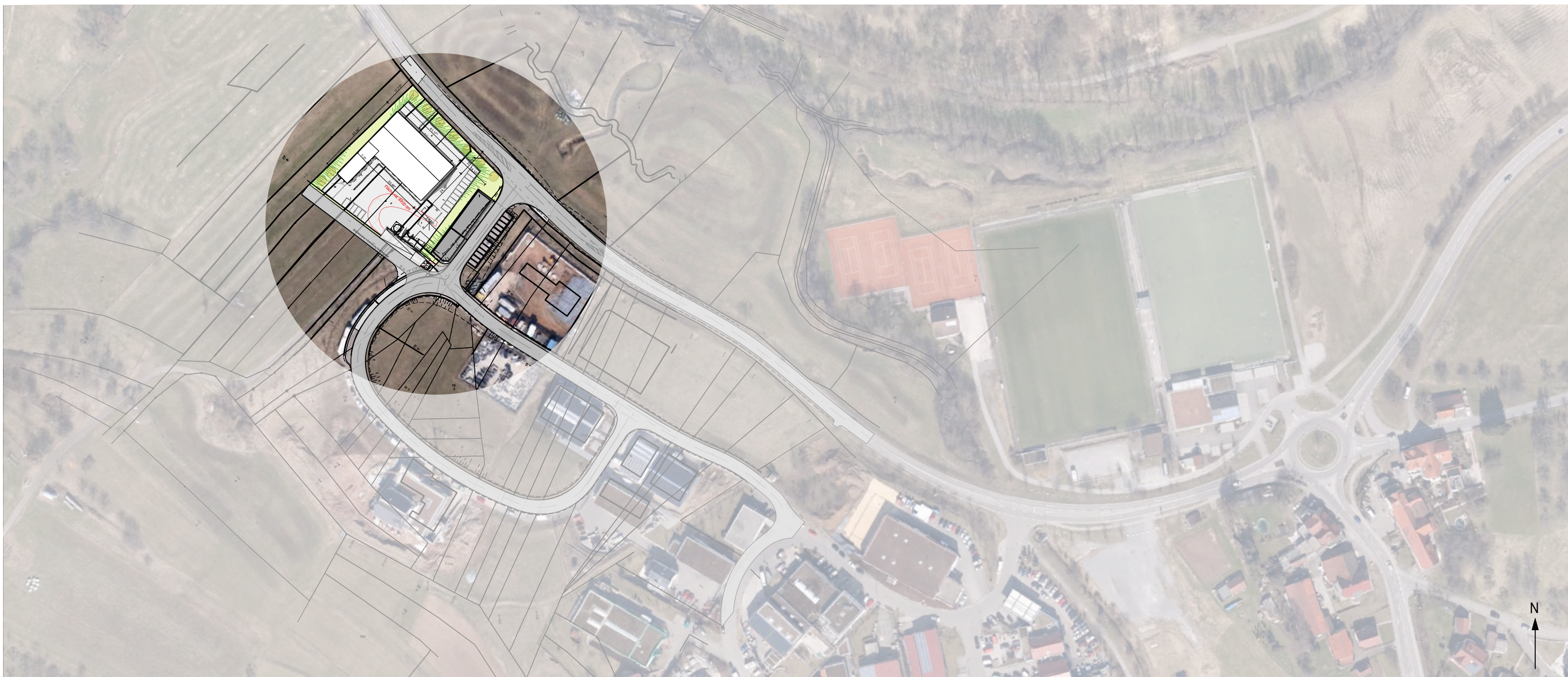


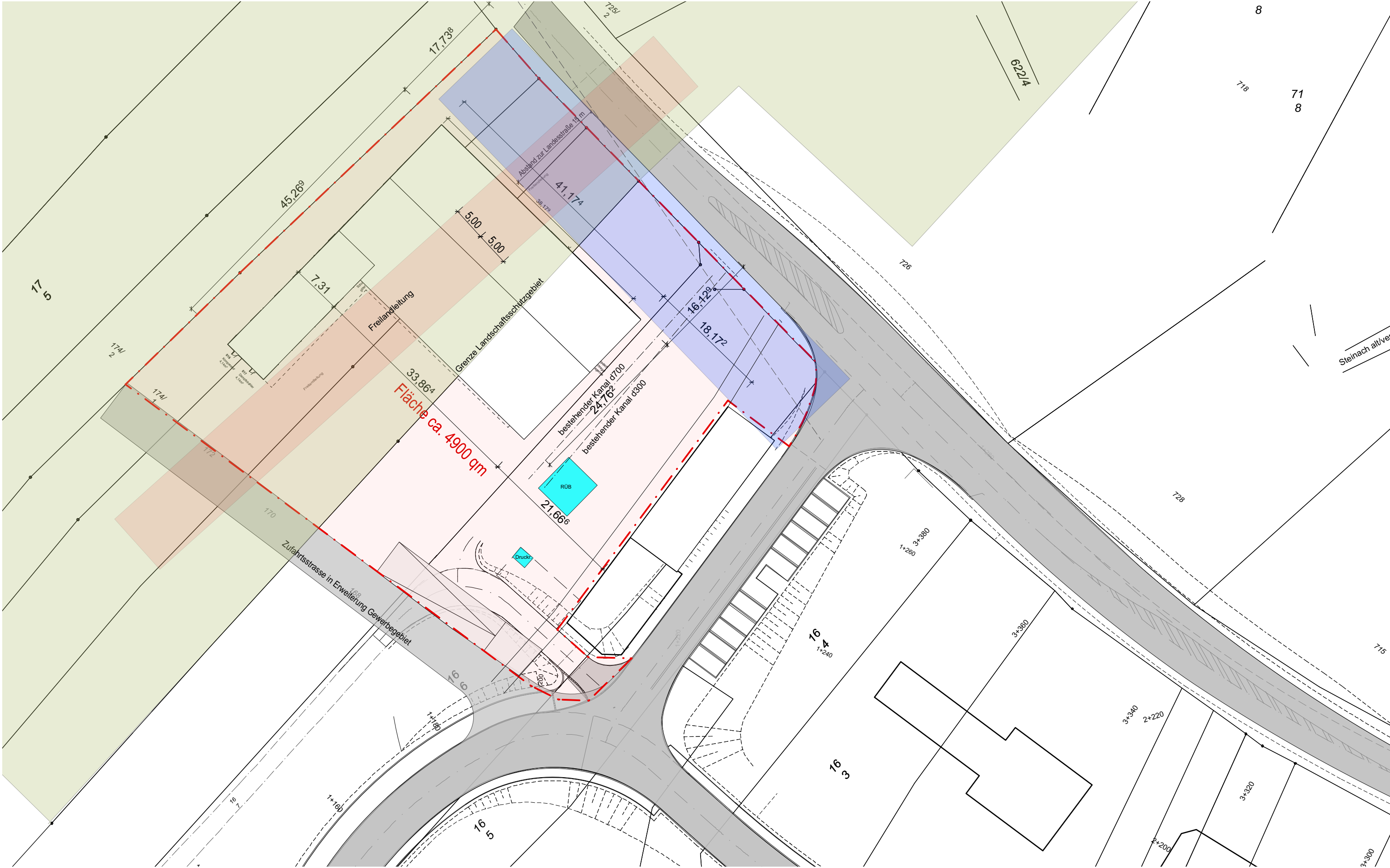
Architekten
Partnerschaft
Stuttgart

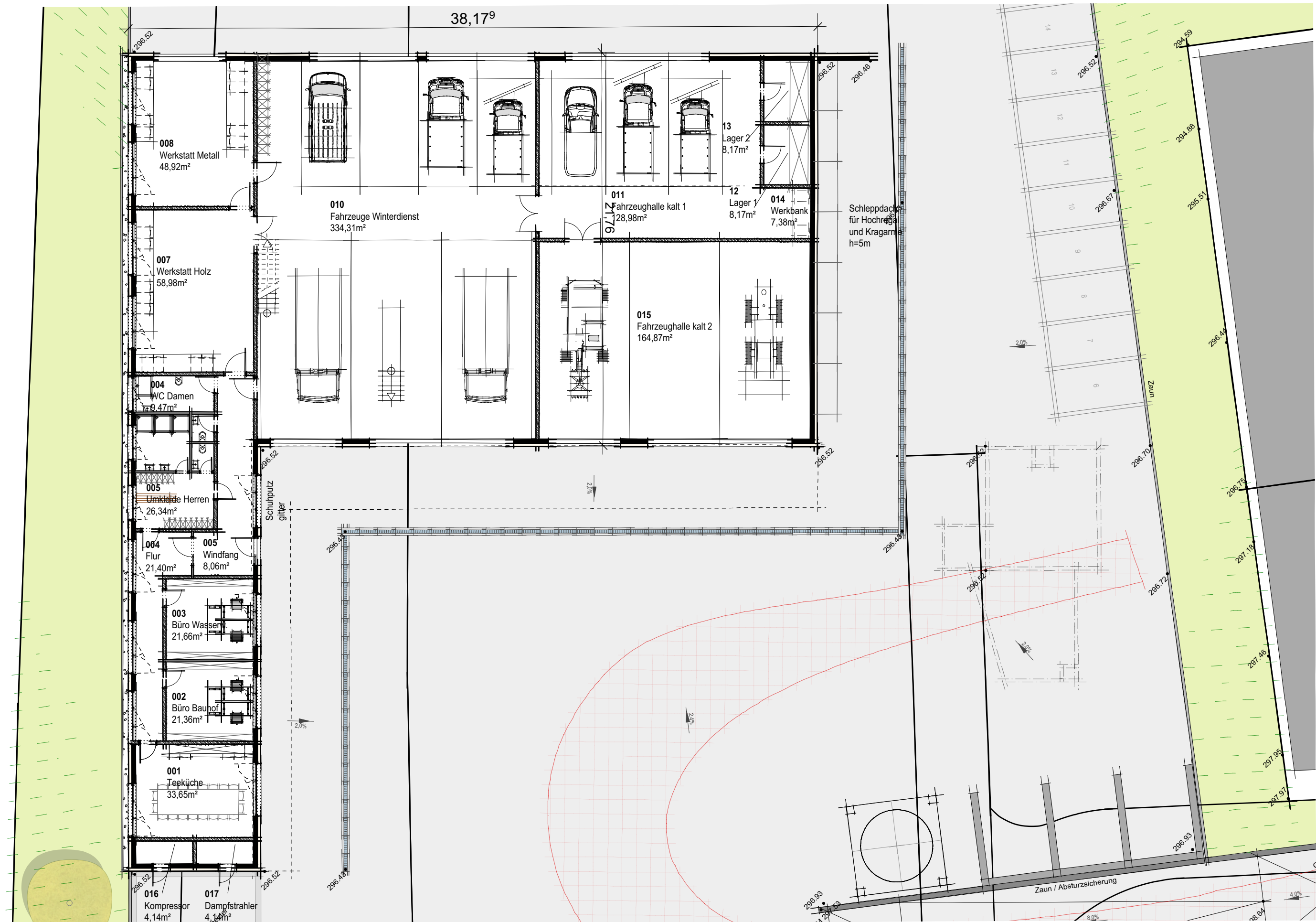
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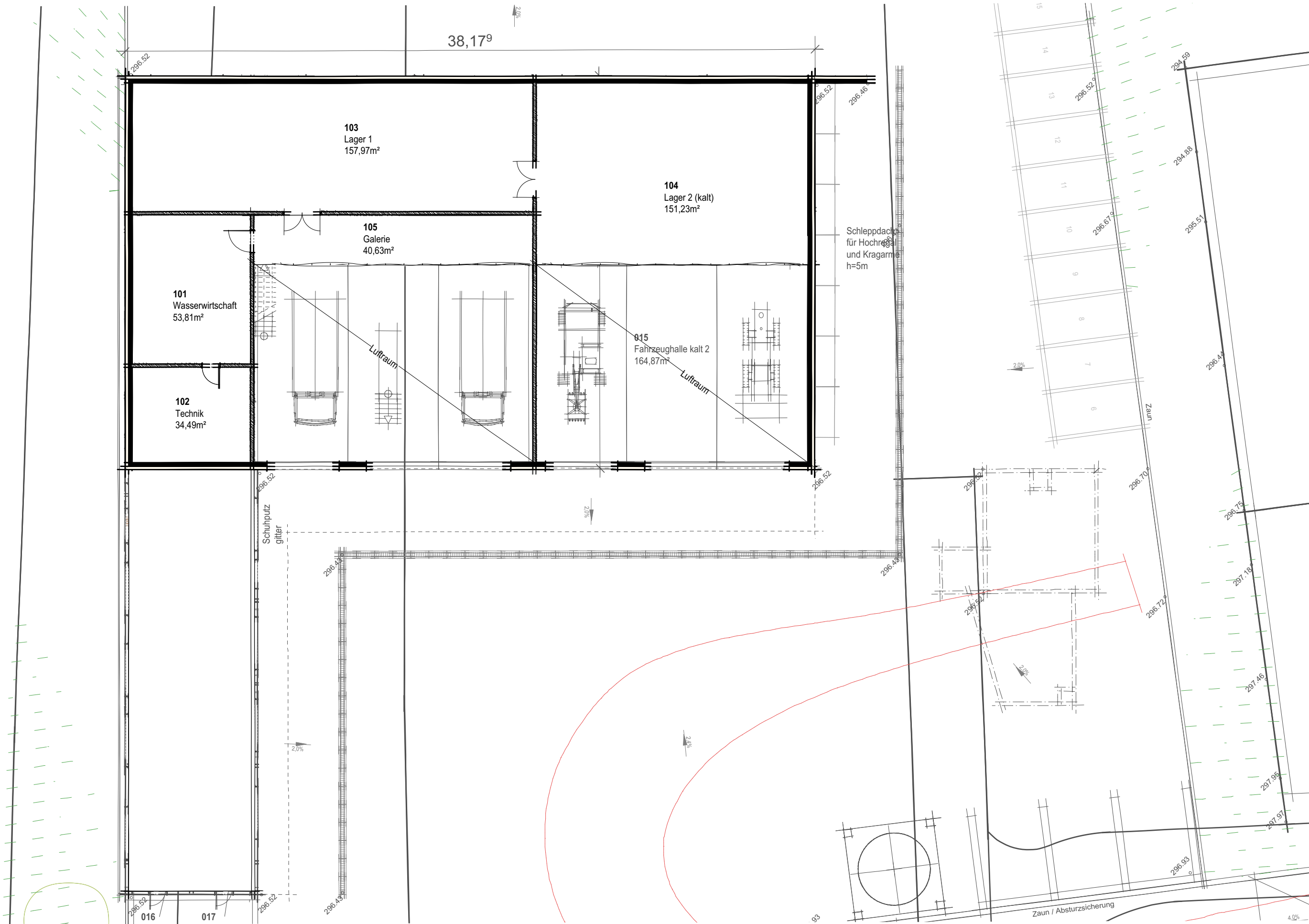
Machbarkeitsstudie Bauhof Berglen

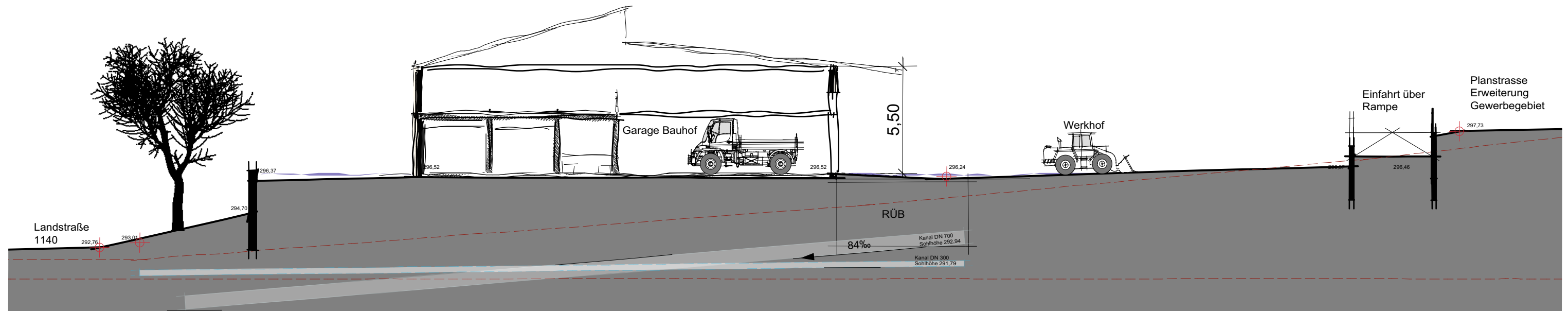




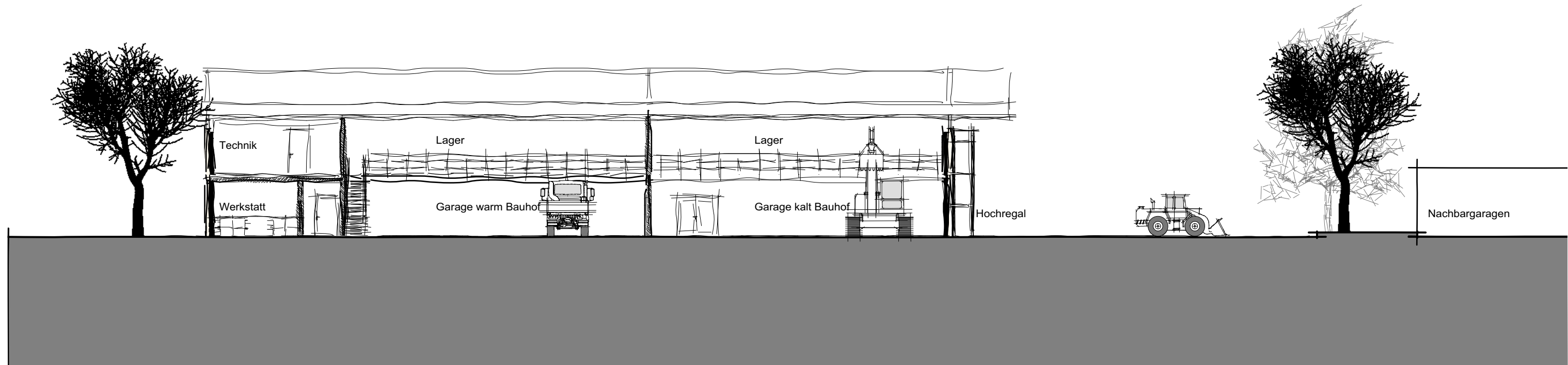


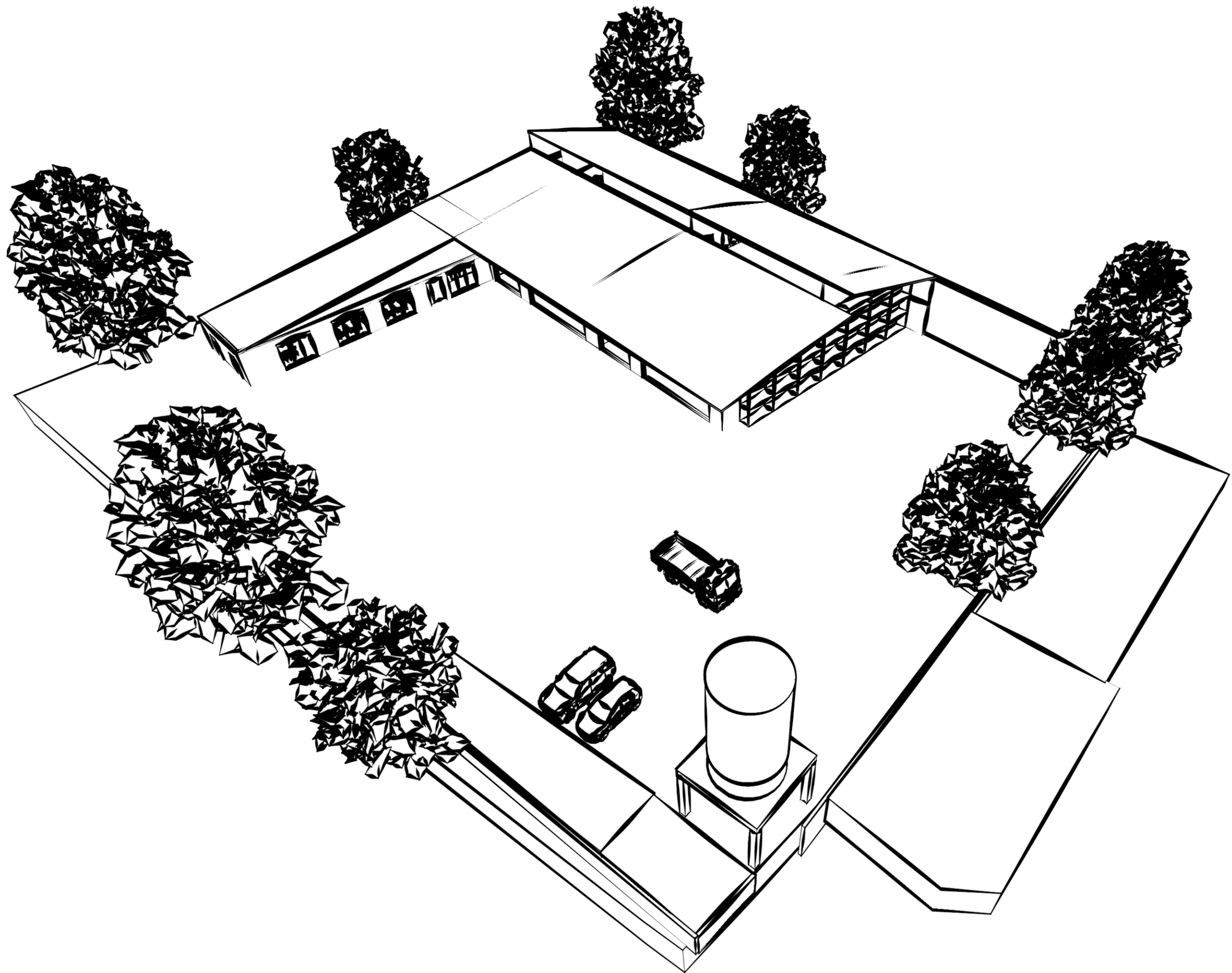


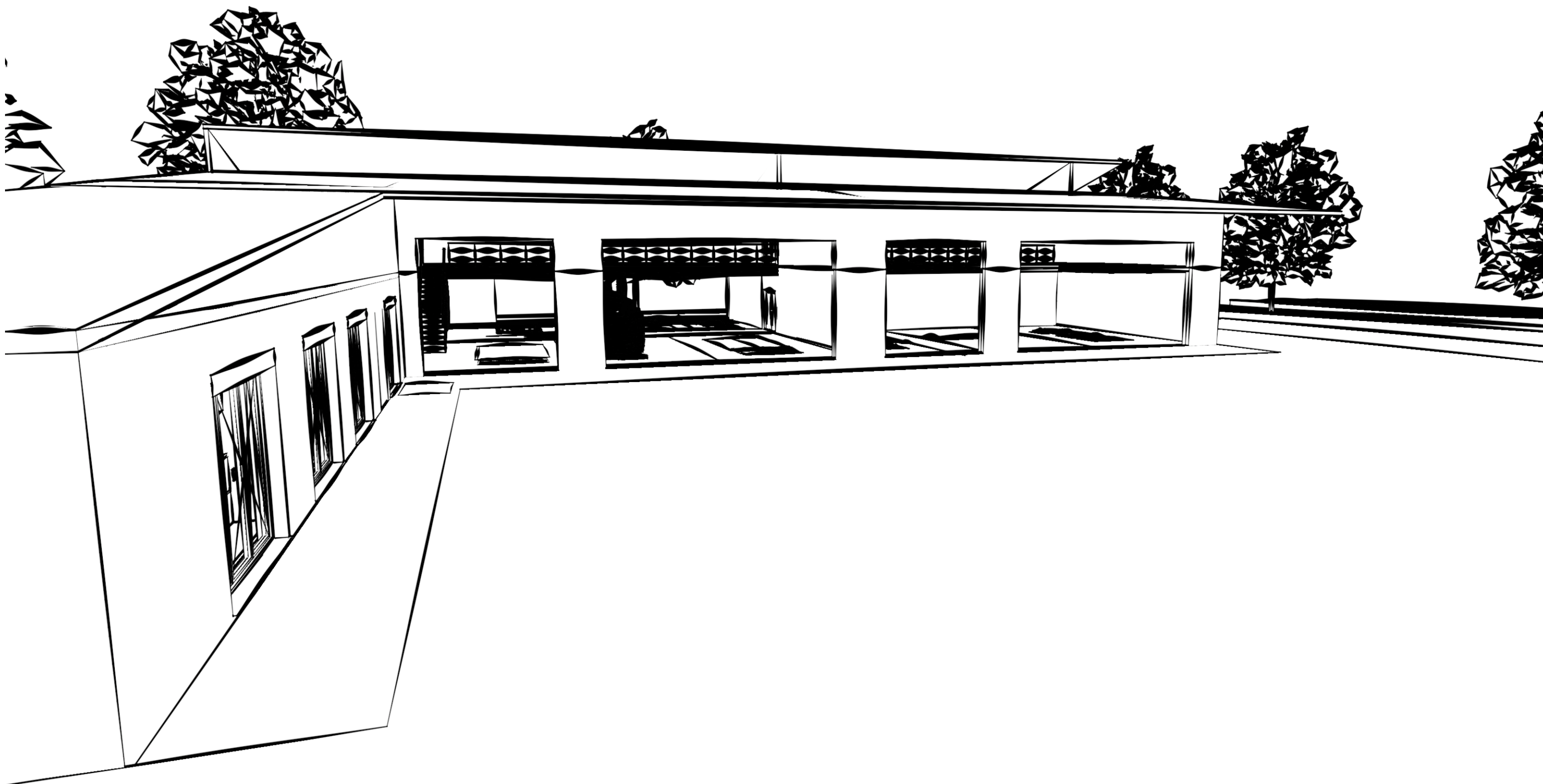


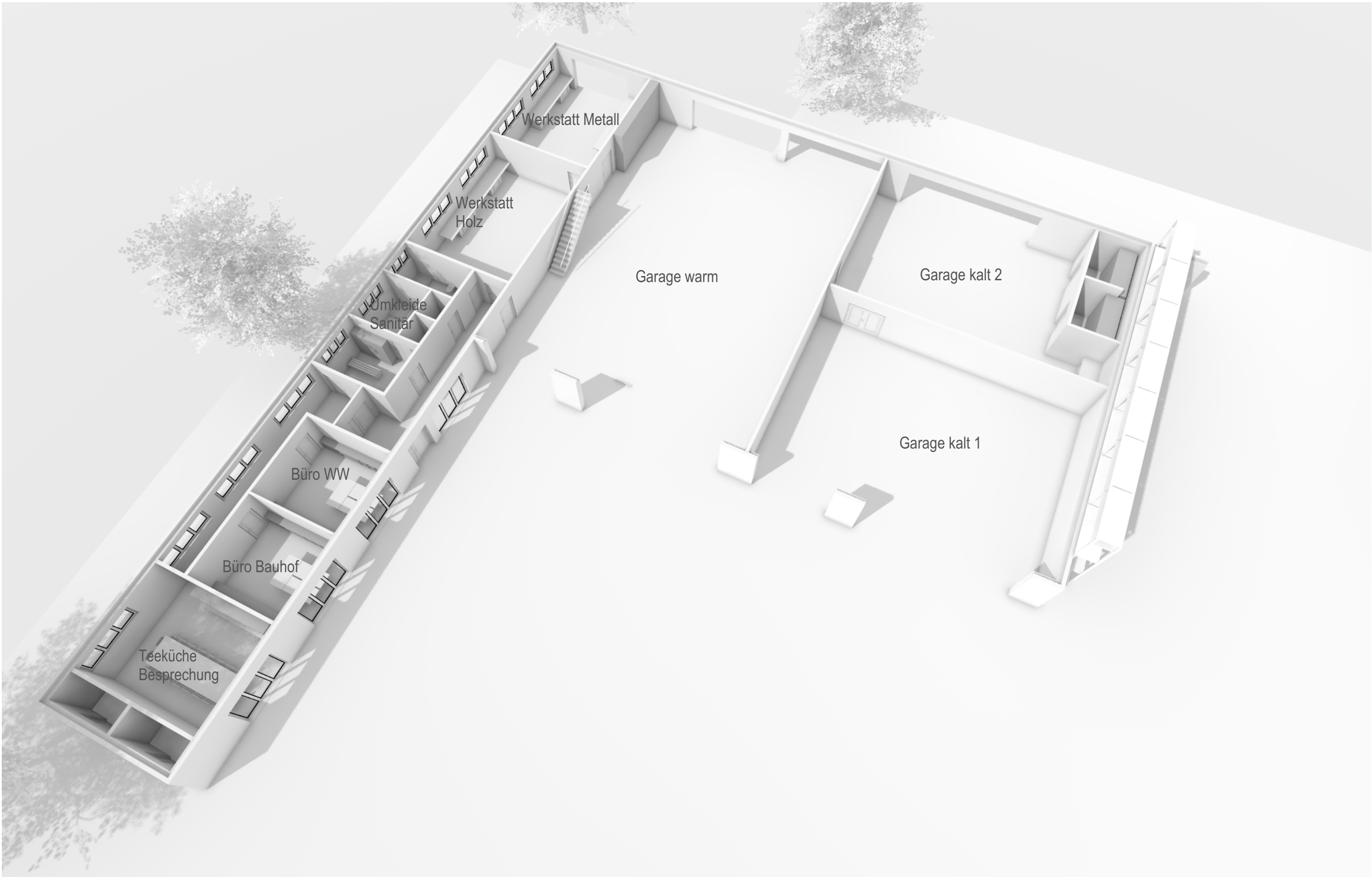


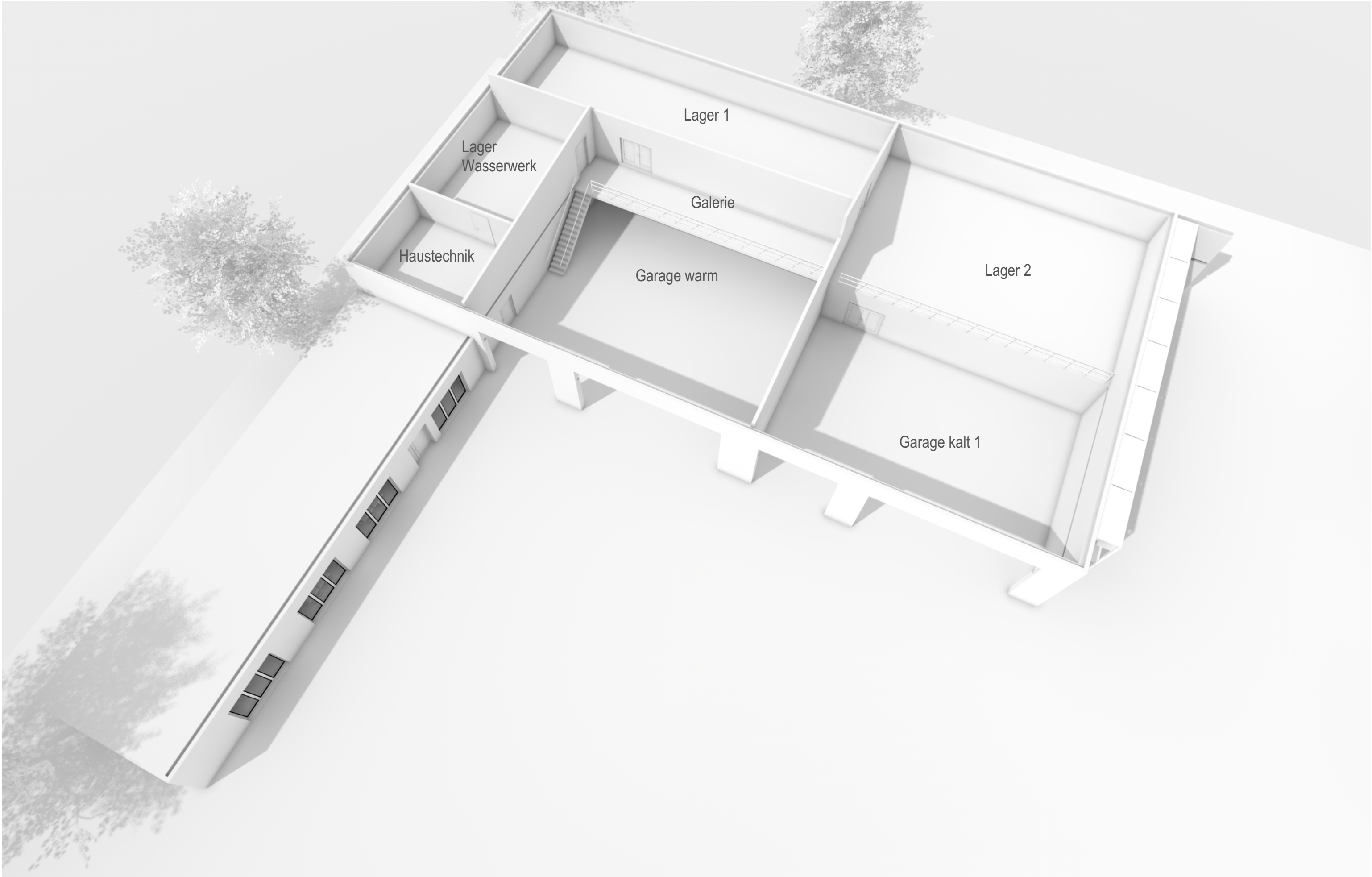
Schnitt M1:200

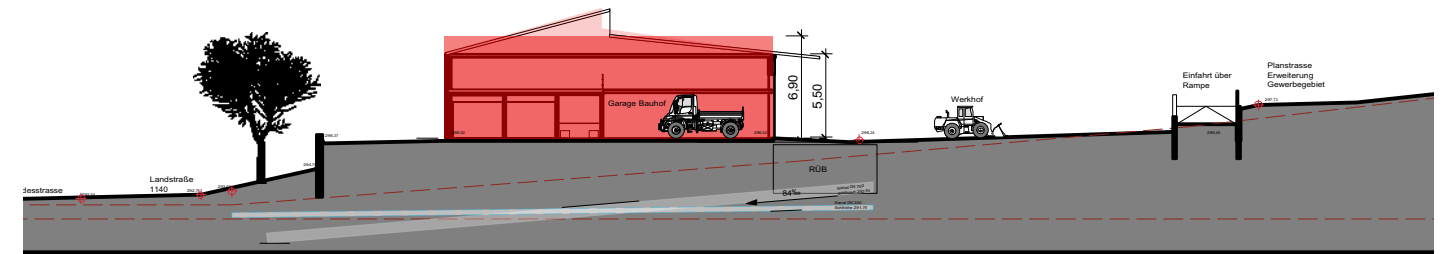
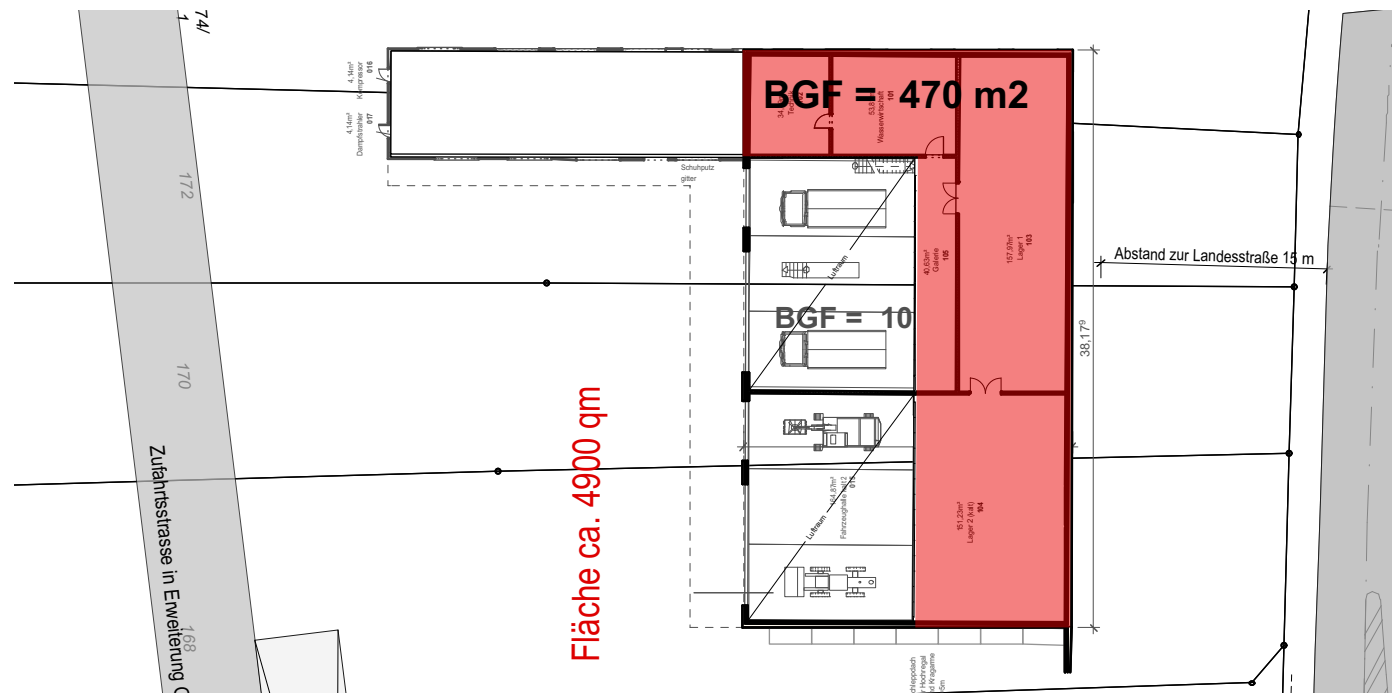
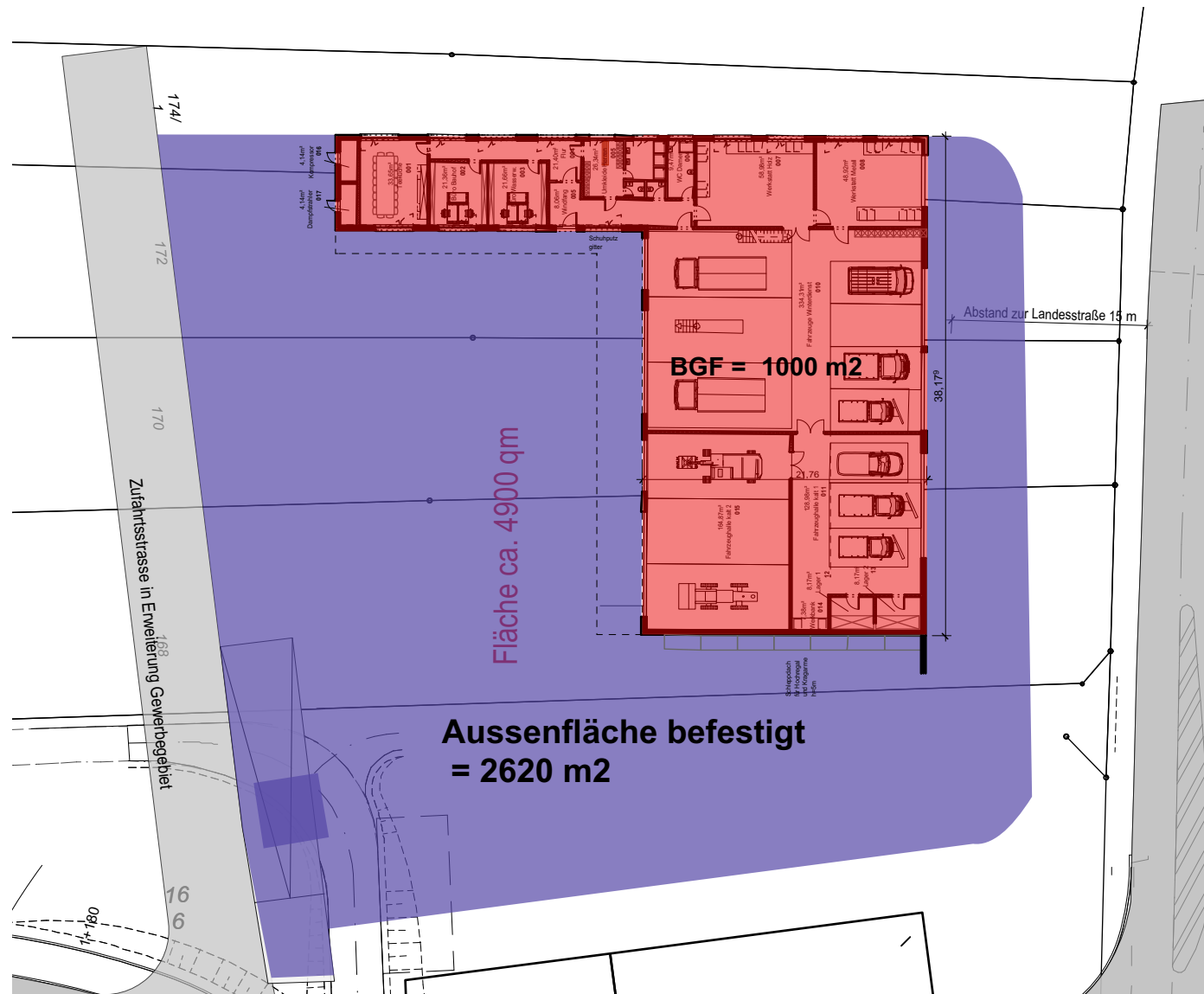












Bauhof Berglen Massenermittlung :

$$\begin{aligned} \text{BGF} &= 1000\text{m}^2 (\text{EG}) + 470 \text{ m}^2 (\text{OG}) = 1470 \text{ m}^2 \\ \text{BRI} &= 835 \text{ m}^2 \times 6,90 \text{ m} + 165\text{m}^2 \times 4,20 \text{ m} = 6455 \text{ m}^3 \end{aligned}$$

$$\begin{aligned} \text{Hüllfläche} &= 167 \text{ m (Umfang)} \times 5,50 \text{ m} = 918 \text{ m}^2 \\ \text{Dachfläche} &= 1000 \text{ m}^2 \\ \text{Dachoberlicht} &= 35 \text{ m} \times 1 \text{ m} = 35 \text{ m}^2 \end{aligned}$$

Tore : 8 Sektionaltore 3x(4x4m) / 2x(6mx4m) / 3x(8mx4m)

Aussenanlagen :

$$\begin{aligned} \text{Fläche gesamt} &= 4685 \text{ m}^2 \\ \text{befestigte Fläche} &= 2580 \text{ m}^2 \end{aligned}$$

Stützwände für Geländeabfangung

$$\begin{aligned} \text{Untere Stützmauer} &60\text{m} \times 2,00\text{m} = 120 \text{ m}^2 \\ \text{Obere Stützmauer} &75\text{m} \times 3,10\text{m} = 232,5\text{m}^2 \\ \text{Rampe} &30\text{m} \times 1,40\text{m} = 42 \text{ m}^2 \end{aligned}$$

$$\text{Stützmauern gesamt} = 394,5\text{m}^2$$

bewegtes Erdreich Grobschätzung

$$\text{Oberboden} = 3580 \times 0,3 = 1074 \text{ m}^3$$

$$\begin{aligned} \text{Abtrag mit Oberboden} &1852,25 \text{ m}^3 \text{ (ermittelt über Geländemodell)} \\ \text{Abtrag ohne Oberboden} &1852,25 - 1074 = 778,25\text{m}^3 \\ \text{Auftrag} &2937,91 \text{ m}^3 \text{ (ermittelt über Geländemodell)} \end{aligned}$$

$$\text{Zusätzlich benötigtes Material} 2937,91\text{m}^3 - 778,25 = 2159,66 \text{ m}^3$$

