Governor's Office of the Capital City

INTEGRATED PROJECT MANAGEMENT OFFICE

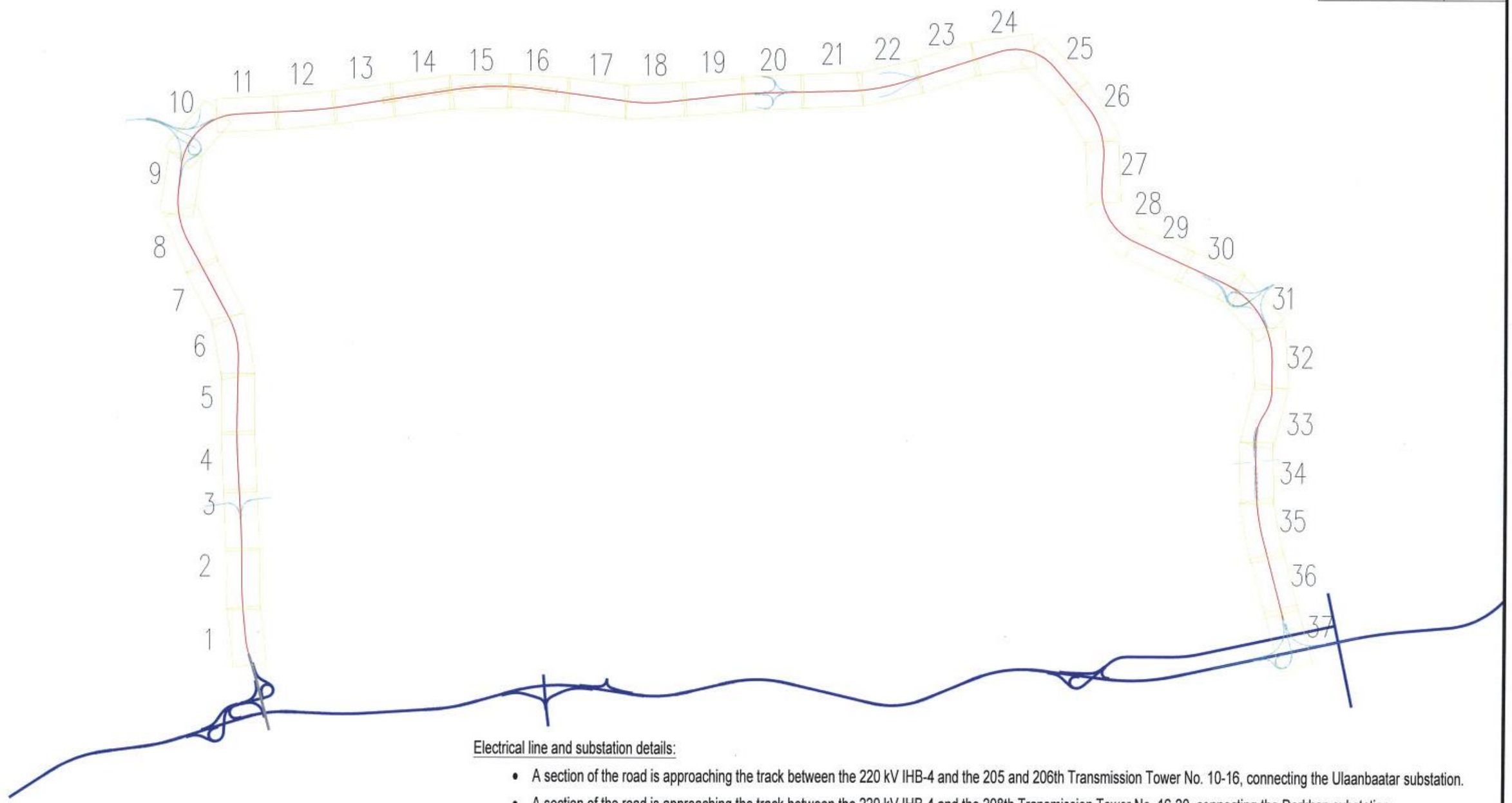
CSCEC AECOM Consultants Co., Ltd

FEASIBILITY STUDY & CONCEPT DESIGN

"FIRST RING ROAD" project

Drawing material "The existing road condition" Volume IV-I

Ulaanbaatar
2025



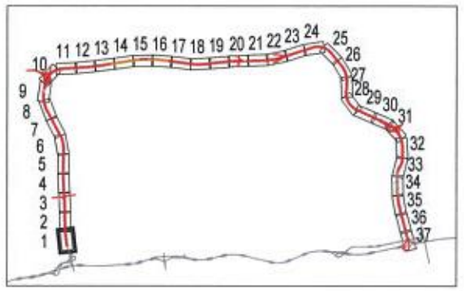
Electrical line and substation details:

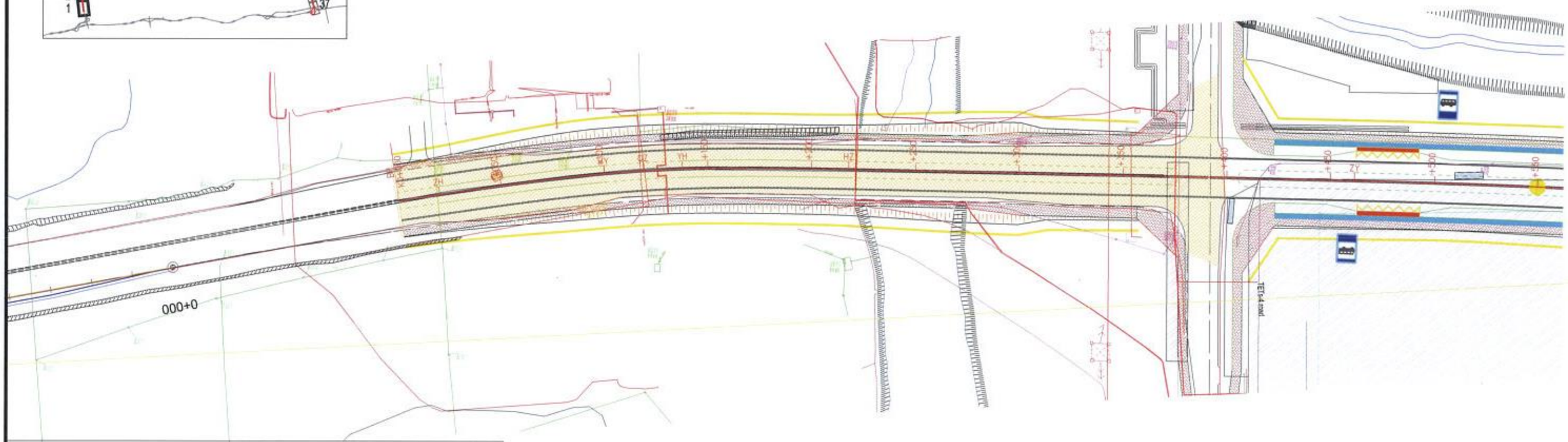
- A section of the road is approaching the track between the 220 kV IHB-4 and the 205 and 206th Transmission Tower No. 10-16, connecting the Ulaanbaatar substation.
- A section of the road is approaching the track between the 220 kV IHB-4 and the 208th Transmission Tower No. 16-20, connecting the Darkhan substation.
- 103, 104, 107, 108, 110, 125, 126, 133, 134, 135, 136, 137, 138, 149, 150 electric overhead lines of 110 кВ intersect the roadway.
- The Selbe substation of 110/35/10 kV is located 63m from the planned roadbed.

Communication line of 35 кВ-А,Б, Bayanzurh-А,Б, Gachuurt, Hugjil-А,Б , Jantsan-А,Б, Tugul-А,Б intersect the roadway.

- 93 substations and 119 lines of 6-10 kV intersect the roadway.
- 99 electrical overhead lines of 0.4 kV have crossed the roadway.

Position Thumbnail





List of buildings affected by the planned road K0+00 - K0+550

№	Building name	Unit of measure	Quantity
1	Light pole	piece	31
2	Building	m2	72.2
3	Voltage overhead line 6-10 кВ	m	288.5
4	Voltage overhead line 0.4 кВ	m	298.0
5	High voltage overhead line	m	276.0
6	110 kV overhead power line	m	53.0
7	Sewer line	m	583.0
8	Sewer well	piece	6
9	Thermal line	m	232
10	Communication line	m	570.0
11	Communication well	piece	13
12	Drainage line, well	m, piece	117.0; 1
13	Land of possession	m2	181656.4
14	Existing road	m2	10918.8

Identification sign

- Buildings
- The building under construction (барь.)
- Collapsed building (нур.)
- Excavated pits piled up dirt edge
- Nasip
- High voltage overhead line
- Overhead power line support
- Electrical substation (тр.)
- Low voltage overhead line
- Lighting pole
- Bridge
- Stone, reinforced fence
- Wooden fence
- Steel fence
- Fence
- Thermal line
- Thermal well
- Water lines
- Communication line
- Communication well
- A flood dam
- River
- Railway
- Waste disposal site
- Playground
- Ger area
- Sewer well
- Sewer line
- Water well
- Drainage line
- Green area
- The bike path
- Pedestrian path
- Traffic lane
- The slope
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- Land of ownership
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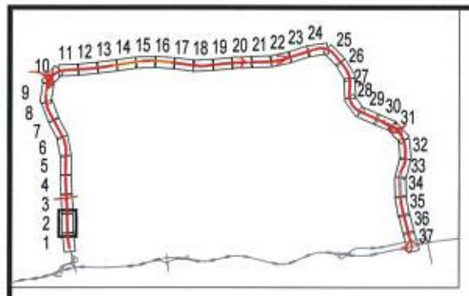
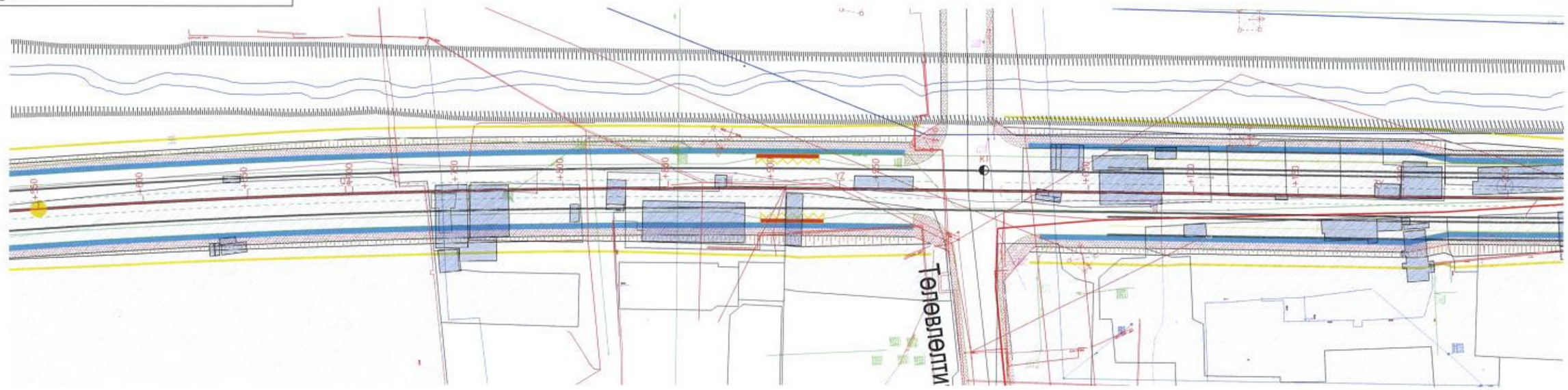
AVANTGARDE URAN
DESIGN & Engineering

The Feasibility Study and Concept Design of the 'First Ring Road' Project of Ulaanbaatar City

Stage	Technical Drawings	Project No	10-2024-2509	Des.Manager	Pang Wei		Scale	1:2000
A study of the current situation				Master Des.	CaoYonXiang		Page	ОБ-2
				Checked	L.Solongo			
				Designed	B.Nyamkhagva		Date	2025.06





	List of buildings affected by the planned road K 550 - K1+250		
№	Building name	Unit of measure	Quantity
1	Water lines	m	65.2
2	Building	m2	4947.6
3	Voltage overhead line 6-10 кВ	m	1656.0
4	Voltage overhead line 0.4 кВ	m	298.0
5	High voltage overhead line	m	276.0
6	110 kV overhead power line	m	235.1
7	Overhead power line support	piece	8
8	Sewer line	m	1262.0
9	Sewer well	piece	6
10	Thermal line	m	603.0
11	Thermal well	piece	3
12	Communication line	m	788.0
13	Communication well	piece	4
14	Drainage line	piece	30.5
15	Drainage line, well	m, piece	148; 1
16	A dam	m	200
17	Land of possession	m2	34736.4

Identification sign

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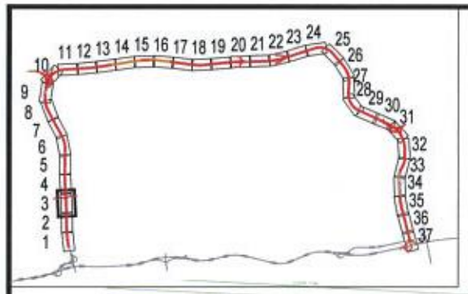
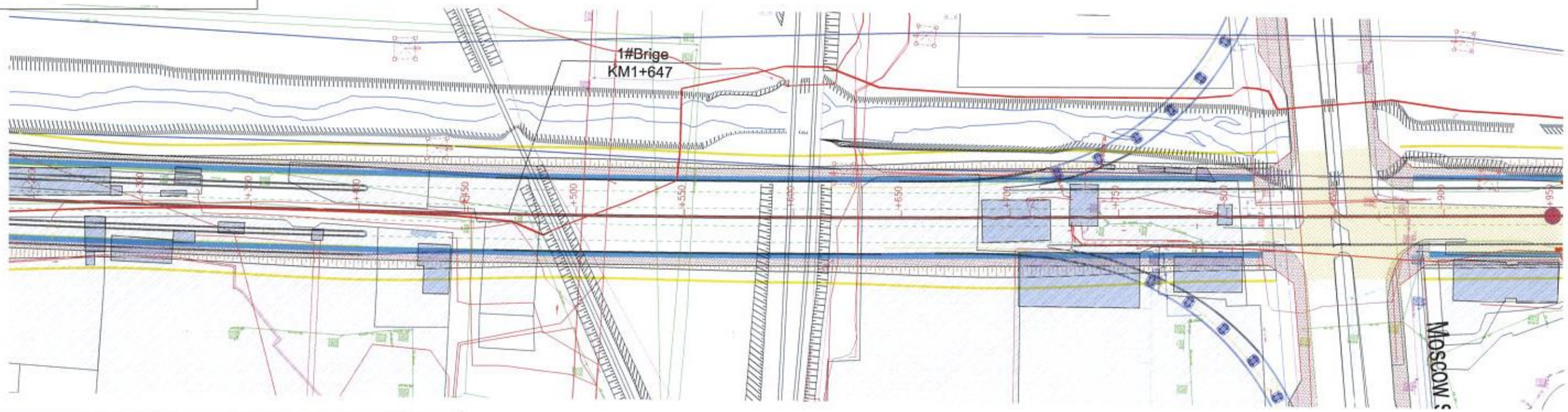
中国市政工程西北设计研究院有限公司 CSCEC AECOM CONSULTANTS CO., LTD	AVANTGARDE URAN DESIGN & Engineering	The Feasibility Study and Concept Design of the 'First Ring Road' Project of Ulaanbaatar City	Stage	Technical Drawings	Project No	10-2024-2509	Des.Manager	Pang Wei
			A study of the current situation				Master Des.	CaoYonXiang
							Checked	L.Solongo
							Designed	B.Nyamikhagva

Scale	1:2000
Page	ОБ-3
Date	2025.06





	List of buildings affected by the planned road K1+250 - K1+950		
№	Building name	Unit of measure	Quantity
1	Water line, well	m, piece	214.5; 5
2	Building	m2	5567.1
3	Voltage overhead line 6-10 кВ	m	1758.7
4	Voltage overhead line 0.4 кВ	m	0
5	High voltage overhead line	m	588.2
6	35 kV overhead power line	m	60.1
7	220 kV overhead power line	m	500.0
8	Overhead power line support	piece	3
9	Sewel line	m	867.3
10	Sewel well	piece	9
11	Thermal line	m	459.1
12	Thermal well	piece	1
13	Communication line	m	552.2
14	Communication well	piece	6
15	Drainage line, well	m, piece	15; 2
16	A dam	m	235
17	Land of possession	m2	93762.3
18	Existing road	m2	8686.5

Identification sign

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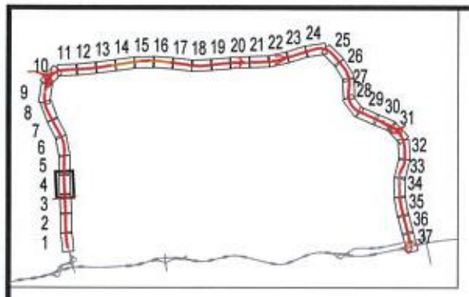
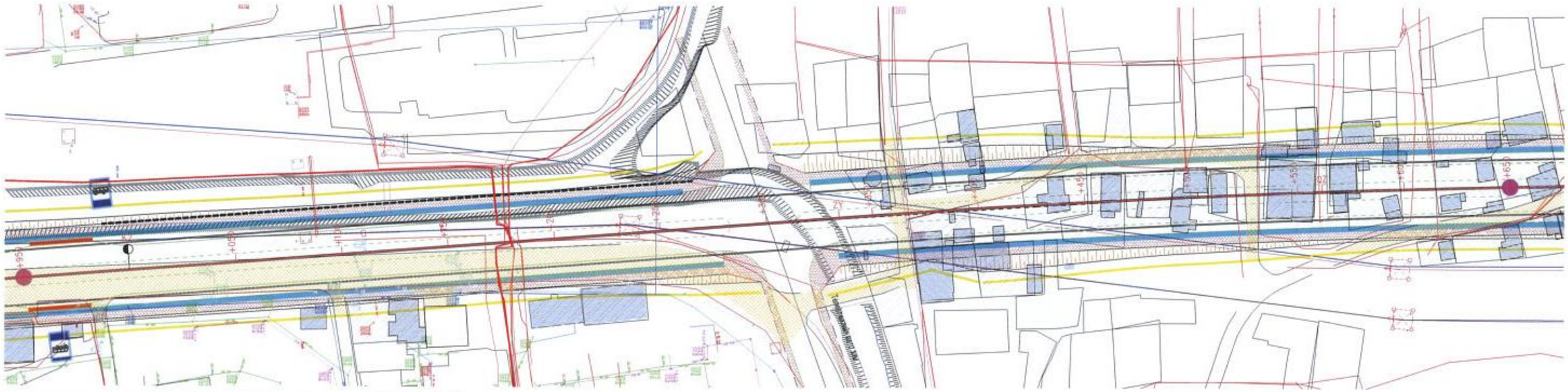
A study of the current situation				Master Des.	CaoYonXiang		Page	ОБ-4
				Checked	L.Solongo			
				Designed	B.Nyamlkhagva		Date	2025.06





	List of buildings affected by the planned road K1+950 - K2+650		
№	Building name	Unit of measure	Quantity
1	Water line, well	m, piece	361.7; 4
2	Building	m2	5547.0
3	Voltage overhead line 6-10 кВ	m	860.5
4	Voltage overhead line 0.4 кВ	m	635.4
5	220 kV overhead power line	m	810.2
6	Overhead power line support	piece	36
7	Sewel line	m	78.0
8	Sewel well	piece	3
9	Thermal line, well	m; piece	76.2; 1
10	Lighting pole	piece	19
11	Communication line, well	m; piece	97.0; 3
12	Bridge	piece	2
13	Drainage line	piece	251.2
14	Drainage well	piece	6
15	Existing road	m2	0
16	Land of possession	m2	7009.8
17	Land of ownership	m2	10098.3
18	Existing road	m2	4482.3

Identification sign

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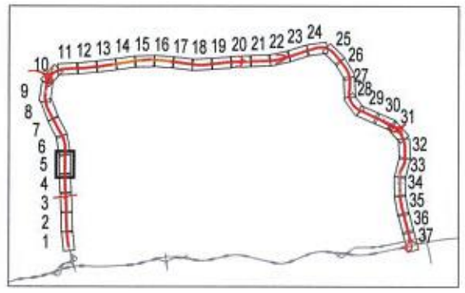
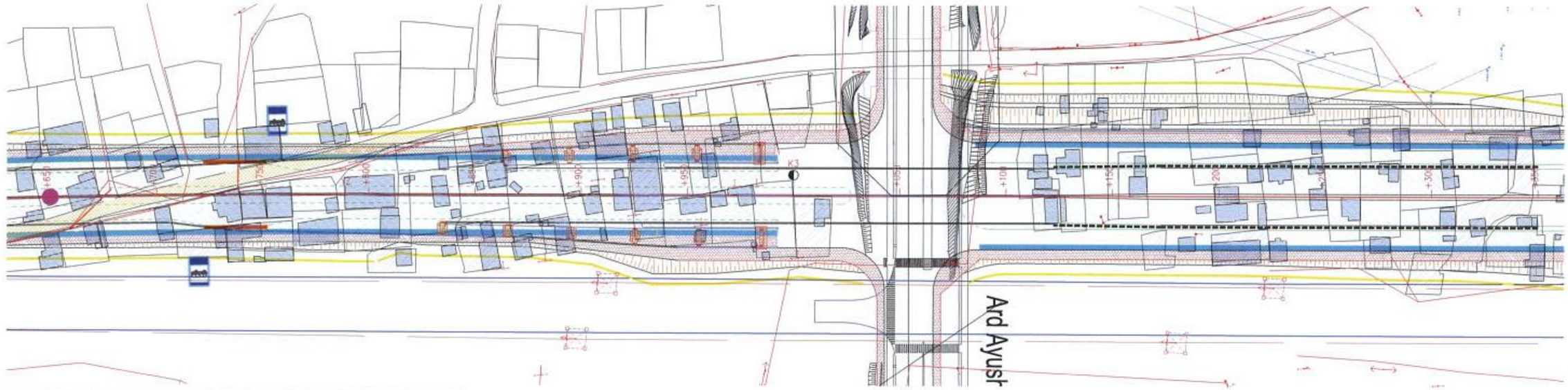
A study of the current situation				Master Des.	CaoYonXiang		Page	ОБ-5
				Checked	L.Solongo		Date	2025.06
				Designed	B.Nyamikhagva			

Position Thumbnail





	List of buildings affected by the planned road K2+650 - K3+350		
№	Building name	Unit of measure	Quantity
1	Building	m2	8266.3
2	Voltage overhead line 6-10 кВ	m	174.1
3	Voltage overhead line 0.4 кВ	m	376.8
4	220 kV overhead power line	m	159.3
5	Overhead power line support	piece	10
6	Lighting pole	piece	9
7	Existing road	m2	0
8	Land of possession	m2	5336.1
9	Land of ownership	m2	31059.3

Identification sign

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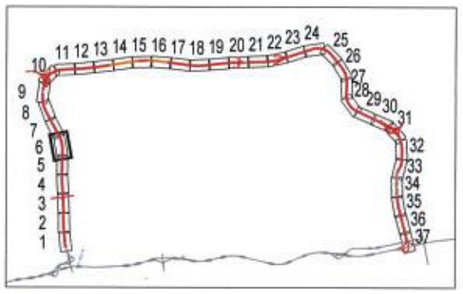
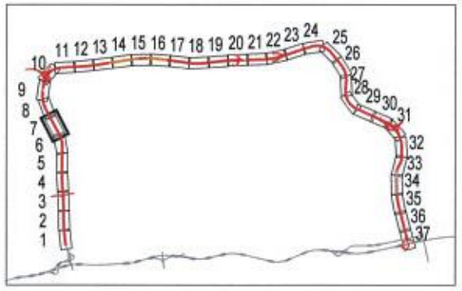
A study of the current situation				Master Des.	CaoYonXiang	Page	ОБ-6
				Checked	L.Solongo		
				Designed	B.Nyamlkhagva	Date	2025.06

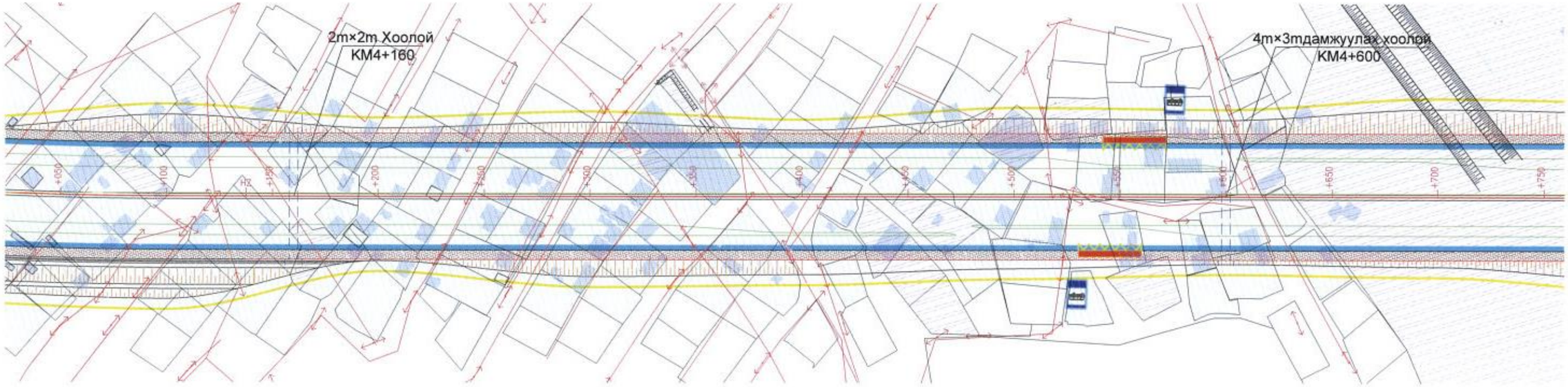
Position Thumbnail



	List of buildings affected by the planned road K3+350 - K4+050		
№	Building name	Unit of measure	Quantity
1	Building	m2	7835.8
2	Voltage overhead line 6-10 кВ	m	104.2
3	Voltage overhead line 0.4 кВ	m	1204.7
4	220 kV overhead power line	m	130.7
5	Overhead power line support	piece	34
6	Lighting pole	piece	28
7	Voltage overhead line 6-10 кВ	m	226.4
8	Existing road	m2	0
9	Land of possession	m2	8127.3
10	Land of ownership	m2	50445.8
11	Existing road	m2	3282.5

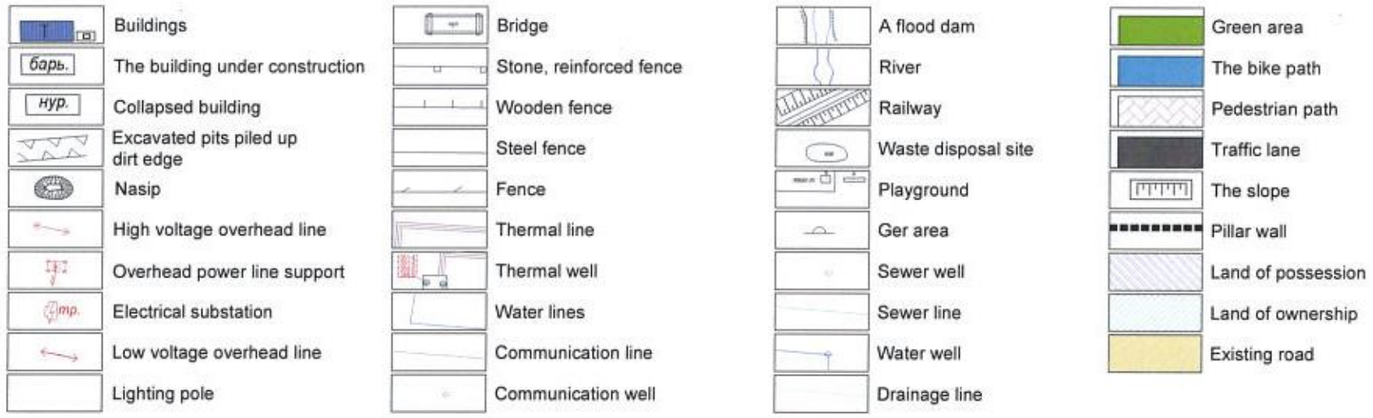
Position Thumbnail





	List of buildings affected by the planned road K4+050 - K4+750		
№	Building name	Unit of measure	Quantity
1	Building	m2	9024.6
2	Voltage overhead line 6-10 кВ	m	325.1
3	Voltage overhead line 0.4 кВ	m	968.1
4	Overhead power line support	piece	25
5	Lighting pole	piece	26
6	Existing road	m2	0
7	Land of possession	m2	113880.1
8	Land of ownership	m2	38204.6
9			

Identification sign



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			A study of the current situation				Master Des.	CaoYonXiang
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							Designed	B.Nyamkhagva

Scale	1:2000
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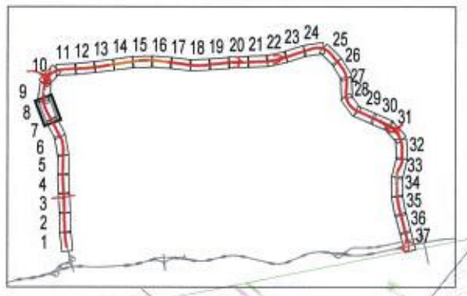
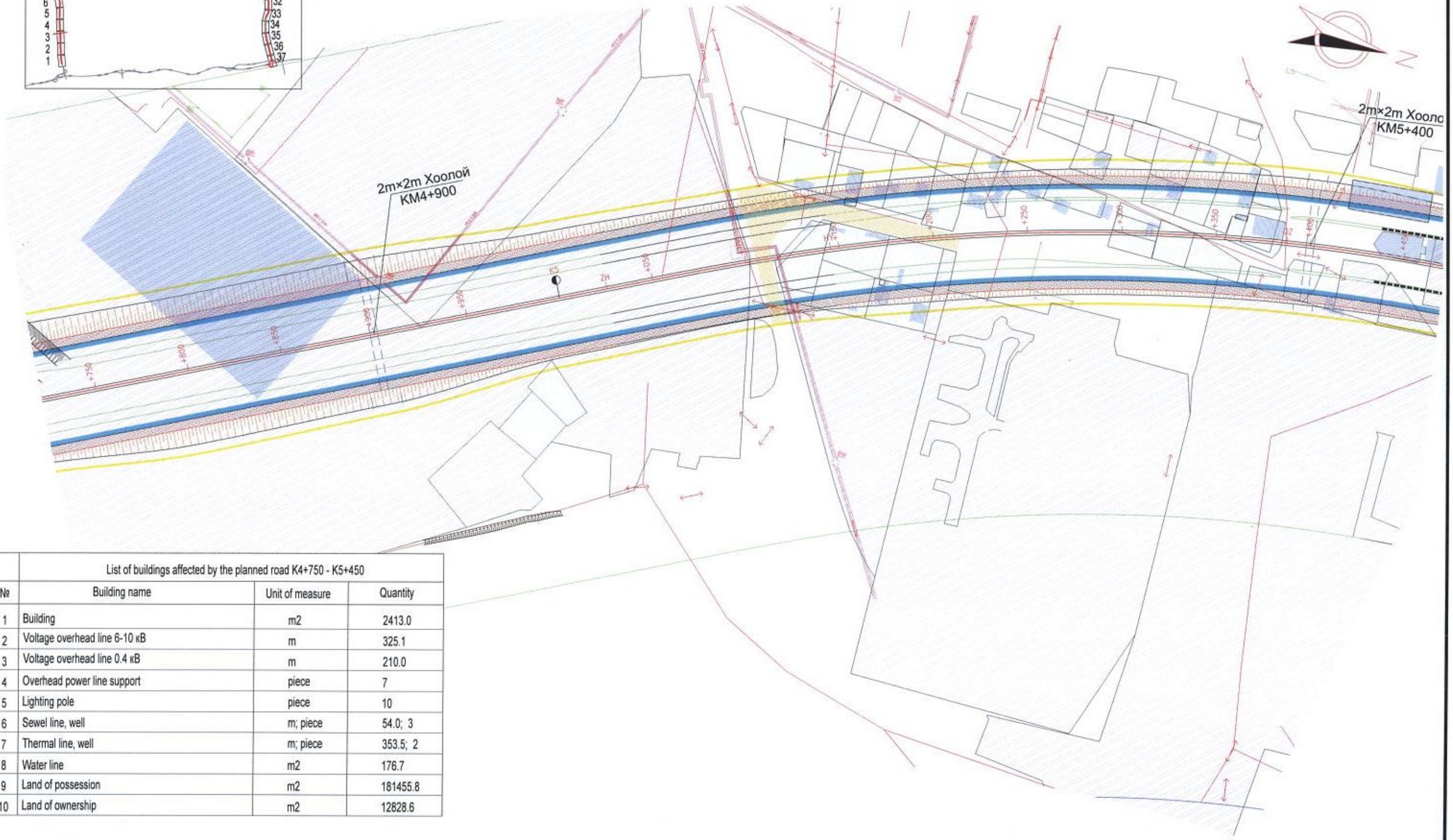
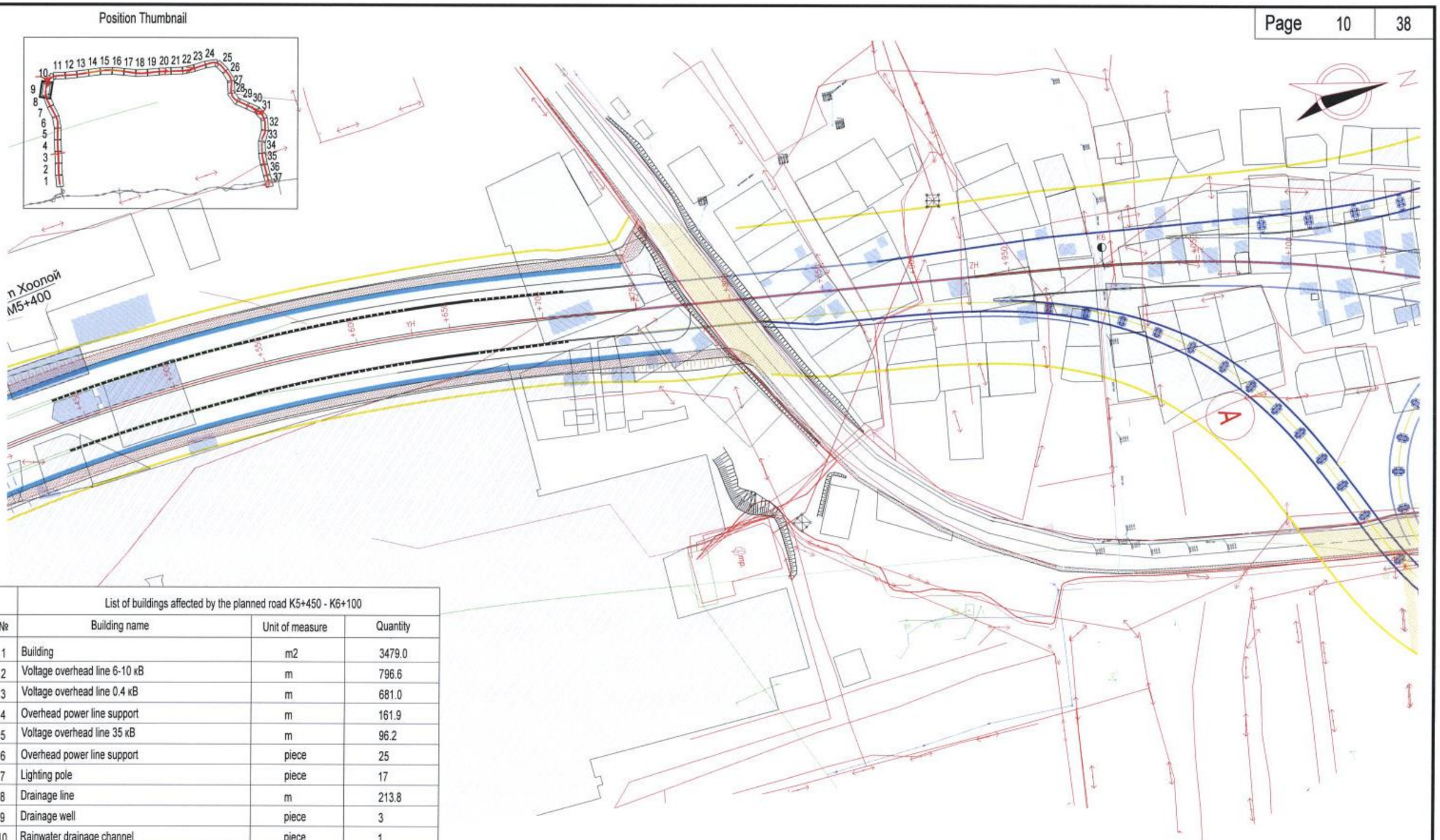




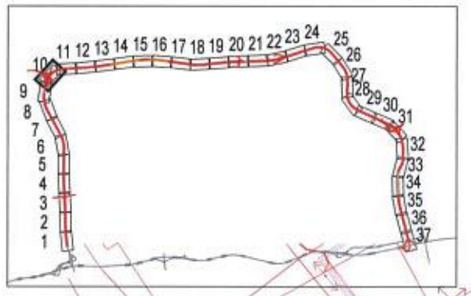
	List of buildings affected by the planned road K4+750 - K5+450		
№	Building name	Unit of measure	Quantity
1	Building	m2	2413.0
2	Voltage overhead line 6-10 кВ	m	325.1
3	Voltage overhead line 0.4 кВ	m	210.0
4	Overhead power line support	piece	7
5	Lighting pole	piece	10
6	Sewel line, well	m; piece	54.0; 3
7	Thermal line, well	m; piece	353.5; 2
8	Water line	m2	176.7
9	Land of possession	m2	181455.8
10	Land of ownership	m2	12828.6

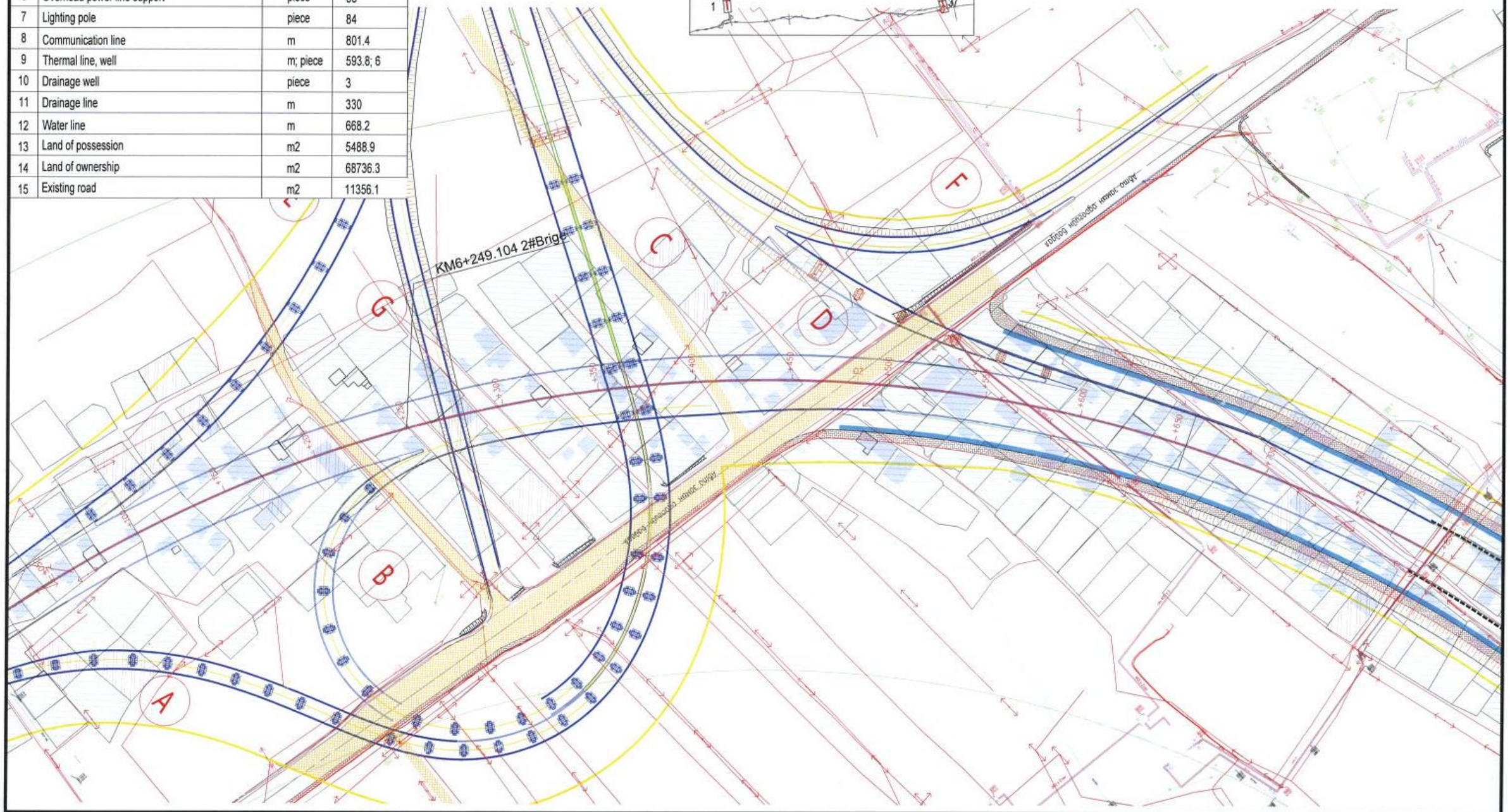


	List of buildings affected by the planned road K5+450 - K6+100		
№	Building name	Unit of measure	Quantity
1	Building	m2	3479.0
2	Voltage overhead line 6-10 кВ	m	796.6
3	Voltage overhead line 0.4 кВ	m	681.0
4	Overhead power line support	m	161.9
5	Voltage overhead line 35 кВ	m	96.2
6	Overhead power line support	piece	25
7	Lighting pole	piece	17
8	Drainage line	m	213.8
9	Drainage well	piece	3
10	Rainwater drainage channel	piece	1
11	Communication line	m	201.6
12	Water line	m	12.0
13	Land of possession	m2	3707.8
14	Land of ownership	m2	28447.5
15	Existing road	m2	1831.4

	List of buildings affected by the planned road K6+100 - K6+850		
№	Building name	Unit of measure	Quantity
1	Building	m2	10059.2
2	Voltage overhead line 6-10 кВ	m	686.2
3	Voltage overhead cabel 6-10 кВ	m	572.0
4	Voltage overhead cabel 0.4 кВ	m	4144.5
5	High voltage overhead cabel	m	205.6
6	Overhead power line support	piece	58
7	Lighting pole	piece	84
8	Communication line	m	801.4
9	Thermal line, well	m; piece	593.8; 6
10	Drainage well	piece	3
11	Drainage line	m	330
12	Water line	m	668.2
13	Land of possession	m2	5488.9
14	Land of ownership	m2	68736.3
15	Existing road	m2	11356.1

Position Thumbnail





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Scale	1:2000
Page	ОБ-11
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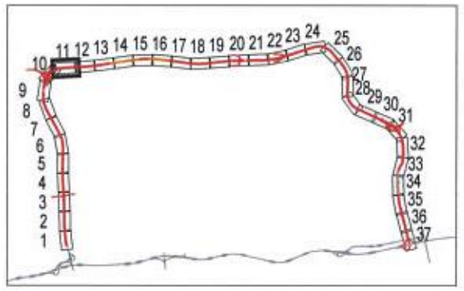
Position Thumbnail

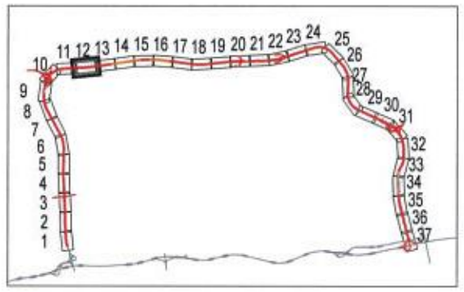


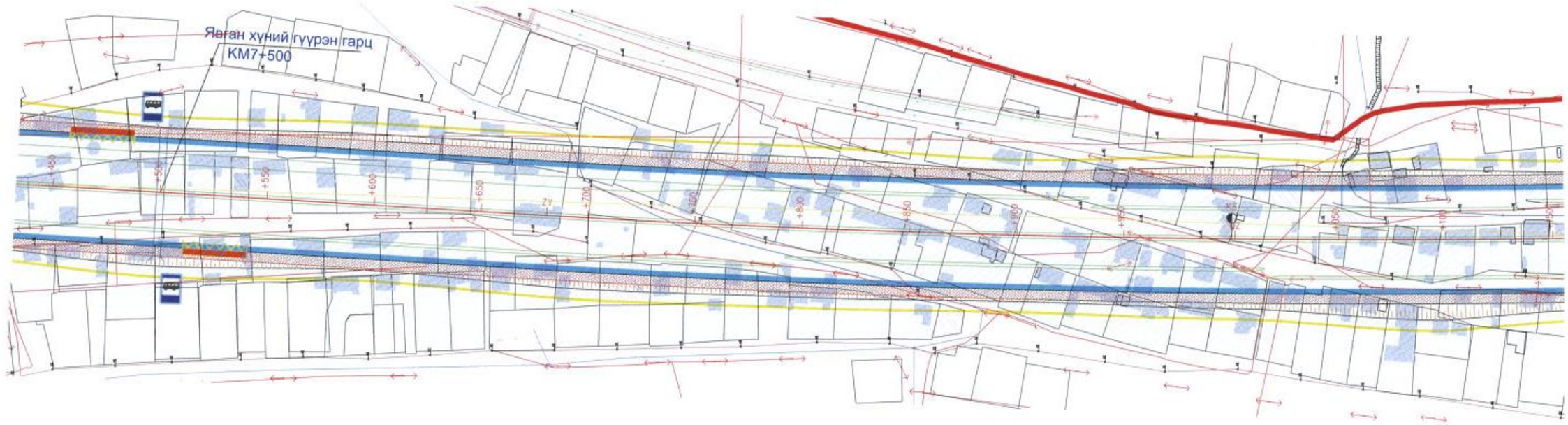
	List of buildings affected by the planned road		
№	Building name	Unit of measure	Quantity
1	Building	m2	5898.4
2	Electrical overhead line 6-10 кВ	m	328.1
3	Electrical overhead line 0.4 кВ	m	407.0
4	Cable 0.4 кВ	m	556.4
5	Overhead power line support	piece	21
6	Lighting pole	piece	23
7	Communication line	m	230.2
8	Land of possession	m2	2265.9
9	Land of ownership	m2	32000.7

Identification sign

- Buildings
- The building under construction (барь.)
- Collapsed building (нур.)
- Excavated pits piled up dirt edge
- Nasip
- High voltage overhead line
- Overhead power line support
- Electrical substation (тр.)
- Low voltage overhead line
- Lighting pole
- Bridge
- Stone, reinforced fence
- Wooden fence
- Steel fence
- Fence
- Thermal line
- Thermal well
- Water lines
- Communication line
- Communication well
- A flood dam
- River
- Railway
- Waste disposal site
- Playground
- Ger area
- Sewer well
- Sewer line
- Water well
- Drainage line
- Green area
- The bike path
- Pedestrian path
- Traffic lane
- The slope
- Pillar wall
- Land of possession
- Land of ownership
- Existing road

Position Thumbnail





	List of buildings affected by the planned road		
№	Building name	Unit of measure	Quantity
1	Building	m2	10054.6
2	Electrical overhead line 6-10 кВ	m	319.8
3	Electrical overhead line 0.4 кВ	m	1932.4
4	Overhead power line support	piece	28
5	Lighting pole	piece	29
6	Water supply line	m	341.3
7	Water supply well	piece	4
8	Land of possession	m2	1476.7
9	Land of ownership	m2	48180.4

Identification sign

- Buildings
- The building under construction (барь.)
- Collapsed building (нур.)
- Excavated pits piled up dirt edge
- Nasip
- High voltage overhead line
- Overhead power line support
- Electrical substation (тр.)
- Low voltage overhead line
- Lighting pole
- Bridge
- Stone, reinforced fence
- Wooden fence
- Steel fence
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- Water lines
- Communication line
- Communication well
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- Waste disposal site
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- Green area
- The bike path
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- Traffic lane
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- Pillar wall
- Land of possession
- Land of ownership
- Existing road

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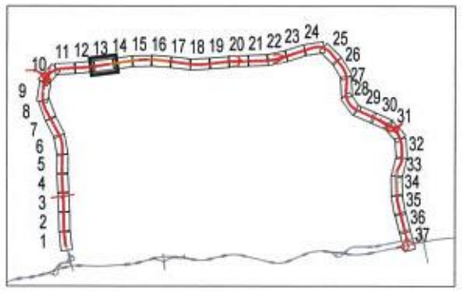
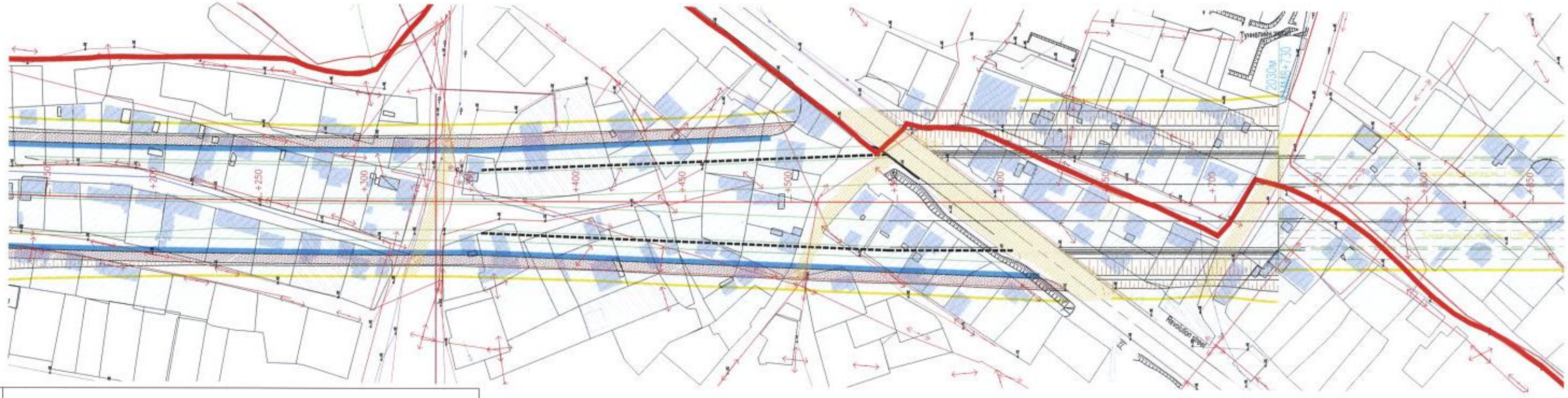
			A study of the current situation		Master Des.: CaoYonXiang	Page: ОБ-13		
					Checked: L.Solongo			
					Designed: B.Nyamkhagva	Date: 2025.06		

Position Thumbnail





	List of buildings affected by the planned road		
№	Building name	Unit of measure	Quantity
1	Building	m2	10350.7
2	Electrical overhead line 6-10 кВ	m	634.7
3	Electrical overhead line 0.4 кВ	m	2098.8
4	Electrical cable 6-10 кВ	m	185.0
5	Electrical cable 35 кВ	m	1992.0
6	Overhead power line support	piece	43
7	Lighting pole	piece	48
8	Water supply line	m	736.8
9	Thermal line	m	143.8
10	Water supply well	piece	13
11	Communication line	m	154.2
12	Land of possession	m2	4576.1
13	Land of ownership	m2	46951.9
14	Existing road	m2	3898.5

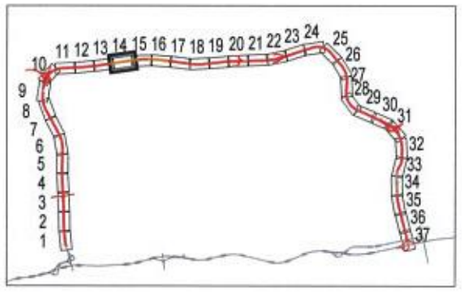
Identification sign

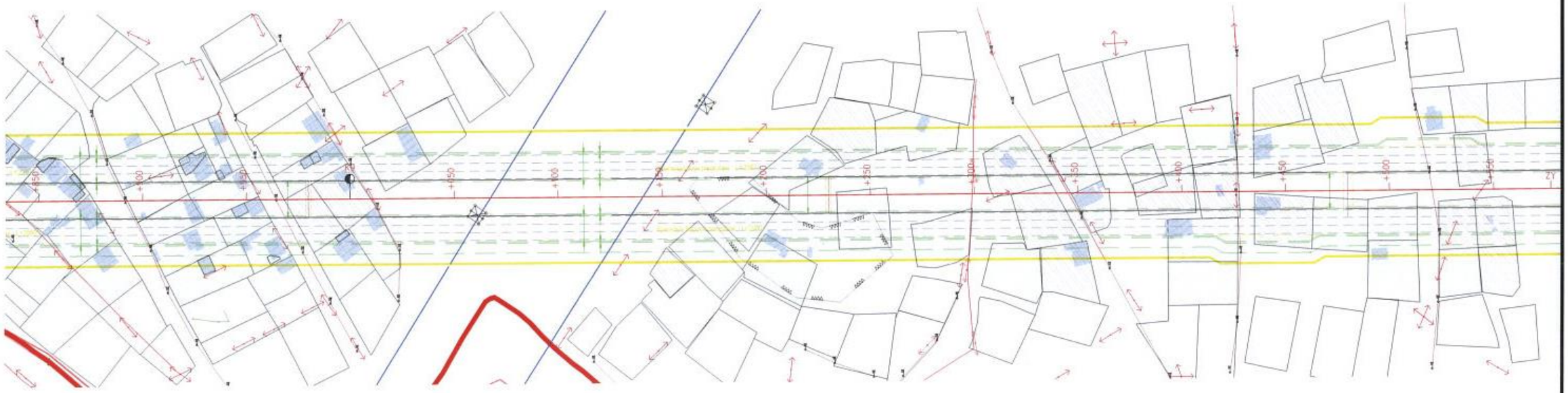
- Buildings
- The building under construction (барь.)
- Collapsed building (нур.)
- Excavated pits piled up dirt edge
- Nasip
- High voltage overhead line
- Overhead power line support
- Electrical substation (тр.)
- Low voltage overhead line
- Lighting pole
- Bridge
- Stone, reinforced fence
- Wooden fence
- Steel fence
- Fence
- Thermal line
- Thermal well
- Water lines
- Communication line
- Communication well
- A flood dam
- River
- Railway
- Waste disposal site
- Playground
- Ger area
- Sewer well
- Sewer line
- Water well
- Drainage line
- Green area
- The bike path
- Pedestrian path
- Traffic lane
- The slope
- Pillar wall
- Land of possession
- Land of ownership
- Existing road

中国市政工程西北设计研究院有限公司 CSCEC AECOM CONSULTANTS CO., LTD	AVANTGARDE URAN DESIGN & Engineering	The Feasibility Study and Concept Design of the 'First Ring Road' Project of Ulaanbaatar City	Stage	Technical Drawings	Project No	10-2024-2509	Des.Manager	Pang Wei
			A study of the current situation				Master Des.	CaoYonXiang
							Checked	L.Solongo
							Designed	B.Nyamlkhagva

Scale	1:2000
Page	ОБ-14
Date	2025.06

Position Thumbnail





	List of buildings affected by the planned road		
№	Building name	Unit of measure	Quantity
1	Building	m2	2755.4
2	Electrical overhead line 6-10 кВ	m	63.1
3	Electrical overhead line 0.4 кВ	m	420.9
4	Electrical overhead line 220 кВ	m	150.5
5	Overhead power line support	piece	17
6	Lighting pole	piece	15
7	Land of possession	m2	9573.6
8	Land of ownership	m2	20526.7

Identification sign

- Buildings
- The building under construction
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- High voltage overhead line
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- Electrical substation
- Low voltage overhead line
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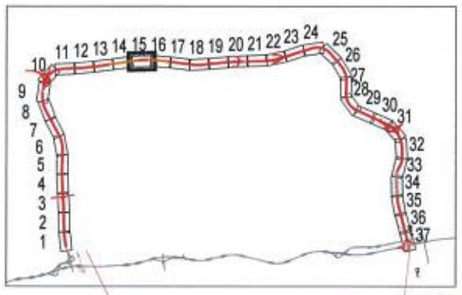
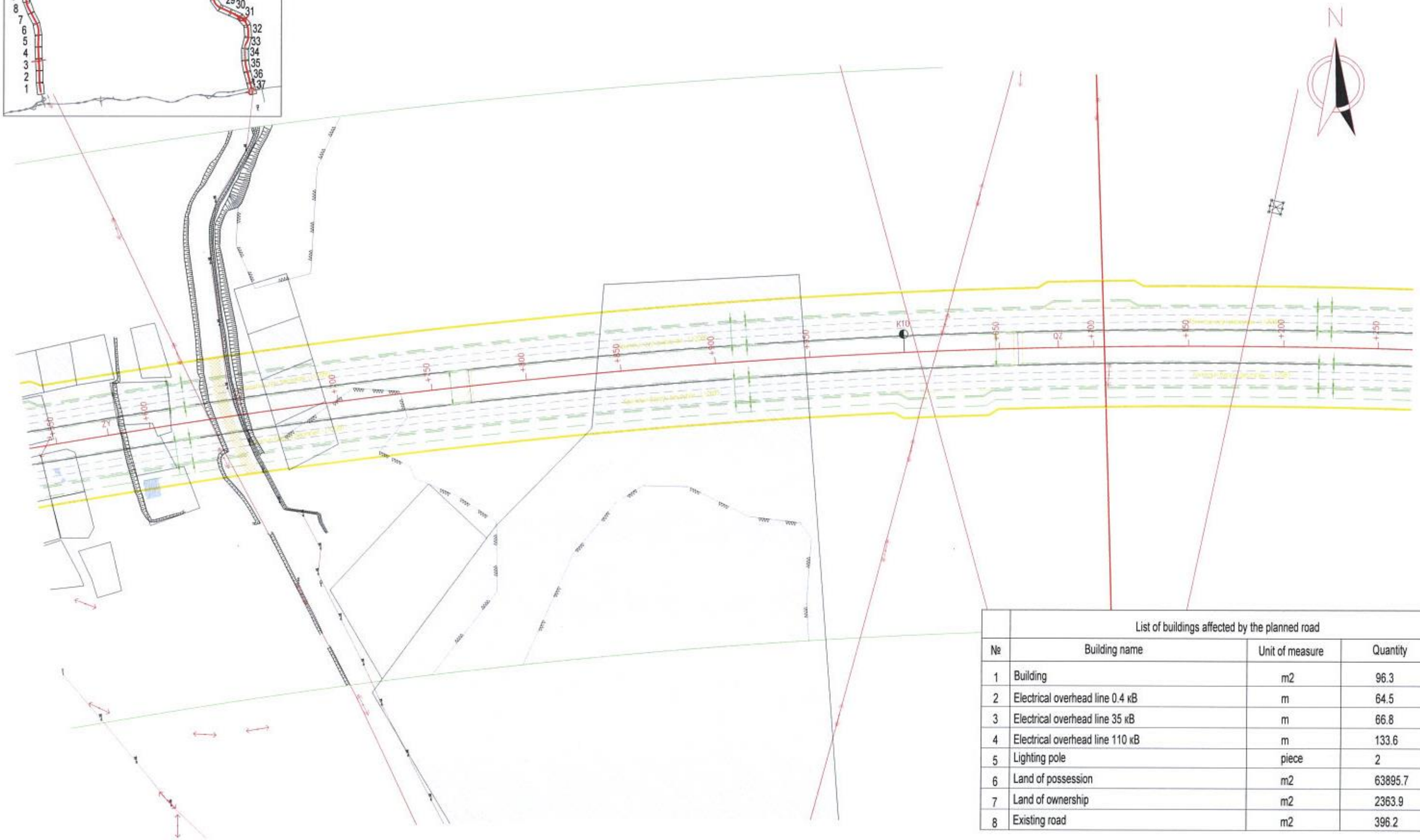
- Traffic lane
- The slope
- Pillar wall
- Land of possession
- Land of ownership
- Existing road

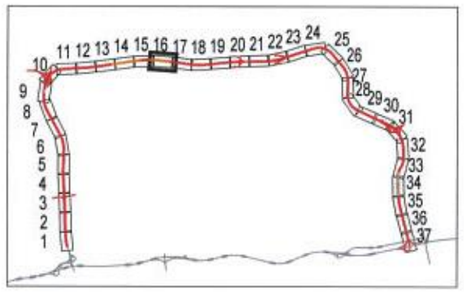
中国市政工程西北设计研究院有限公司 CSCEC AECOM CONSULTANTS CO., LTD	AVANTGARDE URAN DESIGN & Engineering	The Feasibility Study and Concept Design of the 'First Ring Road' Project of Ulaanbaatar City	Stage	Technical Drawings	Project No	10-2024-2509	Des.Manager	Pang Wei	Scale 1:2000
			A study of the current situation				Master Des.	CaoYonXiang	Page ОБ-15
							Checked	L.Solongo	
							Designed	B.Nyamkhagva	Date 2025.06

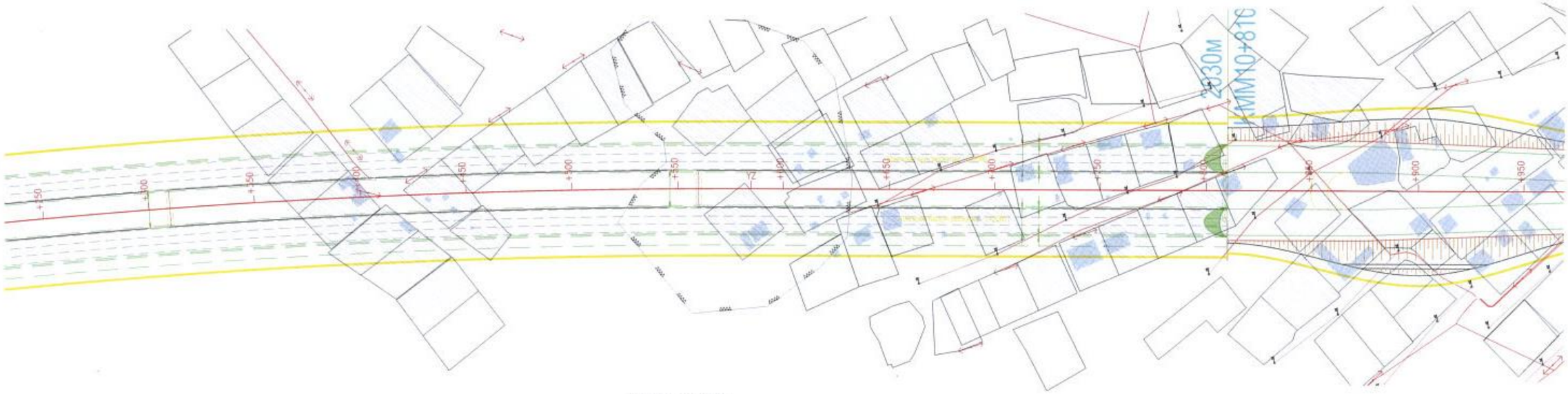
Position Thumbnail





Position Thumbnail





	List of buildings affected by the planned road		
№	Building name	Unit of measure	Quantity
1	Building	m2	2514.2
2	Electrical cable 0.4 кВ	m	34.3
3	Electrical overhead line 0.4 кВ	m	823.0
4	Overhead power line support	piece	8
5	Lighting pole	piece	13
6	Land of possession	m2	15765.8
7	Land of ownership	m2	16224.7

Identification sign

- Buildings
- The building under construction (барь.)
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- Electrical substation (тр.)
- Low voltage overhead line
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- Water lines
- Communication line
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- Sewer line
- Water well
- Drainage line
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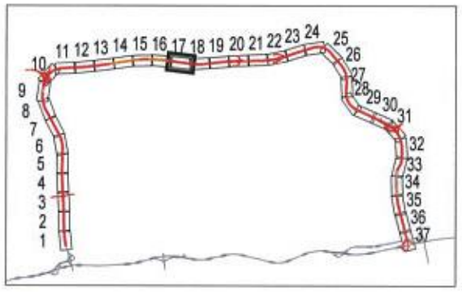
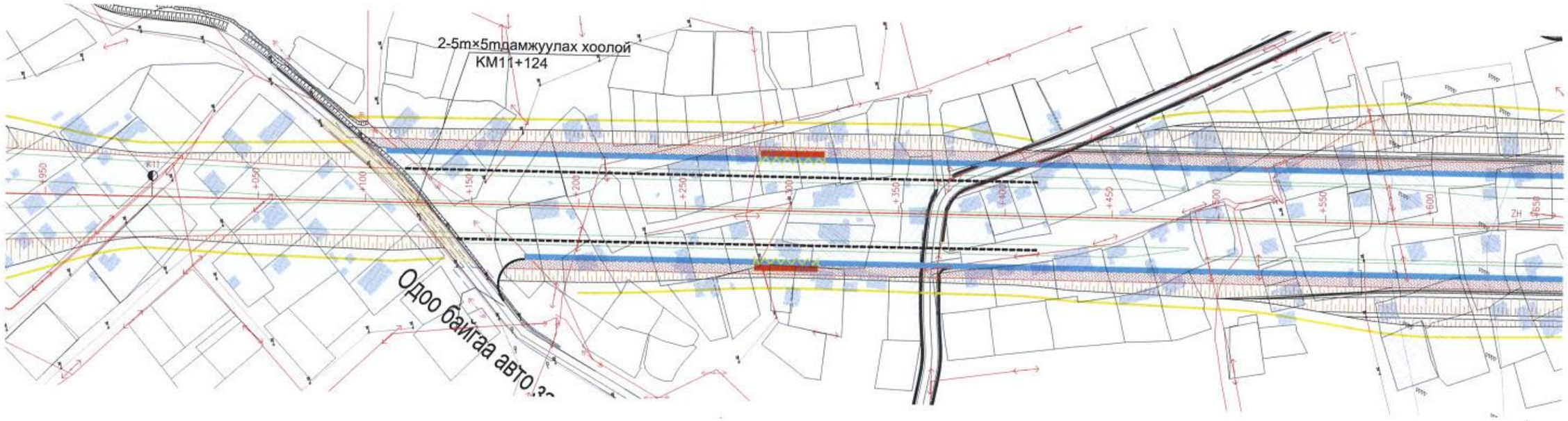
- Pedestrian path
- Traffic lane
- The slope
- Pillar wall
- Land of possession
- Land of ownership
- Existing road

中国市政工程西北设计研究院有限公司 CSCEC AECOM CONSULTANTS CO., LTD	AVANTGARDE URAN DESIGN & Engineering	The Feasibility Study and Concept Design of the 'First Ring Road' Project of Ulaanbaatar City	Stage	Technical Drawings	Project No	10-2024-2509	Des.Manager	Pang Wei	Scale	1:2000
			A study of the current situation				Master Des.	CaoYonXiang	Page	ОБ-17
							Checked	L.Solongo	Date	2025.06
							Designed	B.Nyamlkhagva		

Position Thumbnail





	List of buildings affected by the planned road		
№	Building name	Unit of measure	Quantity
1	Building	m2	7057.3
2	Electrical cable 0.4 кВ	m	208.6
3	Electrical overhead line 6-10 кВ	m	132.6
4	Electrical overhead line 0.4 кВ	m	1320.4
5	Overhead power line support	piece	21
6	Lighting pole	piece	16
7	Land of possession	m2	5516.3
8	Land of ownership	m2	46407.2

Identification sign

- Buildings
- The building under construction
- Collapsed building
- Excavated pits piled up dirt edge
- Nasip
- High voltage overhead line
- Overhead power line support
- Electrical substation
- Low voltage overhead line
- Lighting pole
- Bridge
- Stone, reinforced fence
- Wooden fence
- Steel fence
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- Water lines
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- Communication well
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- Sewer line
- Water well
- Drainage line
- Green area
- The bike path
- Pedestrian path
- Traffic lane
- The slope
- Pillar wall
- Land of possession
- Land of ownership
- Existing road

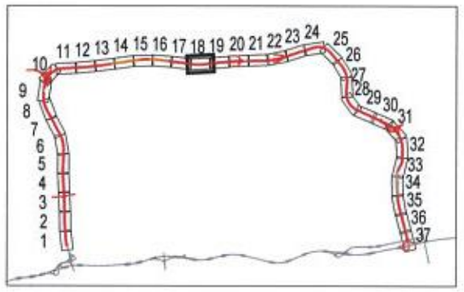
中国市政工程西北设计研究院有限公司
CSCEC AECOM CONSULTANTS CO., LTD

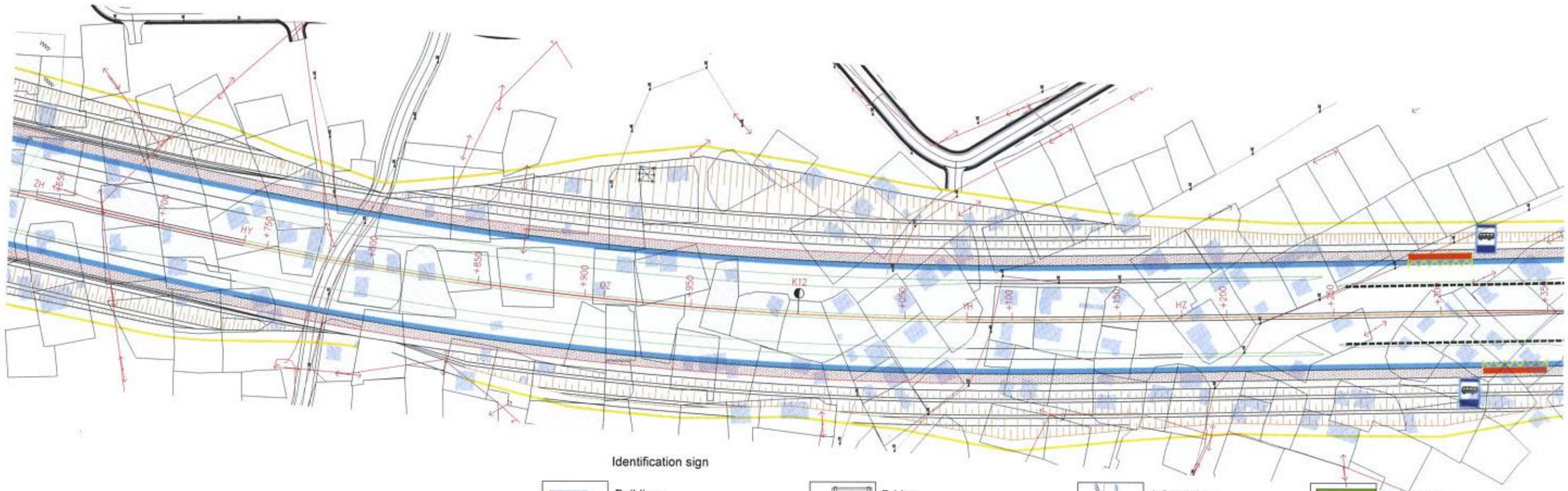
AVANTGARDE URAN
DESIGN & Engineering

The Feasibility Study and Concept Design of the 'First Ring Road' Project of Ulaanbaatar City

Stage	Technical Drawings	Project No	10-2024-2509	Des.Manager	Pang Wei		Scale	1:2000
A study of the current situation				Master Des.	CaoYonXiang		Page	ОБ-18
				Checked	L.Solongo		Date	2025.06
				Designed	B.Nyamlkhagva			

Position Thumbnail





	List of buildings affected by the planned road		
№	Building name	Unit of measure	Quantity
1	Building	m2	6866.3
2	Electrical cable 0.4 кВ	m	208.6
3	Electrical overhead line 0.4 кВ	m	1319.5
4	Overhead power line support	piece	12
5	Lighting pole	piece	20
6	Land of possession	m2	56635.0
7	Land of ownership	m2	5538.9

Identification sign

- Buildings
- The building under construction (барь.)
- Collapsed building (нур.)
- Excavated pits piled up dirt edge
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- High voltage overhead line
- Overhead power line support
- Electrical substation (тр.)
- Low voltage overhead line
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- The bike path
- Pedestrian path
- Traffic lane
- The slope
- Pillar wall
- Land of possession
- Land of ownership
- Existing road

中国市政工程西北设计研究院有限公司 CSCEC AECOM CONSULTANTS CO., LTD	AVANTGARDE URAN DESIGN & Engineering	The Feasibility Study and Concept Design of the 'First Ring Road' Project of Ulaanbaatar City	Stage	Technical Drawings	Project No	10-2024-2509	Des.Manager	Pang Wei
			A study of the current situation				Master Des.	CaoYonXiang
							Checked	L.Solongo
							Designed	B.Nyamikhagva

Scale	1:2000
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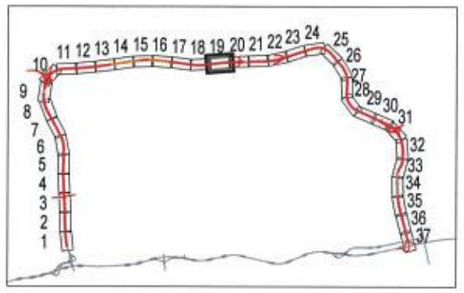
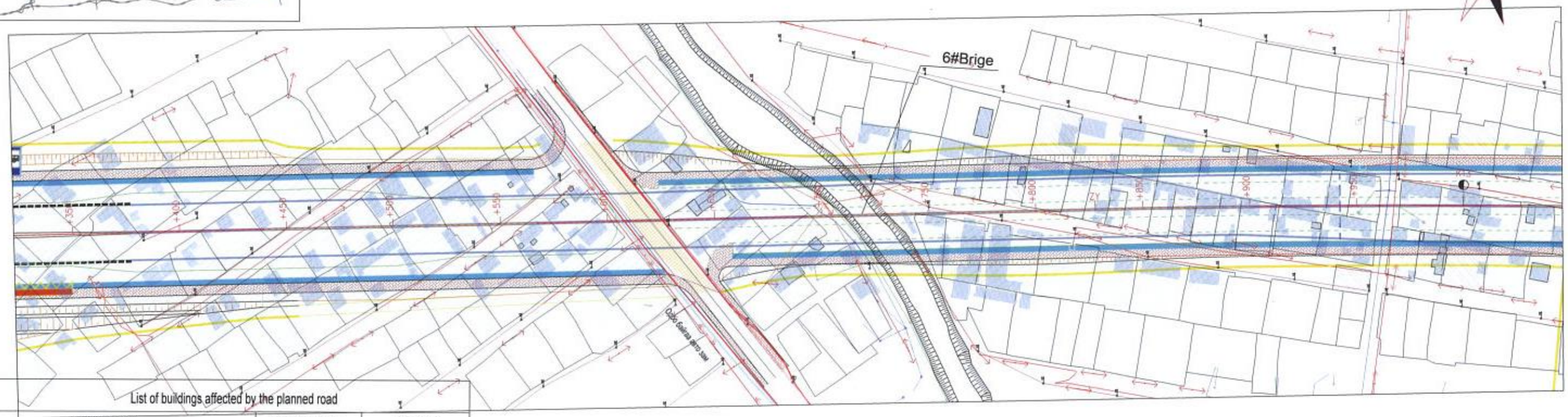
Date	2025.06

Position Thumbnail





List of buildings affected by the planned road

№	Building name	Unit of measure	Quantity
1	Building	m2	10060.2
2	Electrical cable 0.4 кВ	m	208.6
3	Electrical cable 6-10 кВ	m	566.5
4	Electrical high voltage	m	92.5
5	Electrical overhead line 6-10 кВ	m	293.0
6	Electrical overhead line 0.4 кВ	m	1111.7
7	Overhead power line support	piece	25
8	Lighting pole	piece	24
9	Water supply line	m	269.2
10	Water supply well	piece	3
11	Thermal well	m	95.1
12	Sewer line	piece	6
13	Sewer well	m	118.4
14	Бороony усны piесеугам	m	185.0
15	Цэвэр усны piесеугамын худаг	m2	3
16	Land of possession	m2	2149.0
17	Land of ownership	m2	39482.4
18	Existing road	m2	753.7

Identification sign

- Buildings
- The building under construction (барь.)
- Collapsed building (нур.)
- Excavated pits piled up dirt edge
- Nasip
- High voltage overhead line
- Overhead power line support
- Electrical substation (тр.)
- Low voltage overhead line
- Lighting pole
- Bridge
- Stone, reinforced fence
- Wooden fence
- Steel fence
- Fence
- Thermal line
- Thermal well
- Water lines
- Communication line
- Communication well
- A flood dam
- River
- Railway
- Waste disposal site
- Playground
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- Sewer well
- Sewer line
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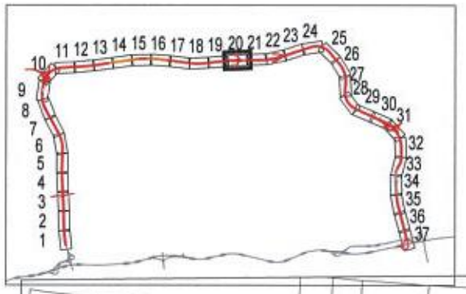
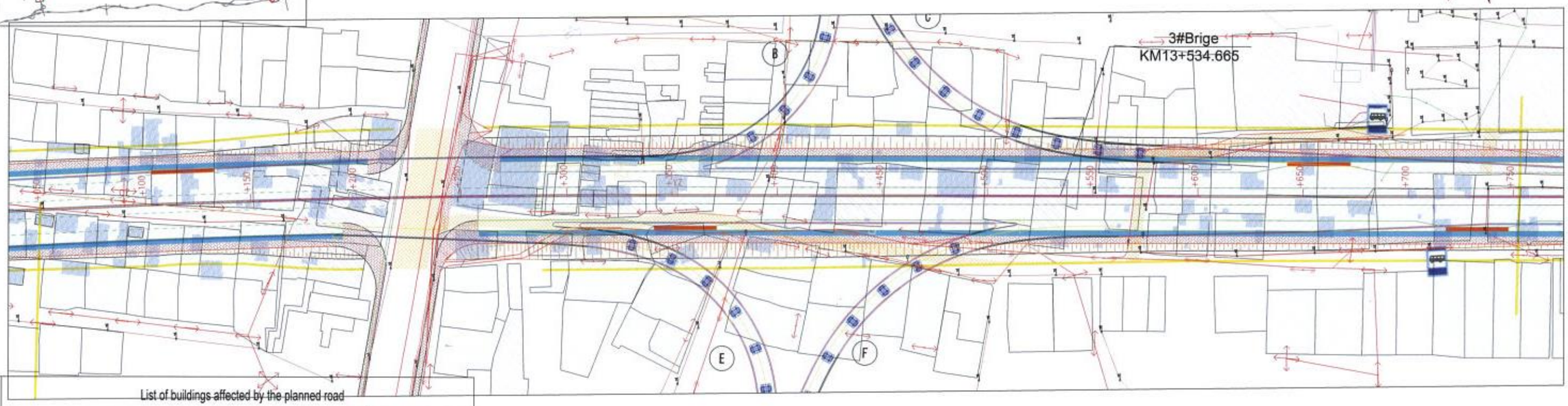
- Drainage line
- Green area
- The bike path
- Pedestrian path
- Traffic lane
- The slope
- Pillar wall
- Land of possession
- Land of ownership
- Existing road

中国市政工程西北设计研究院有限公司 CSCEC AECOM CONSULTANTS CO., LTD	AVANTGARDE URAN DESIGN & Engineering	The Feasibility Study and Concept Design of the 'First Ring Road' Project of Ulaanbaatar City	Stage	Technical Drawings	Project No	10-2024-2509	Des.Manager	Pang Wei
			A study of the current situation				Master Des.	CaoYonXiang
							Checked	L.Solongo
							Designed	B.Nyamkhagva

Scale	1:2000
Page	ОБ-20
Date	2025.06

Position Thumbnail





List of buildings affected by the planned road

№	Building name	Unit of measure	Quantity
1	Building	m2	7674.8
2	Electrical overhead line 6-10 кВ	m	158.0
3	Electrical high voltage cable	m	56.0
4	Electrical overhead line 6-10 кВ	m	523.5
5	Electrcial overhead line 0.4 кВ	m	1644.1
6	Overhead power line support	piece	46
7	Lighting pole	piece	43
8	Water supply line	m	27.7
9	Water supply well	piece	2
10	Thermal line	m	500.0
11	Thermal well	piece	1
12	Sewer line	m	223.6
13	Sewer well	piece	8
14	Communication line	m	67.5
15	Drainage line	m	98.0
16	Land of possession	m2	11687.4
17	Land of ownership	m2	41775.9
18	Existing road	m2	3626.3

Identification sign

- Buildings
- The building under construction
- Collapsed building
- Excavated pits piled up dirt edge
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- High voltage overhead line
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- Electrical substation
- Low voltage overhead line
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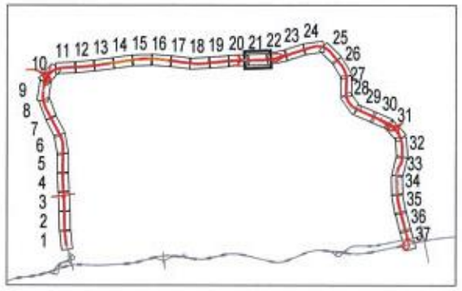
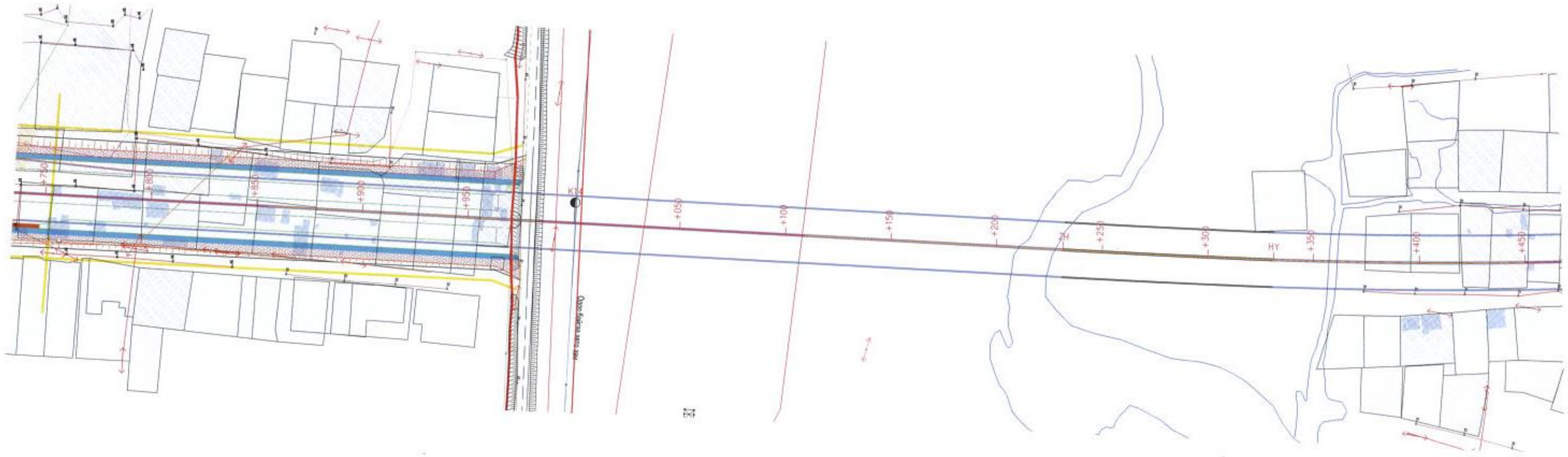
- Drainage line
- Green area
- The bike path
- Pedestrian path
- Traffic lane
- The slope
- Pillar wall
- Land of possession
- Land of ownership
- Existing road

Position Thumbnail





	List of buildings affected by the planned road		
№	Building name	Unit of measure	Quantity
1	Land of ownership	m2	27630
2	Land of possesion	m2	16848
3	Building	m2	1352.34
4	35кВ cable	m	24
5	Electric overhead line 0.4 кВ	у/м	26
6	Electric overhead line 6-10 кВ	у/м	6
7	Sewer line	у/м	12
8	Sewer well	ш	2
9	Road	м2	24
10	Thermal line	у/м	
11	Communication line	у/м	25.8

Identification sign

- Buildings
- The building under construction (барь.)
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- A flood dam
- River
- Railway
- Waste disposal site
- Playground
- Ger area
- Sewer well
- Sewer line
- Water well
- Drainage line
- Green area
- The bike path
- Pedestrian path
- Traffic lane
- The slope
- Pillar wall
- Land of possession
- Land of ownership
- Existing road

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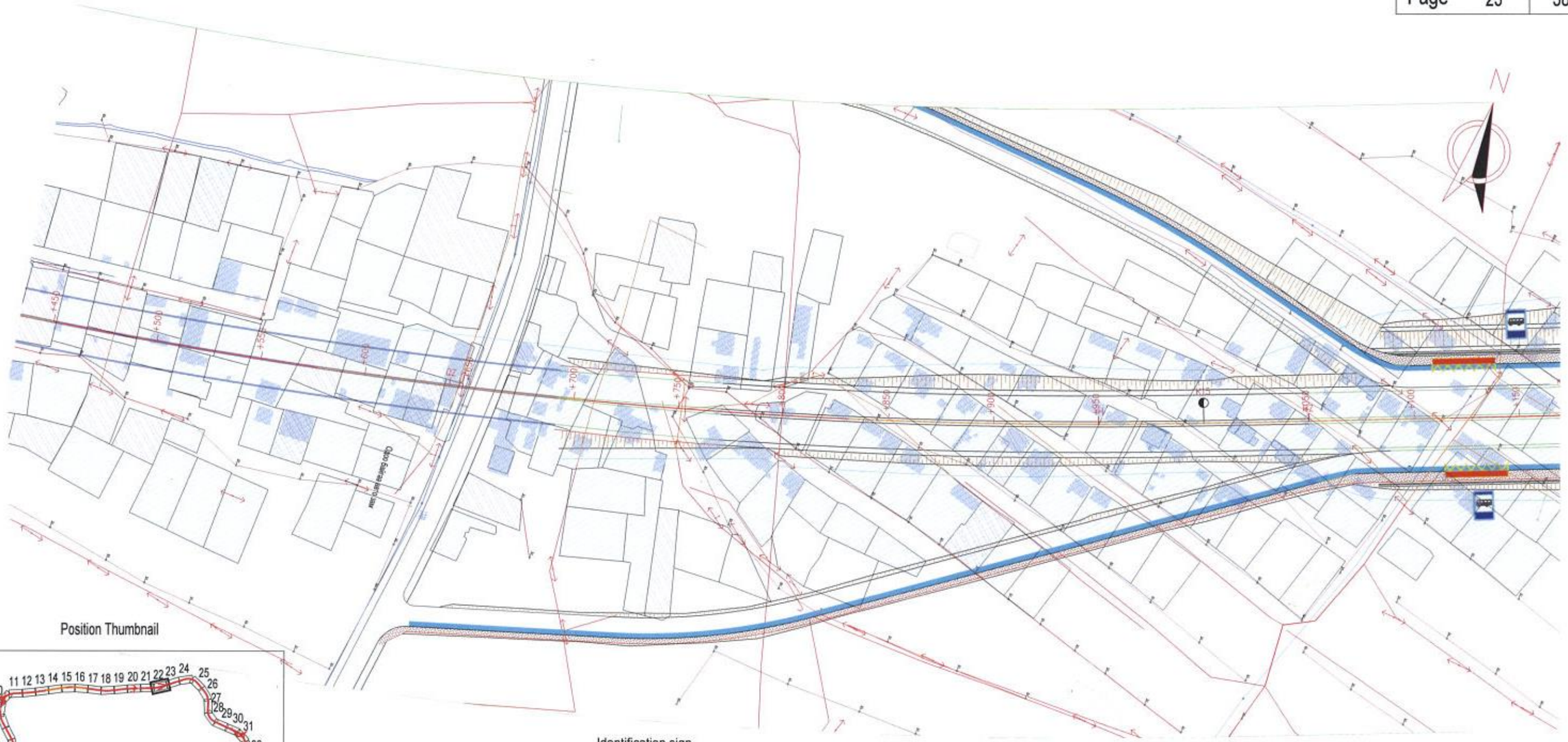
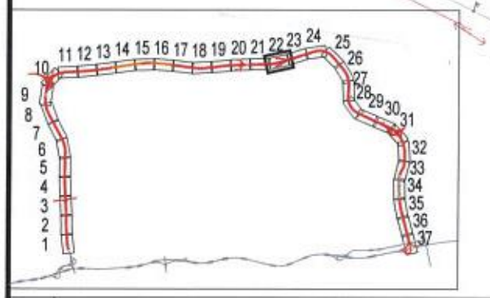
AVANTGARDE URAN
DESIGN & Engineering

The Feasibility Study and Concept Design of the 'First Ring Road' Project of Ulaanbaatar City

Stage	Technical Drawings	Project No	10-2024-2509	Des.Manager	Pang Wei		Scale 1:2000
A study of the current situation				Master Des.	CaoYonXiang		Page ОБ-22
				Checked	L.Solongo		Date 2025.06
				Designed	B.Nyamlkhagva		



Position Thumbnail



	List of buildings affected by the planned road		
№	Building name	Unit of measure	Quantity
1	Land of ownership	m2	54992
2	Land of possession	m2	14498
3	Building	m2	7728
4	Electrical overhead line 6-10 кВ	m	4.5
5	Electrical overhead line 0.4 кВ	m	54
6	Road	m2	37

Identification sign

- Buildings
- The building under construction (барь.)
- Collapsed building (нур.)
- Excavated pits piled up dirt edge
- Nasip
- High voltage overhead line
- Overhead power line support
- Electrical substation (тр.)
- Low voltage overhead line
- Lighting pole
- Bridge
- Stone, reinforced fence
- Wooden fence
- Steel fence
- Fence
- Thermal line
- Thermal well
- Water lines
- Communication line
- Communication well
- A flood dam
- River
- Railway
- Waste disposal site
- Playground
- Ger area
- Sewer well
- Sewer line
- Water well
- Drainage line
- Green area
- The bike path
- Pedestrian path
- Traffic lane
- The slope
- Pillar wall
- Land of possession
- Land of ownership
- Existing road

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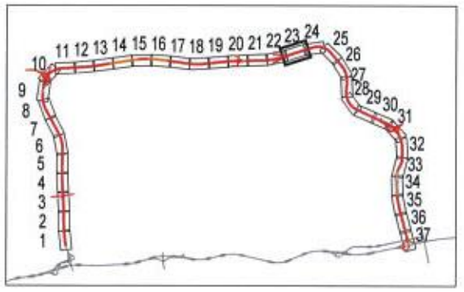
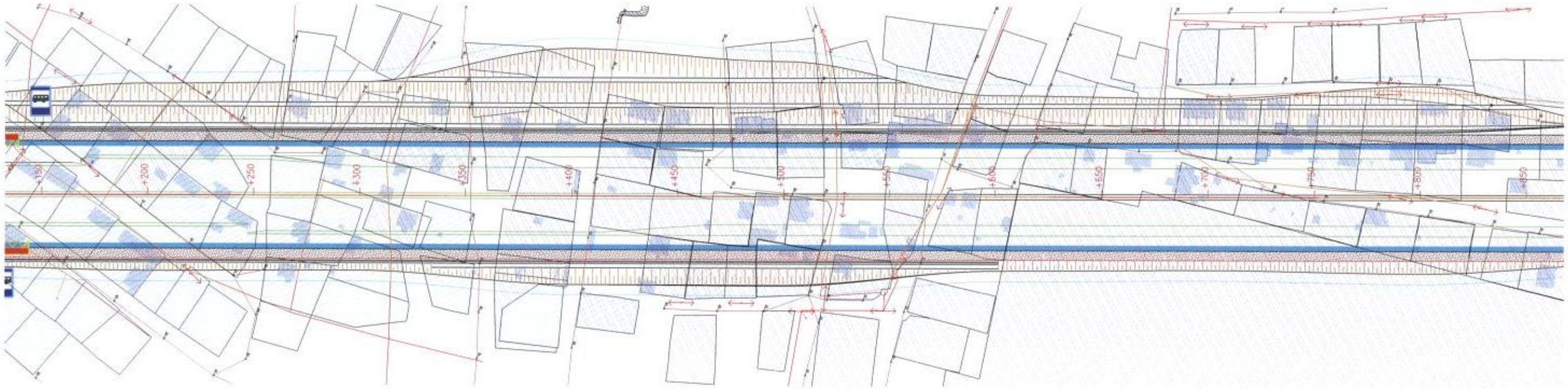
AVANTGARDE URAN
DESIGN & Engineering

The Feasibility Study and Concept Design of the 'First Ring Road' Project of Ulaanbaatar City

Stage	Technical Drawings	Project No	10-2024-2509	Des.Manager	Pang Wei		Scale 1:2000
A study of the current situation				Master Des.	CaoYonXiang		Page ОБ-23
				Checked	L.Solongo		
				Designed	B.Nyamlkhagva		Date 2025.06

Position Thumbnail





Identification sign

- Buildings
- The building under construction
- Collapsed building
- Excavated pits piled up dirt edge
- Nasip
- High voltage overhead line
- Overhead power line support
- Electrical substation
- Low voltage overhead line
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- A flood dam
- River
- Railway
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- Ger area
- Sewer well
- Sewer line
- Water well
- Drainage line
- Green area
- The bike path
- Pedestrian path
- Traffic lane
- The slope
- Pillar wall
- Land of possession
- Land of ownership
- Existing road

List of buildings affected by the planned road

№	Building name	Unit of measure	Quantity
1	Land of ownership	m2	27370
2	Land of possession	m2	46484
3	Building	m2	5671
4	Electrical overhead line 6-10 кВ	m	
5	Electrical overhead line 0.4 кВ	m	148

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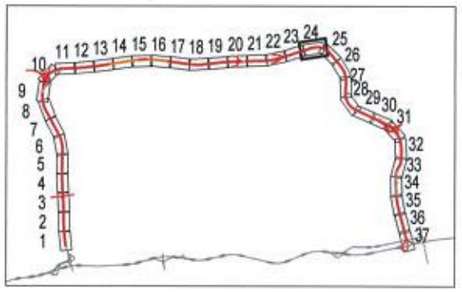
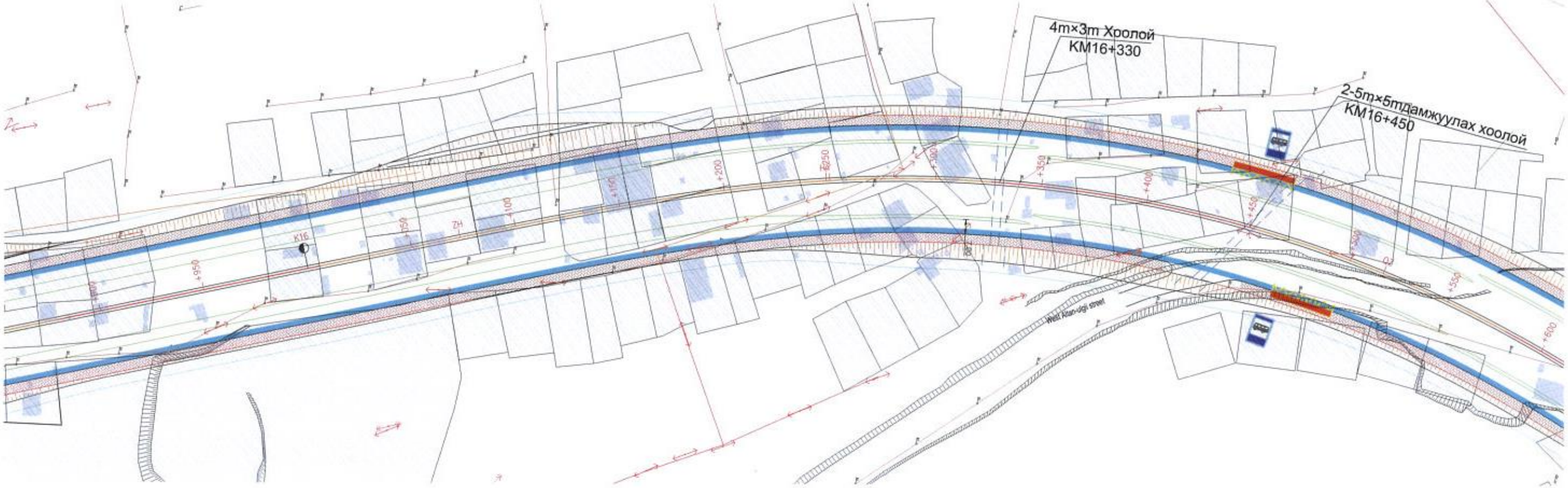
AVANTGARDE URAN
DESIGN & Engineering

The Feasibility Study and Concept Design of the 'First Ring Road' Project of Ulaanbaatar City

Stage	Technical Drawings	Project No	10-2024-2509	Des.Manager	Pang Wei		Scale	1:2000
A study of the current situation				Master Des.	CaoYonXiang		Page	ОБ-24
				Checked	L.Solongo		Date	2025.06
				Designed	B.Nyamlkhagva			

Position Thumbnail





Identification sign

- Buildings
- The building under construction
- Collapsed building
- Excavated pits piled up dirt edge
- Nasip
- High voltage overhead line
- Overhead power line support
- Electrical substation
- Low voltage overhead line
- Lighting pole
- Bridge
- Stone, reinforced fence
- Wooden fence
- Steel fence
- Fence
- Thermal line
- Thermal well
- Water lines
- Communication line
- Communication well
- A flood dam
- River
- Railway
- Waste disposal site
- Playground
- Ger area
- Sewer well
- Sewer line
- Water well
- Drainage line
- Green area
- The bike path
- Pedestrian path
- Traffic lane
- The slope
- Pillar wall
- Land of possession
- Land of ownership
- Existing road

List of buildings affected by the planned road

№	Building name	Unit of measure	Quantity
1	Land of ownership	m2	2382
2	Land of possession	m2	151278
3	Building	m2	4140
4	Electrical overhead line 6-10 кВ	m	
5	Electrical overhead line 0.4 кВ	m	87

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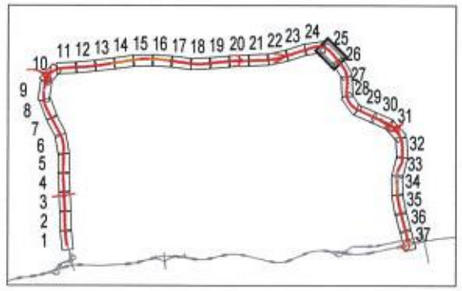
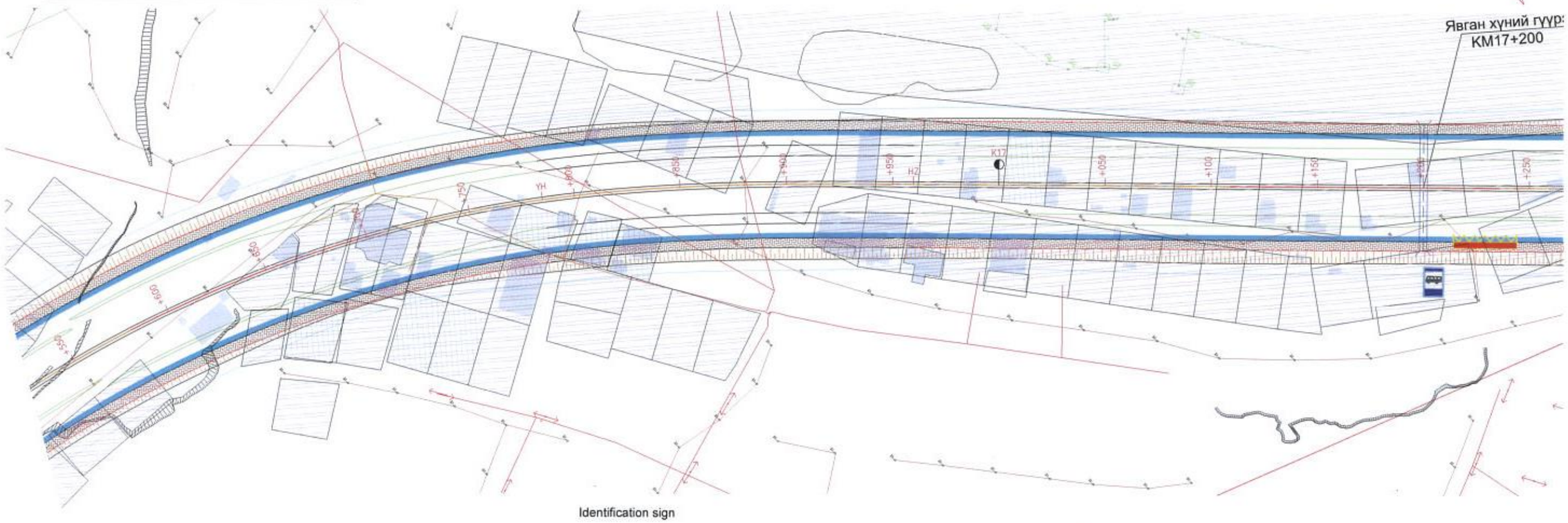
AVANTGARDE URAN
DESIGN & Engineering

The Feasibility Study and Concept Design of the 'First Ring Road' Project of Ulaanbaatar City

Stage	Technical Drawings	Project No	10-2024-2509	Des.Manager	Pang Wei		Scale	1:2000
A study of the current situation				Master Des.	CaoYonXiang		Page	ОБ-25
				Checked	L.Solongo			
				Designed	B.Nyamkhagva		Date	2025.06

Position Thumbnail





Identification sign

Buildings	Bridge	A flood dam	Green area
The building under construction	Stone, reinforced fence	River	The bike path
Collapsed building	Wooden fence	Railway	Pedestrian path
Excavated pits piled up dirt edge	Steel fence	Waste disposal site	Traffic lane
Nasip	Fence	Playground	The slope
High voltage overhead line	Thermal line	Ger area	Pillar wall
Overhead power line support	Thermal well	Sewer well	Land of possession
Electrical substation	Water lines	Sewer line	Land of ownership
Low voltage overhead line	Communication line	Water well	Existing road
Lighting pole	Communication well	Drainage line	

List of buildings affected by the planned road

№	Building name	Unit of measure	Quantity
1	Land of ownership	m2	4218
2	Land of possession	m2	41862
3	Building	m2	5137
4	Electrical overhead line 6-10 кВ	m	25
5	Electrical overhead line 0.4 кВ	m	87

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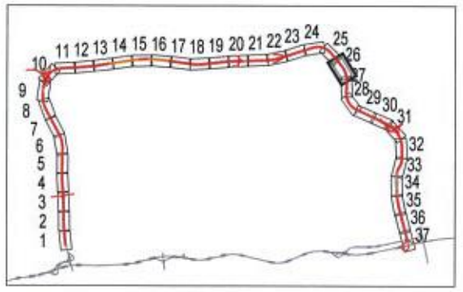
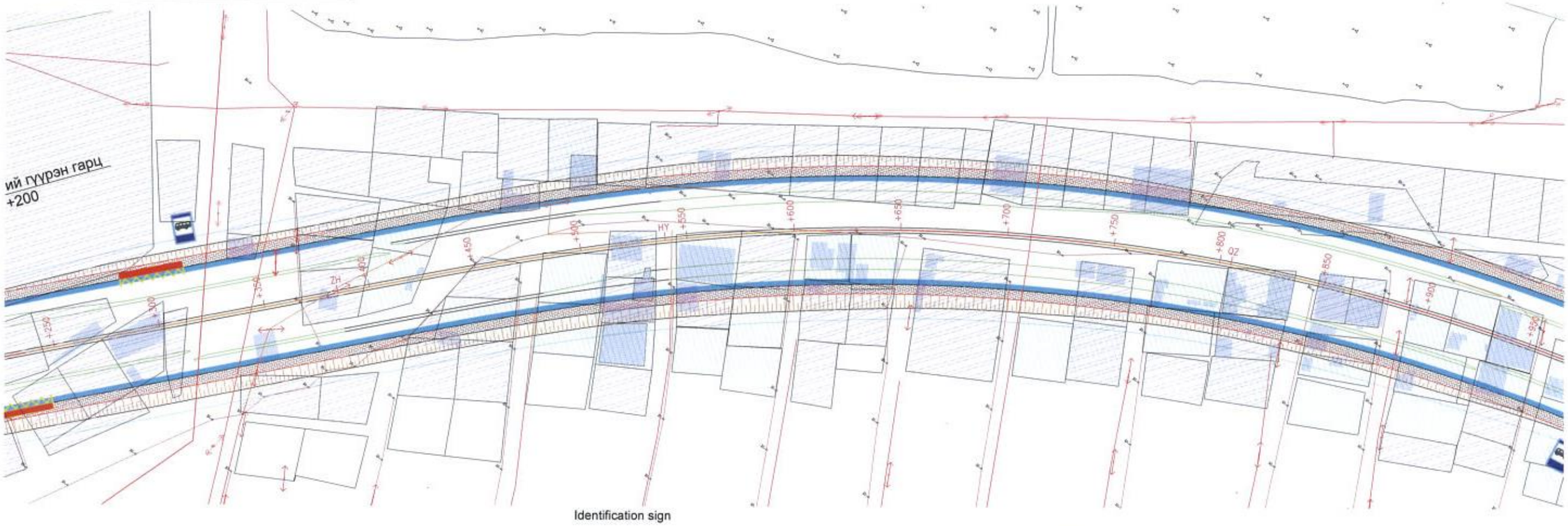
DESIGN & Engineering

The Feasibility Study and Concept Design of the 'First Ring Road' Project of Ulaanbaatar City

Stage	Technical Drawings	Project No	10-2024-2509	Des.Manager	Pang Wei		Scale 1:2000
A study of the current situation				Master Des.	CaoYonXiang		Page ОБ-26
				Checked	L.Solongo		Date 2025.06
				Designed	B.Nyamlkhagva		

Position Thumbnail





Identification sign

Buildings	Bridge	A flood dam	Green area
The building under construction	Stone, reinforced fence	River	The bike path
Collapsed building	Wooden fence	Railway	Pedestrian path
Excavated pits piled up dirt edge	Steel fence	Waste disposal site	Traffic lane
Nasip	Fence	Playground	The slope
High voltage overhead line	Thermal line	Ger area	Pillar wall
Overhead power line support	Thermal well	Sewer well	Land of possession
Electrical substation	Water lines	Sewer line	Land of ownership
Low voltage overhead line	Communication line	Water well	Existing road
Lighting pole	Communication well	Drainage line	

List of buildings affected by the planned road

№	Building name	Unit of measure	Quantity
1	Land of ownership	m2	14494
2	Land of possession	m2	42364
3	Building	m2	6800
4	Electrical overhead line 6-10 кВ	m	16.5
5	Electrical overhead line 0.4 кВ	m	36

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DESIGN & Engineering

The Feasibility Study and Concept Design of the 'First Ring Road' Project of Ulaanbaatar City

Stage	Technical Drawings	Project No	10-2024-2509	Des.Manager	Pang Wei		Scale 1:2000
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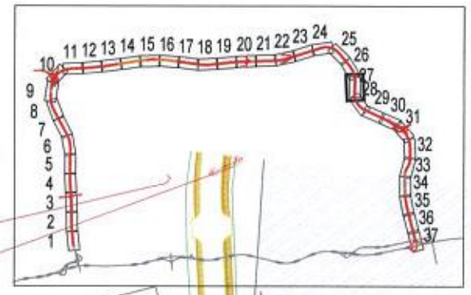
				Checked	L.Solongo		
				Designed	B.Nyamlkhagva		Date 2025.06

Position Thumbnail



	List of buildings affected by the planned road		
№	Building name	Unit of measure	Quantity
1	Land of ownership	m2	57210
2	Land of possession	m2	29166
3	Building	m2	9408
4	Electrical overhead line 6-10 кВ	m	
5	Electrical overhead line 0.4 кВ	m	87

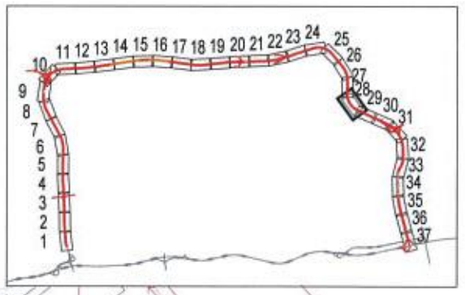
Identification sign

- Buildings
- The building under construction
- Collapsed building
- Excavated pits piled up dirt edge
- Nasip
- High voltage overhead line
- Overhead power line support
- Electrical substation
- Low voltage overhead line
- Lighting pole
- Bridge
- Stone, reinforced fence
- Wooden fence
- Steel fence
- Fence
- Thermal line
- Thermal well
- Water lines
- Communication line
- Communication well
- A flood dam
- River
- Railway
- Waste disposal site
- Playground
- Ger area
- Sewer well
- Sewer line
- Water well
- Drainage line
- Green area
- The bike path
- Pedestrian path
- Traffic lane
- The slope
- Pillar wall
- Land of possession
- Land of ownership
- Existing road

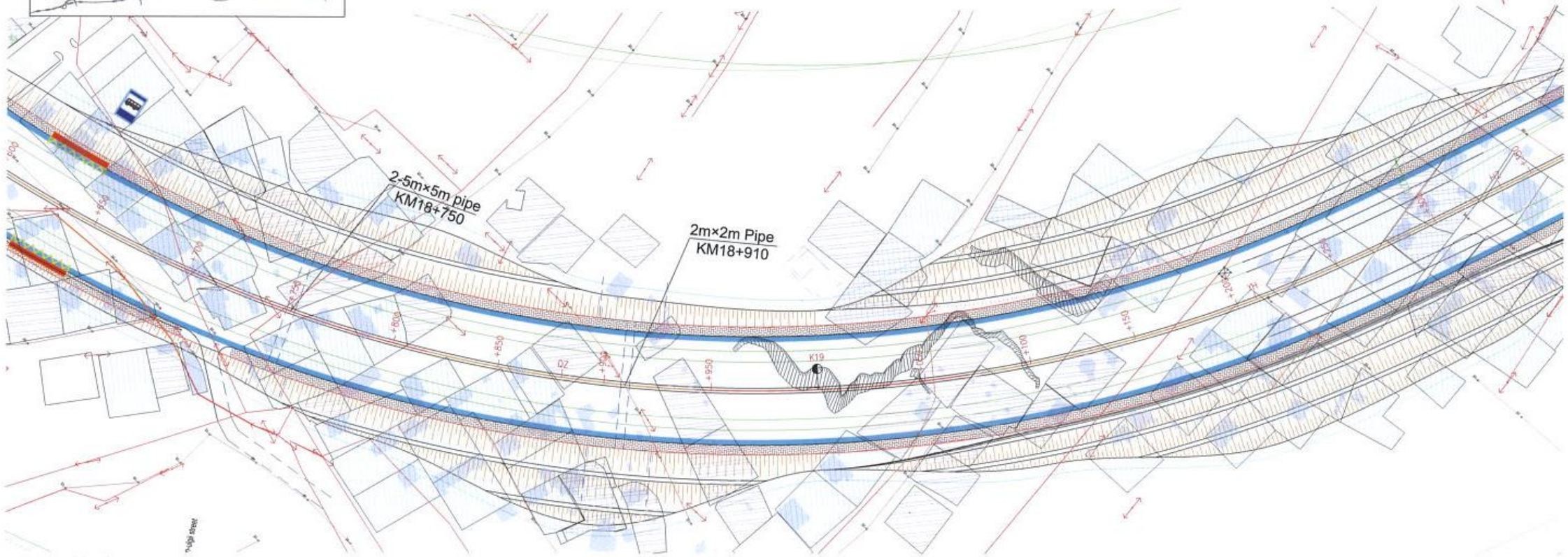
中国市政工程西北设计研究院有限公司 CSCEC AECOM CONSULTANTS CO., LTD	AVANTGARDE URAN DESIGN & Engineering	The Feasibility Study and Concept Design of the 'First Ring Road' Project of Ulaanbaatar City	Stage	Technical Drawings	Project No	10-2024-2509	Des.Manager	Pang Wei
			A study of the current situation				Master Des.	CaoYonXiang
							Checked	L.Solongo
							Designed	B.Nyamlkhagva

Scale	1:2000
Page	ОБ-28
Date	2025.06

Position Thumbnail



	List of buildings affected by the planned road		
№	Building name	Unit of measure	Quantity
1	Land of ownership	m2	34194
2	Land of possession	m2	58842
3	Building	m2	7028
4	Electrical overhead line 6-10 кВ	m	27.8
5	Electrical overhead line 0.4 кВ	m	58



Identification sign

Buildings	Bridge	A flood dam	Green area
The building under construction	Stone, reinforced fence	River	The bike path
Collapsed building	Wooden fence	Railway	Pedestrian path
Excavated pits piled up dirt edge	Steel fence	Waste disposal site	Traffic lane
Nasip	Fence	Playground	The slope
High voltage overhead line	Thermal line	Ger area	Pillar wall
Overhead power line support	Thermal well	Sewer well	Land of possession
Electrical substation	Water lines	Sewer line	Land of ownership
Low voltage overhead line	Communication line	Water well	Existing road
Lighting pole	Communication well	Drainage line	

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AVANTGARDE URAN
DESIGN & Engineering

The Feasibility Study and Concept Design of the 'First Ring Road' Project of Ulaanbaatar City

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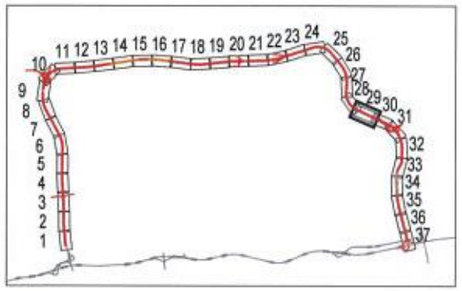
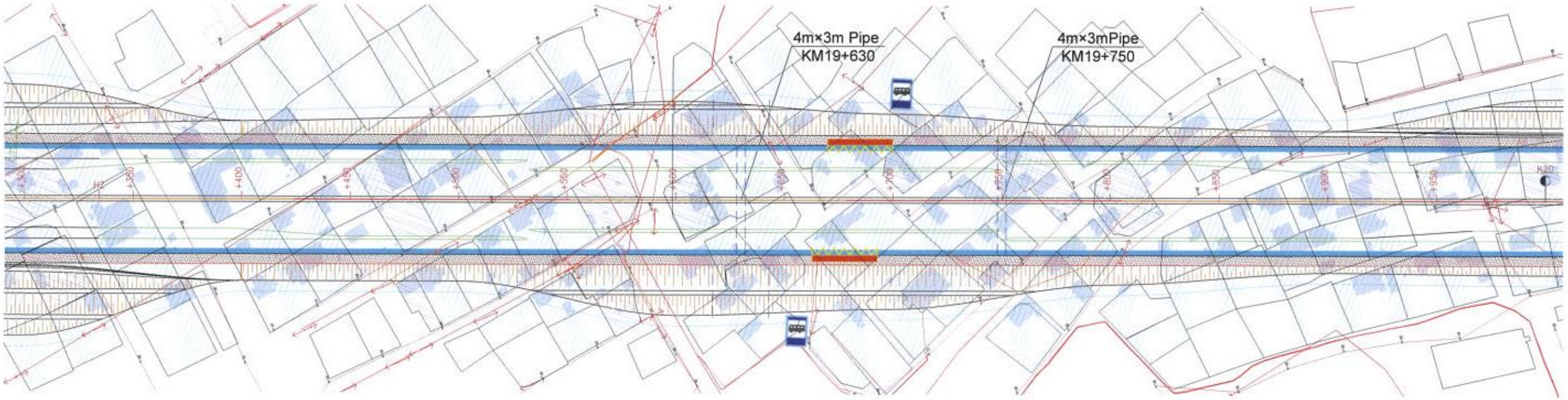
A study of the current situation				Master Des.	CaoYonXiang	Page	ОБ-29
				Checked	L.Solongo		
				Designed	B.Nyamkhagva	Date	2025.06

Position Thumbnail





Identification sign

- Buildings
- The building under construction
- Collapsed building
- Excavated pits piled up dirt edge
- Nasip
- High voltage overhead line
- Overhead power line support
- Electrical substation
- Low voltage overhead line
- Lighting pole
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- Communication line
- Communication well
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- Railway
- Waste disposal site
- Playground
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- Sewer well
- Sewer line
- Water well
- Drainage line
- Green area
- The bike path
- Pedestrian path
- Traffic lane
- The slope
- Pillar wall
- Land of possession
- Land of ownership
- Existing road

List of buildings affected by the planned road

№	Building name	Unit of measure	Quantity
1	Land of ownership	m2	53824
2	Land of possession	m2	51036
3	Building	m2	10488
4	Electrical overhead line 6-10 кВ	m	18
5	Electrical overhead line 0.4 кВ	m	72
6	6-10 кВ cable	m	6.3

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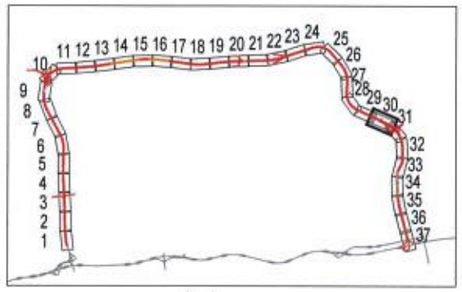
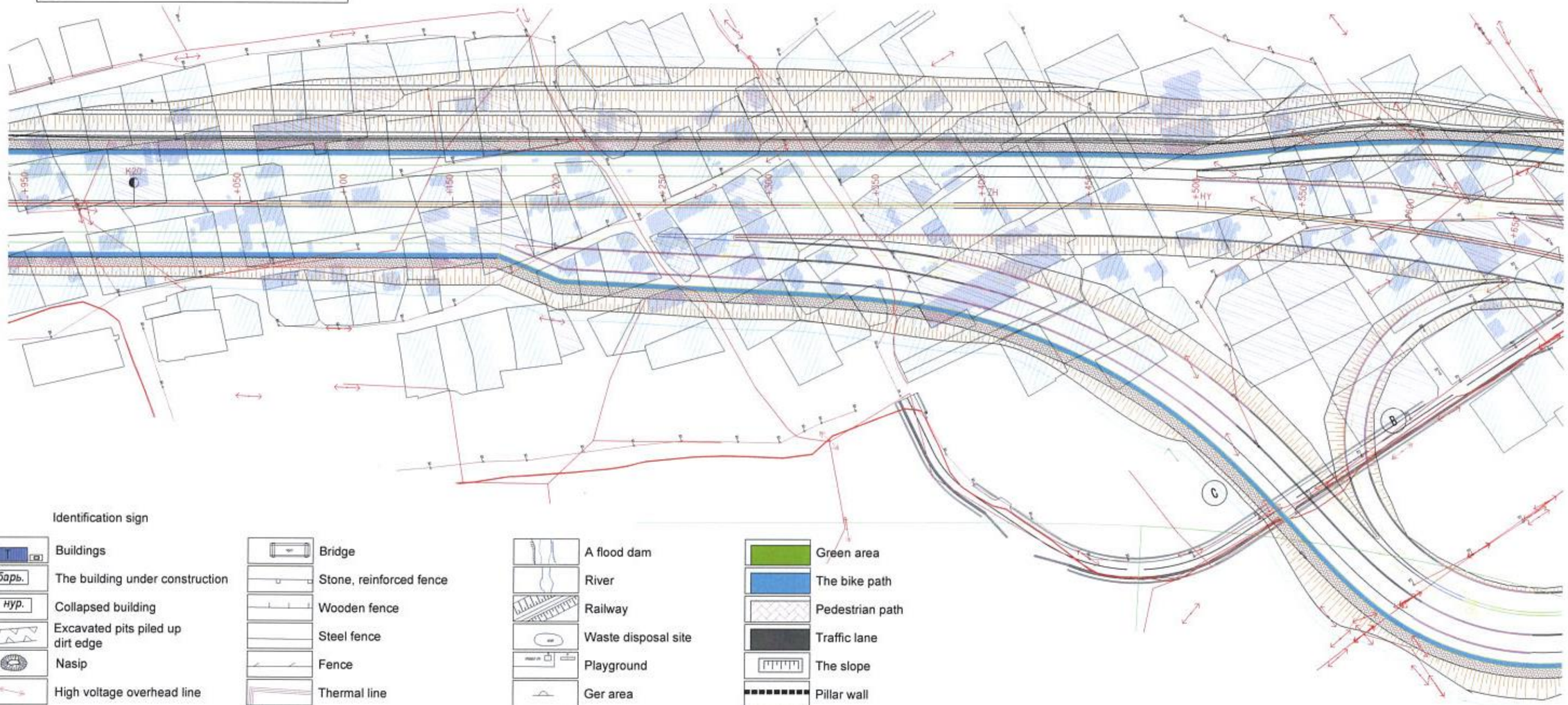
A study of the current situation				Master Des.	CaoYonXiang		Page ОБ-30
				Checked	L.Solongo		Date 2025.06
				Designed	B.Nyamlkhagva		

Position Thumbnail



	List of buildings affected by the planned road		
№	Building name	Unit of measure	Quantity
1	Land of ownership	m2	14368
2	Land of possession	m2	142826
3	Building	m2	9292
4	6-10 кВ cable	m	31



Identification sign

- Buildings
- The building under construction
- Collapsed building
- Excavated pits piled up dirt edge
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- High voltage overhead line
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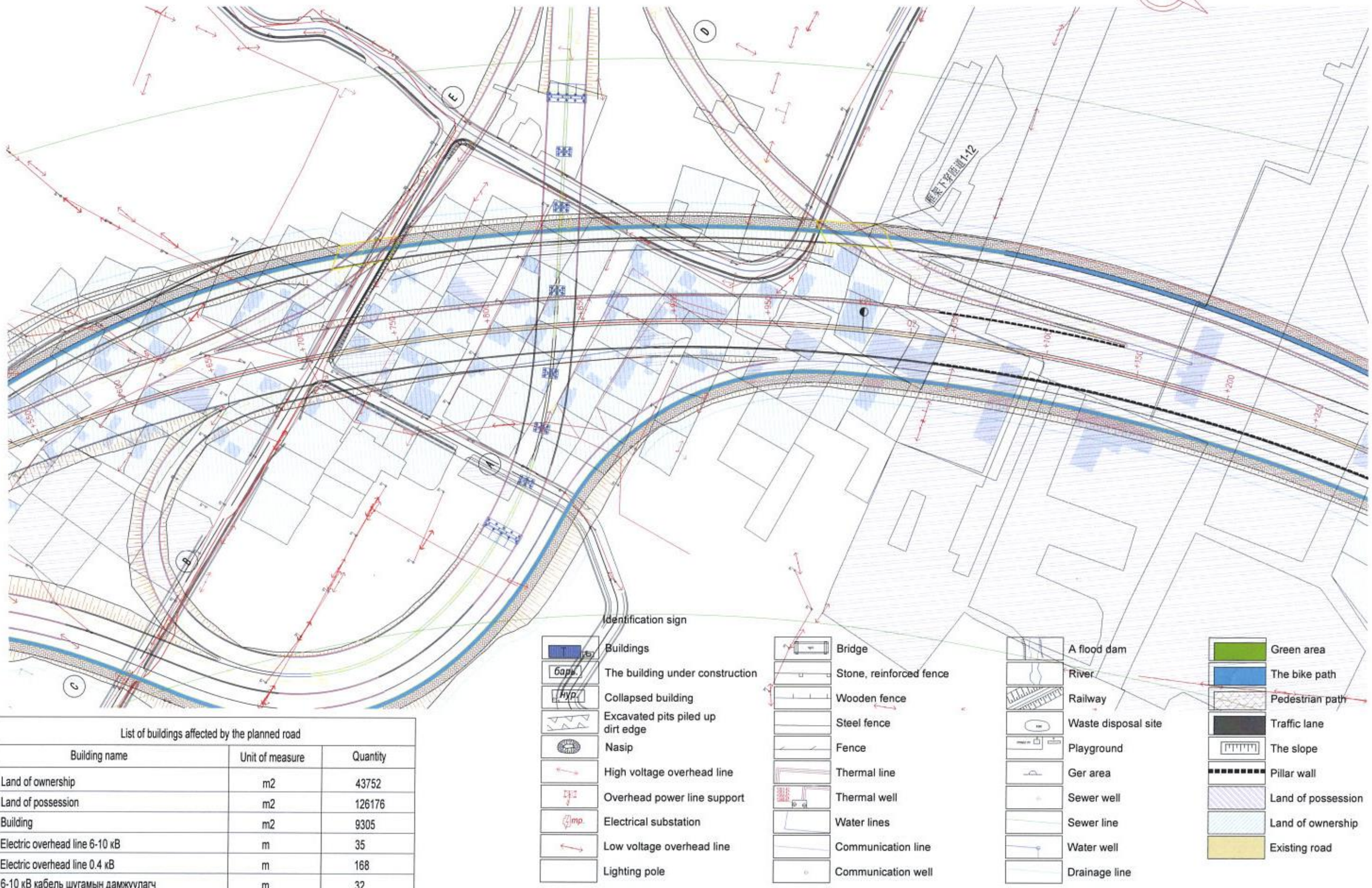
- Water well
- Drainage line
- Green area
- The bike path
- Pedestrian path
- Traffic lane
- The slope
- Pillar wall
- Land of possession
- Land of ownership
- Existing road



	List of buildings affected by the planned road		
№	Building name	Unit of measure	Quantity
1	Land of ownership	m2	43752
2	Land of possession	m2	126176
3	Building	m2	9305
4	Electric overhead line 6-10 кВ	m	35
5	Electric overhead line 0.4 кВ	m	168
6	6-10 кВ кабель шугамын дамжуулагч	m	32

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AVANTGARDE URAN
DESIGN & Engineering

The Feasibility Study and Concept Design of the 'First Ring Road' Project of Ulaanbaatar City

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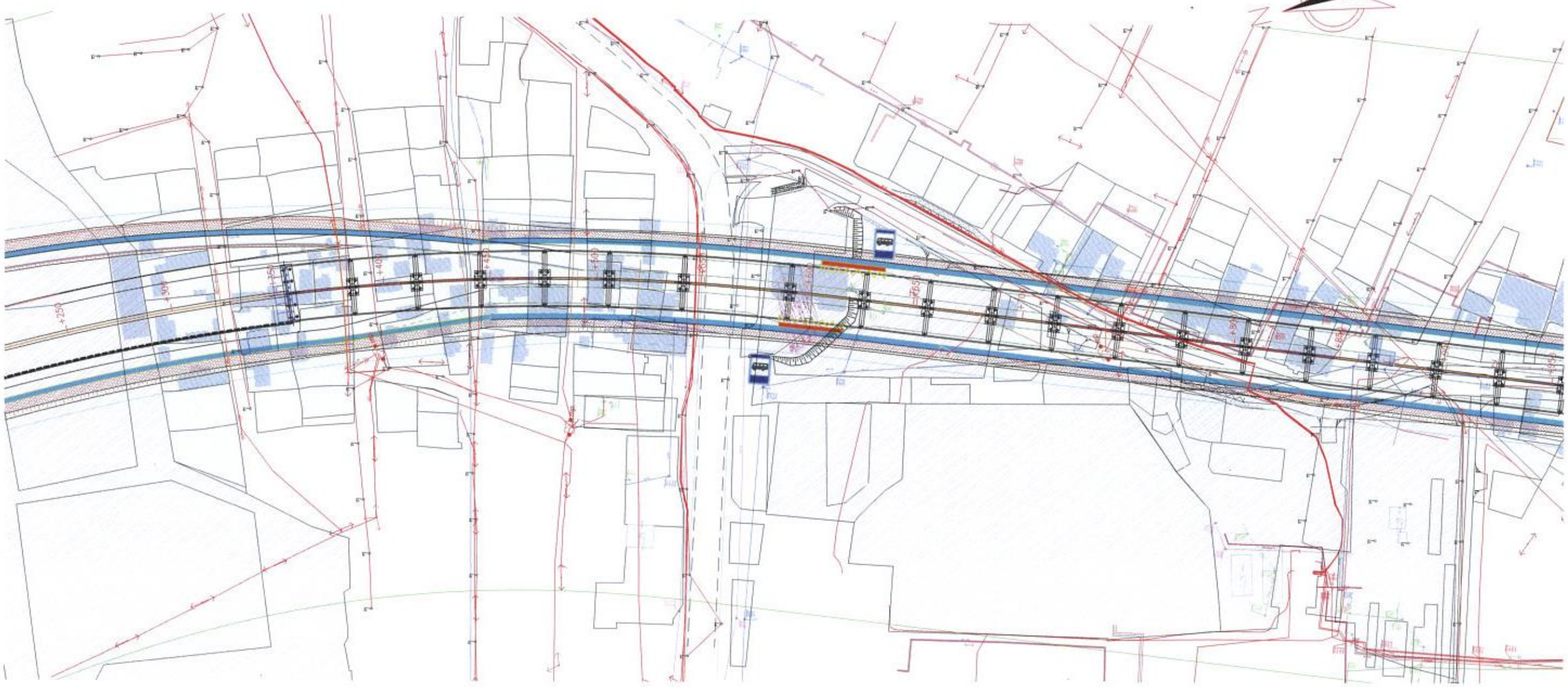
A study of the current situation				Master Des.	CaoYonXiang		Page	ОБ-32
				Checked	L.Solongo		Date	2025.06
				Designed	B.Nyamkhagva			



	List of buildings affected by the planned road		
№	Building name	Unit of measure	Quantity
1	Land of ownership	m2	37236
2	Land of possession	m2	87662
3	Building	m2	9653.5
4	Electric overhead line 6-10 кВ	m	24.2
5	Electric overhead line 0.4 кВ	m	17.2
6	Sewer line	m	6.2
7	Sewer well	p	2
8	Thermal well	p	6
9	Water line	m	88
10	Water well	p	12

Identification sign

- Buildings
- The building under construction (барь.)
- Collapsed building (нур.)
- Excavated pits piled up dirt edge
- Nasip
- High voltage overhead line
- Overhead power line support
- Electrical substation (тр.)
- Low voltage overhead line
- Lighting pole
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- Communication line
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- River
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- Ger area
- Sewer well
- Sewer line
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- Drainage line
- Green area
- The bike path
- Pedestrian path
- Traffic lane
- The slope
- Pillar wall
- Land of possession
- Land of ownership
- Existing road

中国市政工程西北设计研究院有限公司 CSCEC AECOM CONSULTANTS CO., LTD	AVANTGARDE URAN DESIGN & Engineering	The Feasibility Study and Concept Design of the 'First Ring Road' Project of Ulaanbaatar City	Stage	Technical Drawings	Project No	10-2024-2509	Des.Manager	Pang Wei
			A study of the current situation				Master Des.	CaoYonXiang
							Checked	L.Solongo
							Designed	B.Nyamikhagva

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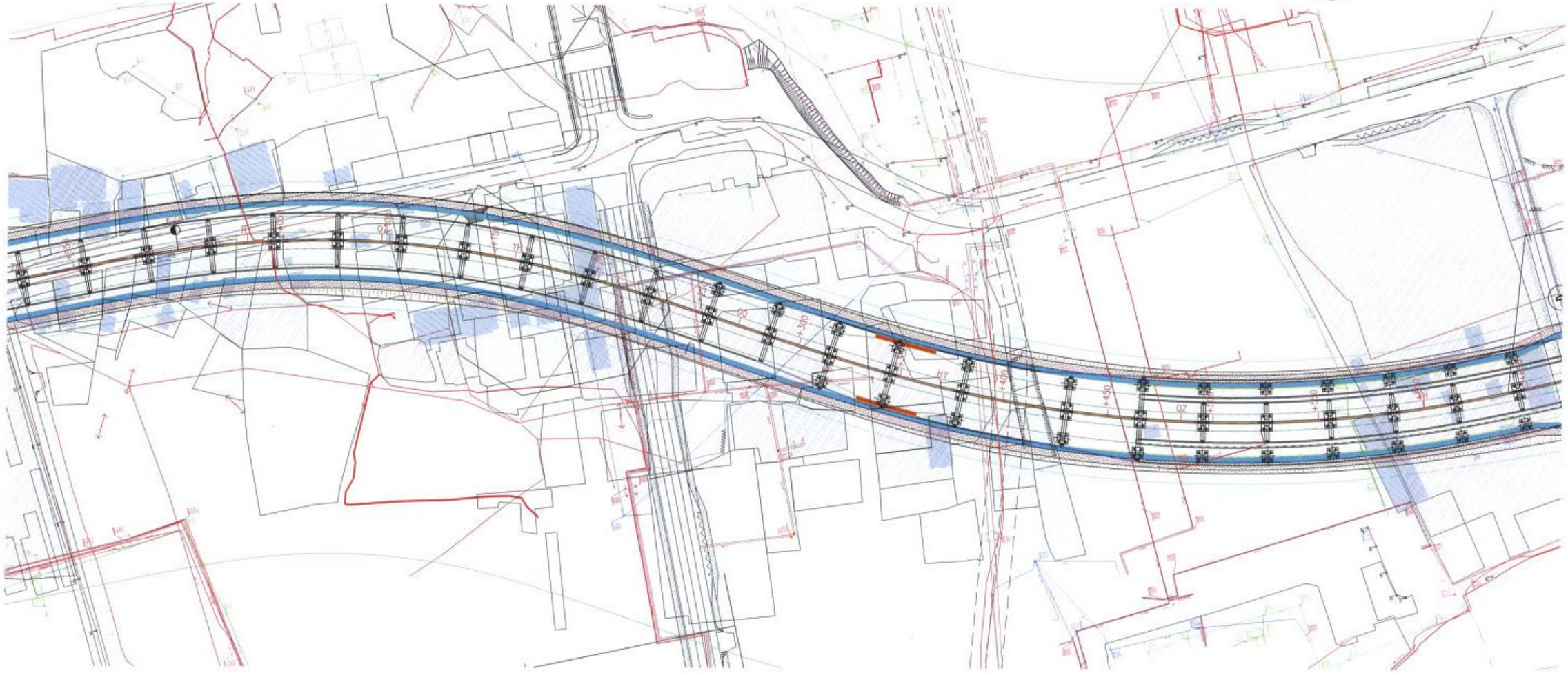

Identification sign

- Buildings
- The building under construction
- Collapsed building
- Excavated pits piled up dirt edge
- Nasip
- High voltage overhead line
- Overhead power line support
- Electrical substation
- Low voltage overhead line
- Lighting pole
- Bridge
- Stone, reinforced fence
- Wooden fence
- Steel fence
- Fence
- Thermal line
- Thermal well
- Water lines
- Communication line
- Communication well
- A flood dam
- River
- Railway
- Waste disposal site
- Playground
- Ger area
- Sewer well
- Sewer line
- Water well
- Drainage line
- Green area
- The bike path
- Pedestrian path
- Traffic lane
- The slope
- Pillar wall
- Land of possession
- Land of ownership
- Existing road

List of buildings affected by the planned road

№	Building name	Unit of measure	Quantity
1	Land of ownership	m2	21937
2	Land of possession	m2	32552
3	Building	m2	5525
4	Electric overhead line 6-10 кВ	m	24.2
5	Electric overhead line 0.4 кВ	m	17.2
6	Road	m2	9.2
7	Water line	m	44

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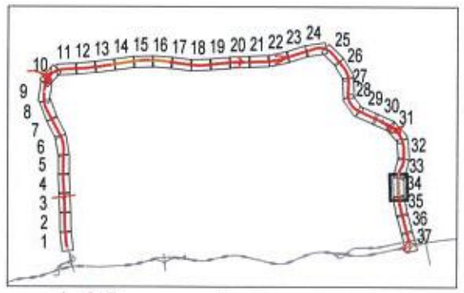
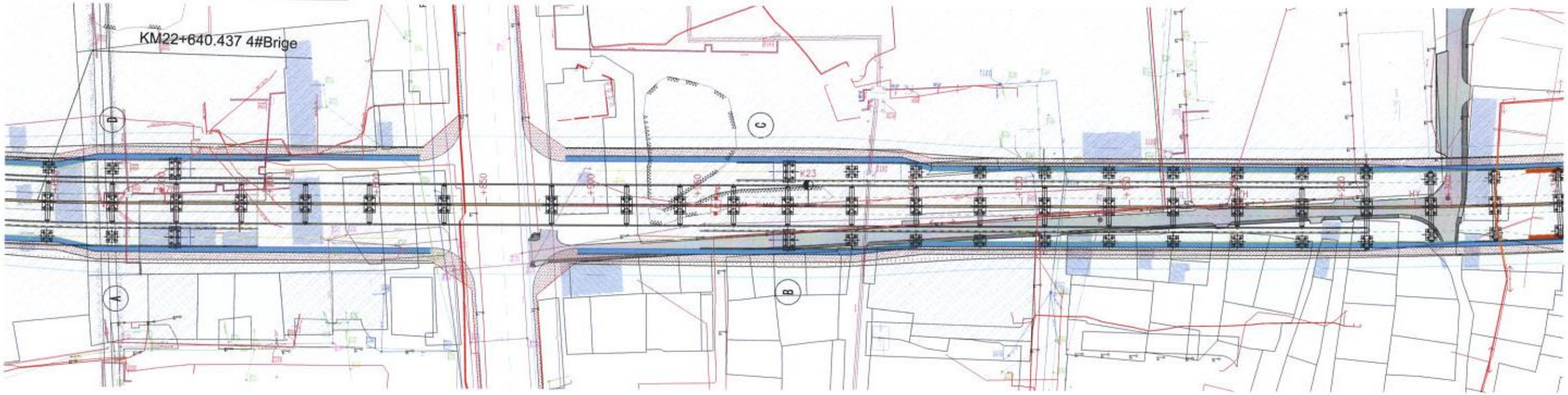
AVANTGARDE URAN
DESIGN & Engineering

The Feasibility Study and Concept Design of the 'First Ring Road' Project of Ulaanbaatar City

Stage	Technical Drawings	Project No	10-2024-2509	Des.Manager	Pang Wei		Scale	1:2000
A study of the current situation				Master Des.	CaoYonXiang		Page	ОБ-34
				Checked	L.Solongo		Date	2025.06
				Designed	B.Nyamlkhagva			

Position Thumbnail





	List of buildings affected by the planned road		
№	Building name	Unit of measure	Quantity
1	Land of ownership	m2	14368
2	Land of possession	m2	142826
3	Building	m2	3870
4	Electric overhead line 6-10 кВ	m	11.3
5	Electric overhead line 0.4 кВ	m	40.6
6	Electric high voltage underground line	m	5
7	Sewer line	m	36.9
8	Sewer well	p	6
9	Thermal line	m	603.0
10	Communication line	m	32
11	Communication well	p	15
12	Water well	p	3
13	Water line	m	39

Identification sign

- Buildings
- The building under construction (барь.)
- Collapsed building (нур.)
- Excavated pits piled up dirt edge
- Nasip
- High voltage overhead line
- Overhead power line support
- Electrical substation (тр.)
- Low voltage overhead line
- Lighting pole
- Bridge
- Stone, reinforced fence
- Wooden fence
- Steel fence
- Fence
- Thermal line
- Thermal well
- Water lines
- Communication line
- Communication well
- A flood dam
- River
- Railway
- Waste disposal site
- Playground
- Ger area
- Sewer well
- Sewer line
- Water well
- Drainage line
- Green area
- The bike path
- Pedestrian path
- Traffic lane
- The slope
- Pillar wall
- Land of possession
- Land of ownership
- Existing road

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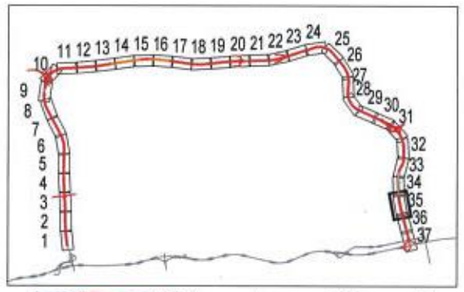
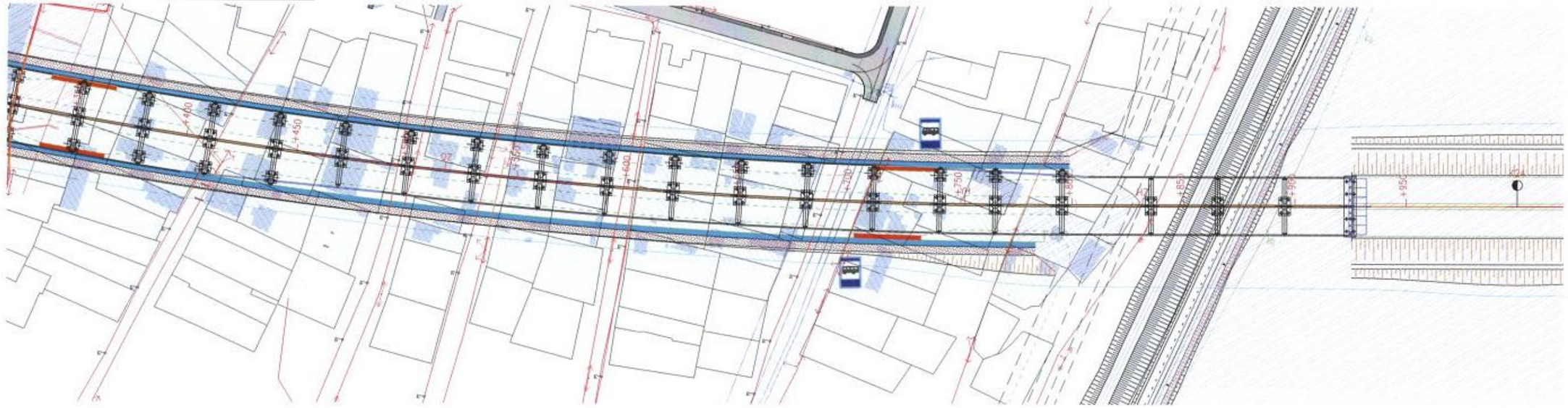
				Checked	L.Solongo		Date 2025.06
				Designed	B.NyamIkhagva		

Position Thumbnail





	List of buildings affected by the planned road		
№	Building name	Unit of measure	Quantity
1	Land of ownership	m2	72504
2	Land of possession	m2	269356
3	Building	m2	6137.7
4	Electric overhead line 6-10 кВ	m	11.3
5	Electric overhead line 0.4 кВ	m	29.7
6	Electric high voltage underground line	m	276.0
7	Sewer line	m	8
8	Sewer well	p	1
9	Road	m2	55
10	Water line	m	24

Identification sign

- Buildings
- The building under construction (барь.)
- Collapsed building (нур.)
- Excavated pits piled up dirt edge
- Nasip
- High voltage overhead line
- Overhead power line support
- Electrical substation (imp.)
- Low voltage overhead line
- Lighting pole
- Bridge
- Stone, reinforced fence
- Wooden fence
- Steel fence
- Fence
- Thermal line
- Thermal well
- Water lines
- Communication line
- Communication well
- A flood dam
- River
- Railway
- Waste disposal site
- Playground
- Ger area
- Sewer well
- Sewer line
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- Drainage line
- Green area
- The bike path
- Pedestrian path
- Traffic lane
- The slope
- Pillar wall
- Land of possession
- Land of ownership
- Existing road

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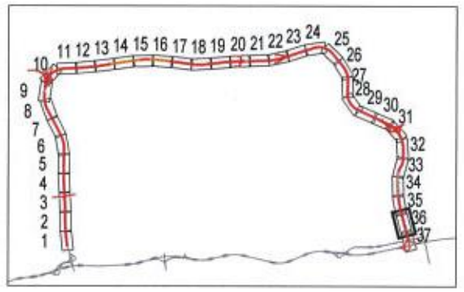
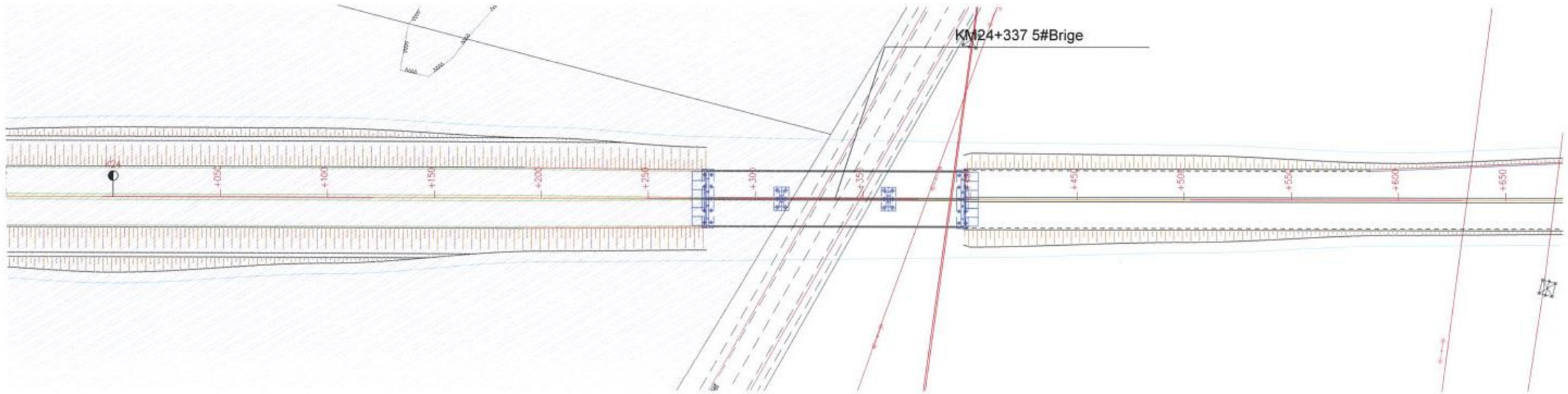
				Checked	L.Solongo		Date 2025.06
				Designed	B.Nyamlkhagva		

Position Thumbnail





Identification sign

Buildings	Bridge	A flood dam	Green area
The building under construction	Stone, reinforced fence	River	The bike path
Collapsed building	Wooden fence	Railway	Pedestrian path
Excavated pits piled up dirt edge	Steel fence	Waste disposal site	Traffic lane
Nasip	Fence	Playground	The slope
High voltage overhead line	Thermal line	Ger area	Pillar wall
Overhead power line support	Thermal well	Sewer well	Land of possession
Electrical substation	Water lines	Sewer line	Land of ownership
Low voltage overhead line	Communication line	Water well	Existing road
Lighting pole	Communication well	Drainage line	

List of buildings affected by the planned road

№	Building name	Unit of measure	Quantity
1	Water supply line	m	0
2	Road	m2	6.2
3	Electric overhead line 6-10 кВ	m	5.7

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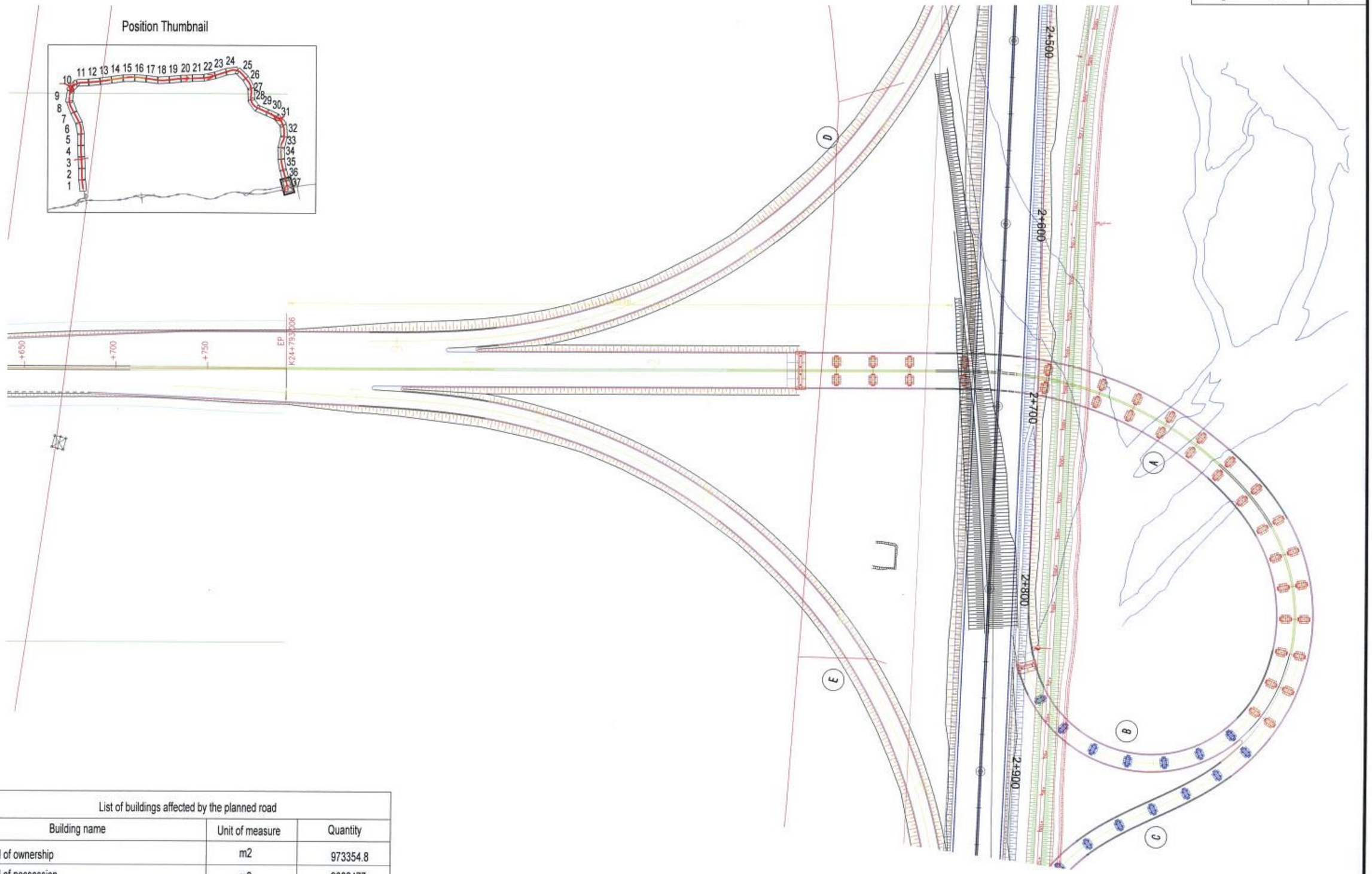
				Checked	L.Solongo		Date 2025.06
				Designed	B.Nyamkhagva		



	List of buildings affected by the planned road		
№	Building name	Unit of measure	Quantity
1	Land of ownership	m2	973354.8
2	Land of possession	m2	2062477
3	Building	m2	227023.14

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				Checked	L.Solongo			
				Designed	B.Nyamikhagva		Date	2025.06