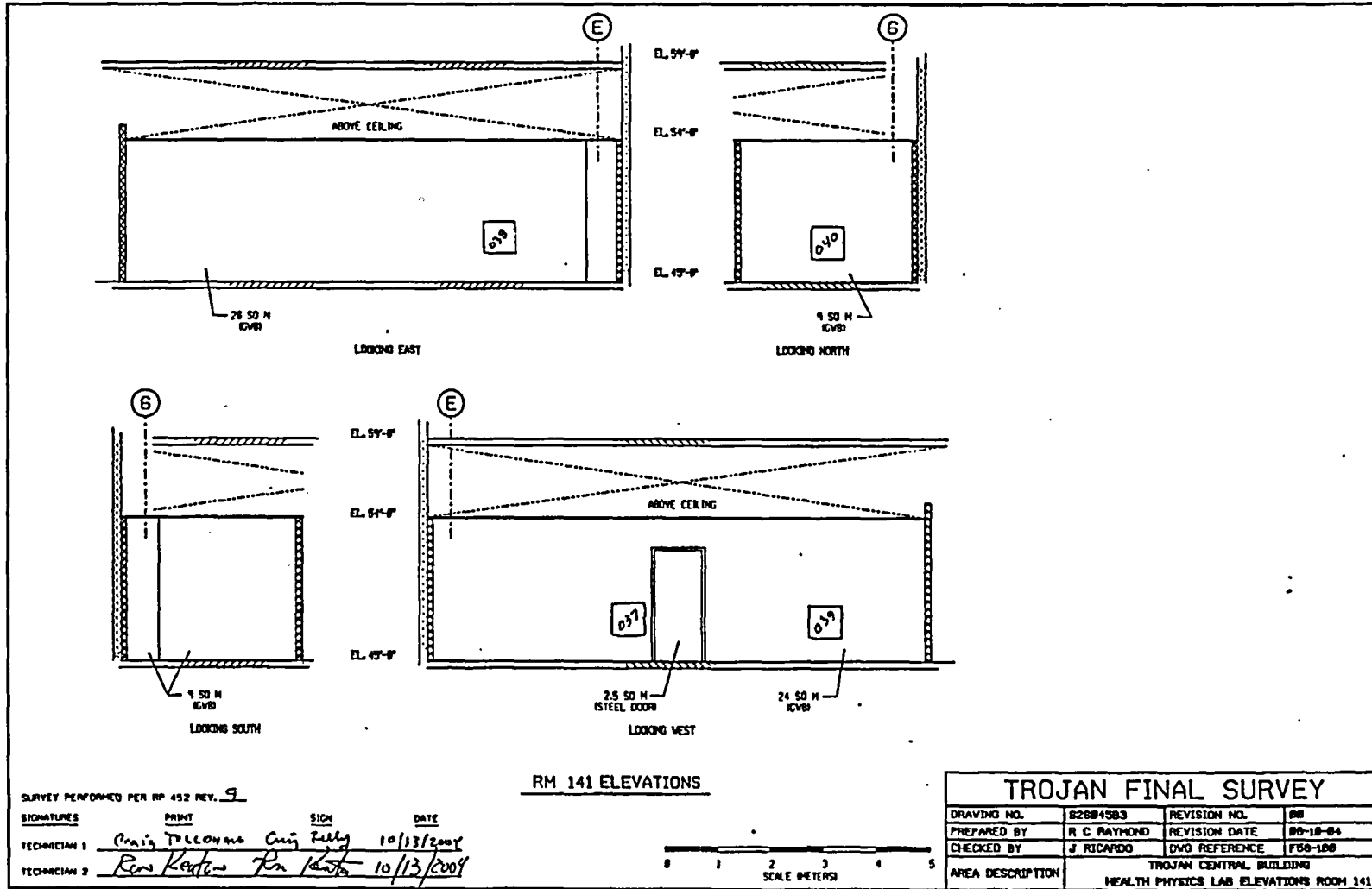
Survey Unit ID Code: S26045B

Survey Unit Name: Trojan Central Building Health Physics/Dosimetry Office

Classification: Class 2

Size (m²): 266

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S26073A

Survey Unit Name: Trjojan Central Building
3rd Floor East Interior Wall

Classification: Class 3
Size (m²): 134

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	9	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 8.091e+002
 Maximum Value : 1.114e+003
 Range : 3.049e+002
 Median : 9.227e+002
 Std. Deviation : 9.887e+001
 Mean : 9.345e+002
 95% UCL : 9.949e+002

Measurement Values

Location	Value
000001	8.091e+002
000002	8.476e+002
000003	8.980e+002
000004	1.031e+003
000005	8.503e+002
000006	9.227e+002
000007	1.004e+003
000008	1.114e+003
000009	9.337e+002

FINAL SURVEY RESULTS SUMMARY

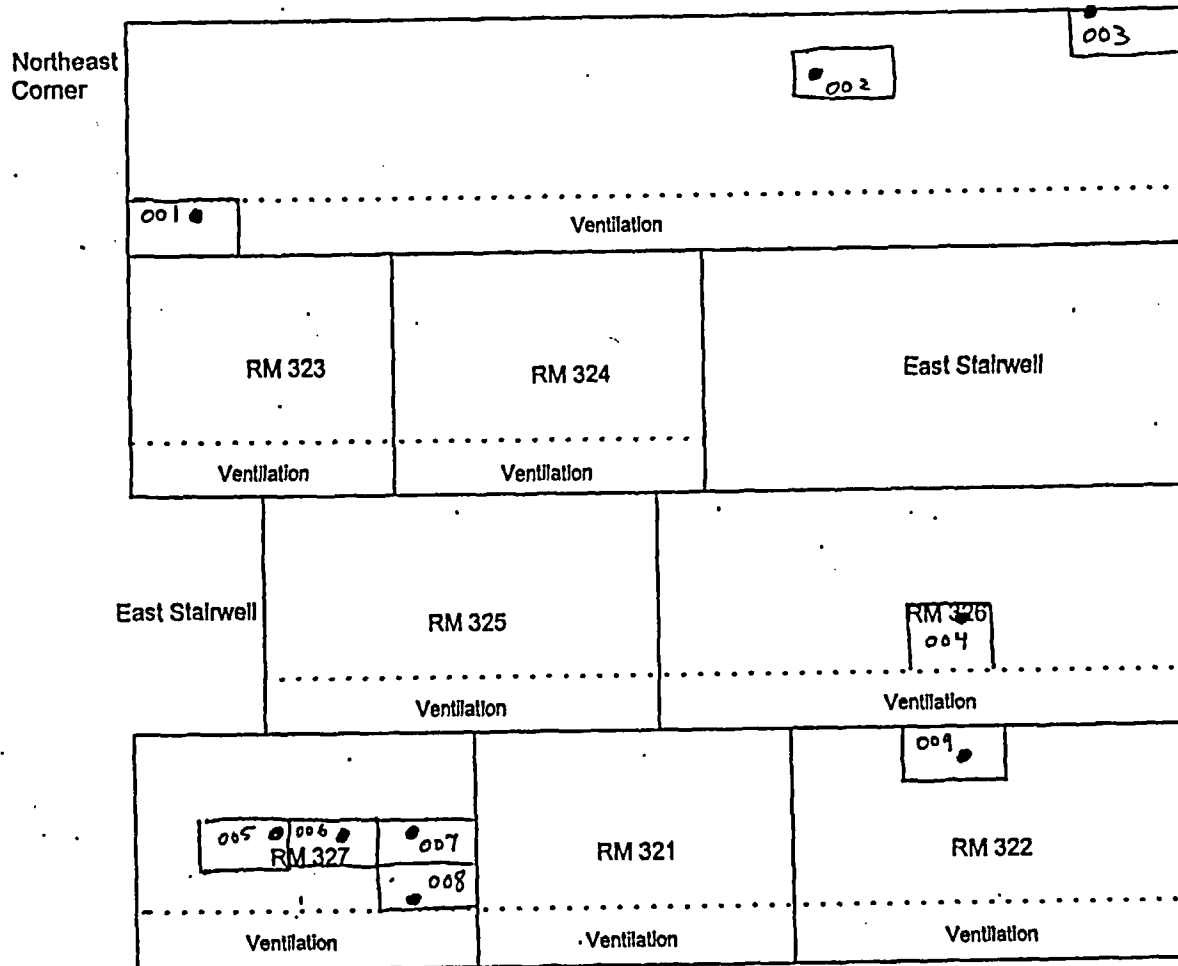
Survey Unit ID Code: S26073A

Survey Unit Name: Trojan Central Building 3rd Floor East Interior Wall

Classification: Class 3

Size (m²): 134

Scan Measurement Locations Map



Steve Hopkins
Survey Technician ...
8/6/2002
Date

Ron Lester
Survey Technician ...
8-6-2002
Date

0.0 ↗

Southeast Corner

073Aascn.ca

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S27045A
 Survey Unit Name: Materials Warehouse Interior
 (Excluding I&E Shop)

Classification: Class 3
 Size (m²): 3,946

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	80	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 9.035e+002
 Maximum Value : 1.690e+003
 Range : 7.865e+002
 Median : 1.377e+003
 Std. Deviation : 1.792e+002
 Mean : 1.369e+003
 95% UCL : 1.402e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	9.035e+002	000018	1.459e+003	000035	1.690e+003
000002	9.273e+002	000019	1.470e+003	000036	1.402e+003
000003	9.603e+002	000020	1.295e+003	000037	1.243e+003
000004	1.631e+003	000021	1.320e+003	000038	1.404e+003
000005	1.488e+003	000022	1.149e+003	000039	1.432e+003
000006	1.442e+003	000023	1.034e+003	000040	1.291e+003
000007	1.547e+003	000024	1.328e+003	000041	1.485e+003
000008	1.421e+003	000025	1.374e+003	000042	1.217e+003
000009	1.294e+003	000026	1.343e+003	000043	1.446e+003
000010	1.545e+003	000027	1.508e+003	000044	1.342e+003
000011	1.308e+003	000028	1.378e+003	000045	1.336e+003
000012	1.368e+003	000029	1.517e+003	000046	1.381e+003
000013	1.342e+003	000030	1.376e+003	000047	1.508e+003
000014	1.324e+003	000031	1.651e+003	000048	1.249e+003
000015	1.298e+003	000032	1.513e+003	000049	1.516e+003
000016	1.338e+003	000033	1.314e+003	000050	1.573e+003
000017	1.333e+003	000034	1.330e+003	000051	1.343e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S27045A
Survey Unit Name: Materials Warehouse Interior
(Excluding I&E Shop)

Classification: Class 3
Size (m²): 3,946

Scan Measurement Data

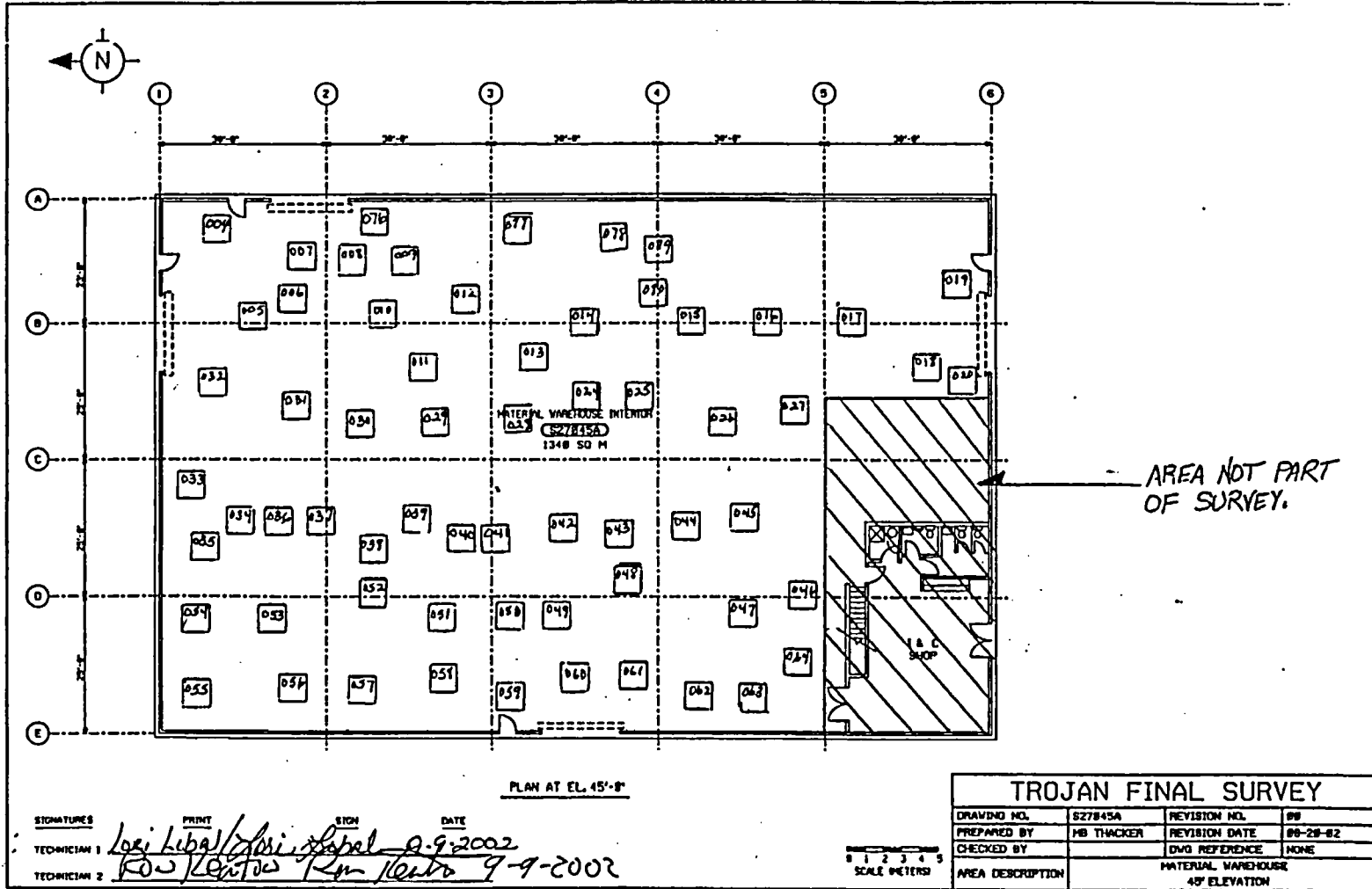
<u>Location</u>	<u>Value</u>
000052	1.344e+003
000053	1.374e+003
000054	1.545e+003
000055	1.540e+003
000056	1.473e+003
000057	1.643e+003
000058	1.479e+003
000059	1.511e+003
000060	1.603e+003
000061	1.492e+003
000062	1.463e+003
000063	1.544e+003
000064	1.472e+003
000065	1.231e+003
000066	1.011e+003
000067	1.061e+003
000068	1.441e+003
000069	1.357e+003
000070	1.001e+003
000071	1.113e+003
000072	1.508e+003
000073	1.236e+003
000074	9.521e+002
000075	1.035e+003
000076	1.322e+003
000077	1.406e+003
000078	1.472e+003
000079	1.615e+003
000080	1.549e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S27045A
 Survey Unit Name: Materials Warehouse Interior (Excluding I&E Shop)

Classification: Class 3
 Size (m²): 3,946

Scan Measurement Locations Map

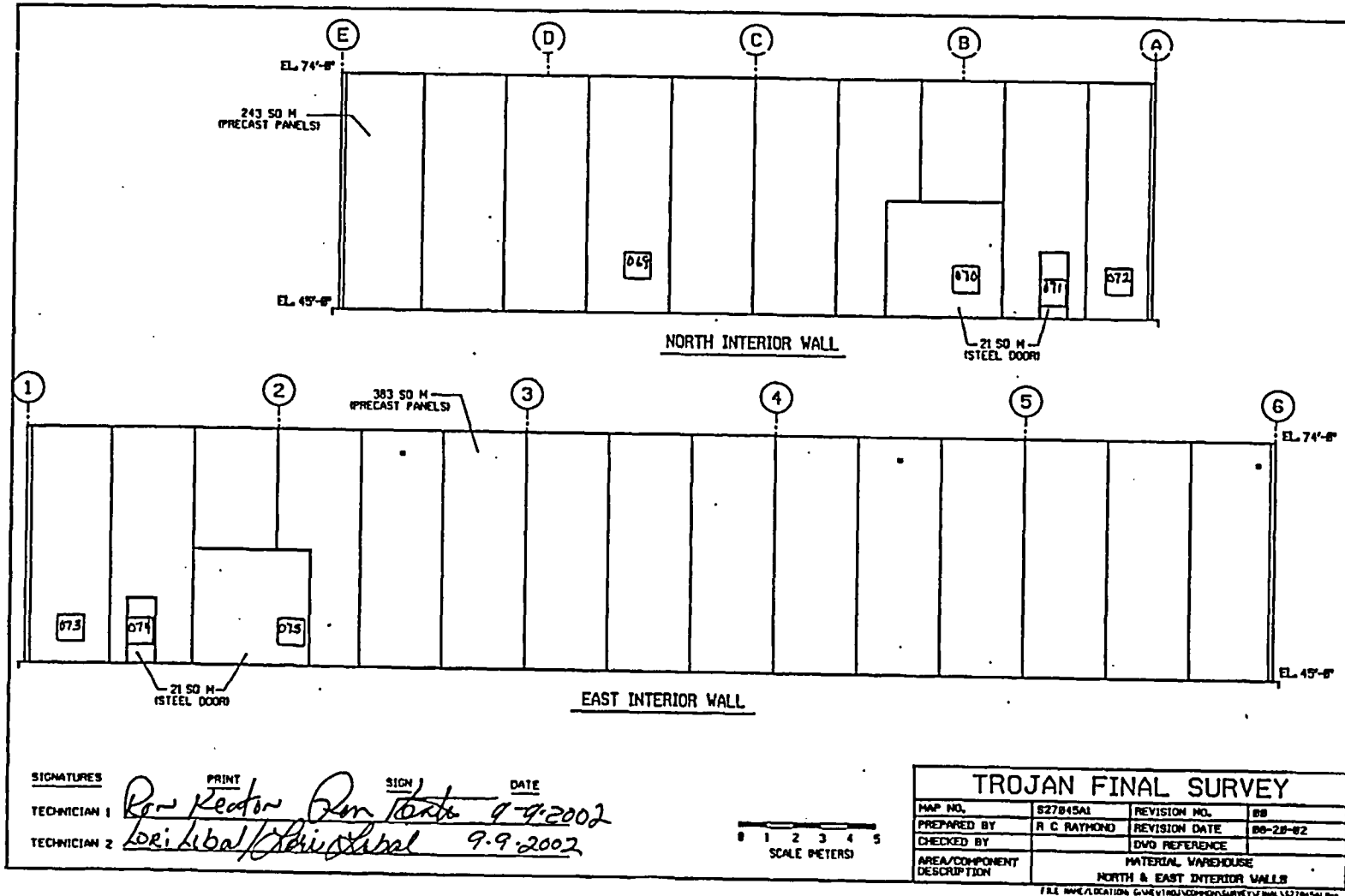


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S27045A
 Survey Unit Name: Materials Warehouse Interior (Excluding I&E Shop)

Classification: Class 3
 Size (m²): 3,946

Scan Measurement Locations Map

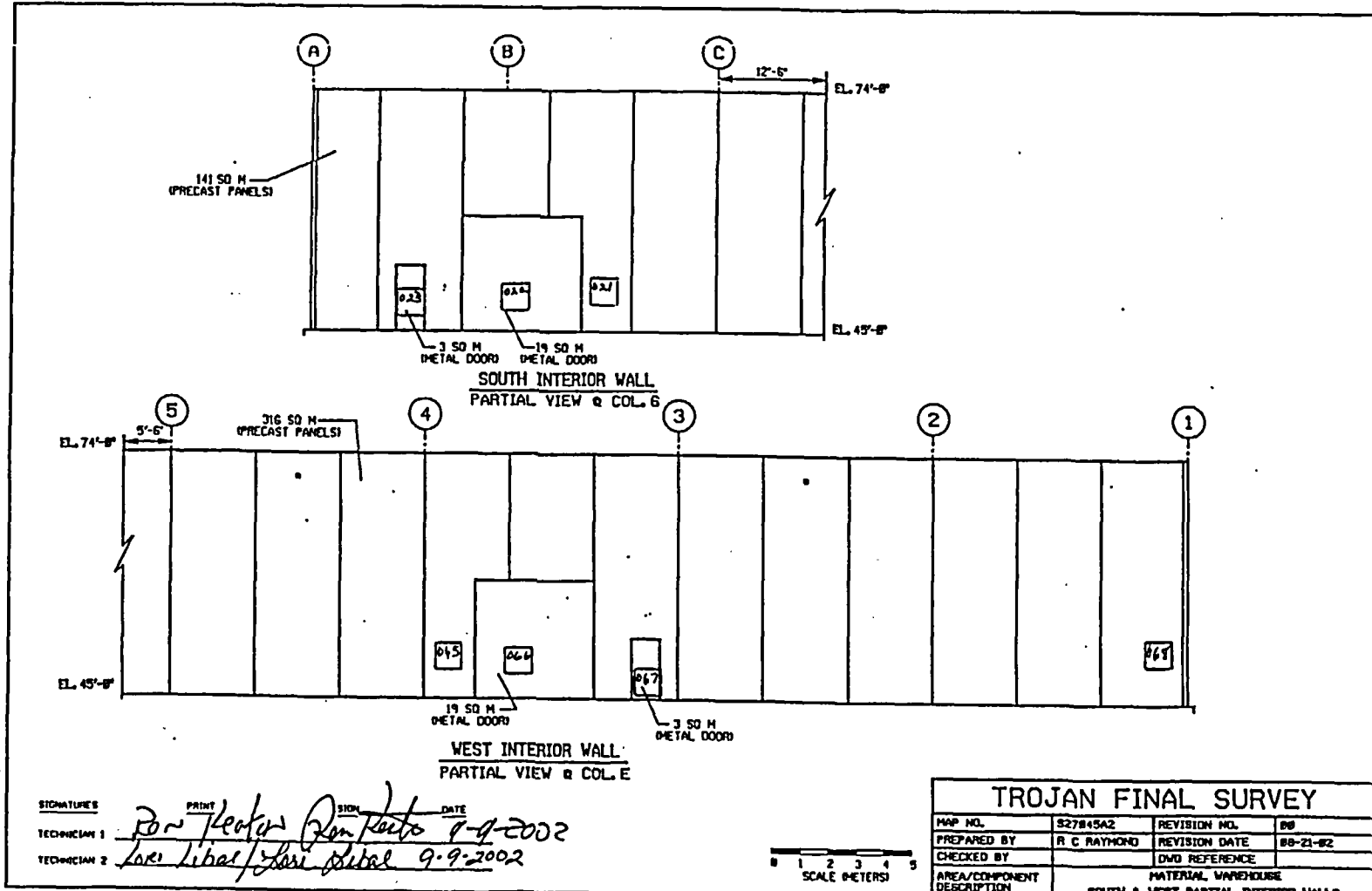


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S27045A
 Survey Unit Name: Materials Warehouse Interior (Excluding I&E Shop)

Classification: Class 3
 Size (m²): 3,946

Scan Measurement Locations Map



SIGNATURES
 TECHNICIAN 1: *Ron Keefe* PRINT *Ron Keefe* SIGN DATE *8-9-2002*
 TECHNICIAN 2: *Lori Libal* PRINT *Lori Libal* SIGN DATE *9-9-2002*

TROJAN FINAL SURVEY			
MAP NO.	S27045A2	REVISION NO.	00
PREPARED BY	R. C. RAYMOND	REVISION DATE	08-21-02
CHECKED BY		DWG REFERENCE	
AREA/COMPONENT DESCRIPTION	MATERIAL WAREHOUSE SOUTH & WEST PARTIAL INTERIOR WALLS		

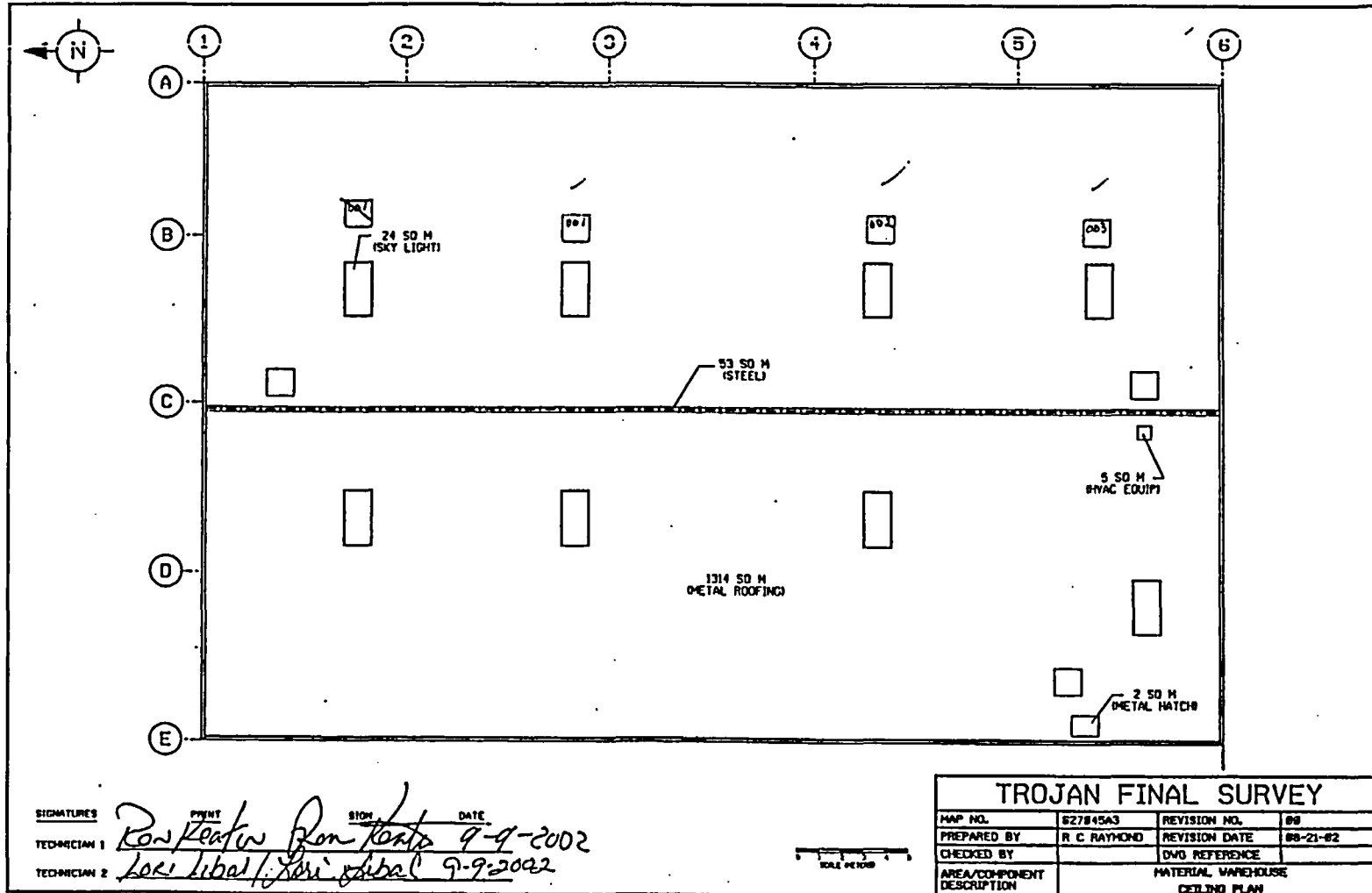
FILE NAME/LOCATION: G:\ENTR01\COMMON\SURVEY\FINAL\S27045A2.R

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S27045A
 Survey Unit Name: Materials Warehouse Interior (Excluding I&E Shop)

Classification: Class 3
 Size (m²): 3,946

Scan Measurement Locations Map



SIGNATURES
 TECHNICIAN 1 *Ron Keaton* *Ron Keaton* 9-9-2002
 TECHNICIAN 2 *Lori Libal* *Lori Libal* 9-9-2002

TROJAN FINAL SURVEY			
MAP NO.	S27045A3	REVISION NO.	09
PREPARED BY	R C RAYMOND	REVISION DATE	08-21-02
CHECKED BY		DWG REFERENCE	
AREA/COMPONENT DESCRIPTION	MATERIAL WAREHOUSE CEILING PLAN		

FILE NAME LOCATION: G:\REV\TROJAN\COMPN\SURVEY\DWG\S27045A3.DWG

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S27045B
 Survey Unit Name: Materials Warehouse I&E Shop

Classification: Class 3
 Size (m²): 508

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	52	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 9.274e+002
 Maximum Value : 1.590e+003
 Range : 6.626e+002
 Median : 1.157e+003
 Std. Deviation : 1.240e+002
 Mean : 1.162e+003
 95% UCL : 1.191e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	1.283e+003	000018	1.113e+003	000035	1.231e+003
000002	1.108e+003	000019	1.022e+003	000036	1.081e+003
000003	1.200e+003	000020	1.103e+003	000037	1.009e+003
000004	1.144e+003	000021	1.142e+003	000038	1.066e+003
000005	1.162e+003	000022	1.311e+003	000039	1.256e+003
000006	1.211e+003	000023	9.512e+002	000040	1.254e+003
000007	1.230e+003	000024	1.031e+003	000041	1.325e+003
000008	1.110e+003	000025	1.170e+003	000042	1.214e+003
000009	1.120e+003	000026	1.120e+003	000043	1.213e+003
000010	1.188e+003	000027	1.115e+003	000044	1.214e+003
000011	1.308e+003	000028	9.274e+002	000045	1.198e+003
000012	1.193e+003	000029	1.010e+003	000046	1.176e+003
000013	1.151e+003	000030	1.014e+003	000047	1.244e+003
000014	1.149e+003	000031	1.114e+003	000048	1.285e+003
000015	1.259e+003	000032	9.821e+002	000049	1.590e+003
000016	9.653e+002	000033	1.133e+003	000050	1.454e+003
000017	1.037e+003	000034	1.052e+003	000051	1.225e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S27045B
Survey Unit Name: Materials Warehouse I&E Shop

Classification: Class 3
Size (m²): 508

Scan Measurement Data

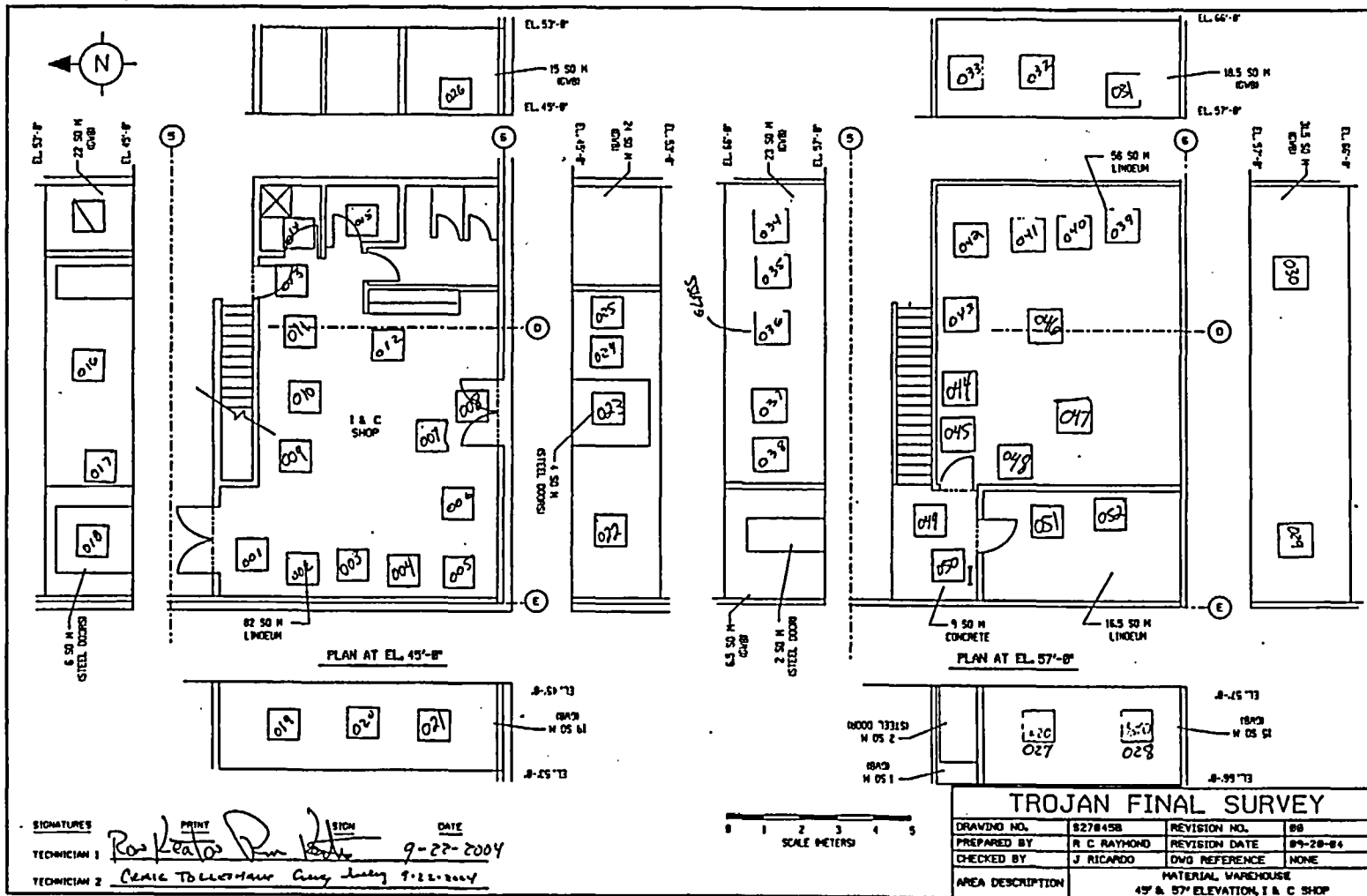
<u>Location</u>	<u>Value</u>
000052	1.277e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S27045B
 Survey Unit Name: Materials Warehouse I&E Shop

Classification: Class 3
 Size (m²): 508

Scan Measurement Locations Map



SIGNATURES
 TECHNICIAN 1 *Ricardo* PRINT *Ricardo* SIGN *Ricardo* DATE *9-27-2004*
 TECHNICIAN 2 *Cesar Tolentino* PRINT *Cesar Tolentino* SIGN *Cesar Tolentino* DATE *9-22-2004*

TROJAN FINAL SURVEY			
DRAWING NO.	S27045B	REVISION NO.	00
PREPARED BY	R C RAYMOND	REVISION DATE	09-20-04
CHECKED BY	J RICARDO	DWG REFERENCE	NONE
AREA DESCRIPTION	MATERIAL WAREHOUSE 45' & 57' ELEVATION, I & C SHOP		

FILE NAME: LOCATION: QUANTITY: TROJAN CONCRETE SURVEY FINAL S27045B.BB

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S38045A

Classification: Class 3

Survey Unit Name: Discharge and Dilution Structure Interior

Size (m²): 172

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	18	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 8.809e+002
 Maximum Value : 1.486e+003
 Range : 6.051e+002
 Median : 1.306e+003
 Std. Deviation : 2.144e+002
 Mean : 1.237e+003
 95% UCL : 1.325e+003

Measurement Values

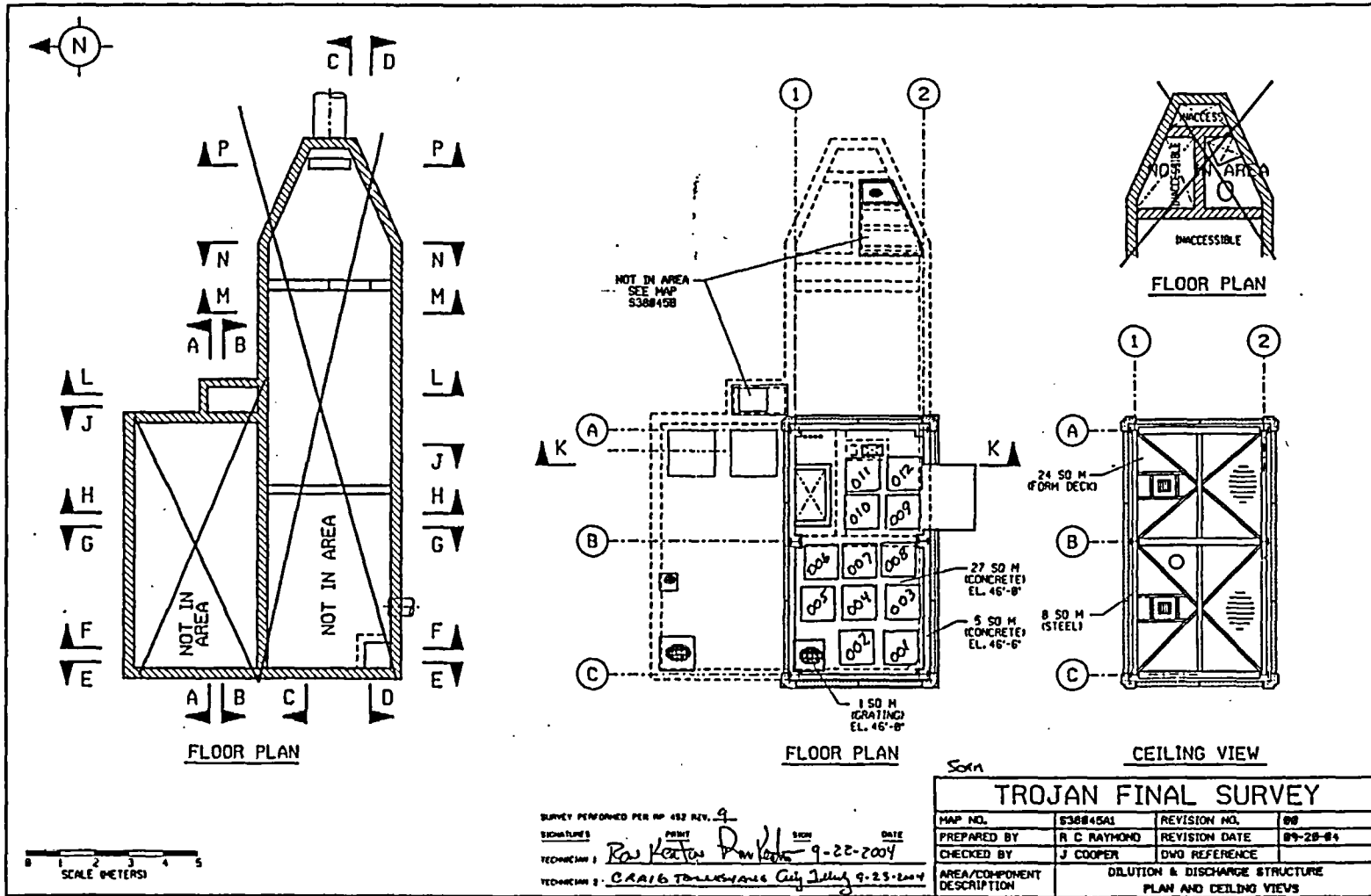
Location	Value	Location	Value
000001	1.325e+003	000018	9.638e+002
000002	1.472e+003		
000003	1.486e+003		
000004	1.384e+003		
000005	1.411e+003		
000006	1.268e+003		
000007	1.414e+003		
000008	1.413e+003		
000009	1.394e+003		
000010	1.257e+003		
000011	1.286e+003		
000012	1.404e+003		
000013	1.081e+003		
000014	8.809e+002		
000015	9.648e+002		
000016	9.503e+002		
000017	9.146e+002		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S38045A
 Survey Unit Name: Discharge and Dilution Structure Interior

Classification: Class 3
 Size (m²): 172

Scan Measurement Locations Map

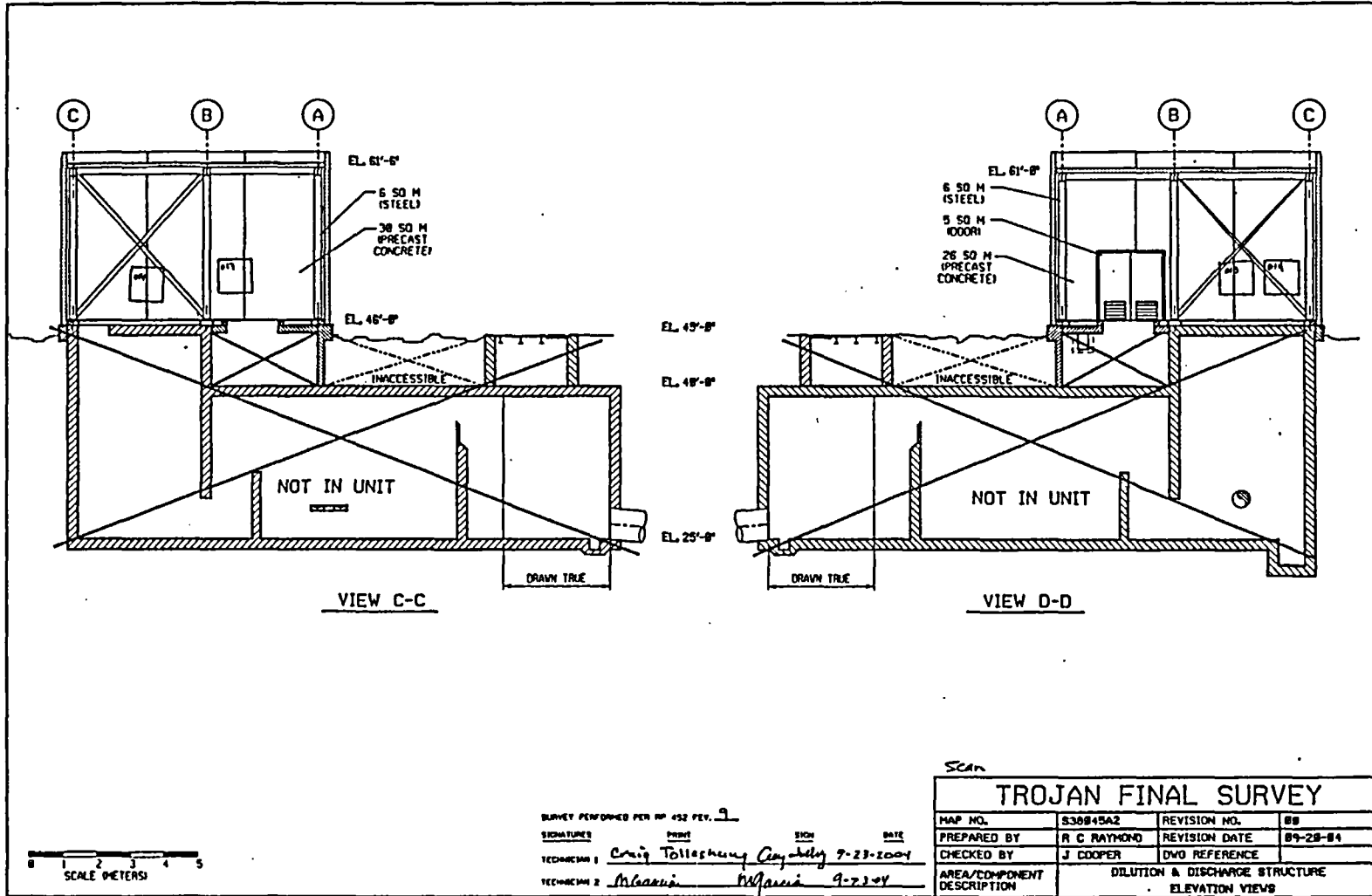


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S38045A
 Survey Unit Name: Discharge and Dilution Structure Interior

Classification: Class 3
 Size (m²): 172

Scan Measurement Locations Map

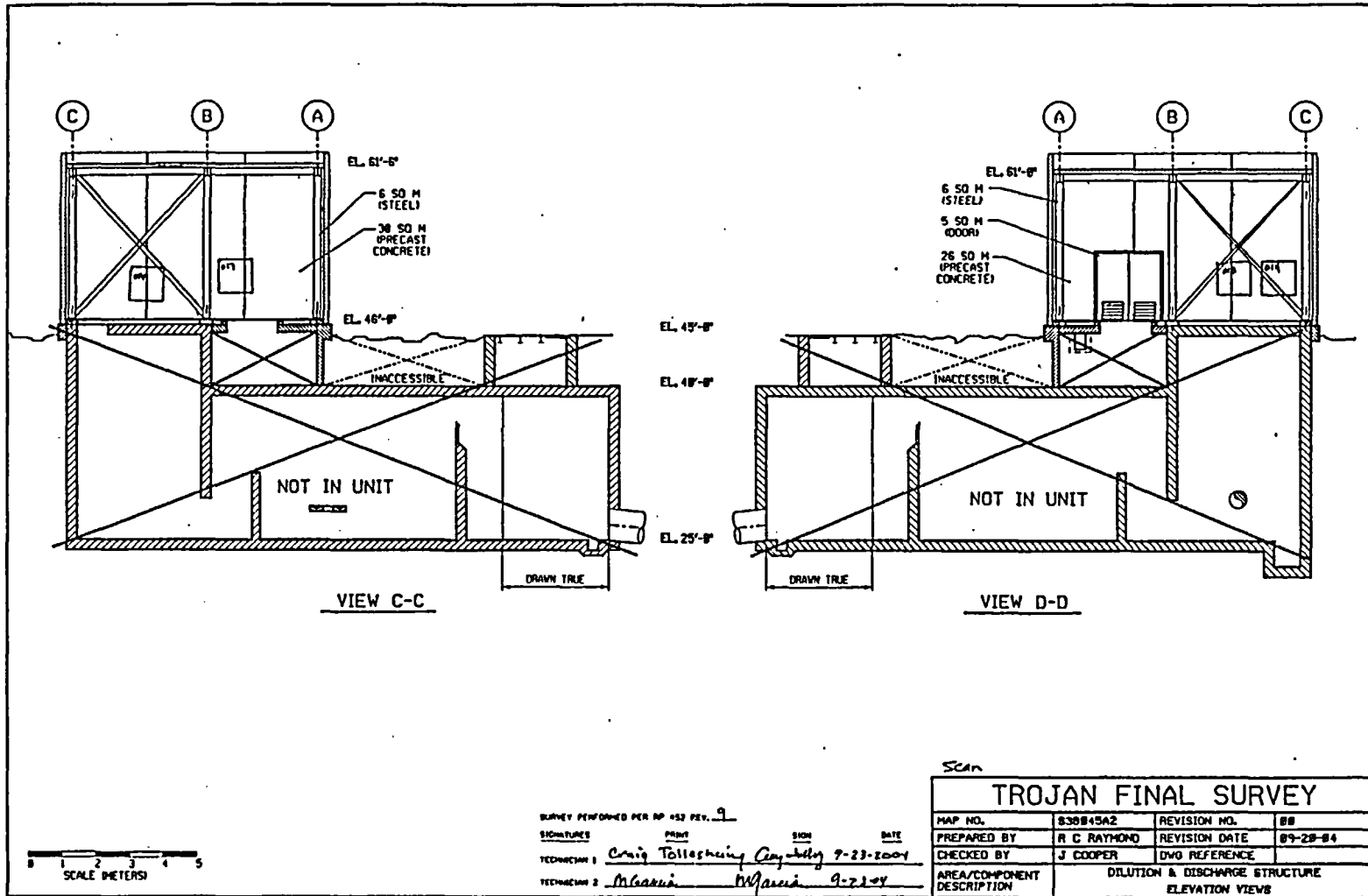


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S38045A
 Survey Unit Name: Discharge and Dilution Structure Interior

Classification: Class 3
 Size (m²): 172

Scan Measurement Locations Map

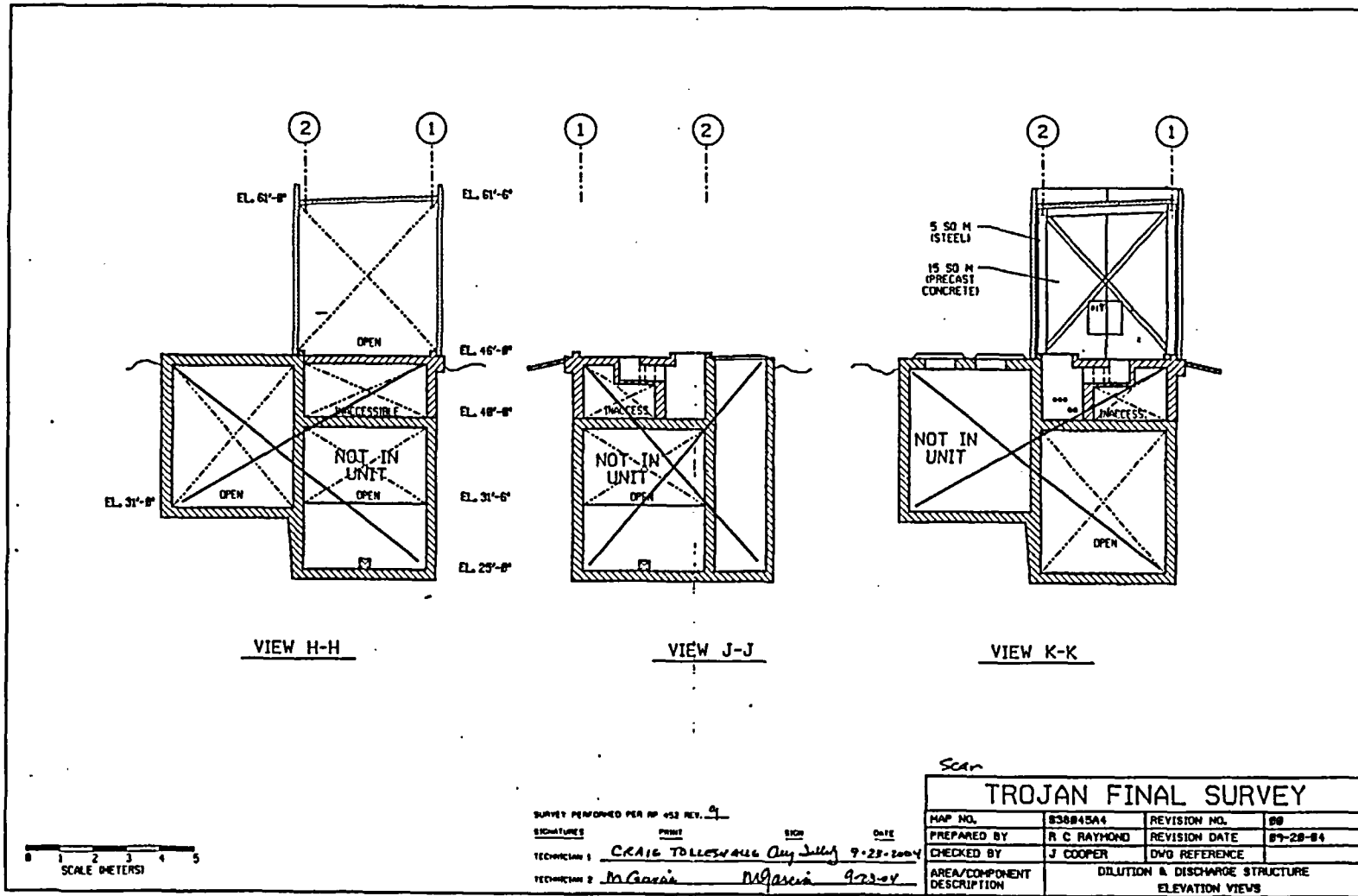


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S38045A
 Survey Unit Name: Discharge and Dilution Structure Interior

Classification: Class 3
 Size (m²): 172

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S44045A
 Survey Unit Name: Gas Bottle Storage Building Interior
 Walls and Ceiling

Classification: Class 3
 Size (m²): 1,196

Scan Measurement Data

Measurement Type Code	# OF Meas.	Measurement Unit	DCGL	SGN	WRS
8	24	DPM/100 CM ²	2.100e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 8.487e+002
 Maximum Value : 1.913e+003
 Range : 1.064e+003
 Median : 1.676e+003
 Std. Deviation : 2.760e+002
 Mean : 1.594e+003
 95% UCL : 1.690e+003

Measurement Values

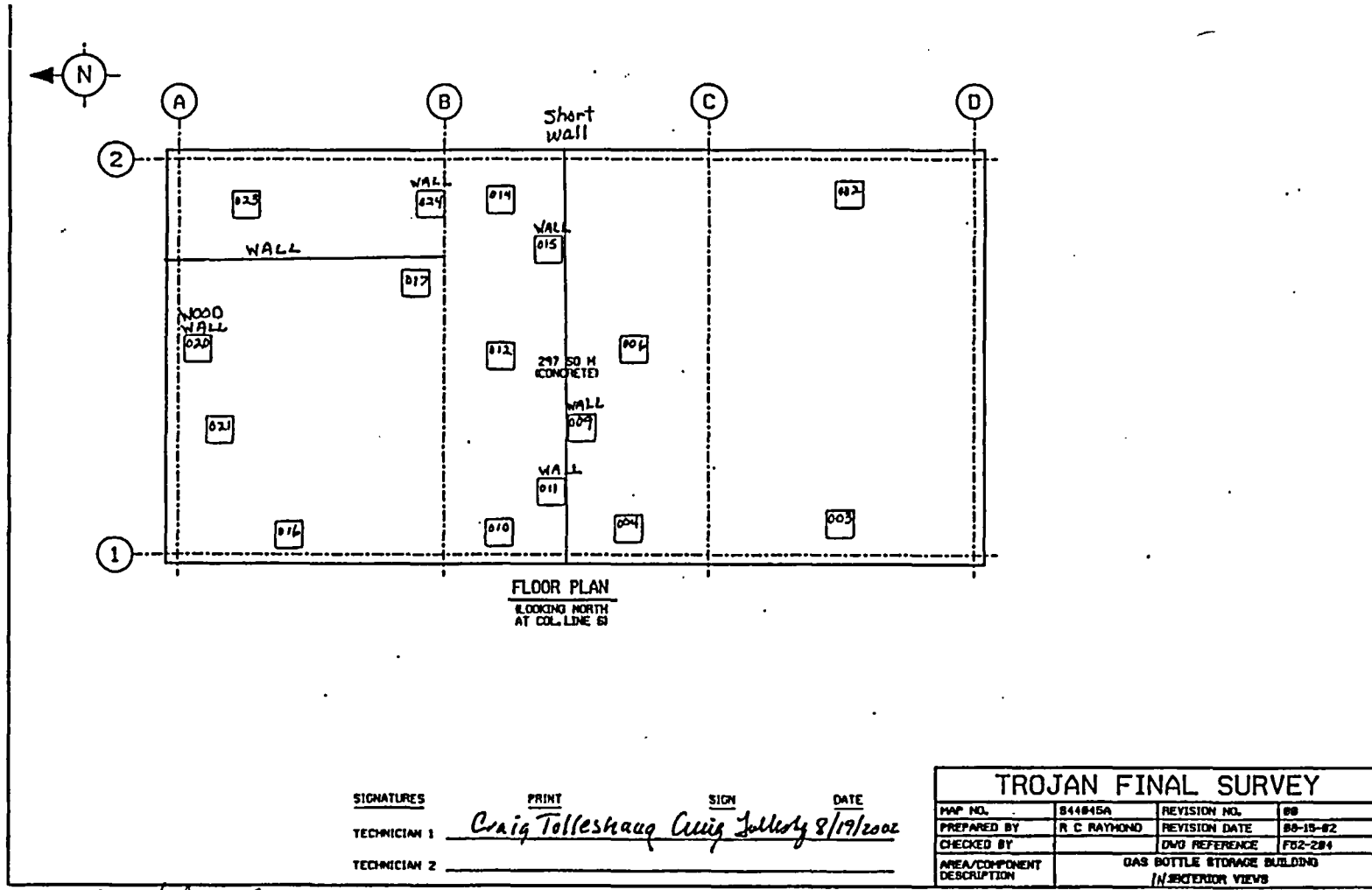
Location	Value	Location	Value
000001	1.721e+003	000018	1.203e+003
000002	1.913e+003	000019	1.634e+003
000003	1.770e+003	000020	8.487e+002
000004	1.726e+003	000021	1.753e+003
000005	1.737e+003	000022	9.628e+002
000006	1.789e+003	000023	1.640e+003
000007	1.589e+003	000024	1.096e+003
000008	1.688e+003		
000009	1.582e+003		
000010	1.670e+003		
000011	1.812e+003		
000012	1.808e+003		
000013	1.595e+003		
000014	1.682e+003		
000015	1.741e+003		
000016	1.624e+003		
000017	1.664e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S44045A
 Survey Unit Name: Gas Bottle Storage Building Interior Walls and Ceiling

Classification: Class 3
 Size (m²): 1,196

Scan Measurement Locations Map



SIGNATURES PRINT SIGN DATE
 TECHNICIAN 1 Craig Tolleshaug Craig Tolleshaug 8/19/2002
 TECHNICIAN 2 _____

Low Libal / Amir Libal 8-18-2002

TROJAN FINAL SURVEY			
MAP NO.	S44045A	REVISION NO.	00
PREPARED BY	R. C. RAYMOND	REVISION DATE	08-18-02
CHECKED BY		DWG REFERENCE	FDZ-284
AREA/COMPONENT DESCRIPTION	GAS BOTTLE STORAGE BUILDING INTERIOR VIEWS		

FILE NAME LOCATION: G:\REVIEWS\CONFORM\SURVEY\DWG\S44045A-DWG

FINAL SURVEY RESULTS SUMMARY

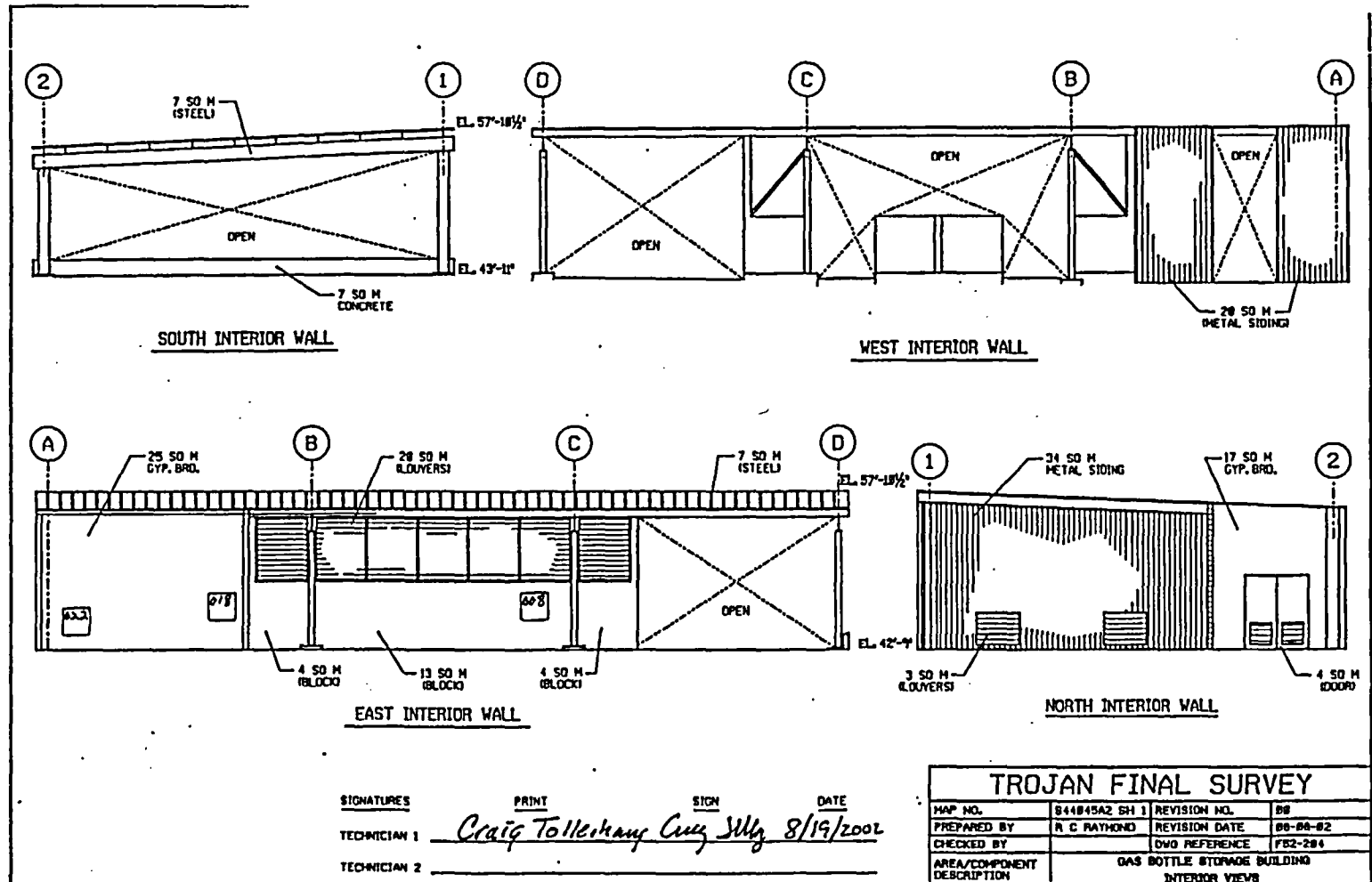
Survey Unit ID Code: S44045A

Survey Unit Name: Gas Bottle Storage Building Interior Walls and Ceiling

Classification: Class 3

Size (m²): 1,196

Scan Measurement Locations Map



SIGNATURES PRINT SIGN DATE
 TECHNICIAN 1 *Craig Tollerhany* *Craig Sully* 8/19/2002
 TECHNICIAN 2

Lori Libal/Avi Libal 8-18-2002

TROJAN FINAL SURVEY			
MAP NO.	S44045A2 SH 1	REVISION NO.	00
PREPARED BY	R C RAYMOND	REVISION DATE	08-08-02
CHECKED BY		DWG REFERENCE	FB2-204
AREA/COMPONENT DESCRIPTION	GAS BOTTLE STORAGE BUILDING INTERIOR VIEWS		

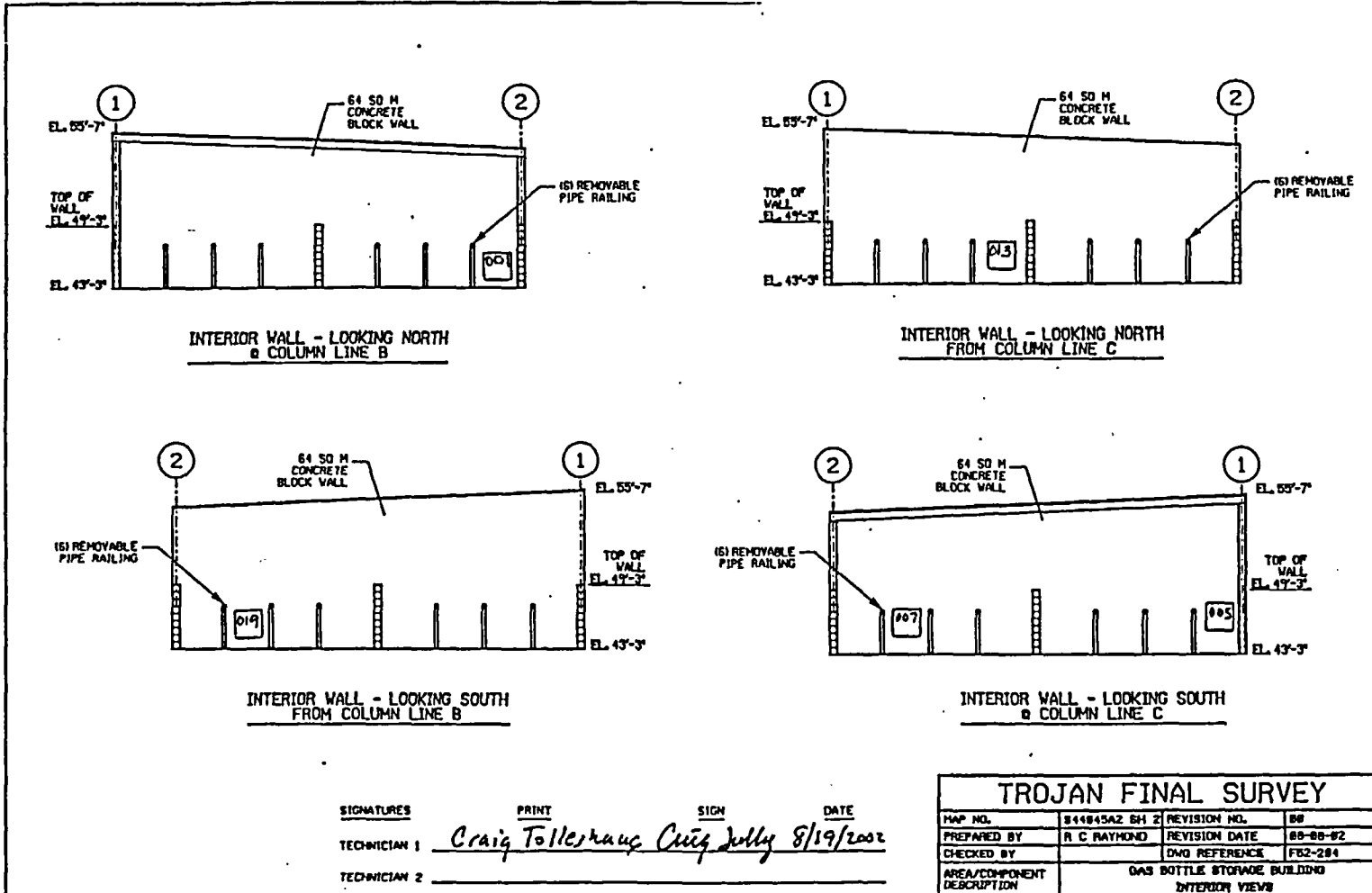
FILE NAME: LOCATION 6\NEW\TROJAN\COPIES\SURVEY\DWG\44045A2.dwg

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S44045A
 Survey Unit Name: Gas Bottle Storage Building Interior Walls and Ceiling

Classification: Class 3
 Size (m²): 1,196

Scan Measurement Locations Map



SIGNATURES PRINT SIGN DATE
 TECHNICIAN 1 Craig Tollerhaus Craig July 8/19/2002
 TECHNICIAN 2 _____

TROJAN FINAL SURVEY			
MAP NO.	S44045A2 64 2	REVISION NO.	BB
PREPARED BY	R C RAYMOND	REVISION DATE	08-08-02
CHECKED BY		DWG REFERENCE	FB2-204
AREA/COMPONENT DESCRIPTION	GAS BOTTLE STORAGE BUILDING INTERIOR VIEWS		

Lori Libal/Paris Subal 8-18-2002

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S46025A
 Survey Unit Name: Pebble Springs Warehouse

Classification: Class 3
 Size (m²): 1,412

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	71	DPM/100 CM ²	2.200e+004	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 1.365e+003
 Maximum Value : 1.801e+003
 Range : 4.360e+002
 Median : 1.576e+003
 Std. Deviation : 9.488e+001
 Mean : 1.585e+003
 95% UCL : 1.604e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	1.598e+003	000018	1.653e+003	000035	1.365e+003
000002	1.509e+003	000019	1.640e+003	000036	1.602e+003
000003	1.533e+003	000020	1.741e+003	000037	1.576e+003
000004	1.525e+003	000021	1.801e+003	000038	1.594e+003
000005	1.603e+003	000022	1.735e+003	000039	1.485e+003
000006	1.592e+003	000023	1.709e+003	000040	1.561e+003
000007	1.447e+003	000024	1.592e+003	000041	1.435e+003
000008	1.534e+003	000025	1.597e+003	000042	1.447e+003
000009	1.721e+003	000026	1.655e+003	000043	1.500e+003
000010	1.465e+003	000027	1.448e+003	000044	1.528e+003
000011	1.565e+003	000028	1.619e+003	000045	1.672e+003
000012	1.501e+003	000029	1.486e+003	000046	1.556e+003
000013	1.624e+003	000030	1.563e+003	000047	1.619e+003
000014	1.477e+003	000031	1.557e+003	000048	1.576e+003
000015	1.582e+003	000032	1.603e+003	000049	1.560e+003
000016	1.651e+003	000033	1.530e+003	000050	1.458e+003
000017	1.718e+003	000034	1.593e+003	000051	1.570e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S46025A
Survey Unit Name: Pebble Springs Warehouse

Classification: Class 3
Size (m²): 1,412

Scan Measurement Data

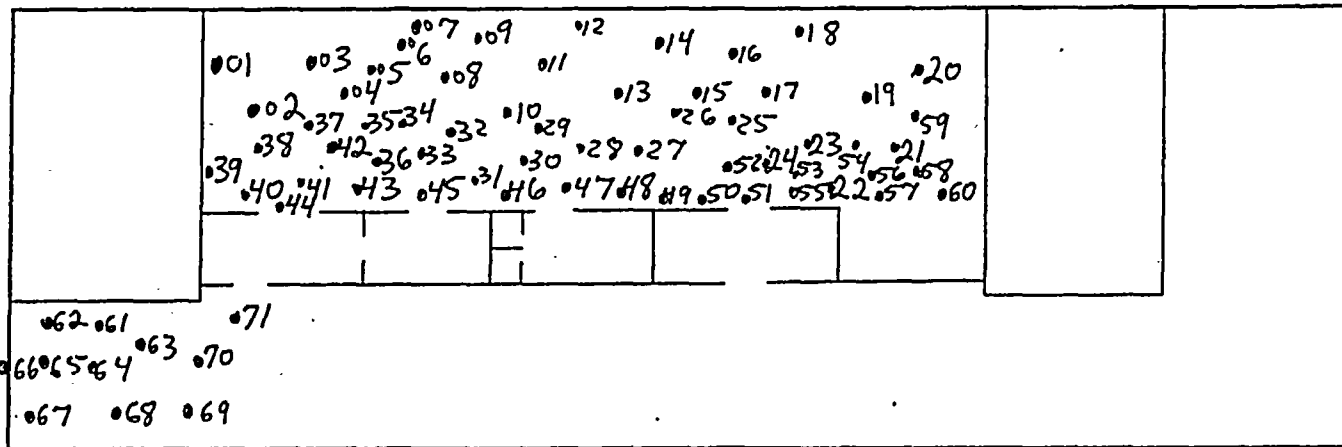
<u>Location</u>	<u>Value</u>
000052	1.514e+003
000053	1.516e+003
000054	1.623e+003
000055	1.543e+003
000056	1.509e+003
000057	1.549e+003
000058	1.764e+003
000059	1.776e+003
000060	1.693e+003
000061	1.629e+003
000062	1.421e+003
000063	1.575e+003
000064	1.676e+003
000065	1.523e+003
000066	1.572e+003
000067	1.700e+003
000068	1.767e+003
000069	1.552e+003
000070	1.594e+003
000071	1.778e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S46025A
 Survey Unit Name: Pebble Springs Warehouse

Classification: Class 3
 Size (m²): 1,412

Scan Measurement Locations Map



PEBBLE SPRINGS WAREHOUSE AREA (S46025A)

Loris Libal / L. Libal ^{dit} 7-16-2001
~~7-15-2001~~
 Survey Technician 1 thru 7-17-2001
 Date

Ron Keaton / Ron Keaton ^{dit} 7-16-2001
~~7-15-2001~~
 Survey Technician 1 thru 7-17-2001
 Date

PEBBLES.CAD

SUPPLEMENT TO APPENDIX D

SURVEY UNIT SUMMARY REPORTS –
CONDENSATE DEMINERALIZER BUILDING INTERIOR

<u>Survey Unit ID Code</u>	<u>Page(s)</u>
S07019A	D-2 through D-7
S07019B.....	D-8 through D-11
S07019C.....	D-12 through D-17
S07019D	D-18 through D-23
S07019E.....	D-24 through D-30
S07025A	D-31 through D-40
S07032A	D-41 through D-45
S07045A	D-46 through D-50
S07045B.....	D-51 through D-52

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019A

Classification: Class 1

Survey Unit Name: Condensate Demineralizer Building

Size (m²): 169

19' Elevation - Floor and Lower Walls - Col B and C/5 and 8

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	187	DPM/100 CM ²	7.500e+003	-	-

Statistical Quantities

Measurement Name:	
Minimum Value :	9.020e+002
Maximum Value :	7.171e+003
Range :	6.269e+003
Median :	1.476e+003
Std. Deviation :	1.080e+003
Mean :	1.643e+003
95% UCL :	1.774e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	1.320e+003	000018	1.333e+003	000035	9.798e+002
000002	1.289e+003	000019	1.361e+003	000036	1.483e+003
000003	1.216e+003	000020	1.518e+003	000037	1.454e+003
000004	1.315e+003	000021	1.108e+003	000038	1.309e+003
000005	1.182e+003	000022	1.168e+003	000039	1.444e+003
000006	1.244e+003	000023	1.182e+003	000040	1.402e+003
000007	1.201e+003	000024	1.053e+003	000041	1.423e+003
000008	1.202e+003	000025	1.146e+003	000042	1.503e+003
000009	1.286e+003	000026	1.235e+003	000043	1.348e+003
000010	2.151e+003	000027	1.473e+003	000044	1.491e+003
000011	1.227e+003	000028	1.152e+003	000045	1.467e+003
000012	1.261e+003	000029	1.306e+003	000046	1.819e+003
000013	1.297e+003	000030	1.276e+003	000047	1.794e+003
000014	1.304e+003	000031	1.323e+003	000048	2.170e+003
000015	1.198e+003	000032	9.383e+002	000049	1.711e+003
000016	1.166e+003	000033	9.512e+002	000050	1.936e+003
000017	1.314e+003	000034	9.494e+002	000051	2.065e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019A

Classification: Class 1

Survey Unit Name: Condensate Demineralizer Building

Size (m²): 169

19' Elevation – Floor and Lower Walls – Col B and C/5 and 8

Scan Measurement Data

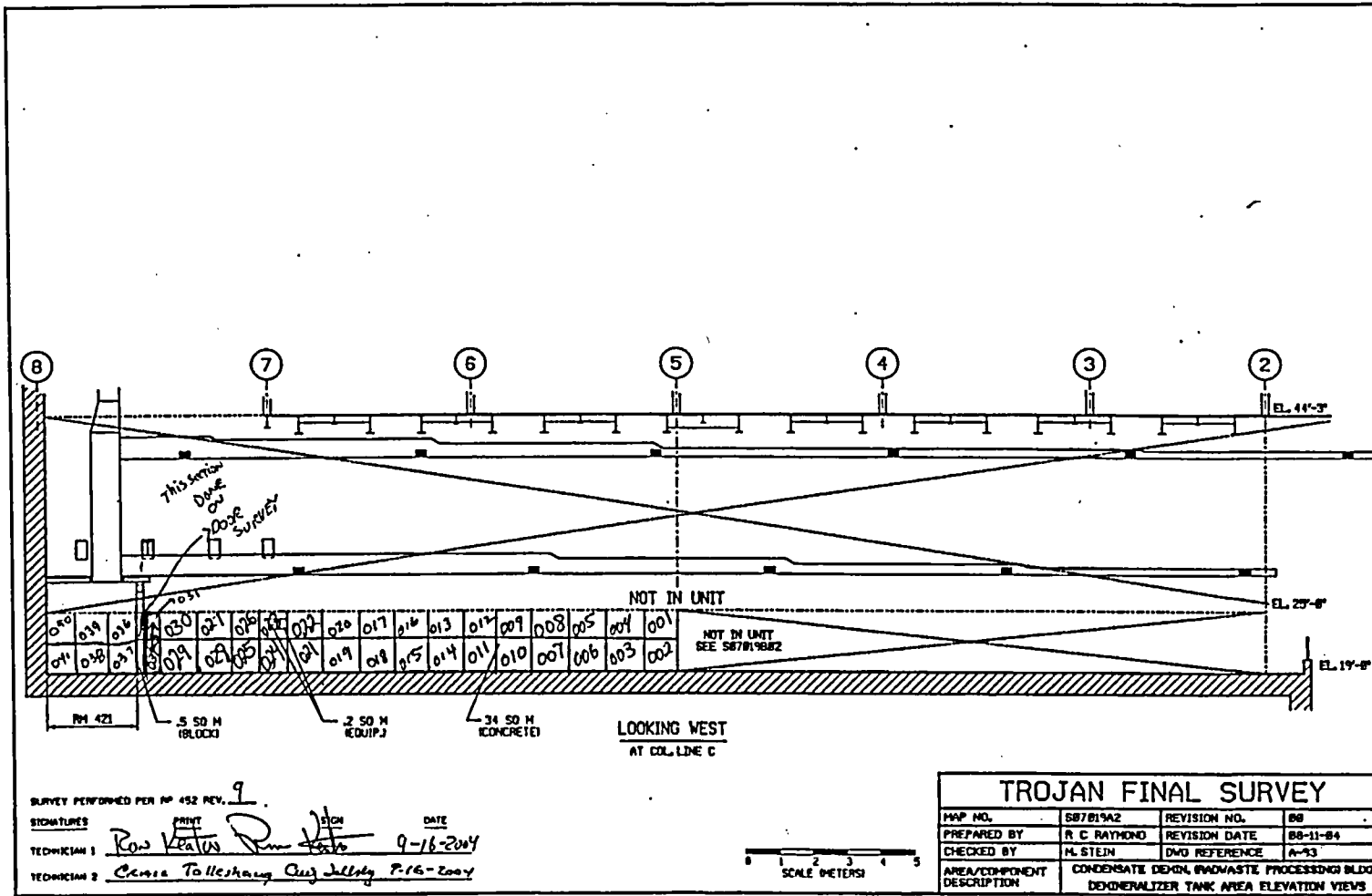
<u>Location</u>	<u>Value</u>	<u>Location</u>	<u>Value</u>	<u>Location</u>	<u>Value</u>
000052	1.158e+003	000099	1.448e+003	000146	1.542e+003
000053	1.030e+003	000100	1.562e+003	000147	1.516e+003
000054	1.101e+003	000101	1.427e+003	000148	1.605e+003
000055	1.313e+003	000102	1.505e+003	000149	1.575e+003
000056	1.405e+003	000103	1.818e+003	000150	1.642e+003
000057	1.084e+003	000104	1.433e+003	000151	1.495e+003
000058	1.032e+003	000105	1.400e+003	000152	1.502e+003
000059	9.964e+002	000106	1.552e+003	000153	1.551e+003
000060	1.103e+003	000107	1.567e+003	000154	1.516e+003
000061	9.448e+002	000108	1.508e+003	000155	1.658e+003
000062	1.088e+003	000109	1.635e+003	000156	1.509e+003
000063	1.001e+003	000110	1.641e+003	000157	1.477e+003
000064	9.595e+002	000111	1.413e+003	000158	1.436e+003
000065	1.087e+003	000112	1.624e+003	000159	1.534e+003
000066	1.066e+003	000113	1.548e+003	000160	1.680e+003
000067	1.104e+003	000114	1.717e+003	000161	1.476e+003
000068	1.370e+003	000115	1.721e+003	000162	1.662e+003
000069	1.188e+003	000116	1.470e+003	000163	1.615e+003
000070	1.112e+003	000117	1.510e+003	000164	1.788e+003
000071	9.807e+002	000118	1.611e+003	000165	1.599e+003
000072	1.045e+003	000119	1.869e+003	000166	1.693e+003
000073	1.031e+003	000120	1.580e+003	000167	1.590e+003
000074	1.046e+003	000121	1.626e+003	000168	1.705e+003
000075	1.103e+003	000122	1.785e+003	000169	1.545e+003
000076	1.007e+003	000123	1.493e+003	000170	1.539e+003
000077	1.054e+003	000124	1.522e+003	000171	1.281e+003
000078	9.798e+002	000125	1.823e+003	000172	1.565e+003
000079	1.045e+003	000126	1.648e+003	000173	1.237e+003
000080	1.140e+003	000127	1.649e+003	000174	1.356e+003
000081	1.493e+003	000128	1.623e+003	000175	1.623e+003
000082	1.405e+003	000129	1.688e+003	000176	1.522e+003
000083	1.490e+003	000130	1.566e+003	000177	4.988e+003
000084	1.018e+003	000131	1.639e+003	000178	6.811e+003
000085	1.370e+003	000132	1.939e+003	000179	5.191e+003
000086	1.207e+003	000133	1.742e+003	000180	9.020e+002
000087	1.646e+003	000134	1.495e+003	000181	7.031e+003
000088	1.300e+003	000135	1.710e+003	000182	6.891e+003
000089	9.255e+002	000136	1.641e+003	000183	4.530e+003
000090	1.367e+003	000137	1.500e+003	000184	7.071e+003
000091	9.816e+002	000138	1.770e+003	000185	1.335e+003
000092	1.731e+003	000139	1.466e+003	000186	7.171e+003
000093	1.518e+003	000140	1.466e+003	000187	6.110e+003
000094	1.549e+003	000141	1.465e+003		
000095	1.492e+003	000142	1.539e+003		
000096	1.619e+003	000143	1.574e+003		
000097	1.595e+003	000144	1.578e+003		
000098	1.519e+003	000145	1.437e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019A
 Survey Unit Name: Condensate Demineralizer Building 19' Elevation
 Floor and Lower Walls - Col B and C/5 and 8

Classification: Class 1
 Size (m²): 169

Scan Measurement Locations Map

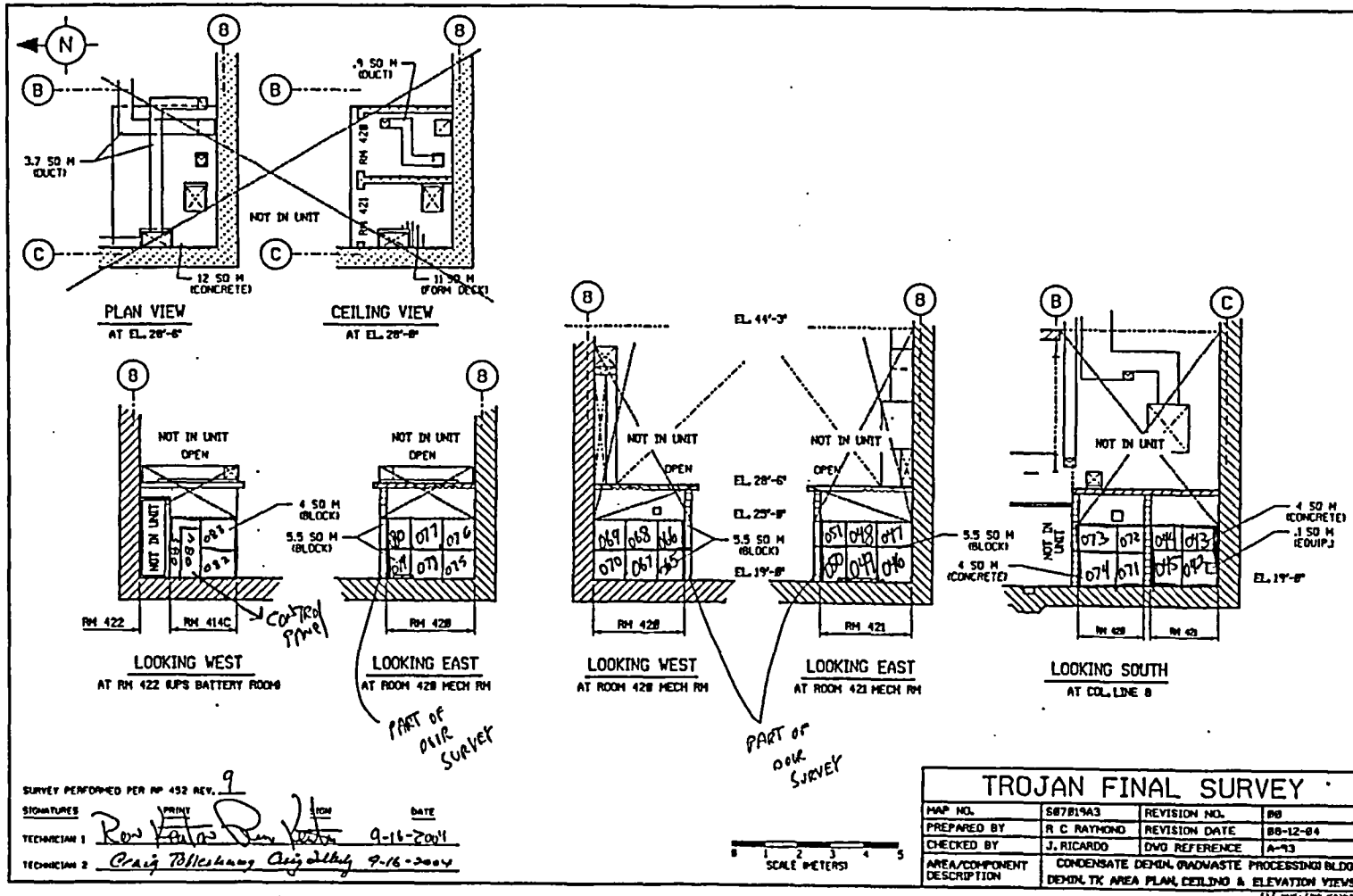


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019A
 Survey Unit Name: Condensate Demineralizer Building 19' Elevation
 Floor and Lower Walls – Col B and C/5 and 8

Classification: Class 1
 Size (m²): 169

Scan Measurement Locations Map

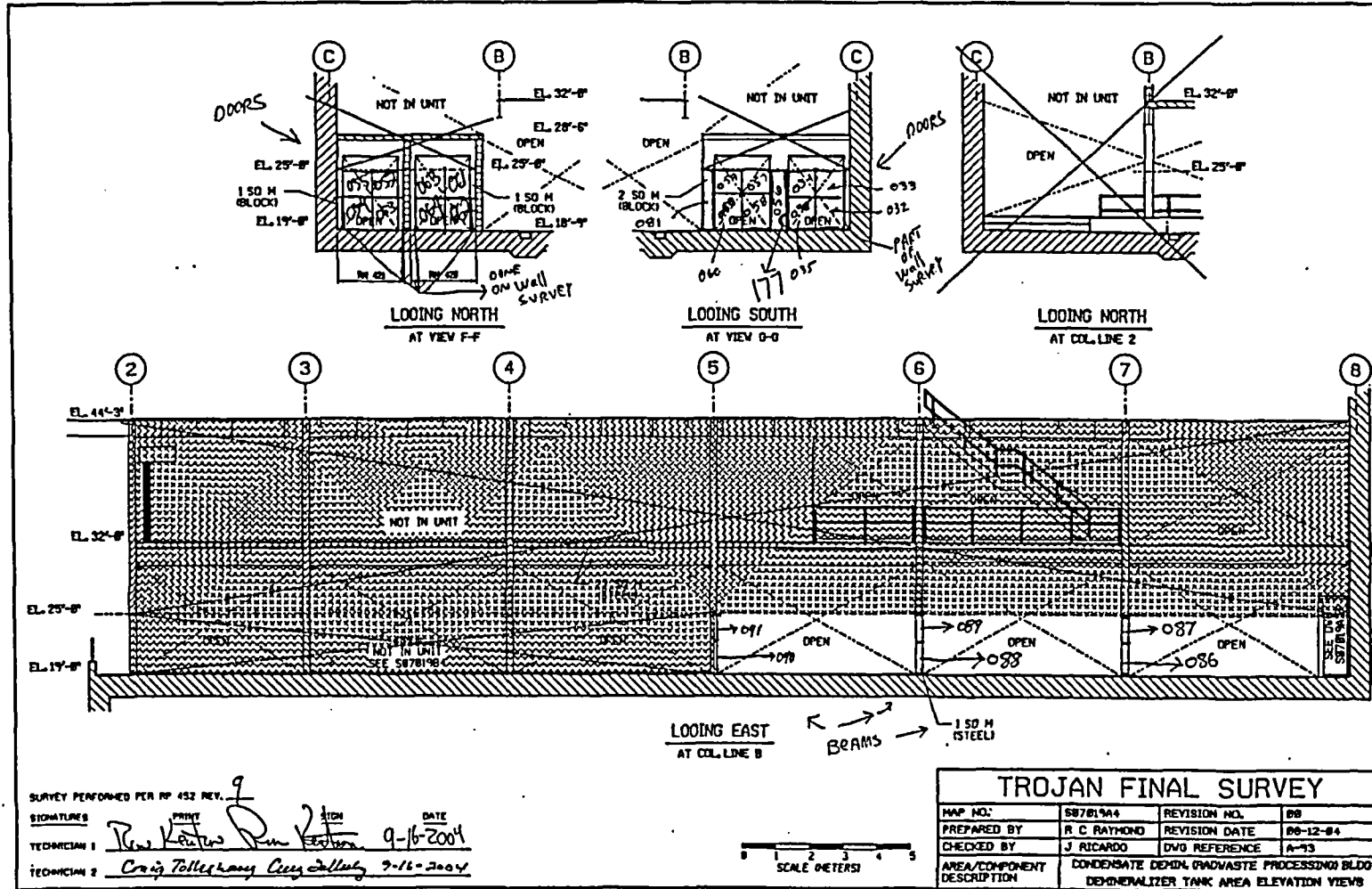


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019A
 Survey Unit Name: Condensate Demineralizer Building 19' Elevation
 Floor and Lower Walls - Col B and C/5 and 8

Classification: Class 1
 Size (m²): 169

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019B Classification: Class 1
 Survey Unit Name: Condensate Demineralizer Building Size (m²): 138
 19' Elevation – Floor and Lower Walls – Col B and C/2 and 5

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	127	DPM/100 CM ²	7.500e+003	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 1.380e+003
 Maximum Value : 4.821e+003
 Range : 3.441e+003
 Median : 2.578e+003
 Std. Deviation : 3.693e+002
 Mean : 2.579e+003
 95% UCL : 2.633e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	2.609e+003	000018	2.821e+003	000035	2.635e+003
000002	3.631e+003	000019	2.693e+003	000036	2.772e+003
000003	2.481e+003	000020	2.695e+003	000037	3.108e+003
000004	2.523e+003	000021	2.992e+003	000038	2.530e+003
000005	2.621e+003	000022	2.750e+003	000039	2.867e+003
000006	2.666e+003	000023	2.769e+003	000040	2.804e+003
000007	2.729e+003	000024	2.743e+003	000041	2.706e+003
000008	2.552e+003	000025	2.398e+003	000042	2.738e+003
000009	2.578e+003	000026	2.764e+003	000043	2.979e+003
000010	2.604e+003	000027	2.623e+003	000044	2.658e+003
000011	2.555e+003	000028	2.481e+003	000045	2.686e+003
000012	2.621e+003	000029	2.473e+003	000046	2.533e+003
000013	2.563e+003	000030	2.609e+003	000047	2.570e+003
000014	2.601e+003	000031	2.643e+003	000048	2.962e+003
000015	2.576e+003	000032	2.698e+003	000049	2.747e+003
000016	2.626e+003	000033	2.947e+003	000050	2.789e+003
000017	2.563e+003	000034	2.786e+003	000051	2.806e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019B

Classification: Class 1

Survey Unit Name: Condensate Demineralizer Building

Size (m²): 138

19' Elevation – Floor and Lower Walls – Col B and C/2 and 5

Scan Measurement Data

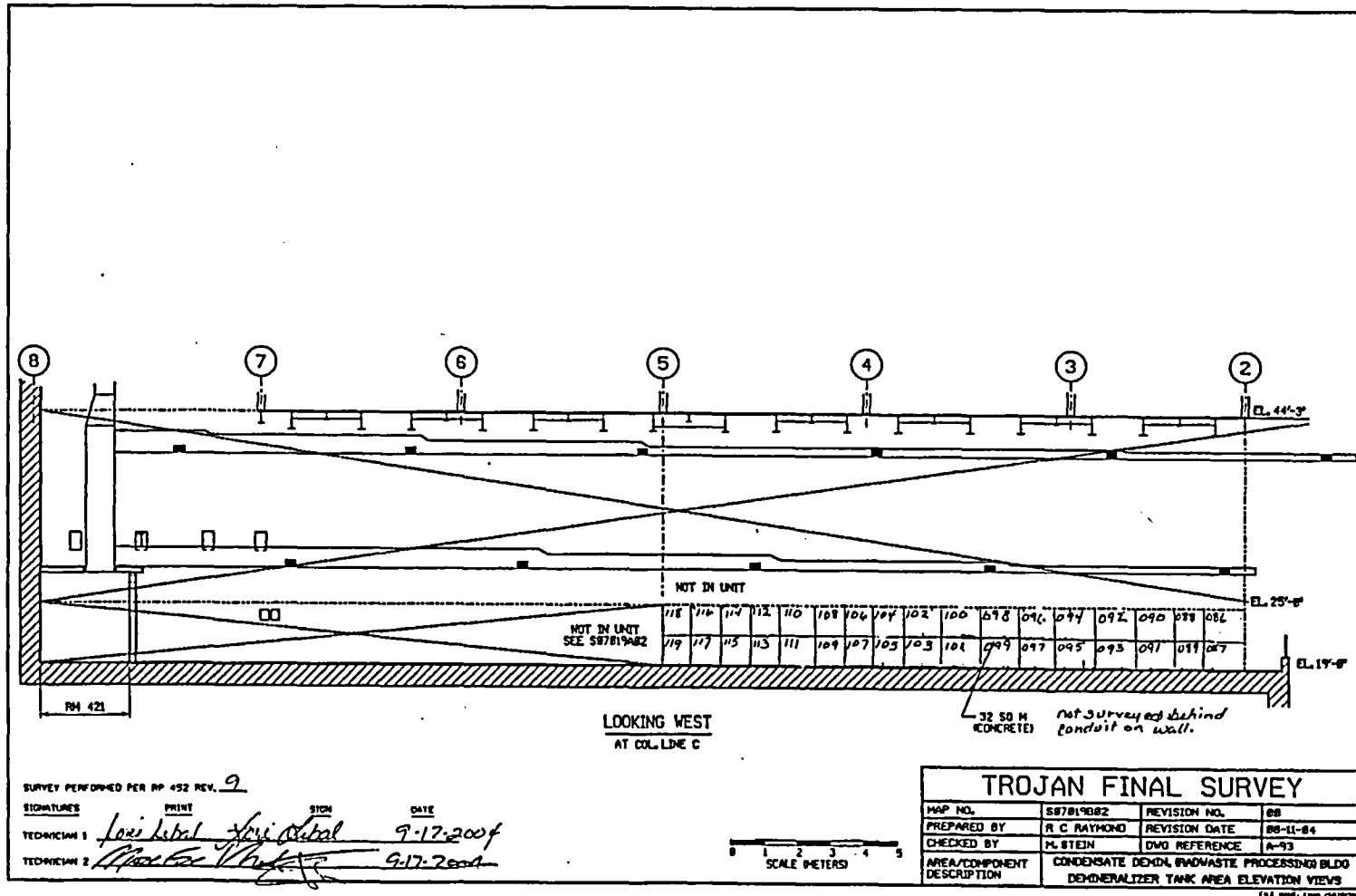
<u>Location</u>	<u>Value</u>	<u>Location</u>	<u>Value</u>
000052	2.838e+003	000099	2.255e+003
000053	2.584e+003	000100	3.912e+003
000054	2.764e+003	000101	2.743e+003
000055	2.712e+003	000102	2.504e+003
000056	2.695e+003	000103	2.446e+003
000057	4.821e+003	000104	2.410e+003
000058	2.984e+003	000105	2.367e+003
000059	2.904e+003	000106	2.547e+003
000060	2.723e+003	000107	2.394e+003
000061	2.615e+003	000108	2.454e+003
000062	2.706e+003	000109	2.307e+003
000063	2.753e+003	000110	2.464e+003
000064	2.572e+003	000111	2.320e+003
000065	2.793e+003	000112	2.504e+003
000066	2.839e+003	000113	2.338e+003
000067	2.478e+003	000114	2.447e+003
000068	2.726e+003	000115	2.578e+003
000069	2.540e+003	000116	2.592e+003
000070	2.646e+003	000117	2.323e+003
000071	2.398e+003	000118	2.570e+003
000072	2.727e+003	000119	2.513e+003
000073	2.486e+003	000120	1.743e+003
000074	2.377e+003	000121	1.380e+003
000075	2.543e+003	000122	2.060e+003
000076	2.384e+003	000123	1.630e+003
000077	2.607e+003	000124	1.915e+003
000078	2.501e+003	000125	2.046e+003
000079	2.306e+003	000126	1.915e+003
000080	2.497e+003	000127	1.593e+003
000081	2.603e+003		
000082	2.712e+003		
000083	2.683e+003		
000084	2.529e+003		
000085	2.641e+003		
000086	2.180e+003		
000087	2.352e+003		
000088	2.347e+003		
000089	2.457e+003		
000090	2.218e+003		
000091	2.404e+003		
000092	2.387e+003		
000093	2.357e+003		
000094	2.375e+003		
000095	2.284e+003		
000096	2.426e+003		
000097	2.467e+003		
000098	2.418e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019B
 Survey Unit Name: Condensate Demineralizer Building 19' Elevation
 Floor and Lower Walls – Col B and C/2 and 5

Classification: Class 1
 Size (m²): 138

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019C

Classification: Class 1

Survey Unit Name: Condensate Demineralizer Building

Size (m²): 175

19' Elevation – Floor and Lower Walls – Col A and B/5 and 8

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	166	DPM/100 CM ²	7.500e+003	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 9.614e+002
 Maximum Value : 6.828e+003
 Range : 5.867e+003
 Median : 2.321e+003
 Std. Deviation : 8.669e+002
 Mean : 2.126e+003
 95% UCL : 2.238e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	1.431e+003	000018	1.411e+003	000035	1.443e+003
000002	1.341e+003	000019	1.418e+003	000036	1.470e+003
000003	1.328e+003	000020	1.574e+003	000037	1.185e+003
000004	1.399e+003	000021	1.387e+003	000038	1.079e+003
000005	1.270e+003	000022	1.238e+003	000039	1.356e+003
000006	1.416e+003	000023	1.400e+003	000040	1.072e+003
000007	1.321e+003	000024	1.357e+003	000041	1.274e+003
000008	1.198e+003	000025	1.326e+003	000042	1.219e+003
000009	1.318e+003	000026	1.272e+003	000043	1.335e+003
000010	1.392e+003	000027	1.307e+003	000044	1.451e+003
000011	1.464e+003	000028	1.339e+003	000045	1.444e+003
000012	1.328e+003	000029	1.434e+003	000046	1.295e+003
000013	1.291e+003	000030	1.251e+003	000047	1.279e+003
000014	1.321e+003	000031	1.442e+003	000048	1.456e+003
000015	1.435e+003	000032	1.390e+003	000049	1.479e+003
000016	1.309e+003	000033	1.257e+003	000050	1.179e+003
000017	1.410e+003	000034	1.446e+003	000051	1.036e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019C

Classification: Class 1

Survey Unit Name: Condensate Demineralizer Building

Size (m²): 175

19' Elevation - Floor and Lower Walls - Col A and B/5 and 8

Scan Measurement Data

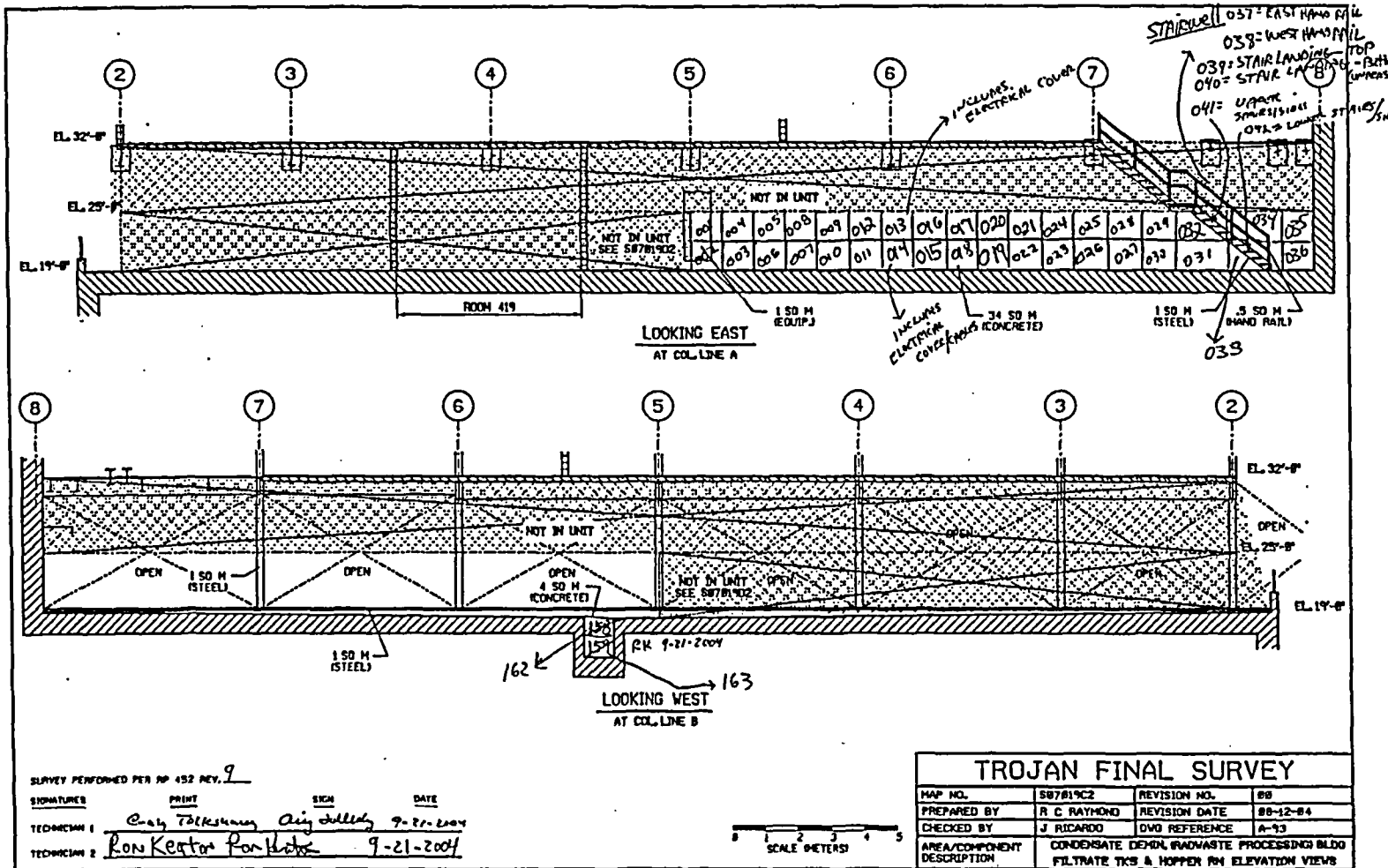
Location	Value	Location	Value	Location	Value
000052	1.068e+003	000099	2.363e+003	000146	2.354e+003
000053	1.149e+003	000100	2.443e+003	000147	2.347e+003
000054	9.862e+002	000101	2.421e+003	000148	2.518e+003
000055	1.065e+003	000102	2.560e+003	000149	2.500e+003
000056	1.140e+003	000103	2.440e+003	000150	2.277e+003
000057	1.018e+003	000104	2.444e+003	000151	2.498e+003
000058	1.073e+003	000105	2.375e+003	000152	2.489e+003
000059	9.614e+002	000106	2.261e+003	000153	2.444e+003
000060	1.098e+003	000107	2.324e+003	000154	2.716e+003
000061	1.679e+003	000108	2.370e+003	000155	2.261e+003
000062	1.139e+003	000109	2.561e+003	000156	2.950e+003
000063	1.484e+003	000110	2.575e+003	000157	1.605e+003
000064	1.482e+003	000111	2.378e+003	000158	3.107e+003
000065	1.482e+003	000112	2.457e+003	000159	4.380e+003
000066	1.466e+003	000113	2.306e+003	000160	4.978e+003
000067	2.721e+003	000114	2.473e+003	000161	6.311e+003
000068	3.734e+003	000115	3.013e+003	000162	3.494e+003
000069	3.032e+003	000116	2.518e+003	000163	3.371e+003
000070	2.312e+003	000117	2.403e+003	000164	3.596e+003
000071	2.248e+003	000118	2.314e+003	000165	6.828e+003
000072	2.320e+003	000119	2.584e+003	000166	2.755e+003
000073	2.148e+003	000120	2.351e+003		
000074	2.246e+003	000121	2.464e+003		
000075	2.500e+003	000122	2.300e+003		
000076	2.570e+003	000123	2.535e+003		
000077	2.864e+003	000124	2.480e+003		
000078	2.400e+003	000125	2.509e+003		
000079	2.501e+003	000126	2.358e+003		
000080	2.669e+003	000127	2.953e+003		
000081	2.603e+003	000128	2.815e+003		
000082	2.364e+003	000129	2.560e+003		
000083	2.357e+003	000130	2.541e+003		
000084	2.321e+003	000131	2.540e+003		
000085	2.208e+003	000132	2.532e+003		
000086	2.421e+003	000133	2.712e+003		
000087	2.415e+003	000134	2.452e+003		
000088	2.429e+003	000135	2.274e+003		
000089	2.386e+003	000136	2.553e+003		
000090	2.412e+003	000137	2.504e+003		
000091	2.593e+003	000138	3.264e+003		
000092	2.294e+003	000139	2.758e+003		
000093	2.509e+003	000140	3.156e+003		
000094	2.609e+003	000141	2.558e+003		
000095	2.372e+003	000142	2.812e+003		
000096	2.493e+003	000143	2.366e+003		
000097	2.321e+003	000144	2.298e+003		
000098	2.501e+003	000145	2.503e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019C
 Survey Unit Name: Condensate Demineralizer Building 19' Elevation
 Floor and Lower Walls - Col A and B/5 and 8

Classification: Class 1
 Size (m²): 175

Scan Measurement Locations Map

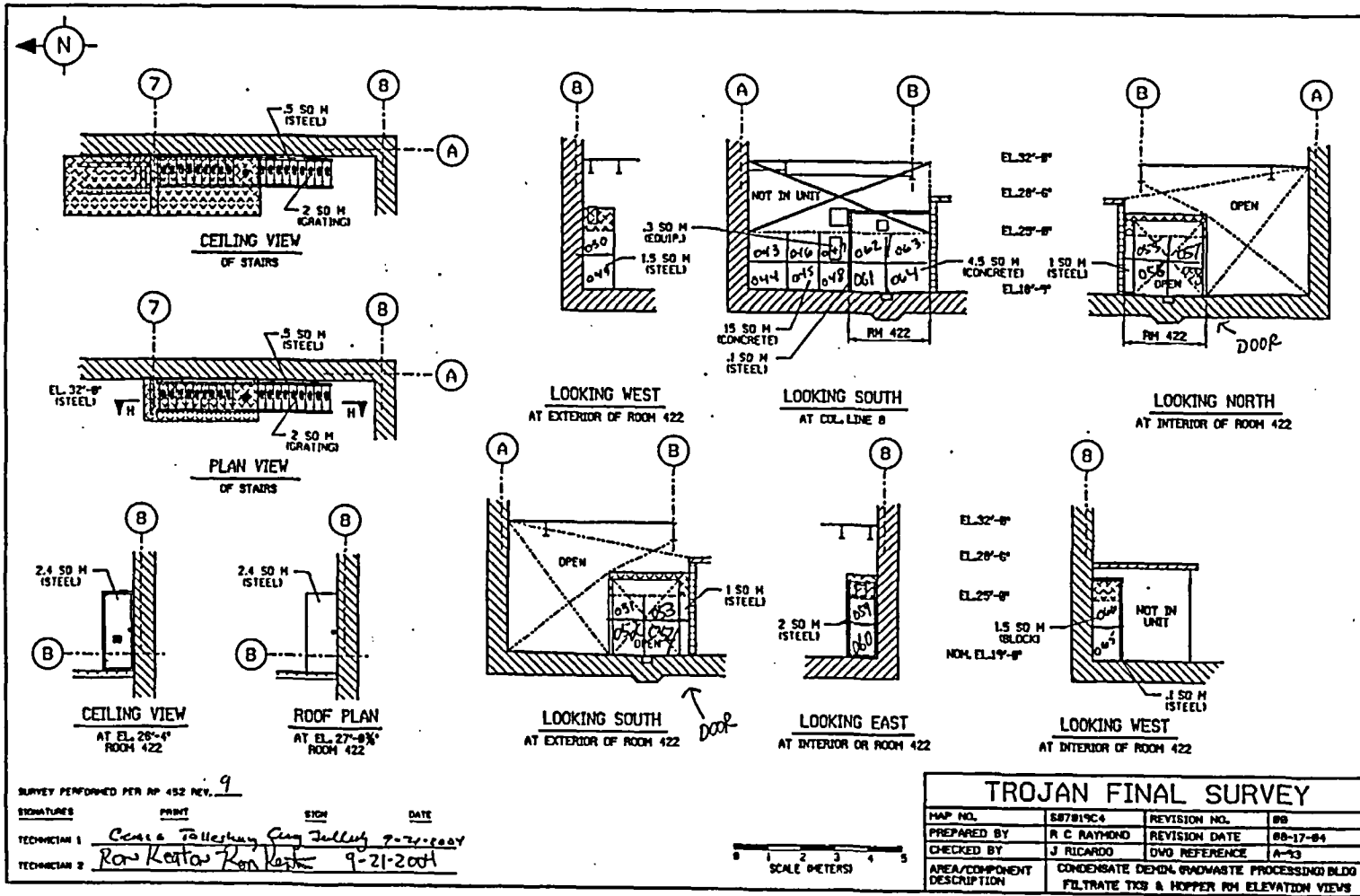


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019C
 Survey Unit Name: Condensate Demineralizer Building 19' Elevation
 Floor and Lower Walls – Col A and B/5 and 8

Classification: Class 1
 Size (m²): 175

Scan Measurement Locations Map

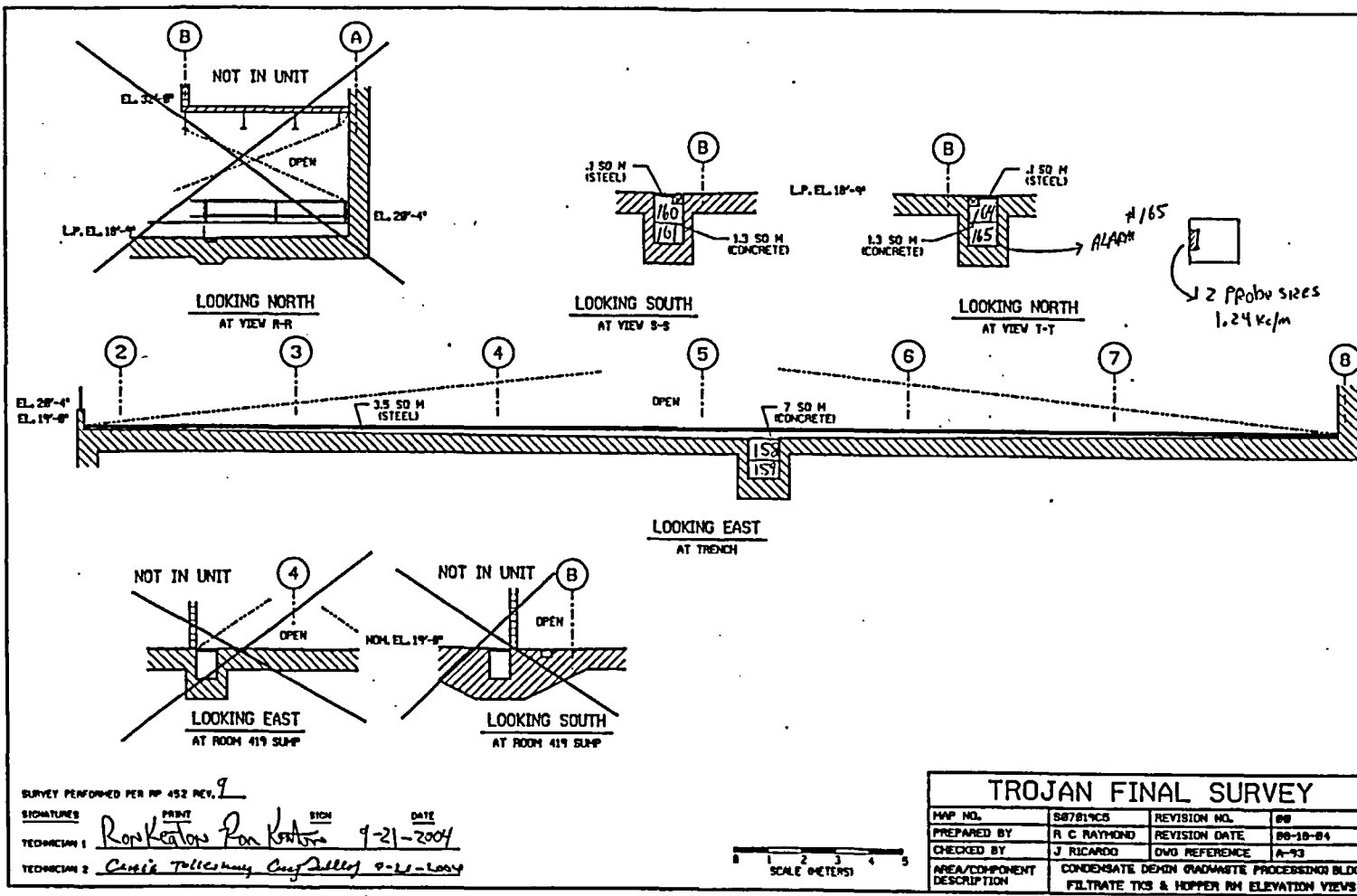


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019C
 Survey Unit Name: Condensate Demineralizer Building 19' Elevation
 Floor and Lower Walls - Col A and B/5 and 8

Classification: Class 1
 Size (m²): 175

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019D

Classification: Class 1

Survey Unit Name: Condensate Demineralizer Building

Size (m²): 158

19' Elevation - Floor and Lower Walls - Col A and B/2 and 5

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	160	DPM/100 CM ²	7.500e+003	-	-

Statistical Quantities

Measurement Name:	
Minimum Value :	1.569e+003
Maximum Value :	1.595e+004
Range :	1.438e+004
Median :	2.370e+003
Std. Deviation :	1.481e+003
Mean :	2.548e+003
95% UCL :	2.742e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	2.444e+003	000018	2.508e+003	000035	2.717e+003
000002	2.441e+003	000019	2.693e+003	000036	2.632e+003
000003	2.656e+003	000020	2.772e+003	000037	2.783e+003
000004	2.330e+003	000021	2.555e+003	000038	2.747e+003
000005	2.417e+003	000022	2.456e+003	000039	2.924e+003
000006	2.217e+003	000023	2.612e+003	000040	2.604e+003
000007	2.543e+003	000024	2.500e+003	000041	2.778e+003
000008	1.987e+003	000025	2.598e+003	000042	2.455e+003
000009	2.087e+003	000026	2.760e+003	000043	2.661e+003
000010	3.906e+003	000027	2.688e+003	000044	2.789e+003
000011	2.629e+003	000028	2.429e+003	000045	2.732e+003
000012	2.383e+003	000029	2.526e+003	000046	2.554e+003
000013	2.452e+003	000030	2.935e+003	000047	2.632e+003
000014	2.327e+003	000031	2.612e+003	000048	2.612e+003
000015	2.333e+003	000032	2.659e+003	000049	2.731e+003
000016	2.583e+003	000033	2.845e+003	000050	2.781e+003
000017	2.650e+003	000034	2.621e+003	000051	2.717e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019D

Classification: Class 1

Survey Unit Name: Condensate Demineralizer Building

Size (m²): 158

19' Elevation – Floor and Lower Walls – Col A and B/2 and 5

Scan Measurement Data

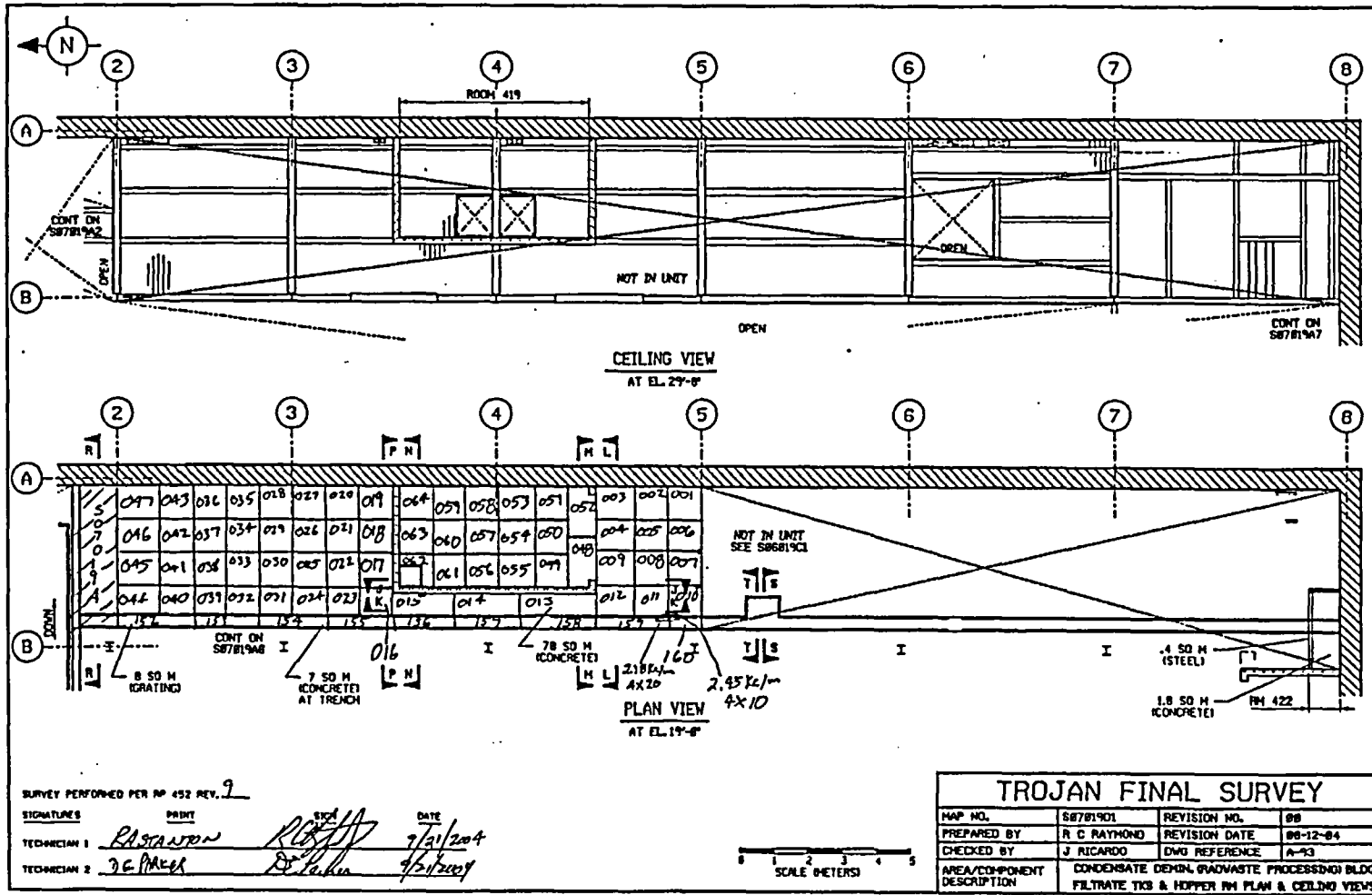
<u>Location</u>	<u>Value</u>	<u>Location</u>	<u>Value</u>	<u>Location</u>	<u>Value</u>
000052	2.522e+003	000099	1.569e+003	000146	2.203e+003
000053	2.590e+003	000100	1.711e+003	000147	2.340e+003
000054	2.796e+003	000101	2.444e+003	000148	2.487e+003
000055	2.757e+003	000102	5.214e+003	000149	2.197e+003
000056	2.653e+003	000103	1.936e+003	000150	2.142e+003
000057	2.760e+003	000104	3.385e+003	000151	1.950e+003
000058	2.424e+003	000105	1.924e+003	000152	2.991e+003
000059	2.633e+003	000106	1.759e+003	000153	3.098e+003
000060	2.764e+003	000107	1.891e+003	000154	2.824e+003
000061	2.744e+003	000108	1.773e+003	000155	2.819e+003
000062	2.342e+003	000109	1.688e+003	000156	3.104e+003
000063	2.709e+003	000110	2.107e+003	000157	2.565e+003
000064	2.609e+003	000111	2.154e+003	000158	2.933e+003
000065	1.910e+003	000112	2.331e+003	000159	1.422e+004
000066	2.304e+003	000113	2.301e+003	000160	1.595e+004
000067	2.289e+003	000114	1.976e+003		
000068	2.028e+003	000115	2.145e+003		
000069	2.356e+003	000116	2.202e+003		
000070	1.885e+003	000117	2.023e+003		
000071	2.246e+003	000118	2.348e+003		
000072	1.990e+003	000119	2.304e+003		
000073	2.150e+003	000120	2.366e+003		
000074	3.013e+003	000121	2.374e+003		
000075	1.895e+003	000122	2.281e+003		
000076	2.292e+003	000123	2.299e+003		
000077	1.997e+003	000124	2.389e+003		
000078	2.148e+003	000125	2.379e+003		
000079	1.996e+003	000126	2.537e+003		
000080	1.958e+003	000127	2.328e+003		
000081	2.119e+003	000128	2.017e+003		
000082	2.167e+003	000129	2.443e+003		
000083	1.950e+003	000130	2.194e+003		
000084	2.200e+003	000131	2.101e+003		
000085	1.825e+003	000132	2.282e+003		
000086	2.133e+003	000133	2.488e+003		
000087	2.069e+003	000134	2.299e+003		
000088	1.961e+003	000135	2.519e+003		
000089	2.006e+003	000136	2.064e+003		
000090	2.333e+003	000137	2.272e+003		
000091	2.267e+003	000138	2.357e+003		
000092	1.827e+003	000139	2.307e+003		
000093	1.987e+003	000140	2.032e+003		
000094	2.003e+003	000141	2.377e+003		
000095	1.816e+003	000142	1.993e+003		
000096	1.613e+003	000143	2.122e+003		
000097	1.587e+003	000144	2.491e+003		
000098	1.630e+003	000145	2.153e+003		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019D
 Survey Unit Name: Condensate Demineralizer Building
 19' Elevation – Floor and Lower Walls – Col A and B/2 and 5

Classification: Class 1
 Size (m²): 158

Scan Measurement Locations Map

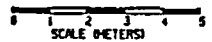


SURVEY PERFORMED PER RP 452 REV. 9

SIGNATURES: *R. Raymond* (TECHNICIAN 1), *J. Ricardo* (TECHNICIAN 2)

DATE: 7/21/2004

TROJAN FINAL SURVEY			
MAP NO.	S07019D1	REVISION NO.	08
PREPARED BY	R C RAYMOND	REVISION DATE	08-12-04
CHECKED BY	J RICARDO	DWG REFERENCE	A-73
AREA/COMPONENT DESCRIPTION	CONDENSATE DEMIN. WASTEWATER PROCESSING BLDG FILTRATE TKS & HOPPER RM PLAN & CEILING VIEWS		



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019D

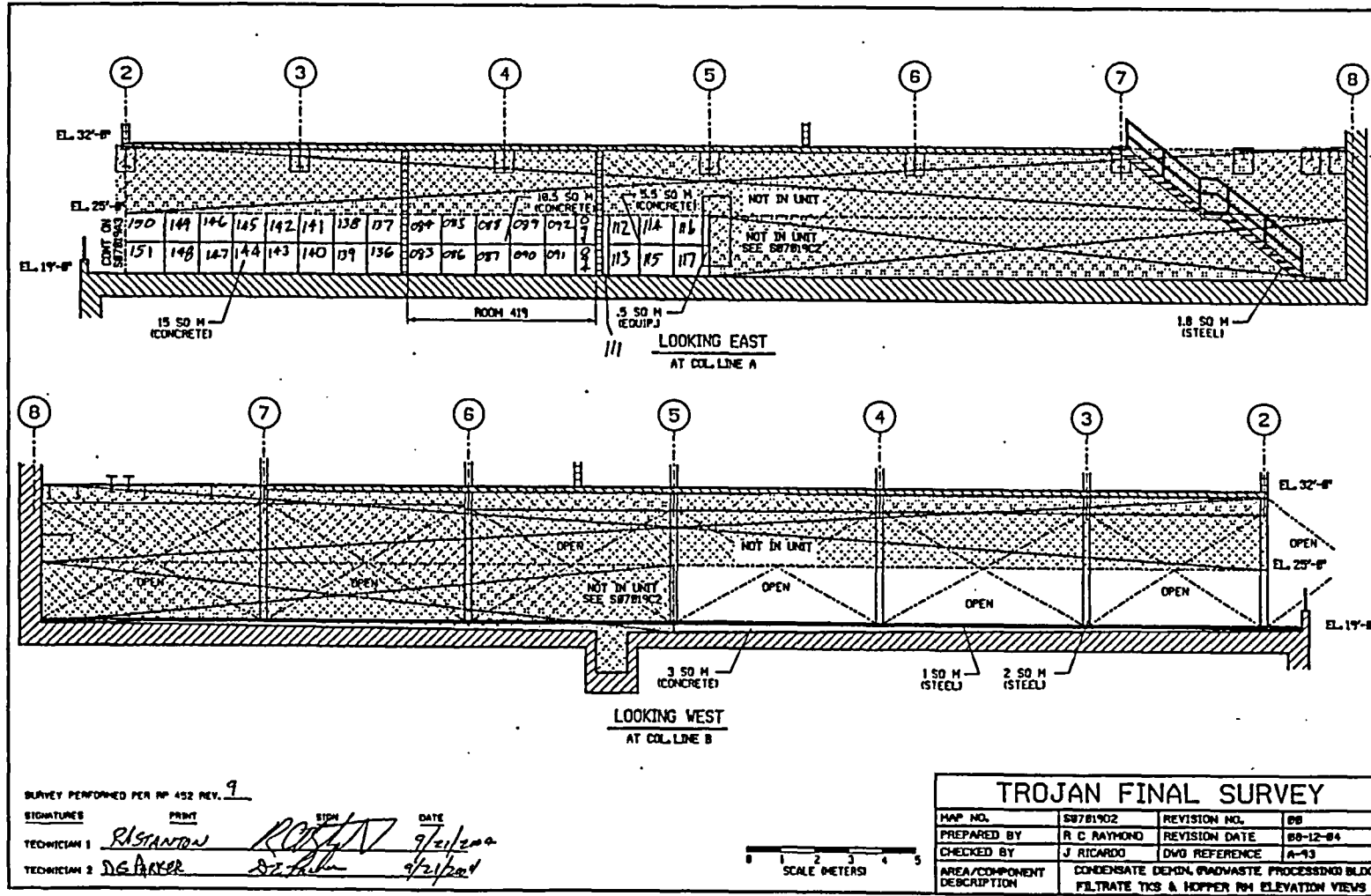
Survey Unit Name: Condensate Demineralizer Building

19' Elevation - Floor and Lower Walls - Col A and B/2 and 5

Classification: Class 1

Size (m²): 158

Scan Measurement Locations Map



SURVEY PERFORMED PER HP 452 REV. 9

SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	R. STANTON	<i>[Signature]</i>	9/21/2004
TECHNICIAN 2	D.G. PARKER	<i>[Signature]</i>	9/21/2004

TROJAN FINAL SURVEY			
MAP NO.	S0701902	REVISION NO.	00
PREPARED BY	R. C. RAYMOND	REVISION DATE	08-12-04
CHECKED BY	J. RICARDO	DWG REFERENCE	A-13
AREA/COMPONENT DESCRIPTION	CONDENSATE DEMIN. RADWASTE PROCESSING BLDG FILTRATE TKS & HOPPER RM ELEVATION VIEWS		



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019D

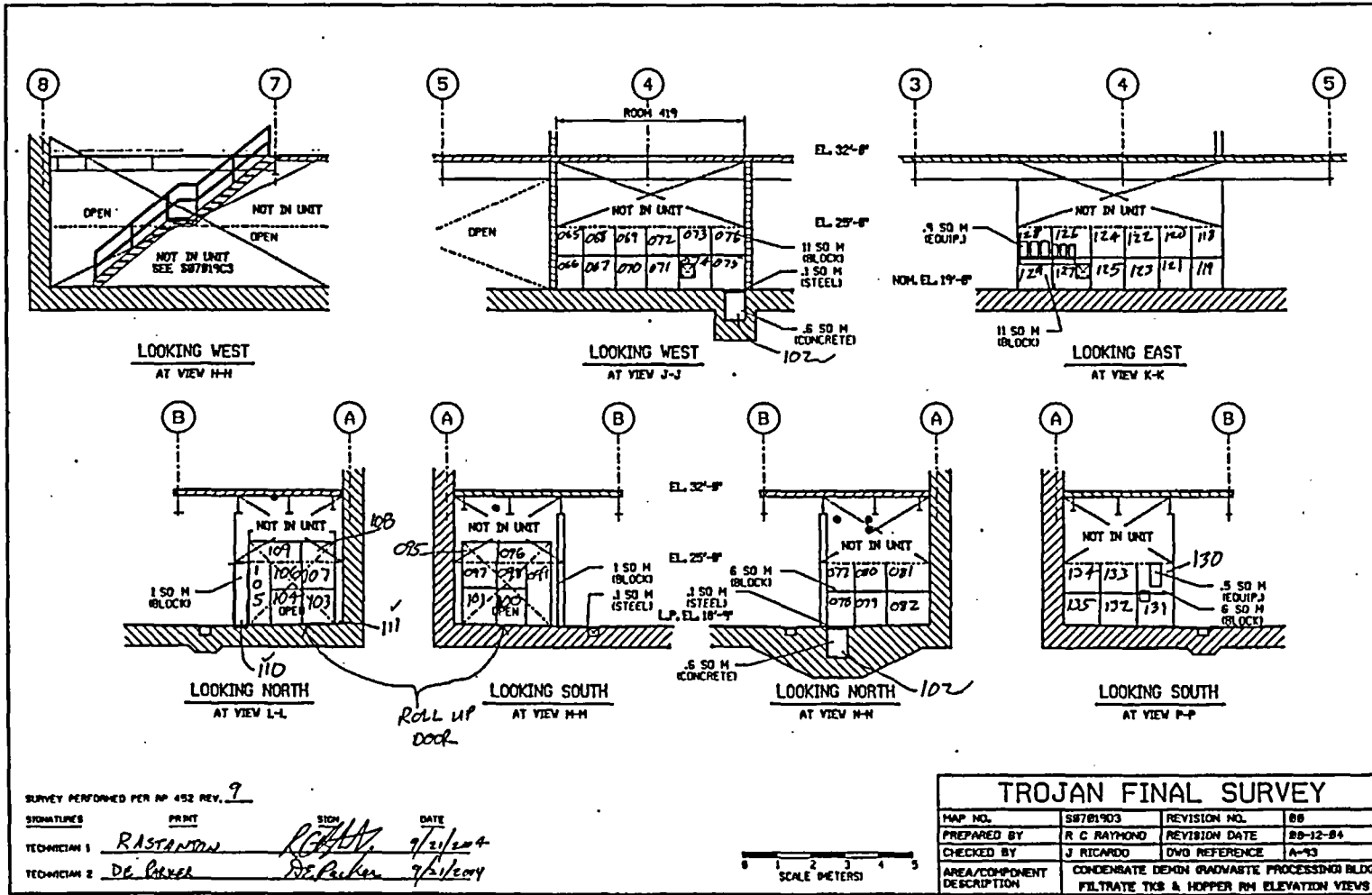
Survey Unit Name: Condensate Demineralizer Building

19' Elevation - Floor and Lower Walls - Col A and B/2 and 5

Classification: Class 1

Size (m²): 158

Scan Measurement Locations Map



SURVEY PERFORMED PER SP 452 REV. 7

SIGNATURES: PRINT, SIGN, DATE

TECHNICIAN 1: RASTANOW, R. RASTANOW, 7/21/04

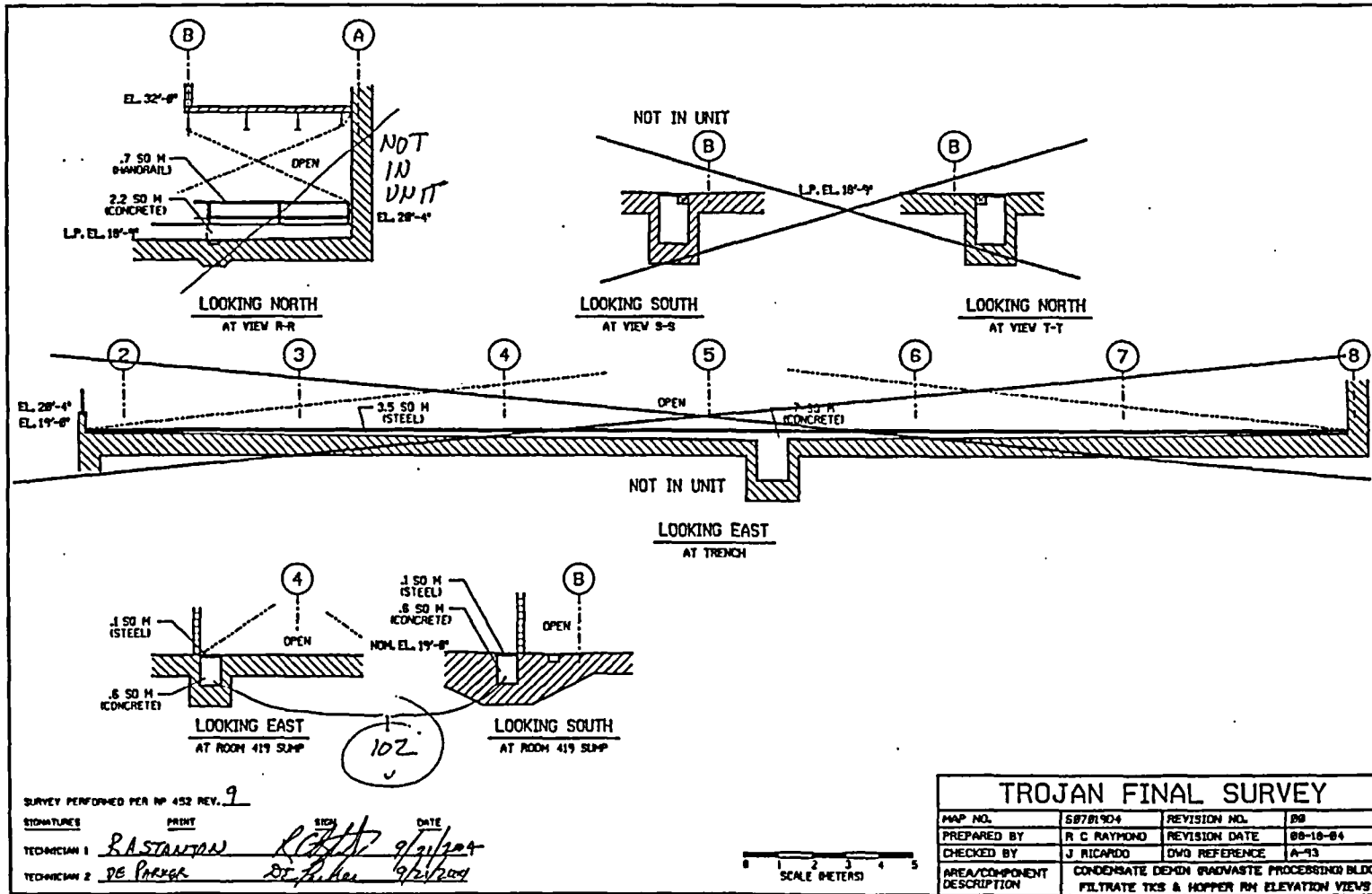
TECHNICIAN 2: DE PUKER, D. PUKER, 7/21/04

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019D
 Survey Unit Name: Condensate Demineralizer Building
 19' Elevation - Floor and Lower Walls - Col A and B/2 and 5

Classification: Class 1
 Size (m²): 158

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019E
Survey Unit Name: Condensate Demineralizer Building
 19' Elevation - Backwash Tank Area

Classification: Class 2
Size (m²): 585

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	88	DPM/100 CM ²	7.500e+003	-	-

Statistical Quantities

Measurement Name:
Minimum Value : 8.067e+002
Maximum Value : 1.905e+003
Range : 1.098e+003
Median : 1.071e+003
Std. Deviation : 2.096e+002
Mean : 1.092e+003
95% UCL : 1.129e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	1.040e+003	000018	9.393e+002	000035	1.018e+003
000002	9.752e+002	000019	8.914e+002	000036	1.121e+003
000003	1.065e+003	000020	1.129e+003	000037	1.002e+003
000004	9.687e+002	000021	9.448e+002	000038	1.905e+003
000005	9.494e+002	000022	9.172e+002	000039	1.188e+003
000006	9.255e+002	000023	9.209e+002	000040	8.849e+002
000007	8.067e+002	000024	9.301e+002	000041	9.632e+002
000008	8.306e+002	000025	8.601e+002	000042	1.324e+003
000009	9.476e+002	000026	8.426e+002	000043	1.119e+003
000010	8.592e+002	000027	9.070e+002	000044	1.402e+003
000011	8.776e+002	000028	9.485e+002	000045	1.385e+003
000012	9.236e+002	000029	8.067e+002	000046	1.422e+003
000013	8.076e+002	000030	8.730e+002	000047	1.466e+003
000014	1.066e+003	000031	9.420e+002	000048	1.492e+003
000015	9.798e+002	000032	8.840e+002	000049	1.507e+003
000016	9.144e+002	000033	8.610e+002	000050	1.403e+003
000017	9.043e+002	000034	1.087e+003	000051	1.344e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019E
Survey Unit Name: Condensate Demineralizer Building
19' Elevation – Backwash Tank Area

Classification: Class 2
Size (m²): 585

Scan Measurement Data

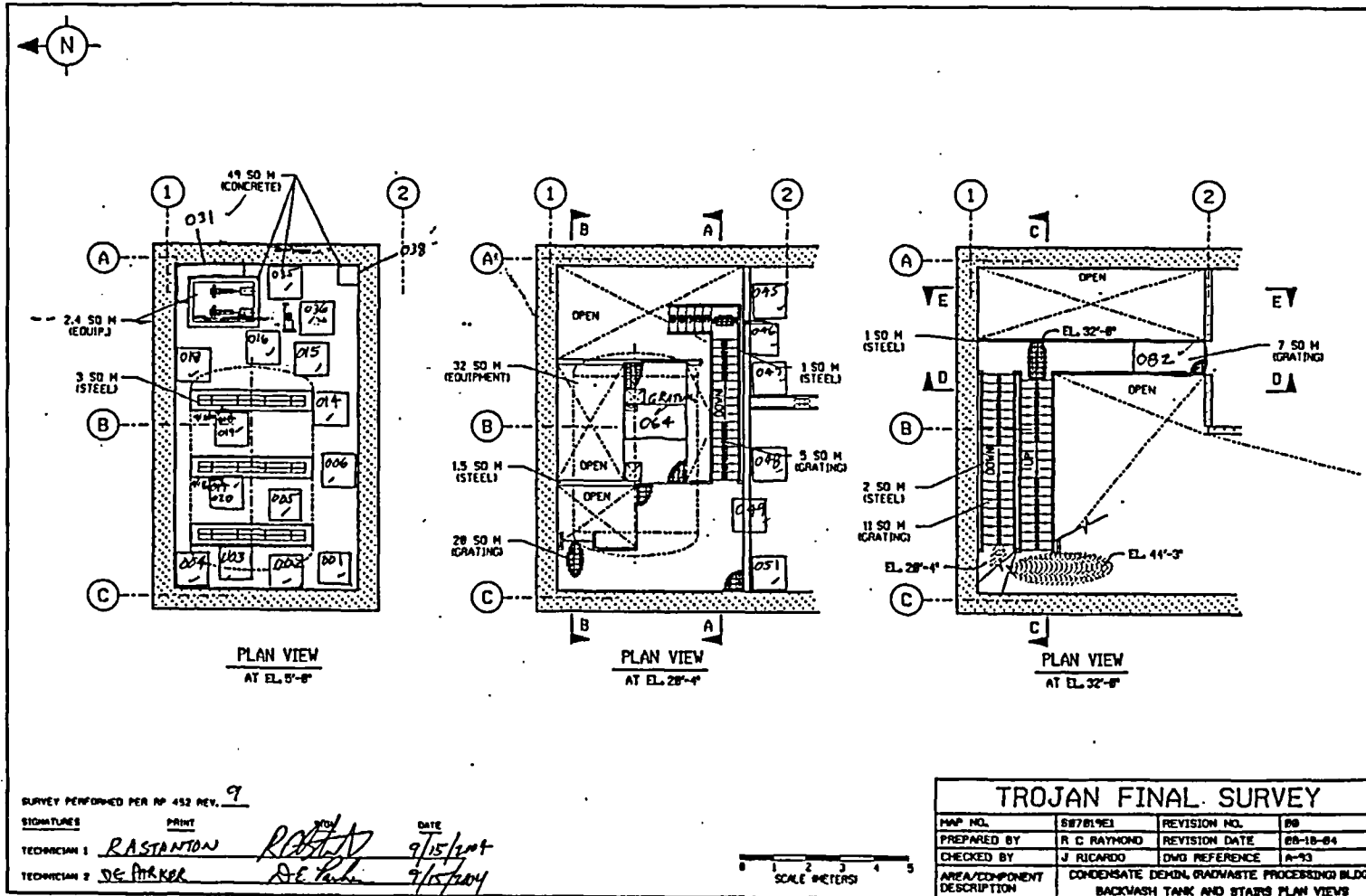
<u>Location</u>	<u>Value</u>
000052	1.233e+003
000053	1.281e+003
000054	1.262e+003
000055	1.076e+003
000056	1.312e+003
000057	1.095e+003
000058	1.167e+003
000059	1.091e+003
000060	1.246e+003
000061	1.193e+003
000062	1.225e+003
000063	1.260e+003
000064	1.042e+003
000065	1.094e+003
000066	1.274e+003
000067	1.174e+003
000068	1.227e+003
000069	1.319e+003
000070	1.192e+003
000071	1.212e+003
000072	1.273e+003
000073	1.348e+003
000074	1.357e+003
000075	1.175e+003
000076	9.107e+002
000077	1.188e+003
000078	1.216e+003
000079	1.256e+003
000080	8.472e+002
000081	1.379e+003
000082	1.081e+003
000083	1.080e+003
000084	9.199e+002
000085	8.711e+002
000086	8.555e+002
000087	8.214e+002
000088	1.034e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019E
 Survey Unit Name: Condensate Demineralizer Building
 19' Elevation - Backwash Tank Area

Classification: Class 2
 Size (m²): 585

Scan Measurement Locations Map

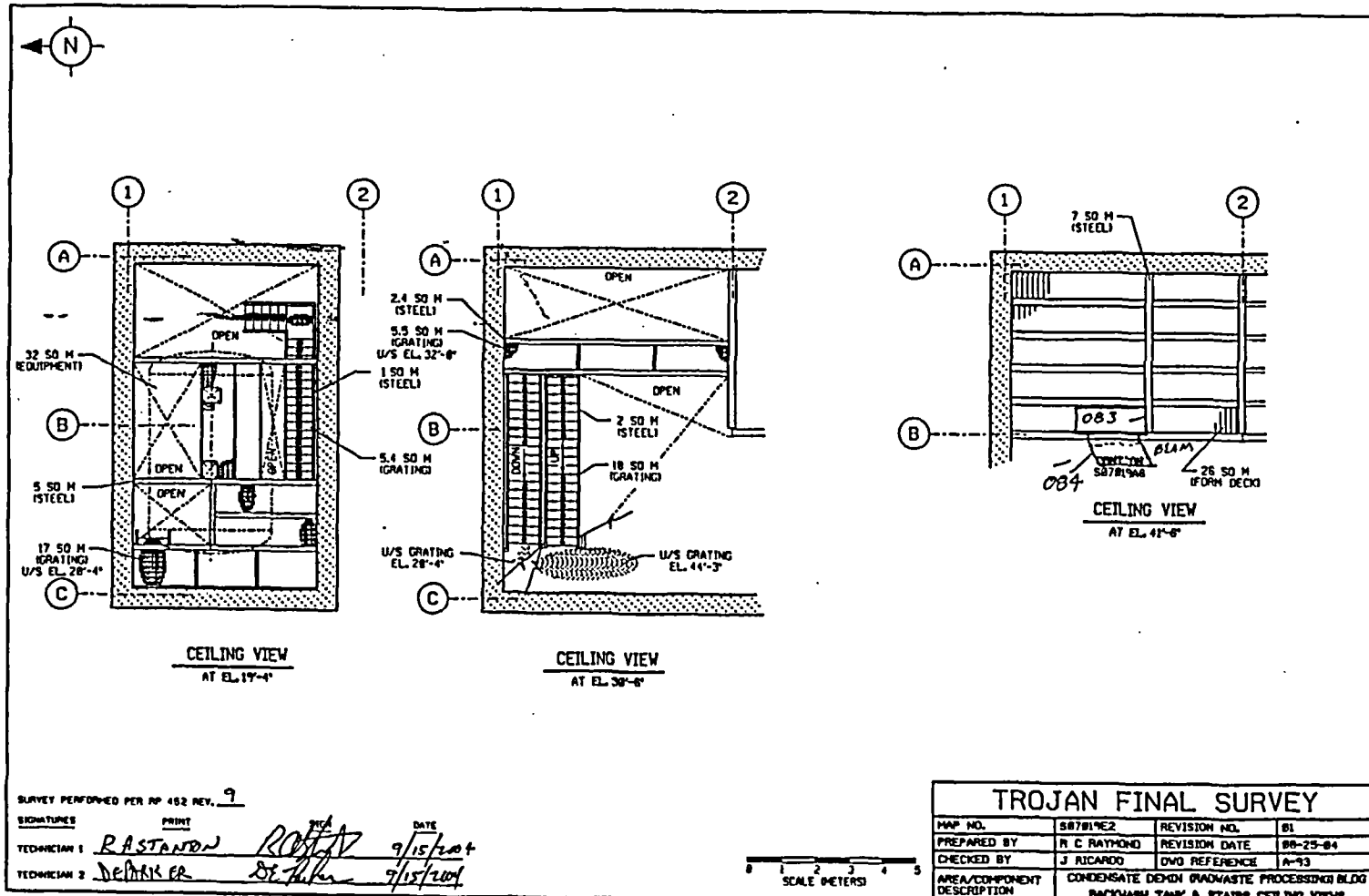


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019E
 Survey Unit Name: Condensate Demineralizer Building
 19' Elevation – Backwash Tank Area

Classification: Class 2
 Size (m²): 585

Scan Measurement Locations Map

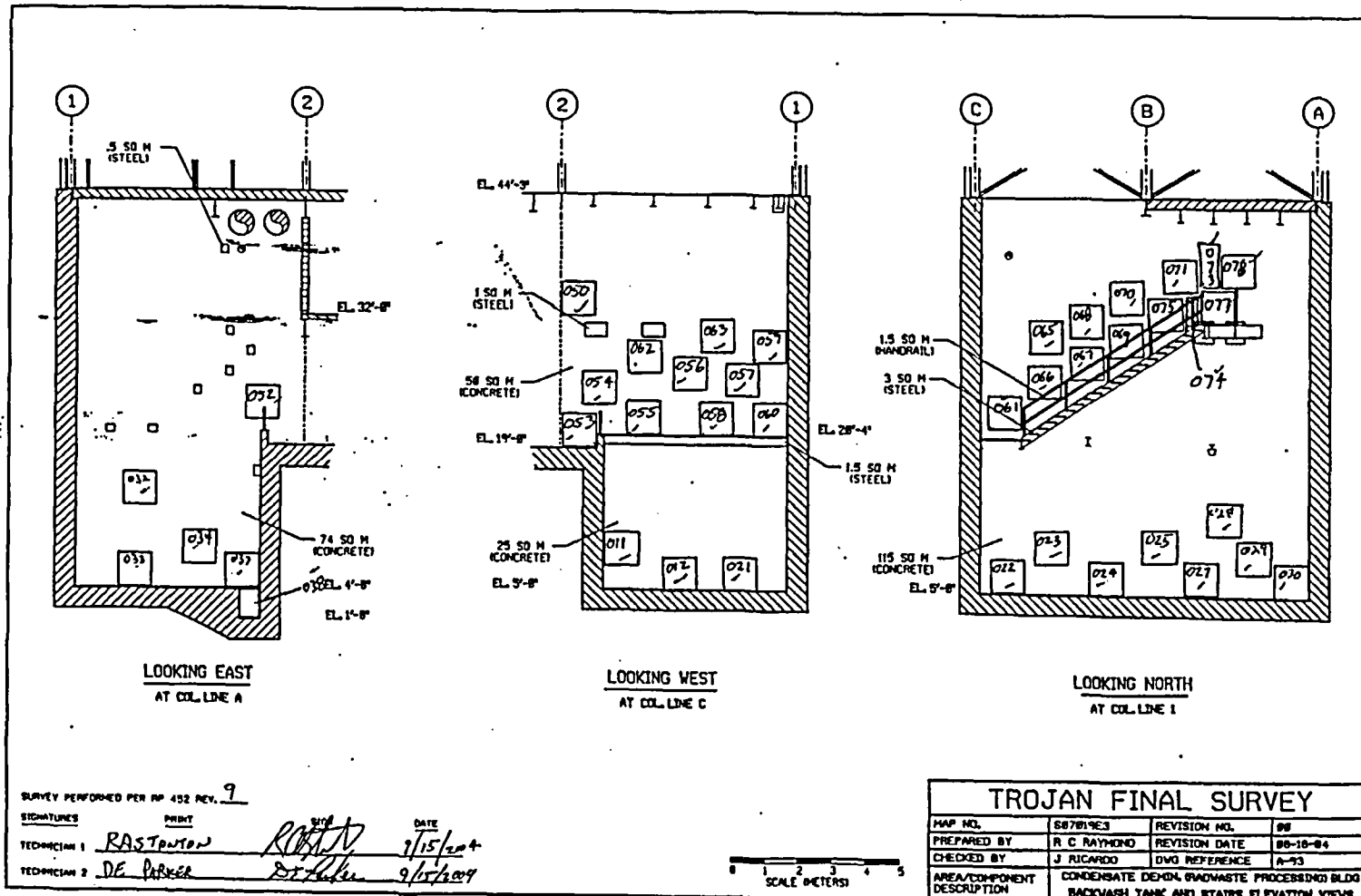


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019E
 Survey Unit Name: Condensate Demineralizer Building
 19' Elevation - Backwash Tank Area

Classification: Class 2
 Size (m²): 585

Scan Measurement Locations Map

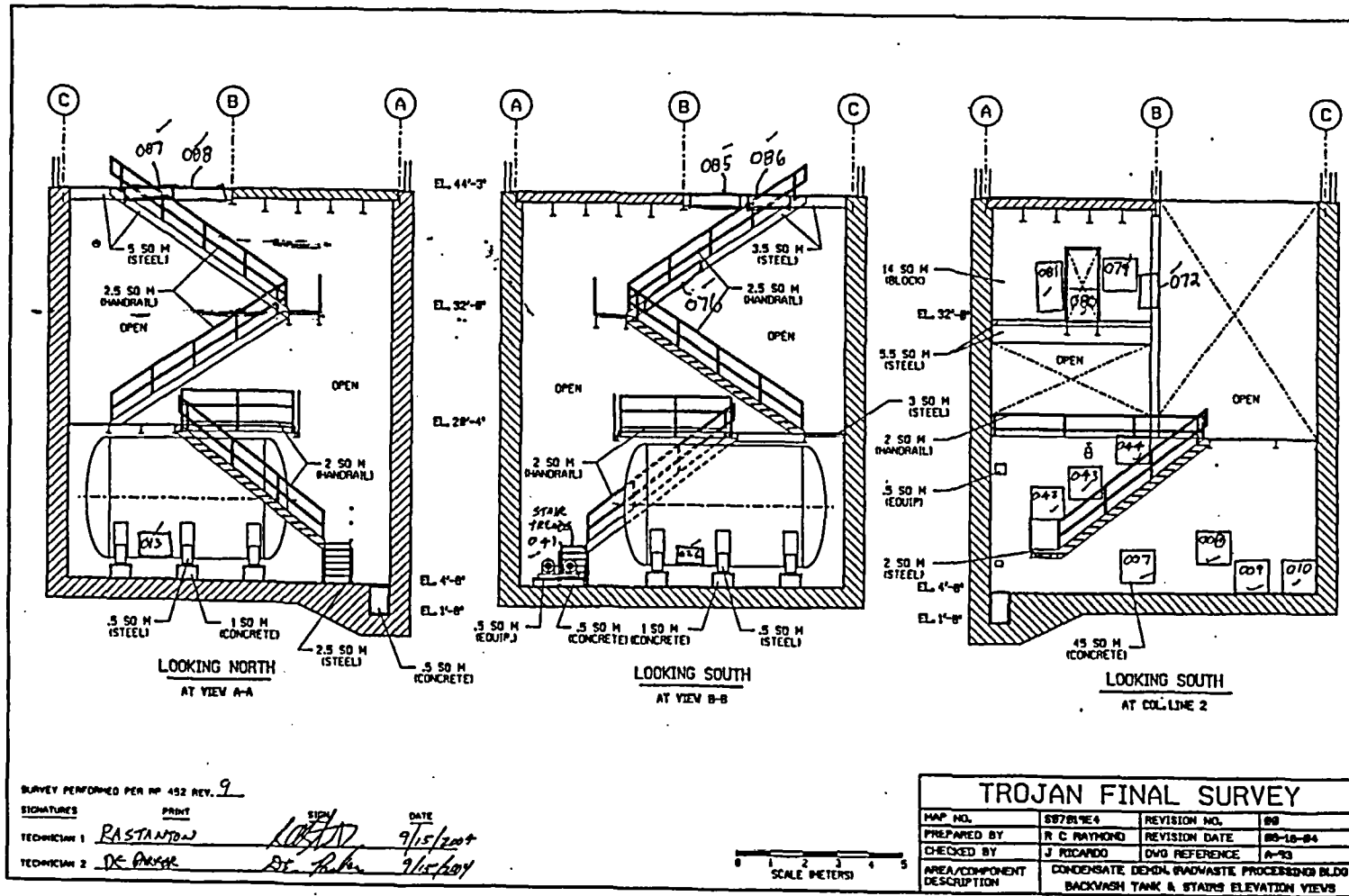


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019E
 Survey Unit Name: Condensate Demineralizer Building
 19' Elevation – Backwash Tank Area

Classification: Class 2
 Size (m²): 585

Scan Measurement Locations Map

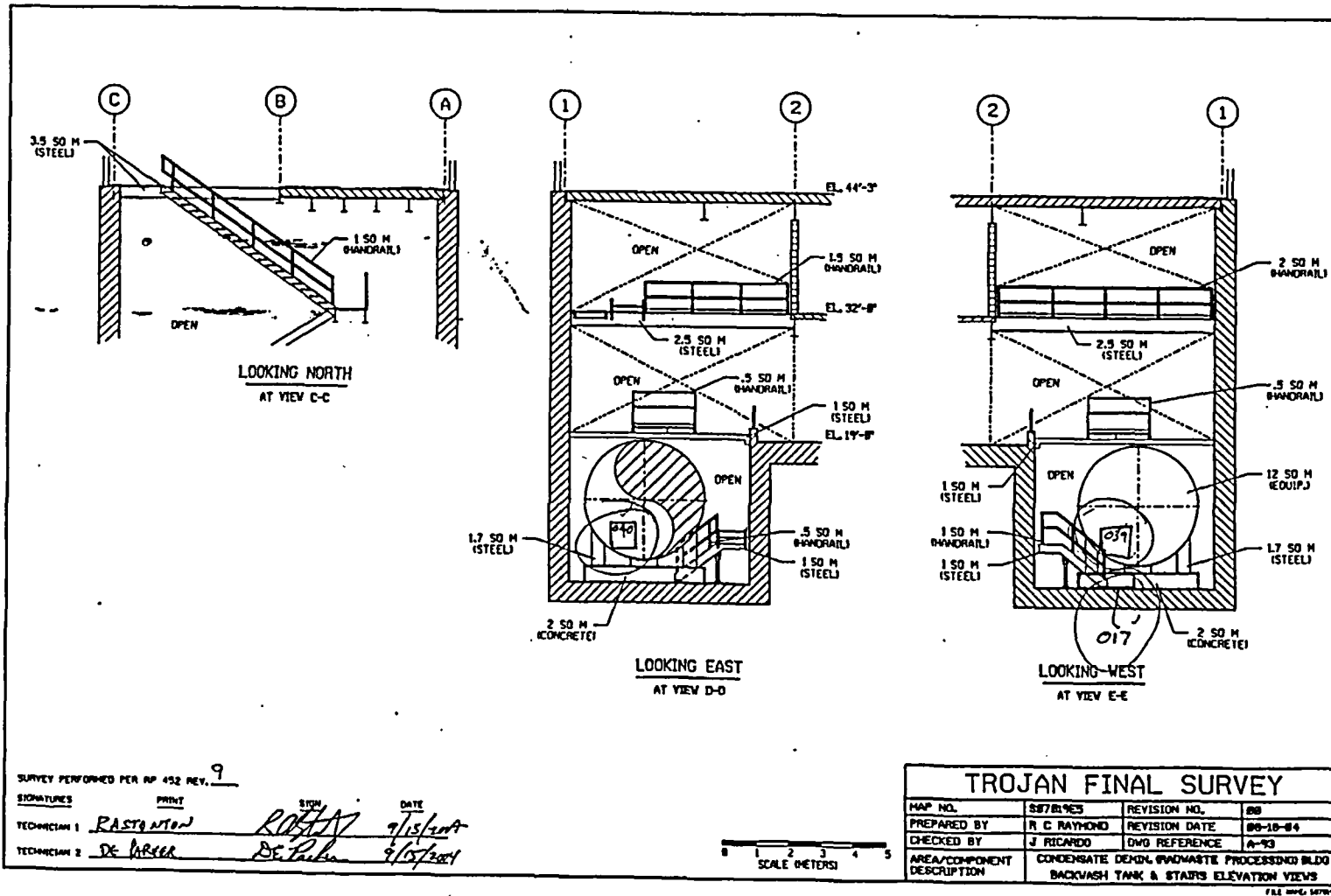


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07019E
 Survey Unit Name: Condensate Demineralizer Building
 19' Elevation - Backwash Tank Area

Classification: Class 2
 Size (m²): 585

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07025A
 Survey Unit Name: Condensate Demineralizer Building
 19' Elevation - Upper Walls and Ceiling

Classification: Class 2
 Size (m²): 653

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	98	DPM/100 CM ²	7.500e+003	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 8.840e+002
 Maximum Value : 3.095e+003
 Range : 2.211e+003
 Median : 1.330e+003
 Std. Deviation : 2.267e+002
 Mean : 1.348e+003
 95% UCL : 1.386e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	1.295e+003	000018	1.272e+003	000035	1.449e+003
000002	1.296e+003	000019	1.184e+003	000036	1.483e+003
000003	1.408e+003	000020	1.342e+003	000037	1.391e+003
000004	1.343e+003	000021	1.372e+003	000038	1.308e+003
000005	1.466e+003	000022	3.095e+003	000039	1.507e+003
000006	1.211e+003	000023	1.464e+003	000040	1.419e+003
000007	1.043e+003	000024	1.251e+003	000041	1.342e+003
000008	1.210e+003	000025	1.217e+003	000042	1.318e+003
000009	1.075e+003	000026	1.301e+003	000043	1.278e+003
000010	8.840e+002	000027	1.436e+003	000044	1.377e+003
000011	1.471e+003	000028	1.481e+003	000045	1.220e+003
000012	1.401e+003	000029	1.430e+003	000046	1.389e+003
000013	1.653e+003	000030	1.326e+003	000047	1.112e+003
000014	1.319e+003	000031	1.403e+003	000048	1.203e+003
000015	1.398e+003	000032	1.704e+003	000049	1.231e+003
000016	1.509e+003	000033	1.415e+003	000050	1.193e+003
000017	1.482e+003	000034	1.299e+003	000051	1.068e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07025A
 Survey Unit Name: Condensate Demineralizer Building
 19' Elevation – Upper Walls and Ceiling

Classification: Class 2
 Size (m²): 653

Scan Measurement Data

Location	Value
-----	-----
000052	1.487e+003
000053	1.228e+003
000054	1.247e+003
000055	1.232e+003
000056	1.181e+003
000057	1.325e+003
000058	1.315e+003
000059	1.333e+003
000060	1.268e+003
000061	1.234e+003
000062	1.465e+003
000063	1.262e+003
000064	1.246e+003
000065	9.439e+002
000066	1.231e+003
000067	1.233e+003
000068	1.335e+003
000069	1.361e+003
000070	1.454e+003
000071	1.313e+003
000072	1.321e+003
000073	1.420e+003
000074	1.410e+003
000075	1.261e+003
000076	1.237e+003
000077	1.280e+003
000078	1.278e+003
000079	1.446e+003
000080	1.344e+003
000081	1.470e+003
000082	1.437e+003
000083	1.304e+003
000084	9.835e+002
000085	1.404e+003
000086	1.338e+003
000087	1.385e+003
000088	1.321e+003
000089	1.487e+003
000090	1.487e+003
000091	1.496e+003
000092	1.407e+003
000093	1.471e+003
000094	1.606e+003
000095	1.300e+003
000096	1.146e+003
000097	1.119e+003
000098	1.469e+003

FINAL SURVEY RESULTS SUMMARY

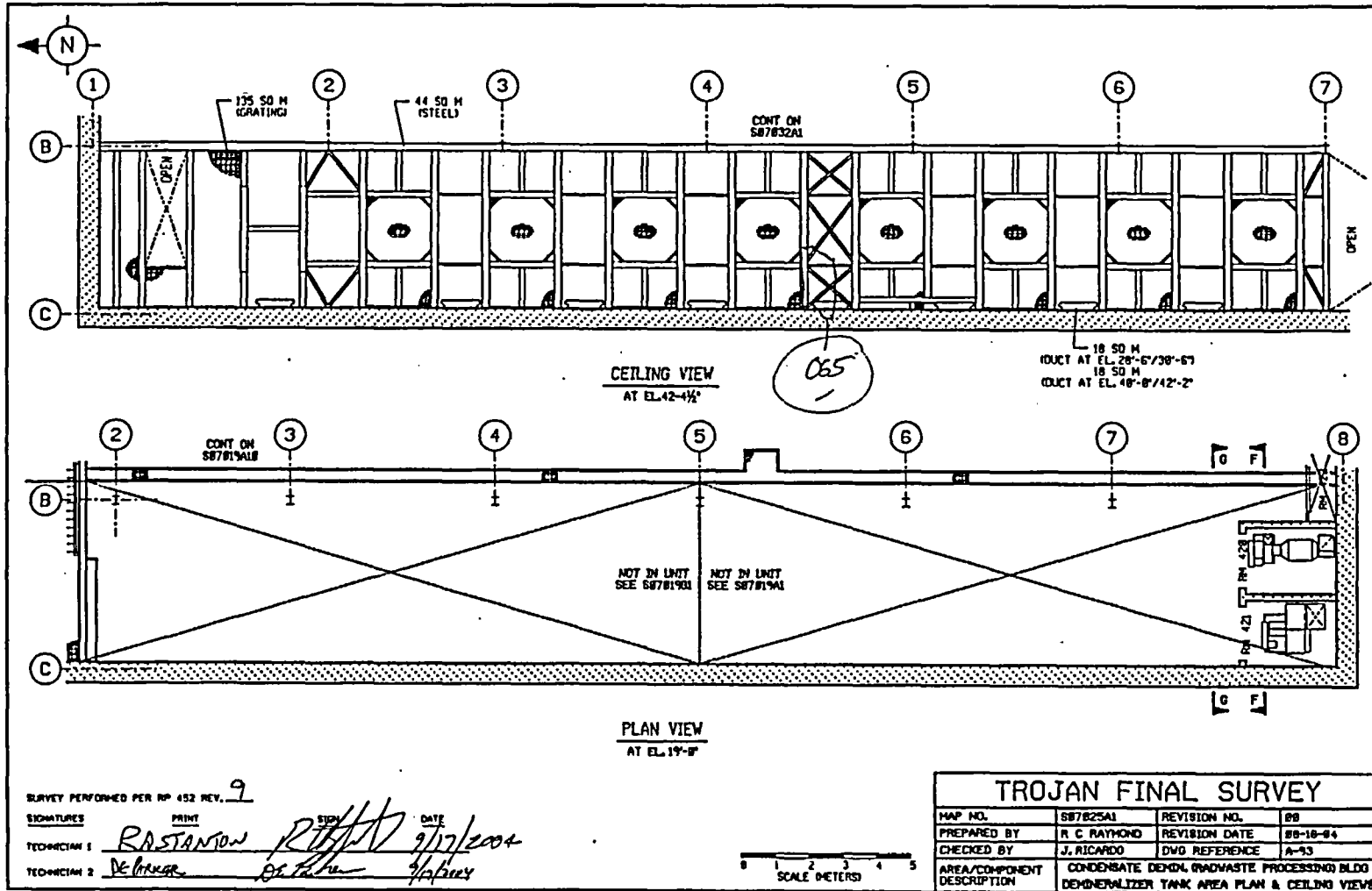
Survey Unit ID Code: S07025A

Survey Unit Name: Condensate Demineralizer Building 19' Elevation – Upper Walls and Ceiling

Classification: Class 2

Size (m²): 653

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

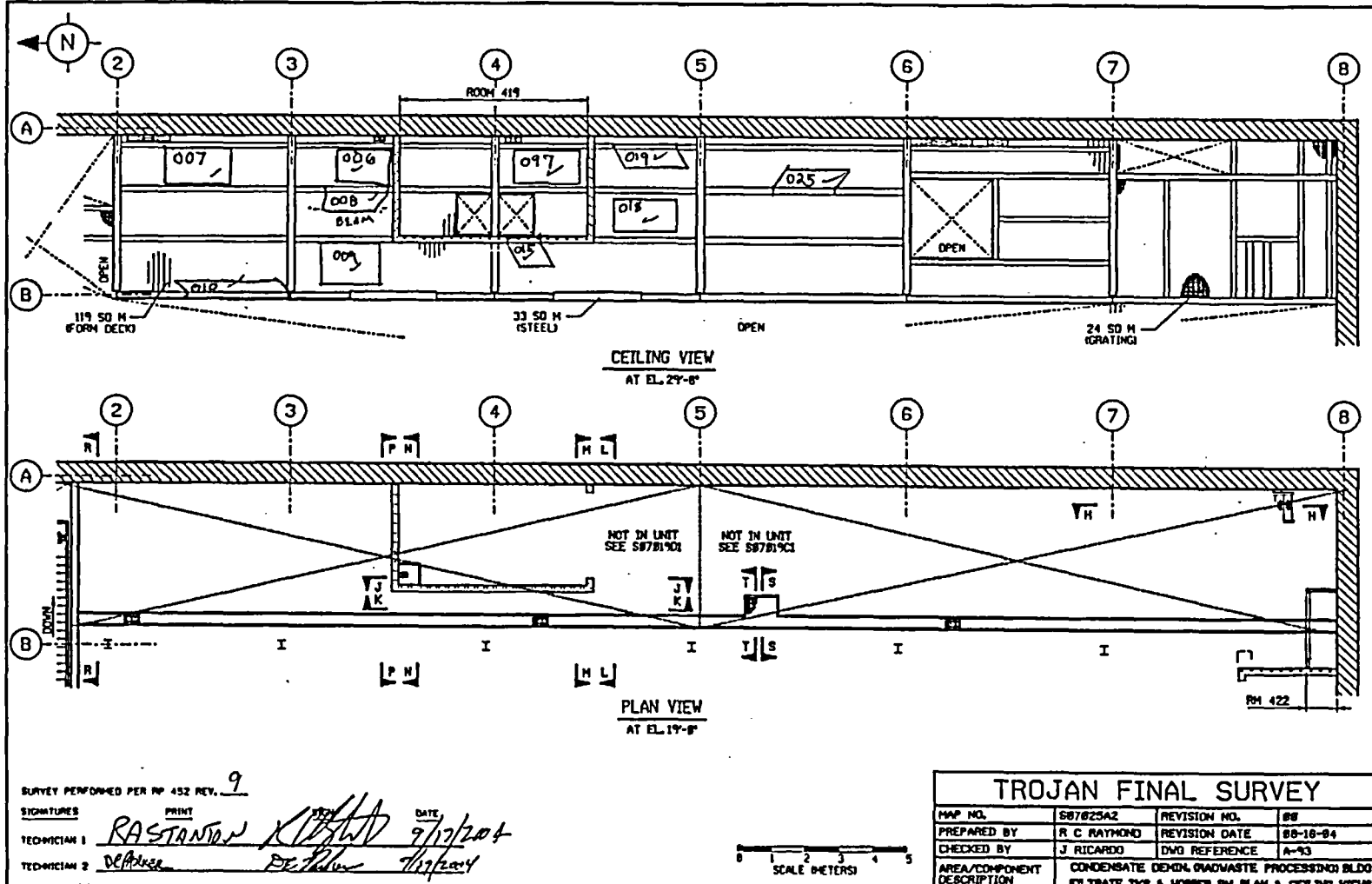
Survey Unit ID Code: S07025A

Survey Unit Name: Condensate Demineralizer Building 19' Elevation – Upper Walls and Ceiling

Classification: Class 2

Size (m²): 653

Scan Measurement Locations Map

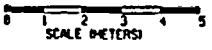


SURVEY PERFORMED PER RP 452 REV. 9

SIGNATURES PRINT DATE

TECHNICIAN 1 *RASTANOW* *R. Rastanow* 7/17/2004

TECHNICIAN 2 *DEANER* *D. Deaner* 7/17/2004



TROJAN FINAL SURVEY			
MAP NO.	S07025A2	REVISION NO.	00
PREPARED BY	R C RAYMOND	REVISION DATE	08-18-04
CHECKED BY	J RICARDO	DWG REFERENCE	A-93
AREA/COMPONENT DESCRIPTION	CONDENSATE DEMIN. WASTE PROCESSING BLDG FILTRATE TKS & HOPPER RM PLAN & CEILING VIEWS		

FILE NO. 001/007004

FINAL SURVEY RESULTS SUMMARY

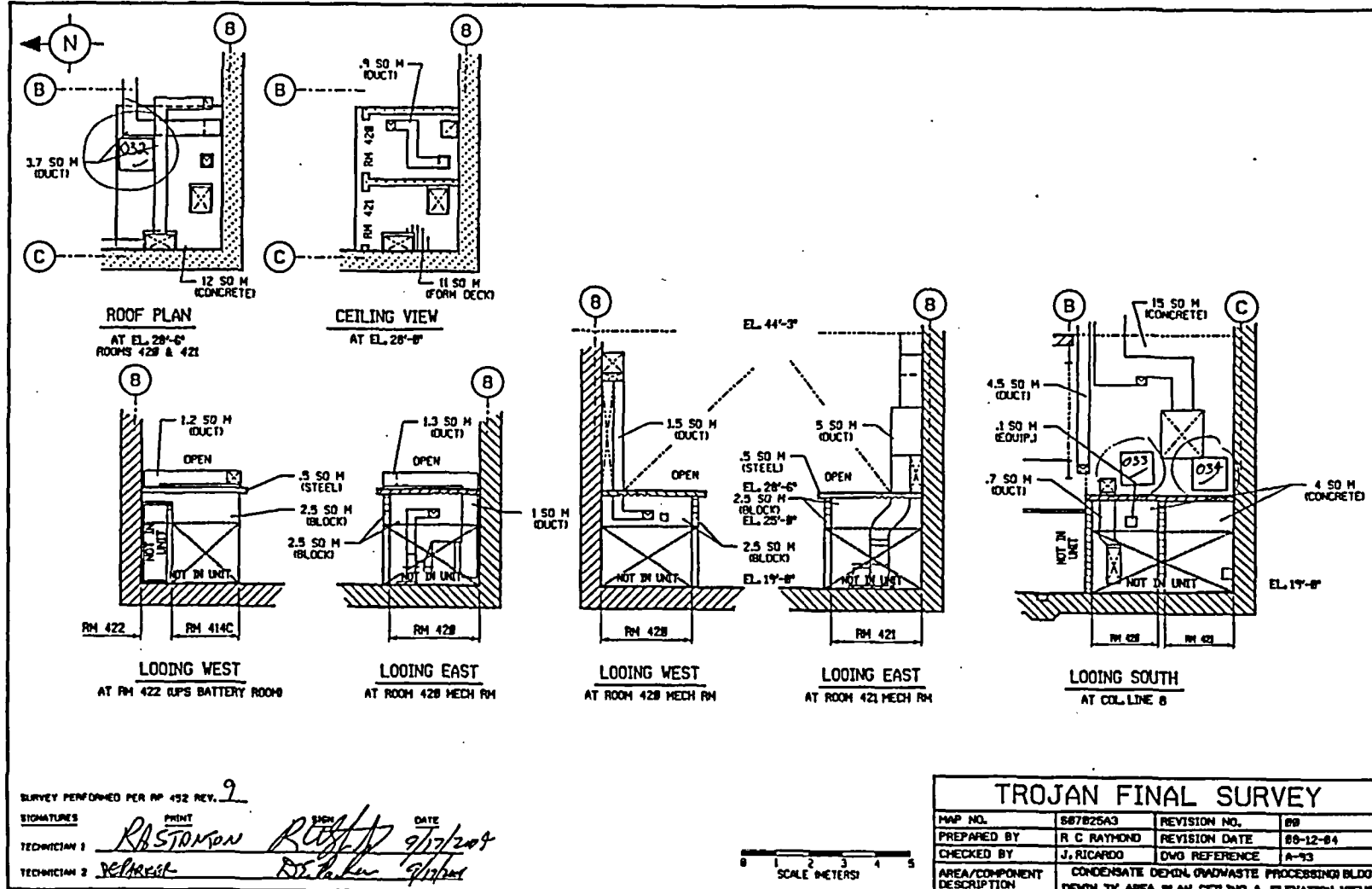
Survey Unit ID Code: S07025A

Survey Unit Name: Condensate Demineralizer Building 19' Elevation - Upper Walls and Ceiling

Classification: Class 2

Size (m²): 653

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

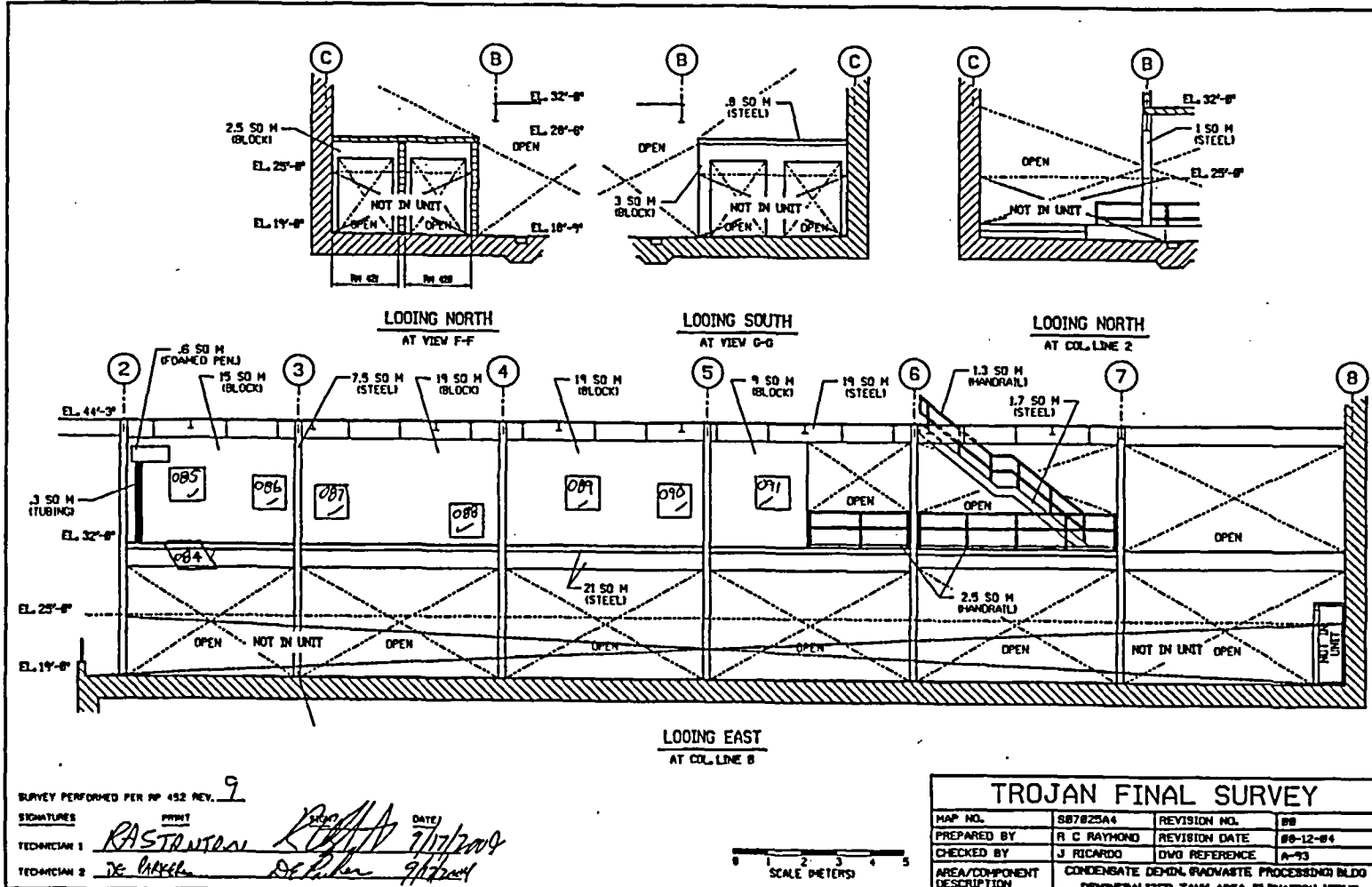
Survey Unit ID Code: S07025A

Survey Unit Name: Condensate Demineralizer Building 19' Elevation – Upper Walls and Ceiling

Classification: Class 2

Size (m²): 653

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

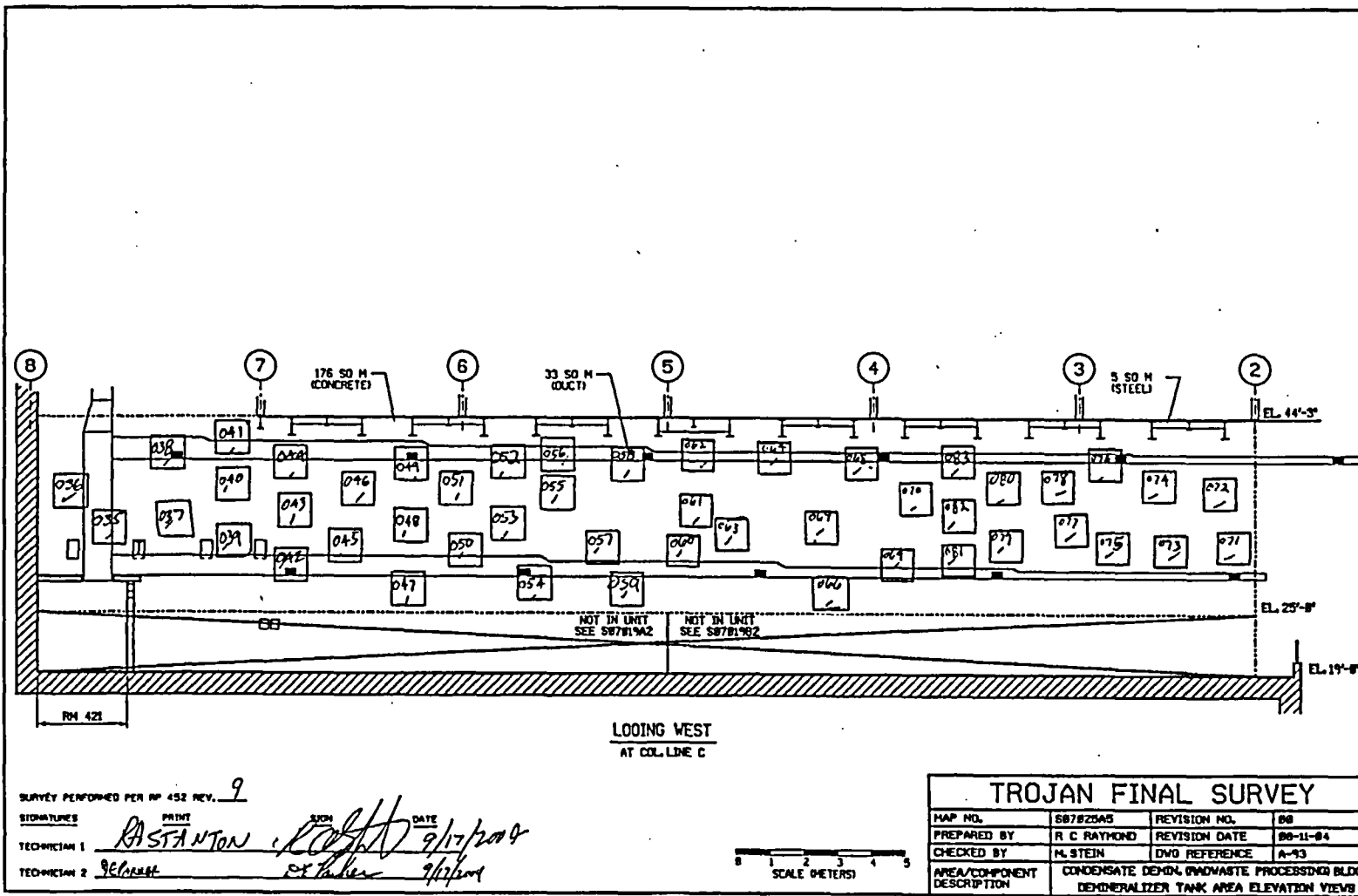
Survey Unit ID Code: S07025A

Survey Unit Name: Condensate Demineralizer Building 19' Elevation – Upper Walls and Ceiling

Classification: Class 2

Size (m²): 653

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

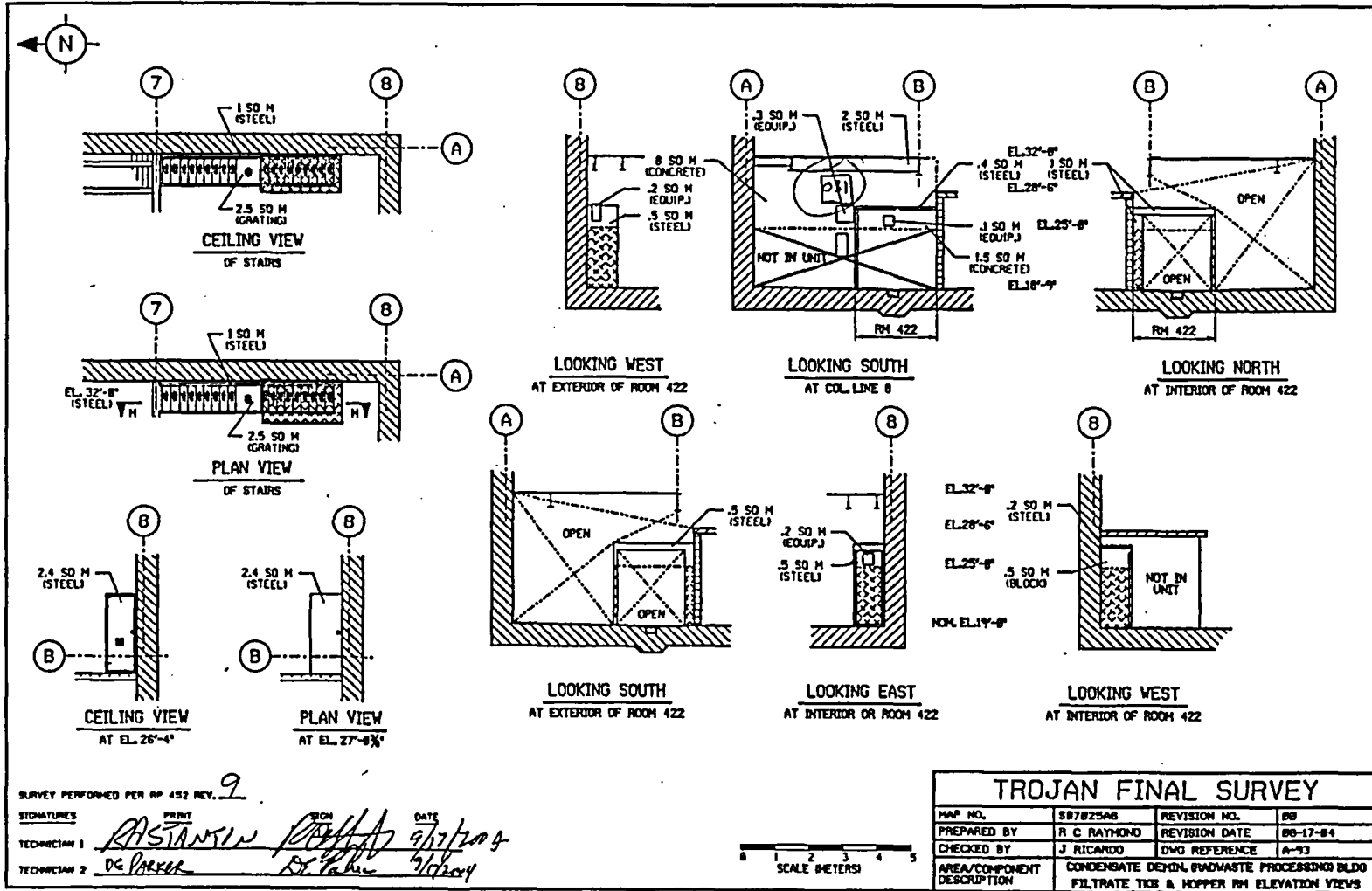
Survey Unit ID Code: S07025A

Survey Unit Name: Condensate Demineralizer Building 19' Elevation – Upper Walls and Ceiling

Classification: Class 2

Size (m²): 653

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

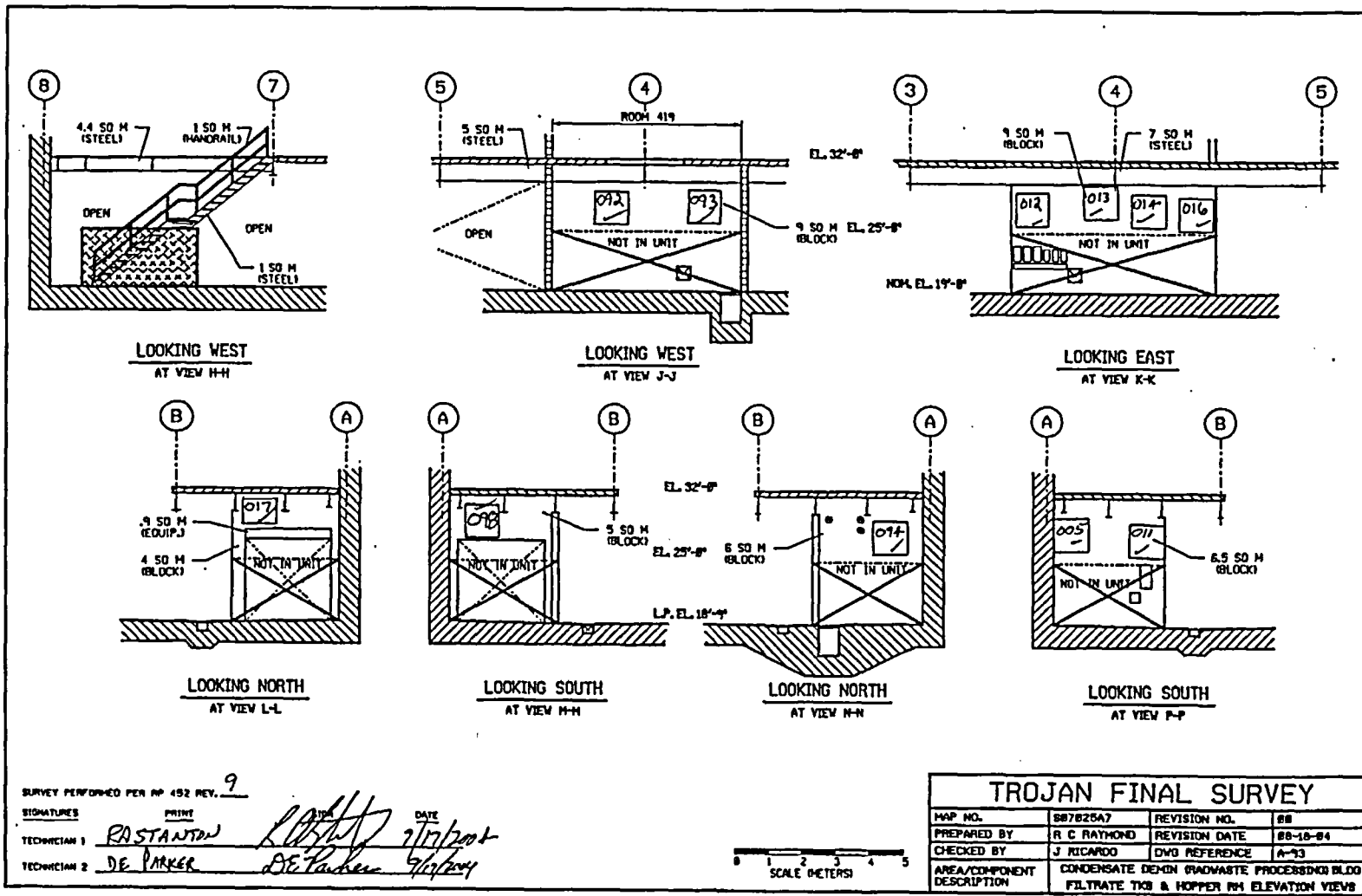
Survey Unit ID Code: S07025A

Survey Unit Name: Condensate Demineralizer Building 19' Elevation – Upper Walls and Ceiling

Classification: Class 2

Size (m²): 653

Scan Measurement Locations Map



SURVEY PERFORMED PER RP 492 REV. 9

SIGNATURES PRINT DATE

TECHNICIAN 1 RASTANTON [Signature] 2/17/2014

TECHNICIAN 2 DE PARKER [Signature] 2/17/2014

TROJAN FINAL SURVEY			
MAP NO.	887825A7	REVISION NO.	88
PREPARED BY	R C RAYMOND	REVISION DATE	88-10-84
CHECKED BY	J RICARDO	DWG REFERENCE	A-93
AREA/COMPONENT DESCRIPTION	CONDENSATE DEMON (WASTE) PROCESSING BLDG FILTRATE TRK & HOPPER RM ELEVATION VIEWS		

FILE NO: FHW/S07025A

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07032A

Classification: Class 2

Survey Unit Name: Condensate Demineralizer Building

Size (m²): 594

32' Elevation - Mid-Level Floor, Walls, and Ceiling

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	90	DPM/100 CM ²	7.500e+003	-	-

Statistical Quantities

Measurement Name:	
Minimum Value :	9.687e+002
Maximum Value :	2.901e+003
Range :	1.932e+003
Median :	2.461e+003
Std. Deviation :	6.712e+002
Mean :	2.082e+003
95% UCL :	2.200e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	1.476e+003	000018	1.154e+003	000035	1.113e+003
000002	1.400e+003	000019	1.183e+003	000036	2.089e+003
000003	1.498e+003	000020	1.130e+003	000037	2.060e+003
000004	1.490e+003	000021	1.087e+003	000038	2.264e+003
000005	1.618e+003	000022	1.107e+003	000039	2.424e+003
000006	1.595e+003	000023	9.687e+002	000040	2.360e+003
000007	1.635e+003	000024	1.274e+003	000041	2.486e+003
000008	1.428e+003	000025	1.193e+003	000042	2.480e+003
000009	1.506e+003	000026	1.165e+003	000043	2.712e+003
000010	1.605e+003	000027	1.177e+003	000044	2.524e+003
000011	1.581e+003	000028	1.223e+003	000045	2.889e+003
000012	1.530e+003	000029	1.062e+003	000046	2.660e+003
000013	1.332e+003	000030	1.094e+003	000047	2.621e+003
000014	1.448e+003	000031	1.128e+003	000048	2.586e+003
000015	1.085e+003	000032	1.122e+003	000049	2.620e+003
000016	1.146e+003	000033	1.131e+003	000050	2.489e+003
000017	1.115e+003	000034	9.816e+002	000051	2.390e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07032A

Classification: Class 2

Survey Unit Name: Condensate Demineralizer Building

Size (m²): 594

32' Elevation – Mid-Level Floor, Walls, and Ceiling

Scan Measurement Data

<u>Location</u>	<u>Value</u>
000052	2.460e+003
000053	2.469e+003
000054	2.819e+003
000055	2.601e+003
000056	2.510e+003
000057	2.503e+003
000058	2.653e+003
000059	2.370e+003
000060	2.544e+003
000061	2.647e+003
000062	2.527e+003
000063	2.569e+003
000064	2.675e+003
000065	2.601e+003
000066	2.707e+003
000067	2.690e+003
000068	2.875e+003
000069	2.524e+003
000070	2.669e+003
000071	2.660e+003
000072	2.801e+003
000073	2.749e+003
000074	2.638e+003
000075	2.723e+003
000076	2.632e+003
000077	2.547e+003
000078	2.776e+003
000079	2.587e+003
000080	2.380e+003
000081	2.786e+003
000082	2.329e+003
000083	2.681e+003
000084	2.826e+003
000085	2.804e+003
000086	2.461e+003
000087	2.669e+003
000088	2.699e+003
000089	2.859e+003
000090	2.901e+003

FINAL SURVEY RESULTS SUMMARY

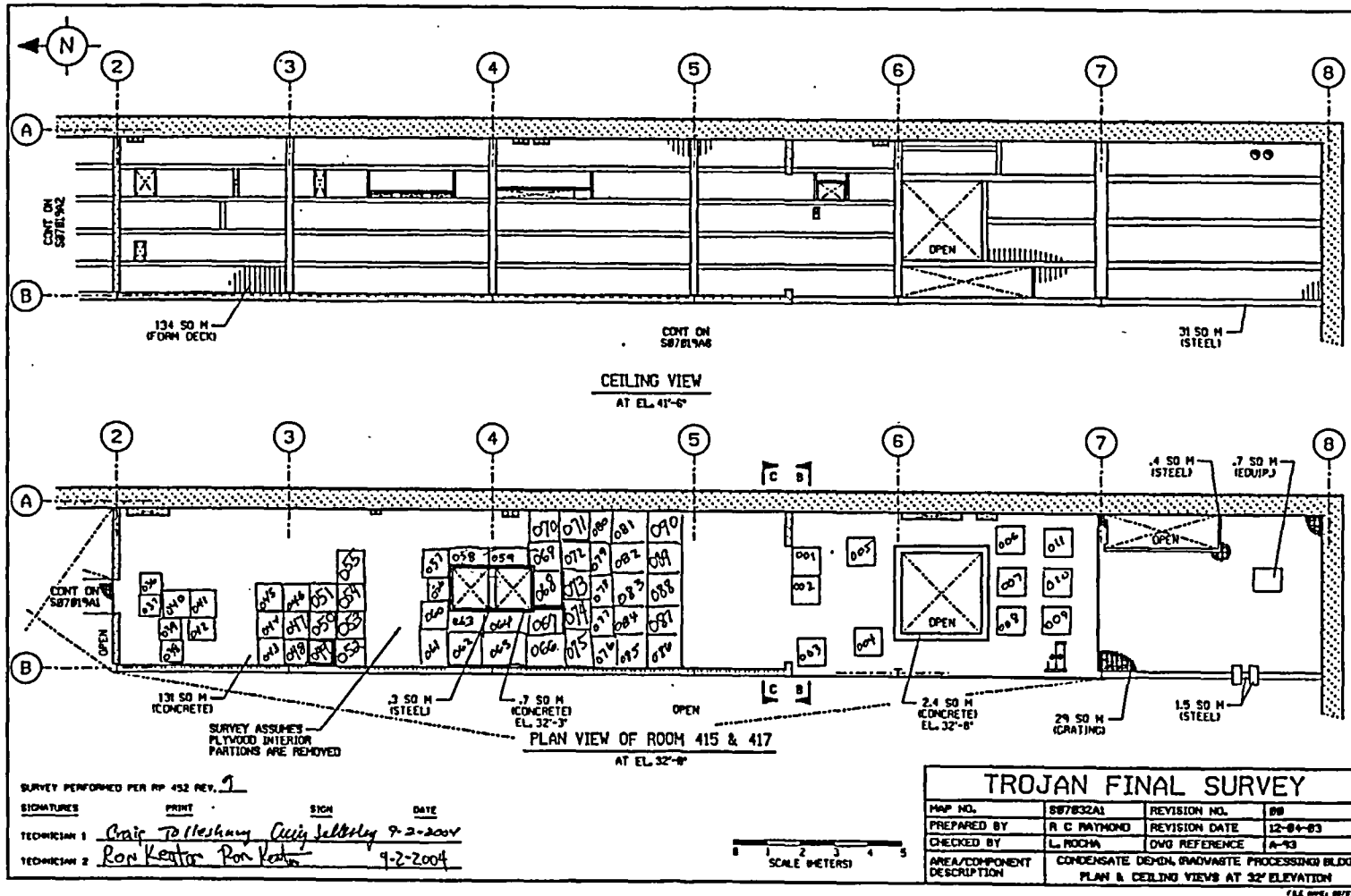
Survey Unit ID Code: S07032A

Survey Unit Name: Condensate Demineralizer Building 32' Elevation -
Mid-Level Floor, Walls, and Ceiling

Classification: Class 2

Size (m²): 594

Scan Measurement Locations Map



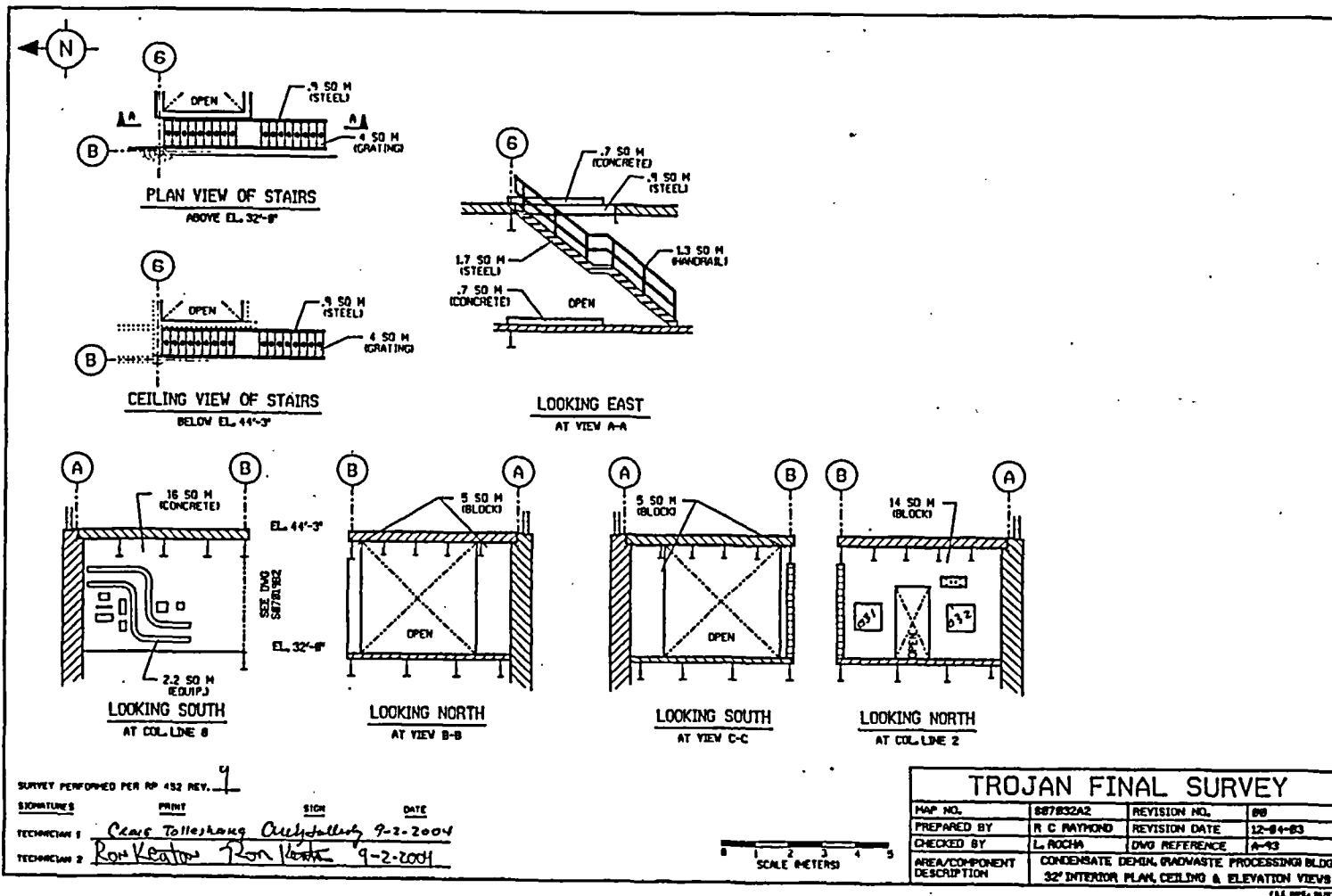
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07032A

Survey Unit Name: Condensate Demineralizer Building 32' Elevation –
Mid-Level Floor, Walls, and Ceiling

Classification: Class 2
Size (m²): 594

Scan Measurement Locations Map

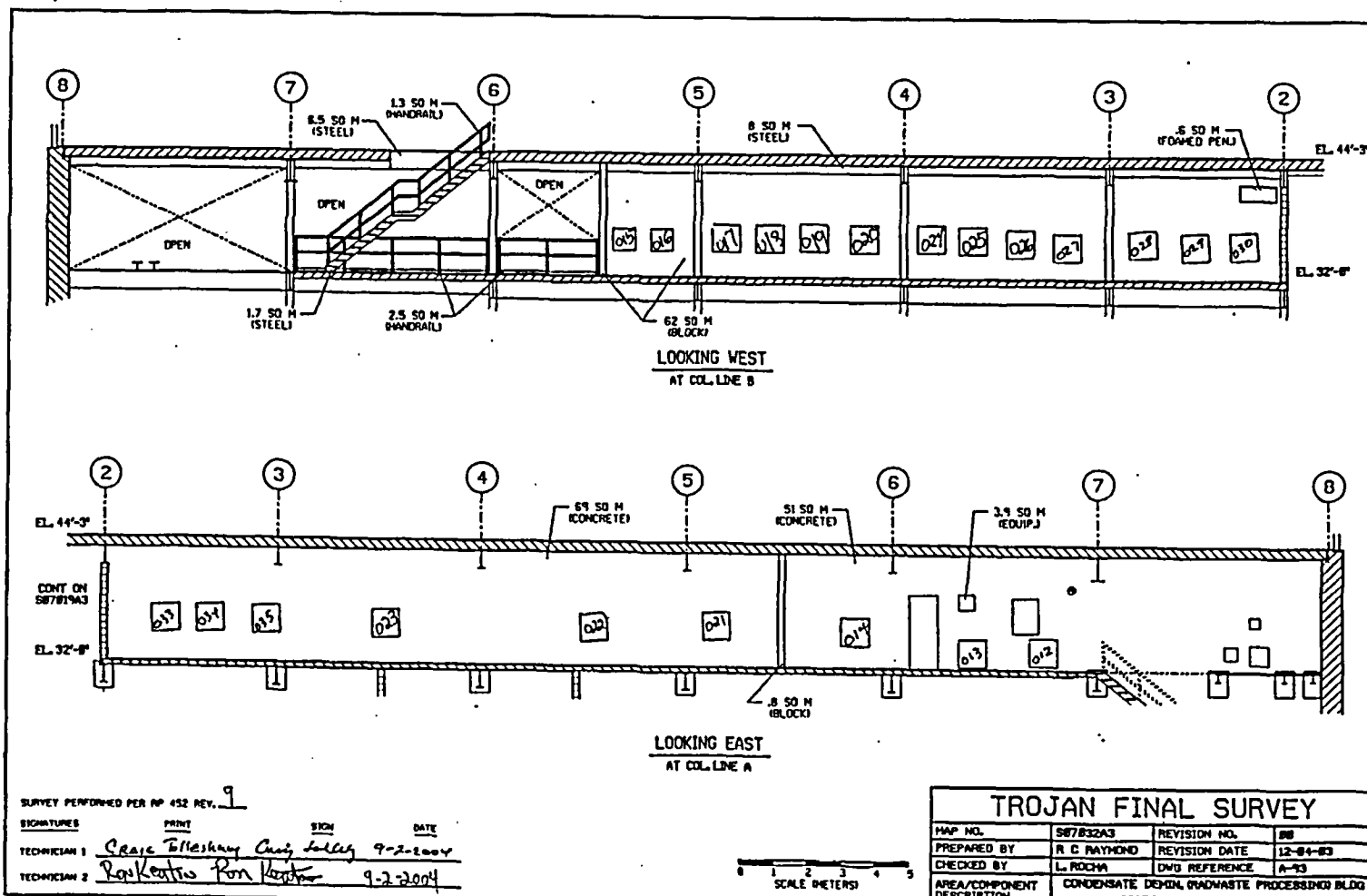


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07032A
 Survey Unit Name: Condensate Demineralizer Building 32' Elevation –
 Mid-Level Floor, Walls, and Ceiling

Classification: Class 2
 Size (m²): 594

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07045A

Classification: Class 2

Survey Unit Name: Condensate Demineralizer Building

Size (m²): 1,609

45' Elevation - Floor, Walls, and Ceiling

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	161	DPM/100 CM ²	7.500e+003	-	-

Statistical Quantities

Measurement Name:	
Minimum Value	: 7.717e+002
Maximum Value	: 2.505e+003
Range	: 1.733e+003
Median	: 1.672e+003
Std. Deviation	: 2.636e+002
Mean	: 1.623e+003
95% UCL	: 1.657e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	1.555e+003	000018	1.631e+003	000035	1.598e+003
000002	1.535e+003	000019	1.681e+003	000036	1.581e+003
000003	1.618e+003	000020	1.593e+003	000037	1.700e+003
000004	1.676e+003	000021	1.630e+003	000038	1.696e+003
000005	1.518e+003	000022	1.683e+003	000039	1.594e+003
000006	1.685e+003	000023	1.583e+003	000040	1.608e+003
000007	1.465e+003	000024	1.598e+003	000041	1.675e+003
000008	1.562e+003	000025	1.561e+003	000042	1.679e+003
000009	1.668e+003	000026	1.396e+003	000043	1.729e+003
000010	1.572e+003	000027	1.714e+003	000044	1.646e+003
000011	1.498e+003	000028	1.652e+003	000045	1.719e+003
000012	1.624e+003	000029	1.761e+003	000046	1.728e+003
000013	1.697e+003	000030	1.625e+003	000047	1.700e+003
000014	1.630e+003	000031	1.754e+003	000048	1.705e+003
000015	1.596e+003	000032	1.485e+003	000049	1.524e+003
000016	1.680e+003	000033	1.752e+003	000050	1.601e+003
000017	1.790e+003	000034	1.811e+003	000051	1.602e+003

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07045A

Classification: Class 2

Survey Unit Name: Condensate Demineralizer Building

Size (m²): 1,609

45' Elevation – Floor, Walls, and Ceiling

Scan Measurement Data

<u>Location</u>	<u>Value</u>	<u>Location</u>	<u>Value</u>	<u>Location</u>	<u>Value</u>
000052	1.728e+003	000099	1.807e+003	000146	1.209e+003
000053	1.792e+003	000100	1.848e+003	000147	1.223e+003
000054	1.775e+003	000101	1.384e+003	000148	1.339e+003
000055	1.750e+003	000102	1.539e+003	000149	1.169e+003
000056	1.672e+003	000103	1.578e+003	000150	1.255e+003
000057	1.655e+003	000104	1.619e+003	000151	1.424e+003
000058	1.747e+003	000105	1.619e+003	000152	1.318e+003
000059	1.811e+003	000106	1.799e+003	000153	1.205e+003
000060	1.857e+003	000107	1.727e+003	000154	1.244e+003
000061	1.700e+003	000108	1.610e+003	000155	1.295e+003
000062	1.832e+003	000109	1.763e+003	000156	1.296e+003
000063	1.879e+003	000110	1.747e+003	000157	1.157e+003
000064	1.825e+003	000111	1.708e+003	000158	1.226e+003
000065	1.717e+003	000112	2.001e+003	000159	8.610e+002
000066	1.779e+003	000113	2.090e+003	000160	1.195e+003
000067	1.782e+003	000114	1.828e+003	000161	1.250e+003
000068	1.778e+003	000115	1.725e+003		
000069	1.695e+003	000116	1.937e+003		
000070	1.696e+003	000117	1.790e+003		
000071	1.697e+003	000118	1.843e+003		
000072	1.615e+003	000119	1.943e+003		
000073	1.624e+003	000120	2.055e+003		
000074	1.798e+003	000121	1.952e+003		
000075	1.756e+003	000122	2.258e+003		
000076	1.642e+003	000123	2.505e+003		
000077	1.857e+003	000124	2.364e+003		
000078	1.829e+003	000125	1.642e+003		
000079	1.770e+003	000126	1.737e+003		
000080	1.830e+003	000127	1.218e+003		
000081	1.535e+003	000128	1.241e+003		
000082	1.801e+003	000129	1.642e+003		
000083	1.959e+003	000130	1.613e+003		
000084	1.697e+003	000131	1.560e+003		
000085	1.854e+003	000132	1.257e+003		
000086	1.879e+003	000133	1.261e+003		
000087	1.872e+003	000134	1.363e+003		
000088	1.864e+003	000135	1.345e+003		
000089	1.672e+003	000136	9.291e+002		
000090	1.825e+003	000137	1.158e+003		
000091	1.617e+003	000138	1.284e+003		
000092	1.692e+003	000139	9.448e+002		
000093	1.733e+003	000140	7.717e+002		
000094	1.644e+003	000141	1.173e+003		
000095	1.904e+003	000142	1.328e+003		
000096	1.994e+003	000143	1.306e+003		
000097	1.927e+003	000144	1.047e+003		
000098	1.813e+003	000145	1.196e+003		

FINAL SURVEY RESULTS SUMMARY

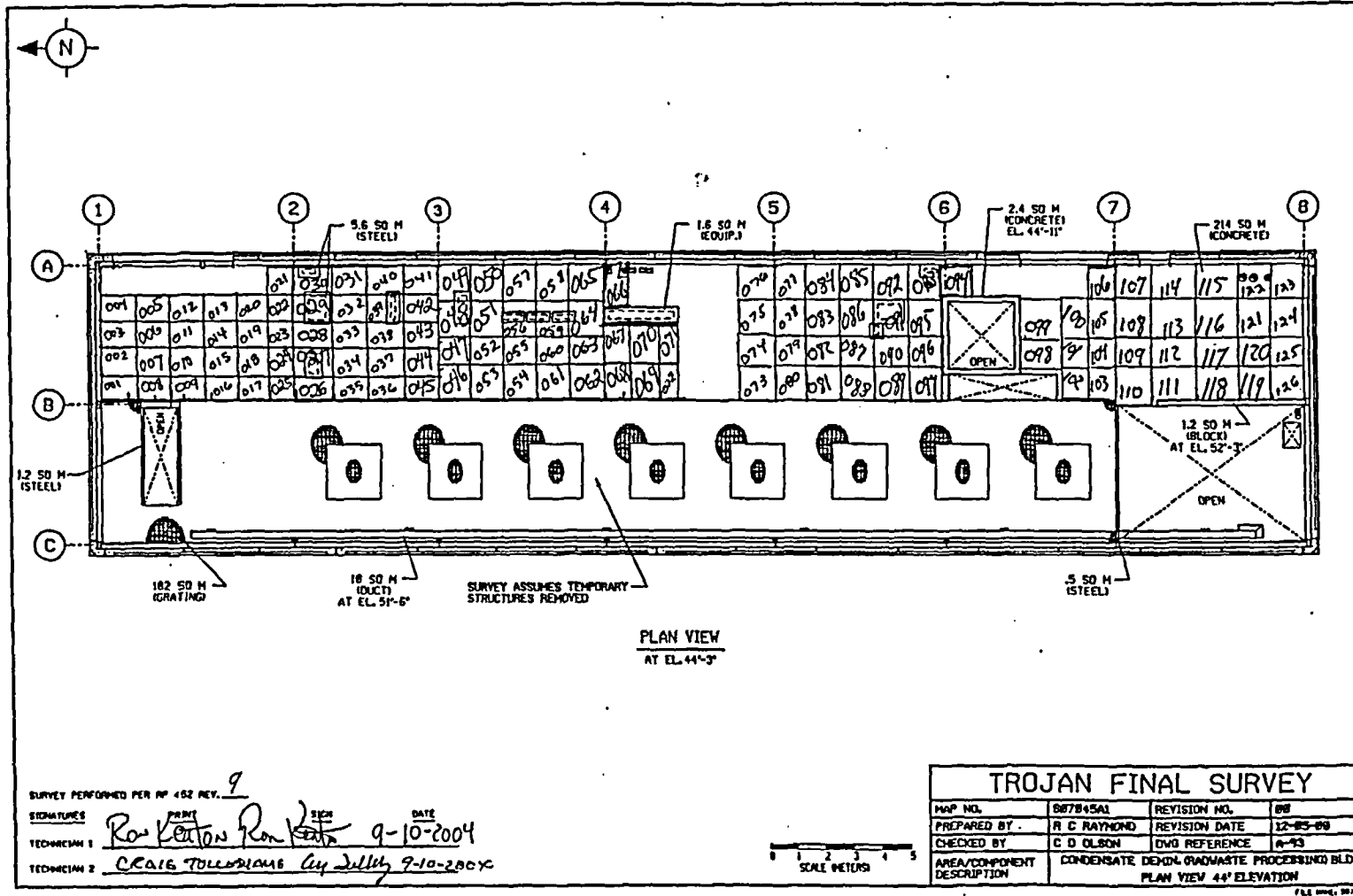
Survey Unit ID Code: S07045A

Survey Unit Name: Condensate Demineralizer Building 45' Elevation - Floor, Walls, and Ceiling

Classification: Class 2

Size (m²): 1,609

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

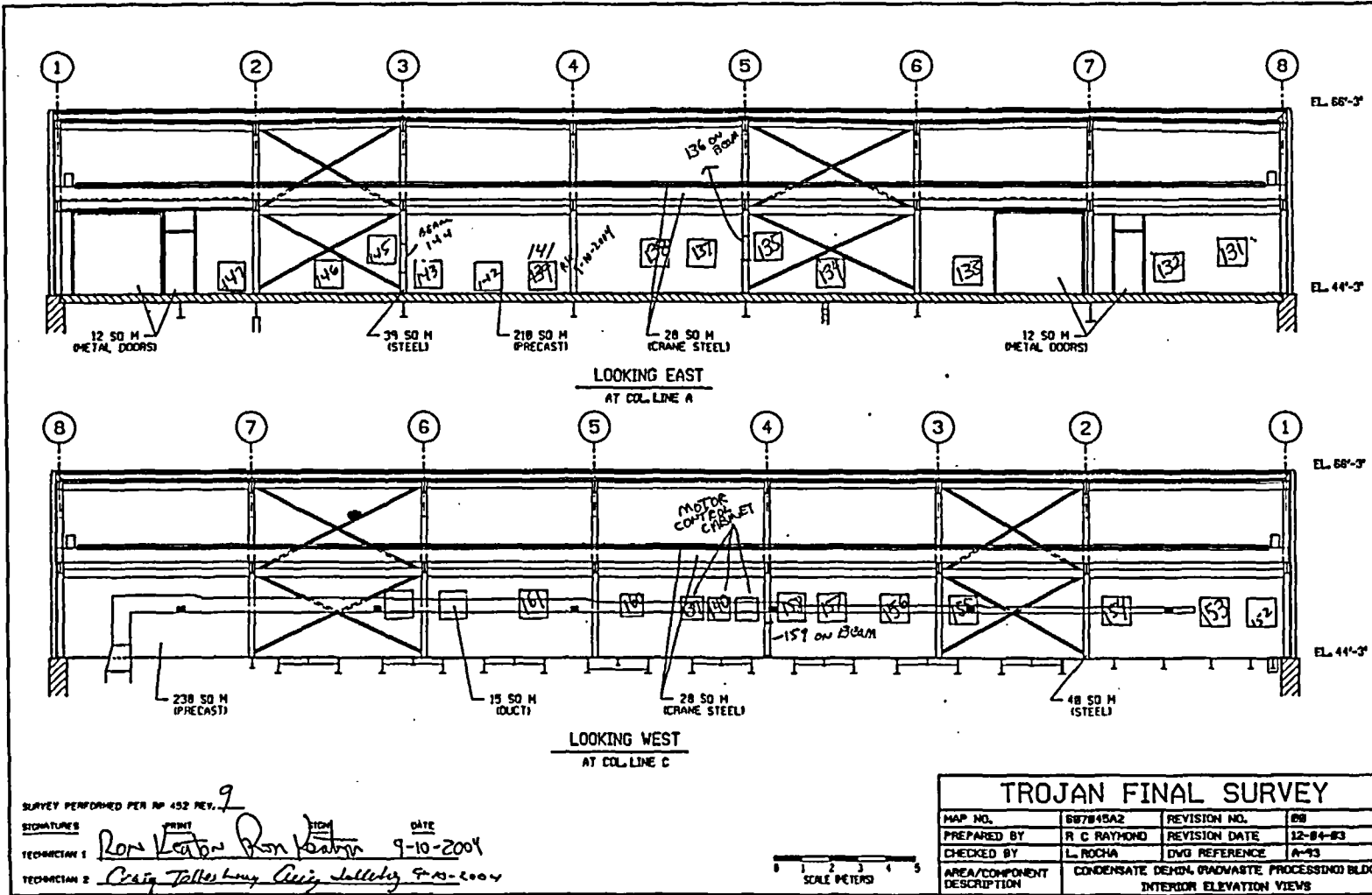
Survey Unit ID Code: S07045A

Survey Unit Name: Condensate Demineralizer Building 45' Elevation - Floor, Walls, and Ceiling

Classification: Class 2

Size (m²): 1,609

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

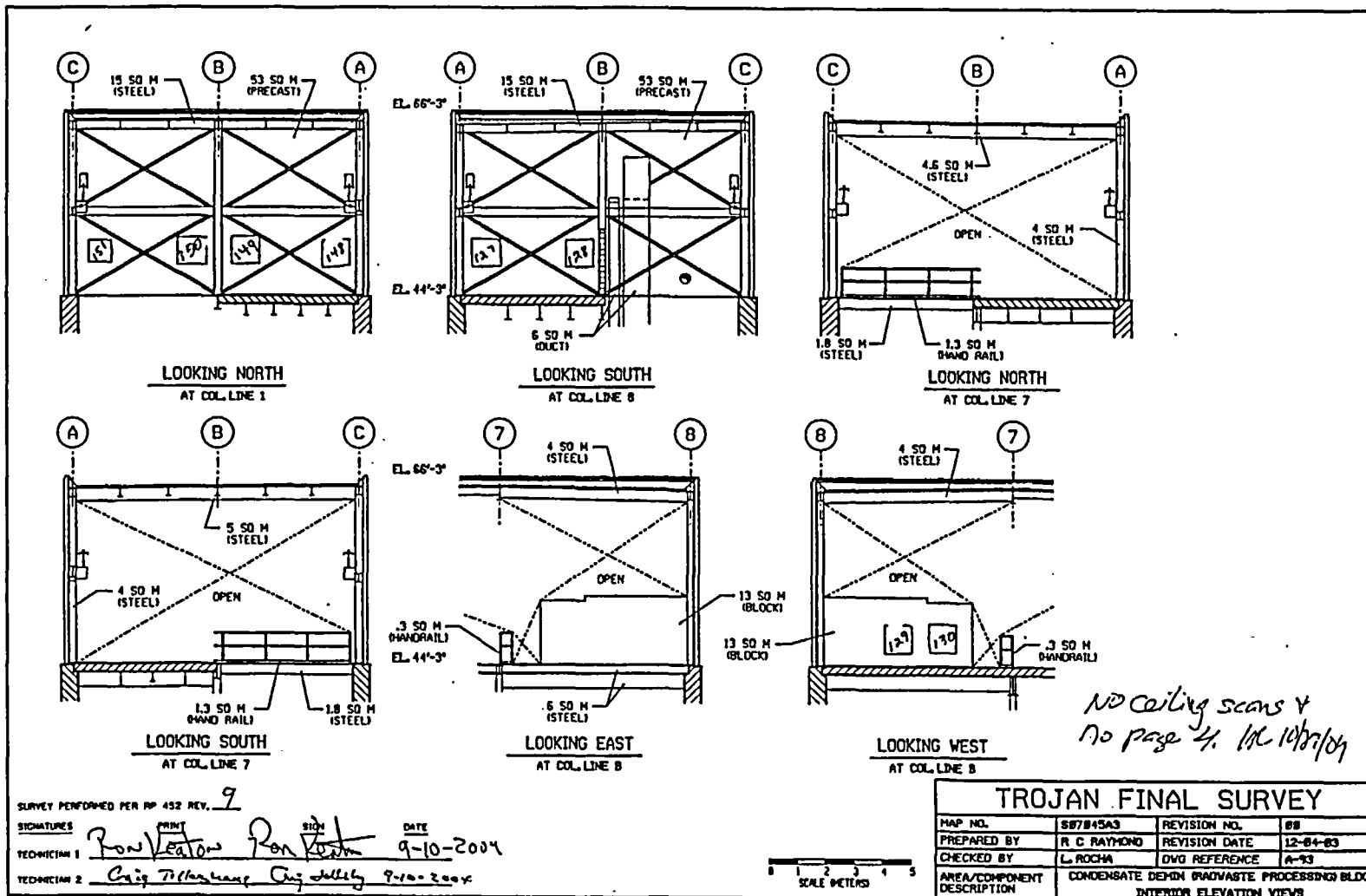
Survey Unit ID Code: S07045A

Survey Unit Name: Condensate Demineralizer Building 45' Elevation - Floor, Walls, and Ceiling

Classification: Class 2

Size (m²): 1,609

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S07045B
 Survey Unit Name: Condensate Demineralizer Building
 45' Elevation - Crane and Trolley Rails

Classification: Class 1
 Size (m²): 33

Scan Measurement Data

Measurement Type Code	# Of Meas.	Measurement Unit	DCGL	SGN	WRS
8	46	DPM/100 CM ²	7.500e+003	-	-

Statistical Quantities

Measurement Name:
 Minimum Value : 8.330e+002
 Maximum Value : 4.311e+003
 Range : 3.478e+003
 Median : 1.186e+003
 Std. Deviation : 5.255e+002
 Mean : 1.261e+003
 95% UCL : 1.391e+003

Measurement Values

Location	Value	Location	Value	Location	Value
000001	8.547e+002	000018	1.166e+003	000035	1.408e+003
000002	8.584e+002	000019	1.215e+003	000036	1.412e+003
000003	8.929e+002	000020	1.187e+003	000037	1.164e+003
000004	8.330e+002	000021	1.122e+003	000038	1.302e+003
000005	9.119e+002	000022	1.184e+003	000039	1.445e+003
000006	9.727e+002	000023	1.216e+003	000040	1.279e+003
000007	8.838e+002	000024	1.104e+003	000041	1.076e+003
000008	9.682e+002	000025	1.323e+003	000042	2.299e+003
000009	9.092e+002	000026	1.082e+003	000043	1.130e+003
000010	1.170e+003	000027	1.382e+003	000044	1.208e+003
000011	1.807e+003	000028	1.276e+003	000045	1.042e+003
000012	4.311e+003	000029	1.247e+003	000046	1.017e+003
000013	1.072e+003	000030	1.199e+003		
000014	1.102e+003	000031	1.327e+003		
000015	1.090e+003	000032	1.349e+003		
000016	1.232e+003	000033	1.501e+003		
000017	1.193e+003	000034	1.265e+003		

FINAL SURVEY RESULTS SUMMARY

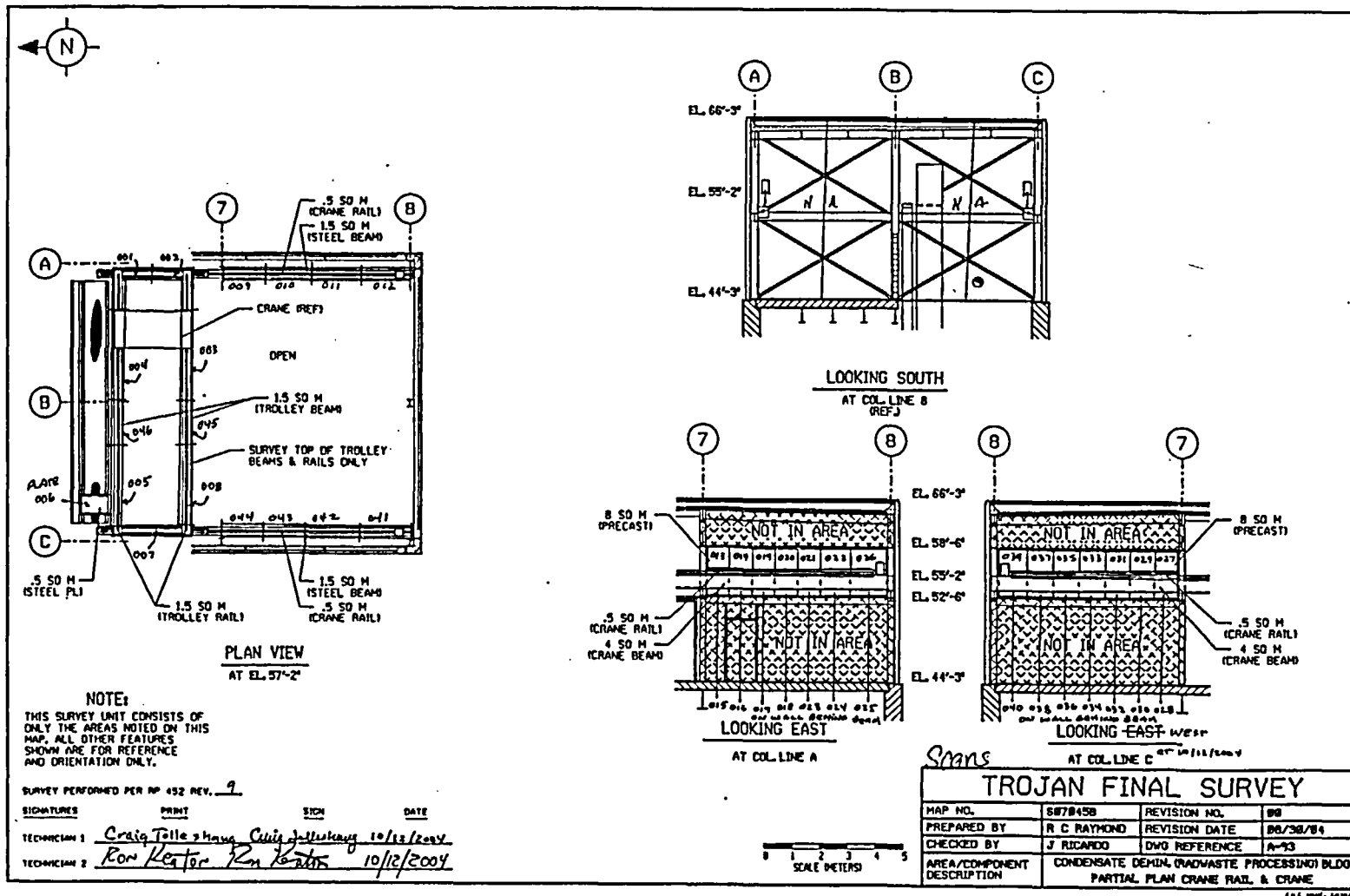
Survey Unit ID Code: S07045B

Survey Unit Name: Condensate Demineralizer Building 45' Elevation – Crane and Trolley Rails

Classification: Class 1

Size (m²): 33

Scan Measurement Locations Map



SUPPLEMENT TO APPENDIX E

SURVEY UNIT SUMMARY REPORTS – SITE GROUNDS

<u>Survey Unit ID Code</u>	<u>Page(s)</u>
G51038A.....	E-2 and E-3
G51045A.....	E-4 through E-7
G51045B.....	E-8 through E-13
G51045C.....	E-14 and E-15
G51045D.....	E-16 and E-17
G51045E.....	E-18 through E-19
G51045F.....	E-20 and E-21
G52025A.....	E-22

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51038A
 Survey Unit Name: Concrete Block Storage Area

Classification: Class 2
 Size (m²): 1,800

Scan Measurement Data

PGE - Trojan Nuclear Plant
 LUDLUM 2350-1 Raw Sample Data

Detector Log Filename: 00000000.dra
 Raw Data Filename: 00000000.lra
 Firmware #: 37122N25
 User ID: RLK6975/LEL5804
 Instrument Serial: 142499
 Detector Serial: 171995

*DATA FILE SAVED AS:
 G51038A09
 JC Ricardo
 11/17/04*

Sample#	Meas. Location	Date	Time	Count Value	Count Time	Mode	Status
0	G51038A09000001	11/17/04	08:42	4.905704e+03	0	0	0
1	G51038A09000002	11/17/04	08:47	4.717735e+03	0	0	0
2	G51038A09000003	11/17/04	08:52	5.102579e+03	0	0	0
3	G51038A09000004	11/17/04	08:58	5.435390e+03	0	0	0
4	G51038A09000005	11/17/04	09:03	5.265938e+03	0	0	0
5	G51038A09000006	11/17/04	09:08	5.067656e+03	0	0	0
6	G51038A09000007	11/17/04	09:12	5.000860e+03	0	0	0
7	G51038A09000008	11/17/04	09:18	5.974922e+03	0	0	0
8	G51038A09000009	11/17/04	09:22	5.008125e+03	0	0	0

*Data file reviewed & accepted but NOT uploaded to SPMS.
 All data less than action level of 9,000cpm & serves as gamma
 characterization survey. File archived on server in directory:
 D:\uploaded\Grounds & Yard Areas\G51038A09.*

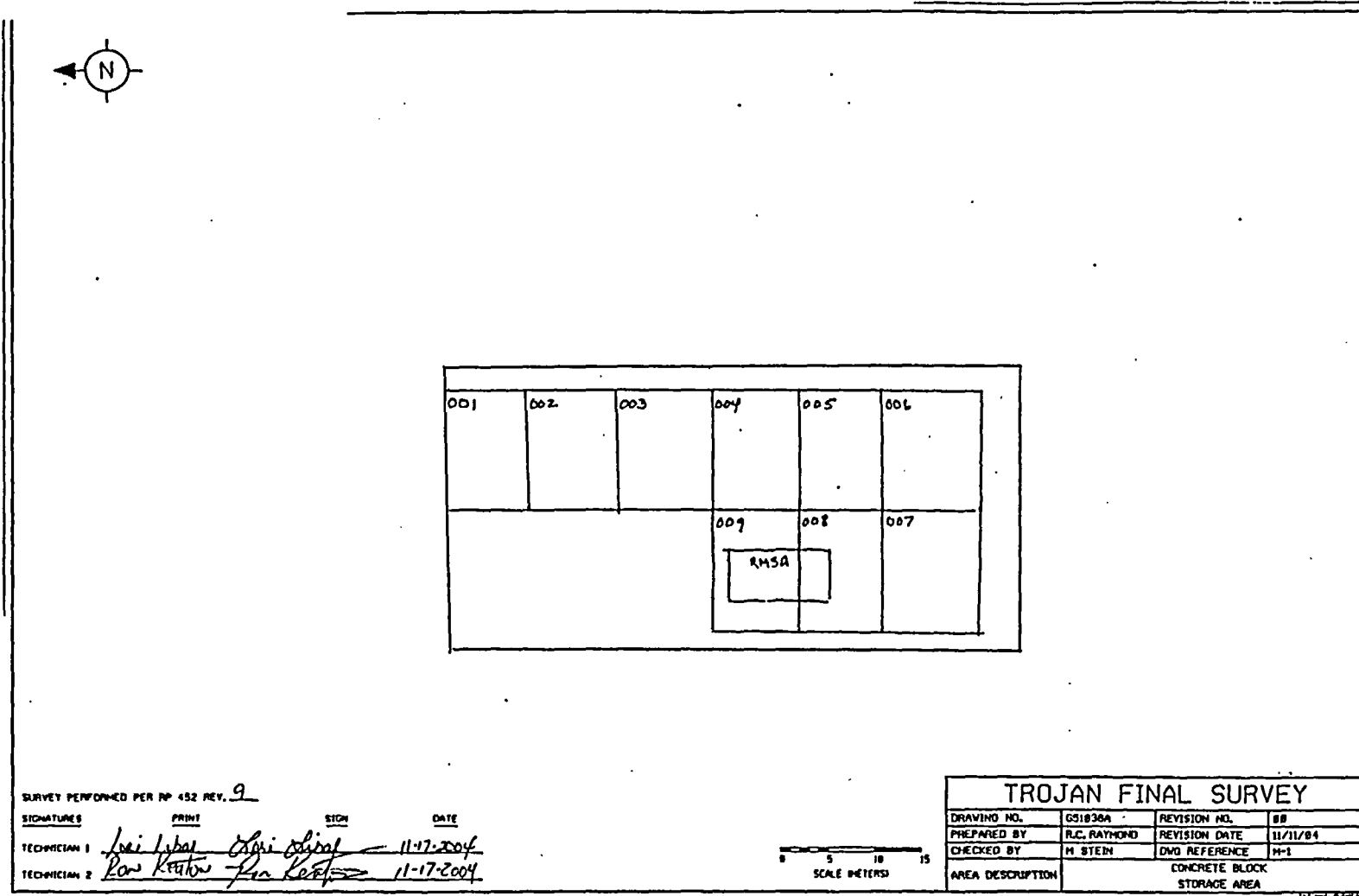
JE Rocha 11/21/04

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51038A
 Survey Unit Name: Concrete Block Storage Area

Classification: Class 2
 Size (m²): 1,800

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045A
 Survey Unit Name: Balance of Industrial Area Grounds

Classification: Class 3
 Size (m²): 21,694

Scan Measurement Data

PGE - Trojan Nuclear Plant
 LUDLUM 2350-1 Raw Sample Data

Detector Log Filename: 00000000.dra
 Raw Data Filename: 00000000.lra
 Firmware #: 37122N25
 User ID: RLK6975/LELS804
 Instrument Serial: 142499
 Detector Serial: 171995

DATA FILE SAVED AS:
 G51045A09B
J. Ricardo
 10/27/04

Sample#	Meas. Location	Date	Time	Count Value	Count Time	Mode	Status
0	G51045A09000001	10/27/04	13:39	6.796407e+03	0	0	0
1	G51045A09000007	10/27/04	13:47	6.427969e+03	0	0	0
2	G51045A09000008	10/27/04	14:00	7.893516e+03	0	0	0
3	G51045A09000009	10/27/04	14:07	6.733594e+03	0	0	0
4	G51045A09000010	10/27/04	14:13	6.985782e+03	0	0	0
5	G51045A09000011	10/27/04	14:40	7.216407e+03	0	0	0

Data file reviewed but not uploaded to SDMS, as serves as characterization data only. File archived in server directory D:\uploaded\Grounds & Yard Areas\G51045A09B.

J. Rocha 11/4/04

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045A
 Survey Unit Name: Balance of Industrial Area Grounds

Classification: Class 3
 Size (m²): 21,694

Scan Measurement Data

PGE - Trojan Nuclear Plant

LUIDLUM 2350-1 Sample Data

Downloaded Filename: G51045A09A.DAT ✓

Firmware #: 37122N25

User ID: RLK6975/LEL5804 ✓

Instrument Serial: 142499 ✓

Detector Serial: 171995

Sample#	Meas. Location	Date	Time	Count Value	Count Time	Mode	Status
1	G51045A09000002	10/25/04	14:09	8.776171e+03	0	0	0
2	G51045A09000003	10/25/04	14:17	7.799766e+03	0	0	0
3	G51045A09000004	10/25/04	14:23	9.029766e+03	0	0	0
4	G51045A09000005	10/25/04	14:29	7.639453e+03	0	0	0
5	G51045A09000006	10/25/04	14:39	7.375313e+03	0	0	0

Data file reviewed but not uploaded to SPMS

as serves as characterization data only.

Archived on server in directory D:\uploaded\Grounds\Yard Areas\G51045A09A.

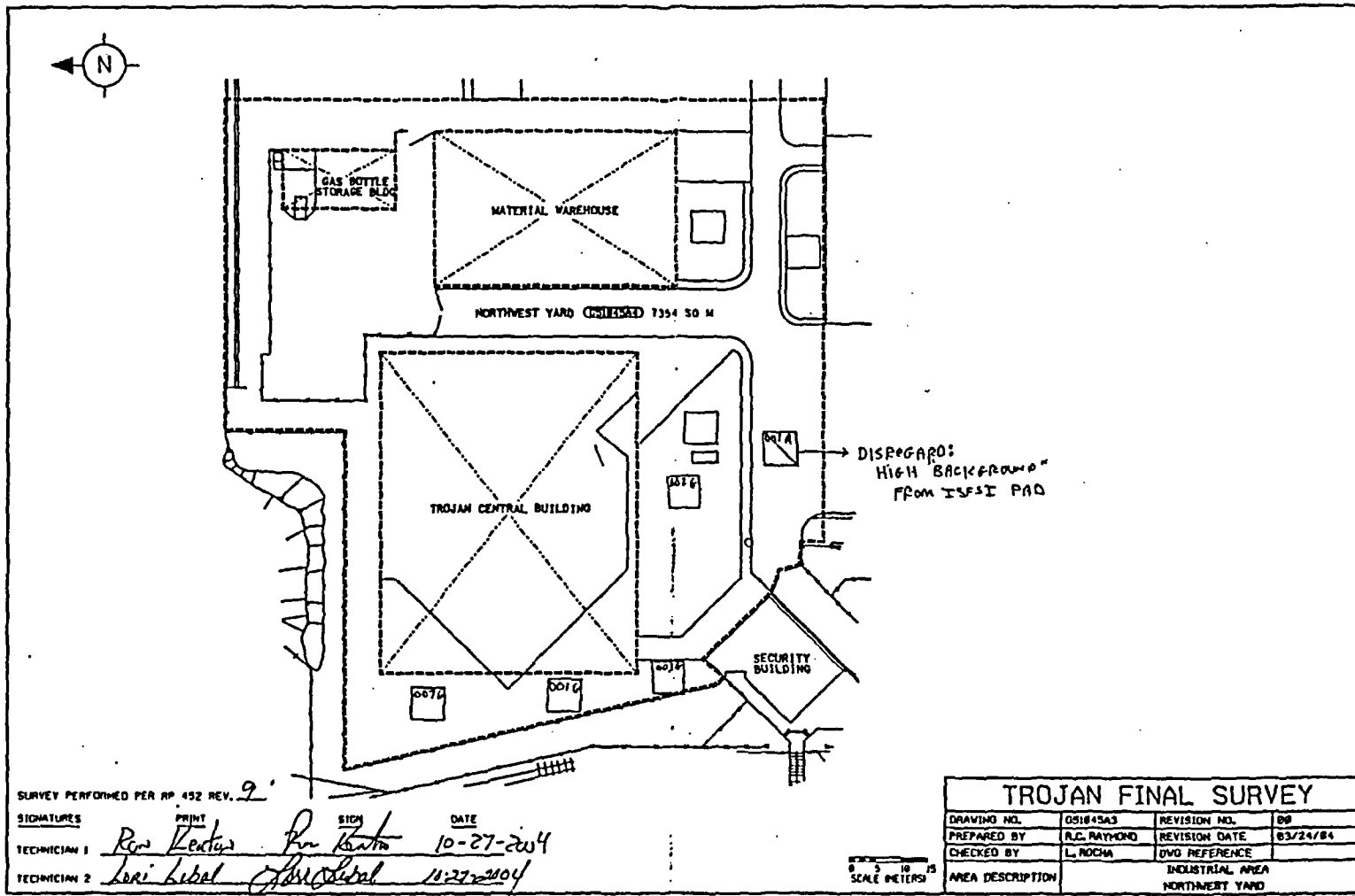
JE Rocha 11/2/04

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045A
 Survey Unit Name: Balance of Industrial Area Grounds

Classification: Class 3
 Size (m²): 21,694

Scan Measurement Locations Map

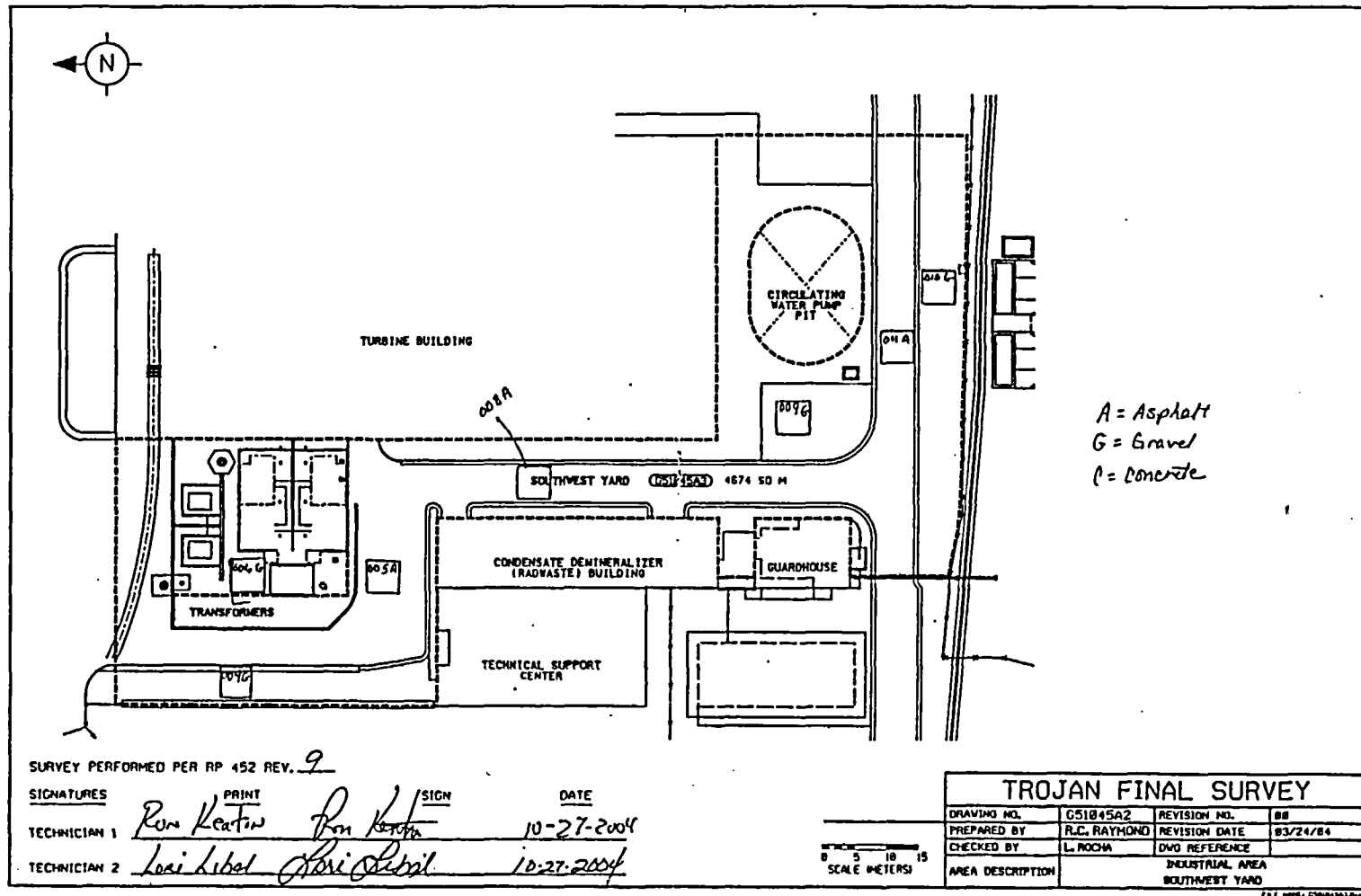


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045A
 Survey Unit Name: Balance of Industrial Area Grounds

Classification: Class 3
 Size (m²): 21,694

Scan Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 9

SIGNATURES	PRINT	SIGN	DATE
TECHNICIAN 1	Ron Keatin	<i>Ron Keatin</i>	10-27-2004
TECHNICIAN 2	Lois Lebel	<i>Lois Lebel</i>	10-27-2004

TROJAN FINAL SURVEY			
DRAWING NO.	G51045A2	REVISION NO.	08
PREPARED BY	R.C. RAYMOND	REVISION DATE	03/24/04
CHECKED BY	L. NOON	DWG REFERENCE	
AREA DESCRIPTION	INDUSTRIAL AREA SOUTHWEST YARD		

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045B
 Survey Unit Name: Tank Farm Yard Area #1

Classification: Class 2
 Size (m²): 2,743

Scan Measurement Data

PGE - Trojan Nuclear Plant

LU DLUM 2350-1 Sample Data

Downloaded Filename: G51045B09A.DAT ✓

Firmware #: 37122N25

User ID: MAG7024/AEH5014 ✓

Instrument Serial: 142499 ✓

Detector Serial: 171995

Sample#	Meas. Location	Date	Time	Count Value	Count Time	Mode	Status
0	G51045B09000001	10/13/04	14:52	8.905547e+03	0	0	0
2	G51045B09000002	10/13/04	16:35	7.482422e+03	0	0	0

Data file reviewed & accepted. File not uploaded to SDMS, as inappropriate to convert to μ R/hr. File archived in SDMS directory \upload grounds & ^{yard} raise areas.

J. Rocha 10/28/04

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045B
 Survey Unit Name: Tank Farm Yard Area #1

Classification: Class 2
 Size (m²): 2,743

Scan Measurement Data

PGE - Trojan Nuclear Plant

LUDDLUM 2350-1 Sample Data

Downloaded Filename: G51045B09B.DAT

Firmware #: 37122N25

User ID: MAG7024/AEH5014

Instrument Serial: 142499

Detector Serial: 171995

Sample#	Meas. Location	Date	Time	Count Value	Count Time	Mode	Status
1	G51045B09000003	10/14/04	09:45	7.580626e+03	0	0	0
2	G51045B09000004	10/14/04	10:15	6.551250e+03	0	0	0

Data file accepted, but not uploaded to SDMS, as it is inappropriate to convert to $\mu\text{R/hr}$. File archived in SDMS directory: \uploaded grounds ^{yards} & ~~site~~ areas.

JE Rocha 10/28/04

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045B
 Survey Unit Name: Tank Farm Yard Area #1

Classification: Class 2
 Size (m²): 2,743

Scan Measurement Data

PGE - Trojan Nuclear Plant

LUDLUM 2350-1 Raw Sample Data

Detector Log Filename: 00000000.dra
 Raw Data Filename: 00000000.lra
 Firmware #: 37122N25
 User ID: RLK6975/LEL5804
 Instrument Serial: 142499
 Detector Serial: 171995

*Data File Saved As:
 G51045B09C
 DC Ricardo
 10/20/04*

Sample#	Meas. Location	Date	Time	Count Value	Count Time	Mode	Status
0	G51045B09000005	10/20/04	13:11	6.374532e+03	0	0	0
1	G51045B09000006	10/20/04	13:20	7.113516e+03	0	0	0
2	G51045B09000007	10/20/04	13:33	9.560390e+03	0	0	0
3	G51045B09000008	10/20/04	13:42	7.923047e+03	0	0	0
4	G51045B09000009	10/20/04	13:51	7.884376e+03	0	0	0
5	G51045B09000010	10/20/04	13:59	9.050156e+03	0	0	0
6	G51045B09000011	10/20/04	14:09	8.685469e+03	0	0	0
7	G51045B09000012	10/20/04	14:19	7.810079e+03	0	0	0
8	G51045B09000013	10/20/04	14:29	8.715000e+03	0	0	0
9	G51045B09000014	10/20/04	14:42	1.184742e+04	0	0	1

Data file reviewed & accepted, but NOT uploaded to SDMS, as it is inappropriate to convert to uR/hr. File archived in SDMS directory \uploaded\ grounds & yard areas. Reading in scan area 14 exceeds investigation level & requires evaluation. JE Rocha 10/22/04

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045B
 Survey Unit Name: Tank Farm Yard Area #1

Classification: Class 2
 Size (m²): 2,743

Scan Measurement Data

PGE - Trojan Nuclear Plant

LUDLUM 2350-1 Raw Sample Data

Detector Log Filename: 00000000.dra
 Raw Data Filename: 00000000.lra
 Firmware #: 37122N25
 User ID: RLK6975/LEL5804
 Instrument Serial: 142499
 Detector Serial: 171995

DATA FILE SAVED AS:
 G51045B09D
J. Ricardo
 11/02/04

Sample#	Meas. Location	Date	Time	Count Value	Count Time	Mode	Status
0	G51045B09000011	11/02/04	16:18	7.432032e+03	0	0	0
1	G51045B09000012	11/02/04	16:25	7.245937e+03	0	0	0
2	G51045B09000013	11/02/04	16:32	6.805312e+03	0	0	0
3	G51045B09000014	11/02/04	16:39	6.056484e+03	0	0	0

Replacement gamma scan data reviewed but NOT uploaded to SDMS as serves only as characterization data. File archived on SDMS directory Di\uploaded\

Grounds + Yard Areas \ G51045B09D

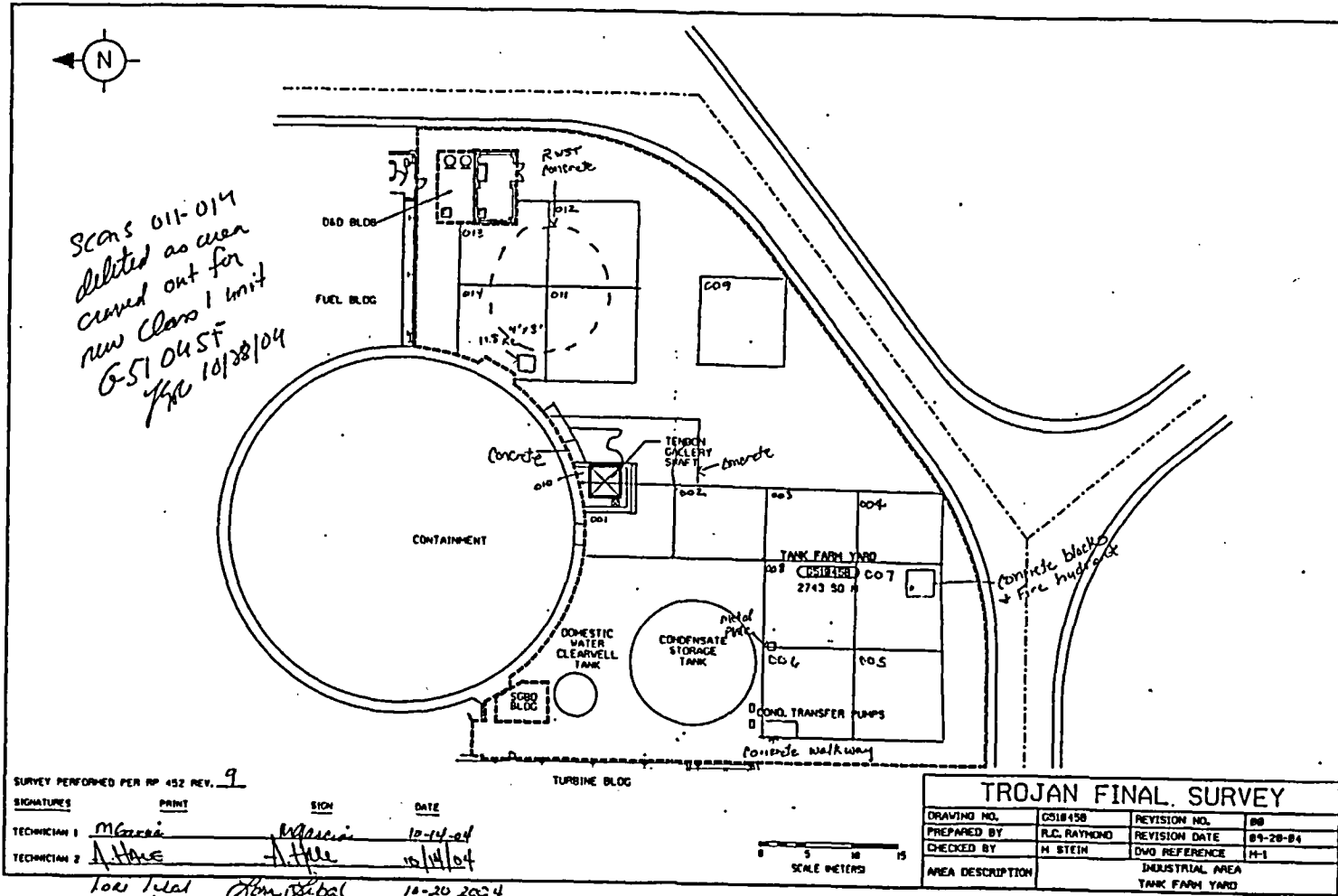
J. Rocha 11/10/04

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045B
 Survey Unit Name: Tank Farm Yard Area #1

Classification: Class 2
 Size (m²): 2,743

Scan Measurement Locations Map

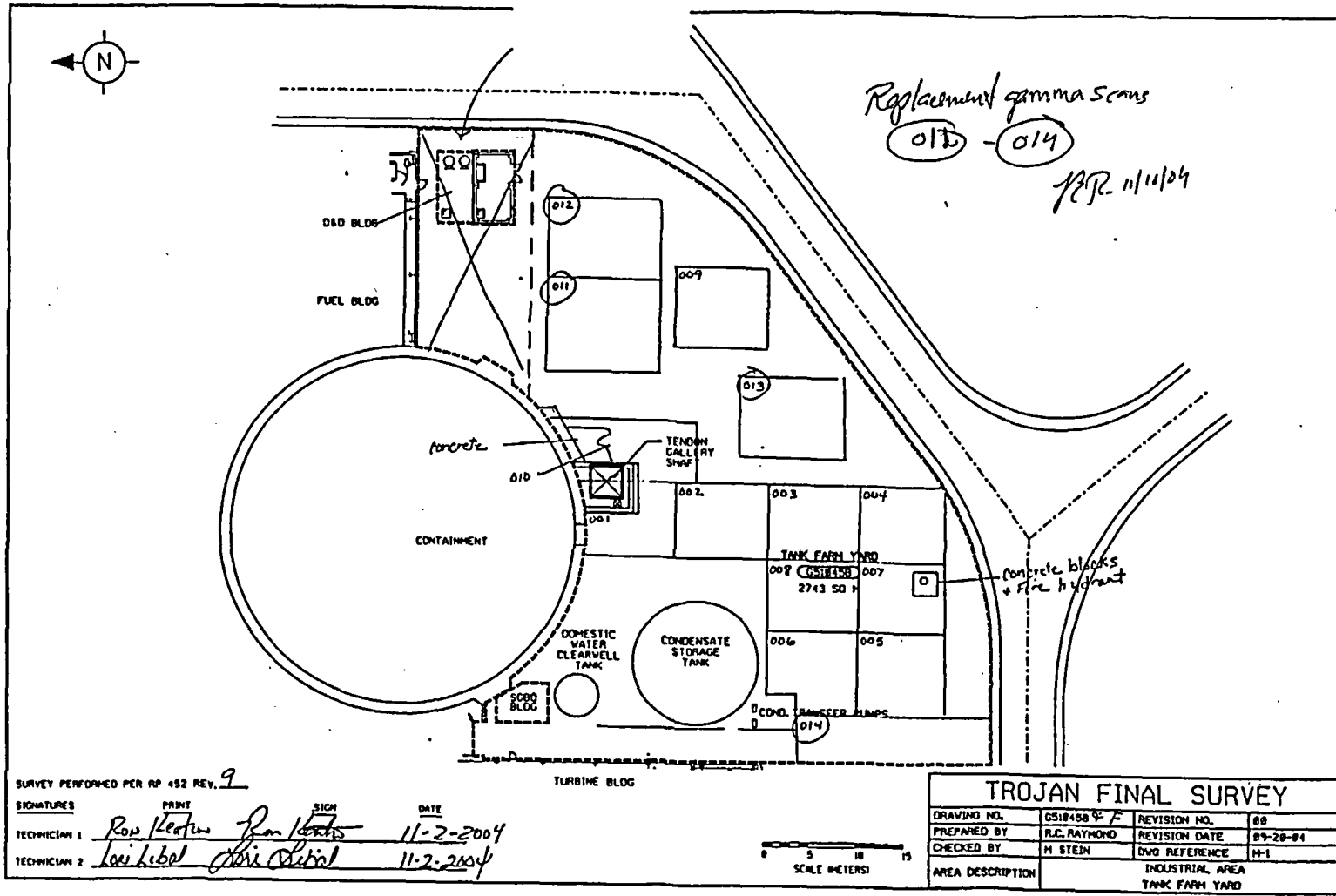


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045B
 Survey Unit Name: Tank Farm Yard Area #1

Classification: Class 2
 Size (m²): 2,743

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045C
 Survey Unit Name: Southeast Industrial Yard Area #1

Classification: Class 1
 Size (m²): 1,488

Scan Measurement Data

PGE - Trojan Nuclear Plant
 LUDLUM 2350-1 Raw Sample Data

DATA FILE SAVED AS:

G51045C09
 J. E. Ricardo
 11/03/04

Detector Log Filename: 00000000.dra
 Raw Data Filename: 00000000.lra
 Firmware #: 37122N25
 User ID: RLK6975/LEL5804
 Instrument Serial: 142499
 Detector Serial: 171995

Sample#	Meas. Location	Date	Time	Count Value	Count Time	Mode	Status
0	G51045C09000001	11/03/04	10:27	6.662109e+03	0	0	0
1	G51045C09000002	11/03/04	10:32	6.821954e+03	0	0	0
2	G51045C09000003	11/03/04	10:38	7.333594e+03	0	0	0
3	G51045C09000004	11/03/04	10:47	6.751172e+03	0	0	0
4	G51045C09000005	11/03/04	10:53	6.165235e+03	0	0	0
5	G51045C09000006	11/03/04	11:00	7.521328e+03	0	0	0
6	G51045C09000007	11/03/04	11:06	6.530860e+03	0	0	0
7	G51045C09000008	11/03/04	11:15	7.667579e+03	0	0	0
8	G51045C09000009	11/03/04	11:30	7.570547e+03	0	0	0
9	G51045C09000010	11/03/04	13:45	7.670391e+03	0	0	0
10	G51045C09000011	11/03/04	13:57	7.812656e+03	0	0	0

Gamma scan data reviewed, but NOT uploaded to SDMS, as serves as characterization data only. All values well below than action level of 9,000 cpm. File archived on SDMS server in directory D:\uploaded\Granby\Yard Area\G51045C09.

PAGE 1

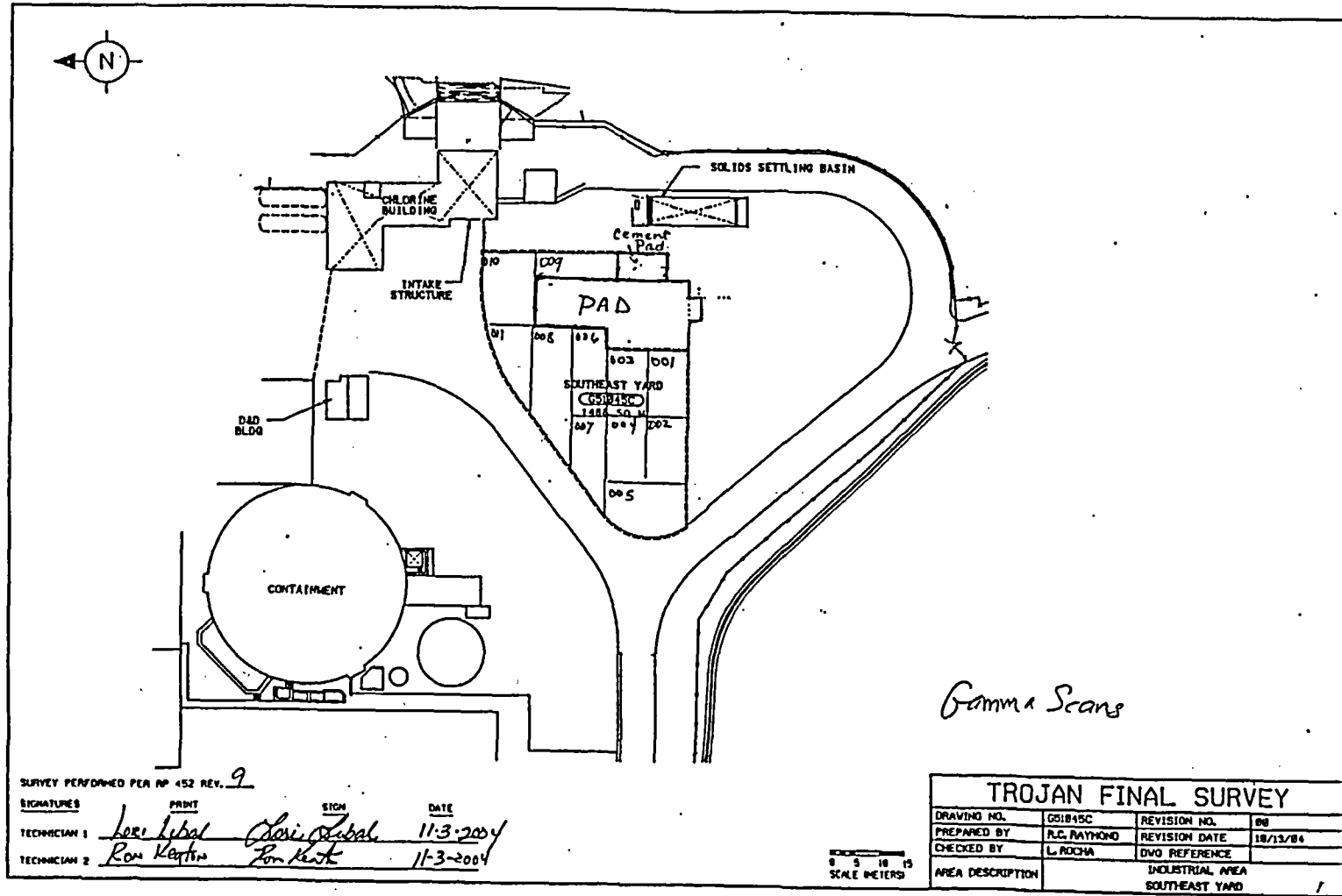
J. E. Ricardo 11/10/04

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045C
 Survey Unit Name: Southeast Industrial Yard Area #1

Classification: Class 1
 Size (m²): 1,488

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045D
 Survey Unit Name: Southeast Industrial Yard Area #2

Classification: Class 1
 Size (m²): 1,551

Scan Measurement Data

PGE - Trojan Nuclear Plant
 LUDLUM 2350-1 Raw Sample Data

DATA FILE SAVED AS:
 G51045D09

Detector Log Filename: 00000000.dra
 Raw Data Filename: 00000000.lra
 Firmware #: 37122N25
 User ID: RLK6975/LELS804
 Instrument Serial: 142499
 Detector Serial: 171995

JC Ricardo
 10/28/04

Sample#	Meas. Location	Date	Time	Count Value	Count Time	Mode	Status
0	G51045D09000001	10/28/04	08:31	7.641562e+03	0	0	0
1	G51045D09000002	10/28/04	08:39	7.593282e+03	0	0	0
2	G51045D09000003	10/28/04	08:47	7.020000e+03	0	0	0
3	G51045D09000004	10/28/04	08:53	6.806484e+03	0	0	0
4	G51045D09000005	10/28/04	09:01	7.189219e+03	0	0	0
5	G51045D09000006	10/28/04	09:09	7.259766e+03	0	0	0
6	G51045D09000007	10/28/04	09:15	6.265547e+03	0	0	0
7	G51045D09000008	10/28/04	09:20	6.511875e+03	0	0	0
8	G51045D09000009	10/28/04	09:25	6.715078e+03	0	0	0
9	G51045D09000010	10/28/04	09:33	7.453125e+03	0	0	0
10	G51045D09000011	10/28/04	09:38	7.268203e+03	0	0	0

Gamma scan data reviewed but not uploaded to SDMS, as series as characterization data only. All values are less than action level of 9,000cpm. File has been archived on SDMS server in directory D:\uploaded\Grounds\Yard Areas\G51045D09.

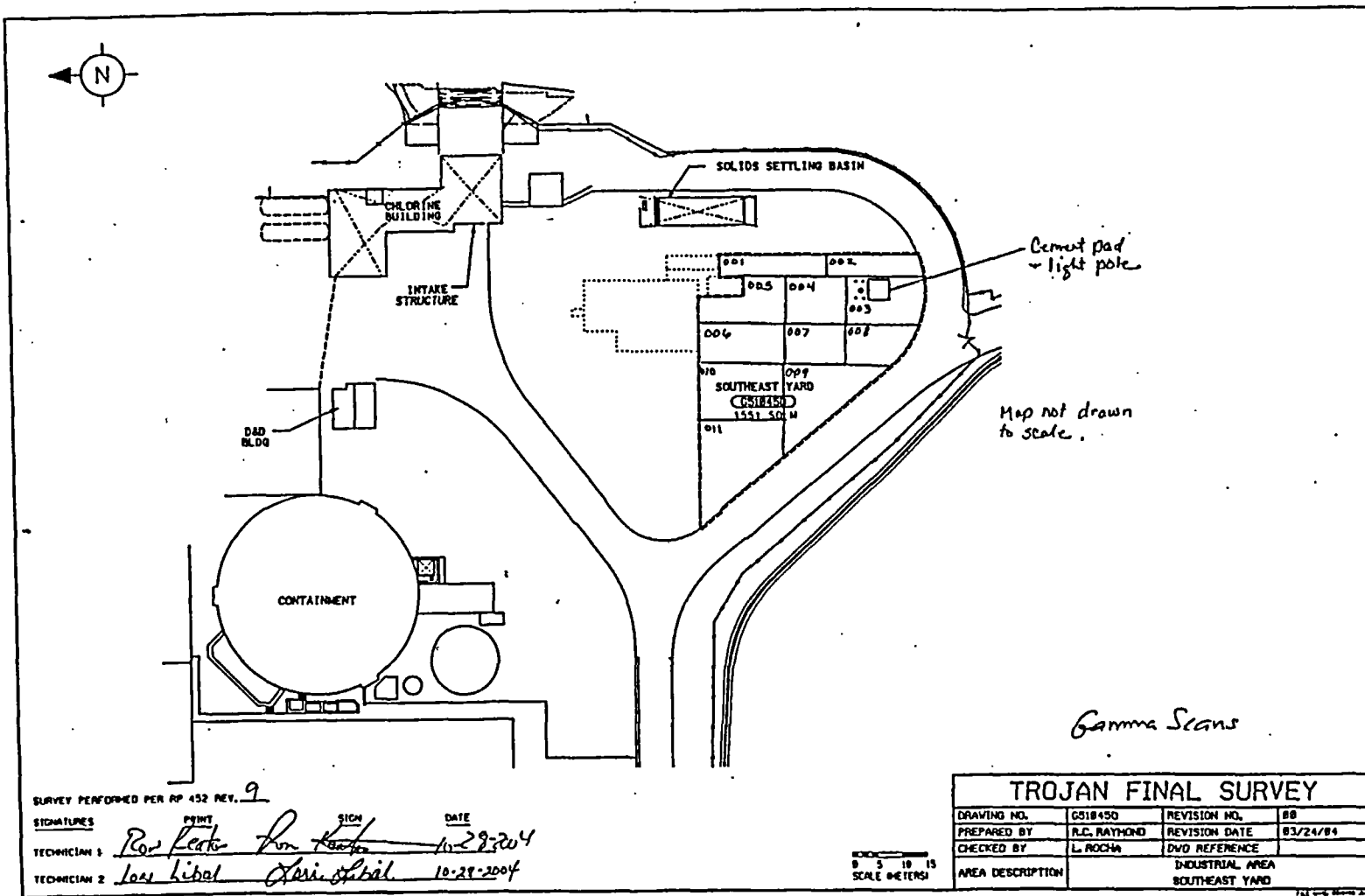
JC Rocha 11/10/04

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045D
 Survey Unit Name: Southeast Industrial Yard Area #2

Classification: Class 1
 Size (m²): 1,551

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045E
 Survey Unit Name: Southeast Industrial Yard Area #3

Classification: Class 2
 Size (m²): 4,856

Scan Measurement Data

PGE - Trojan Nuclear Plant
 LUDDLUM 2350-1 Raw Sample Data

Detector Log Filename: 00000000.dra
 Raw Data Filename: 00000000.lra
 Firmware #: 37122N25
 User ID: RLK6975/LEL5804
 Instrument Serial: 142499
 Detector Serial: 171995

*Data File Saved As:
 G51045E09
 JCRicardo
 11/03/04*

Sample#	Meas. Location	Date	Time	Count Value	Count Time	Mode	Status
0	G51045E09000001	11/03/04	16:03	7.956563e+03	0	0	0
1	G51045E09000002	11/03/04	16:09	9.095391e+03	0	0	0
2	G51045E09000003	11/03/04	16:16	6.285703e+03	0	0	0
3	G51045E09000004	11/03/04	16:24	6.782110e+03	0	0	0
4	G51045E09000005	11/03/04	16:31	6.008203e+03	0	0	0
5	G51045E09000006	11/03/04	16:38	6.182579e+03	0	0	0
6	G51045E09000007	11/03/04	16:43	7.370860e+03	0	0	0
7	G51045E09000008	11/03/04	16:48	6.774141e+03	0	0	0
8	G51045E09000009	11/03/04	16:54	9.704453e+03	0	0	0
9	G51045E09000010	11/03/04	17:00	9.656250e+03	0	0	0

*Characterization gamma scans data file reviewed
 but NOT uploaded to SDMS. File archived on
 SDMS server in directory D:\uploaded\grounds & yard areas*

G51045E09

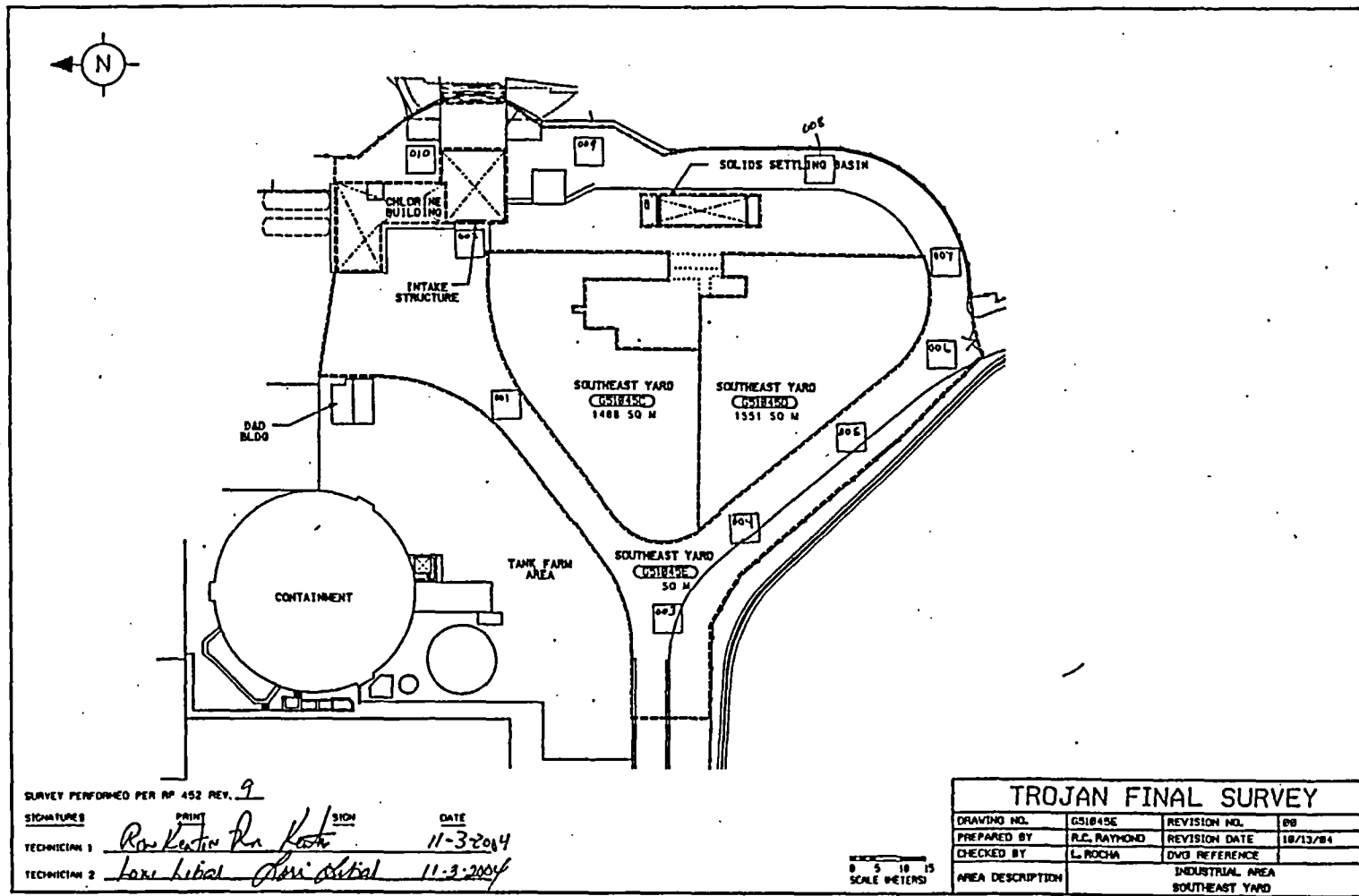
JERocke 11/14/04

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045E
 Survey Unit Name: Southeast Industrial Yard Area #3

Classification: Class 2
 Size (m²): 4,856

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045F
 Survey Unit Name: Tank Farm Yard Area #2

Classification: Class 1
 Size (m²): 300

Scan Measurement Data

PGE - Trojan Nuclear Plant

LUDDLUM 2350-1 Raw Sample Data

Detector Log Filename: 00000000.dra
 Raw Data Filename: 00000000.lra
 Firmware #: 37122N25
 User ID: RLK6975/LEL5804
 Instrument Serial: 142499
 Detector Serial: 171995

DATA FILE SAVED AS:
 G51045F09

J. Ricardo
 11/03/04

Sample#	Meas. Location	Date	Time	Count Value	Count Time	Mode	Status
0	G51045F09000001	11/03/04	08:09	1.330734e+04 ^ψ	0	0	1
1	G51045F09000002	11/03/04	08:22	8.821875e+03	0	0	1
2	G51045F09000003	11/03/04	08:35	9.309141e+03 ^ψ	0	0	1

Gamma scans data Reviewed but NOT uploaded to SDMS, as serves as characterization data only. Values for location 1 & 2 are less than action level of 9,000 cpm. Value for location 3 is slightly higher than 9,000 cpm due to concrete in scan area & is considered acceptable. Value for location 1 exceeds action level of 9,000 cpm due to presence of Cs-137 in the area that was remediated & is expected. Since this elevated scan location is a heady within static measurement distribution, no further action is required. Data file has been archived to the SDMS server in directory: D:\uploaded\Grounds Yard Areas\G51045F09.

PAGE 1

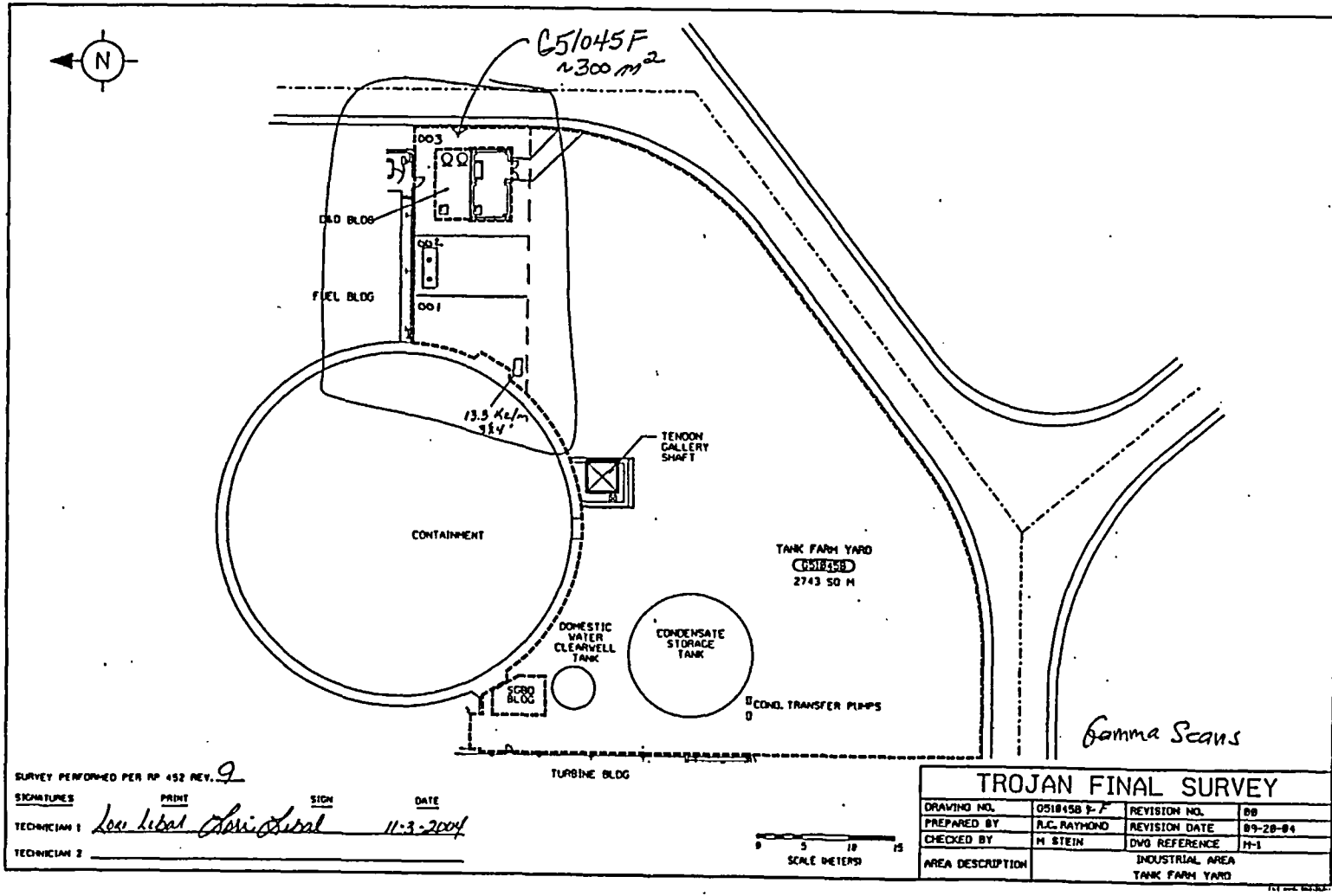
J.E. Rodhe 11/10/04

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G51045F
 Survey Unit Name: Tank Farm Yard Area #2

Classification: Class 1
 Size (m²): 300

Scan Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G52025A
Survey Unit Name: Pebble Springs Yard

Classification: Class 3
Size (m²): 7,810

No scan Measurements taken.