O'ZBEKISTON RESPUBLIKASI
ANDIJON VILOYATI ANDIJON SHAHRI
"ANDIJON UNIVERSAL PROYEKT"
MCHJ

oshxona, kutubxona va faollar zali binosi qurilishi uchun

Ishchi loyiha

1-Albom

Loyiha tarkibi:
Qurilish yechimi

"Andijon universal proyekt" MChJ

Loyiha bosh muhandisi: To'raboyev Sh.

Andijon - 2026 yil

LBM	To'raboyev				"Andijon Universal Proyekt" MChJ
					Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish

Ishchi chizmalarning asosiy to'plamlari ro'yxati

Belgilash	Nomi	Eslatma
MQ	Qurilish qismi chizmalari	1-Albom

MQ asosiy to'plamining ishchi rasmlari ro'yxati (boshlandi)

Varaq	Nomi	Eslatma
1	Umumiy ma'lumot (boshlandi)	
2	Umumiy ma'lumot (tugadi)	
3	Kotlovan rejasi.	
4	Qirqim 1-1. Asosni tayyorlash bo'yicha ko'rsatmalar	
5	Poydevor rejasi. Qirqim 1-1, 2-2.	
6	Qp1, Qp2, Qp3. A-A, B-B, D-D kesimlar. Qbt1. Pardadevor osti poydevori.	
7	Poydevor rejasi xarajatlar jadvali (boshlandi, tugadi)	
8	Poydevorning izolyatsiyasi tuguni. Poydevor elementlarini tanlash.	
9	Karkaslar Fk1,2,3,4,5,6. Setkalar S1,2. A-A, B-B kesimlar	
10	1-qavat devorni mustaxkamlash elementlarini joylashtirish rejasi. Xarajatlar jadvali.	
11	2-qavat devorni mustaxkamlash elementlarini joylashtirish rejasi.	
	Devorni mustahkamlash elementlarini tanlash	
12	Rama Rm1. 1,2-tugunlar. A-A, B-B, 1-1, 2-2, 3-3, 4-4 kesimlar	
13	Rama Rm1 xarajatlari jadvali.	
14	Fazoviy karkaslar Fk1,2,3,4,5.	
15	Rama Rm2. 1,2-tugunlar. A-A, B-B, 1-1, 2-2, 3-3, 4-4 kesimlar	
16	Rama Rm2 xarajatlari jadvali.	
17	Fazoviy karkaslar Fk1,2,3,4,5.	
18	Rama Rm3. 1,2-tugunlar. A-A, B-B, 1-1, 2-2, 3-3, 4-4 kesimlar	
19	Rama Rm3 xarajatlari jadvali. Fazoviy karkaslar Fk1,2,3. 1,2,3,4,5-tugunlar.	
20	Tuynukni kuchaytirish Tk2,3,5. 1-1, 2-2, 3-3 kesimlar	
21	Tuynukni kuchaytirish Tk1,4. 1-1, 2-2, 3-3 kesimlar	

AQ asosiy to'plamining ishchi rasmlari ro'yxati (davomi)

Varaq	Nomi	Eslatma
22	Devor, pardadevor va tuynuklarni kuchaytirish elementlarining xarajatlari jadvali (boshlandi, davomi)	
23	Devor, pardadevor va tuynuklarni kuchaytirish elementlarining xarajatlari jadvali (davomi)	
24	Devor, pardadevor va tuynuklarni kuchaytirish elementlarining xarajatlari jadvali (davomi, tugadi)	
25	A o'qda 1-5 o'qlari bo'ylab devor yoyilmasi	
26	1-o'qda D-A o'qlari, 5-o'qda A-D o'qlari bo'ylab devor yoyilmalari	
27	E o'qda 5-1 o'qlari bo'ylab devor yoyilmasi	
28	3,220 metr satxda orayopma rejasi. Xarajatlar jadvali.	
29	1,2-qavat zina rejalari. Zina xarajatlari jadvali (boshlandi)	
30	1-1 qirqim. Zina xarajatlari jadvali (tugadi)	
31	Metall fermalarni joylashtirish rejasi	
32	Tom elementlari xarajatlar jadvali. Gorizontal va vertikal bog'lash	
32a	Suv yig'ish kanali elementlari va xarajatlari jadvali	
33	Metall fermalar F1,2,3,4,5,6,7. A tugun.	
34	1,2,3,4,5,6,7 tugunlar.	
35	Metall ferma elementlarining xarajatlar jadvali	
36	Quyma beton zina va pandus. Xarajatlari jadvali	
37	Metall soyabon Ms1. 1-1 qirqim va xarajatlari jadvali	
38	Quyosh paneli o'rnatish va maxkamlash elementlari	
39	Quyosh kolletori o'rnatish va maxkamlash elementlari	

Texnik-iqtisodiy ko'rsatkichlar:
Qurilish maydoni -302,56 m²
Qurilish hajmi - 3 201,09 m³
Umumiy maydoni - 546,53 m²

Ishchi loyiha amaldagi qonun va qoidalarga muvofiq ishlab chiqilgan. Loyihada binolarni ishlatish paytida portlovchi, portlash va yong'in xavfsizligini ta'minlash choralarini nazarda tutadi.

Loyihaning bosh muhandisi: To'raboyev Sh.

o'zg.	soni	varaq	xuj.№	imzo	sana				
						Shifr:			MQ-
						Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish			
LBM		To'raboyev				**oshxona, kutubxona va faollar zali**	bosqich	varaq	varaqlar
							IL	1	
bajardi		Isomiddinov A.				**Umumiy ma'lumot (boshlandi)**	**"Andijon Universal Proyekt" MChJ**		

Инв.№подл. | Подпись, дата | Взам.инв.№

UMUMIY QISM

Andijon viloyati Andijon shaxri Kengash MFY Ahmad xoji ko'chasi 78-v uyda joylashgan Andijon davlat Pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish ishlari bo'yicha loyiha-smeta xujjatlari to'plami **"Andijon Universal Proyekt" MChJ** tashkiloti tomonidan ishlab chiqilgan. Buyurtmachi Andijon viloyati xokimligi huzuridagi **"Yagona buyurtmachi xizmati"** Injiniring kompaniyasi tomonidan 2026 yil da yuborilgan loyiha-smeta xujjatlarini tayyorlash uchun buyurtma xati, Andijon viloyati Arxitektura va Qurilish Bosh Boshqarmasi tomonidan 07.07.2026 yil sanasida berilgan ART 1703-1703401-275856-son, loyiha ishlarini bajarish uchun topshiriqqa asosan tayyorlandi.

Ishchi loyihani ishlab chiqish amaldagi me'yoriy talablariga muvofiq amalga oshirildi.

QURILISH YECHIMI

Binoning yuk ko'taruvchi konstruksiyalari va tugunlari QMQ 2.01.03-19 «Zilzilaviy hududlarda qurilish» ga asosan qurilish me'yorlari va qoidalarining 3-jadval bo'yicha 1.2.2. bandiga asosan b bandi bo'yicha ishlab chiqildi.

Bino bikr (ramniy) konstruktiv yechimda bo'ylama va ko'ndalang devorlari gazoblokdan terilgan.

Bino quyidagi konstruktiv elementlardan qurilgan:

Poydevorlar - alohida turuvchi va tasmasimon bo'lib V15 sinfli betondan quyilgan. Taglik armatura karkaslari bilan kuchaytirilgan.

Tashqi devorlar - gazoblokdan 300mm qalinlikda M50 markali g'ishtga yopishqoqligini oshiruvchi qo'shimchalar bilan boyitilgan qorishmada bo'ylamasiga 600mm qadamda armatura setkasi bilan kuchaytirilgan holda urilgan.

Ichki devorlar - gazoblokdan 200mm qalinlikda M50 markali g'ishtga yopishqoqligini oshiruvchi qo'shimchalar bilan boyitilgan qorishmada bo'ylamasiga 600mm qadamda armatura setkasi bilan kuchaytirilgan holda urilgan.

Tashqi pardozlash - binoning barcha tashqi ko'rinishida qalinligi 50mm bo'lgan BASALT mineral qoplamasi bilan himoyalansin. Mineral plitani mahkamlash uchun yopishtiruvchi eritma, maxkamlovchi setka, yopishtiruvchi eritmali suvoq ustidan travertin kukunidan suvoq ishlari bajarilsin.

Ichki pardozlash - Barcha loyihalangan devorlar va pardadevorlarda gipsli qorishma bilan suvoq ishlari amalga oshiriladi, so'ngra suvli emulsiyada 2marta bo'yaladi va ichki pardozlash ishlari ro'yxatiga muvofiq xonalarning maqsadi ko'ra keramik sirlangan plitkalar bilan 1,60metr balanlikgacha qoplanadi.

Ramalar - B25 sinfli monolitik betondan tayyorlangan, armatura karkaslari bilan mustahkamlangan.

Rigellar - B25 sinfli monolitik betondan tayyorlangan, armatura karkaslari bilan mustahkamlangan.

Sarbastalar - 1.038.1.- 1-sonli seriya bo'yicha prefabrik temir-beton.

Orayopma va tomyopmalar - UTR46.1-95 1-soniga muvofiq yig'ma ko'pbo'shliqli temir-beton plitalardan.

Pollar - mramor, keramogranit plitkalardan, relindan, keramik plitkalardan, 2.244-1 seriyali 4-son bo'yicha.

Shift - gipsli suvoq qiling va 2 marta suvli emulsiyada bo'yang.

Ichki zinalar - monoli betondan bajarilsin, zanglamas yaltiroq temir tutqichlar o'rnatilsin.

Deraza bloklari - RSTUz699-96 bo'yicha bir kamerali plastik materialdan tayyorlangan (2qavat oynali).

Tashqi deraza tokchalari - b=0,51 mm polimer qoplamali profnastildan o'rnatilsin.

Tashqi eshik bloklari - RSTUz 699-96 bo'yicha bir kamerali alyumin profildan tayyorlangan (2qavat oynali). Barcha eshik bloklari ostonasiz o'rnatiladi.

Ichki eshik bloklari - RSTUz 699-96 bo'yicha bir kamerali alyumin profildan (2qavat oynali) va MDF panelli materialdan RSTUz 699-96 bo'yicha tayyorlangan. Barcha eshik bloklari ostonasiz o'rnatiladi.

Vitraj - RSTUz 699-96 bo'yicha bir kamerali alyumin profildan tayyorlangan (2qavat oynali). Barcha eshik bloklari ostonasiz o'rnatiladi.

Izolyatsiya - 100mm qalinlikdagi mineral paxtadan.

Tom - temir konstruktsiyalarda b=0,51 mm polimer qoplamali profnastildan.

Binonig tashqi qismida yong'inga qarshi temir narvon o'rnatilsin.

Sokol - kabanchik metall karkaslar bilan o'rnatilsin.

Devor osti to'shama - binoning perimetri bo'ylab kengligi 1000mm, asosi 50mm zichlashtiriilgan shag'al, qalinligi 100mm beton to'shama bajarilsin.

Yong'inga qarshi chora-tadbirlar

Loyiha SHNK 2.08.02-09 va SHNK 2.01.02-04 amaldagi qurilish normalari va qoidalariga muvofiq ishlab chiqilgan.

II darajali yong'inga chidamlilik binosi avtomatik yong'in signalizatsiyasi bilan jihozlangan.

Loyiha shamollatish tizimlarini boshqaruv panelidan markazlashtirilgan tarzda o'chirishni, shuningdek, ushbu tizimlarni yong'in haqida avtomatik xabar berish tizimidan bloklashni qabul qildi.

Kabellar va quvurlarni o'rab turgan tuzilmalar orqali yotqizishda yonmaydigan materiallardan yasalgan yenglar ta'minlanadi. Yeng va quvur orasidagi bo'shliqni kamida 15mm yonmaydigan material bilan to'ldiring.

Bino birlamchi yong'in o'chirish uskunalari bilan jihozlangan: OP-10A kukunli o't o'chirish moslamalari, bochkalar, chelaklar, ilgaklar, boltalar.

Qurilishda binolarning energiya samaradorlik chora-tadbirlari

Issiqlik izolyatsiyasi

- devor, tom va pollarni zamonaviy issiqlik izolyatsiya materiallari bilan qoplash.
- Oynalarni ikki qavatli (energiya tejaydigan) qilib bajarish.
- Eshik va derazalarni havo o'tish joylarini maxkamlash va pena bilan to'ldirish.

Yoritish tizimini takomillashtirish

-Yoritish lampalarini energiya tejamkor lampalarga almashtirish

- Tabiiy yorug'likdan ko'proq foydalanish uchun QMQ 2.01.05-2019 talablari bo'yicha oynalarni to'g'ri joylashtirish

Ichki energiya manbaalari va qayta tiklanuvchi energiya

- Quyosh panellari yordamida binoda elektr energiyasi ishlab chiqish va undan foydalanish.
- Quyosh suv isitish tizimlaridan foydalanish

Energiyani tejash maqsadida tuzilmalarni tashqi tomondan o'rab olish

Devorda izolyatsiya - G=120kg/m^3, qalinligi 50mm bo'lgan Bazalt tolali plitalar, mahkamlash uchun yelimli qorishma va ankerlar yordamida qo'riladi, mustahkamlovchi setka qoplanadi.

Tomda issiqlik himoya qatlami - G=160kg/m^3, qalinligi 50mm bo'lgan Bazalt tolali plitalar 2 qavat qoplanadi, ustidan armosetkalar bilan kuchaytirilgan sement-qum qorishmasi qoplash.

						Shifr:			MQ-
o'zg.	soni	varaq	xuj.№	imzo	sana	Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish			
LBM		To'raboyev				oshxona, kutubxona va faollar zali	bosqich	varaq	varaqlar
							IL	2	
bajardi		Isomiddinov A.				Umumiy ma'lumot (tugadi)	"Andijon Universal Proyekt" MChJ		

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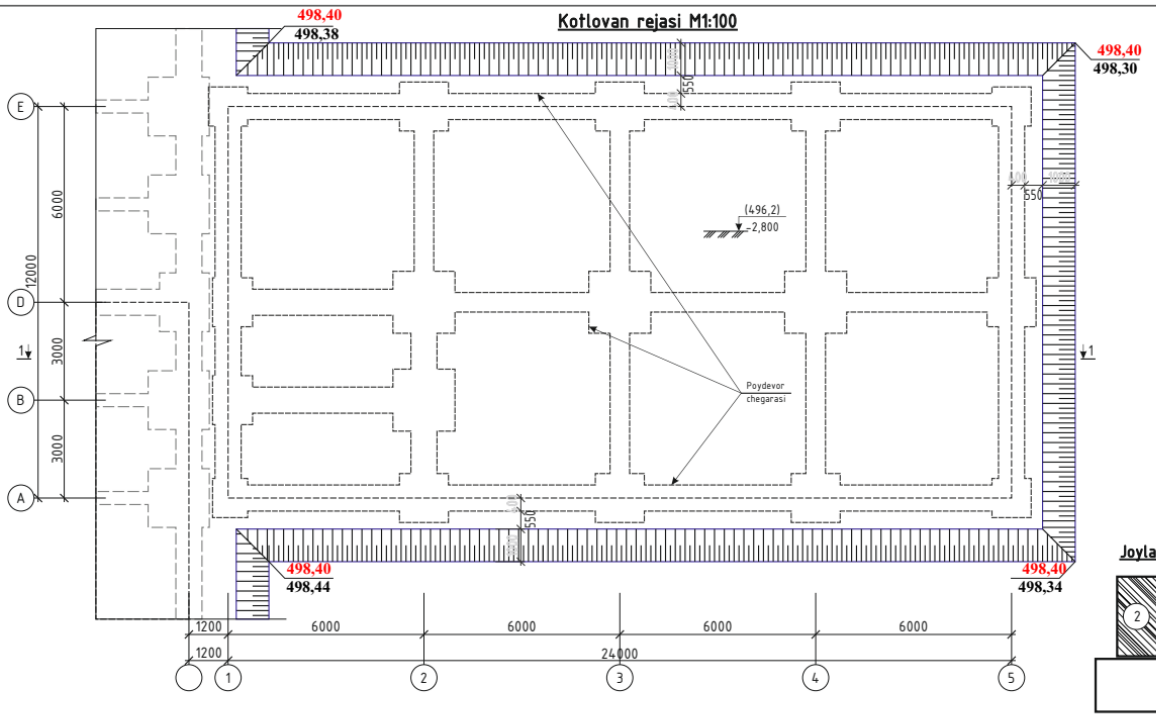
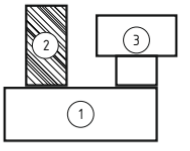


Joylashuv zanjiri



Diqqat:
Qazishni boshlashdan oldin, qazish ishlari va qurilish uchun ruxsat olishga qurilish bilan tanishish uchun manfaatdor tashkilotning barcha mutaxassislarini chaqiring.

						Shifr:			MQ-
o'zg.	soni	varaq	xuj.№	imzo	sana	Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish			
LBM		To'raboyev				oshxona, kutubxona va faollar zali	bosqich	varaq	varaqlar
							IL	3	
bajardi		Isomiddinov A.				Kotlovan rejasi	"Andijon Universal Proyekt" MChJ		

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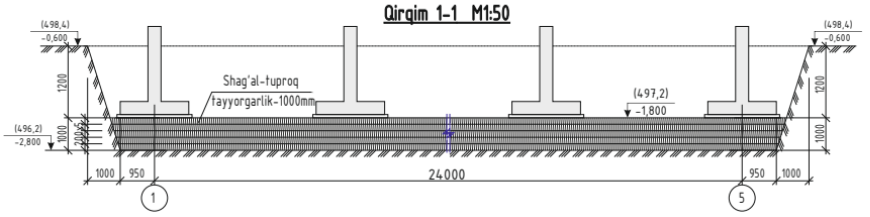
Qirqim 1-1 M1:50



Asosni tayyorlash bo'yicha ko'rsatmalar

1. Chuqurni ishlab chiqish va poydevor uchun asos tayyorlash bo'yicha barcha ishlar KMK 2.02.01-98, KMK2.02.01-97 va ushbu ko'rsatmalar talablariga muvofiq amalga oshiriladi.
2. Poydevor tayyorlash bo'yicha barcha ishlar buyurtmachi, loyihalash tashkilotining vakili va geolog-muhandis ishtirokida tegishli aktlarning bajarilishi bilan qattiq nazorat ostida o'tkazilishi kerak.
3. Qazish ishlari faqat mavjud muhandislik tarmoqlarini chuqur hududidan ko'chirilgandan keyin amalga oshirilishi kerak.
4. 0.000 (499,0) mutlaq belgidan chuqurni -2,800 (496,2) belgisigacha oching. Tuproqning miqdori xandaq tubidan loyihaviy belgigacha 100sm (5qavat-20smdan).
5. Poydevor chuqurini qazishdan so'ng, poydevor tuprog'ini o'rganish uchun geolog muhandisni chaqiring.
6. Chuqurning pastki qismini rejalashtiring va sirt muhrini yarating. Tuproqlarning cho'kish xususiyatlarini yo'qotish uchun (1-toifa), taglikning siqilishi.
7. Shag'al-tuproqli asosni 5qavatda 200mm li qilib har qavatninig zichligi 1,70t/m3 xajmga kelgunicha og'ir roliklar bilan qatlamli siqish yo'li bilan zichlashtirilsin. Bitta yo'l bo'ylab o'tishlar soni 6-10 martadan kam bo'lmasligi kerak.
8. Asosni zichlashtirish ishlari mutasaddi tashkilotlar nazorati otida bajarilishi shart.
9. Poydevorlar tagida cho'kishga qarshi chora-tadbirlar KMK 2.0201-98. (Bino va inshootlarning asoslari) ning 3-bo'lim talablari bilan amalga oshirilishi kerak.
10. Yer ishlarini bajarayotganda, chuqur va to'ldirilgan tuproq bo'lsa, qatlamni kesib oling va uni shag'al va tuproqni to'ldirish bilan almashtiring.

QO'LLANISH MAYDONI

Bino IVg iqlim mintaqasida qurish uchun mo'ljallangan, hududning seysmiklik darajasi - **9ball**.

1-turdagi tuproqlar:

Seysmik xossalari bo'yicha tuproqlar toifasi-**ikkinchi**.

Cho'kuvchanlik bo'yicha tuproqlar toifasi-**ikkinchi.**

Taxminiy qishki tashqi havo harorati -14 C.

Qor hududi -I KMK2.01.07-96 bo'yicha.

Qor qoplamining og'irligi - 50kg/m2.

Yuqori tezlikdagi shamol bosimi 38kg/m2 ni tashkil qiladi.

Binoning yong'inga chidamliligi - F4/1 sinfiga mansub

"O'zGASHKLITI" MChJ tomonidan 2026 yilda olib borilgan qurilish maydonchasining muhandislik-geologik sharoitlari bo'yicha xulosaga ko'ra, qurilish maydonchasidagi tuproqlar quyidagicha:

Tabiiy tuproqlarning fizik-mexanik xususiyatlari:

a=0,85 bilan: y=1,46t/m3; u=23°0'; s=6,0kPa;

Tuproqlar portlend tsementidagi normal zichlikdagi betonlarga juda agressiv emas.

Tadqiqot davrida yer yuzasidan 7m gacha chuqurlikda yer osti suvlari topilmagan.

Qazish-881,78m³
Buldozer bilan 20 metrga surish-881,78m³
Qo'lda qayta ishlash-44,09m³
To'ldirish-804,13m³
Shundan qo'lda to'ldirish-40,21m³
Zichlash-804,13m³
Shundan:
ГПС to'ldirish-372,04m³
ГПС olip kelish -632,47t
Zichlash katkalar bilan-372,04m³

o'zg.	soni	varaq	xuj.№	imzo	sana	Shifr: MQ-		
						Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish		
							bosqich	varaq	varaqlar
LBM		To'raboyev				oshxona, kutubxona va faollar zali	IL	4	
bajardi		Isomiddinov A.				1-1 qirqim. Asosni tayyorlash bo'yicha ko'rsatmalar	"Andijon Universal Proyekt" MChJ		

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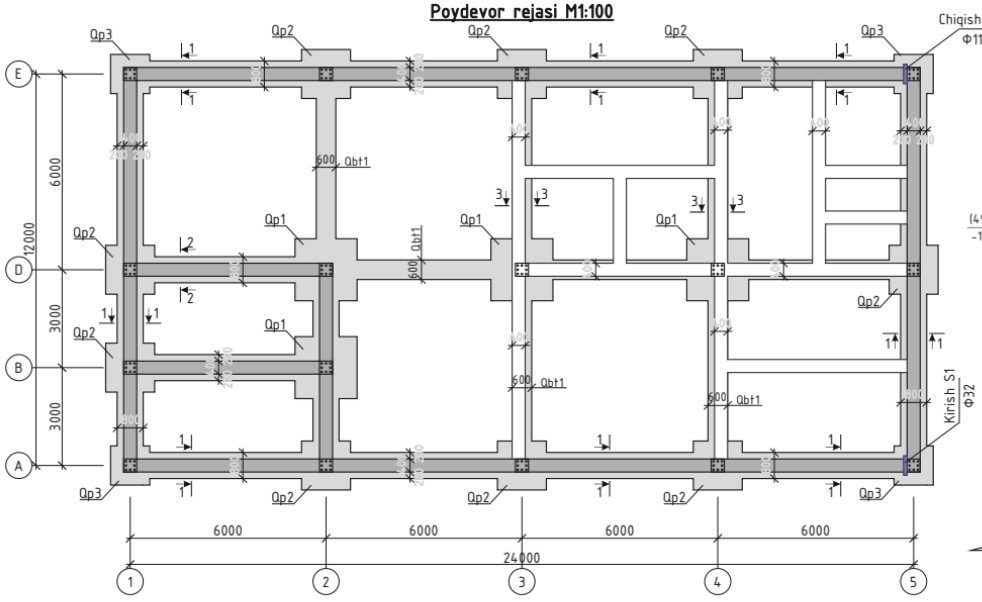
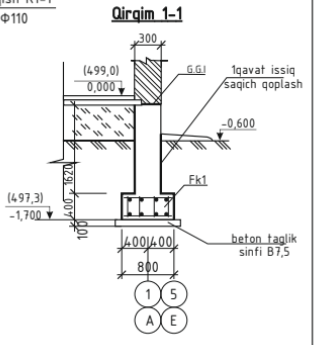
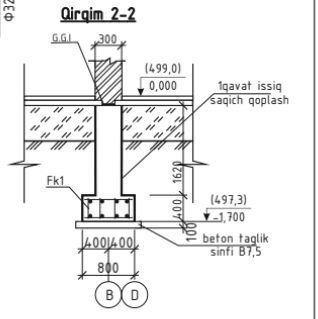
Poydevor rejasi M1:100



Qirqim 1-1

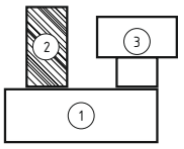


Qirqim 2-2



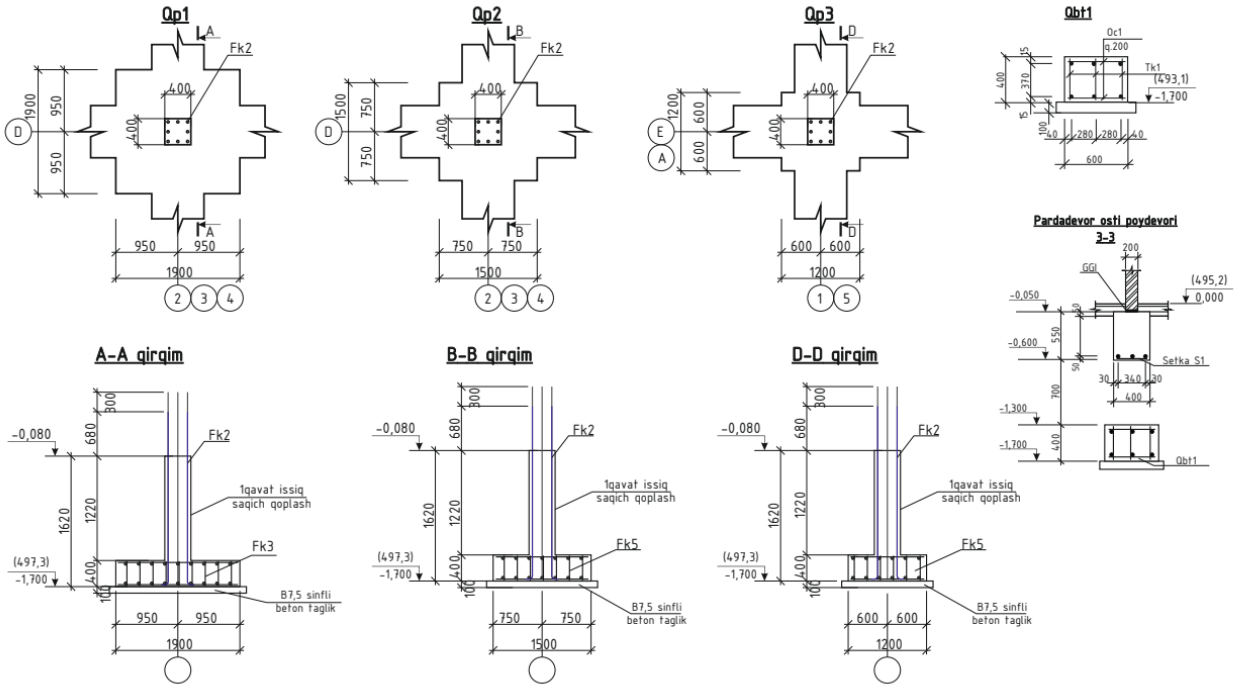
1. **Binoga kommunikatsiya quvurlari kirish va chiqishlari S-K-3,6,7 varaqlarida ko'rsatilgan.**
2. **Binoga kommunikatsiya quvurlari kirish va chiqishlari uchun:**
   truba Φ121mm L=400mm-1dona
   truba Φ57mm L=400mm-7dona

Joylashuv zanjiri



o'zg.	soni	varaq	xuj.№	imzo	sana	Shifr: MQ-		
						Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish		
							bosqich	varaq	varaqlar
LBM		To'raboyev				oshxona, kutubxona va faollar zali	IL	5	39
bajardi		Isomiddinov A.				Poydevor rejasi	"Andijon Universal Proyekt" MChJ		

Взам.инв.N | Подпись,дата | Инв.Nподл.



1. Poydevor rejasi MQ- varaqqa qarang
2. Fazoviy karkaslar Fk1,2,3,4,5,6 MQ-10 varag'iga qarang.
3. To'g'ri karkaslar Tk1,2 MQ-10 varag'iga qarang.
4. Setka S1,2 MQ-10 varag'iga qarang.

o'zg.	soni	varaq	xuj.№	imzo	sana	Shifr: MQ-		
						Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish		
LBM		To'raboyev				oshxona, kutubxona va faollar zali	bosqich IL	varaq 6 / varaqlar 39
bajardi		Isomiddinov A.				Qp1,2,3,4. Qbt1. A-A, B-B, D-D kesimlar	"Andijon Universal Proyekt" MChJ	

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Poydevor rejasi xarajatlar jadvali (boshlandi)

belgi	belgilash	nomi	soni	og'irligi kg (m, dona)	eslatma
Qp1	AQ- varaq	Quyma poydevor Qp1	4		dona
Qp2	AQ- varaq	Quyma poydevor Qp2	9		dona
Qp3	AQ- varaq	Quyma poydevor Qp3	4		dona
Qpt1	AQ- varaq	Quyma poydevor to'sin Qpt1	35,6		m
Fk1	AQ- varaq	Fazoviy karkas Fk1	68,8	20,36	m
S1	AQ- varaq	Setka S1	61,8	3,43	m
		B15 sinfli beton			m^3
	(1dona uchun xarajat)	Quyma poydevor Qp1			
Fk2	AQ- varaq	Fazoviy karkas Fk2	1	87,62	dona
Fk3	AQ- varaq	Fazoviy karkas Fk3	1	98,6	dona
		B15 sinfli beton	1,44		m^3
	(1dona uchun xarajat)	Quyma poydevor Qp2			
Fk2	AQ- varaq	Fazoviy karkas Fk2	1	87,62	dona
Fk4	AQ- varaq	Fazoviy karkas Fk4	1	62,4	dona
		B15 sinfli beton	0,9		m^3
	(1dona uchun xarajat)	Quyma poydevor Qp3			
Fk2	AQ- varaq	Fazoviy karkas Fk2	1	87,62	dona
Fk5	AQ- varaq	Fazoviy karkas Fk5	1	36,36	dona
		B15 sinfli beton	0,576		m^3
	(1metr uchun xarajat)	Quyma poydevor to'sin Qpt1			
Tk1	AQ- varaq	To'g'ri karkas Tk1	3	3,57	dona
Oc1	GOST 5781-82*	Φ6 AI L=560	10	0,12	dona
		B15 sinfli beton	0,24		m^3
	(1dona uchun xarajat)	Fazoviy karkas Fk1		**20,36**	
1	GOST 5781-82*	Φ12 AIII L=1000	8	0,888	dona
2	GOST 5781-82*	Φ12 AIII L=750	10	0,666	dona
3	GOST 5781-82*	Φ12 AIII L=370	20	0,33	dona

Poydevor rejasi xarajatlar jadvali (tugadi)

belgi	belgilash	nomi	soni	og'irligi kg (m, dona)	eslatma
	(1dona uchun xarajat)	Fazoviy karkas Fk2		**87,62**	
4	GOST 5781-82*	Φ25 AIII L=2720	4	10,47	dona
5	GOST 5781-82*	Φ25 AIII L=2420	4	9,32	dona
6	GOST 5781-82*	Φ8 AI L=1480	14	0,58	dona
7	GOST 5781-82*	Φ8 AI L=440	28	0,17	dona
	(1dona uchun xarajat)	Fazoviy karkas Fk3		**98,6**	
8	GOST 5781-82*	Φ12 AIII L=1850	40	1,64	dona
3	GOST 5781-82*	Φ12 AIII L=370	100	0,33	dona
	(1dona uchun xarajat)	Fazoviy karkas Fk4		**62,4**	
9	GOST 5781-82*	Φ12 AIII L=1450	32	1,29	dona
3	GOST 5781-82*	Φ12 AIII L=370	64	0,33	dona
	(1dona uchun xarajat)	Fazoviy karkas Fk5		**36,36**	
10	GOST 5781-82*	Φ12 AIII L=1150	24	1,02	dona
3	GOST 5781-82*	Φ12 AIII L=370	36	0,33	dona
	(1metr uchun xarajat)	To'g'ri karkas Tk1		**3,57**	
11	GOST 5781-82*	Φ16 AIII L=1000	2	1,58	dona
12	GOST 5781-82*	Φ6 AIII L=370	5	0,082	dona
	(1metr uchun xarajat)	Setka S1		**3,43**	
1	GOST 5781-82*	Φ12 AIII L=1000	2	0,888	dona
3	GOST 5781-82*	Φ12 AIII L=370	5	0,33	dona

o'zg.	soni	varaq	xuj.№	imzo	sana	Shifr: MQ-		
						Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish		
LBM		To'raboyev				oshxona, kutubxona va faollar zali	bosqich IL	varaq 7 / varaqlar 39
bajardi		Isomiddinov A.				Poydevor rejasi xarajatlar jadvali (boshlandi) 1-1, 2-2, 3-3 qirqimlar	"Andijon Universal Proyekt" MChJ	

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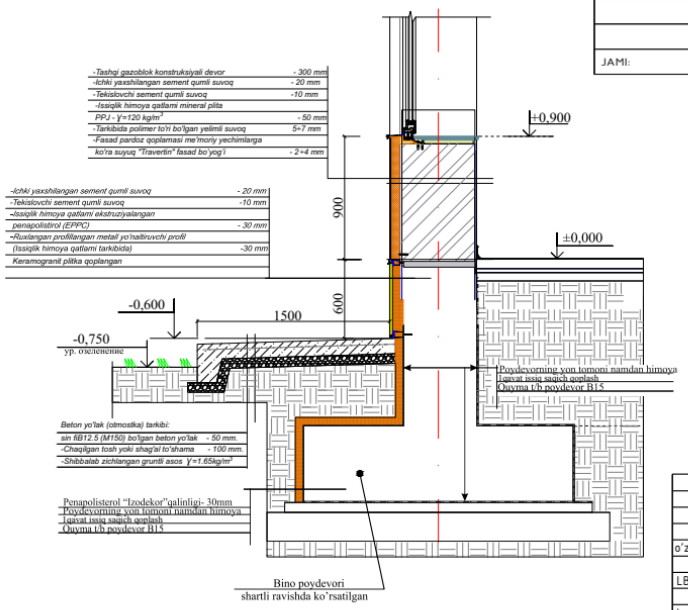
Poydevor elementlarini tanlash

Elementlar nomi	Beton mahsulotlari		Armatura mahsulotlari									
			Armatura sinfi									JAMI
			A-I			A-III						
	Beton sinfi	m3	GOST 5781-82*									
			Φ6	Φ8	Jami	Φ12	Φ14	Φ16	Φ22	Φ25	Jami	
Quyma poydevor QP	B15	16,16	----	218,96	218,96	1101,44	----	----	----	1345,72	2447,16	
Tasmasimon quyma asos	B15	67,5	----	----	----	1400,77	----	----	----	----	1400,77	
Quyma beton to'sin Qbt	B15	8,13	86,5	----	86,5	----	----	337,48	----	----	337,48	
Pardadevor osti	B15	13,6	----	----	----	211,97	----	----	----	----	211,97	
JAMI:		99,25	86,5	218,96	305,46	2714,18	----	337,48	----	1345,72	4397,38	4702,84

Binoning pastki qismi tashqi devorining ±0.00m. satxdagi Pastdagi konstruktsiyalar bilan bog'lanish tuguni №1



Penapolistrol "Izodekor" qalinligi-30mm-172,0 m²
Poydevorning yon tomoni namdan himoya qatlamli 1qavat issiq saqich qoplash-332,0 m²

1. Barcha yer osti beton va temir-beton konstruktsiyalari GOST 10178-85 bo'yicha portland sementida B15 beton sinfli betondan tayyorlangan bo'lishi kerak.
2. Poydevor osti asosi B7,5 beton sinfli qalinligi 100 mm bo'lishi kerak.
3. Gorizontal gidroizolyatsiya G.G.I qum sement 1:3 nisbatda, qalinligi 30mm.
4. Yer bilan aloqa qiladigan poydevorlarning yon yuzalari va poydevor osti asosini ustki qismi 2 marta issiq bitum bilan qoplanishi kerak.
5. Binoning pol qoplamasi ustki balandlik belgisi binoning 0,000 belgisi deb qabul qilinsin

o'zg.	soni	varaq	xuj.№	imzo	sana	Shifr:			AQ-
						Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish			
LBM		To'raboyev				oshxona, kutubxona va faollar zali	bosqich	varaq	varaqlar
							IL	8	39
bajardi		Isomiddinov A.				Poydevor elementlarini tanlash. Poydevorning izolyatsiyasi tuguni	"Andijon Universal Proyekt" MChJ		

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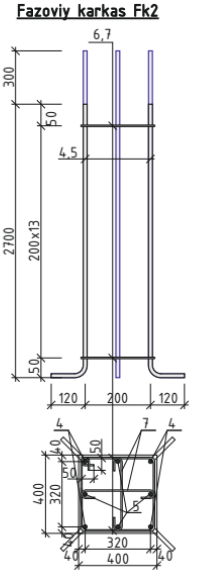
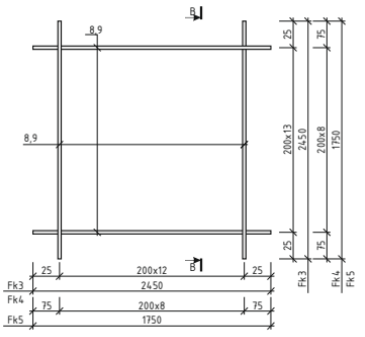
Fazoviy karkas Fk1

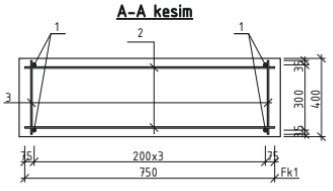
Fazoviy karkas Fk2



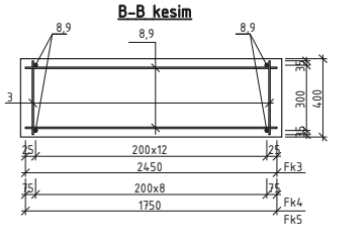
Fazoviy karkas Fk3, Fk4, Fk5



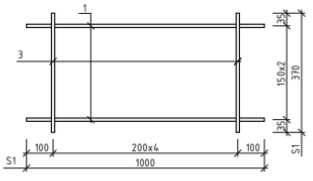
A-A kesim



B-B kesim



Setka S1



o'zg.	soni	varaq	xuj.№	imzo	sana	Shifr:			MQ-
						Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish			
LBM		To'raboyev				oshxona, kutubxona va faollar zali	bosqich	varaq	varaqlar
							IL	9	39
bajardi		Isomiddinov A.				Fazoviy karkaslar Fk1,2,3,4,5,6. Setka S1. Kesimlar A-A, B-B.	"Andijon Universal Proyekt" MChJ		

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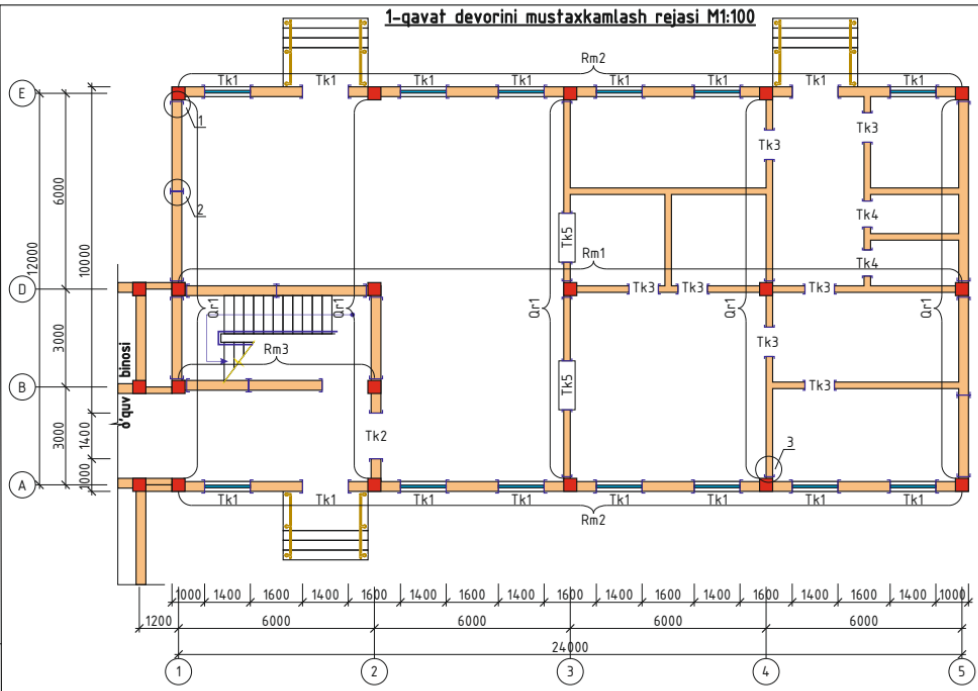
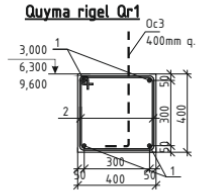
1-qavat devorini mustaxkamlash rejasi M1:100



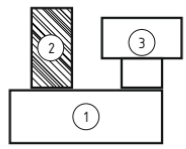
Devorni mustahkamlash elementlari xarajatlar jadvali

belgi	belgilash	nomi	soni dona	og'irligi kg (m,dona)	eslatma
Rm1	AQ- varaq	Rama Rm1	1		dona
Rm2	AQ- varaq	Rama Rm2	2		dona
Rm3	AQ- varaq	Rama Rm3	1		dona
Qr1	AQ- varaq	Quyma rigel Qr1	108		m
Gs1	Cep 2.130-6c. B1	Gorizontal setka Gs1			m
	(1metr uchun sarf)	Quyma rigel Qr1			20,58
1	GOST 5781-82*	Φ25 AIII L=1000	4	3,85	15,4
2	GOST 5781-82*	Φ8 AI L=1480	5	0,58	2,9
Oc3	GOST 5781-82*	Φ16 AIII L=720	2	1,14	2,28
		B25 sinfli beton	0,16		m^3

Quyma rigel Qr1



Joylashuv zanjiri



1. Rama Rm1 MQ-18 varaqqa qarang
2. Rama Rm2 MQ-21 varaqqa qarang
3. Devorni kuchaytirish elementlari xarajatlar jadvali MQ-16, MQ-17 varaqqa qarang
4. Tuynukni kuchaytirish chizmasi va xarajatlar jadvali MQ-30, MQ-31, MQ-32, MQ-33 varaqqa qarang
5. Pardadevorlarni kuchaytirish xarajatlar jadvali MQ-33 varaqqa qarang

o'zg.	soni	varaq	xuj.№	imzo	sana
LBM		To'raboyev			
bajardi		Isomiddinov A.			

Shifr: AQ-

Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish

oshxona, kutubxona va faollar zali

bosqich	varaq	varaqlar
IL	10	39

1-qavat devor rejasi. Xonalar tavsifi

"Andijon Universal Proyekt" MChJ

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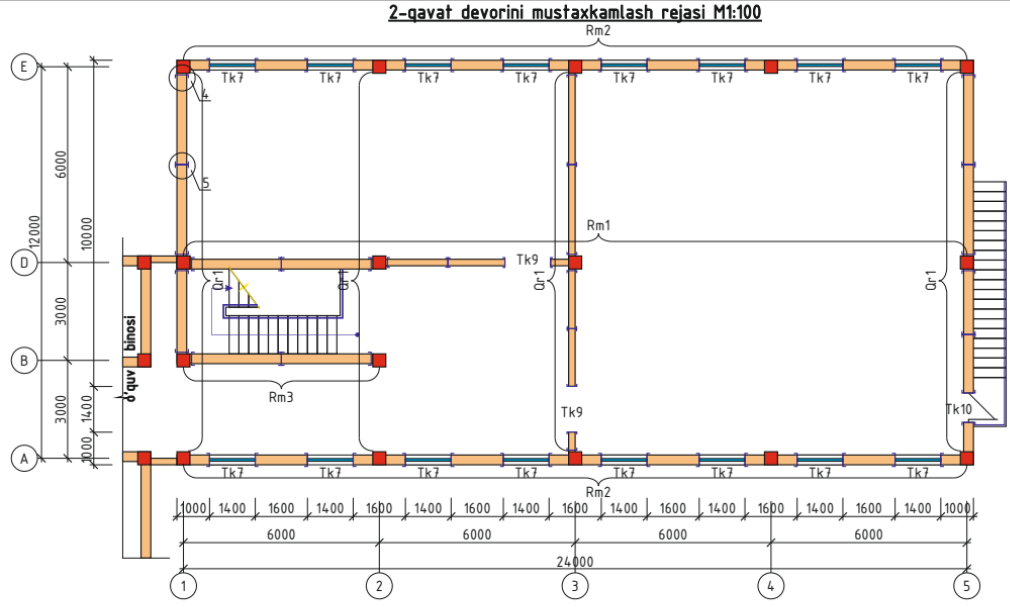
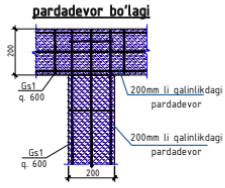
2-qavat devorini mustaxkamlash rejasi M1:100



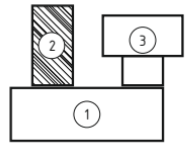
200mm li qalinlikdagi pardadevor bo'lagi



Gazoblok sarfi:

1. 300mm qalinlikdagi tashqi devor - 105,87m³
2. 300mm qalinlikdagi ichki devor - 29,0m³
3. 200mm qalinlikdagi ichki devor - 235,95m²

Joylashuv zanjiri



Devorni mustahkamlash elementlarini tanlash

Elementlar nomi	Beton mahsulotlari		Armatura mahsulotlari								
			Armatura sinfi								JAMI
			A-I	A-III							
	Beton sinfi	m3	GOST 5781-82*								
			Φ6	Φ8	Jami	Φ16	Φ18	Φ22	Φ25	Jami	
Quyma rigel	B25	17,28	----	313,2	313,2	308,94	----	----	1663,2	1972,14	
Ustun	B25	21,81	----	576,6	576,6	----	----	----	3307,0	3307,0	
Rigel	B25	21,51	----	1346,0	1346,0	1437,06	----	1215,6	3390,5	6043,16	
JAMI:		60,6	----	2235,8	2235,8	1746,0	----	1215,6	8360,7	11322,3	13244,0

o'zg.	soni	varaq	xuj.№	imzo	sana
LBM		To'raboyev			
bajardi		Isomiddinov A.			

Shifr: AQ-

Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish

oshxona, kutubxona va faollar zali

bosqich	varaq	varaqlar
IL	11	39

2-qavat devor rejasi. Xonalar tavsifi

"Andijon Universal Proyekt" MChJ

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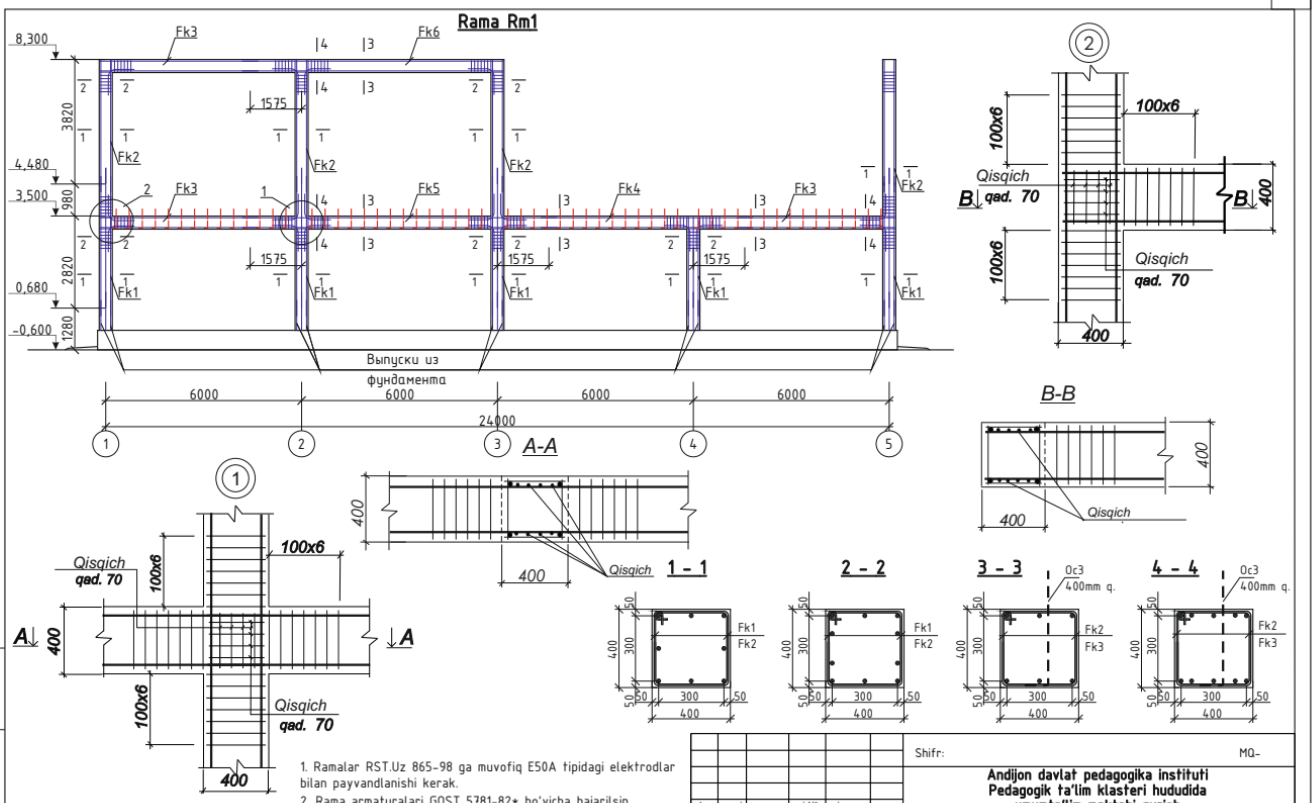

1. Ramalar RST.Uz 865-98 ga muvofiq E50A tipidagi elektrodlar bilan payvandlanishi kerak.
2. Rama armaturalari GOST 5781-82* bo'yicha bajarilsin.
3. Barcha payvandlangan choklar payvandlangan elementlarning eng kichik qalinligida qabul qilinadi, lekin h=8mm dan kam bo'lmasligi kerak.
4. Ushbu varaq MQ- varaqlari bilan birgalikda o'qiladi.

o'zg.	soni	varaq	xuj.№	imzo	sana	Shifr: MQ-		
						Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish		
LBM		To'raboyev				oshxona, kutubxona va faollar zali	bosqich IL	varaq 12 / varaqlar 39
bajardi		Isomiddinov A.				Rama Rm1. 1,2 tugunlar. 1-1, 2-2, 3-3, 4-4, A-A, B-B kesimlar	"Andijon Universal Proyekt" MChJ	

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Rama Rm1 elementlarining xarajatlar jadvali

belgi	belgilash	nomi	soni	og'irligi kg	eslatma
	(1 dona uchun xarajat)	Rama Rm1			
		Ustun			
Fk1	Ushbu varaq	Fazoviy karkas Fk1	5	155,48	dona
Fk2	Ushbu varaq	Fazoviy karkas Fk2	4	77,84	dona
		B25 sinfli beton	5,87		m^3
		Rigel			
Fk3	Ushbu varaq	Fazoviy karkas Fk3	3	180,12	dona
Fk4	Ushbu varaq	Fazoviy karkas Fk4	1	232,44	dona
Fk5	Ushbu varaq	Fazoviy karkas Fk5	1	334,28	dona
Fk6	Ushbu varaq	Fazoviy karkas Fk6	1	281,2	dona
OC1	GOST 5781-82*	Φ22 AIII L=1600	36	4,41	dona
OC3	GOST 5781-82*	Φ16 AIII L=720	60	1,14	dona
X1	GOST 5781-82*	Qisqich Φ8 AI L=1480	108	0,58	dona
		B25 sinfli beton	5,38		m^3
	(1 dona uchun xarajat)	Fazoviy karkas Fk1		155,48	
1	GOST 5781-82*	Φ25 AIII L=3800	8	14,63	dona
2	GOST 5781-82*	Φ8 AI L=1480	25	0,58	dona
OC2	GOST 5781-82*	Φ25 AIII L=500	8	1,93	dona
Oc4	GOST 5781-82*	Φ8 AI L=440	50	0,17	dona
	(1 dona uchun xarajat)	Fazoviy karkas Fk2		77,84	
1	GOST 5781-82*	Φ25 AIII L=3800	4	14,63	dona
2	GOST 5781-82*	Φ8 AI L=1480	20	0,58	dona
OC2	GOST 5781-82*	Φ25 AIII L=500	4	1,93	dona
	(1 dona uchun xarajat)	Fazoviy karkas Fk3		180,12	
3	GOST 5781-82*	Φ25 AIII L=4600	8	17,71	dona
2	GOST 5781-82*	Φ8 AI L=1480	25	0,58	dona
OC2	GOST 5781-82*	Φ25 AIII L=500	8	1,93	dona
Oc4	GOST 5781-82*	Φ8 AI L=440	50	0,17	dona

Rama Rm1 elementlarining xarajatlar jadvali

belgi	belgilash	nomi	soni	og'irligi kg	eslatma
	(1 dona uchun xarajat)	Fazoviy karkas Fk4		232,44	
4	GOST 5781-82*	Φ25 AIII L=6000	8	23,1	dona
2	GOST 5781-82*	Φ8 AI L=1480	35	0,58	dona
OC2	GOST 5781-82*	Φ25 AIII L=500	8	1,93	dona
Oc4	GOST 5781-82*	Φ8 AI L=440	70	0,17	dona
	(1dona uchun xarajat)	Fazoviy karkas Fk5		334,28	
5	GOST 5781-82*	Φ25 AIII L=9150	8	35,23	dona
2	GOST 5781-82*	Φ8 AI L=1480	57	0,58	dona
Oc4	GOST 5781-82*	Φ8 AI L=440	114	0,17	dona
	(1dona uchun xarajat)	Fazoviy karkas Fk6		281,2	
6	GOST 5781-82*	Φ25 AIII L=7755	8	29,86	dona
2	GOST 5781-82*	Φ8 AI L=1480	46	0,58	dona
Oc4	GOST 5781-82*	Φ8 AI L=440	92	0,17	dona

o'zg.	soni	varaq	xuj.№	imzo	sana	Shifr: MQ-		
						Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish		
LBM		To'raboyev				oshxona, kutubxona va faollar zali	bosqich IL	varaq 13 / varaqlar 39
bajardi		Isomiddinov A.				Rama Rm1 xarajatlar jadvali	"Andijon Universal Proyekt" MChJ	

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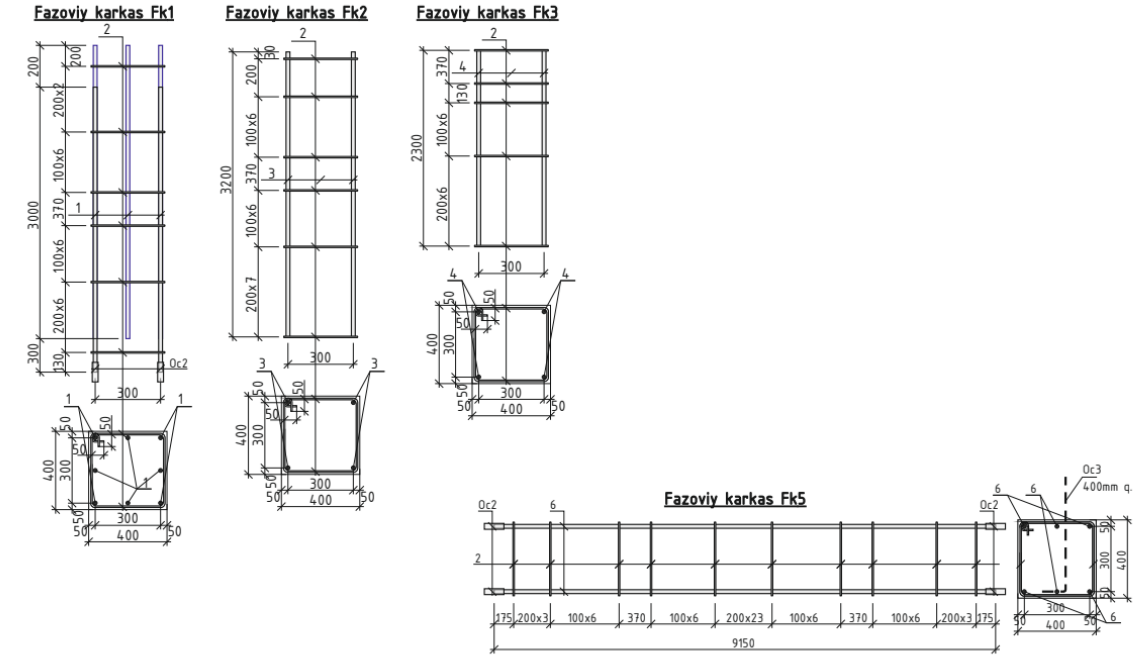

o'zg.	soni	varaq	xuj.№	imzo	sana	Shifr: MQ-
						Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish
LBM		To'raboyev				oshxona, kutubxona va faollar zali — bosqich: IL; varaq: 14; varaqlar: 39
bajardi		Isomiddinov A.				Fazoviy karkaslar Fk1,2,3,4,5. — "Andijon Universal Proyekt" MChJ

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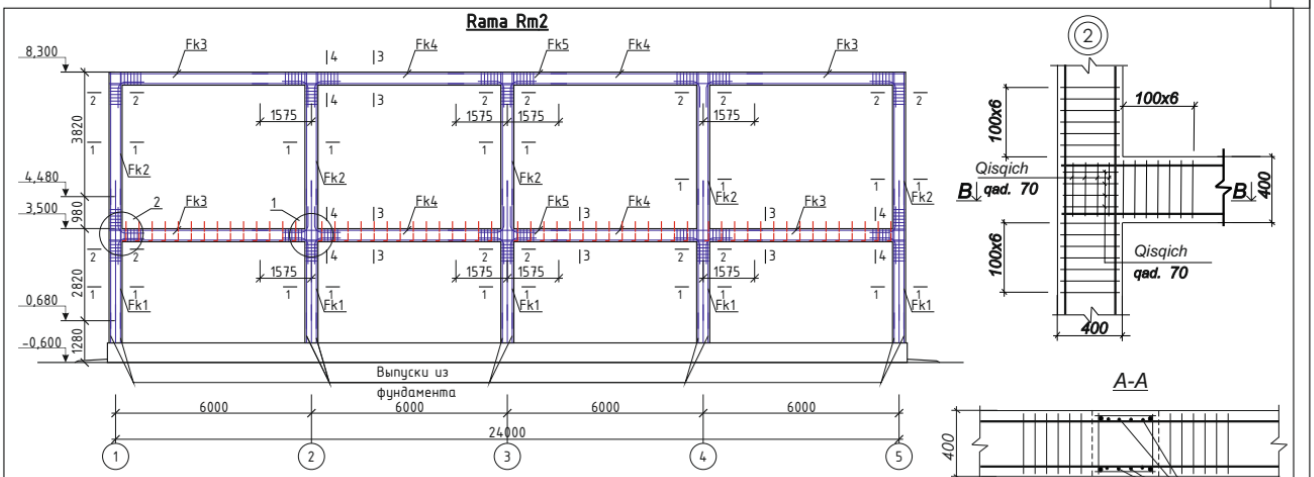
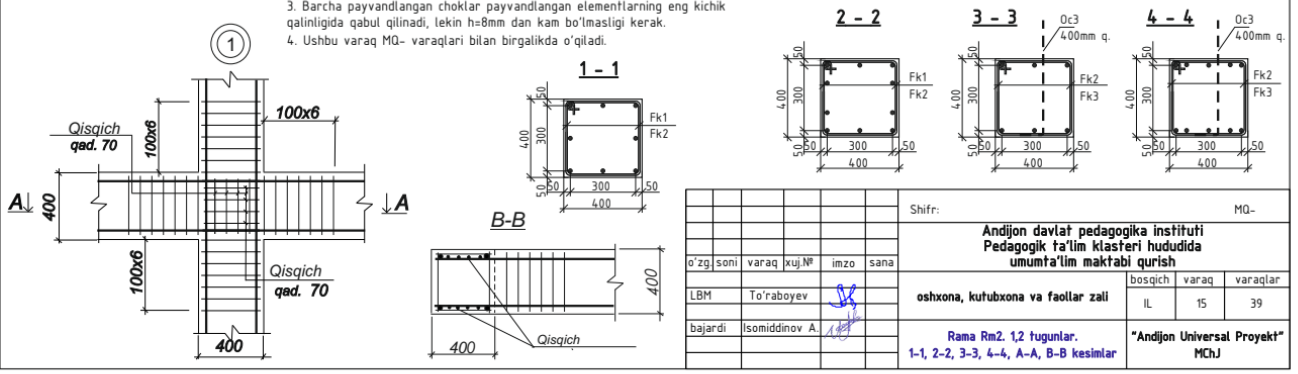


1. Ramalar RST.Uz 865-98 ga muvofiq E50A tipidagi elektrodlar bilan payvandlanishi kerak.
2. Rama armaturalari GOST 5781-82* bo'yicha bajarilsin.
3. Barcha payvandlangan choklar payvandlangan elementlarning eng kichik qalinligida qabul qilinadi, lekin h=8mm dan kam bo'lmasligi kerak.
4. Ushbu varaq MQ- varaqlari bilan birgalikda o'qiladi.



o'zg.	soni	varaq	xuj.№	imzo	sana	Shifr: MQ-
						Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish
LBM		To'raboyev				oshxona, kutubxona va faollar zali — bosqich: IL; varaq: 15; varaqlar: 39
bajardi		Isomiddinov A.				Rama Rm2. 1,2 tugunlar. 1-1, 2-2, 3-3, 4-4, A-A, B-B kesimlar — "Andijon Universal Proyekt" MChJ

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Rama Rm2 elementlarining xarajatlar jadvali

belgi	belgilash	nomi	soni	og'irligi kg	eslatma
	(1 dona uchun xarajat)	Rama Rm2			
		Ustun			
Fk1	Ushbu varaq	Fazoviy karkas Fk1	5	155,48	dona
Fk2	Ushbu varaq	Fazoviy karkas Fk2	5	77,84	dona
		B25 sinfli beton	6,64		m^3
		Rigel			
Fk3	Ushbu varaq	Fazoviy karkas Fk3	4	136,7	dona
Fk4	Ushbu varaq	Fazoviy karkas Fk4	4	175,8	dona
Fk5	Ushbu varaq	Fazoviy karkas Fk5	2	87,54	dona
OC1	GOST 5781-82*	Φ22 AIII L=1600	48	4,41	dona
OC3	GOST 5781-82*	Φ16 AIII L=720	60	1,14	dona
X1	GOST 5781-82*	Qisqich Φ8 AI L=1480	120	0,58	dona
		B25 sinfli beton	7,17		m^3
	(1 dona uchun xarajat)	Fazoviy karkas Fk1		155,48	
1	GOST 5781-82*	Φ25 AIII L=3800	8	14,63	dona
2	GOST 5781-82*	Φ8 AI L=1480	25	0,58	dona
OC2	GOST 5781-82*	Φ25 AIII L=500	8	1,93	dona
Oc4	GOST 5781-82*	Φ8 AI L=440	50	0,17	dona
	(1 dona uchun xarajat)	Fazoviy karkas Fk2		77,84	
1	GOST 5781-82*	Φ25 AIII L=3800	4	14,63	dona
2	GOST 5781-82*	Φ8 AI L=1480	20	0,58	dona
OC2	GOST 5781-82*	Φ25 AIII L=500	4	1,93	dona
	(1 dona uchun xarajat)	Fazoviy karkas Fk3		136,7	
3	GOST 5781-82*	Φ25 AIII L=4600	4	17,71	dona
4	GOST 5781-82*	Φ22 AIII L=4600	2	13,71	dona
2	GOST 5781-82*	Φ8 AI L=1480	25	0,58	dona
OC2	GOST 5781-82*	Φ25 AIII L=500	8	1,93	dona
Oc4	GOST 5781-82*	Φ8 AI L=440	50	0,17	dona
	(1 dona uchun xarajat)	Fazoviy karkas Fk4		175,8	
5	GOST 5781-82*	Φ25 AIII L=6000	4	23,1	dona
6	GOST 5781-82*	Φ22 AIII L=6000	2	17,88	dona

Rama Rm2 elementlarining xarajatlar jadvali

belgi	belgilash	nomi	soni	og'irligi kg	eslatma
2	GOST 5781-82*	Φ8 AI L=1480	35	0,58	dona
OC2	GOST 5781-82*	Φ25 AIII L=500	8	1,93	dona
Oc4	GOST 5781-82*	Φ8 AI L=440	70	0,17	dona
	(1dona uchun xarajat)	Fazoviy karkas Fk5		87,54	
5	GOST 5781-82*	Φ25 AIII L=3150	4	12,13	dona
5	GOST 5781-82*	Φ22 AIII L=3150	2	9,39	dona
2	GOST 5781-82*	Φ8 AI L=1480	22	0,58	dona
Oc4	GOST 5781-82*	Φ8 AI L=440	44	0,17	dona

o'zg.	soni	varaq	xuj.№	imzo	sana	Shifr: MQ-		
						Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish		
LBM		To'raboyev				oshxona, kutubxona va faollar zali	bosqich IL	varaq 16 / varaqlar 39
bajardi		Isomiddinov A.				Rama Rm2 xarajatlar jadvali	"Andijon Universal Proyekt" MChJ	

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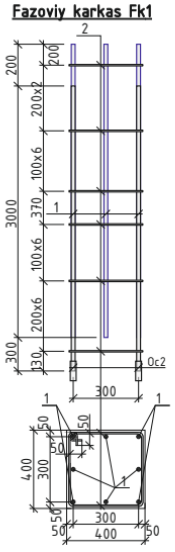
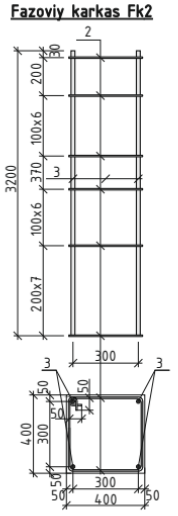
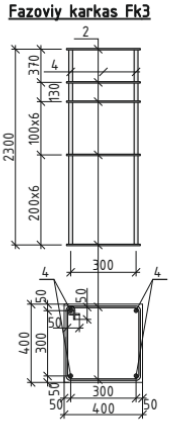
Fazoviy karkas Fk1



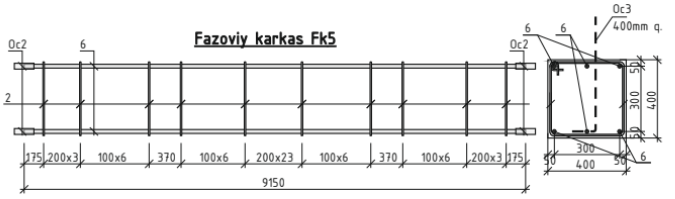
Fazoviy karkas Fk2



Fazoviy karkas Fk3



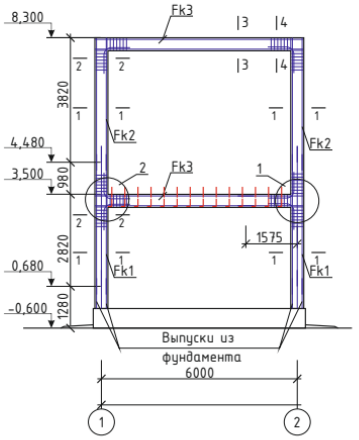
Fazoviy karkas Fk5

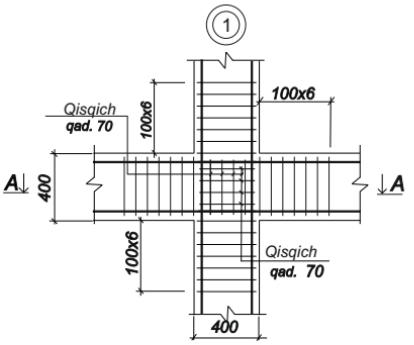


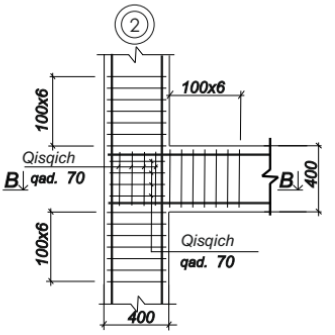
o'zg.	soni	varaq	xuj.№	imzo	sana	Shifr: MQ-		
						Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish		
LBM		To'raboyev				oshxona, kutubxona va faollar zali	bosqich IL	varaq 17 / varaqlar 39
bajardi		Isomiddinov A.				Fazoviy karkaslar Fk1,2,3,4,5.	"Andijon Universal Proyekt" MChJ	

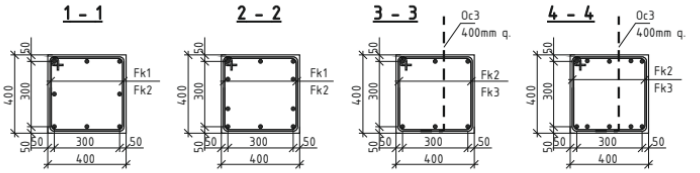
Взам.инв.N | Подпись,дата | Инв.Nподл.

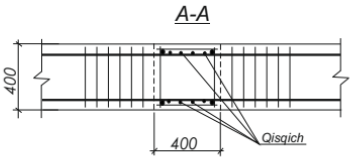
Rama Rm3

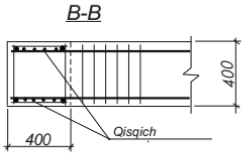












1. Ramalar RST.Uz 865-98 ga muvofiq E50A tipidagi elektrodlar bilan payvandlanishi kerak.
2. Rama armaturalari GOST 5781-82* bo'yicha bajarilsin.
3. Barcha payvandlangan choklar payvandlangan elementlarning eng kichik qalinligida qabul qilinadi, lekin h=8mm dan kam bo'lmasligi kerak.
4. Ushbu varaq MQ- varaqlari bilan birgalikda o'qiladi.

o'zg.	soni	varaq	xuj.№	imzo	sana	Shifr: MQ-		
						Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish		
LBM		To'raboyev				oshxona, kutubxona va faollar zali	bosqich: IL	varaq: 18 / varaqlar: 39
bajardi		Isomiddinov A.				Rama Rm3. 1,2 tugunlar. 1-1, 2-2, 3-3, 4-4, A-A, B-B kesimlar	"Andijon Universal Proyekt" MChJ	

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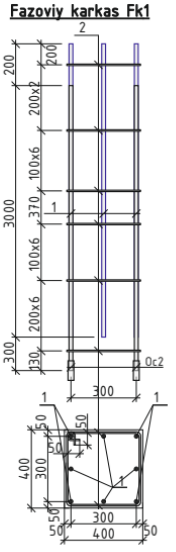
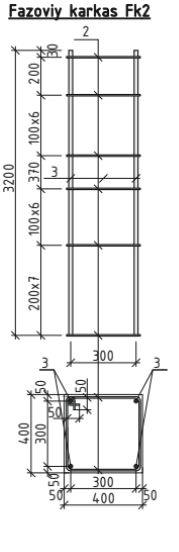
Rama Rm3 elementlarining xarajatlar jadvali

belgi	belgilash	nomi	soni	og'irligi kg	eslatma
	(1 dona uchun xarajat)	Rama Rm3			
		Ustun			
Fk1	Ushbu varaq	Fazoviy karkas Fk1	2	155,48	dona
Fk2	Ushbu varaq	Fazoviy karkas Fk2	2	77,84	dona
		B25 sinfli beton	2,66		m^3
		Rigel			
Fk3	Ushbu varaq	Fazoviy karkas Fk3	2	229,64	dona
OC1	GOST 5781-82*	Φ22 AIII L=1600	12	4,41	dona
OC3	GOST 5781-82*	Φ16 AIII L=720	15	1,14	dona
X1	GOST 5781-82*	Qisqich Φ8 AI L=1480	48	0,58	dona
		B25 sinfli beton	1,79		m^3
	(1 dona uchun xarajat)	Fazoviy karkas Fk1		155,48	
1	GOST 5781-82*	Φ25 AIII L=3800	8	14,63	dona
2	GOST 5781-82*	Φ8 AI L=1480	25	0,58	dona
OC2	GOST 5781-82*	Φ25 AIII L=500	8	1,93	dona
Oc4	GOST 5781-82*	Φ8 AI L=440	50	0,17	dona
	(1 dona uchun xarajat)	Fazoviy karkas Fk2		77,84	
1	GOST 5781-82*	Φ25 AIII L=3800	4	14,63	dona
2	GOST 5781-82*	Φ8 AI L=1480	20	0,58	dona
OC2	GOST 5781-82*	Φ25 AIII L=500	4	1,93	dona
	(1 dona uchun xarajat)	Fazoviy karkas Fk3		229,64	
3	GOST 5781-82*	Φ25 AIII L=6350	8	24,45	dona
2	GOST 5781-82*	Φ8 AI L=1480	37	0,58	dona
Oc4	GOST 5781-82*	Φ8 AI L=440	74	0,17	dona

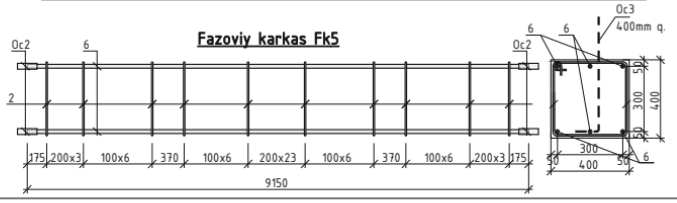
Fazoviy karkas Fk1



Fazoviy karkas Fk2



Fazoviy karkas Fk5



o'zg.	soni	varaq	xuj.№	imzo	sana	Shifr: MQ-		
						Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish		
LBM		To'raboyev				oshxona, kutubxona va faollar zali	bosqich: IL	varaq: 19 / varaqlar: 39
bajardi		Isomiddinov A.				Rama Rm3 xarajatlar jadvali. Fazoviy karkaslar Fk1,2,3.	"Andijon Universal Proyekt" MChJ	

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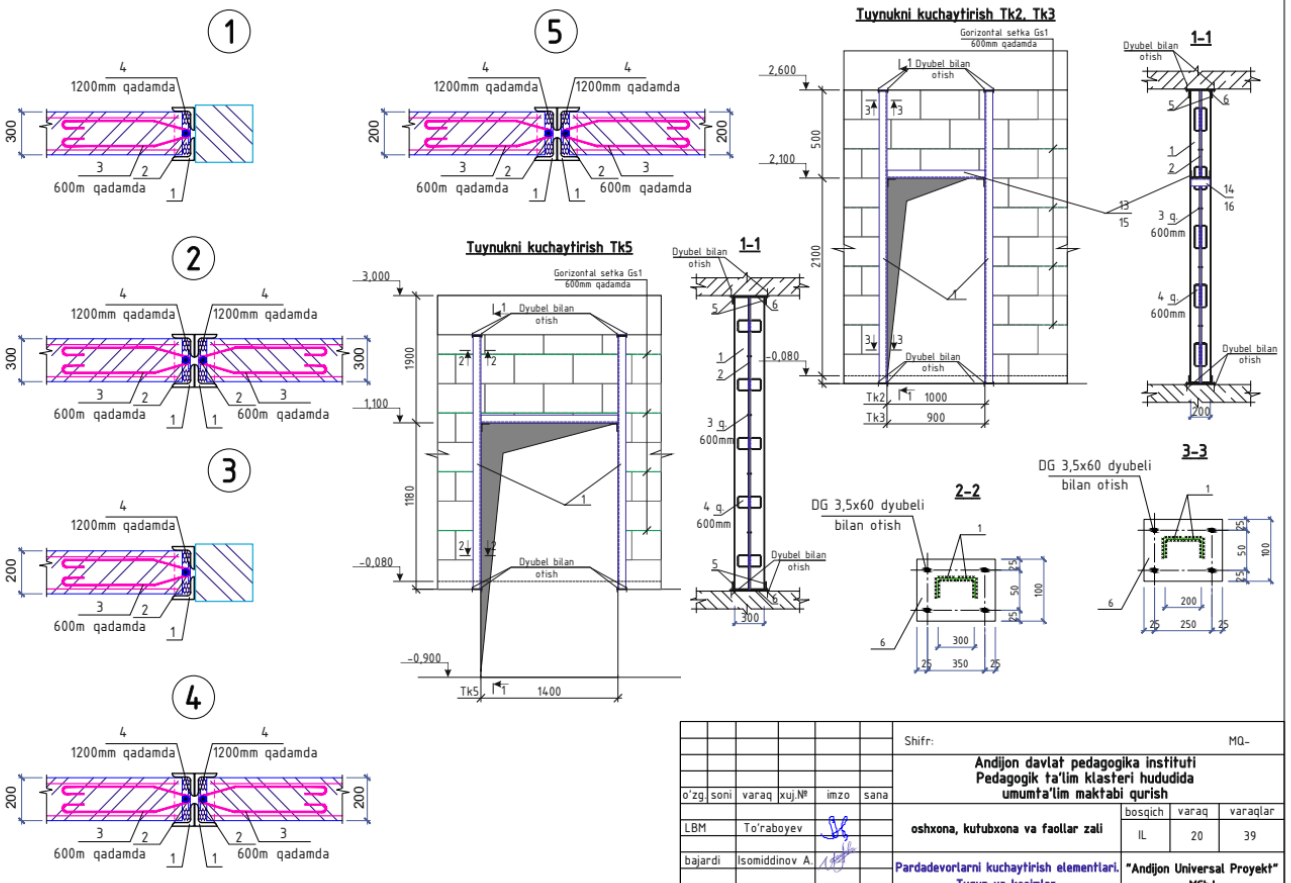
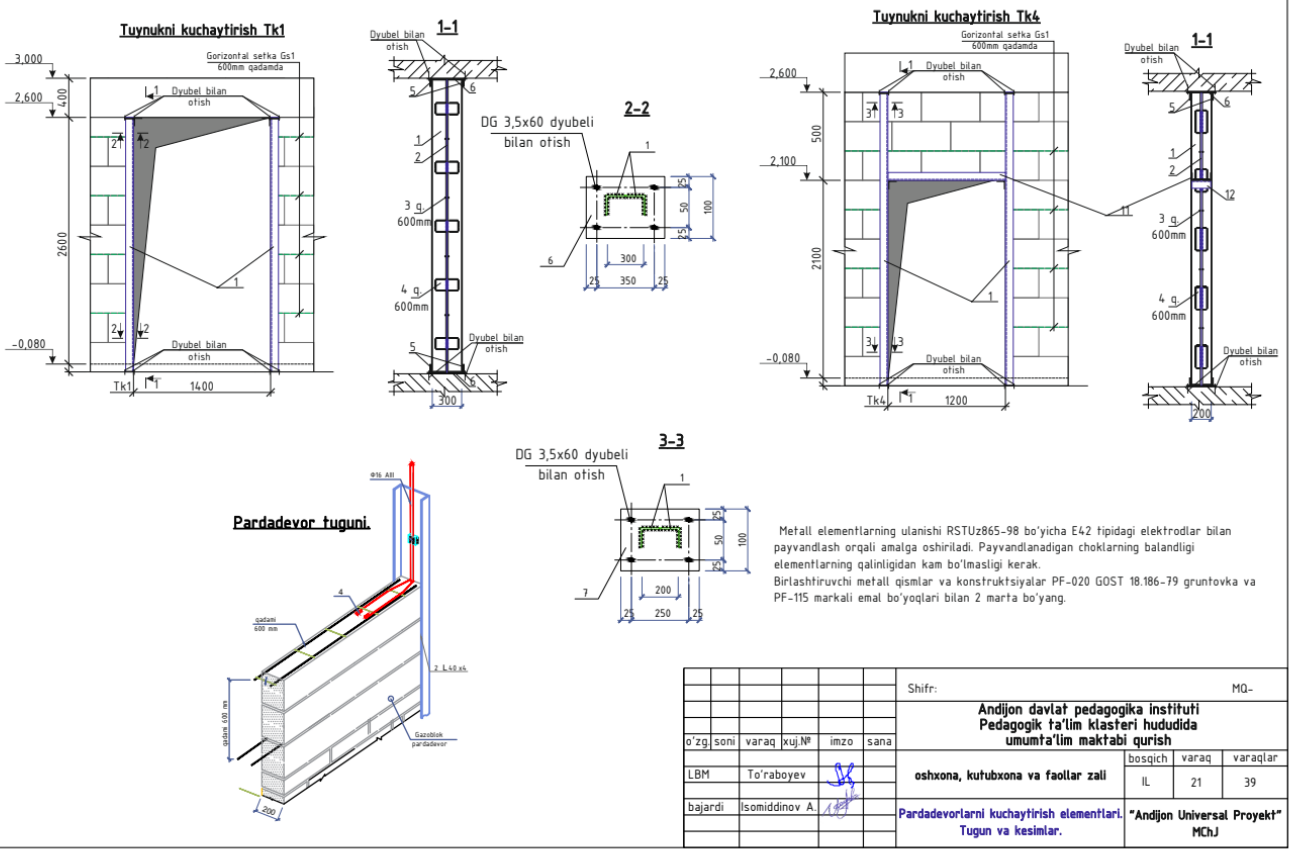


o'zg.	soni	varaq	xuj.№	imzo	sana	Shifr:	MQ-
						Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish	
LBM		To'raboyev				oshxona, kutubxona va faollar zali	bosqich: IL; varaq: 20; varaqlar: 39
bajardi		Isomiddinov A.				Pardadevorlarni kuchaytirish elementlari. Tugun va kesimlar.	"Andijon Universal Proyekt" MChJ

Взам.инв.N | Подпись,дата | Инв.Nподл.



Metall elementlarning ulanishi RSTUz865-98 bo'yicha E42 tipidagi elektrodlar bilan payvandlash orqali amalga oshiriladi. Payvandlanadigan choklarning balandligi elementlarning qalinligidan kam bo'lmasligi kerak.
Birlashtiruvchi metall qismlar va konstruktsiyalar PF-020 GOST 18.186-79 gruntovka va PF-115 markali emal bo'yoqlari bilan 2 marta bo'yang.

o'zg.	soni	varaq	xuj.№	imzo	sana	Shifr:	MQ-
						Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish	
LBM		To'raboyev				oshxona, kutubxona va faollar zali	bosqich: IL; varaq: 21; varaqlar: 39
bajardi		Isomiddinov A.				Pardadevorlarni kuchaytirish elementlari. Tugun va kesimlar.	"Andijon Universal Proyekt" MChJ

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Devor, pardadevor va tuynuklarni kuchaytirish elementlarining xarajatlar jadvali (boshlandi)

belgi	belgilash	nomi	soni	1dona og'irligi, kg	eslatma
1		1-tugun	14	28,14	dona
2		2-tugun	5	54,74	dona
3		3-tugun	6	25,94	dona
4		4-tugun	11	34,85	dona
5		5-tugun	5	68,16	dona
6		6-tugun	5	32,39	dona
7		7-tugun	3	61,38	dona
Tk1		Tuynukni kuchaytirish Tk1	16	56,28	dona
Tk2		Tuynukni kuchaytirish Tk2	1	66,65	dona
Tk3		Tuynukni kuchaytirish Tk3	7	58,52	dona
Tk4		Tuynukni kuchaytirish Tk4	2	57,54	dona
Tk5		Tuynukni kuchaytirish Tk5	2	61,95	dona
Tk7		Tuynukni kuchaytirish Tk7	16	69,7	dona
Tk9		Tuynukni kuchaytirish Tk9	2	72,93	dona
Tk10		Tuynukni kuchaytirish Tk10	1	77,65	dona
	(1 dona uchun xarajat)	1-tugun		28,14	
1	GOST8509-93	L40x4 L=3180	2	7,7	15,4
2	GOST5781-82*	Ф12AIII L=3180	1	2,82	2,82
3	GOST5781-82*	Ф6AI L=850	6	0,19	1,14
4	GOST19903-74	-4x100x250	6	0,79	4,74
5	GOST19903-74	-4x80x150	4	0,38	1,52
6	GOST19903-74	-4x100x400	2	1,26	2,52
	Dyubel ankerniy metallicheskiy Ф10 L=100		8		dona
	(1 dona uchun xarajat)	2-tugun		54,74	
1	GOST8509-93	L40x4 L=3180	4	7,7	30,8
2	GOST5781-82*	Ф12AIII L=3180	2	2,82	5,64
3	GOST5781-82*	Ф6AI L=850	12	0,19	2,28
4	GOST19903-74	-4x100x250	12	0,79	9,48
5	GOST19903-74	-4x80x150	4	0,38	1,52
7	GOST19903-74	-4x200x400	2	2,51	5,02
	Dyubel ankerniy metallicheskiy Ф10 L=100		8		dona

Devor, pardadevor va tuynuklarni kuchaytirish elementlarining xarajatlar jadvali (davomi)

belgi	belgilash	nomi	soni	1dona og'irligi, kg	eslatma
	(1 dona uchun xarajat)	3-tugun		25,94	
1	GOST8509-93	L40x4 L=3180	2	7,7	15,4
2	GOST5781-82*	Ф12AIII L=3180	1	2,82	2,82
3	GOST5781-82*	Ф6AI L=850	6	0,19	1,14
8	GOST19903-74	-4x100x170	6	0,53	3,18
5	GOST19903-74	-4x80x150	4	0,38	1,52
9	GOST19903-74	-4x100x300	2	0,94	1,88
	Dyubel ankerniy metallicheskiy Ф10 L=100		8		dona
	(1 dona uchun xarajat)	4-tugun		34,85	
1	GOST8509-93	L40x4 L=4180	2	10,12	20,24
2	GOST5781-82*	Ф12AIII L=4180	1	3,71	3,71
3	GOST5781-82*	Ф6AI L=850	7	0,19	1,33
4	GOST19903-74	-4x100x250	7	0,79	5,53
5	GOST19903-74	-4x80x150	4	0,38	1,52
6	GOST19903-74	-4x100x400	2	1,26	2,52
	Dyubel ankerniy metallicheskiy Ф10 L=100		8		dona
	(1 dona uchun xarajat)	5-tugun		68,16	
1	GOST8509-93	L40x4 L=4180	4	10,12	40,48
2	GOST5781-82*	Ф12AIII L=4180	2	3,71	7,42
3	GOST5781-82*	Ф6AI L=850	14	0,19	2,66
4	GOST19903-74	-4x100x250	14	0,79	11,06
5	GOST19903-74	-4x80x150	4	0,38	1,52
7	GOST19903-74	-4x200x400	2	2,51	5,02
	Dyubel ankerniy metallicheskiy Ф10 L=100		8		dona

o'zg.	soni	varaq	xuj.№	imzo	sana
LBM		To'raboyev			
bajardi		Isomiddinov A.			

Shifr: MQ-

Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish

oshxona, kutubxona va faollar zali

bosqich	varaq	varaqlar
IL	22	39

Devor, pardadevor va tuynuklarni kuchaytirish elementlarining xarajatlar jadvali (boshlandi, davomi)

"Andijon Universal Proyekt" MChJ

Взам.инв.N | Подпись,дата | Инв.Nподл.

Devor, pardadevor va tuynuklarni kuchaytirish elementlarining xarajatlar jadvali (davomi)

belgi	belgilash	nomi	soni	1dona og'irligi, kg	eslatma
	(1 dona uchun xarajat)	6-tugun		32,39	
1*	GOST8509-93	L40x4 L=4180	2	10,12	20,24
2*	GOST5781-82*	Ф12AIII L=4180	1	3,71	3,71
3	GOST5781-82*	Ф6AI L=850	7	0,19	1,33
8	GOST19903-74	-4x100x170	7	0,53	3,71
5	GOST19903-74	-4x80x150	4	0,38	1,52
9	GOST19903-74	-4x100x300	2	0,94	1,88
	Dyubel ankerniy metallicheskiy Ф10 L=100		8		dona
	(1 dona uchun xarajat)	7-tugun		61,38	
1*	GOST8509-93	L40x4 L=4180	4	10,12	40,48
2*	GOST5781-82*	Ф12AIII L=4180	2	3,71	7,42
3	GOST5781-82*	Ф6AI L=850	14	0,19	2,66
8	GOST19903-74	-4x100x170	14	0,53	7,42
5	GOST19903-74	-4x80x150	4	0,38	1,52
9	GOST19903-74	-4x100x300	2	0,94	1,88
	Dyubel ankerniy metallicheskiy Ф10 L=100		16		dona
	(1 dona uchun xarajat)	Tuynukni kuchaytirish Tk1		56,28	
1	GOST8509-93	L40x4 L=3180	4	7,7	30,8
2	GOST5781-82*	Ф12AIII L=3180	2	2,82	5,64
3	GOST5781-82*	Ф6AI L=850	12	0,19	2,28
4	GOST19903-74	-4x100x250	12	0,79	9,48
5	GOST19903-74	-4x80x150	8	0,38	3,04
6	GOST19903-74	-4x100x400	4	1,26	5,04
	Dyubel ankerniy metallicheskiy Ф10 L=100		16		dona
	(1 dona uchun xarajat)	Tuynukni kuchaytirish Tk2		66,65	
1	GOST8509-93	L40x4 L=3180	4	7,7	30,8
2	GOST5781-82*	Ф12AIII L=3180	2	2,82	5,64
3	GOST5781-82*	Ф6AI L=850	12	0,19	2,28
4	GOST19903-74	-4x100x250	15	0,79	9,48
5	GOST19903-74	-4x80x150	8	0,38	1,52
6	GOST19903-74	-4x100x400	4	1,26	5,04

Devor, pardadevor va tuynuklarni kuchaytirish elementlarining xarajatlar jadvali (davomi)

belgi	belgilash	nomi	soni	1dona og'irligi, kg	eslatma
10	GOST8509-93	L40x4 L=1400	2	3,39	6,78
11	GOST8509-93	L40x4 L=250	2	0,61	1,22
	Dyubel ankerniy metallicheskiy Ф10 L=100		16		dona
	(1 dona uchun xarajat)	Tuynukni kuchaytirish Tk3		58,52	
1	GOST8509-93	L40x4 L=3180	4	7,7	30,8
2	GOST5781-82*	Ф12AIII L=3180	2	2,82	5,64
3	GOST5781-82*	Ф6AI L=850	12	0,19	2,28
8	GOST19903-74	-4x100x170	14	0,53	7,42
5	GOST19903-74	-4x80x150	8	0,38	3,04
9	GOST19903-74	-4x100x300	4	0,94	3,76
12	GOST8509-93	L40x4 L=900	2	2,18	4,36
11	GOST8509-93	L40x4 L=250	2	0,61	1,22
	Dyubel ankerniy metallicheskiy Ф10 L=100		16		dona
	(1 dona uchun xarajat)	Tuynukni kuchaytirish Tk4		57,54	
1	GOST8509-93	L40x4 L=3180	4	7,7	30,8
2	GOST5781-82*	Ф12AIII L=3180	2	2,82	5,64
3	GOST5781-82*	Ф6AI L=850	12	0,19	2,28
8	GOST19903-74	-4x100x170	14	0,53	7,42
5	GOST19903-74	-4x80x150	8	0,38	3,04
9	GOST19903-74	-4x100x300	4	0,94	3,76
13	GOST8509-93	L40x4 L=700	2	1,69	3,38
11	GOST8509-93	L40x4 L=250	2	0,61	1,22
	Dyubel ankerniy metallicheskiy Ф10 L=100		16		dona
	(1 dona uchun xarajat)	Tuynukni kuchaytirish Tk5		61,95	
1	GOST8509-93	L40x4 L=3180	4	7,7	30,8

o'zg.	soni	varaq	xuj.№	imzo	sana
LBM		To'raboyev			
bajardi		Isomiddinov A.			

Shifr: MQ-

Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish

oshxona, kutubxona va faollar zali

bosqich	varaq	varaqlar
IL	23	39

Devor, pardadevor va tuynuklarni kuchaytirish elementlarining xarajatlar jadvali davomi, tugadi)

"Andijon Universal Proyekt" MChJ

Взам.инв.N | Подпись,дата | Инв.Nподл.

Devor, pardadevor va tuynuklarni kuchaytirish elementlarining xarajatlar jadvali (davomi)

belgi	belgilash	nomi	soni	1dona og'irligi, kg	eslatma
2	GOST5781-82*	Ф12AIII L=3180	2	2,82	5,64
3	GOST5781-82*	Ф6AI L=850	12	0,19	2,28
8	GOST19903-74	-4x100x170	15	0,53	7,95
5	GOST19903-74	-4x80x150	8	0,38	3,04
9	GOST19903-74	-4x100x300	4	0,94	3,76
14	GOST8509-93	L40x4 L=1500	2	3,63	7,26
11	GOST8509-93	L40x4 L=250	2	0,61	1,22
	Dyubel ankerniy metallicheskiy Ф10 L=100		16		dona
	(1 dona uchun xarajat)	Tuynukni kuchaytirish Tk7		69,7	
1*	GOST8509-93	L40x4 L=4180	4	10,12	40,48
2*	GOST5781-82*	Ф12AIII L=4180	2	3,71	7,42
3	GOST5781-82*	Ф6AI L=850	14	0,19	2,66
4	GOST19903-74	-4x100x250	14	0,79	11,06
5	GOST19903-74	-4x80x150	8	0,38	3,04
6	GOST19903-74	-4x100x400	4	1,26	5,04
	Dyubel ankerniy metallicheskiy Ф10 L=100		16		dona
	(1 dona uchun xarajat)	Tuynukni kuchaytirish Tk9		72,93	
1	GOST8509-93	L40x4 L=4180	4	10,12	40,48
2	GOST5781-82*	Ф12AIII L=4180	2	3,71	7,42
3	GOST5781-82*	Ф6AI L=850	12	0,19	2,28
8	GOST19903-74	-4x100x170	15	0,53	7,95
5	GOST19903-74	-4x80x150	8	0,38	3,04
9	GOST19903-74	-4x100x300	4	0,94	3,76
14	GOST8509-93	L40x4 L=1400	2	3,39	6,78
11	GOST8509-93	L40x4 L=250	2	0,61	1,22
	Dyubel ankerniy metallicheskiy Ф10 L=100		16		dona

Devor, pardadevor va tuynuklarni kuchaytirish elementlarining xarajatlar jadvali (tugadi)

belgi	belgilash	nomi	soni	1dona og'irligi, kg	eslatma
	(1 dona uchun xarajat)	Tuynukni kuchaytirish Tk10		77,65	
1	GOST8509-93	L40x4 L=4180	4	10,12	40,48
2	GOST5781-82*	Ф12AIII L=4180	2	3,71	7,42
3	GOST5781-82*	Ф6AI L=850	14	0,19	2,66
4	GOST19903-74	-4x100x250	17	0,79	13,43
5	GOST19903-74	-4x80x150	8	0,38	3,04
6	GOST19903-74	-4x100x400	4	1,26	5,04
10	GOST8509-93	L40x4 L=900	2	2,18	4,36
11	GOST8509-93	L40x4 L=250	2	0,61	1,22
	Dyubel ankerniy metallicheskiy Ф10 L=100		16		dona

o'zg.	soni	varaq	xuj.№	imzo	sana	Shifr: MQ-		
						Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish		
LBM		To'raboyev				oshxona, kutubxona va faollar zali	bosqich IL	varaq 24 / varaqlar 39
bajardi		Isomiddinov A.				Devor, pardadevor va tuynuklarni kuchaytirish elementlarining xarajatlar jadvali davomi, tugadi)	"Andijon Universal Proyekt" MChJ	

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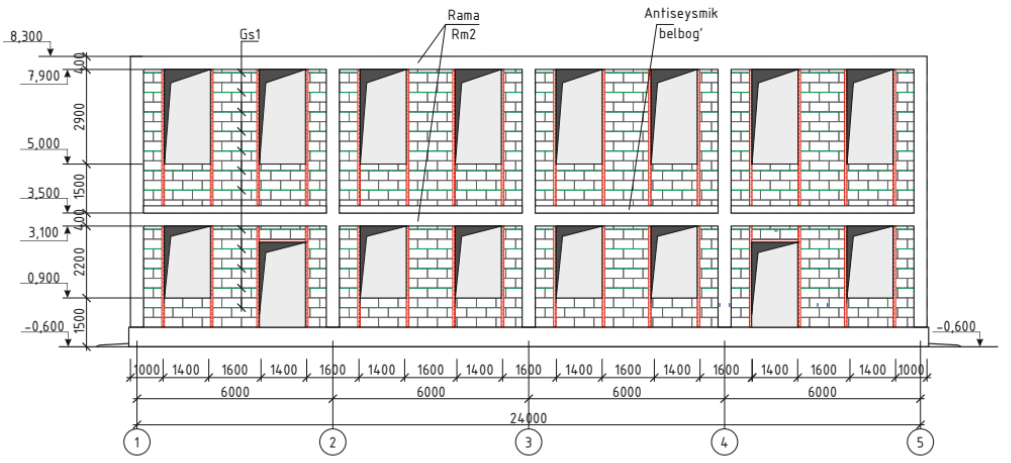
A o'qda 1-5 o'qlari bo'ylab devor yoyilmasi M1:100

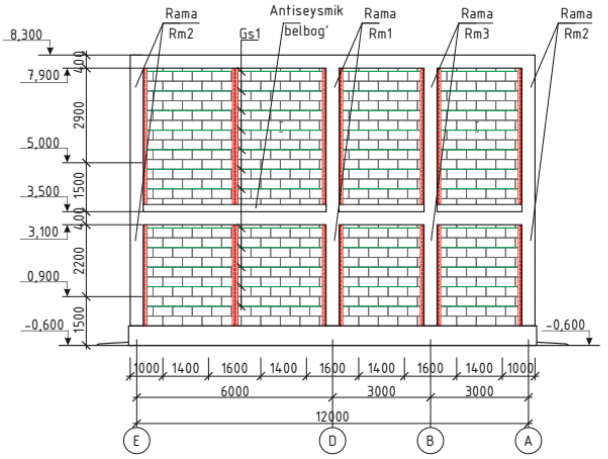


1. 1-o'qda E-A o'qlari bo'ylab devor yoyilmasi
2. 7-o'qda A-E o'qlari bo'ylab devor yoyilmasi
3. E o'qda 7-1 o'qlari bo'ylab devor yoyilmasi AQ- varaqqa qarang.
4. Ushbu varaq AQ- , AQ- varaqlar bilan o'qiladi.

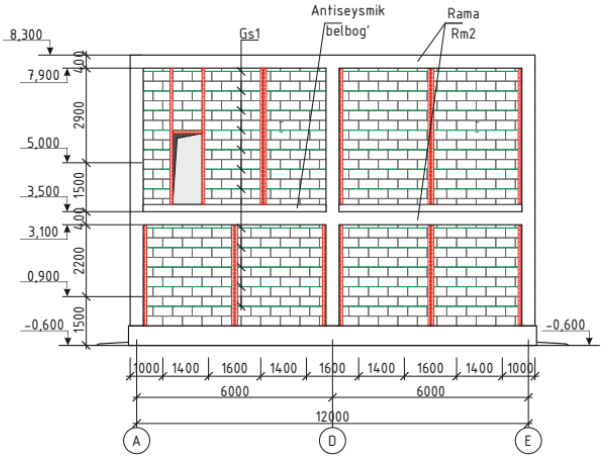
o'zg.	soni	varaq	xuj.№	imzo	sana	Shifr: MQ-		
						Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish		
LBM		To'raboyev				oshxona, kutubxona va faollar zali	bosqich IL	varaq 25 / varaqlar 39
bajardi		Isomiddinov A.				A o'qda 1-5 o'qlari bo'ylab devor yoyilmasi	"Andijon Universal Proyekt" MChJ	

Взам.инв.N | Подпись,дата | Инв.Nподл.

1-o'qda D-A o'qlari bo'ylab devor yoyilmasi M1:100



5-o'qda A-D o'qlari bo'ylab devor yoyilmasi M1:100

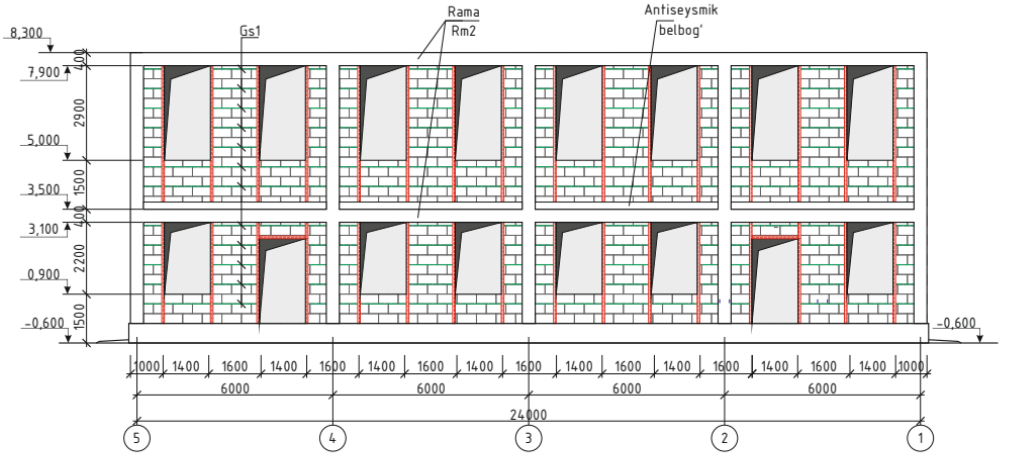


1. A o'qda 1-5 o'qlari bo'ylab devor yoyilmasi MQ- varaqqa qarang.
2. E o'qda 5-1 o'qlari bo'ylab devor yoyilmasi MQ- varaqqa qarang.
3. Ushbu varaq MQ- , MQ- varaqlar bilan o'qiladi.

						Shifr:			MQ-
o'zg.	soni	varaq	xuj.№	imzo	sana	Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish			
LBM		To'raboyev				oshxona, kutubxona va faollar zali	bosqich	varaq	varaqlar
bajardi		Isomiddinov A.					IL	26	39
						1-o'qda E-A o'qlari bo'ylab, 5-o'qda A-E o'qlari bo'ylab devor yoyilmalari	"Andijon Universal Proyekt" MChJ		

Взам.инв.N
Подпись,дата
Инв.Nподл.

E o'qda 5-1 o'qlari bo'ylab devor yoyilmasi M1:100



1. 1-o'qda E-A o'qlari bo'ylab devor yoyilmasi
2. 7-o'qda A-E o'qlari bo'ylab devor yoyilmasi
3. E o'qda 7-1 o'qlari bo'ylab devor yoyilmasi AQ- varaqqa qarang.
4. Ushbu varaq AQ- , AQ- varaqlar bilan o'qiladi.

						Shifr:			MQ-
o'zg.	soni	varaq	xuj.№	imzo	sana	Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish			
LBM		To'raboyev				oshxona, kutubxona va faollar zali	bosqich	varaq	varaqlar
bajardi		Isomiddinov A.					IL	27	39
						E-o'qda 5-1 o'qlari bo'ylab devor yoyilmasi	"Andijon Universal Proyekt" MChJ		

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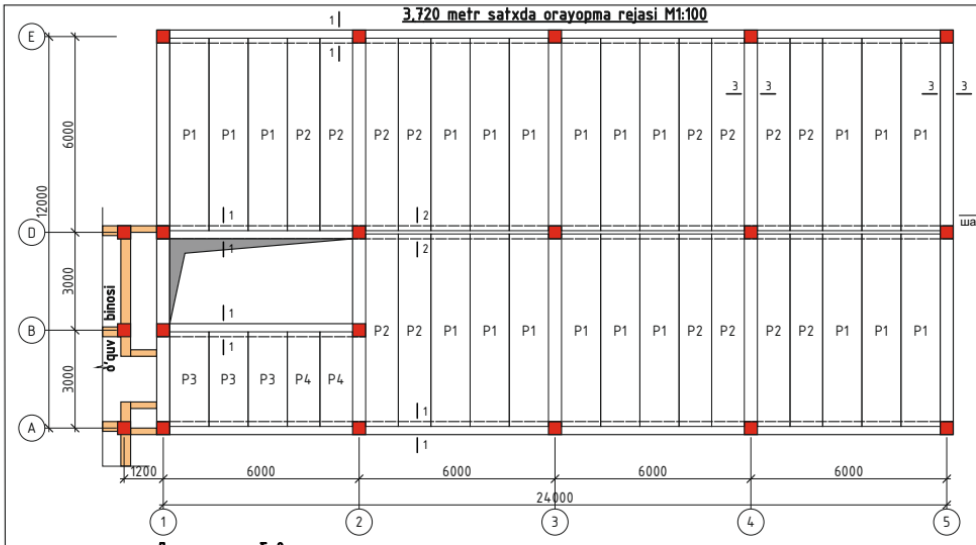
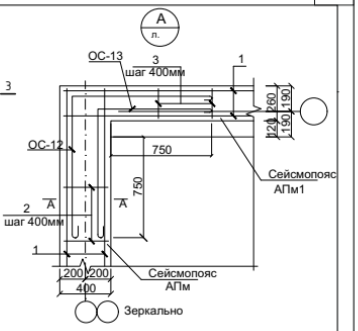
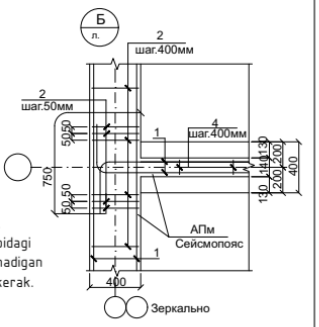
Инв.Nподл.

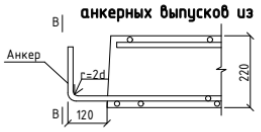
3.720 metr satxda orayopma rejasi M1:100



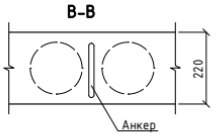




Детали отгибов анкерных выпусков из плит



В-В



1. Tugunlar 2.140-5s V1, 2.260-3s seriyasiga muvofiq amalga oshiriladi.
2. Metall elementlarning ulanishi RSTUz865-98 ga muvofiq E42 tipidagi elektrodlar bilan payvandlash orqali amalga oshiriladi. Payvandlanadigan choklarning balandligi elementlarning qalinligidan kam bo'lmasligi kerak.
3. Birlashtiruvchi metall qismlar va konstruktsiyalar PF-020 GOST18.186-79 ga muvofiq 2 marta emal bo'yog'i bilan bo'yalsin.

Orayopma rejasining xarajatlar jadvali

belgi	belgilash	nomi	soni	1dona og'irligi, kg	eslatma
P1	УТР 46,2-95,В1,	1ПК 59.12-8AIII-C9	21		dona
P2	УТР 46,2-95,В1,	1ПК 5910-8AIII-C9	14		dona
P3	1.141.1-29с в.3	1ПК 29.12-8А-III-С9	3		dona
P4	1.141.1-29с в.3	1ПК 29.10-8А-III-С9	2		dona

o'zg.	soni	varaq	xuj.№	imzo	sana
LBM		To'raboyev			
bajardi		Isomiddinov A.			

Shifr: AQ-

Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish

oshxona, kutubxona va faollar zali

bosqich	varaq	varaqlar
IL	28	39

3,720 metr satxda orayopma rejasi va xarajatlari jadvali

"Andijon Universal Proyekt" MChJ

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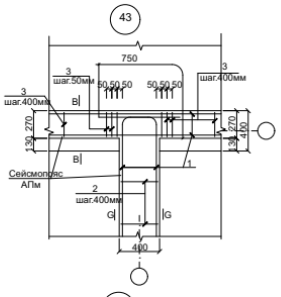
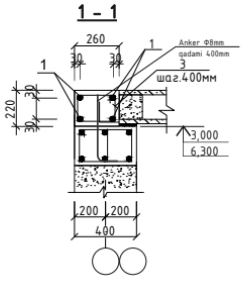
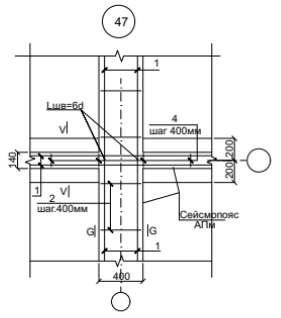


1 - 1

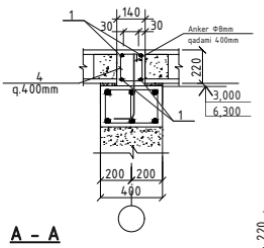


Zilzilaga qarshi belbog' uchun xarajatlar jadvali

belgi	belgilash	nomi	soni	1dona og'irligi, kg	eslatma
				553,9kg	
1	GOST 5781-82*	Φ12AIII L=umumiy	516	0,888	metr
2	GOST 5781-82*	Φ6AI L=1240	151	0,275	dona
3	GOST 5781-82*	Φ6AI L=1000	151	0,222	dona
4	GOST 5781-82*	Φ6AI L=180	46	0,04	dona
Oc1	GOST 5781-82*	Φ10AI L=2360	8	1,46	dona
Oc2	GOST 5781-82*	Φ10AI L=1820	8	1,12	dona
		Beton	9,27		m^3



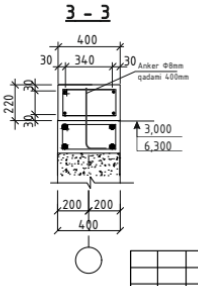
2 - 2



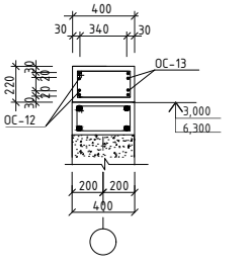
Detallar ro'yxati

Поз.	Эскиз	Поз.	Эскиз
2	180, 100, 340	ОС-12	1105, 1105, 36, 36
3	180, 100, 220	ОС-13	775, 775, 36, 36
4	180		

3 - 3



А - А



o'zg.	soni	varaq	xuj.№	imzo	sana
LBM		To'raboyev			
bajardi		Isomiddinov A.			

Shifr: AQ-

Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish

oshxona, kutubxona va faollar zali

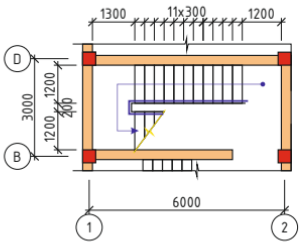
bosqich	varaq	varaqlar
IL	29	39

Zilzilaga qarshi belbog' tugunlari va xarajatlari jadvali

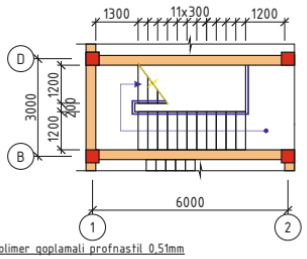
"Andijon Universal Proyekt" MChJ

Взам.инв.N | Подпись,дата | Инв.Nподл.

1-qavat zina rejasi



2-qavat zina rejasi

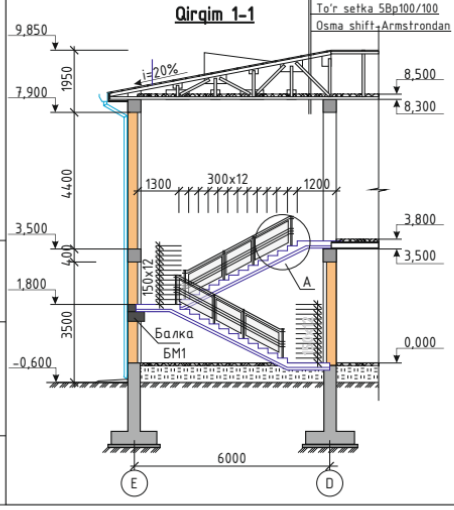


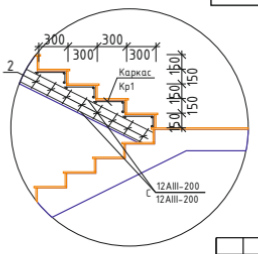
Zina elementlarining xarajat jadvali

belgi	belgilash	nomi	soni	og'irligi kg	eslatma
	(1dona uchun xarajat)	Zina	1		dona
P1	Zanglamas temirdan	Panjara P1	10,0		m
Bm1	Ushbu varaq	Balka monolitnaya	1		dona
S1	GOST 5781-82*	Setka 12/12/200/200 (2qavat)	12,0	17,76	m2
Tk1	Ushbu varaq	To'g'ri karkas Tk1	24		dona
		B15 sinfli beton	3,84		m3
		Aglomerat plitka	22,0		m2
	(1dona uchun xarajat)	Балка монолитная БМ1		35,48	
1	GOST 5781-82*	Ф16 AIII L=3100	6	4,90	dona
2	GOST 5781-82*	Ф6 AI L=460	32	0,1	dona
3	GOST 5781-82*	Ф6 AI L=270	48	0,06	dona
		B15 sinfli beton	0,4		m3
	(1dona uchun xarajat)	To'g'ri karkas Tk1			3,888kg
7	GOST 5781-82*	Ф12 AIII L=1200	3	1,07	dona
8	GOST 5781-82*	Ф6 AI L=330	6	0,073	dona
6	GOST 5781-82*	Ф6 AI L=180	6	0,04	dona

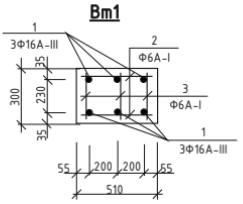
Polimer qoplamali profnastil 0,51mm
Metall obreshetka 40x30x2 qadam 400mm
Metall ferma qadam 1500mm
Gidro himoya-1qavat polipropilen matodan
Issiqlikdan himoya qatlami-mineral tolali
paxta plitalar G=160kgm3-100mm
Gidro himoya-1qavat polipropilen matodan
To'r setka 5Вр100/100
Osma shift+Armstrondan

Qirqim 1-1

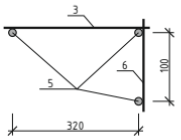




Bm1



To'g'ri karkas Tk1



o'zg.	soni	varaq	xuj.№	imzo	sana
LBM		To'raboyev			
bajardi		Isomiddinov A.			

Shifr: MQ-

Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish

oshxona, kutubxona va faollar zali

bosqich	varaq	varaqlar
IL	30	39

1,2,3,4-qavat zina rejalari. 1-1 qirqim. A tugun. Bm1. Xarajatlar jadvali

"Andijon Universal Proyekt" MChJ

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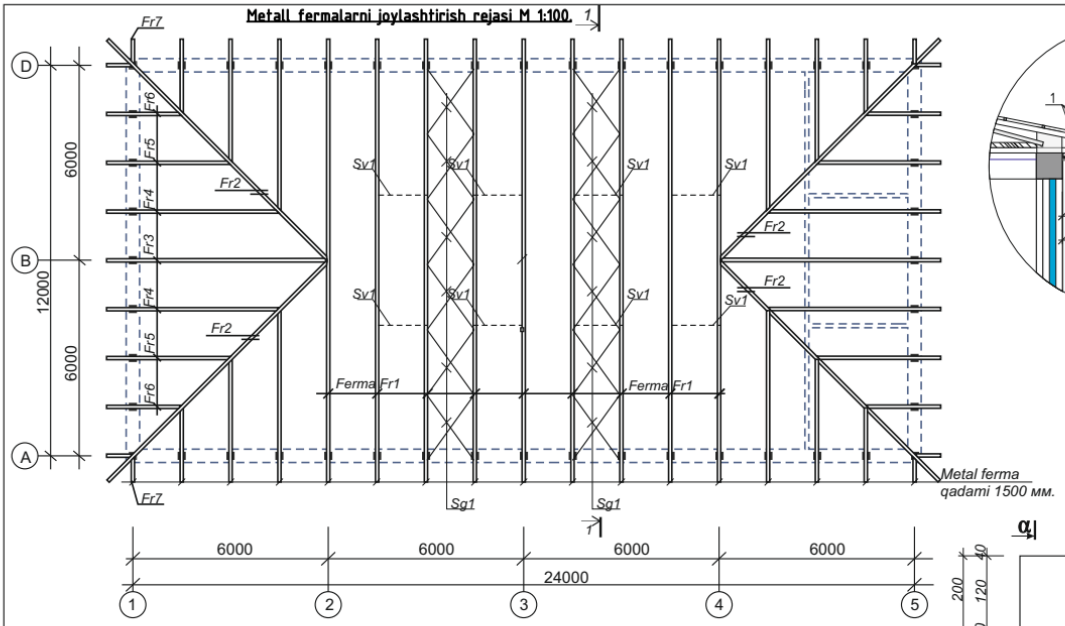
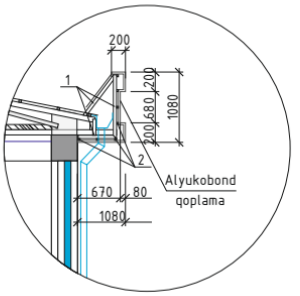
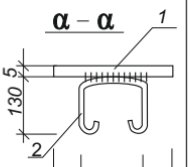
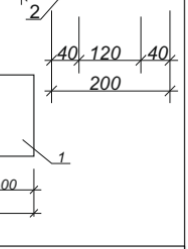
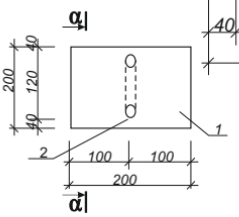
Metall fermalarni joylashtirish rejasi M 1:100.











Asosiy fasad va karniz qismini alyukobond bilan qoplash uchun xarajat jadvali

belgi	belgilash	nomi	soni	og'irligi kg	eslatma
		Karniz			
4	GOST 30245-2003	▢ 40x40x1,5 L=2650	52	4,72	245,4
5	GOST 30245-2003	▢ 40x40x1,5 L=umumiy	544,6	1,78	969,4
		Alyukobond qoplama	200,1		m^2

o'zg.	soni	varaq	xuj.№	imzo	sana
LBM		To'raboyev			
bajardi		Isomiddinov A.			

Shifr: MQ-

Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish

oshxona, kutubxona va faollar zali

bosqich	varaq	varaqlar
IL	31	39

Metall fermalarni joylashtirish rejasi. Qotiruvchi qism

"Andijon Universal Proyekt" MChJ

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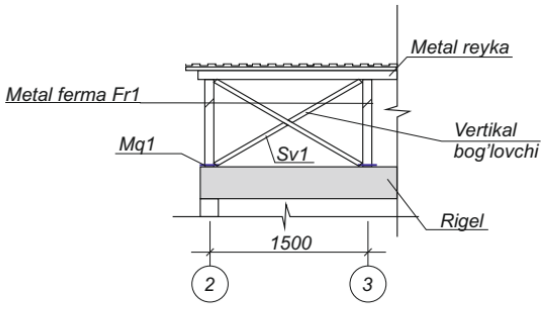
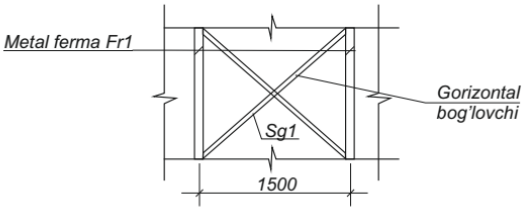
Tom elementlarining xarajatlar jadvali

№	Belgilari	Nomlanishi	Soni	Og'irligi kg	Eslatma
1	2	3	4	5	6
	- MQ varoqda	Metall ferma - F1	9	274,5	dona
	- MQ varoqda	Metall ferma - F2	4	231,5	dona
	- MQ varoqda	Metall ferma - F3	2	166,5	dona
	- MQ varoqda	Metall ferma - F4	8	128,0	dona
	- MQ varoqda	Metall ferma - F5	8	89,6	dona
	- MQ varoqda	Metall ferma - F6	8	56,7	dona
	- MQ varoqda	Metall ferma - F7	8	17,6	dona
Sv1	- GOST 8639-82	Ver. bog'. 40x40x3,0mm L=2200	16	7,26	116,1
Sg1	- GOST 8639-82	Gor. bog'. 40x40x3,0mm L=2500	24	8,25	198,0
	- GOST 8645-68	Metal profil reyka 40x40x2,0mm	614,4	1431,5	p/m
Mq1	- MQ varoqda	Maxkamlovchi qism - MQ1	48	2,04	dona
		Водосточный лоток из оцинкованной кровельного стали	52,8		р/м
		Водосточная труба Ф100 L=общ	58,0		р/м
		Maxkamlovchi qism - Mq1		2,04	kg
1	GOST 19903-74*	-- 200x5 L=200	1	1,57	dona
2	GOST 5781-82*	Ф16 A-I L=300	1	0,474	dona
		Конек упрощенный	50,4		р/м
		Снегодержатель	72,0		р/м
		Panjara to'siq Pt1		411,74	
15	GOST5781-82*	Ф14 AI L=1700	73	2,06	dona
16	GOST5781-82*	Ф14 AI L=umumiy	216	1,21	261,36

Vertikal bog'lovchi Sv1.



Gorizontal bog'lovchi Sg1.



1. Metall elementlarini mahkamlash RSTUz865-98 bo'yicha E42 tipidagi elektrodlar bilan payvandlash yo'li bilan amalga oshiriladi. Payvandlanadigan choklarning qalinligi elementlarning qalinligidan kam bo'lmasligi kerak.
2. Metall konstruktsiyalarni zanglashga qarshi bo'yoq bilan himoyalash kerak.
3. Tunikafon qoplama uchun 40x25x1.7 mm li metal profildan 771,12 kg karkas qilingan.

o'zg.	soni	varaq	xuj.№	imzo	sana	Shifr: MQ-		
						Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish		
LBM		To'raboyev				oshxona, kutubxona va faollar zali	bosqich IL	varaq 32 / varaqlar 39
bajardi		Isomiddinov A.				Rama Rm1. 1,2 tugunlar. 1-1, 2-2, 3-3, 4-4, A-A, B-B kesimlar	"Andijon Universal Proyekt" MChJ	

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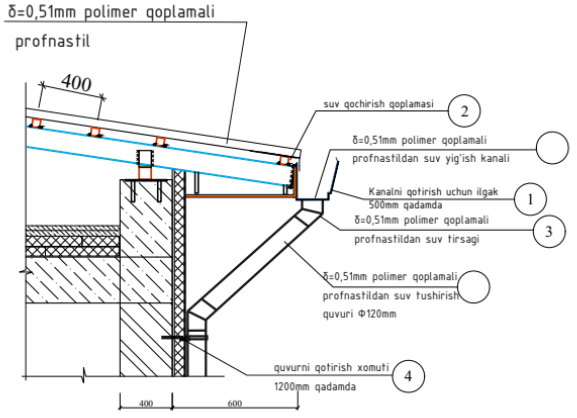
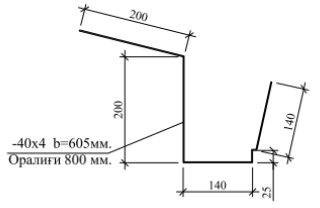
Tugun "1"

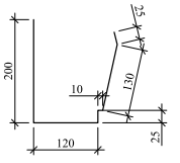


Элементы по кровлям

Поз. 1 Лотокни қотириш илгаги

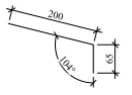


Поз. 2 Галванизли пўлатдан сув лотоги b=510мм. (66,8 метр)



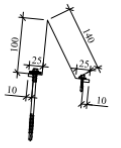
Икки томонлама полимер копламали металл туника қалинлиги 0,7мм. (Элементнинг бир-бирига кийғизилиши 50мм.)

Поз. 3 Сув қочириш қопламаси b=265мм.



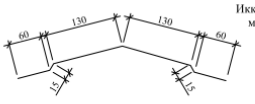
Икки томонлама полимер копламали металл туника қалинлиги 0,7мм. (Элементнинг бир-бирига кийғизилиши 50мм.)

Поз. 8 Қор ушлагичи b=310мм.



Икки томонлама полимер копламали металл туника қалинлиги 0,6мм. Детал узунлиги 3.0 м

tom cho'qqisi qoplamasi (оцинкованный конёк)



δ=0,51mm polimer qoplamali profnastildan tom cho'qqisi qoplamasi (elementlarning bir-biriga kiygizilishi 50mm)

Suv yig'ish kanali elementlari uchun xarajatlar jadvali

№	nomi	Nomlanishi	soni	hajmi birlikda	izoh
1	ishlab chiqaruvchi	lotokni qotirish ilgagi	157		dona
2	ishlab chiqaruvchi	Suv qochirish qoplamasi qalinligi-0.6mm eni-265mm	78,4		m
3	ishlab chiqaruvchi	δ=0,51mm polimer qoplamali profnastildan suv tirsagi	18		dona
4	ishlab chiqaruvchi	quvurni qotirish xomuti	42		dona

o'zg.	soni	varaq	xuj.№	imzo	sana	Shifr: MQ-		
						Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish		
LBM		To'raboyev				oshxona, kutubxona va faollar zali	bosqich IL	varaq 32a / varaqlar 39
bajardi		Isomiddinov A.				Suv yig'ish kanali element va tugunlari. Xarajatlar jadvali	"Andijon Universal Proyekt" MChJ	

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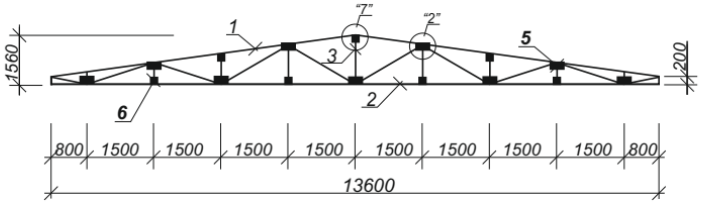
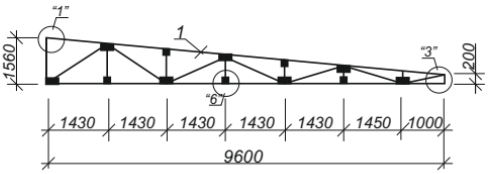
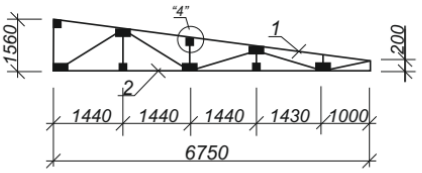
Ferma F1



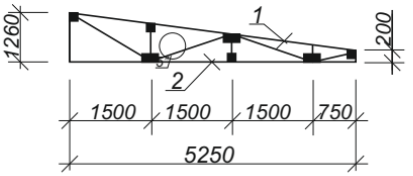
Ferma F2



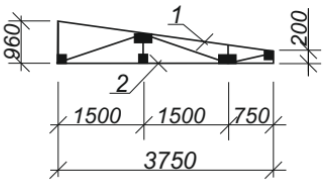
Ferma F3



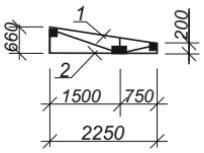
Ferma F4



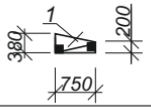
Ferma F5



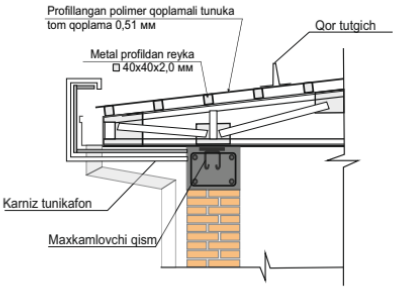
Ferma F6



Ferma F7



Tugun "A".



1. Barcha metal konstruksiya elementlari moyli bo'yoq bilan bo'yalsin (70,88 m²).
2. Payvandlanadigan barcha elementlar choklarni eng kichik qalinlikda olish kerak, lekin h = 8mm dan oshmasligi kerak.
3. Ushbu varaqqa qarang MQ-

						Shifr:			MQ-
						Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish			
o'zg.	soni	varaq	xuj.№	imzo	sana				
LBM		To'raboyev				oshxona, kutubxona va faollar zali	bosqich	varaq	varaqlar
							IL	33	39
bajardi		Isomiddinov A.				Metall fermalar F1,2,3,4,5,6,7	"Andijon Universal Proyekt" MChJ		

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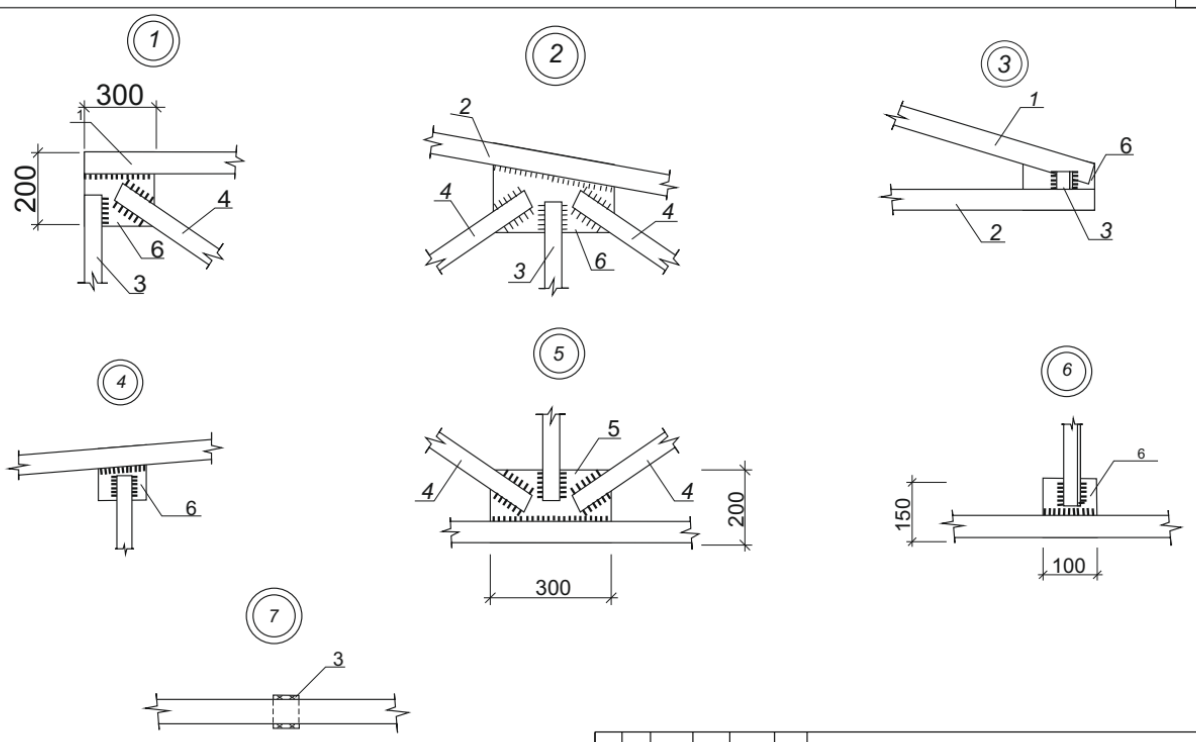

1. Metall elementlarini mahkamlash RSTUz865-98 bo'yicha E42 tipidagi elektrodlar bilan payvandlash yo'li bilan amalga oshiriladi. Payvandlanadigan choklarning qalinligi elementlarning qalinligidan kam bo'lmasligi kerak.

						Shifr:			MQ-
						Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish			
o'zg.	soni	varaq	xuj.№	imzo	sana				
LBM		To'raboyev				oshxona, kutubxona va faollar zali	bosqich	varaq	varaqlar
							IL	34	39
bajardi		Isomiddinov A.				Metall ferma tugunlari F1,2,3,4,5,6,7	"Andijon Universal Proyekt" MChJ		

Взам.инв.N
Подпись,дата
Инв.Nподл.

Metal ferma elementlarining xarajatlar jadvali

№	Belgilari	Nomlanishi	Soni	Og'irligi kg	Eslatma
1	2	3	4	5	6
		Metal ferma - F1		326,7	(1 dona uchun sarf)
1	GOST 8645-68	Yuqori belbog' □80x40x4 L=6950	2	47,4	dona
2	GOST 8645-68	Pastki belbog' □ 80x40x4 L=13600	1	92,7	dona
3	GOST 8645-68	Ustun □60x40x4,0 L=umumiy.	5,3	29,5	p/m
4	GOST 8645-68	Kashak □ 60x40x4,0 L=umumiy.	16,1	89,5	p/m
5	GOST 19903-74	Косынка -4x200 L=300	9	1,88	dona
6	GOST 19903-74	Косынка -4x100 L=150	7	0,47	dona
		Metal ferma - F2		235,3	(1 dona uchun sarf)
1	GOST 8645-68	Yuqori belbog' □80x40x4 L=9700	1	66,1	dona
2	GOST 8645-68	Pastki belbog' □ 80x40x4 L=9600	1	65,5	dona
3	GOST 8645-68	Ustun □60x40x4,0 L=umumiy.	5,6	31,1	p/m
4	GOST 8645-68	Kashak □ 60x40x4,0 L=umumiy.	10,3	57,2	p/m
5	GOST 19903-74	Косынка -4x200 L=300	7	1,88	dona
6	GOST 19903-74	Косынка -4x100 L=150	5	0,47	dona
		Metal ferma - F3		169,6	(1 dona uchun sarf)
1	GOST 8645-68	Yuqori belbog' □80x40x4 L=6850	1	46,7	dona
2	GOST 8645-68	Pastki belbog' □ 80x40x4 L=6750	1	46,0	dona
3	GOST 8645-68	Ustun □60x40x4,0 L=umumiy.	3,6	20,0	p/m
4	GOST 8645-68	Kashak □ 60x40x4,0 L=umumiy.	8,2	45,6	p/m
5	GOST 19903-74	Косынка -4x200 L=300	5	1,88	dona
6	GOST 19903-74	Косынка -4x100 L=150	4	0,47	dona
		Metal ferma - F4		130,4	(1 dona uchun sarf)
1	GOST 8645-68	Yuqori belbog' □80x40x4 L=5350	1	36,5	dona
2	GOST 8645-68	Pastki belbog' □ 80x40x4 L=5250	1	35,8	dona
3	GOST 8645-68	Ustun □60x40x4,0 L=umumiy.	2,7	15,0	p/m
4	GOST 8645-68	Kashak □ 60x40x4,0 L=umumiy.	6,4	35,6	p/m
5	GOST 19903-74	Косынка -4x200 L=300	3	1,88	dona
6	GOST 19903-74	Косынка -4x100 L=150	4	0,47	dona

Metal ferma elementlarining xarajatlar jadvali

№	Belgilari	Nomlanishi	Soni	Og'irligi kg	Eslatma
1	2	3	4	5	6
		Metal ferma - F5		91,3	(1 dona uchun sarf)
1	GOST 8645-68	Yuqori belbog' □80x40x4 L=3800	1	25,9	dona
2	GOST 8645-68	Pastki belbog' □ 80x40x4 L=3750	1	25,6	dona
3	GOST 8645-68	Ustun □60x40x4,0 L=umumiy.	1,5	8,3	p/m
4	GOST 8645-68	Kashak □ 60x40x4,0 L=umumiy.	4,5	25,0	p/m
5	GOST 19903-74	Косынка -4x200 L=300	3	1,88	dona
6	GOST 19903-74	Косынка -4x100 L=150	2	0,47	dona
		Metal ferma - F6		54,4	(1 dona uchun sarf)
1	GOST 8645-68	Yuqori belbog' □80x40x4 L=2300	1	15,7	dona
2	GOST 8645-68	Pastki belbog' □ 80x40x4 L=2250	1	15,3	dona
3	GOST 8645-68	Ustun □60x40x4,0 L=umumiy.	1,0	5,56	p/m
4	GOST 8645-68	Kashak □ 60x40x4,0 L=umumiy.	2,7	15,0	p/m
5	GOST 19903-74	Косынка -4x200 L=300	1	1,88	dona
6	GOST 19903-74	Косынка -4x100 L=150	2	0,47	dona
		Metal ferma - F7		18,0	(1 dona uchun sarf)
1	GOST 8645-68	Yuqori belbog' □ 80x40x4 L=800	1	5,45	dona
2	GOST 8645-68	Pastki belbog' □ 80x40x4 L=750	1	5,1	dona
3	GOST 8645-68	Ustun □60x40x4,0 L=umumiy.	0,18	1,0	p/m
4	GOST 8645-68	Kashak □ 60x40x4,0 L=umumiy.	0,75	4,7	p/m
5	GOST 19903-74	Косынка -4x200 L=300	1	1,88	dona
6	GOST 19903-74	Косынка -4x100 L=150	1	0,47	dona

1. Metall elementlarini mahkamlash RSTUz865-98 bo'yicha E42 tipidagi elektrodlar bilan payvandlash yo'li bilan amalga oshiriladi. Payvandlanadigan choklarning qalinligi elementlarning qalinligidan kam bo'lmasligi kerak.
2. Metall konstruktsiyalarni zanglashga qarshi bo'yoq bilan himoyalash kerak.

o'zg.	soni	varaq	xuj.№	imzo	sana
LBM		To'raboyev			
bajardi		Isomiddinov A.			

Shifr: MQ-

Andijon davlat pedagogik instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish

oshxona, kutubxona va faollar zali

bosqich	varaq	varaqlar
IL	31	35

Metall fermalarning xarajat jadvali

"Andijon Universal Proyekt" MChJ

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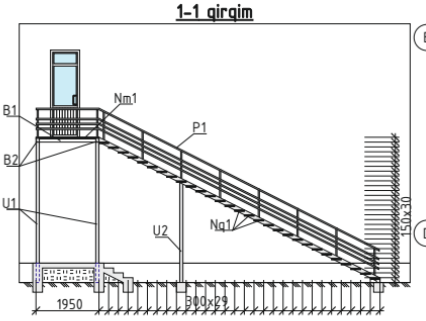
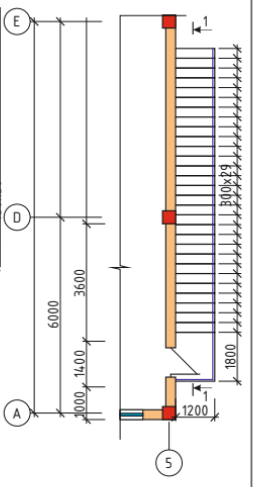
Temir narvon uchun xarajatlar jadvali

belgi	belgilash	nomi	soni	og'irligi kg	eslatma
Nq1	Ushbu varaq	Narvon qadami Nq1	29	9,21	dona
Nm1	Ushbu varaq	Narvon maydoni Nm1	1	68,34	dona
Mq1	Ushbu varaq	Maxkamlovchi qism Mq1	4	3,35	dona
U1	Ushbu varaq	Ustun U1	4	70,52	dona
U2	Ushbu varaq	Ustun U2	2	52,19	dona
K1	GOST12336-66	Kosour K1 ⌷ 125x90x6 L=umumiy	16,52	17,9	metr
B1	GOST12336-66	Balka B1 ⌷ 125x90x6 L=1950	2	34,91	dona
B2	GOST12336-66	Balka B2 ⌷ 125x90x6 L=1200	2	21,48	dona
P1	Ushbu varaq	Panjara P1	12,0	10,75	metr
		Beton sinfi V15	0,22		m^3
	(1dona uchun xarajat)	Narvon qadami Nq1			9,21
C1	GOST8509-86	L40x4 L=300	2	0,73	1,46
1	GOST5781-82*	Φ16 AIII L=980	5	1,55	7,75
	(1dona uchun xarajat)	Narvon maydoni Nm1			68,34
C1	GOST8509-86	L40x4 L=1950	2	4,72	9,44
1	GOST5781-82*	Φ16 AIII L=980	38	1,55	58,9
	(1dona uchun xarajat)	Maxkamlovchi qism Mq1			3,35
2	GOST19903-77*	-10x150 L=150	1	1,77	1,77
3	GOST5781-82*	Φ16 AIII L=250	4	0,395	1,58
	(1dona uchun xarajat)	Ustun U1			70,52
4	GOST12336-66	⌷ 100x100x5 L=4400	1	62,04	62,04
5	GOST19903-77*	-6x300 L=300	2	4,24	8,48
	(1dona uchun xarajat)	Ustun U2			52,19
6	GOST12336-66	⌷ 100x100x5 L=3100	1	43,71	43,71
5	GOST19903-77*	-6x300 L=300	2	4,24	8,48
	(1metr uchun xarajat)	Panjara P1			10,75
7	GOST12336-66	⌷ 40x40x3 L=900	1	3,02	3,02
8	GOST12336-66	⌷ 63x45x3 L=1000	1	4,5	4,5
9	GOST12336-66	⌷ 20x20x2 L=1000	3	1,075	3,23

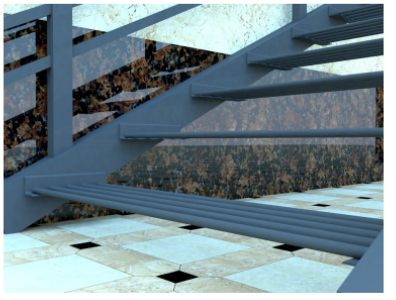
1-1 qirqim



Temir narvon N1



№1 bo'lak



o'zg.	soni	varaq	xuj.№	imzo	sana
LBM		To'raboyev			
bajardi		Isomiddinov A.			

Shifr: MQ-

Andijon davlat pedagogik instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish

oshxona, kutubxona va faollar zali

bosqich	varaq	varaqlar
IL	32	34

Temir narvon N1. 1-1 qirqim. №1 bo'lak

"Norma qurilish konsalting" MChJ

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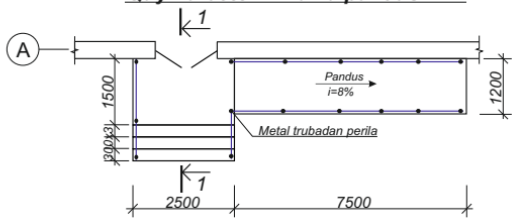
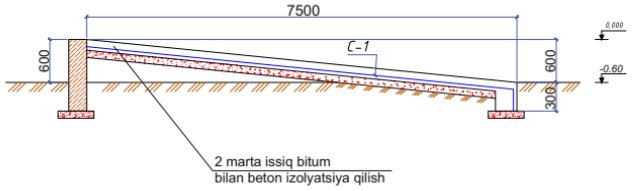
Quyma beton zina va pandus №1



Qirqim 2-2.



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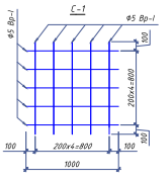
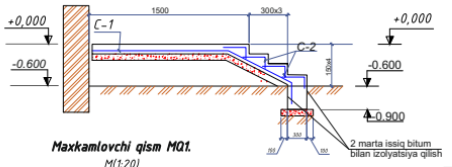
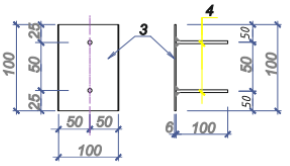


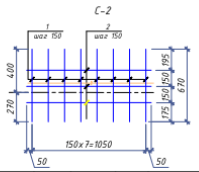


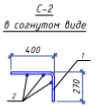
Maxkamlovchi qism MQ1.
M(1:20)



Quyma zinapoya va pandus elementlari tasnifi.

Poz.	Belgilanishi	Nomlanishi	Soni	Massa	Eslatma
	Jami	Pandus №1	2		dona
	Jami	Quyma zinapoya	3		dona
	(1 dona uchun sarf)	Pandus №1	1		dona
		Setka C-1	13.0	1.54	20.0kg
1	РсМУЗ 866-98	Ф5 Вр-I L=1000мм	5	0.1540	0.77
2	РсМУЗ 866-98	Ф5 Вр-I L=1000мм	5	0.1540	0.77
		Beton B15	1,8		m^3
	(1 dona uchun sarf)	Quyma zinapoya	1		dona
		Setka C-1	23.0	1.54	35.4kg
1	РсМУЗ 866-98	Ф5 Вр-I L=1000мм	5	0.1540	0.77
2	РсМУЗ 866-98	Ф5 Вр-I L=1000мм	5	0.1540	0.77
		Setka C-2	17.0	1.38	23,5kg
1	РсМУЗ 866-98	Ф5 Вр-I L=670мм	6	0.1540	0.92
2	РсМУЗ 866-98	Ф5 Вр-I L=1150мм	3	0.1540	0.46
		Beton B15	1,7		m^3
	Jami	Mahkamlovchi qism Mq1		22	
	(1 dona uchun sarf)	Mahkamlovchi qism MQ1		0,82	
3	GOST19903-74*	-- 100x6 L=100	1	0,47	dona
4	GOST5781-82*	Ф12 A-III L=400	1	0,35	dona
		Metal trubadan perila	24,5		п/м
	Zinalarni ust va yon qismni keramogranit bilan qoplash		24,0		m^2
	Pandus ustki qismni moyli bo'yoq bilan qoplash		9,0		m^2





o'zg.	soni	varaq	xuj.№	imzo	sana	Shifr: MQ-		
						Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish		
LBM		To'raboyev				oshxona, kutubxona va faollar zali	bosqich IL	varaq 36 / varaqlar 39
bajardi		Isomiddinov A.				Metall fermalarning xarajat jadvali	"Andijon Universal Proyekt" MChJ	

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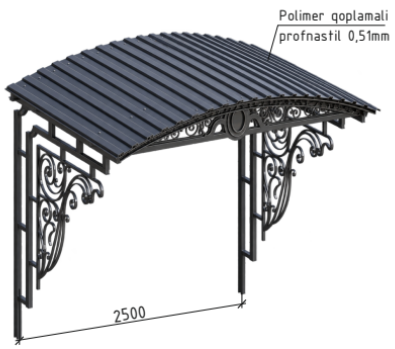
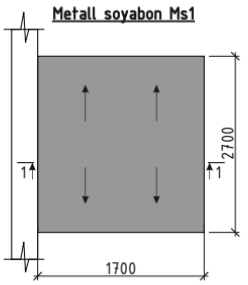
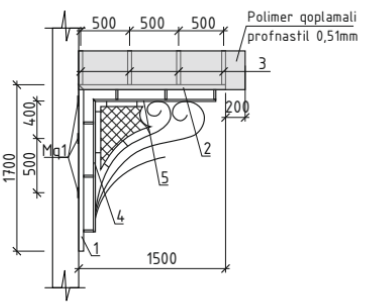
Metall soyabon Ms1





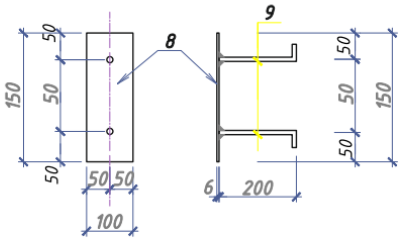
1-1 qirqim



Metal soyabon Ms1 xarajatlar jadvali

belgi	belgilash	nomi	soni	vazni kg	eslatma
		Metall soyabon Ms1	3	56,73	170,19
	(1dona uchun sarf)	Metall soyabon Ms1		56,73	
1	GOST30245-2003	▢ 50x50x2 L=1700	2	4,98	9,96
2	GOST30245-2003	▢ 50x50x2 L=1500	2	4,4	8,8
3	GOST32931-2015	▢ 20x20x2 L=2600	4	2,81	11,24
4	GOST32931-2015	▢ 20x20x2 L=1350	2	1,46	2,92
5	GOST32931-2015	▢ 20x20x2 L=1250	2	1,35	2,7
6	GOST32931-2015	▢ 20x20x2 L=100	12	0,108	1,3
7	GOST2591-2006	10x10 L=umumiy	13	0,785	10,21
		Mahkamlovchi qism Mq1	6	1,6	9,6
8	GOST19903-74	-6x100 L=150	1	0,71	0,71
9	GOST5781-82*	Ф12 A-I L=250	2	0,444	0,888
		Polimer qoplamali profnastil 0,51mm	4,75		m^2

Maxkamlovchi qism MQ1.



o'zg.	soni	varaq	xuj.№	imzo	sana	Shifr: MQ-		
						Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish		
LBM		To'raboyev				oshxona, kutubxona va faollar zali	bosqich IL	varaq 37 / varaqlar 39
bajardi		Isomiddinov A.				Metall soyabon Ms1. Xarajatlar jadvali. 1-1	"Andijon Universal Proyekt" MChJ	

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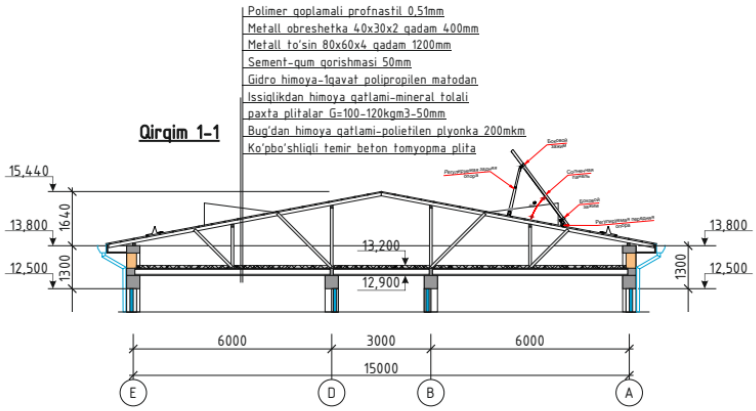
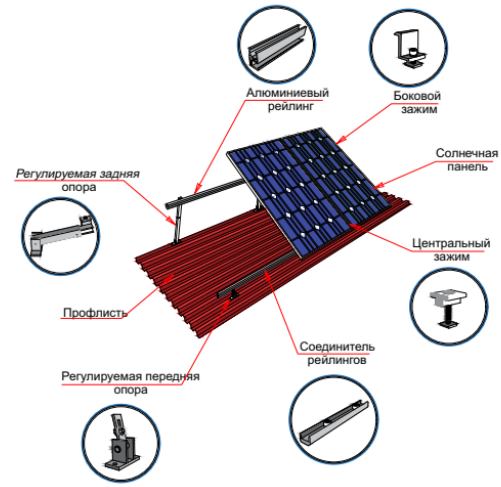
Qirqim 1-1



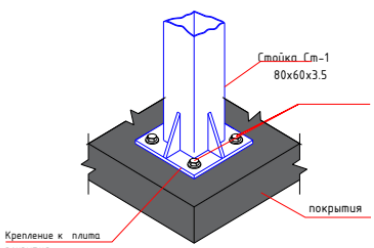


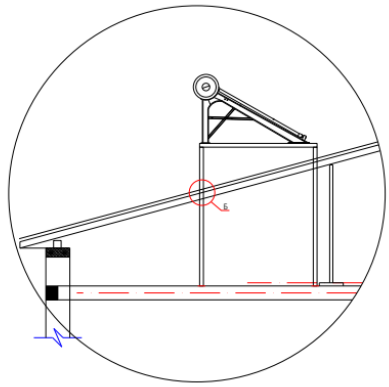
Birlashtiruvchi metall qismlar va konstruksiyalar PF-020 GOST 18.186-79 gruntovka va PF-115 markali emal bo'yoqlari bilan 2 marta bo'yang.

o'zg.	soni	varaq	xuj.№	imzo	sana	Shifr: MQ-		
						Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish		
LBM		To'raboyev				oshxona, kutubxona va faollar zali	bosqich IL	varaq 38 / varaqlar 39
bajardi		Isomiddinov A.				Quyosh panelini o'rnatish va maxkamlash elementlari	"Andijon Universal Proyekt" MChJ	

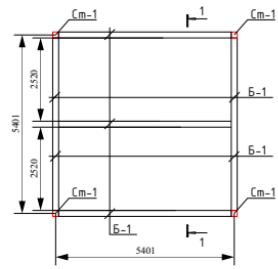
Взам.инв.N | Подпись,дата | Инв.Nподл.

Узел «А»

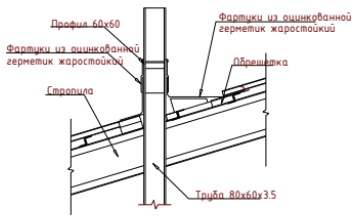




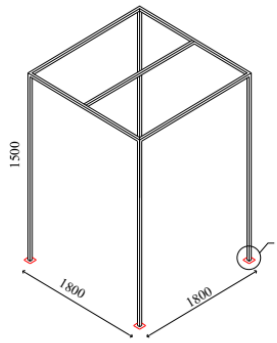
Солнечный водонагреватель для каркасный схема



Узел «Б»



Аксонометрические вид



Спецификация расхода материалов на солнечный водонагреватель для каркасный схема

Поз.	Обозначение	Наименование	Кол.	Масса ед.,кг.	Примечание
		Каркасный схема	4	83.14	332.56
Ст-1	ГОСТ 8545-80	Труба 80x60x3.5 L=1500	4	10.71	42.84
Б-1	ГОСТ 8545-80	Труба 60x40x3 L=1740	5	7.48	37.4
	ГОСТ 19903-74*	Лист 6x120x120	4	0.68	2.72
	.	Анкерный болт 10x112	4	0.046	0.18
	.	оцинкованной лист м2	0.9		

o'zg.	soni	varaq	xuj.№	imzo	sana	Shifr: MQ-		
						Andijon davlat pedagogika instituti Pedagogik ta'lim klasteri hududida umumta'lim maktabi qurish		
LBM		To'raboyev				oshxona, kutubxona va faollar zali	bosqich IL	varaq 39 / varaqlar 39
bajardi		Isomiddinov A.				Quyosh kollektorini o'rnatish va maxkamlash elementlari	"Andijon Universal Proyekt" MChJ	

Взам.инв.N | Подпись,дата | Инв.Nподл.