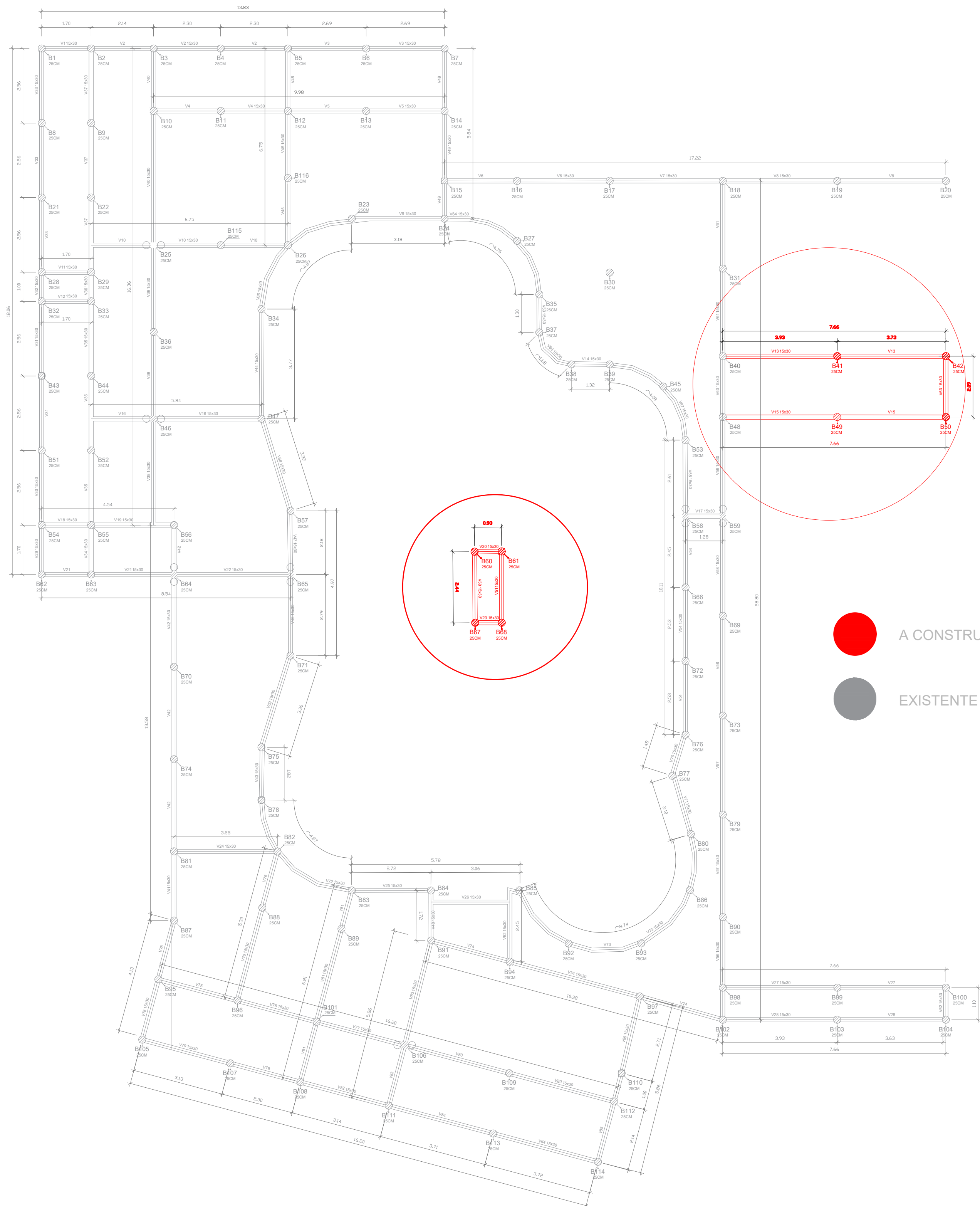
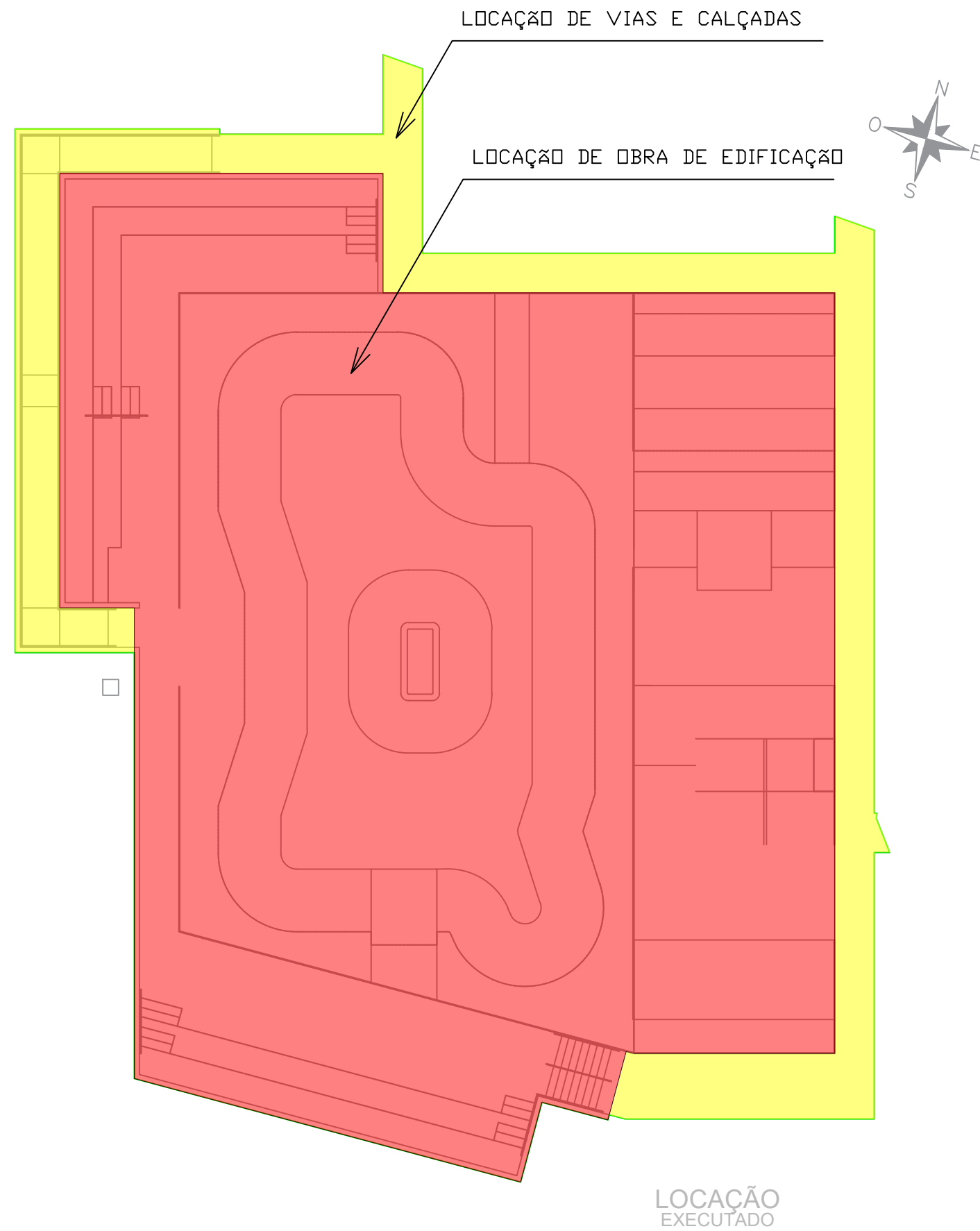




BROCAS - DIÂMETRO 25CM



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Lorena
PREFEITURA

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PROJETO

PISTA DE SKATE
CENTRO MUNICIPAL DE EVENTOS

ENDEREÇO
ESTRADA MUNICIPAL CHIQUITO DE AQUINO, Nº 135, MONDESIR, LORENA, SP - CEP: 12612-550

TÍTULO	CÓDIGO	FOLHA
ESTRUTURAL	ARQ	01/07

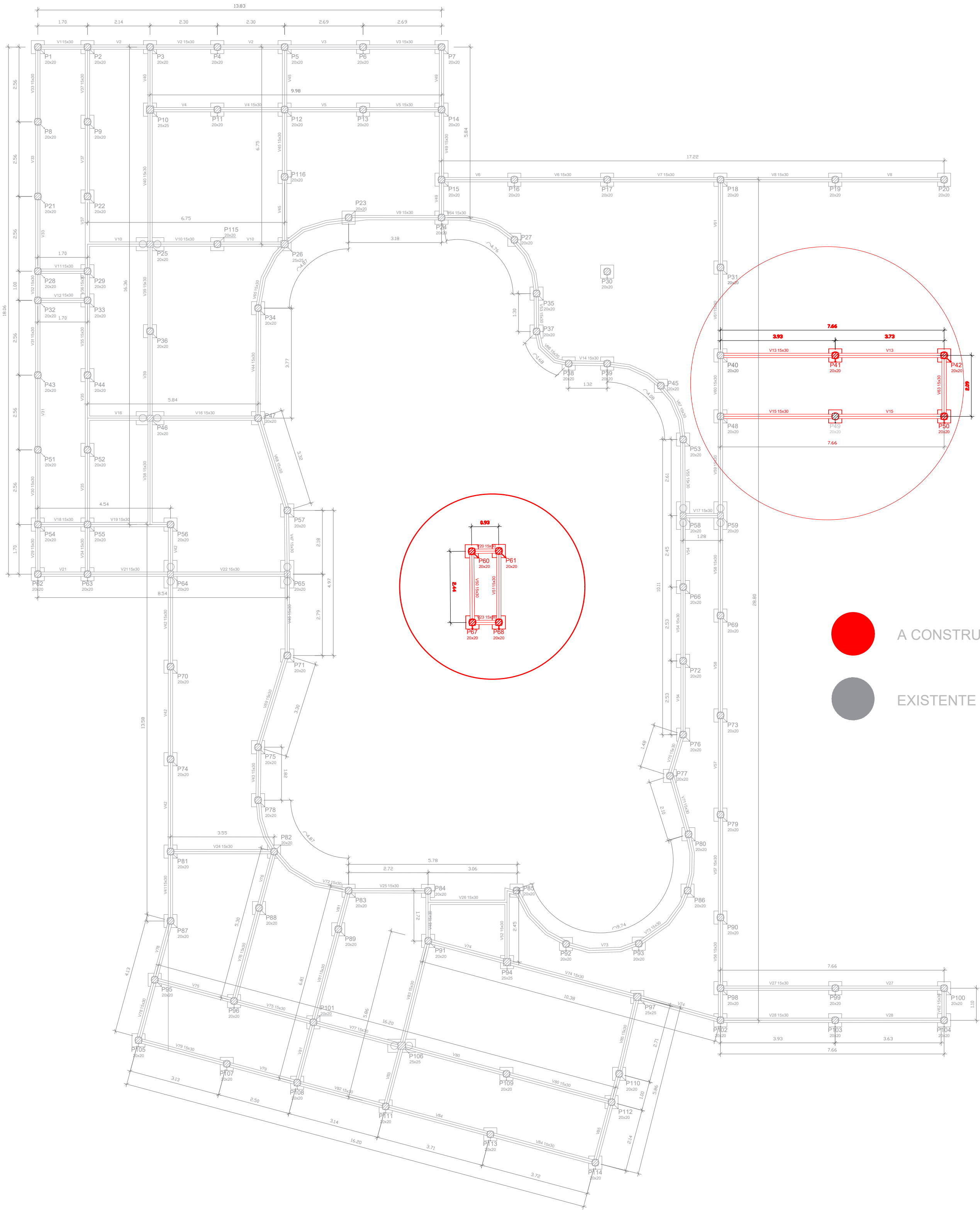
ASSUNTO	ESCALA NOMINAL
PILARES - RECURSOS PRÓPRIOS - A EXECUTAR E EXISTENTE	INDICADA
	DATA MARÇO/2025

ASSINATURAS

SYLVIO BALLERINI Prefeito Municipal de Lorena	ENGº ROSANA REIS ALVES CORRÊA Secretária de Obras e Planejamento Urbano
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FERNANDO CESAR LEMOS DA SILVA RAMOS
Engenheiro Civil CREA 5060459953
Responsável técnico ART: 2620240585299

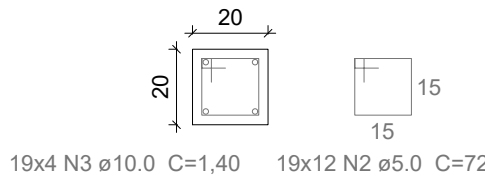
ESPAÇO PARA APROVAÇÃO



H=1,40M

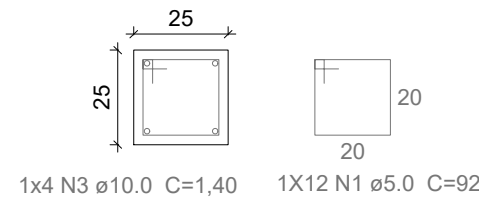
=P23
=P34
=P65=P65'
=P47=P57
=P60=P61=P67=P68
=P71=P75=P78
=P82=P83=P88
=P89
=P115=P116

ESC 1:20



P26

ESC 1:20

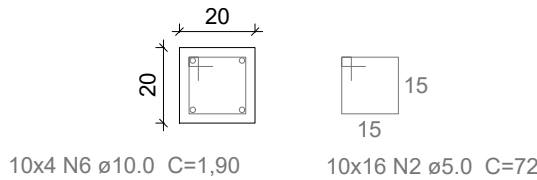


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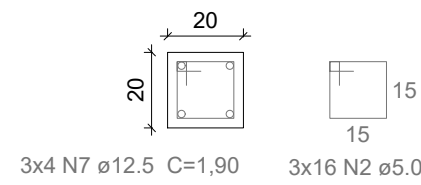
ESC 1:20

P11=P12=P13
=P14
=P36=P46
=P96=P101
=P109=P110

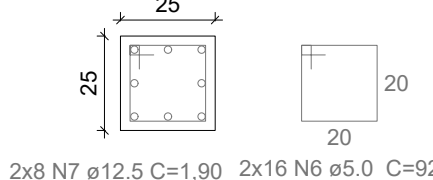
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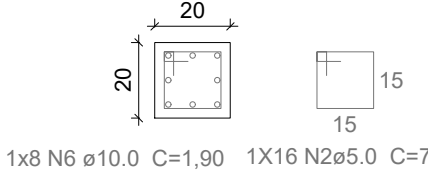
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P10=P106



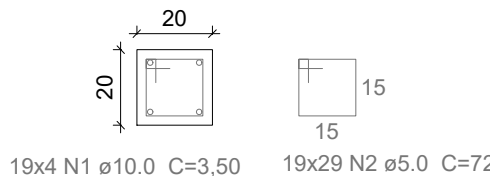
P112



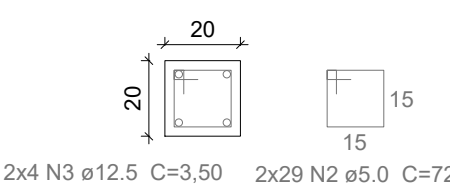
H=3,50M

ESC 1:20

P1=P2=P3=P4=P5=P6=P7=P8=P9
=P22
=P29=P33
=P44
=P52
=P105=P107=P108=P111
=P113



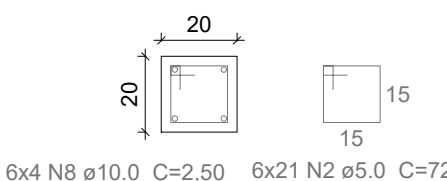
P55=P114



H=2,50M

=P70=P74
P81=P87
P64=P64'

F - L1
ESC 1:20



Relação do aço

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
H=1.40	3	10.0	80	140	11200
	2	5.0	240	72	17280
	1	5.0	12	92	1104
H=1.70	4	10.0	144	170	24480
	5	12.5	32	170	5440
	2	5.0	518	72	37292
	1	5.0	28	92	2576
H=1.90	6	10.0	48	190	9120
	7	12.5	28	190	5320
	2	5.0	208	72	14976
H=2.50	8	10.0	24	250	6000
	2	5.0	126	72	9072
H=3.50	9	10.0	76	350	26600
	10	12.5	8	350	2800
	2	5.0	609	72	43776

Resumo do aço

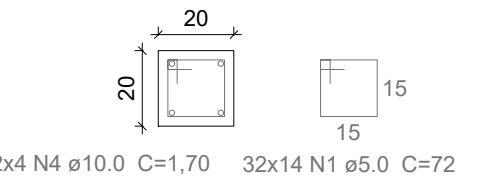
AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	10.0	781.6	482.2
CA60	12.5	135.60	130.6
CA60	5.0	1290.20	198.7
PESO TOTAL (kg)			
CA50		612.8	
CA60		198.7	

Volume de concreto (C-20) = 8.68 m³
Área de forma = 91,72 m²

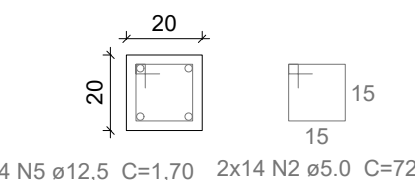
H=1,70M

ESC 1:20

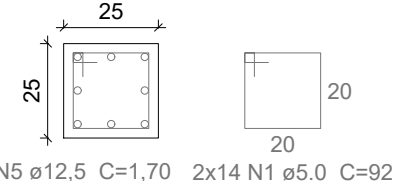
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=P24=P27=P30=P31
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=P80=P84=P86
=P92=P93=P98=102



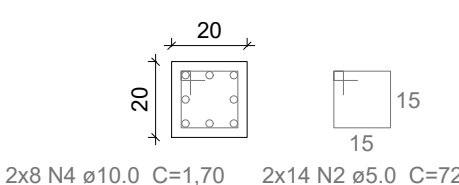
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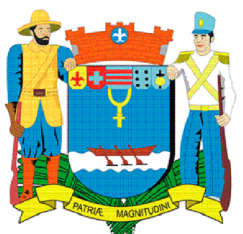
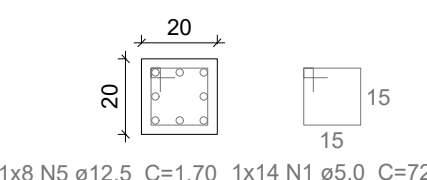
P94=P97



P17=P90



P91



Secretaria Municipal
Obras e Planejamento Urbano

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PROJETO

PISTA DE SKATE CENTRO MUNICIPAL DE EVENTOS

ENDEREÇO
ESTRADA MUNICIPAL CHIQUITO DE AQUINO, Nº 135, MONDESIR, LORENA, SP - CEP: 12612-550

TÍTULO
ESTRUTURAL

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ARQ

FOLHA
02/07

ASSUNTO

**PILARES - RECURSOS PRÓPRIOS -
A EXECUTAR E EXISTENTE**

ESCALA NOMINAL
INDICADA

DATA
MARÇO/2025

ASSINATURAS

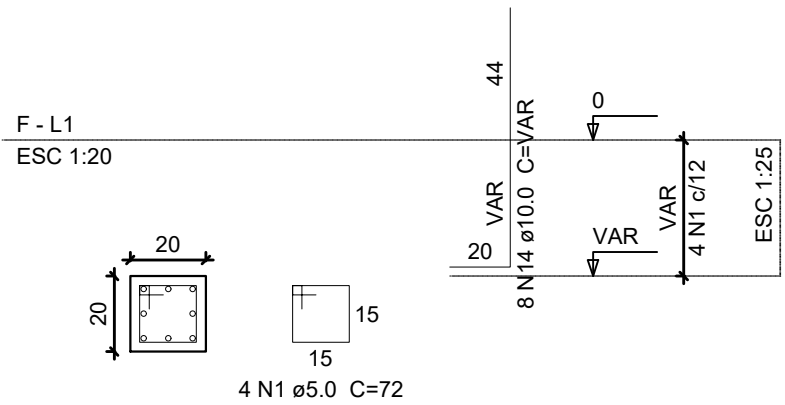
SYLVIO BALLERINI
Prefeito Municipal de Lorena

ENGº ROSANA REIS ALVES CORRÊA
Secretária de Obras e Planejamento Urbano

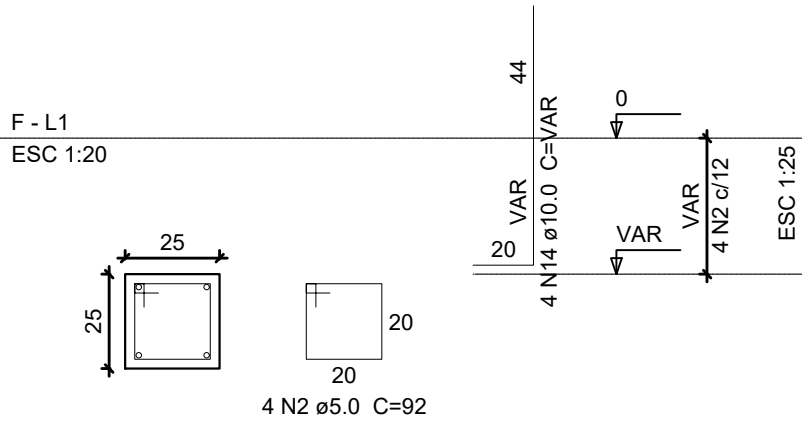
FERNANDO CESAR LEMOS DA SILVA RAMOS
Engenheiro Civil CREA 5060459953
Responsável técnico ART: 2620240585299

ESPAÇO PARA APROVAÇÃO

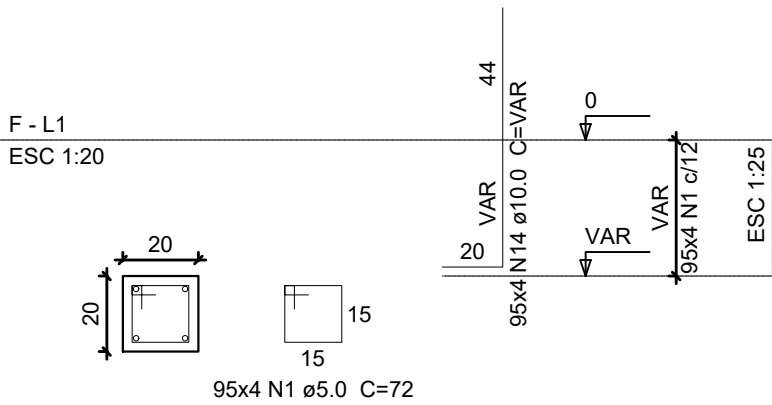
P112



P26



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=P113=P115=P116

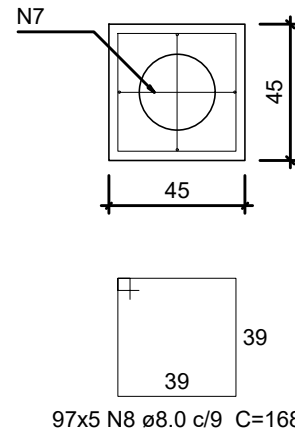


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1xØ 25

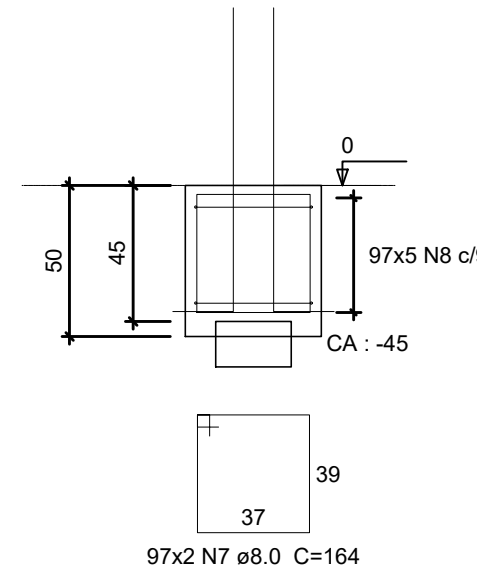
PLANTA

ESC 1:25

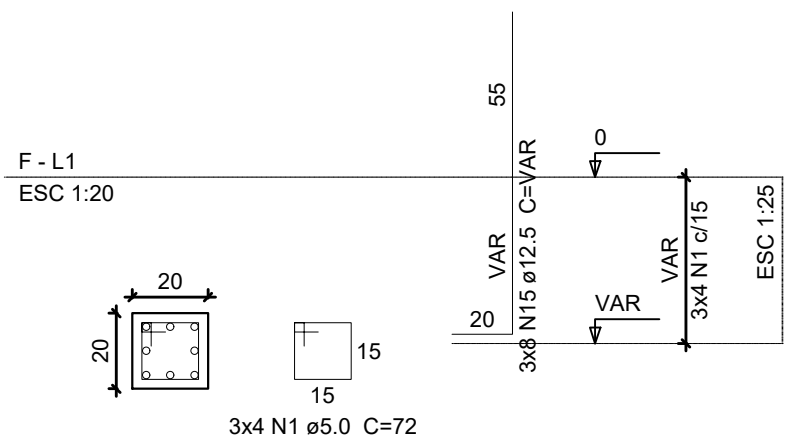


CORTE

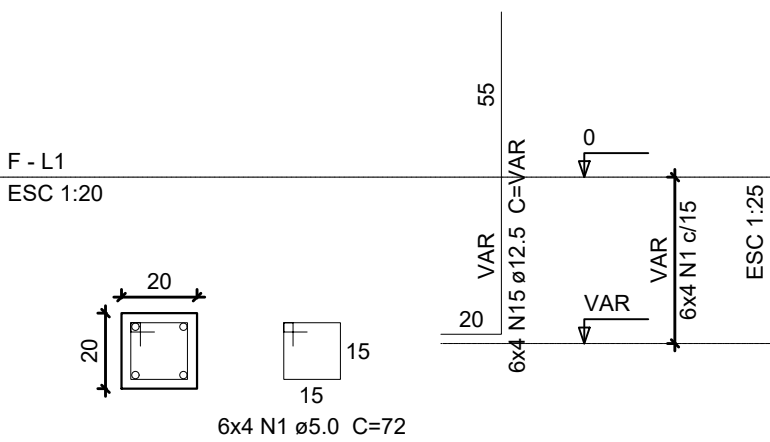
ESC 1:25



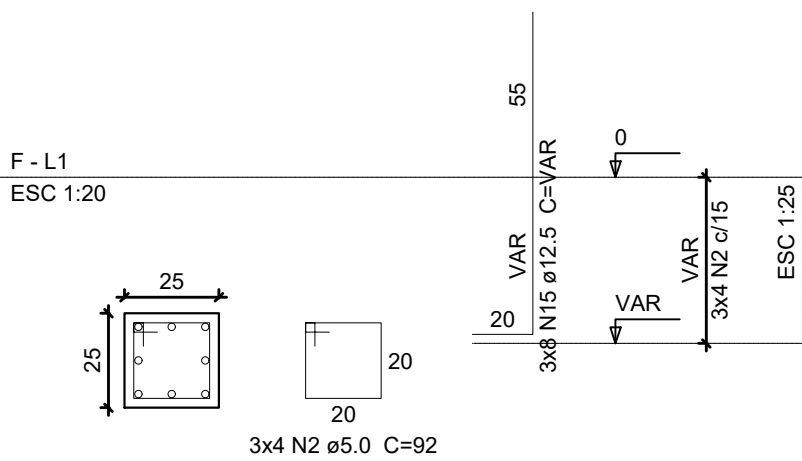
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P39=P55=P56=P85=P95=P114



P10=P94=P97



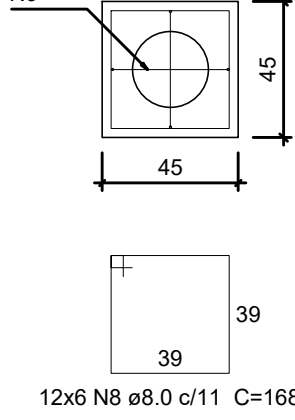
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=B97=B114

1xØ 25

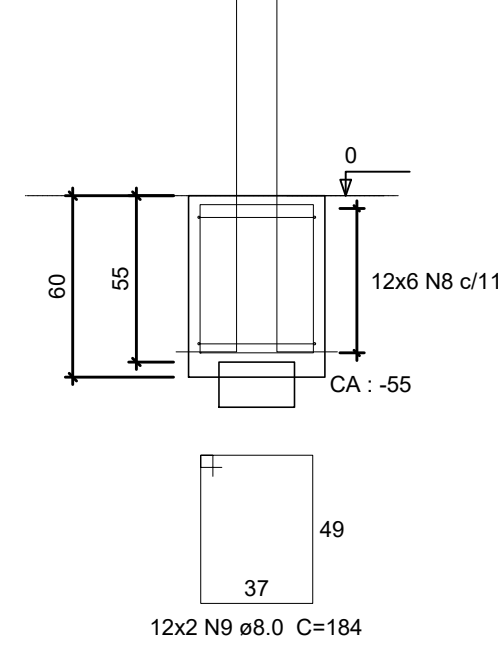
PLANTA

ESC 1:25

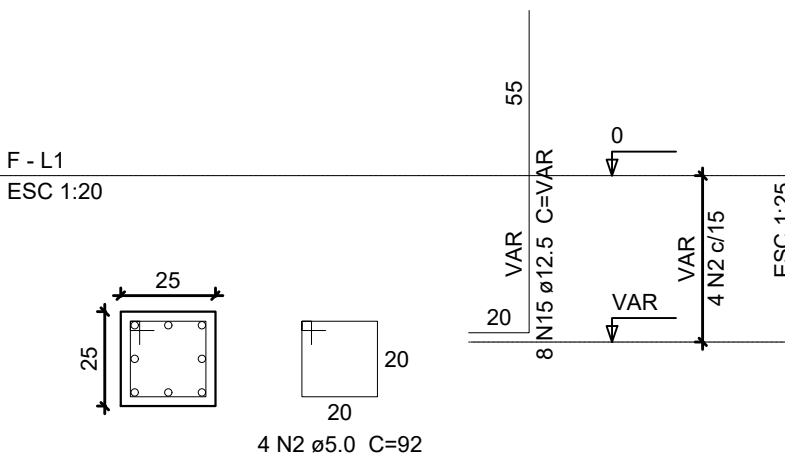


CORTE

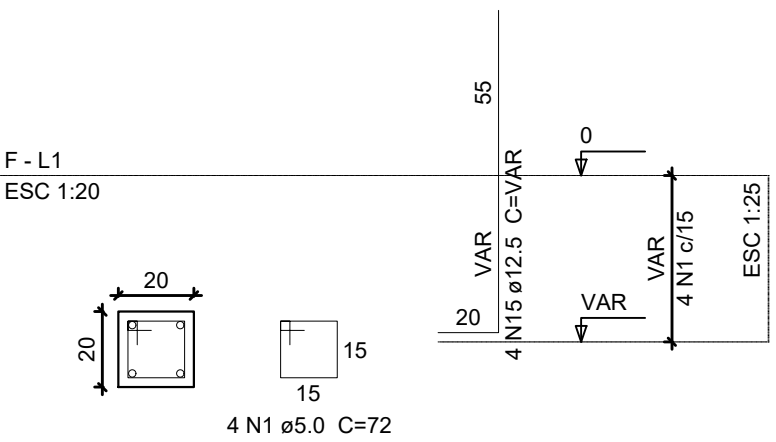
ESC 1:25



P106



P25

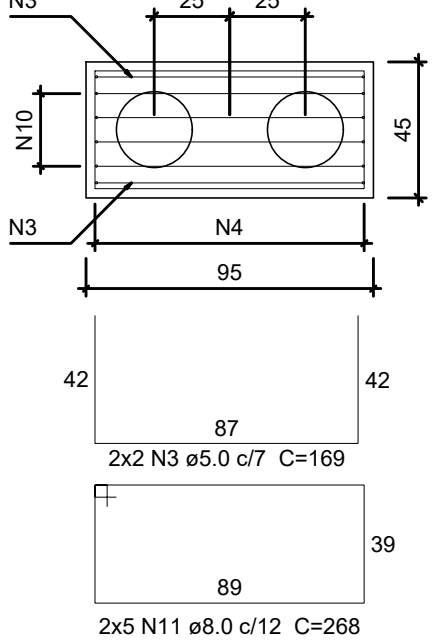


B25=B106

2xØ 25

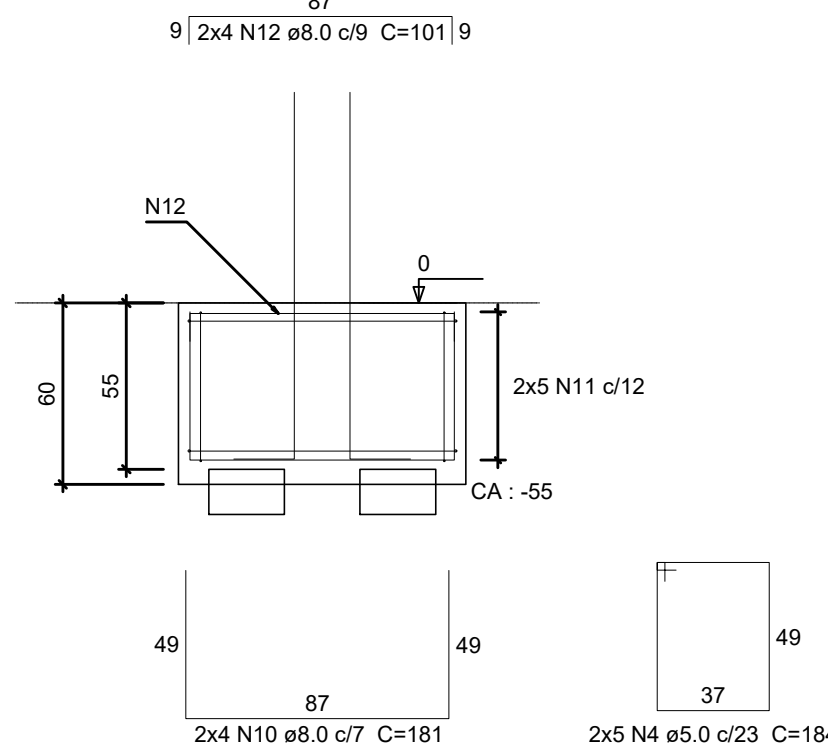
PLANTA

ESC 1:25

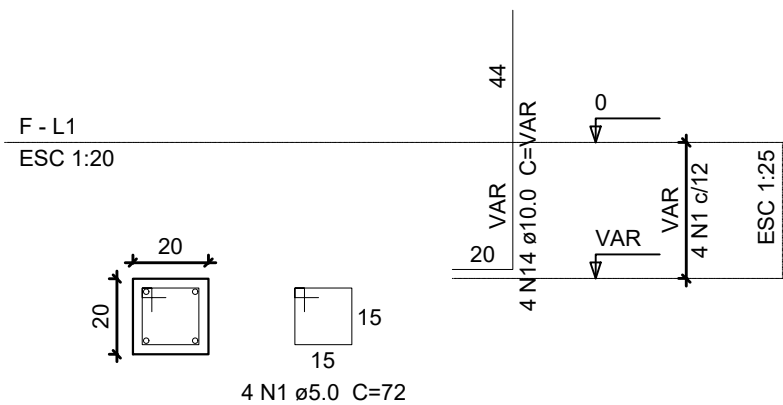


CORTE

ESC 1:25



P46=P58=P59=P64=P65

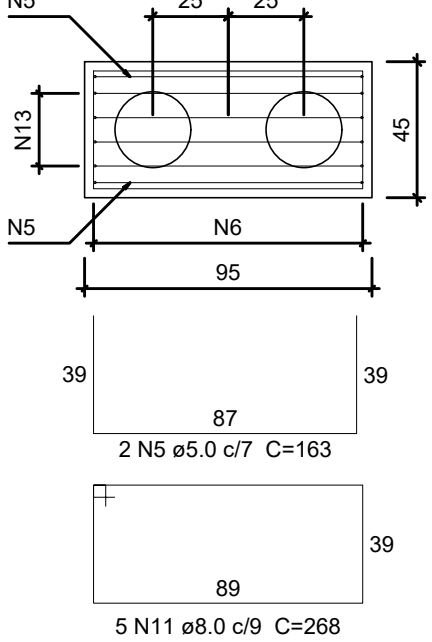


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2xC 25 8m

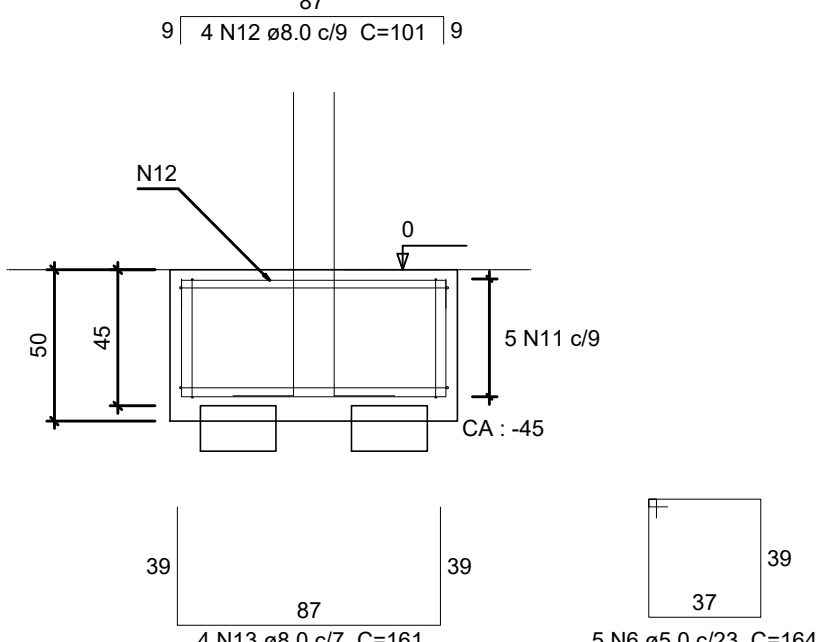
PLANTA

ESC 1:25



CORTE

ESC 1:25



Relação do aço

5xØ65 B116 B106 B114

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	444	72	31968
	2	5.0	20	92	1840
	3	5.0	4	169	676
	4	5.0	10	184	1840
	5	5.0	10	163	1630
	6	5.0	25	164	4100
CA50	7	8.0	194	164	31816
	8	8.0	557	168	93576
	9	8.0	24	184	4416
	10	8.0	8	181	1448
	11	8.0	35	268	9380
	12	8.0	28	101	2828
	13	8.0	20	161	3220
	14	10.0	412	VAR	VAR
	15	12.5	84	VAR	VAR

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	1466.9	636.7
	10.0	428.5	290.6
CA60	12.5	104.2	110.4
	5.0	420.6	71.3
PESO TOTAL (kg)			
CA50		1037.6	
CA60		71.3	

Volume de concreto (C-20) = 14.76 m³
Área de forma = 154.03 m²



Secretaria Municipal
Obras e Planejamento Urbano

Lorena
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PROJETO

PISTA DE SKATE CENTRO MUNICIPAL DE EVENTOS

ENDEREÇO
ESTRADA MUNICIPAL CHIQUITO DE AQUINO, Nº 135, MONDESIR, LORENA, SP - CEP: 12612-550

TÍTULO
ESTRUTURAL

CÓDIGO
ARQ 03/07

ASSUNTO

PILARES - RECURSOS PRÓPRIOS

ESCALA NOMINAL
INDICADA

DATA
MARÇO/2025

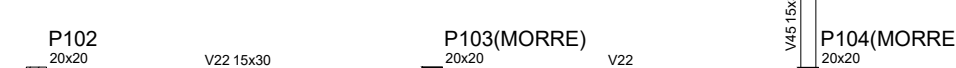
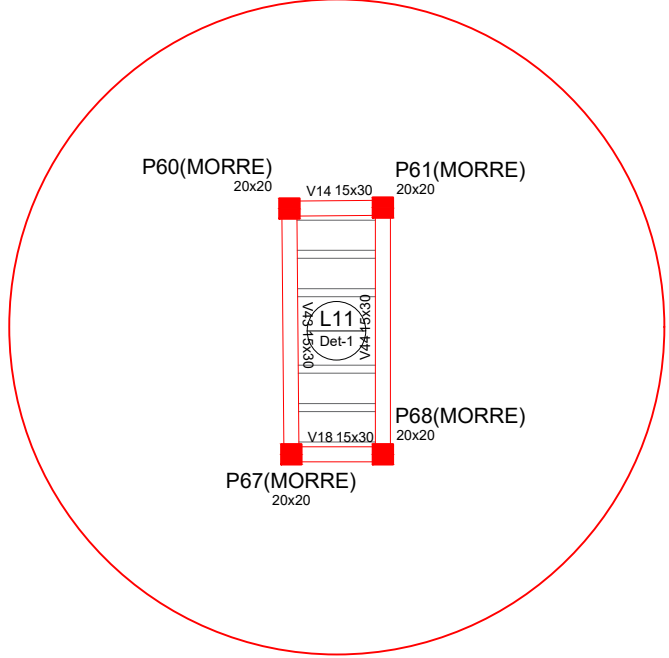
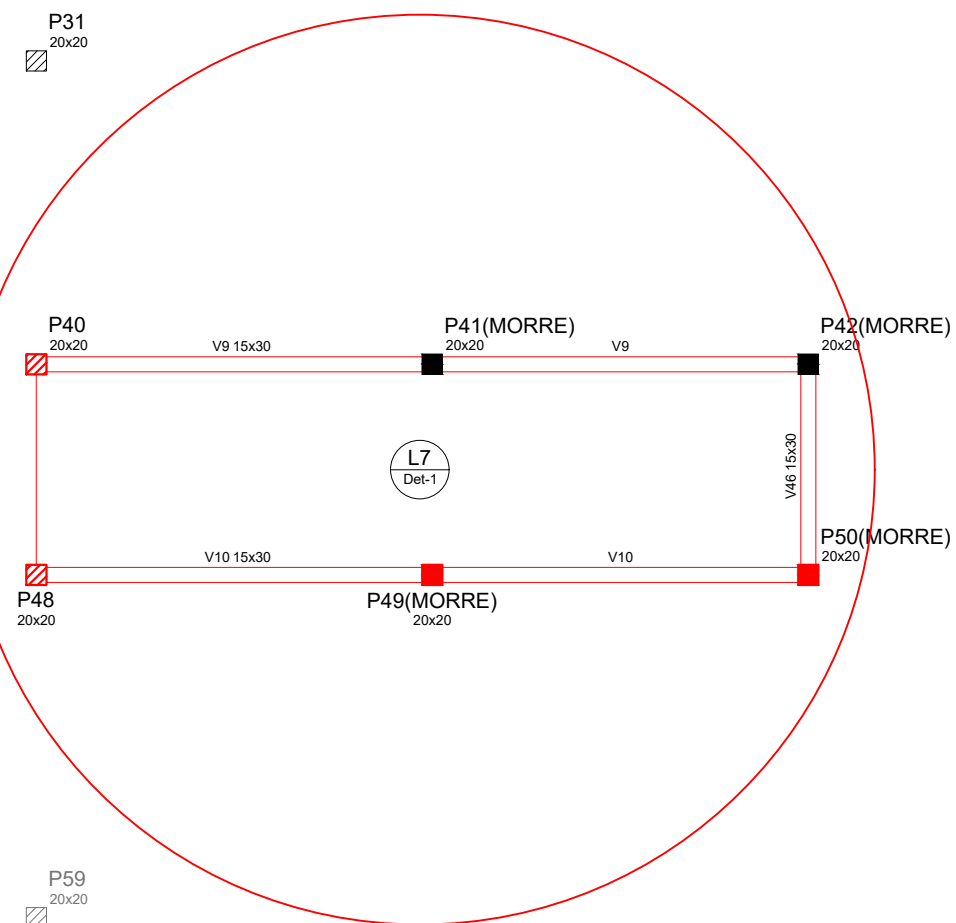
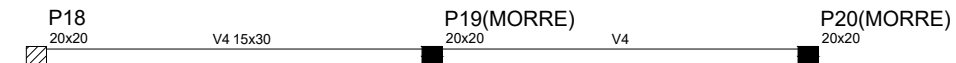
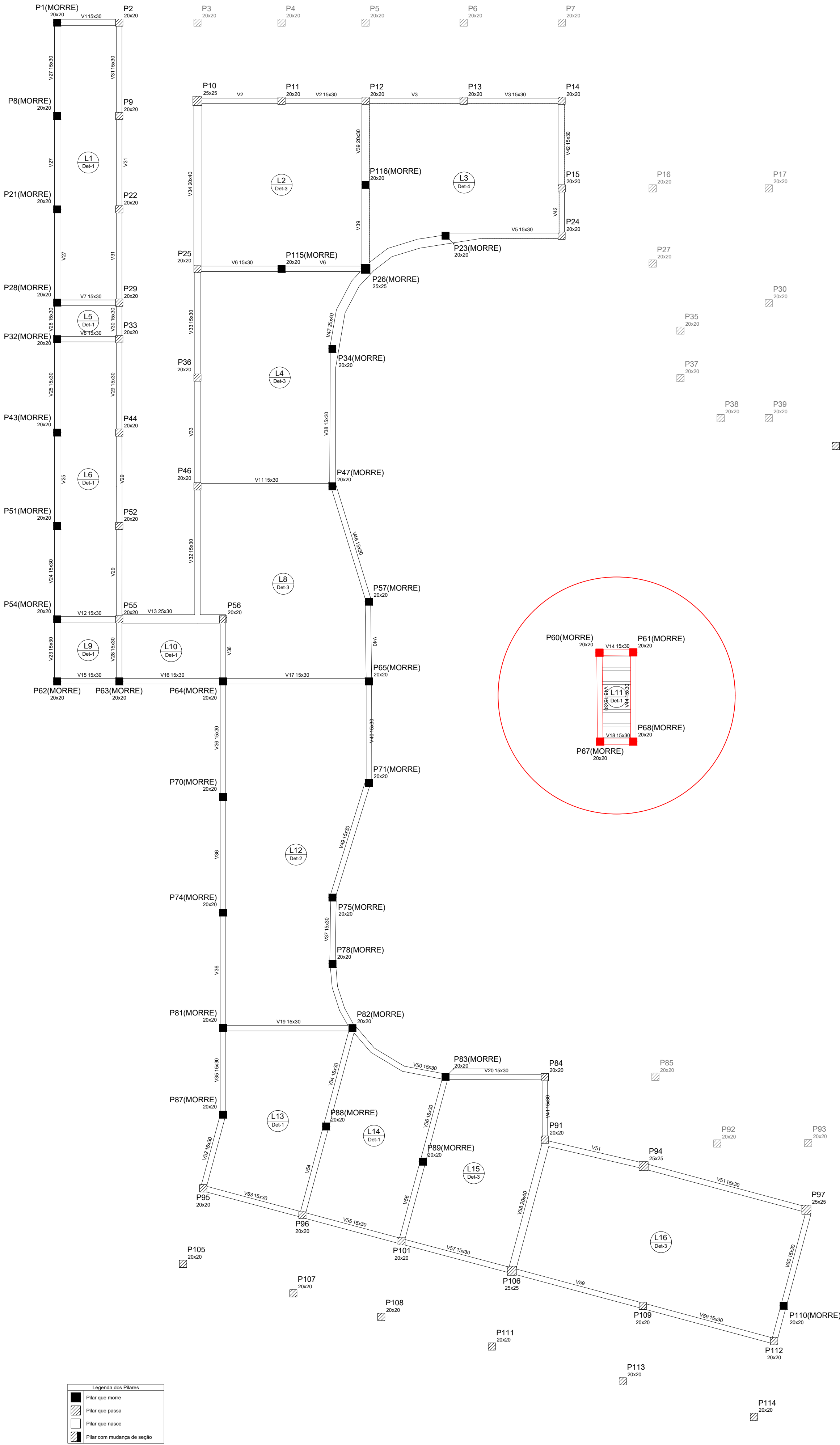
ASSINATURAS

SYLVIO BALLERINI
Prefeito Municipal de Lorena

ENGº ROSANA REIS ALVES CORRÊA
Secretária de Obras e Planejamento Urbano

FERNANDO CESAR LEMOS DA SILVA RAMOS
Engenheiro Civil CREA 5060459953
Responsável técnico ART: 2620240585299

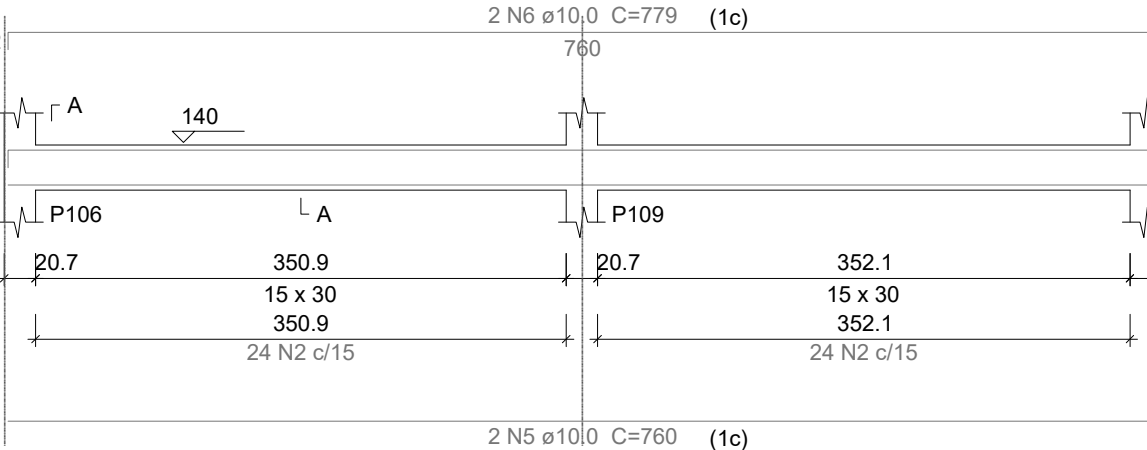
ESPAÇO PARA APROVAÇÃO



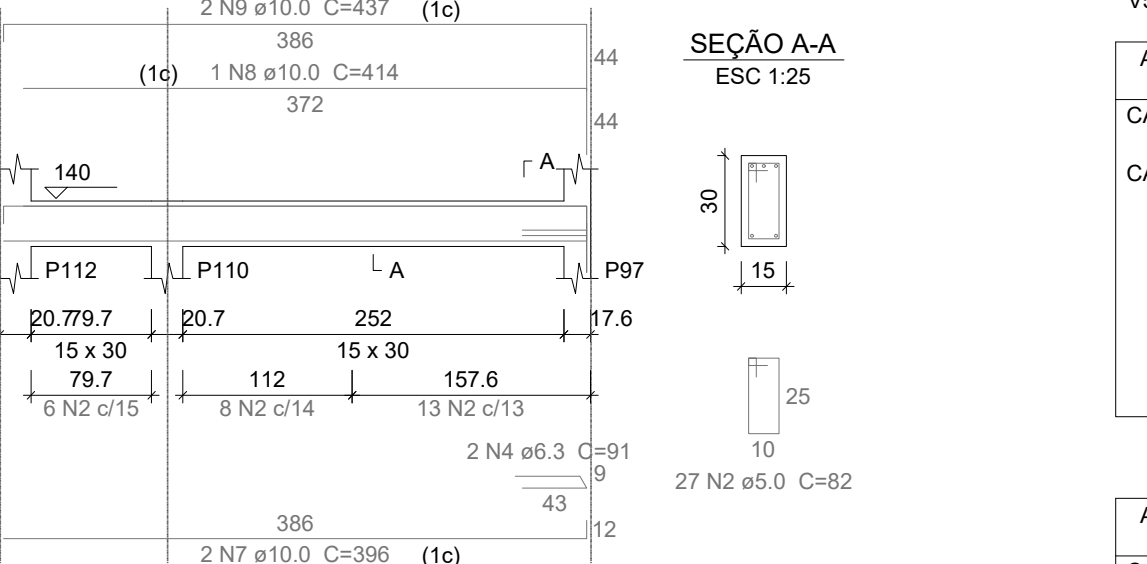
SERÁ EXECUTADO ATRAVÉS DE RECURSO PRÓPRIO

Forma do pavimento +1,40
escala 1:50

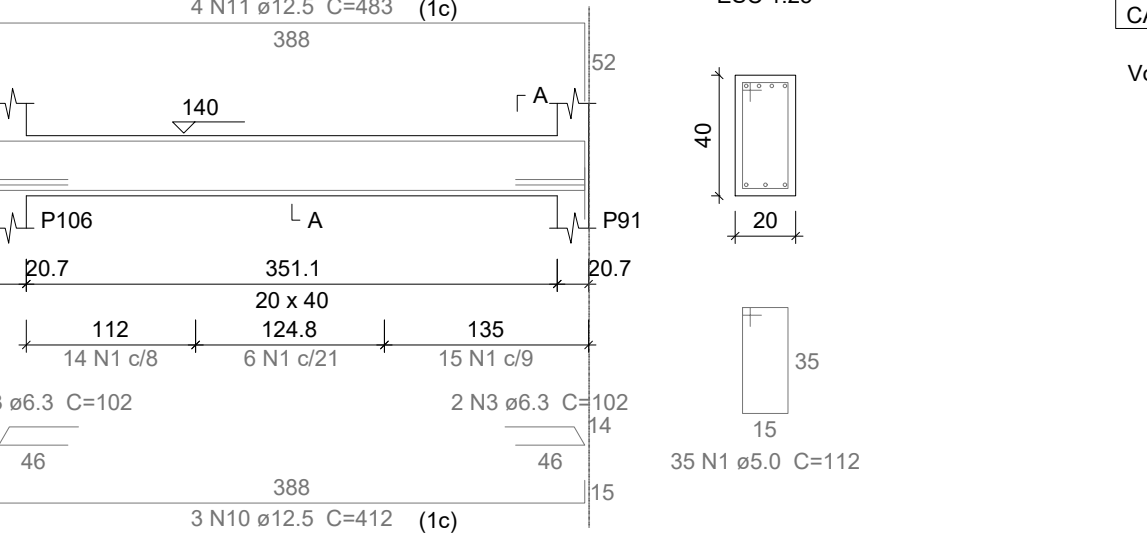
V59
ESC 1:50



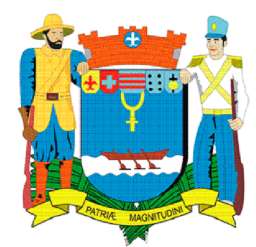
V60
ESC 1:50



V58
ESC 1:50



VIGA NIVEL 1,40



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Obras e Planejamento Urbano

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PROJETO

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TÍTULO
ESTRUTURAL

CÓDIGO
ARQ

FOLHA
04/07

ASSUNTO

**VIGAS - RECURSOS PRÓPRIOS -
A EXECUTAR E EXISTENTE**

ESCALA NOMINAL

INDICADA

DATA

MARÇO/2025

ASSINATURAS

SYLVIO BALLERINI

Prefeito Municipal de Lorena

ENGº ROSANA REIS ALVES CORRÊA

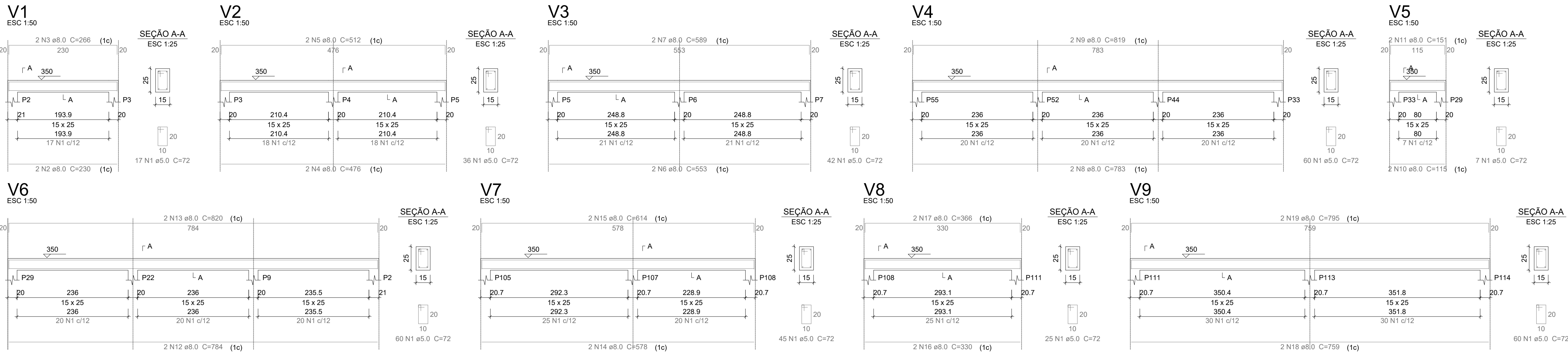
Secretária de Obras e Planejamento Urbano

FERNANDO CESAR LEMOS DA SILVA RAMOS

Engenheiro Civil CREA 5060459953

Responsável técnico ART: 2620240585299

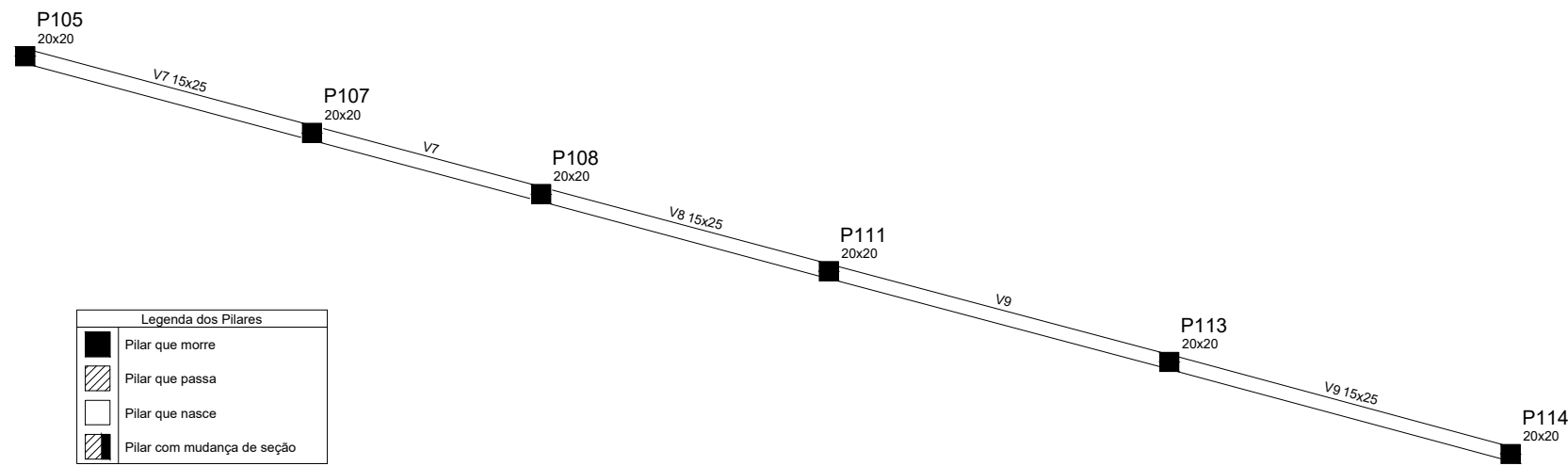
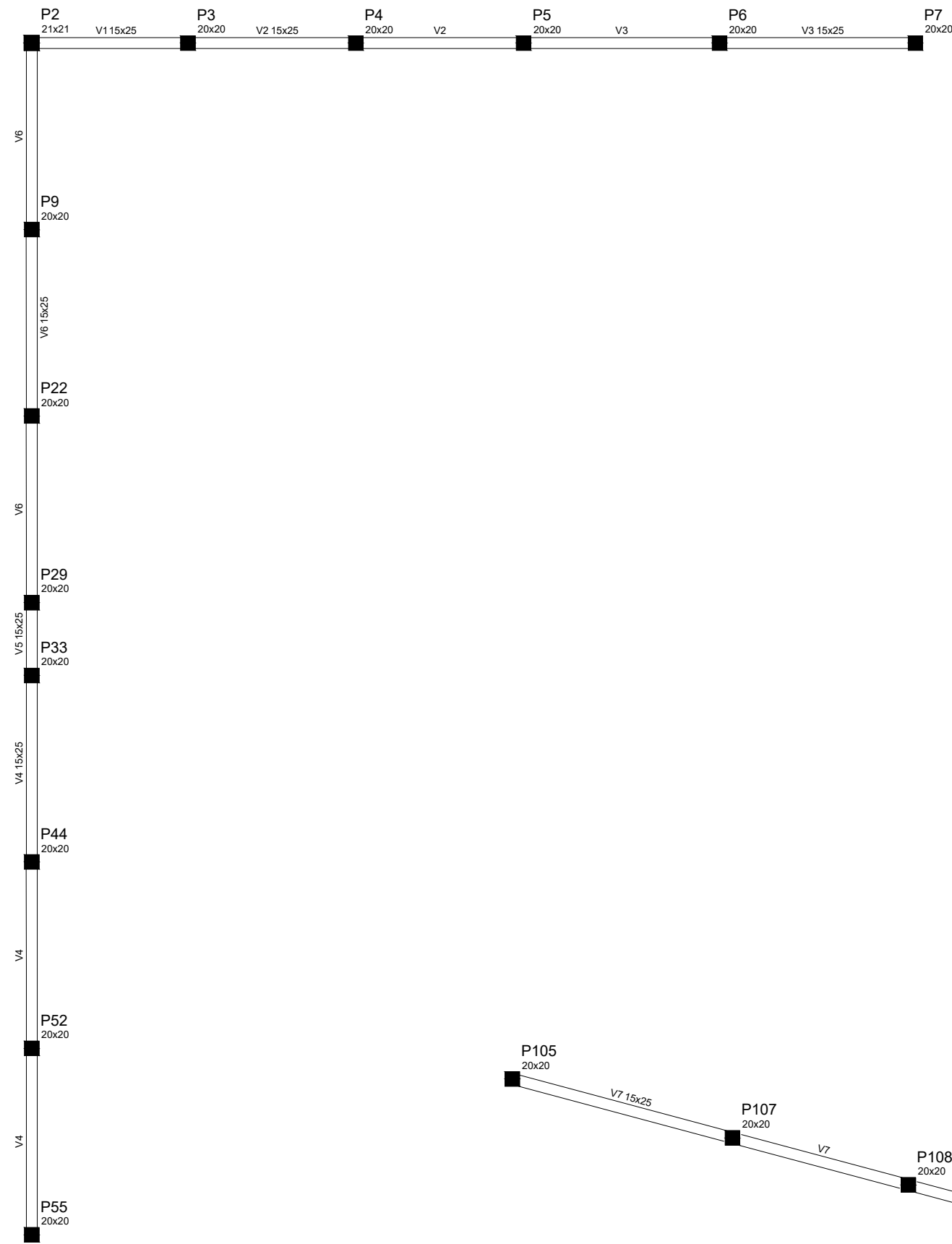
ESPAÇO PARA APROVAÇÃO



Relação do aço					
AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	352	72	25344
CA50	2	8.0	2	230	460
	3	8.0	2	266	532
	4	8.0	2	476	952
	5	8.0	2	512	1024
	6	8.0	2	553	1106
	7	8.0	2	589	1178
	8	8.0	2	783	1566
	9	8.0	2	819	1638
	10	8.0	2	115	230
	11	8.0	2	151	302
	12	8.0	2	784	1568
	13	8.0	2	820	1640
	14	8.0	2	578	1156
	15	8.0	2	614	1228
	16	8.0	2	330	660
	17	8.0	2	366	732
	18	8.0	2	759	1518
	19	8.0	2	795	1590

Resumo do aço			
AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	8.0	190.8	75.3
CA60	5.0	253.5	39
PESO TOTAL (kg)			
CA50	75.3		
CA60	39		

Volume de concreto (C-20) = 1.74 m³



Legenda dos Pilares	
■	Pilar que morre
▨	Pilar que passa
□	Pilar que nasce
▩	Pilar com mudança de seção

SERÁ EXECUTADO ATRAVÉS DE RECURSO PRÓPRIO

Forma do pavimento +160

escala 1:50



Avenida Capitão Messias Ribeiro, nº 211. Mercado Municipal, 1º andar. CEP. 12607-020. Vila Celeste, Lorena, SP. Tel. (12) 3185-3500

PROJETO
PISTA DE SKATE
CENTRO MUNICIPAL DE EVENTOS
ENDEREÇO
ESTRADA MUNICIPAL CHIQUITO DE AQUINO, Nº 135, MONDESIR, LORENA, SP - CEP: 12612-550

TÍTULO
ESTRUTURAL
CÓDIGO
FOLHA
ARQ 06/07

ASSUNTO
VIGAS - RECURSOS PRÓPRIOS - A EXECUTAR E EXISTENTE
ESCALA NOMINAL
INDICADA
DATA
MARÇO/2025

ASSINATURAS

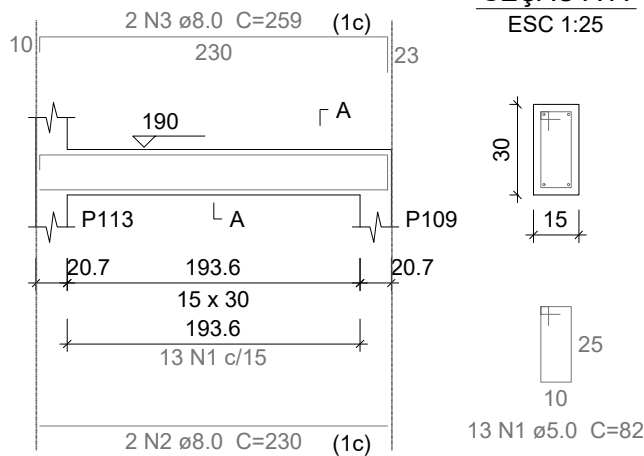
SYLVIO BALLERINI
Prefeito Municipal de Lorena
ENGº ROSANA REIS ALVES CORRÊA
Secretária de Obras e Planejamento Urbano

FERNANDO CESAR LEMOS DA SILVA RAMOS
Engenheiro Civil CREA 5060459953
Responsável técnico ART: 2620240585299

ESPAÇO PARA APROVAÇÃO

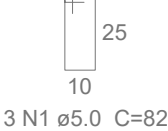
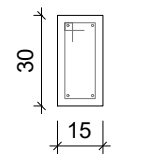
V22

ESC 1:50



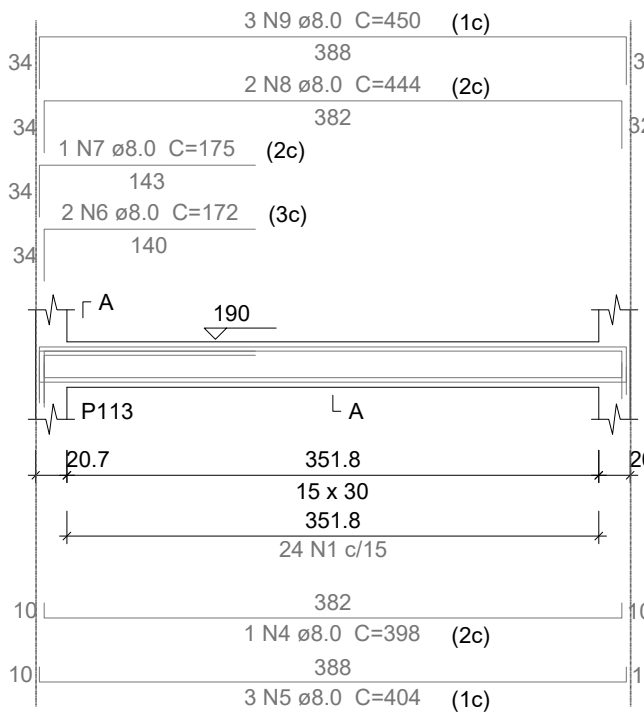
SEÇÃO A-A

ESC 1:25



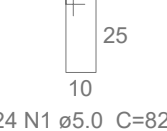
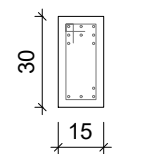
V23

ESC 1:50



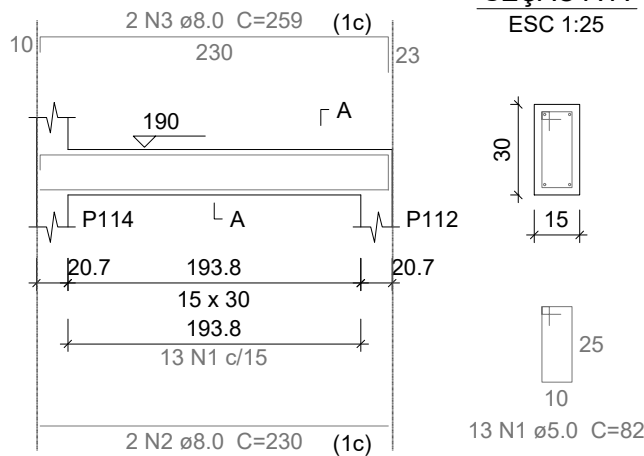
SEÇÃO A-A

ESC 1:25



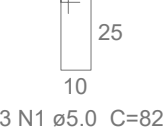
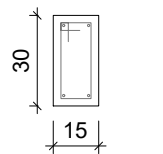
V24

ESC 1:50



SEÇÃO A-A

ESC 1:25



Relação do aço

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	50	82	4100
CA50	2	8.0	4	230	920
	3	8.0	4	259	1036
	4	8.0	1	398	398
	5	8.0	3	404	1212
	6	8.0	2	172	344
	7	8.0	1	175	175
	8	8.0	2	444	888
	9	8.0	3	450	1350

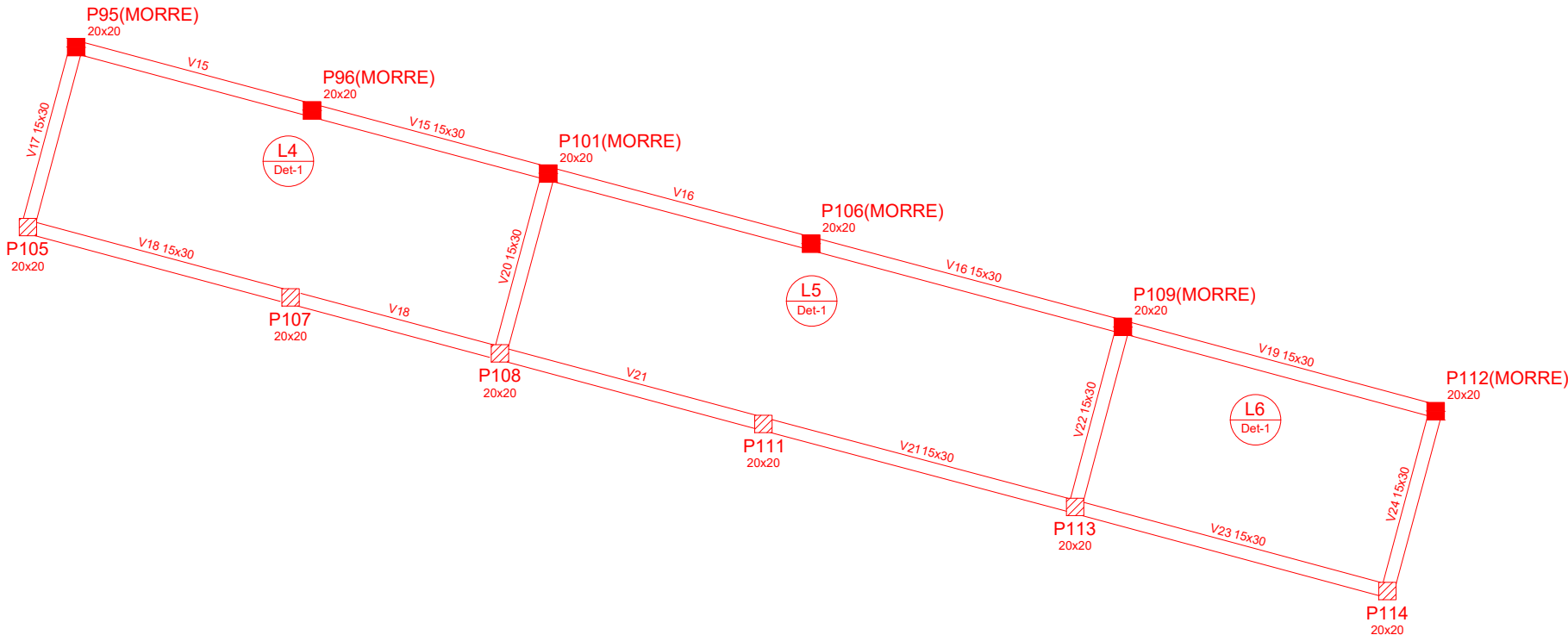
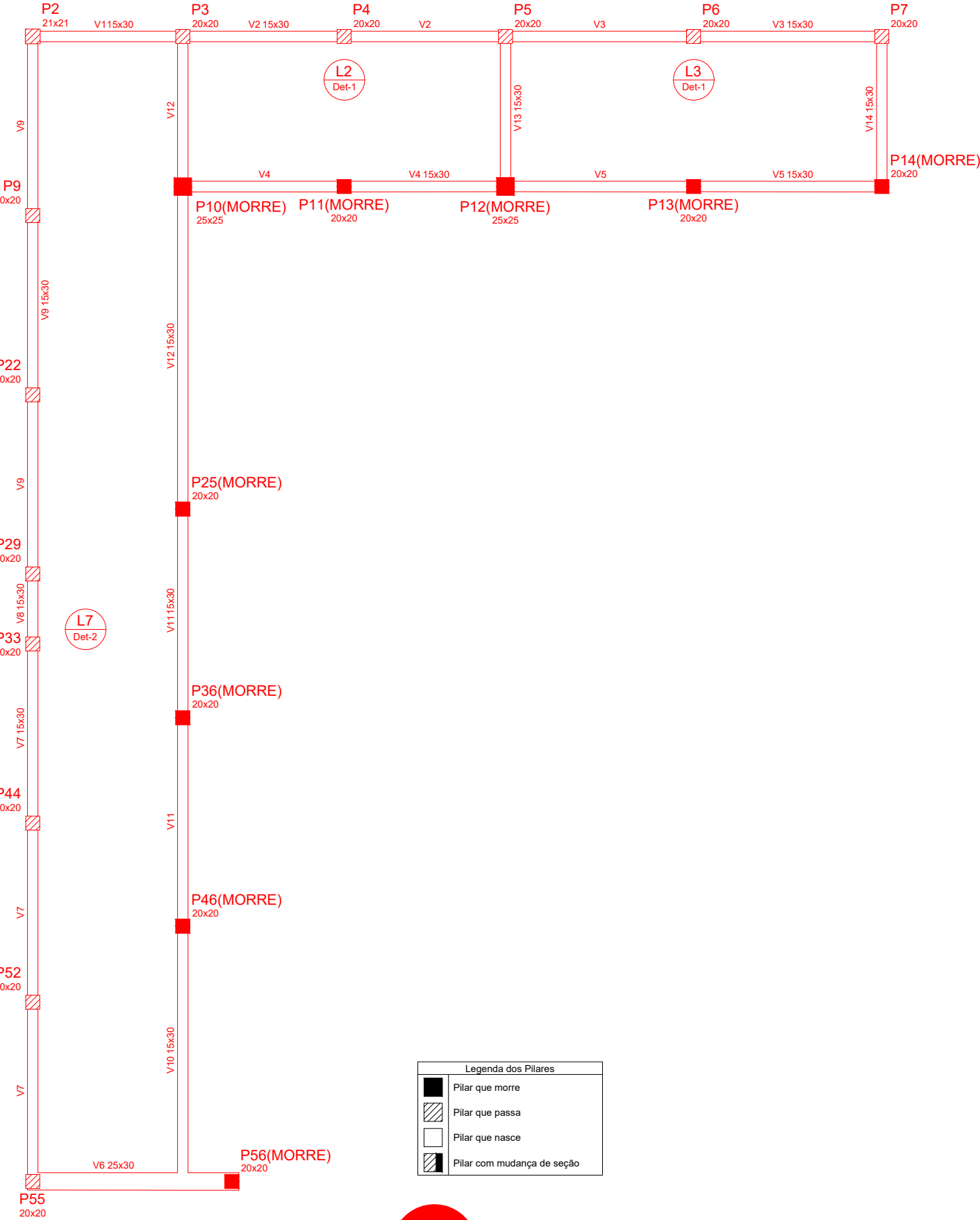
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	8.0	63.3	24,6
CA60	5.0	41	6,4
PESO TOTAL (kg)			
CA50	24,6		
CA60	6,4		

Volume de concreto (C-20) = 0.39 m³

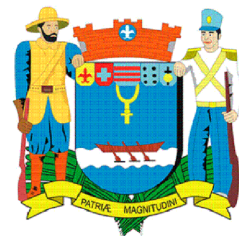
Legenda dos Pilares	
	Pilar que morre
	Pilar que passa
	Pilar que nasce
	Pilar com mudança de seção

SERÁ EXECUTADO ATRAVÉS DE RECURSO PRÓPRIO



Forma do pavimento +20 arribancada

escala 1:50



Secretaria Municipal
Obras e Planejamento Urbano

Lorena
PREFEITURA

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TÍTULO

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FOLHA

ASSUNTO

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ESCALA NOMINAL

INDICADA

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ASSINATURAS

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