

TECHNICAL PORTFOLIO · 2026

PYP

PLANOS Y PROYECTOS S.A.S.

In the beginning, it was just an idea

Engineering, calculations and technical documentation for the people who build. Experience since 2007, in Uruguay.

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2007
Experience in electrical projects

+350
Projects delivered

+120
Companies and professionals served

1 day
First reply within one business day

PDF + DWG
Always delivered, with your title block

01 · WHO WE ARE

A technical office that designs, calculates and draws

PYP Planos y Proyectos S.A.S. is a Uruguayan company specializing in design and technical documentation for engineering, architecture and mechanical projects. Over the years we have grown steadily, expanding both our client base and the complexity of the projects we take on.

We work with 2D and 3D solutions, using CAD and Revit technologies that allow us to deliver precise, efficient and reliable results, supporting our clients from the initial idea through to the final documentation.

M

Mission

To think, design and draw high-quality technical solutions, providing solid professional support and meeting our clients' needs through continuous improvement.

V

Vision

To be a benchmark company for technical excellence and innovation, recognized for its commitment to quality and as a workplace that fosters the team's growth and motivation.

+

Values

Commitment: we meet requirements and deadlines.
Innovation: we adopt up-to-date technologies.
Integrity: transparency and accountability.
Collaboration: teamwork with clients and professionals.



From idea to built installation

We design so that the contractor who hires us can build it. We don't carry out installations or represent brands.

A structured and collaborative process

We develop every project through a process designed to ensure technical accuracy, clear documentation and delivery within the agreed timeline.

STAGE 01

Survey and analysis

We review what already exists and agree on scope, deliverable format and timeline. The price is fixed before we start.

STAGE 02

Design development

We carry out the calculations and drawings to the applicable code and the standards used on your project.

STAGE 03

Technical review

We send you a version to mark up. Comments are incorporated and the revision is recorded.

STAGE 04

Final delivery

You receive the complete set in PDF and DWG, with organized layers and your title block, ready to submit.

Benefits for the client

01 **Time and cost optimization.** A dedicated designer moves your project forward every day, without competing with on-site emergencies.

02 **Fewer errors on site.** Consistent documentation that is easy to read for the crew doing the installation.

03 **Designs that comply with current codes** and good engineering practice.

04 **CAD, 3D and BIM** to make the project easier to visualize and understand technically.

05 **Professional support throughout the project** and at every stage.

What we can solve for you

Technical drawings

Production and updating of electrical, mechanical, architectural and multidisciplinary drawings.

Project design

Complete development of technical projects, from concept to final documentation.

Technical documentation

Manuals, design and calculation reports, and technical specifications.

Technical advice

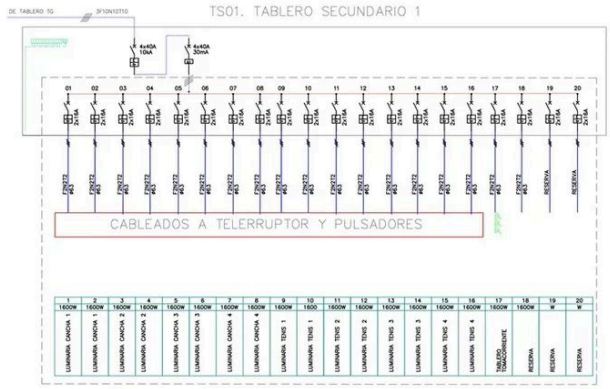
Guidance on project planning and optimization. Solving technical problems and proposing improvements.

Interdisciplinary coordination

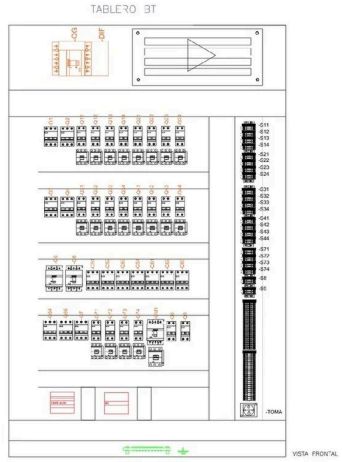
Coordination with the project's other disciplines so that the installations fit together on site.

Digitizing paper drawings

Conversion of paper or PDF drawings to CAD files, with high accuracy and updated to as-built conditions.



CIRCUIT SCHEDULE · SUB-DISTRIBUTION BOARD



SWITCHBOARD IN CAD FORMAT

From calculation to the drawing you submit

Electrical calculations

Load schedules, voltage drop, conductor sizing checks and protection coordination. Design and calculation reports ready to attach to your submission.

Single-line diagrams

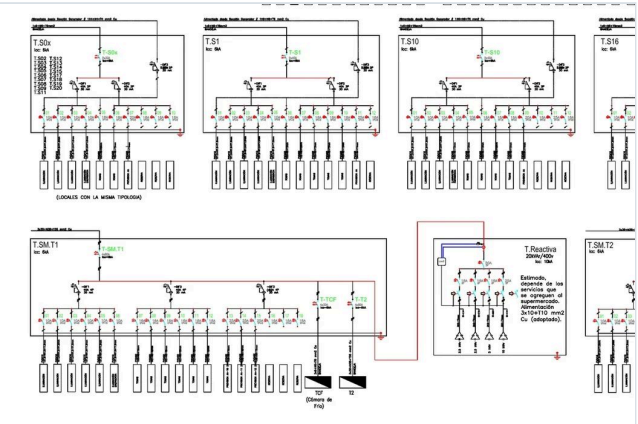
We update, design and digitize power, control and remote-control single-line diagrams: wiring, automation, lighting and low-current systems.

Switchboards

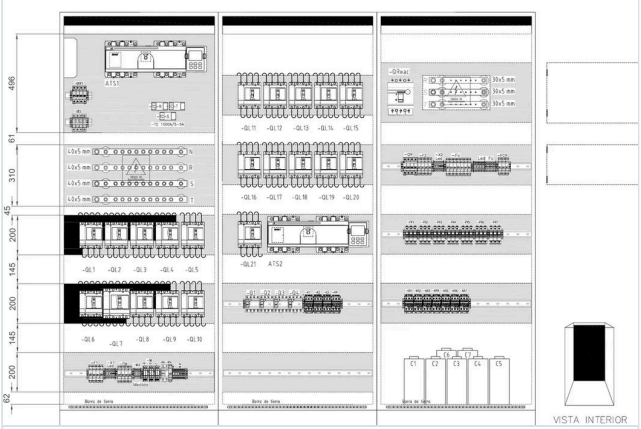
From paper to digital. Switchboards are delivered in CAD format, which makes the information versatile and reusable in future projects.

Bill of materials

Our switchboard drawings include an automatic bill of materials: it lets you evaluate costs, and any design change updates the list.



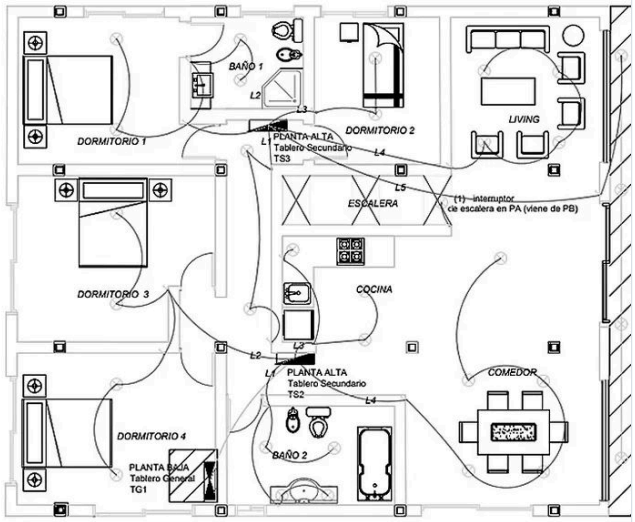
SINGLE-LINE DIAGRAMS · ISC 6 KA · RCD PER CIRCUIT



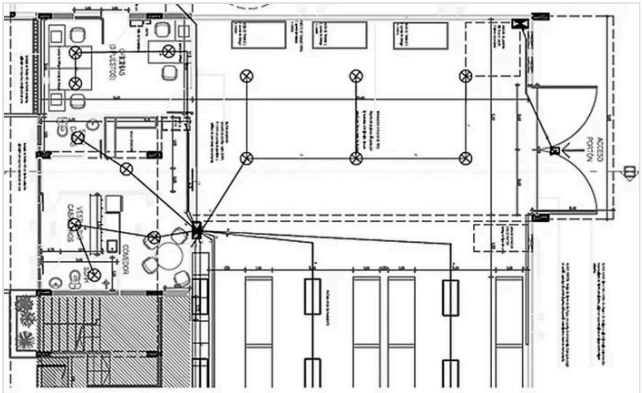
MAIN SWITCHBOARD · INTERIOR CONSTRUCTION VIEW

Installation, metering and service connection design

Residential wiring drawings are essential for building and maintaining homes: they make installation work safe and efficient, and ensure that the installation complies with current codes and regulations.



INSTALLATION PLAN · CIRCUITS AND SUB-DISTRIBUTION BOARDS



GROUND FLOOR · OUTLETS, CONDUITS AND SERVICE ENTRANCE

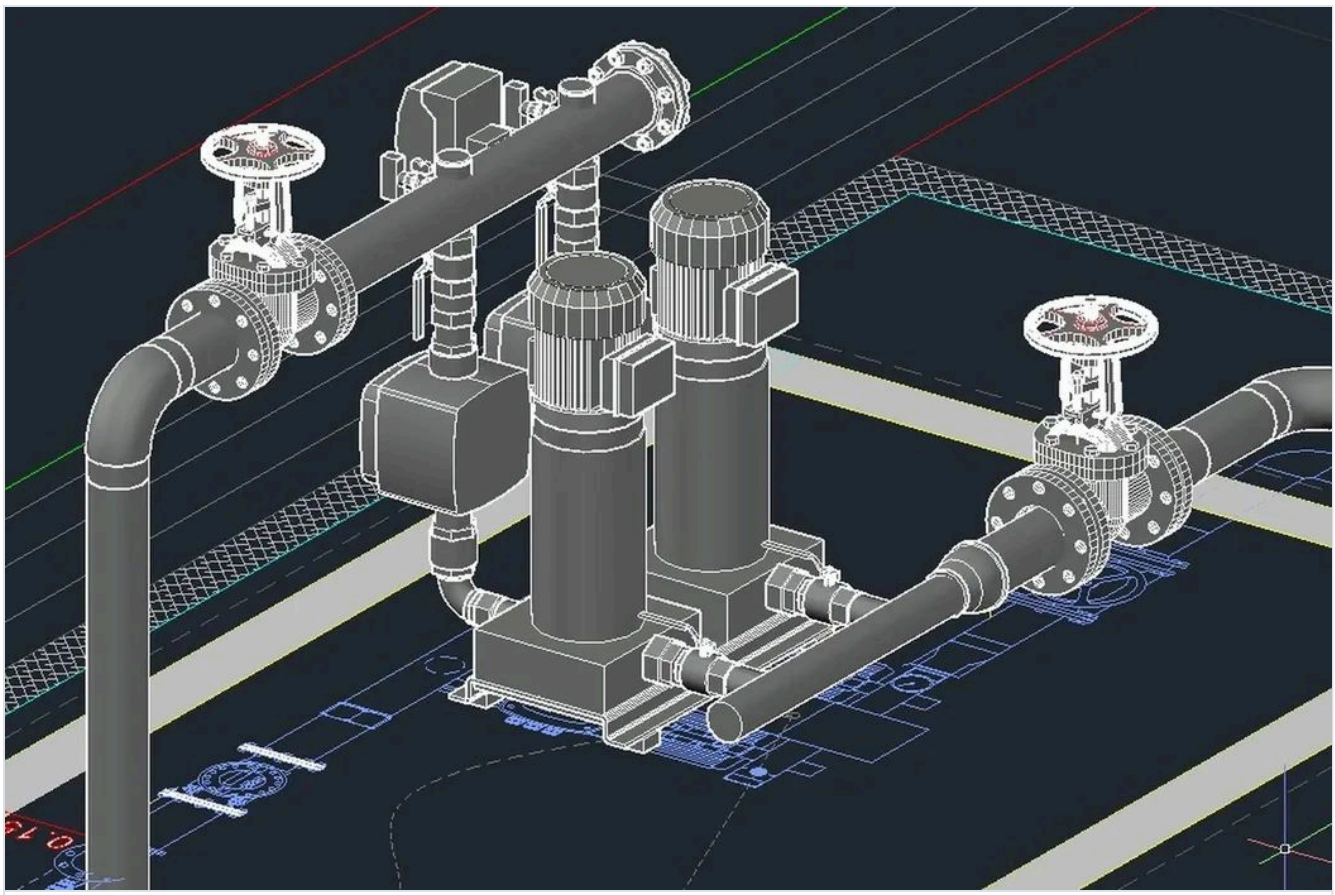
Grouped meter installations

Layout of meter cabinets and meters, service entrance, conduits, conductor sizes and protection, with the construction details required by current codes.

From a single home to a subdivision

We handle everything from the installation of a single house to the complete metering of an apartment building or an entire neighborhood, including its distribution network.

Accurate 3D models of equipment and piping



PUMPING SKID · DISCHARGE HEADER, GATE VALVES AND BASE FRAME

Isometrics

We update, design and digitize mechanical parts, turning drawings into isometrics.

Mechanical and hydraulic design

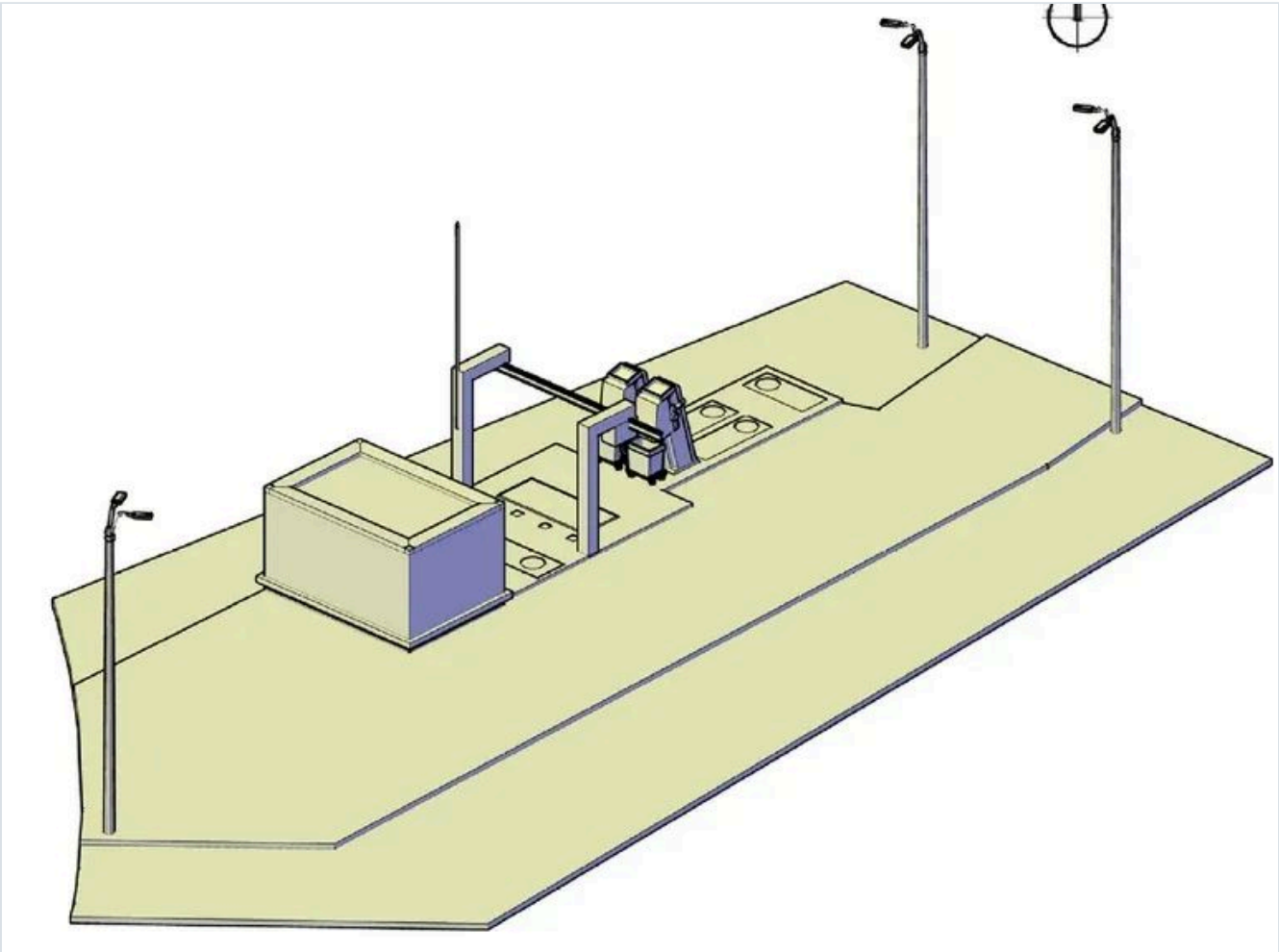
Detailed 3D models of mechanical systems, piping and structures that streamline planning and industrial execution.

Views and part breakdowns

CAD drawings with the required views, dimensions and technical specifications, including breakdowns of mechanical components.

Revit: coordinate before you build

Revit makes projects more efficient, accurate and sustainable. The team can simulate the construction process and detect problems before they occur, as well as generate isometric views of the project.



3D SITE LAYOUT MODEL · EQUIPMENT, STRUCTURE AND TERRAIN

Drawings that get built

Our designs ensure correct interpretation on site, reduce errors and shorten construction times. Precise CAD and 3D designs, tailored to the requirements of each project, ensuring clarity, technical consistency and code compliance.



PROJECT RENDER · FACADE AND LIGHTING STUDY



THE SAME PROJECT, BUILT

From drawing to render

The model shows the result before construction begins, so it can be discussed with the end client.

From render to reality

What gets drawn is what gets built: that’s the only proof that counts.

And it’s all documented

At close-out, the documentation is updated to what was actually built.

What we can prove

2007	+350	+120	1 day	2018
Experience in electrical projects	Projects delivered	Companies and professionals served	First reply within one business day	Company incorporated

Your title block on every drawing

Your name, tax ID, phone number and logo go on the cover sheet. PYP appears only in the “drawn by” field.

The editable file is yours

Along with the PDF you get the DWG with separate, referenced layers, at no extra cost and without having to ask.

Confidentiality

All documentation is treated as confidential. We sign an NDA if your client requires it.

We are a technical office, and that defines who we compete with

- **We don’t carry out installations.** We don’t do site work or compete with the contractor who hires us: we design so that they can build it.
- **We don’t sell materials.** We don’t represent any brands. The bill of materials is based on technical criteria, not commissions.
- **We don’t handle the filing.** Submissions to UTE, Uruguay’s power utility, are made by whoever signs. We prepare the documentation that submission requires.

Tools

4MCAD PRO, AutoCAD-compatible, with DWG delivery · Revit for 3D modeling and BIM · PYP’s own grounding grid calculation spreadsheet per IEEE Std 80.

Codes and standards

UTE requirements and UNIT standards applied every day on real projects, not as a statement of intent.

10 · CONTACT

Let’s start your project

One line is enough to get started. We’ll reply within 1 business day with any remaining questions, or straight away with a quote.

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