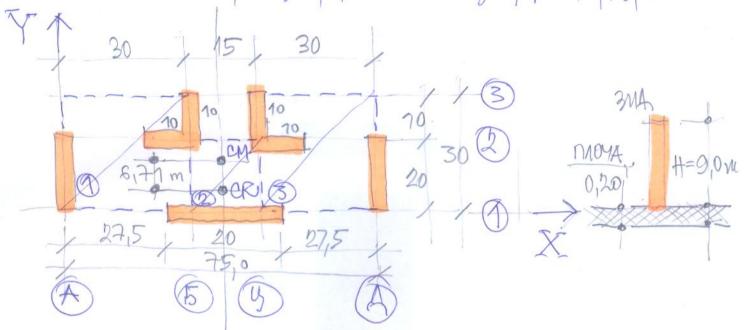
## MPWMEP 1:

3A WEMY MACUBAOT KOHOTPYKTNBAOT CHICTEMA 3TPAJE PPHKASAHOJ HA CKHUZU CPAYYHATIN WEHTAP MACA IN WEHTAP RPYTOCTN.



1º WENTAP MACA (CM):

110	A	XT	MT	A·XT	A. MT
1/15	(m2)	(m)	(m)	(m3)	(m3)
1	900	15	15	13500	13500
2	300	37,5	10	11250	3000
3	900	80	15	54000	13500
5	2100			78750	30000
					-

$$y_c = \frac{\sum_{i} A \cdot y_T}{\sum_{i} A} = \frac{30000}{2100} = 14,29 \text{ m}.$$

2° YOHTAP KPYTOCTN (CR):

 $K = \frac{1}{0.4 \cdot (\frac{1}{L})^3 + 0.3(\frac{1}{L})}$ 

L(m)	H(m)	K (MA)
10	0,0	1,78
20	9,0	5,23

	Handmeta:
-	BNA JE
	TPETMPAH KAO
4-	K0430/41
_	- HOULY

* - X - 1	ipabo	us		
3/14	L	Ky	Xr	Ky. Xr
- ONIA	(m)	$(M_3)$	(m)	(m4)
A	20	5,83	8	X
- 5	10	1,28	30	53,42
4	10	1,78	45	80,13
A	20	5,83	75	437.45
2		15,23		570.99
1	_			

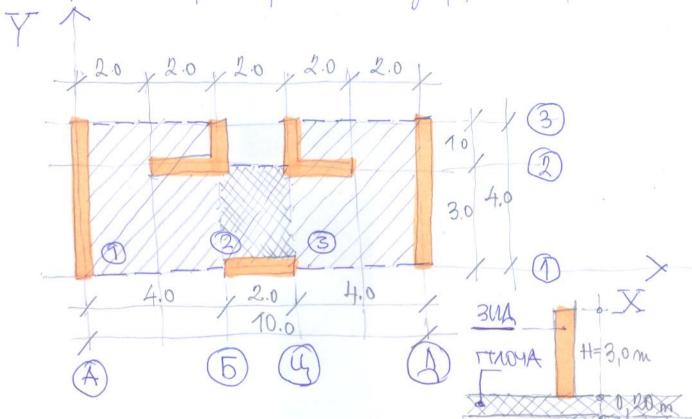
IKy.Xr	570,99	27 m
YCR = ZIKY	15,23	= 37,50 M

KY-W	abo	ys.	- H	DCAY.
34A	(m)	(m <sup>3</sup> )	yr (m)	Kx.gr
1 2 AB	20	5,83	Ø 20	35,61
24A	10	1,78	20	35,61
1		9,39	)	71,23

## (1)

## MPMMEP 2.

34 VIEMY MACUBITOT KOHCTPYKTNBHOT CUCTEMA 3TPAJE NPNKAZAHOJ HA CKMIKN CPAYYHATN GEHTAP MACA N GEHTAP KPYTOCTN.



1° YEHTAP MACA

npon Hanna (upoko ustpuna) > upeko fakuinta ustpunte

	1			
A	XT	YT	A·XT	A. MT
(m2)	(M)	(M)	(m3)	(m3)
16	2	2	32	32
6	5	1,5	30	9
16	8	3	128	48
38			190	89
	16 6 16	$(m^2)$ $(m)$ $16$ 2 6 5 16 8	16 2 2 6 5 1,5 16 8 3	$(m^2)$ $(m)$ $(m)$ $(m^3)$ 16 $2$ $2$ $326$ $5$ $1,5$ $3016$ $8$ $3$ $128$

TexHa (maca) ce imperiupa

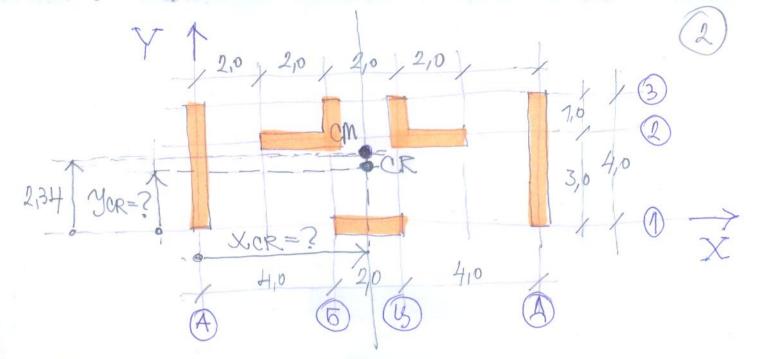
$$x_c = \frac{\sum A \cdot x_T}{\sum A} = \frac{190}{38} = 5.00 \text{ m}$$

$$y_c = \frac{\sum A \cdot y_T}{\sum A} = \frac{89}{38} = 2,34 \text{ m}$$

Spyrn Haruf (j-Ha 4.5. eusp. 166, N.M. MNMMYNT, Mexattinka 2.)

1011		B	d	A	di	Yà	Ji	V	9	m	M-Xi	M. Yi	m. Ii
N= C	m)	(m)	(m)	(m2)	(m)	(m)	(m)	(m3)	(kg/m3)	(t)	(t.m)	(t.m)	(+.m)
111	4	4	0,25	16	2	2	0.1	3,2		8	16	16	8,0
7	2	3	0,2	6	5	1,5	0.0	1,2	00	3	15	4.5	0,3
3	4	H	0,2	16	8	3	6.1	3,2	25	8	64	24	0,8
121		THE REAL PROPERTY.						17,6		19	95	14.5	1,9

$$x_c = \frac{\sum_{m} x_i}{m} = \frac{95}{19} = \frac{50}{19} = \frac{\sum_{m} y_i}{m} = \frac{141.5}{19} = \frac{234}{19} = \frac{1.9}{19} = 0.10 \text{ m}.$$



2° YEHTAP KPY TOCTU (CR)

Hawometta: YMECTO DA CE KOPUCTU DOBPLIUHA KAO PAKTOP TEXVIHE (MACE), KOPUCTU CE KPYTOCT, TAKO DA WEHTAP KPYTOCTU Y R-WOM DPABLY UMA BESY CA R-WIM PACTOJAKEM. 3140BA.

\* KPYTOCT 3MJOBA (TWNA KOHBONE):

$$K = \frac{1}{0.4(\frac{\#}{L})^3 + 0.3(\frac{\#}{L})}$$

7	+	K
(M)	(m)	(m3)
2,0	3,0	0,56
110	3,0	2,54

\* 3A X MARAY

3111	L	Ky	Xr	Ky. Vr
	(M)	(m3)	(m)	(m4)
A	Ho	2,54	Ø	D D
6	2,0	0,56	14	2,22
us	2,0	0,56	6	3/95
A	110	2,54	10	25,70
2		6,19		30,95

*	3A	Y	MPABAU	1
1.			-	4

1 9		1	A company of the comp
L	Kx	Tr	Kx. yr
(M)	(m3)	(M)	(m4)
2,0	0.56	Ø	Ø
2,0	0.56	3	1,67
2,0	0,56	3	1,67
	1,67	4	3,33
	2,0	2,0 0,56	$(m)$ $(m^3)$ $(m)$ $2,0$ $0,56$ $0,56$ $3$

$$x_{CR} = \frac{\sum K_y \cdot x_r}{\sum K_y} = \frac{30.95}{6.19} = 5.00 \text{ m}$$
  $y_{CR} = \frac{\sum K_x \cdot y_r}{\sum K_x} = \frac{3.33}{1.67} = 2.00 \text{ m}$ 

$$y_{QR} = \frac{\sum K_{x} \cdot y_{r}}{\sum K_{x}} = \frac{3.33}{1.67} = 2.00 \text{ m}$$

V. Myry (2022.)