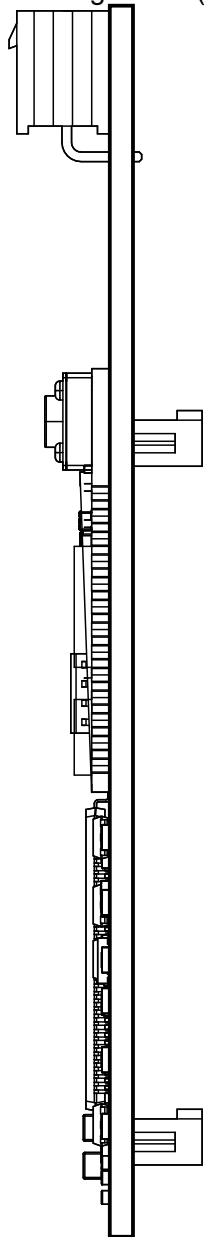
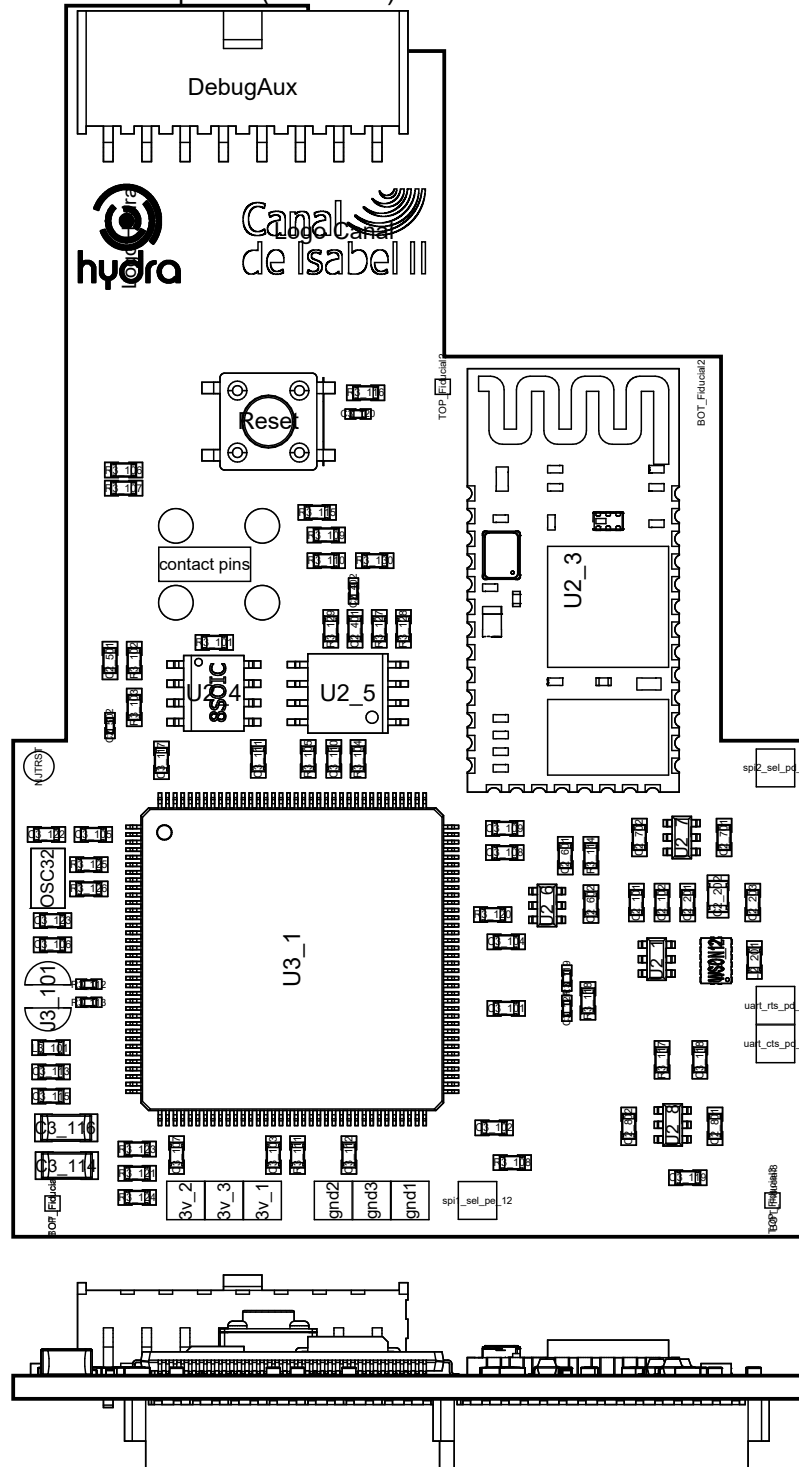


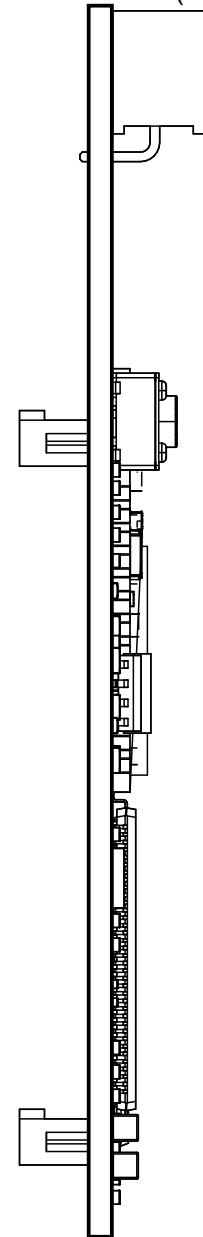
View from Right side (Scale 2:1)



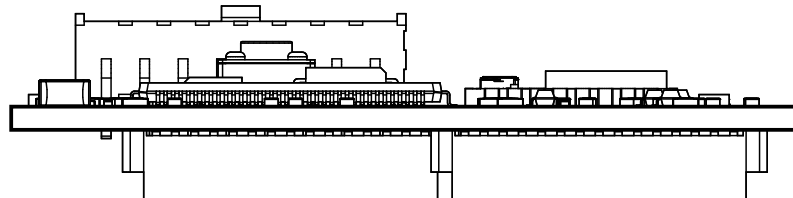
View from Top side (Scale 2:1)



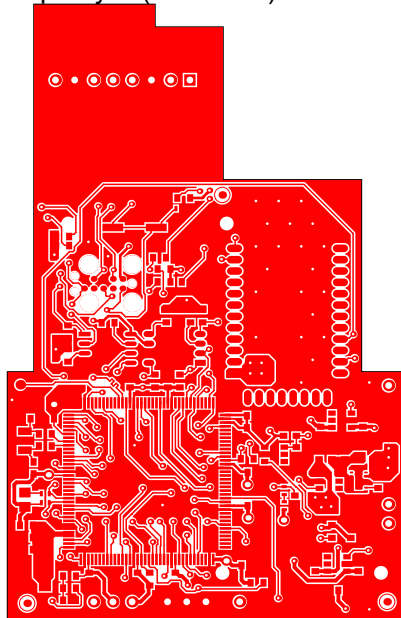
View from Left side (Scale 2:1)



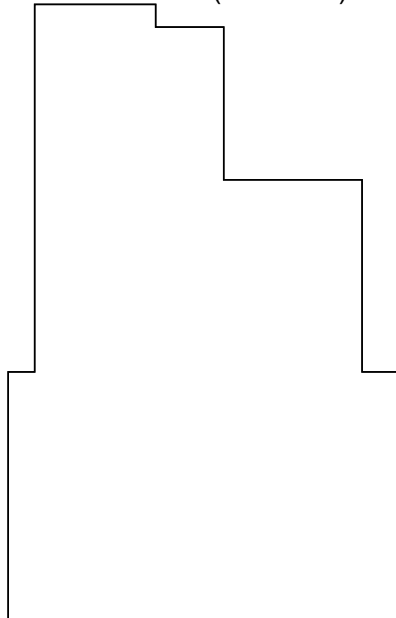
View from Front side (Scale 2:1)



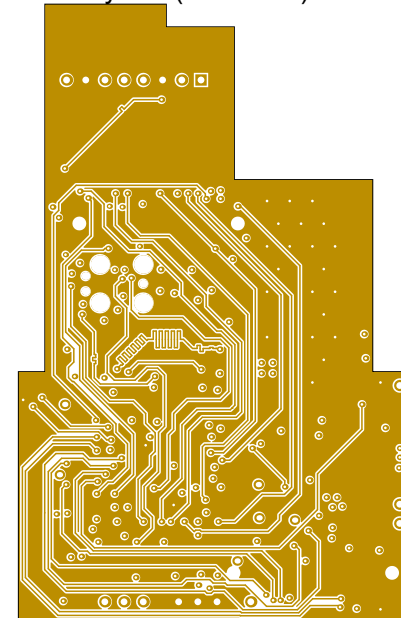
Top Layer (Scale 1:1)



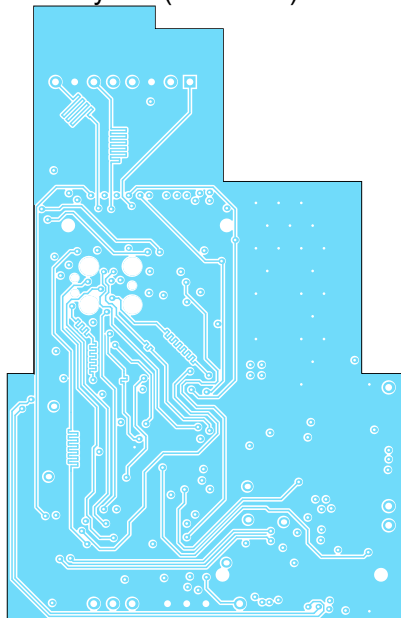
Internal Plane 1 (Scale 1:1)



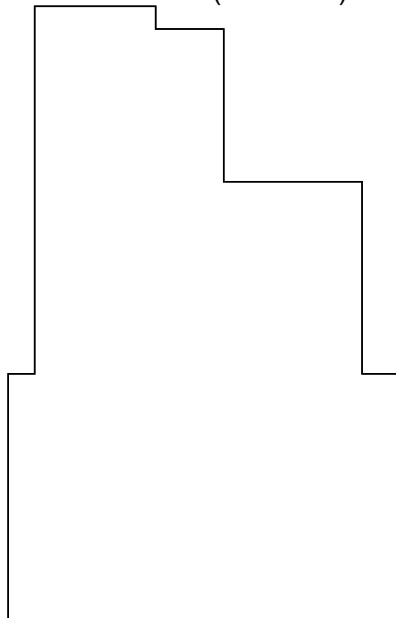
Mid-Layer 1 (Scale 1:1)



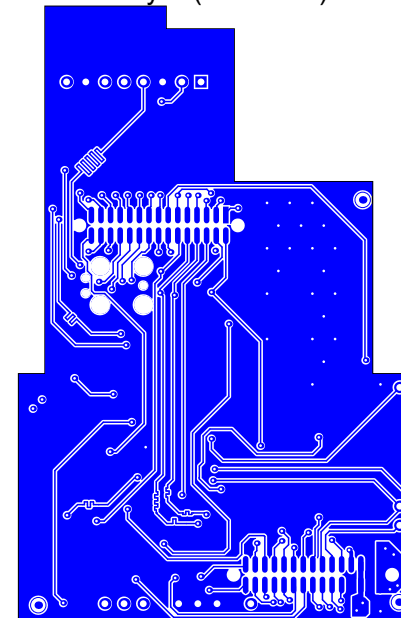
Mid-Layer 2 (Scale 1:1)



Internal Plane 2 (Scale 1:1)



Bottom Layer (Scale 1:1)

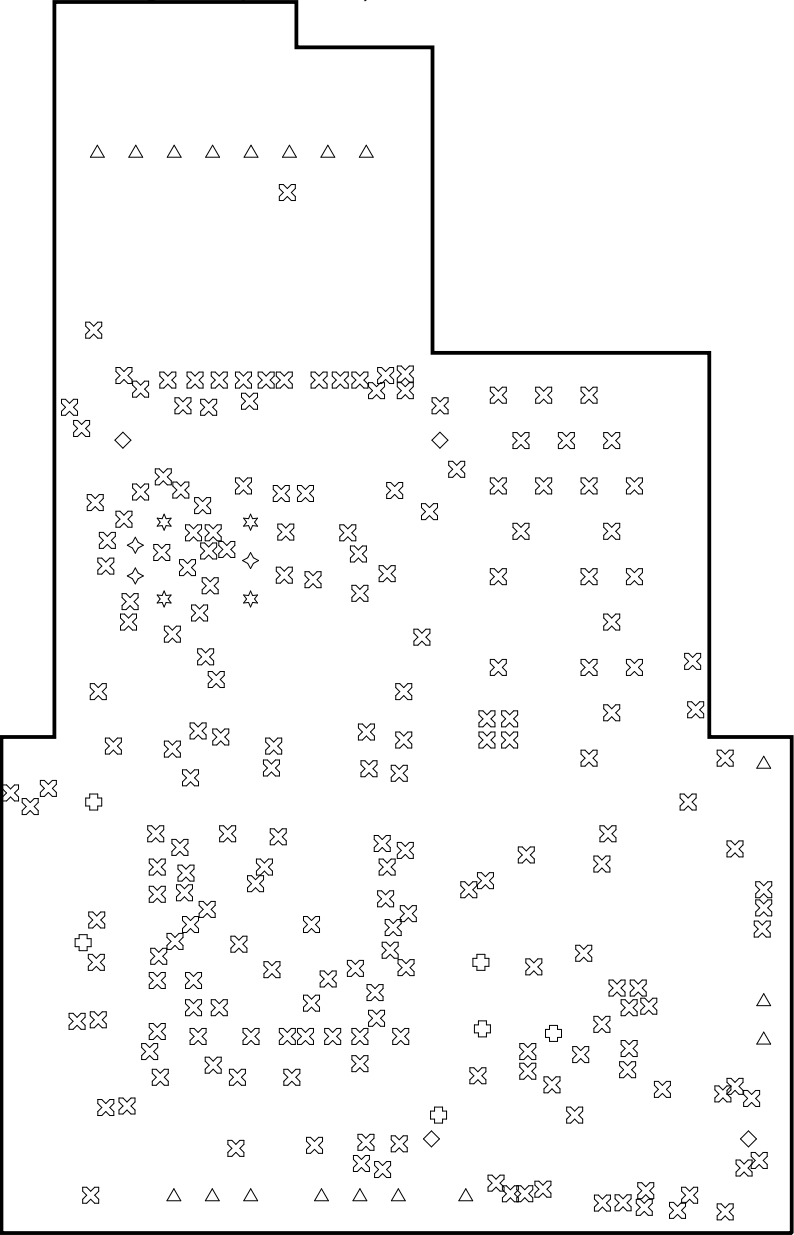


Layer Stack Legend

Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
Surface Material	Top Solder	0.01mm	Solder Resist	Solder Mask	GTS
Copper	Top Layer	0.04mm		Signal	GTL
		0.32mm	FR-4	Dielectric	
Copper	Internal Plane 1	0.04mm		Internal Plane	GP1
Prepreg		0.18mm	PP-021	Dielectric	
CF-004	Mid-Layer 1	0.04mm		Signal	G1
		0.32mm	FR-4	Dielectric	
CF-004	Mid-Layer 2	0.04mm		Signal	G2
Prepreg		0.18mm	PP-021	Dielectric	
Copper	Internal Plane 2	0.04mm		Internal Plane	GP2
		0.32mm	FR-4	Dielectric	
Copper	Bottom Layer	0.04mm		Signal	GBL
Surface Material	Bottom Solder	0.01mm	Solder Resist	Solder Mask	GBS
	Bottom Overlay			Legend	GBO

Total thickness: 1.55mm

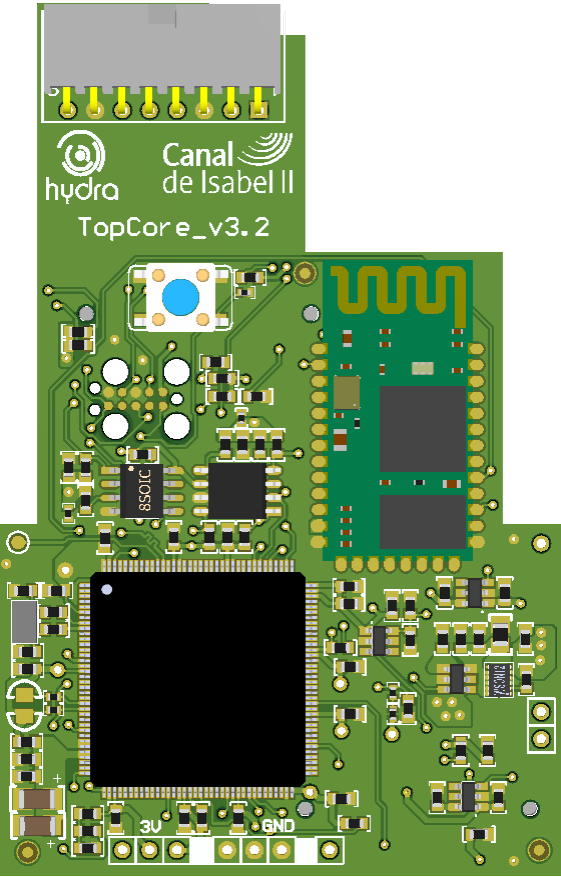
Drill Drawing View (Scale 2:1)



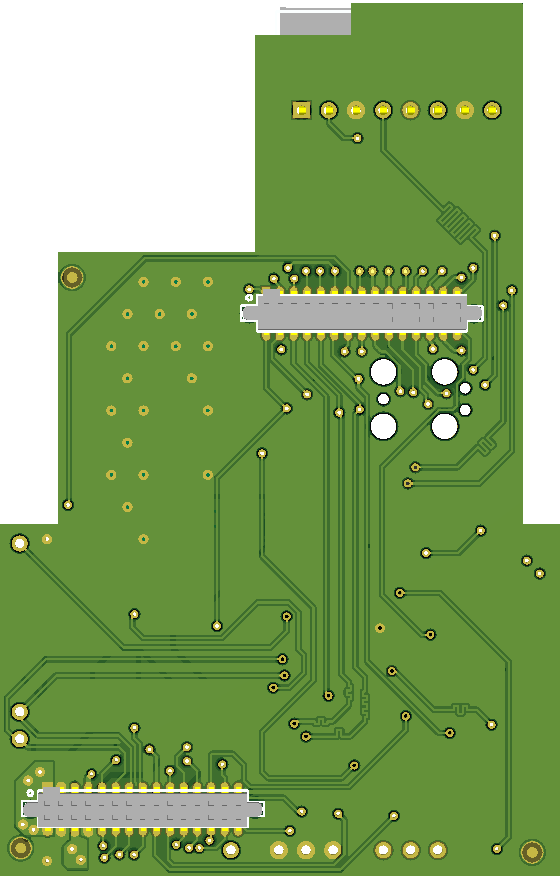
Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
X	205	0.35mm(14mil)	Plated	
+	6	0.71mm(28mil)	Plated	
△	18	0.90mm(35mil)	Plated	
◇	3	0.99mm(39mil)	Plated	
◇	4	1.42mm(56mil)	Non-Plated	
☆	4	2.37mm(93mil)	Plated	
240 Total				

Realistic View



Realistic View



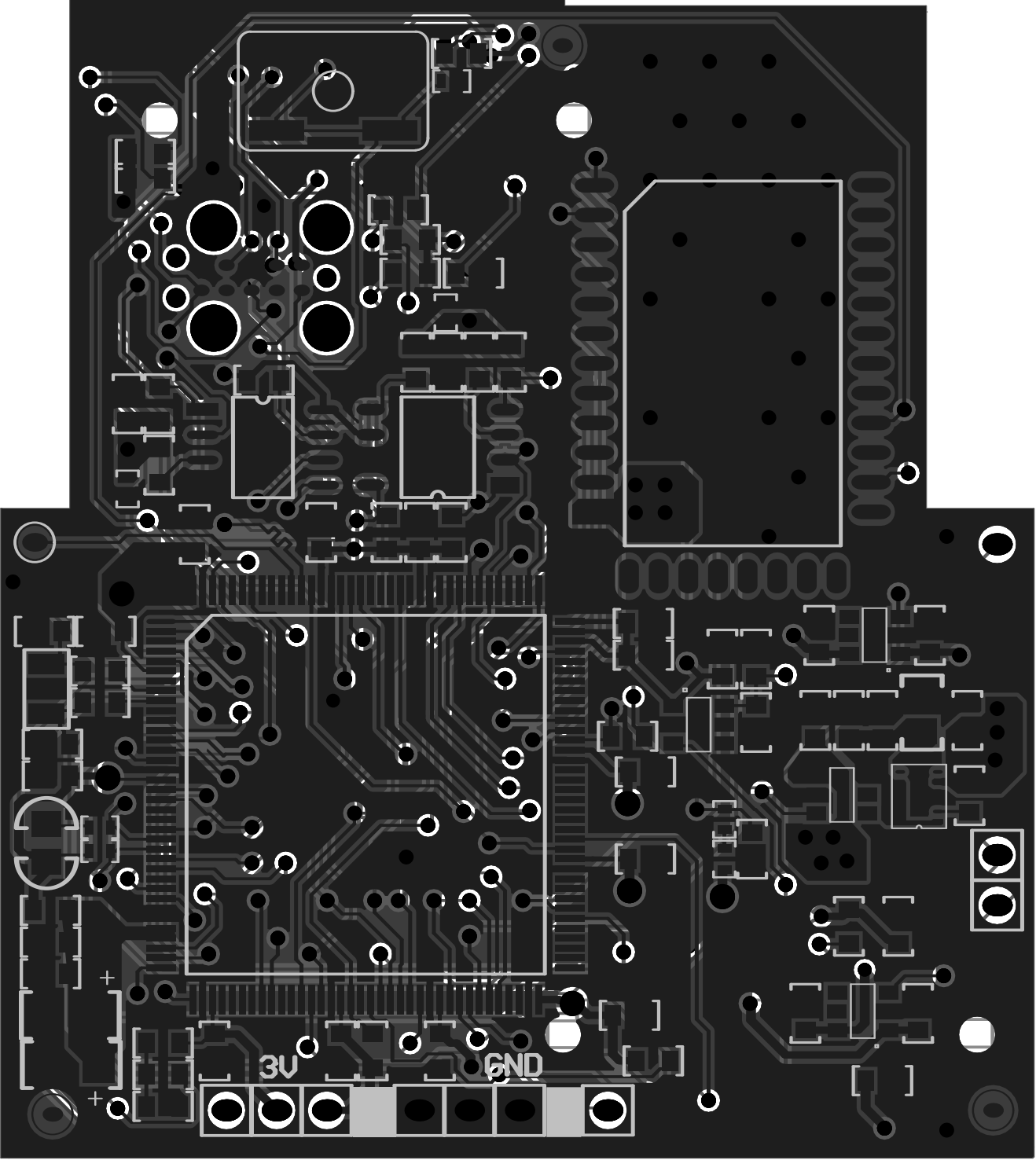
DebugAux

8



Canal
de Isabel II

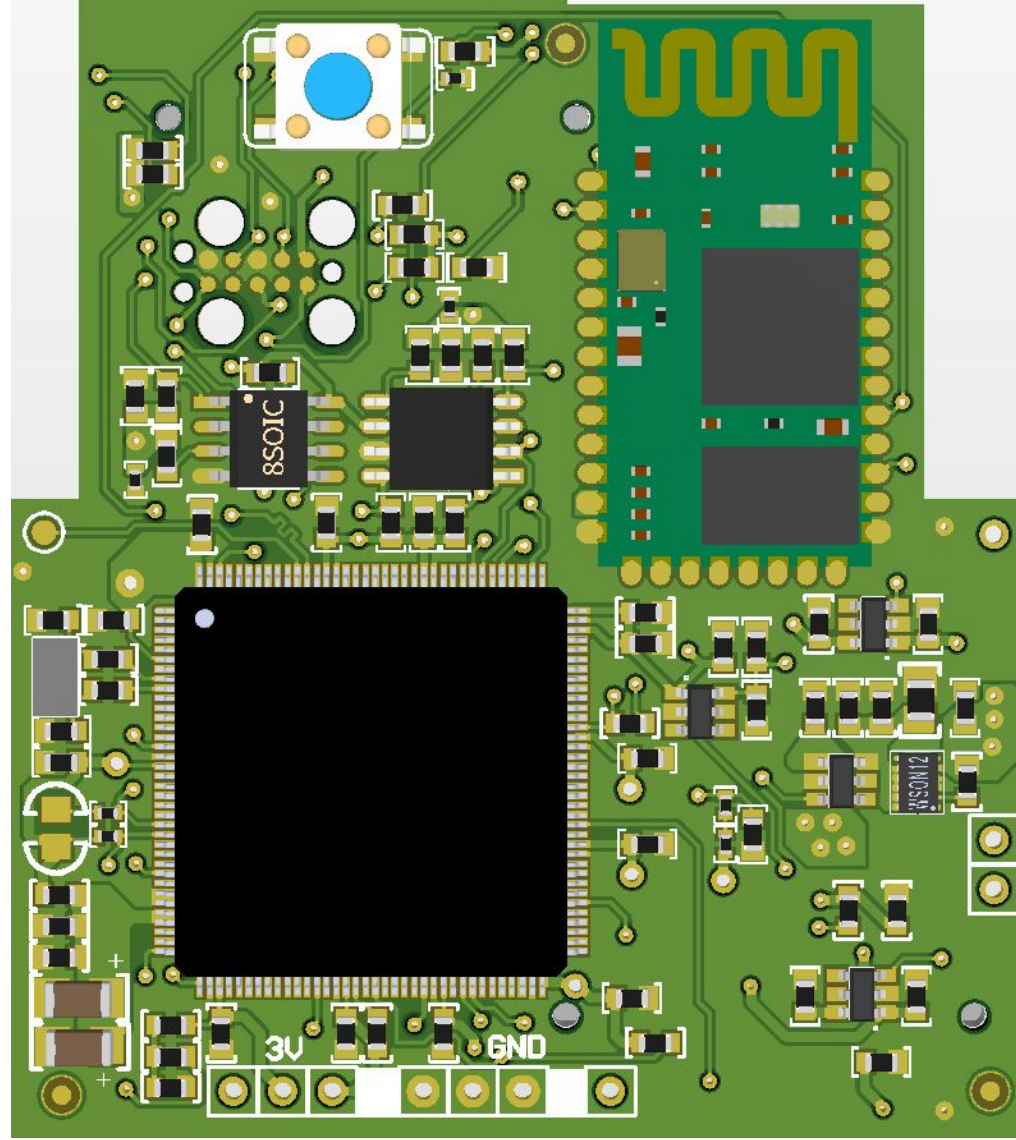
TopCore_v3.2





Canal
de Isabel II

TopCore_v3.2



DebugAux

8 LogoHydra Canal

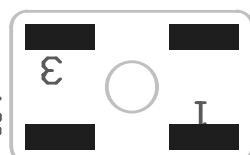


TopCore_v3.2

Reset

R3_116 TOP_Fiducial2

BOT_Fiducial2



R3_106
R3_107

Contact pin

R3_115

R3_109
R3_110

R3_108
R3_107

R3_106
R3_105

R3_104
R3_103

R3_102
R3_101

R3_100
R3_99

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R3_9

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R3_7

R3_6
R3_5

R3_4
R3_3

R3_2
R3_1

R3_0

R3_100

R3_101

R3_102

R3_103

R3_104

R3_105

R3_106

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R3_109

R3_110

R3_111

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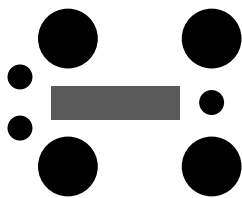
R3_330

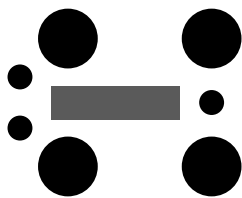
R3_331

R3_332

R3_333

R3_334





Logo Hydro Canal

Reset

R3_116

TOP_Fiducial2

BOT_Fiducial2

C3_120

U

R3_106
R3_107

correct pin

R3_115

R3_109

R3_110

Q3_100

R3_112

R3_111

R3_113

R3_114

R3_115

R3_116

R3_117

R3_118

R3_119

R3_120

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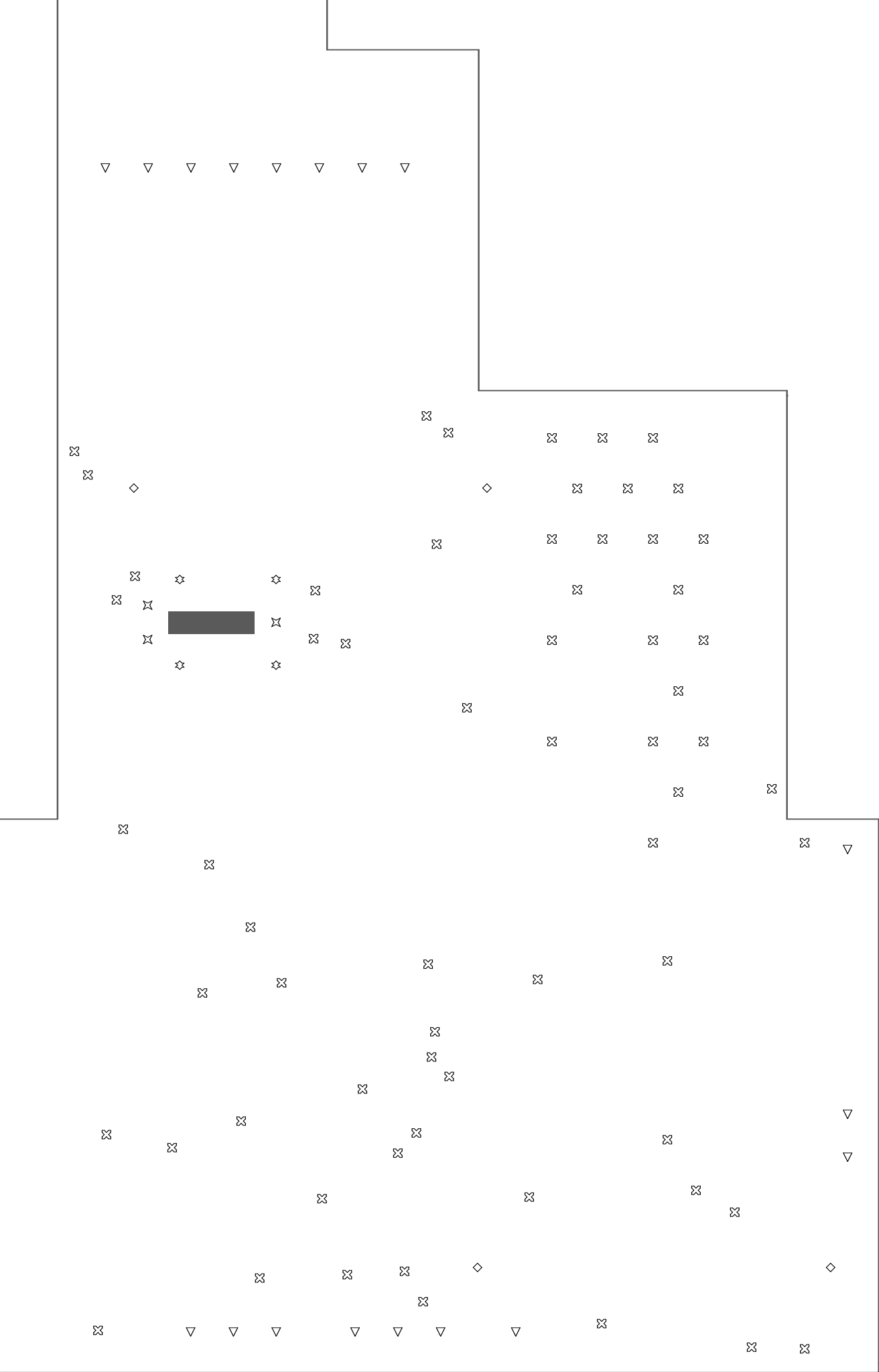
C3_377

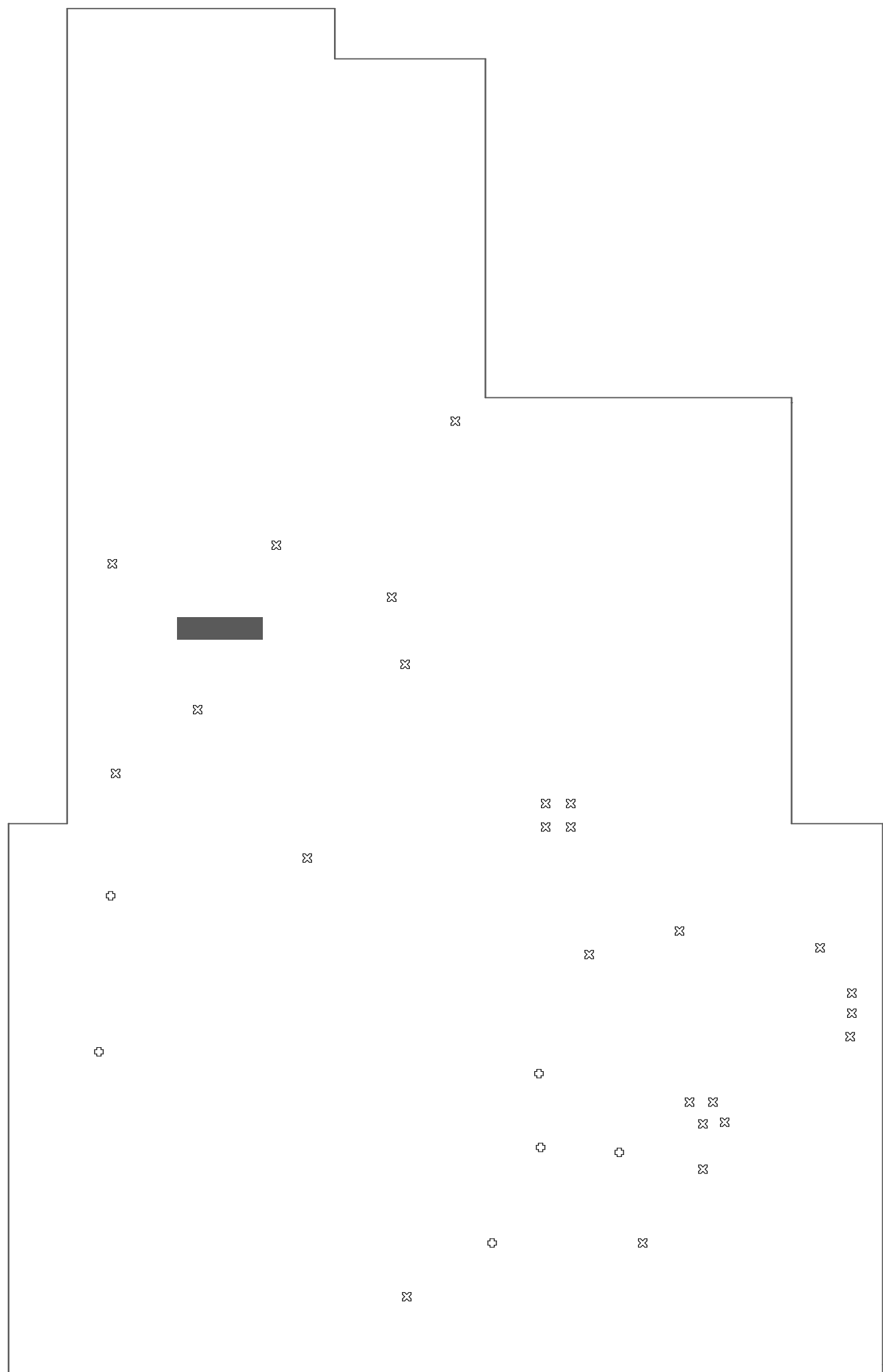
C3_378

C3_379

C3_380

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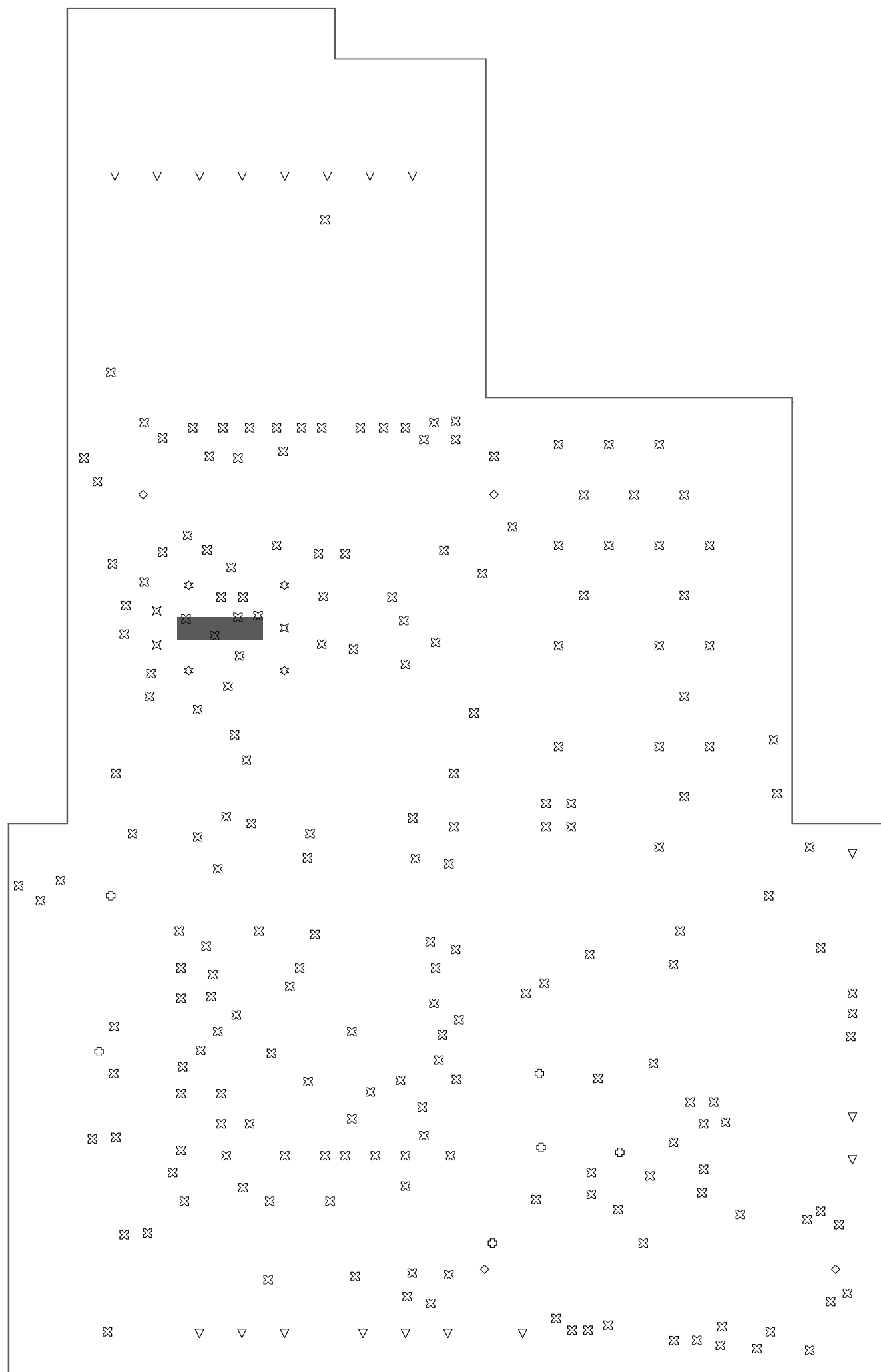


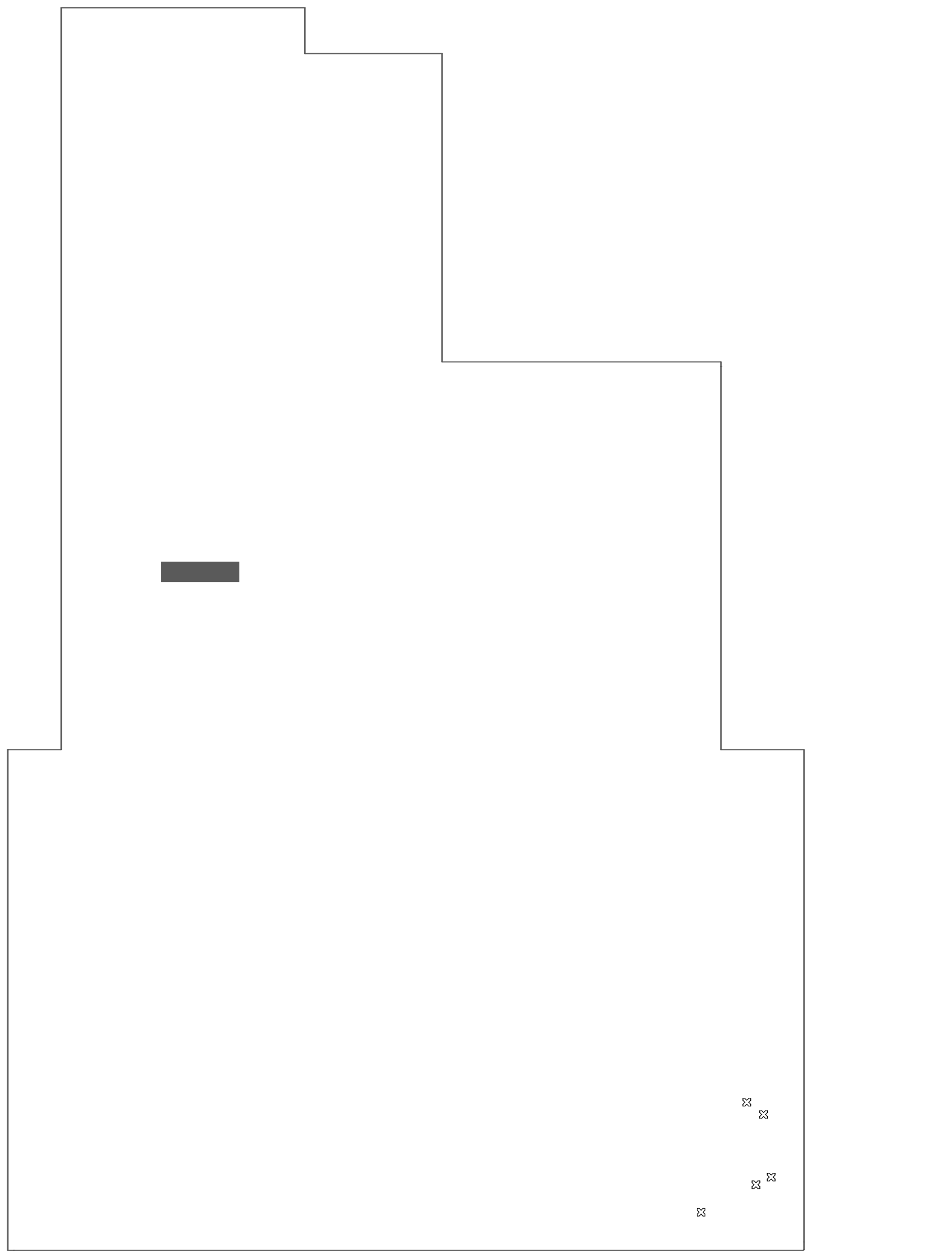


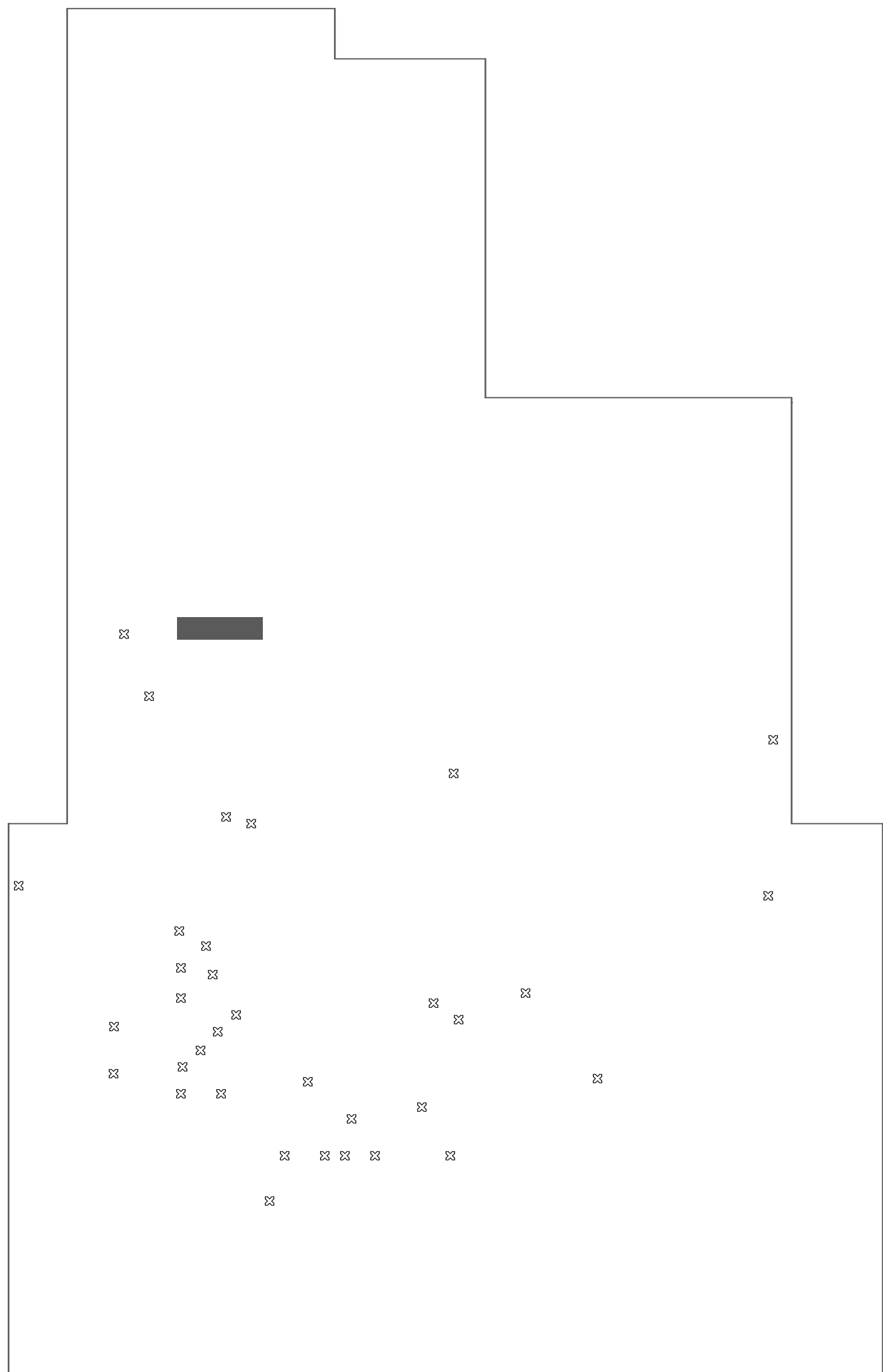
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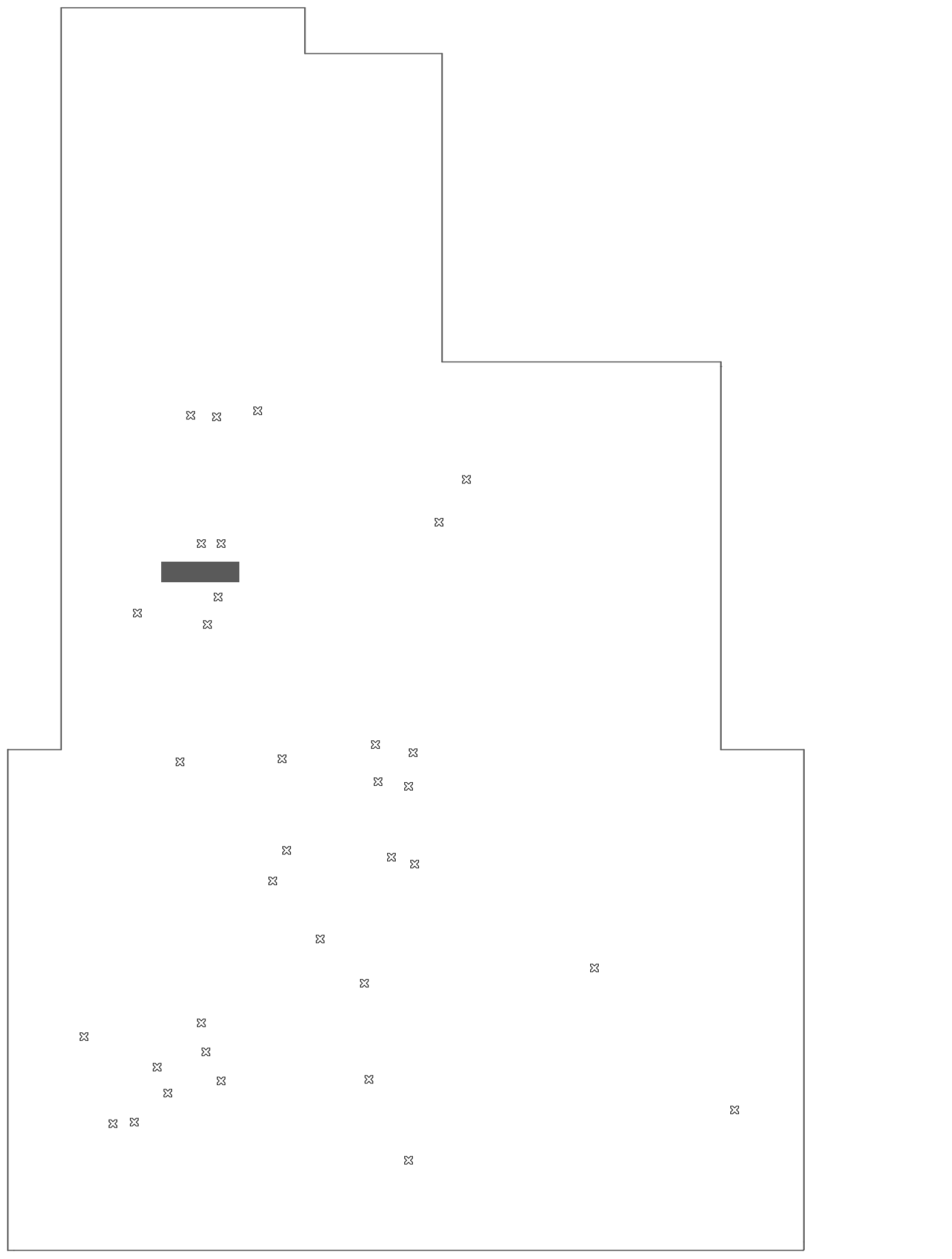
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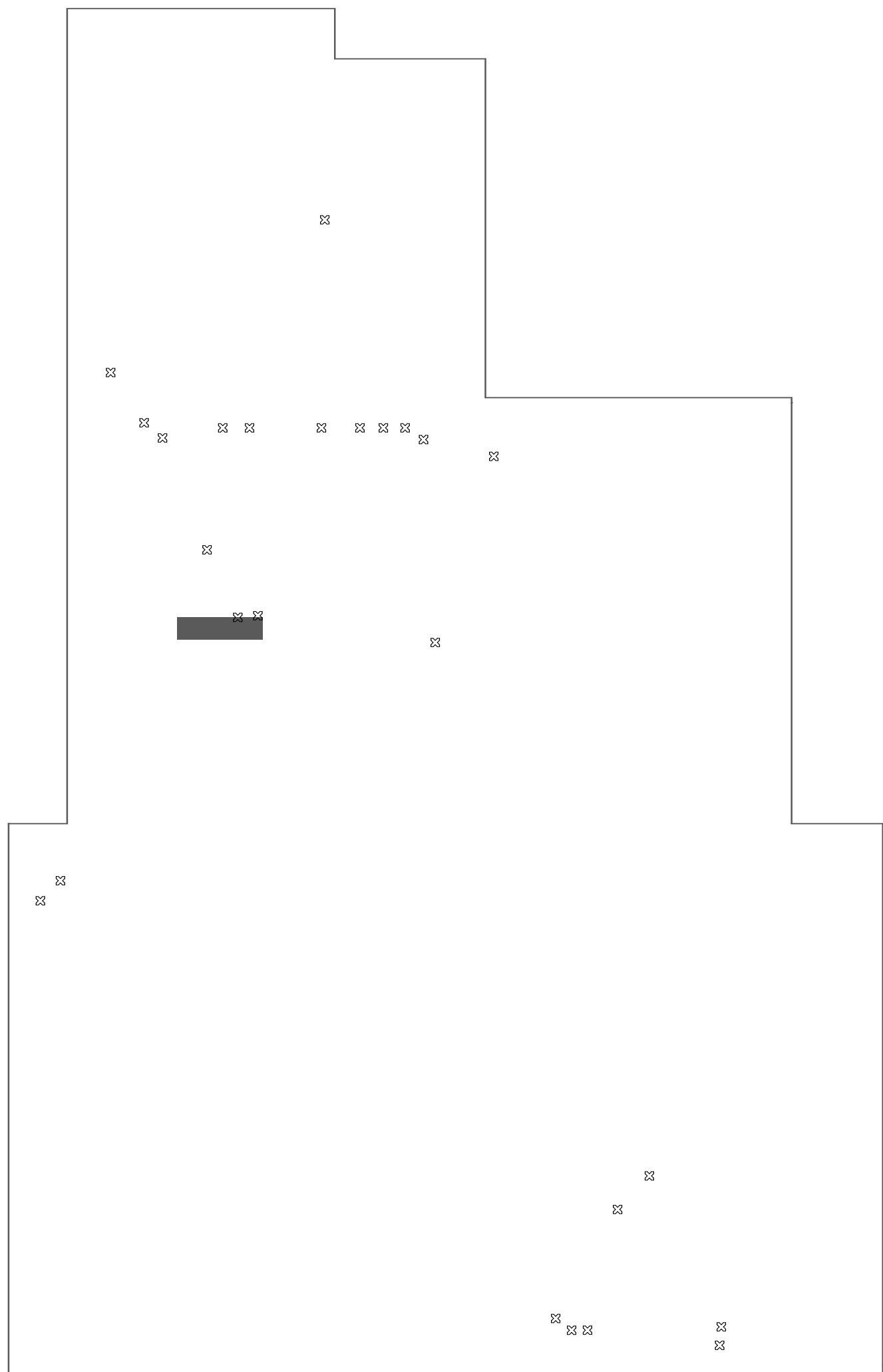












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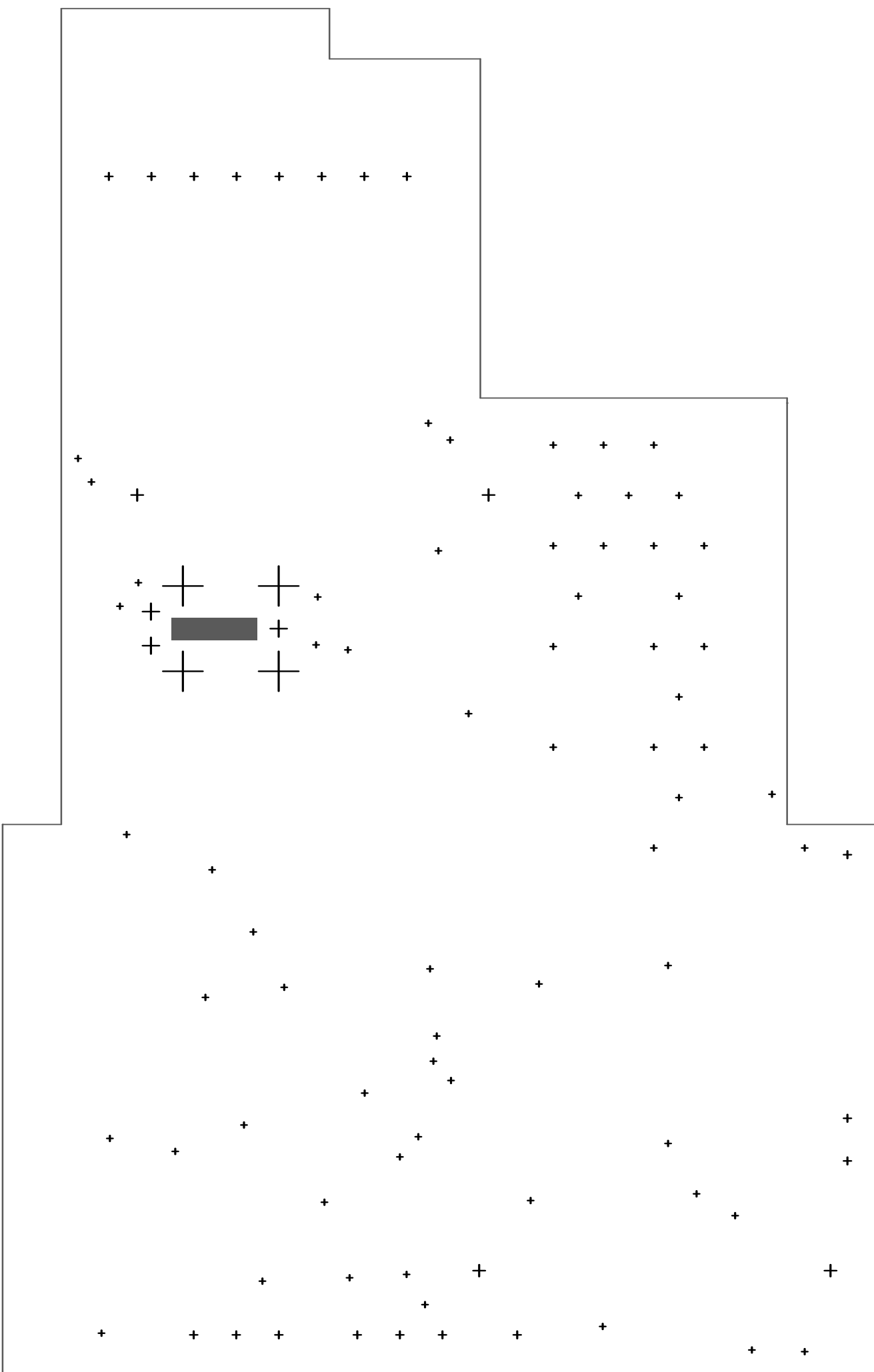
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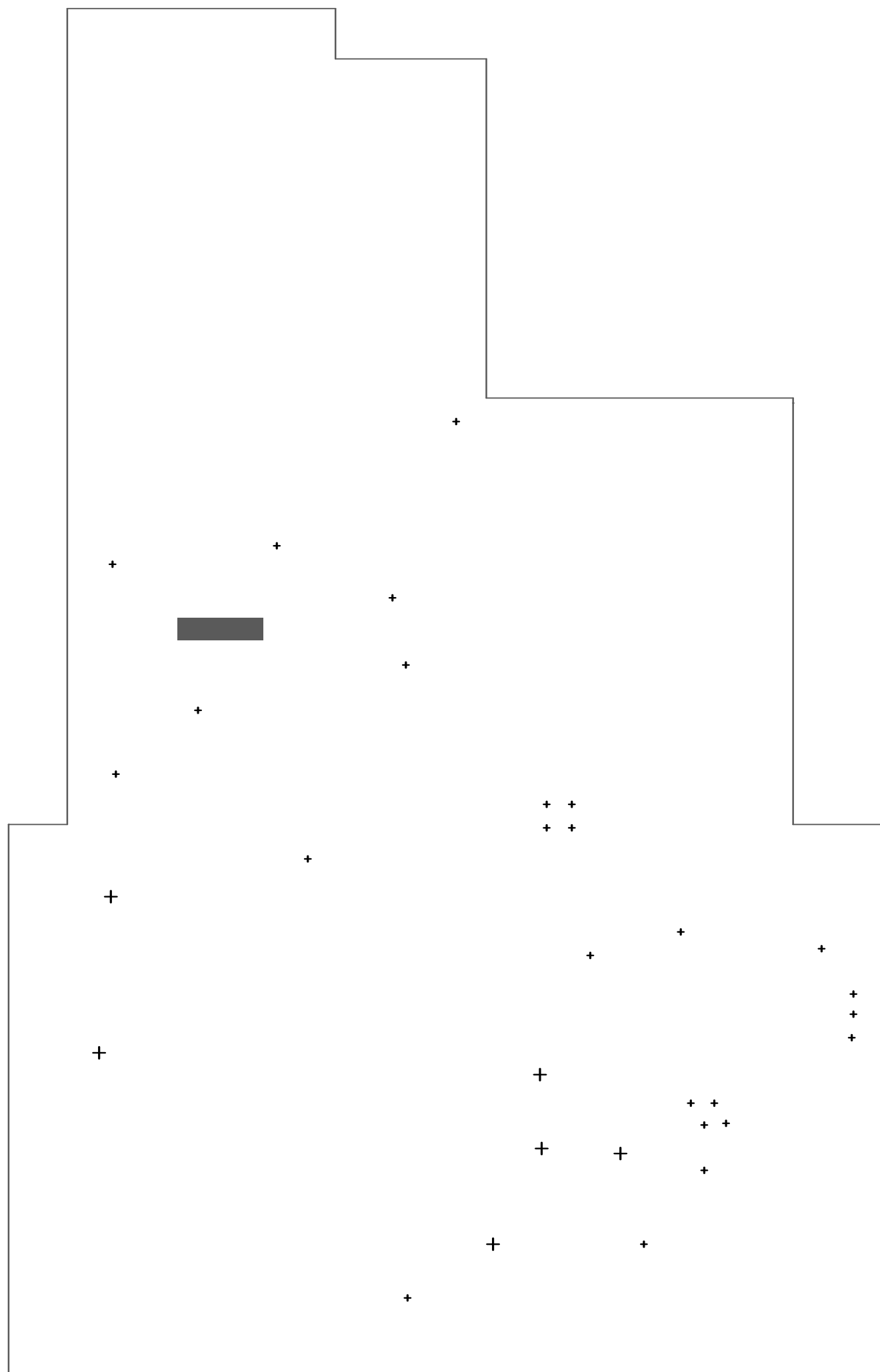
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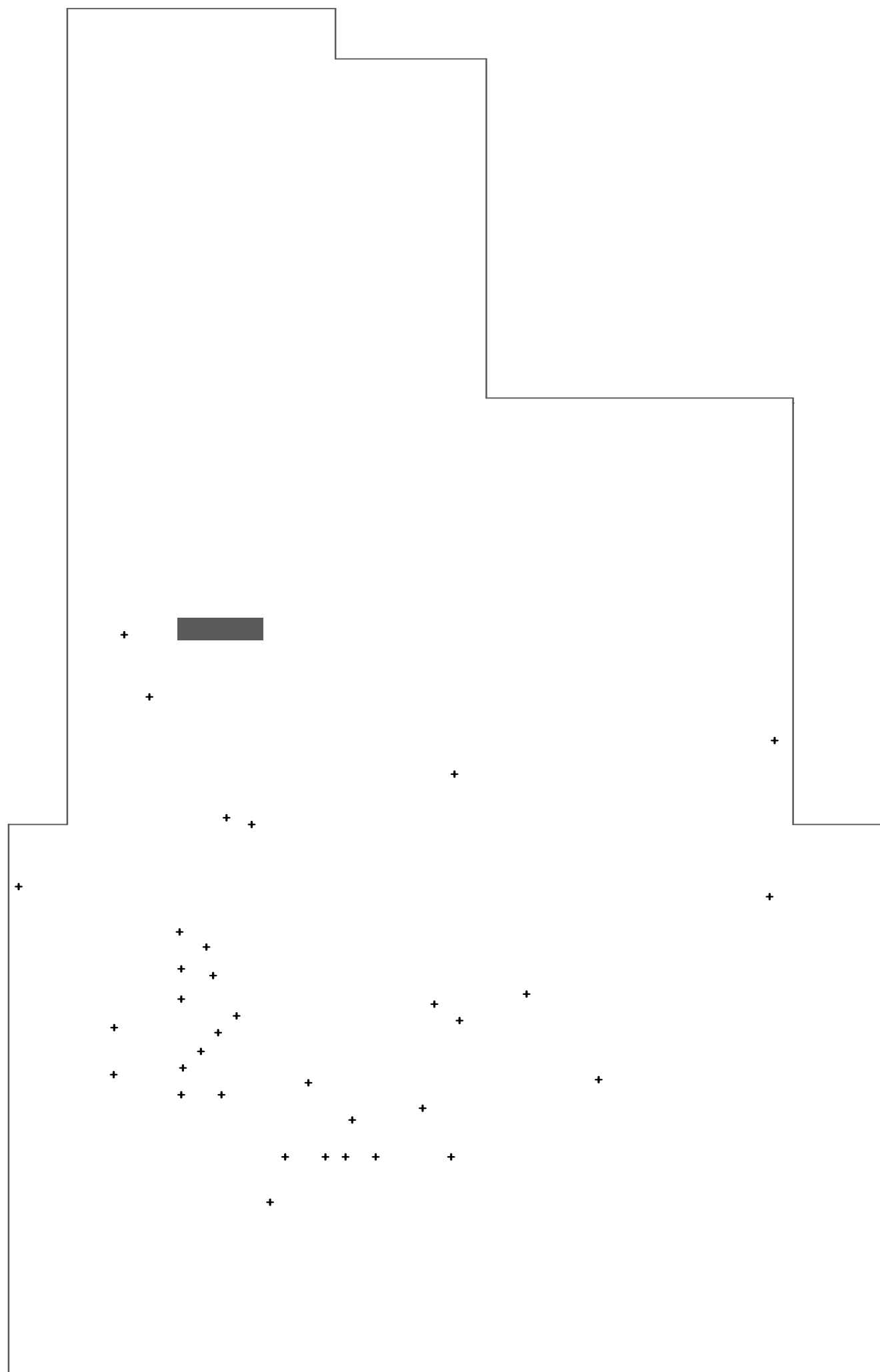


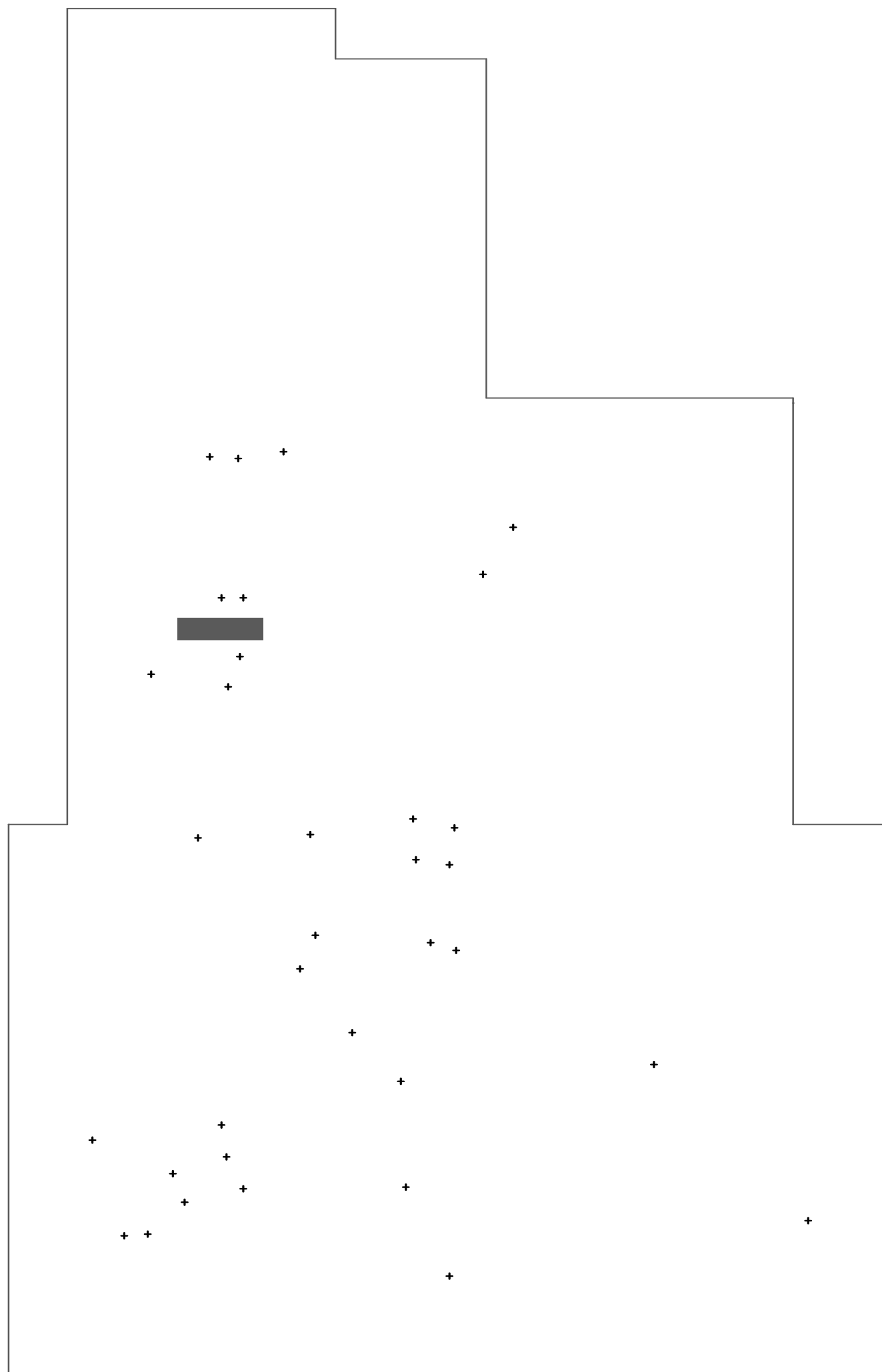
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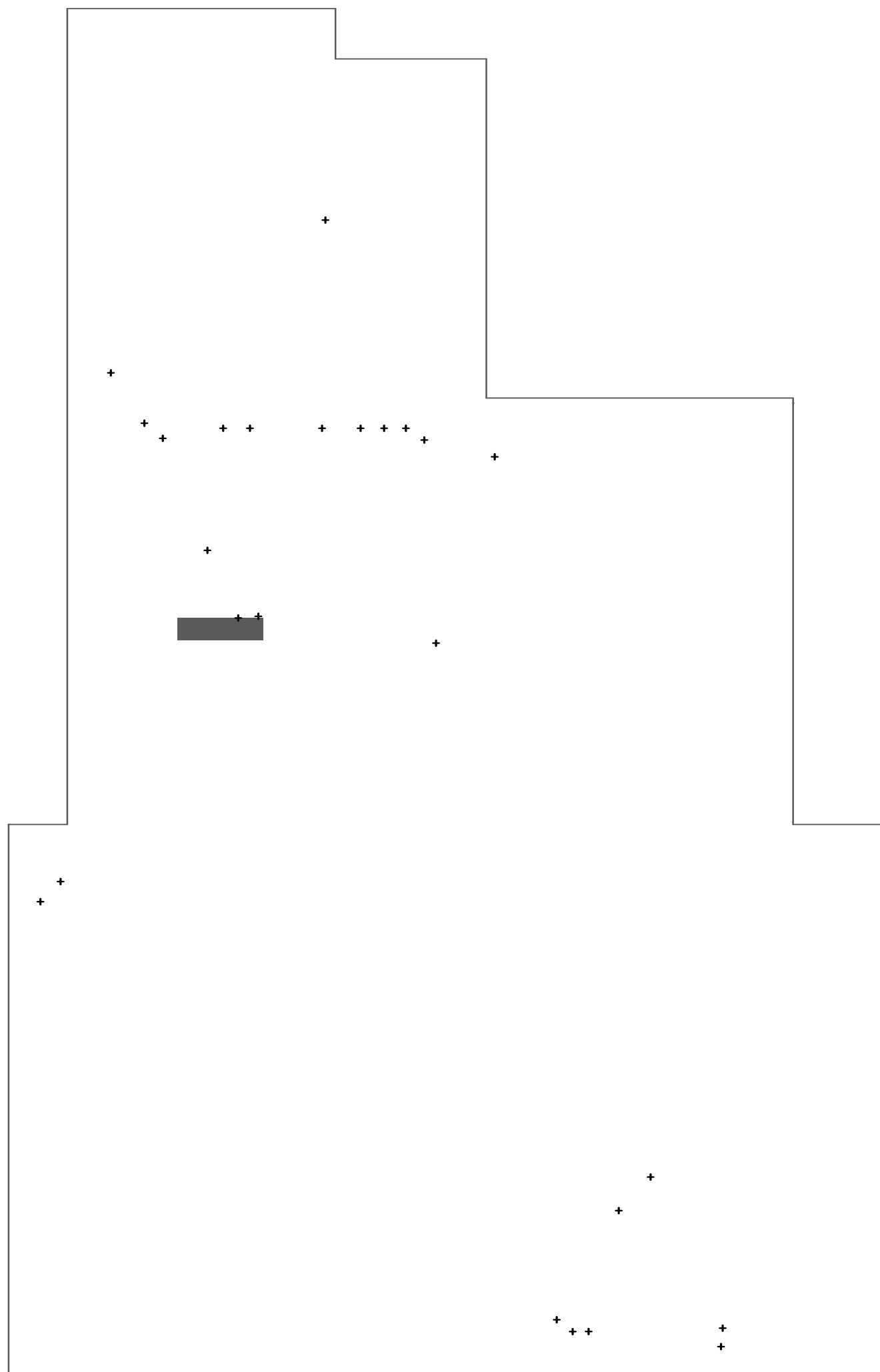
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Designator	Comment	Description	Footprint	LibRef	Quantity
3v_1, 3v_2, 3v_3, gnd2, gnd3, pa_4, pa_5, pa_6, pa_7, pa_8, pa_9, pa_14, pa_11, pa_12, pb, pb_1, pb_5, pb_6, pb_7, pb_8, pb_9, pb_10, pb_11, pb, pb_13, pb_14, pb, pc_1, pc_9, pc_10, pc_11, pc_13, pd, pd_6, pd_8, pd_1, pd_12, pd_13, pf, pf_1, pf_8, pf_9, pf_14, pg_2, pg_3, pg_4, pg_5, pg_6, pg_8, pg_9, pg_10, pg_11, spi1_sel_p, spi2_sel_pd_0, uart_cts_pd_5, uart_rts_pd_4	exposed pin	exposed pin	exposed pin trou hole	exposed pin	58
BOT_Fiducial1, BOT_Fiducial2, BOT_Fiducial3	Fiducial	Non-mountable component	FIDUCIAL BOTTO	Fiducial	3
C2_101, C2_102	Cap	6.3V 1uF x7r 10% 0603	0603	Cap	2
C2_201, C2_203	Cap	Cap 10uF 6.3 V 20% 0603	0603	Cap	2
C2_202	Cap	Cap 100uF 6.3V x5r 20% 0805	0805	Cap	1
C2_401, C2_501	Cap	Cap MLCC 0.1uF 6.3Vdc X7S 10% 0603	0603	Cap	2
C2_402, C2_502	Cap	Cap MLCC 1uF 6.3Vdc X5R 10% 0603	0603	Cap	2
C2_601, C2_701, C2_801	Cap	CAP, CERM, 1 uF, 16 V, +/- 10%, X5R, 0603	0603	Cap	3
C2_602, C2_702, C2_802	Cap	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X5R, 0603	0603	Cap	3
C3_101, C3_102, C3_103, C3_104, C3_105, C3_106, C3_107, C3_108, C3_109, C3_110, C3_111, C3_112, C3_113, C3_115	Cap	Capacitor, 100nF, 10%, 16V, X7R, 0603	0603	Cap	14
C3_114, C3_116	Cap	TAN Capacitor 1uF, 10%, 16V, A 1206	1206	Cap Pol2	2
C3_117	Cap	Capacitor, 1uF, 0603, 16V, 10%, X5R	0603	Cap	1
C3_118, C3_119	Cap	Capacitor, 4.7uF, 16V, X5R, 10%, 0603	0603	Cap	2
C3_120, C3_121	Cap	Multilayer Ceramic Capacitors MLCC SMD/SMT 16volts .1uF 20% X7R A	0402	Cap	2
C3_122, C3_123	2.7pF	Capacitor, 2.7pF, NPO, 50V, 0603	0603	CAP	2
contact pins	this pins need adapter TC2050-ARM2010 from v2 and the cable refer TC2050-1DC CBL PLUG NAILS 10-PIN W/LEGS	stlink programer contact pins. On Non-mountable component	TC2050-1DC with pin contact	stlink2 programm vias	1
DebugAux	IPL1-108-01-F-S-RA-K	SAMTEC IPL1-108-01-F-S-RA-K.	BOARD 2 WIRE	Header 8	1
Frontal Program	SAMTEC MMSS-08-20-06-00-S-K	Additional cable: SAMTEC MMSS-06-00-S-K	FIDUCIAL BOTTO	Fiducial	1
J3_101	Jumper 1x2	Non-mountable component	Jumper SMD 0805	Jumper 1x2	1
L2_201	LOM18PZ2R2MCHD	murata LOM18PZ2R2MCHD nduct 0603 2.2uH +/-20% 750mA Rdc = 0.001 Ohm	0603	Inductor	1
L3_101		bead MULTILYR CHP BD 0603 600 taiyo yuden ref: BK1608HW601-T ALTERNATIVA: HZ0603C601R-10	0603	Inductor	1
Logo Canal	PCB printed logo	Non-mountable component	Logo CYII Pequeno	Fiducial	1
Logo Hydra	PCB printed logo	Non-mountable component	Logo Hydra Pequeno	Fiducial	1
NJTR51	TP	Only printed - Non-mountable component	footprint SMD	TP	1
OSC32	NX32155A-32.768KHZ-EXS00A-MU00525	Crystal, NX32155A-32.768KHZ-EXS00A-MU00525, 32.768K, 6PF, 3215, 9157	Crystal, NX32155A-32.768KHZ-	CRYSTAL_32K	1
R3_101, R3_102, R3_103, R3_104, R3_105, R3_109, R3_110, R3_111, R3_114, R3_120, R3_121, R3_127, R3_128, R3_129, R3_106, R3_107, R3_108		Res 10k 0.5% 1/3 W 0603	0603	Res1	14
R3_112, R3_113		Res 2k 0.1% 1/16 W 0603	0603	Res1	3
R3_115, R3_116, R3_117, R3_124, R3_125, R3_126		Res 10k 1% 1/16 W 0402	0402	Res1	2
R3_118, R3_130		Res 0 ohm 1/10 W 0603	0603	Res1	6
R3_119	Res1	Res 51k 1% 1/10 W 0603	0603	Res1	2
R3_123	Res1	res SMD 100 ohm 1% 0402	0402	Res1	1
Reset	SKRAAKE010	NOT mounted	0603	Res1	1
TOP_Fiducial1, TOP_Fiducial2, TOP_Fiducial3		6.2x6.2 mm SMD tact switch, sam 0091 but less force is needed. Can be ordered in low volumes from Mou	smd switch - dupli	Switch 4 pins	1
U1_1, U1_2	Header 15X2	Header, 15-Pin, Dual row SAMTEC SFM-115-02-L-D-A	Samtec SFM-115-D-A	Header 15X2	2
U2_1	TPS22917	Load Switch External Ood and Sle control	SOT23-6	TPS22917	1
U2_2	TPS62740	Ultra Low Iq High Efficiency LDO	WSON12	TPS62740	1
U2_3	SH-HC-06	Bluetooth to Serial UART Interfac BLUETOOTH-SERIAL-HC-06 Fabr: Fabref: BLUETOOTH-SERIAL-HC-0 module ref: 909-BLE-SERIAL-HC-06	HC-06 Bluetooth module	SH-HC-06	1
U2_4	EEPROM	AT25M02-SSHM-T EEPROM 1.7-5.2Mbit	SOIC-8	AT25M02-SSHM-T	1
U2_5	AT45DB321E-SHF-B	Adesto Technologies AT45DB321E Flash NOR 32M, 85MHz 2.3-3.6V	852 EIAJ SOIC	NOR FLASH AT45DB321E-SHF	1
U2_6, U2_7, U2_8	TPS22917	Load Switch External Ood and Sle control TPS22917 DBVR sot23-6	SOT23-6	TPS22917	3
U3_1	STM32L4R5ZI16	STM32L4R5ZI16 144 pines	LOFP144B	STM32L4R5ZI	1