
















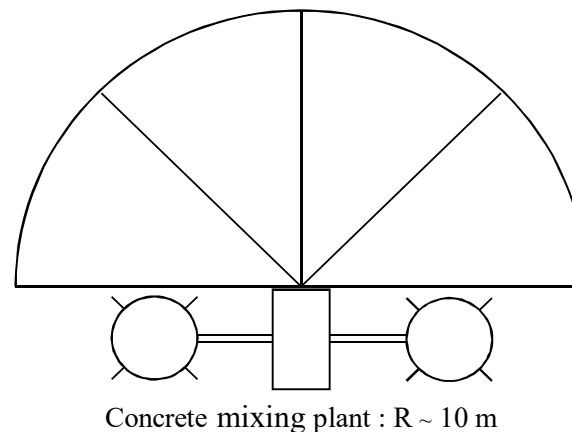


Studio Work

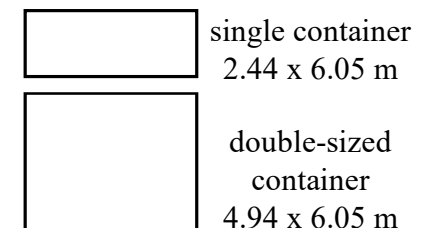
Developing a General Site Layout Design (Legend and Needs)

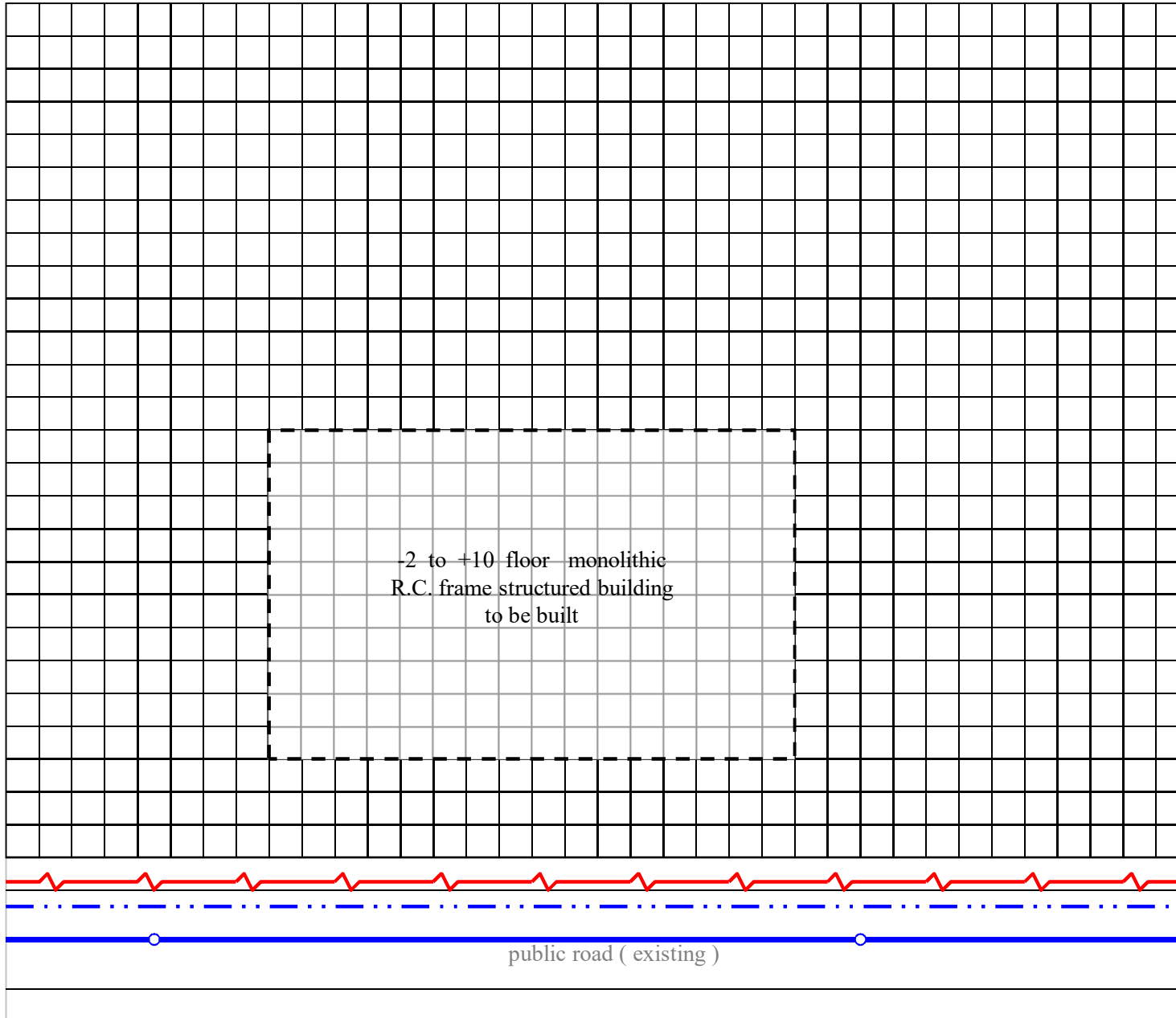
Temporary water supply and sewer system	
Water supply line	
Water nozzle with hose coupler	
Water meter with isolator valve	
Well with hydrophore	
Isolator valve	
Sedimentation tank	
Temporary sewer line	
Existing public sewer line	
Temporary electric power supply	
High-voltage (primary) transmission line	
High-voltage (secondary) transmission line	
Buried cable	
Rubber cable	
Electric junction box with fuse block	
Lamp / lamp post	
Cable post	
Service box with main switch	
Transformer station with electric meter	



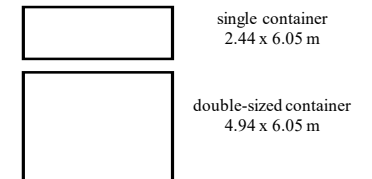
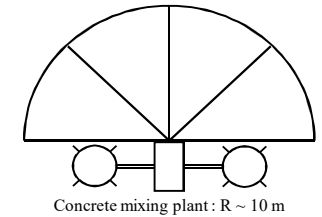
Timber yard : 200 – 220 m²

Steel yard : 350 – 400 m²

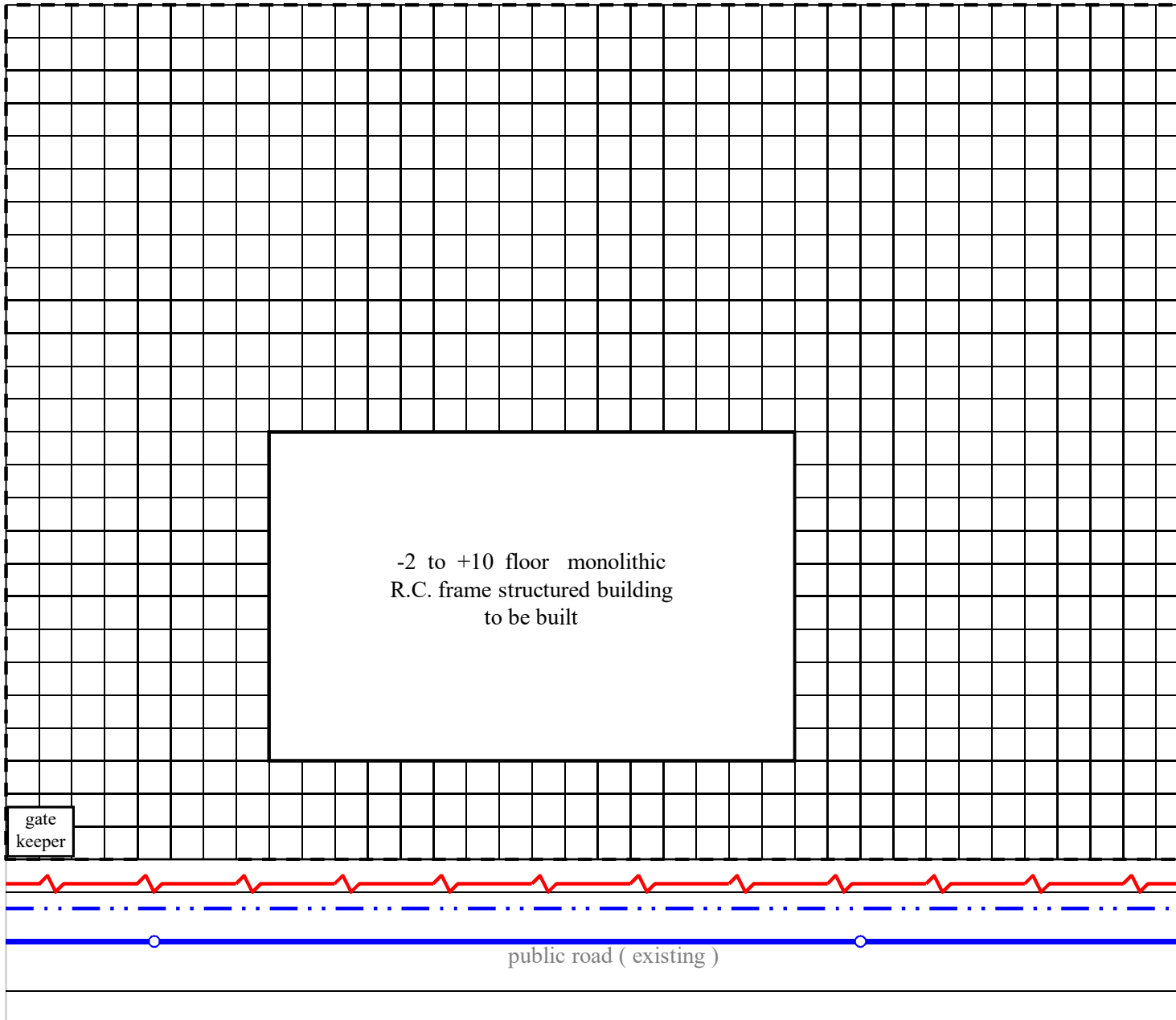




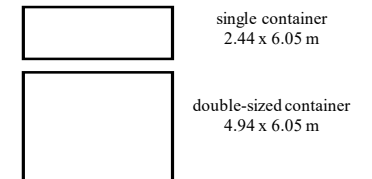
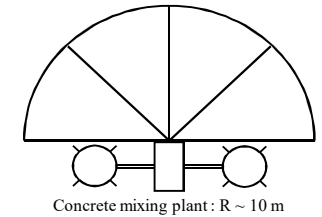
Temporary water supply and sewer system	
Water supply line	— ·
Water nozzle with hose coupler	↑
Water meter with isolator valve	⊠
Well with hydrophore	⊙ ⊠
Isolator valve	⚡
Sedimentation tank	⊠
Temporary sewer line	→
Existing public sewer line	↔
Temporary electric power supply	
High-voltage (primary) transmission line	⚡
High-voltage (secondary) transmission line	⚡
Buried cable	—
Rubber cable	⚡
Electric junction box with fuse block	⊠
Lamp / lamp post	⚡
Cable post	⊙
Service box with main switch	⊠
Transformer station with electric meter	⊠



Developing Concept
 STEP 0
 Site Survey Report
 (Grid Size 2x2 m)

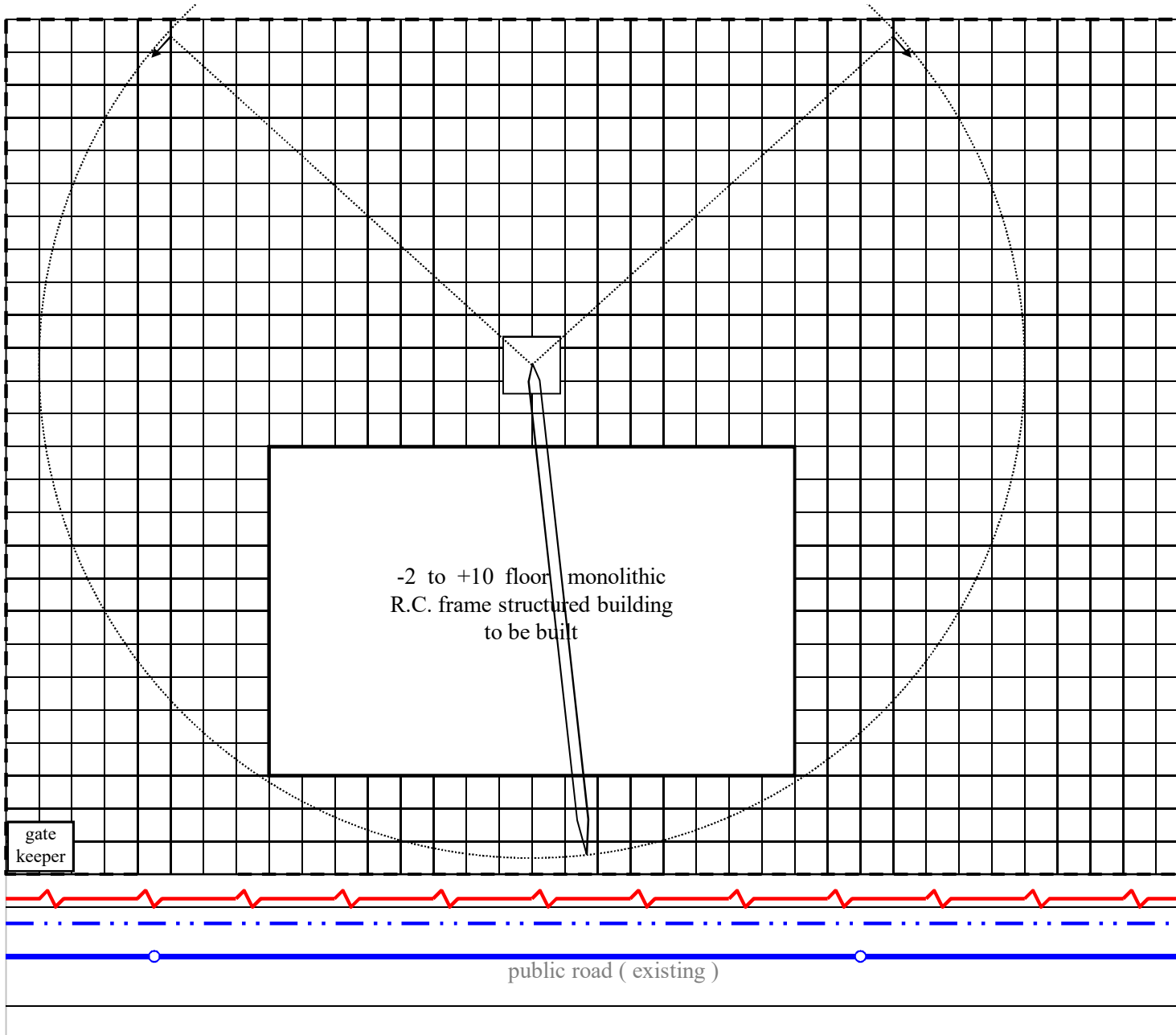


Temporary water supply and sewer system	
Water supply line	— ·
Water nozzle with hose coupler	↯
Water meter with isolator valve	⊠
Well with hydrophore	⊙ ⊠
Isolator valve	↯
Sedimentation tank	⊠
Temporary sewer line	→
Existing public sewer line	↯
Temporary electric power supply	
High-voltage (primary) transmission line	⚡
High-voltage (secondary) transmission line	⚡
Buried cable	—
Rubber cable	⚡
Electric junction box with fuse block	⊠
Lamp / lamp post	⚡
Cable post	⊙
Service box with main switch	⊠
Transformer station with electric meter	⊠

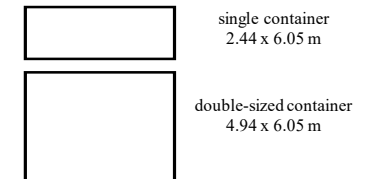
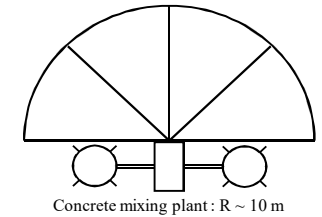


Developing Concept
 STEP 1

Getting the Site
 (isolation/access)

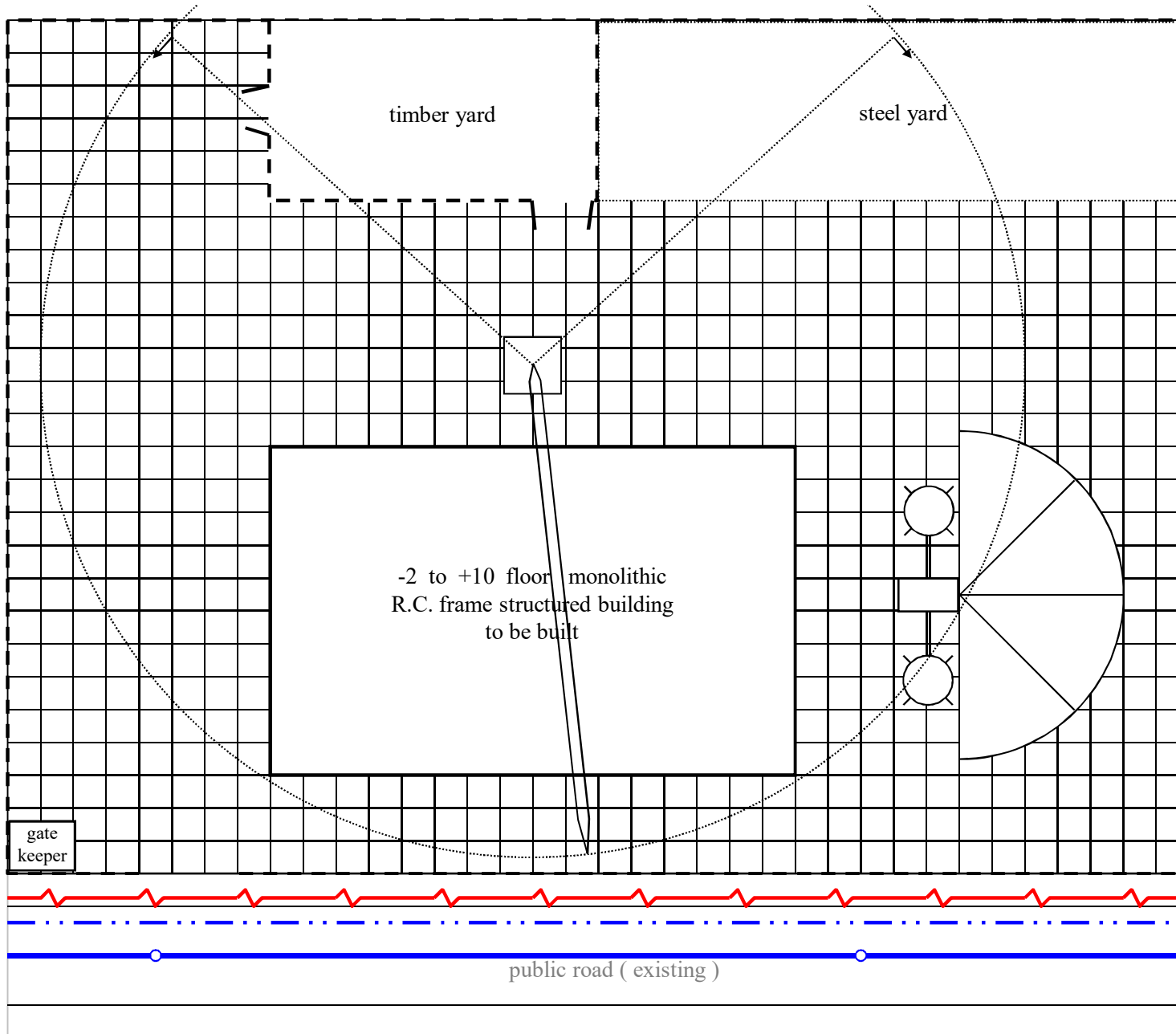


Temporary water supply and sewer system	
Water supply line	— ·
Water nozzle with hose coupler	↰
Water meter with isolator valve	⊠
Well with hydrophore	⊙ ⊠
Isolator valve	⊠
Sedimentation tank	⊠
Temporary sewer line	→
Existing public sewer line	↔
Temporary electric power supply	
High-voltage (primary) transmission line	⚡
High-voltage (secondary) transmission line	⚡
Buried cable	—
Rubber cable	⚡
Electric junction box with fuse block	⊠
Lamp / lamp post	⚡
Cable post	⊙
Service box with main switch	⊠
Transformer station with electric meter	⊠

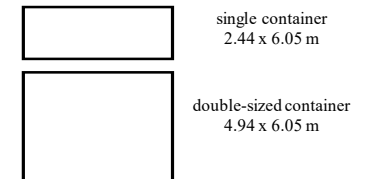
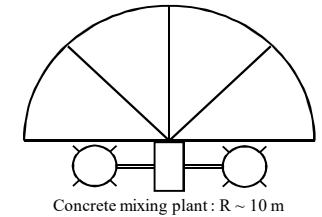


Developing Concept
 STEP 2

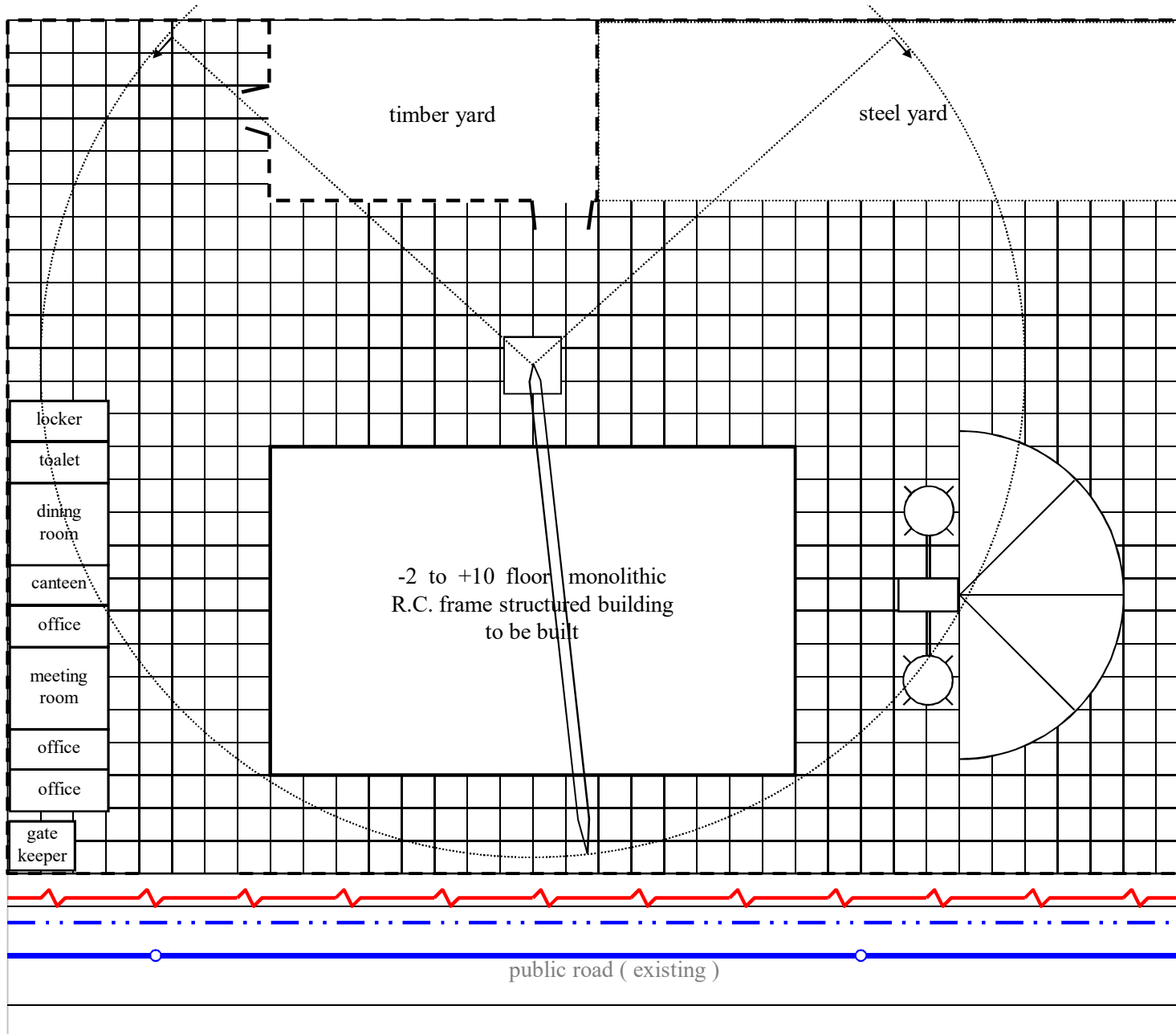
Main Equipment
 (here: Tower Crane)



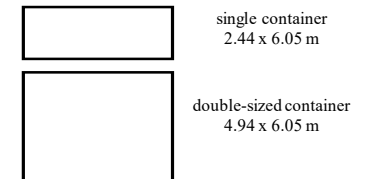
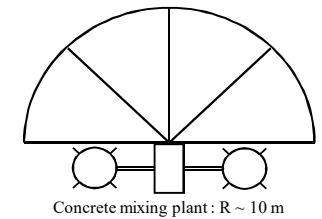
Temporary water supply and sewer system	
Water supply line	—
Water nozzle with hose coupler	↕
Water meter with isolator valve	⊠
Well with hydrophore	⊙
Isolator valve	⊠
Sedimentation tank	⊠
Temporary sewer line	→
Existing public sewer line	↔
Temporary electric power supply	
High-voltage (primary) transmission line	⚡
High-voltage (secondary) transmission line	⚡
Buried cable	—
Rubber cable	⚡
Electric junction box with fuse block	⊠
Lamp / lamp post	⚡
Cable post	⊙
Service box with main switch	⊠
Transformer station with electric meter	⊠



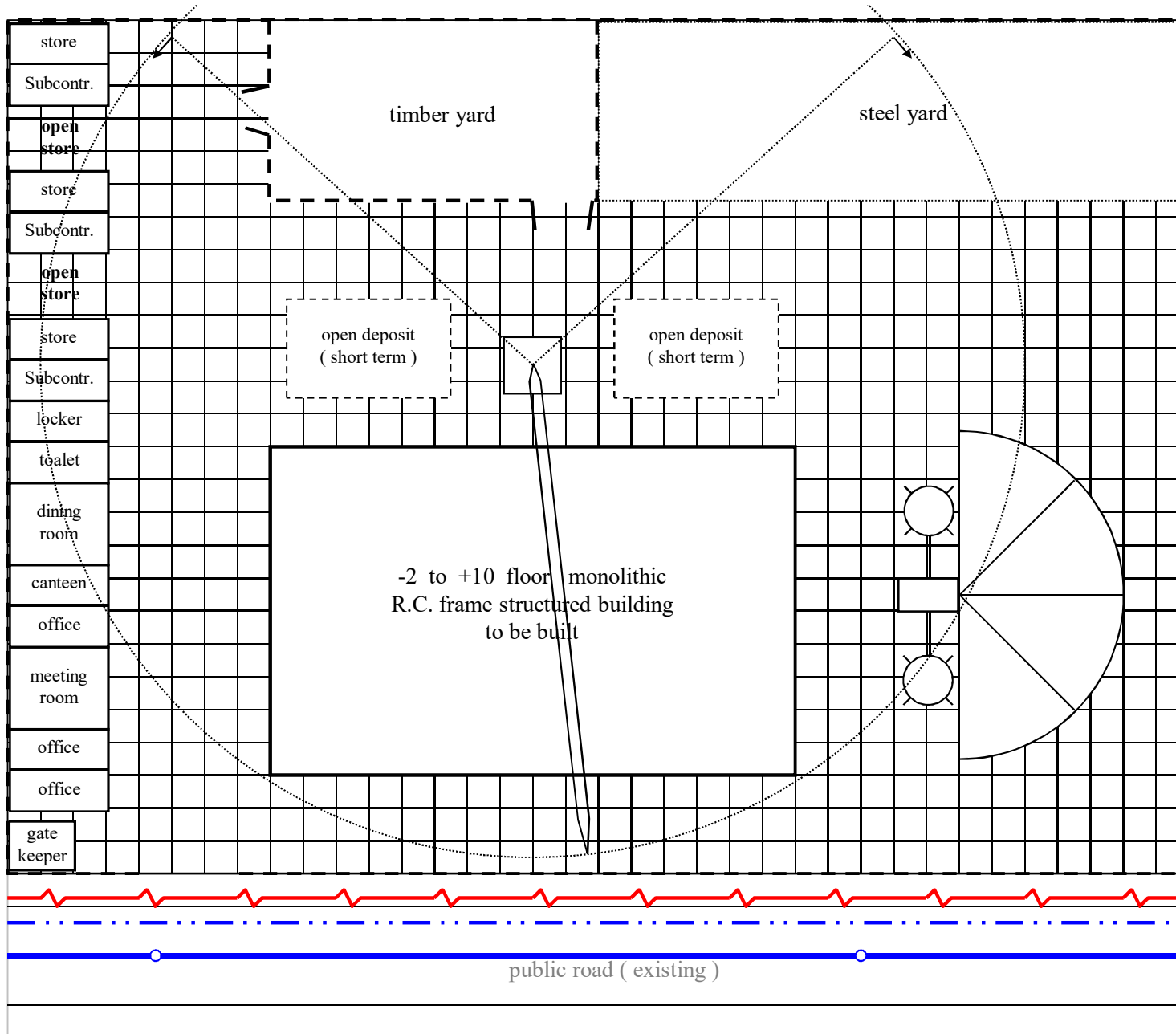
Developing Concept
 STEP 3
 Auxiliary Yards
 Plants and Workshops



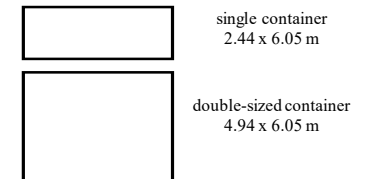
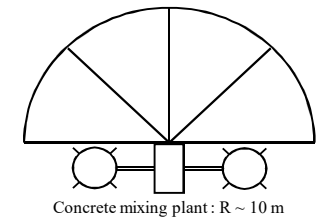
Temporary water supply and sewer system	
Water supply line	—
Water nozzle with hose coupler	↕
Water meter with isolator valve	⊠
Well with hydrophore	⊙
Isolator valve	⊠
Sedimentation tank	⊠
Temporary sewer line	→
Existing public sewer line	↔
Temporary electric power supply	
High-voltage (primary) transmission line	⚡
High-voltage (secondary) transmission line	⚡
Buried cable	—
Rubber cable	⚡
Electric junction box with fuse block	⊠
Lamp / lamp post	⚡
Cable post	⊙
Service box with main switch	⊠
Transformer station with electric meter	⊠



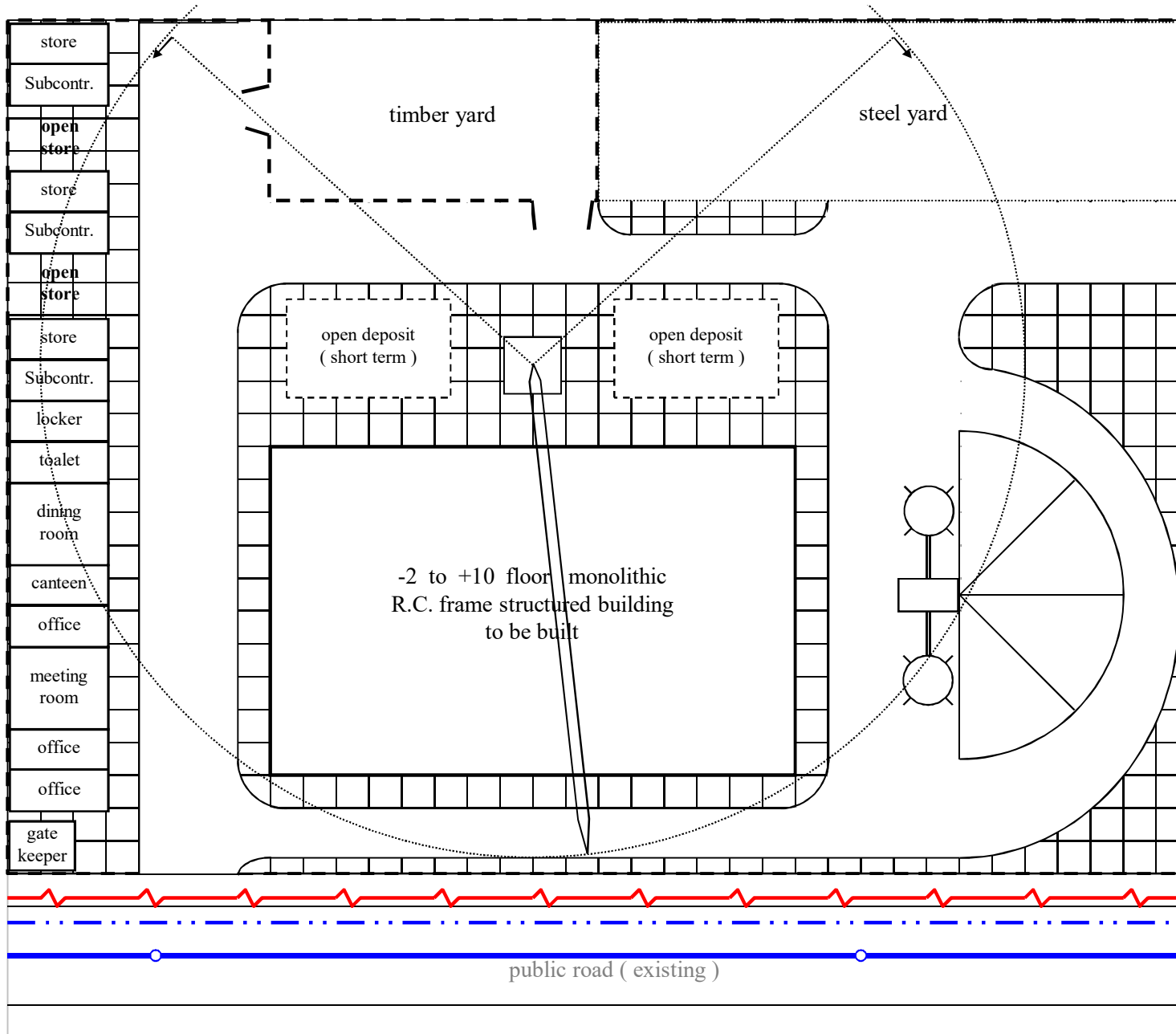
Developing Concept
 STEP 4
 Site Offices
 (Container Village)



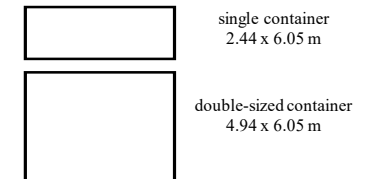
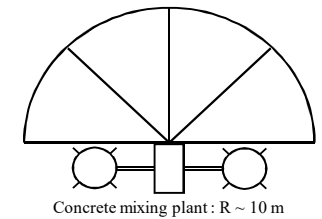
Temporary water supply and sewer system	
Water supply line	—
Water nozzle with hose coupler	↯
Water meter with isolator valve	⊠
Well with hydrophore	⊙
Isolator valve	⊠
Sedimentation tank	⊠
Temporary sewer line	→
Existing public sewer line	↔
Temporary electric power supply	
High-voltage (primary) transmission line	⚡
High-voltage (secondary) transmission line	⚡
Buried cable	—
Rubber cable	⚡
Electric junction box with fuse block	⊠
Lamp / lamp post	⊙
Cable post	⊙
Service box with main switch	⊠
Transformer station with electric meter	⊠



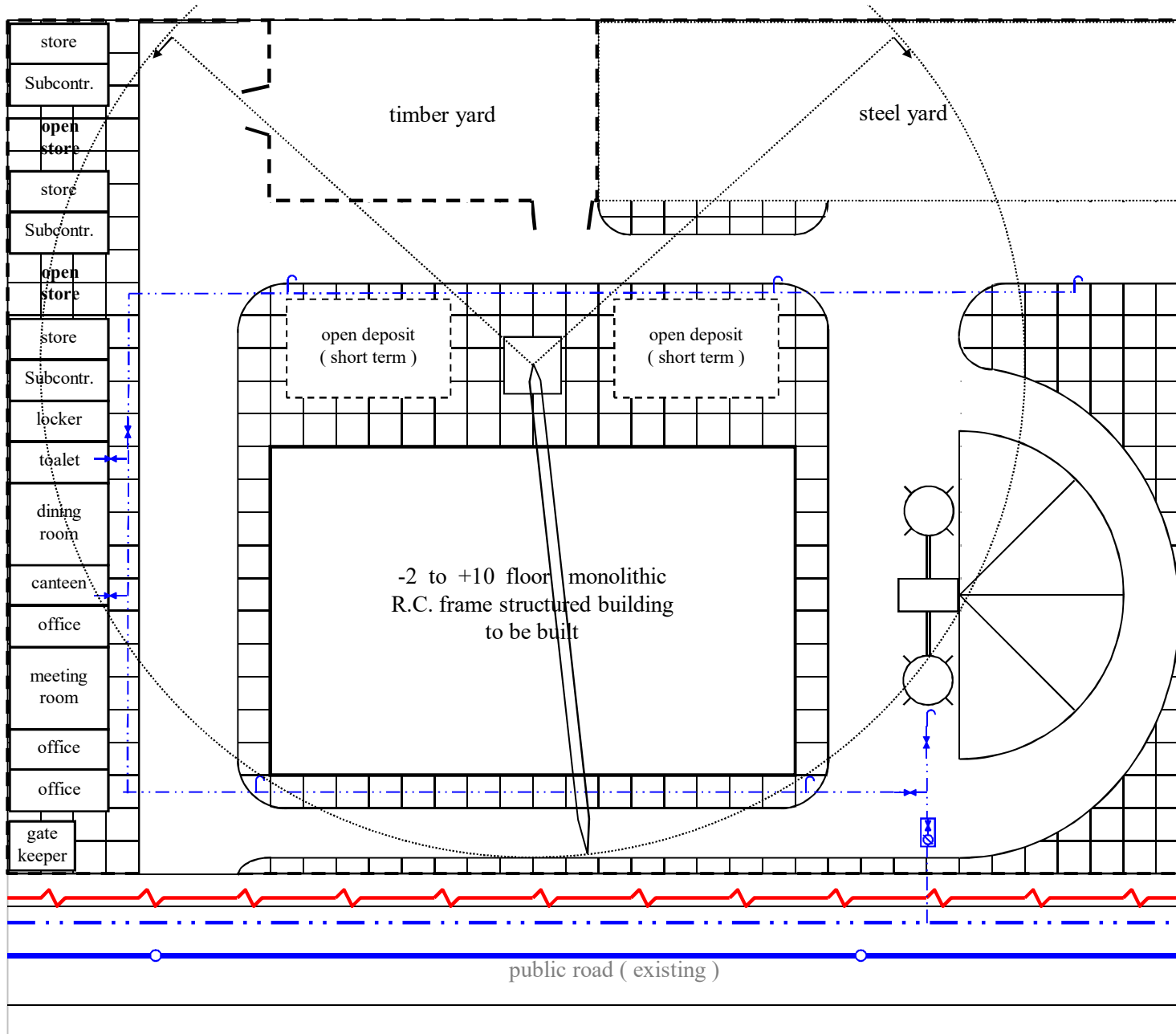
Developing Concept
 STEP 5
 Short and Long Term
 Deposits and Stores



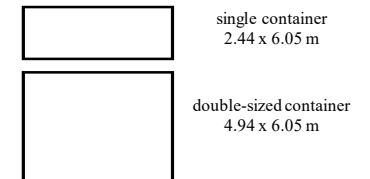
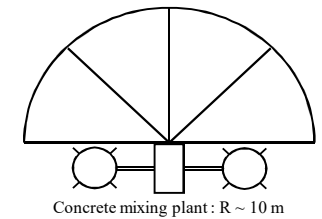
Temporary water supply and sewer system	
Water supply line	—
Water nozzle with hose coupler	↯
Water meter with isolator valve	⊠
Well with hydrophore	⊙
Isolator valve	⊠
Sedimentation tank	⊠
Temporary sewer line	—
Existing public sewer line	—
Temporary electric power supply	
High-voltage (primary) transmission line	⚡
High-voltage (secondary) transmission line	⚡
Buried cable	—
Rubber cable	⚡
Electric junction box with fuse block	⊠
Lamp / lamp post	⚡
Cable post	⊙
Service box with main switch	⊠
Transformer station with electric meter	⊠



Developing Concept
 STEP 6
 Temporary
 Road System

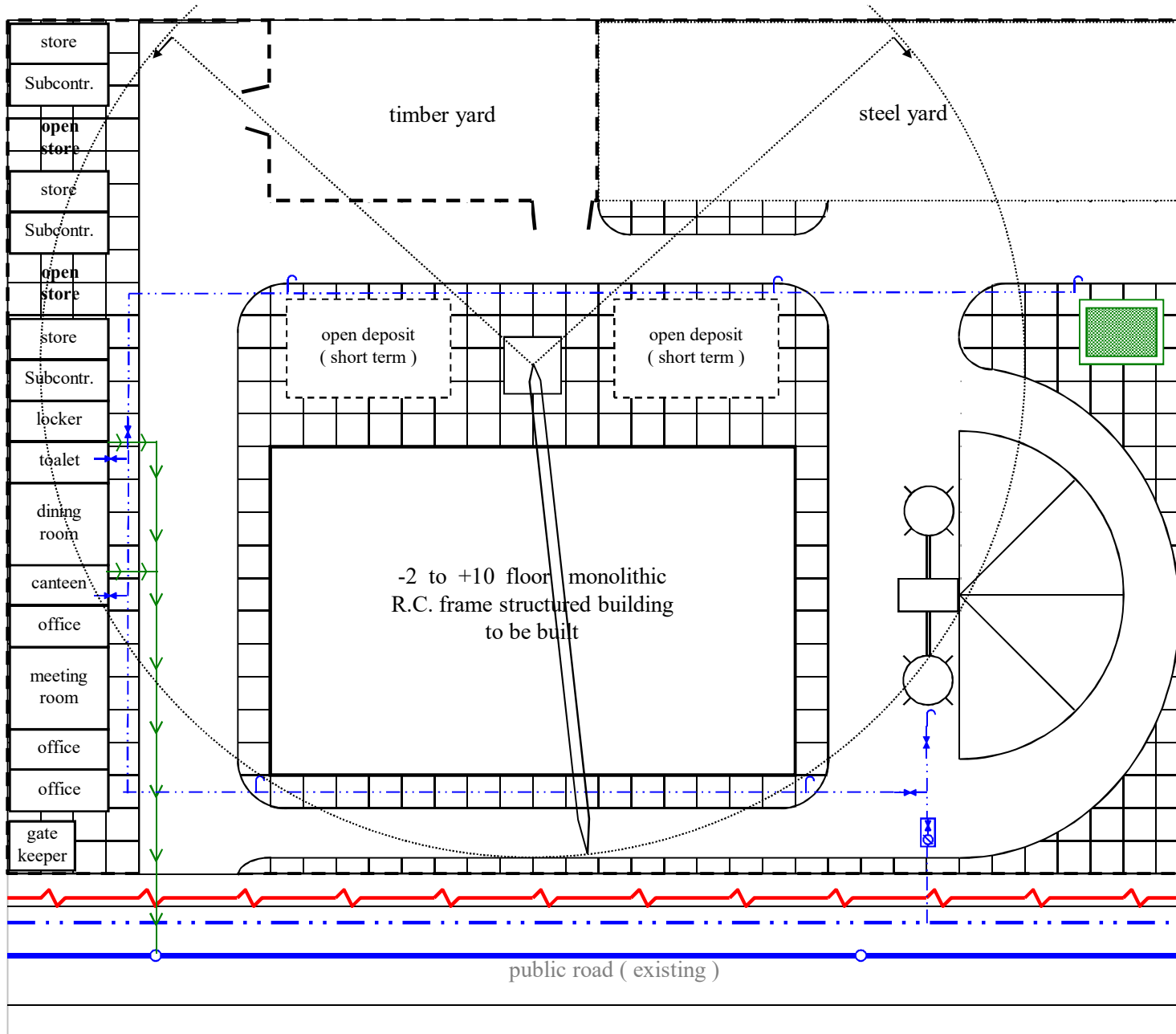


Temporary water supply and sewer system	
Water supply line	—
Water nozzle with hose coupler	↕
Water meter with isolator valve	⊠
Well with hydrophore	⊙
Isolator valve	⊠
Sedimentation tank	⊠
Temporary sewer line	→
Existing public sewer line	↔
Temporary electric power supply	
High-voltage (primary) transmission line	⚡
High-voltage (secondary) transmission line	⚡
Buried cable	—
Rubber cable	⚡
Electric junction box with fuse block	⊠
Lamp / lamp post	⊙
Cable post	⊙
Service box with main switch	⊠
Transformer station with electric meter	⊠

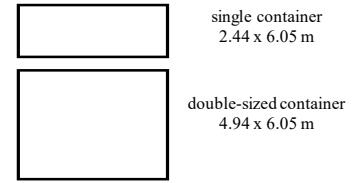
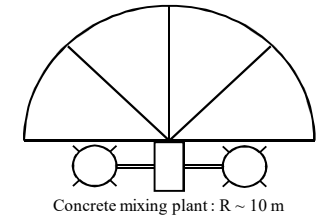


Developing Concept
 STEP 7

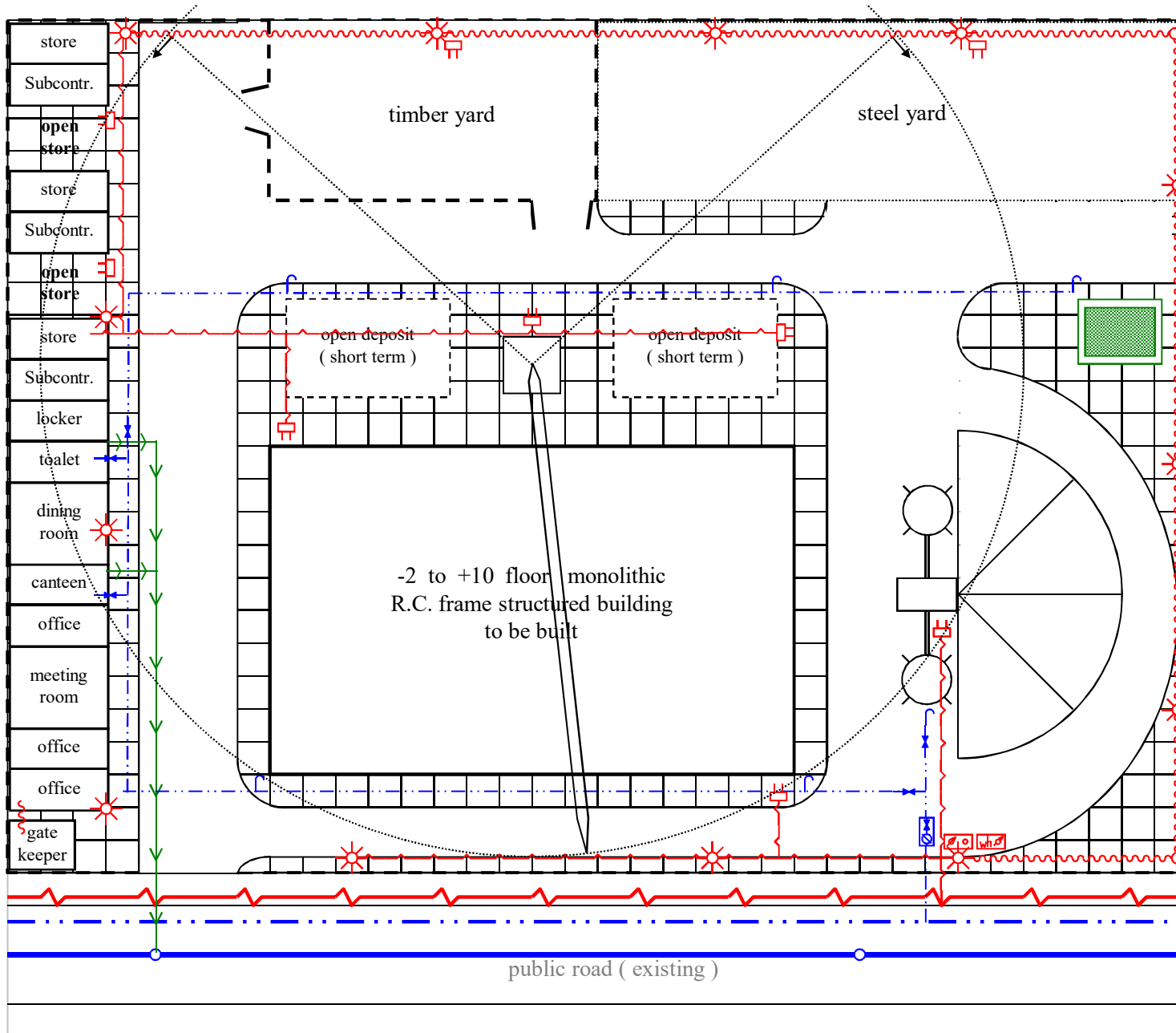
Temporary
 Water Supply



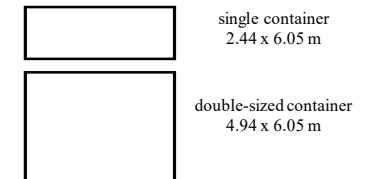
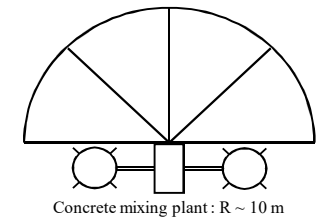
Temporary water supply and sewer system	
Water supply line	—
Water nozzle with hose coupler	↕
Water meter with isolator valve	⊞
Well with hydrophore	⊞
Isolator valve	⊞
Sedimentation tank	⊞
Temporary sewer line	→
Existing public sewer line	↔
Temporary electric power supply	
High-voltage (primary) transmission line	⚡
High-voltage (secondary) transmission line	⚡
Buried cable	—
Rubber cable	⚡
Electric junction box with fuse block	⊞
Lamp / lamp post	⚡
Cable post	⊞
Service box with main switch	⊞
Transformer station with electric meter	⊞



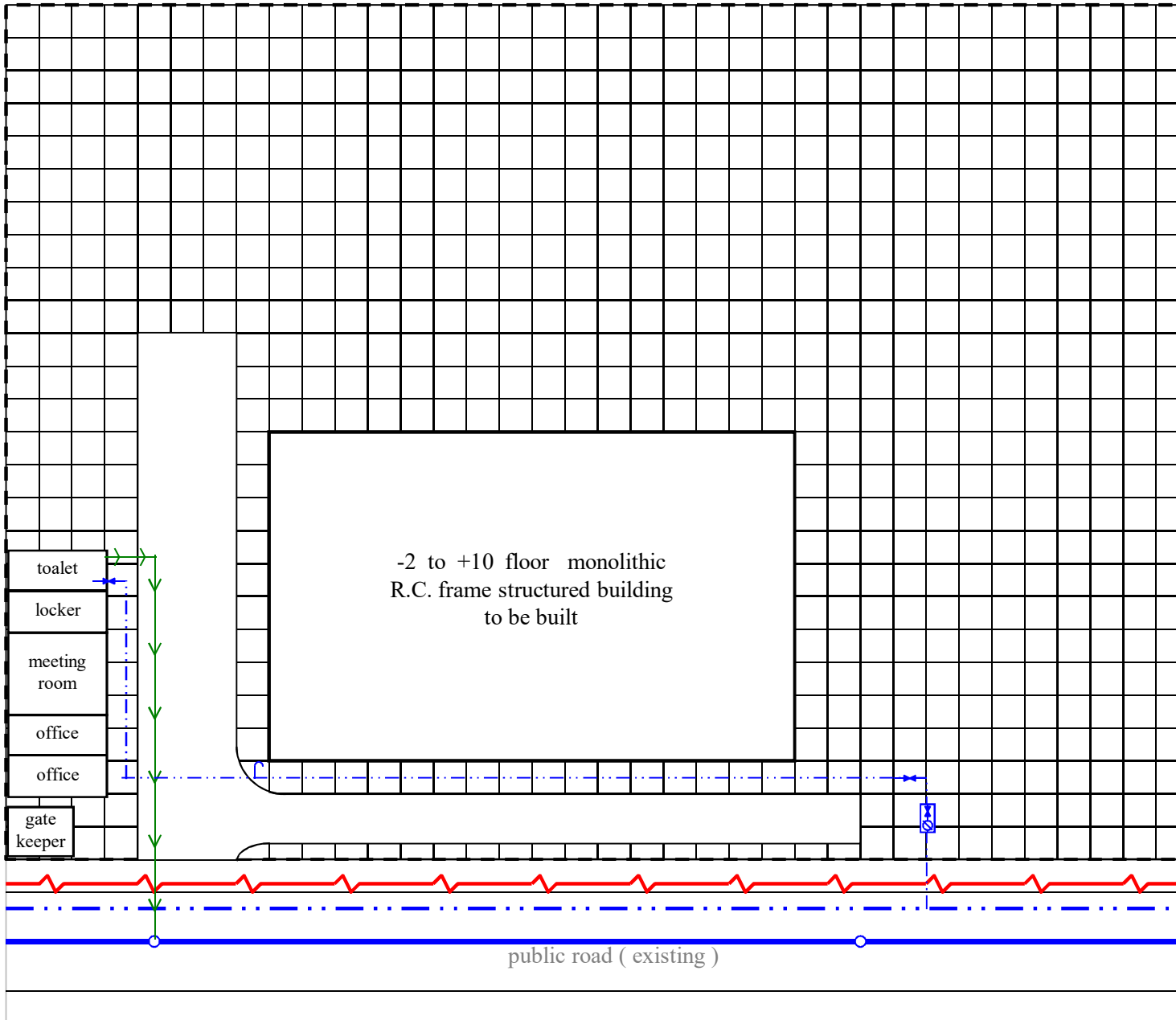
Developing Concept
 STEP 8
 Waste & Storm Water
 (Treatment)



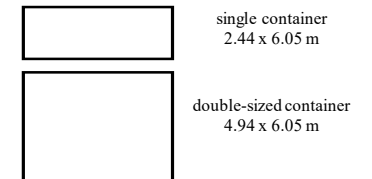
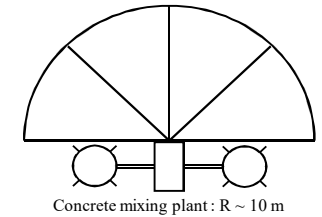
Temporary water supply and sewer system	
Water supply line	—
Water nozzle with hose coupler	↕
Water meter with isolator valve	⊠
Well with hydrophore	⊙
Isolator valve	⊠
Sedimentation tank	⊠
Temporary sewer line	→
Existing public sewer line	↔
Temporary electric power supply	
High-voltage (primary) transmission line	⚡
High-voltage (secondary) transmission line	⚡
Buried cable	—
Rubber cable	⚡
Electric junction box with fuse block	⊠
Lamp / lamp post	⊙
Cable post	⊙
Service box with main switch	⊠
Transformer station with electric meter	⊠



Developing Concept
 STEP 9
 Temporary Electric
 Supply

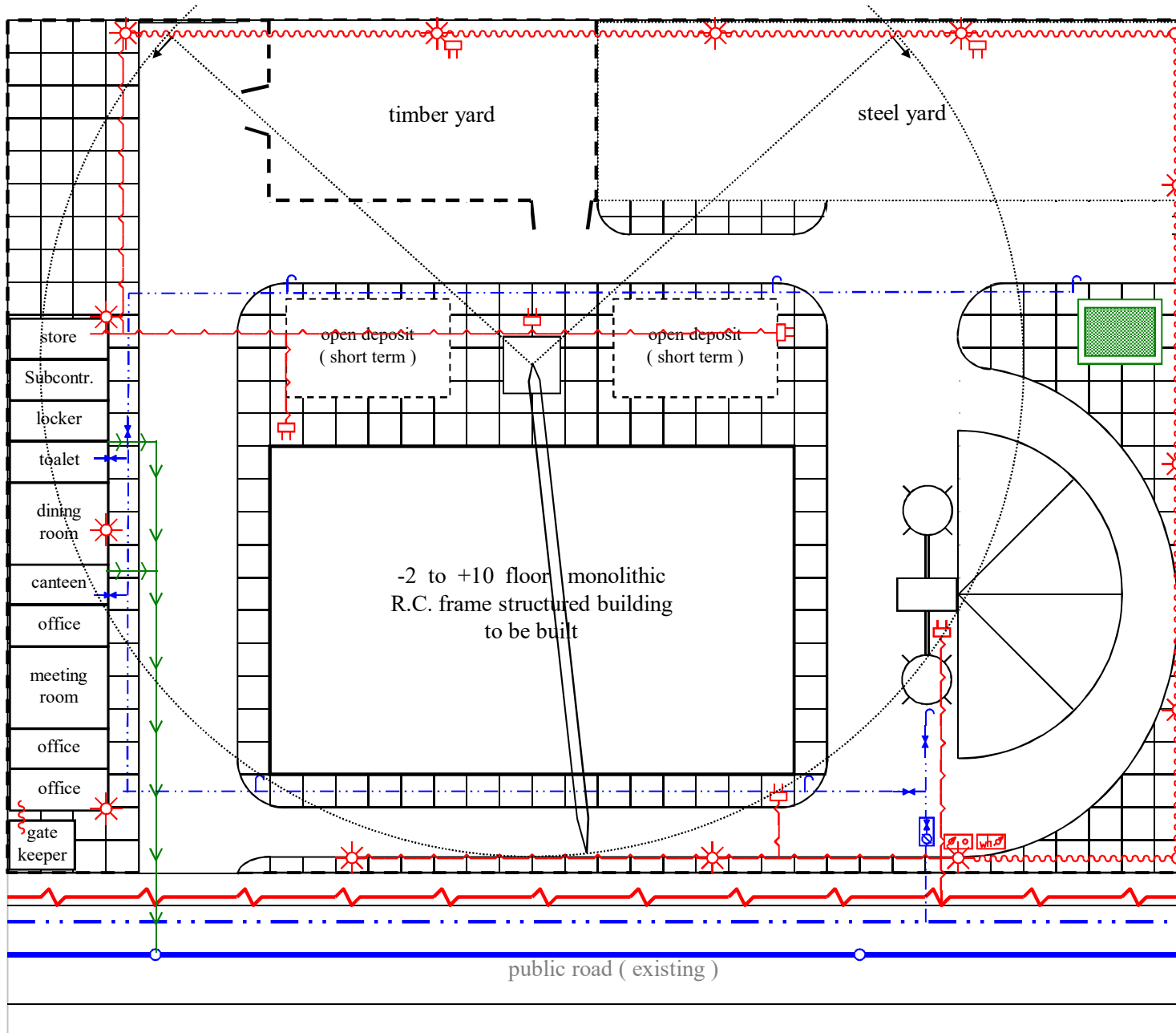


Temporary water supply and sewer system	
Water supply line	—
Water nozzle with hose coupler	↕
Water meter with isolator valve	⊠
Well with hydrophore	⊙
Isolator valve	⊠
Sedimentation tank	⊠
Temporary sewer line	→
Existing public sewer line	→
Temporary electric power supply	
High-voltage (primary) transmission line	⚡
High-voltage (secondary) transmission line	⚡
Buried cable	—
Rubber cable	⚡
Electric junction box with fuse block	⊠
Lamp / lamp post	⚡
Cable post	⊙
Service box with main switch	⊠
Transformer station with electric meter	⊠

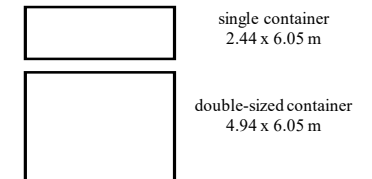
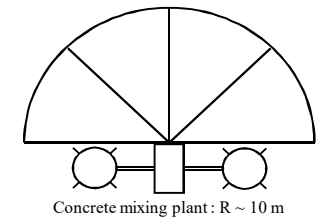


Adjusting to Phases
of Construction

Earthworks and
Foundation Works

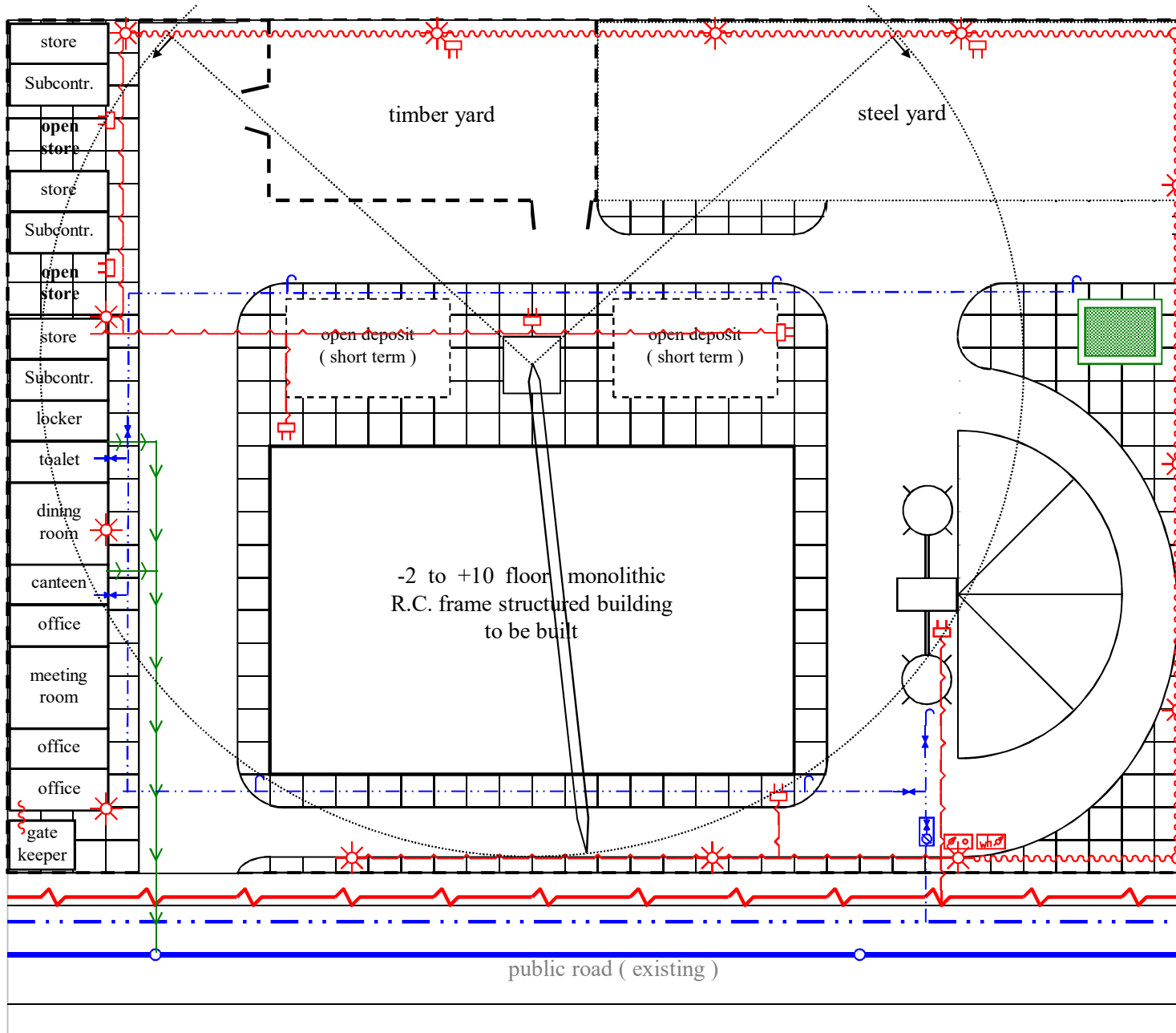


Temporary water supply and sewer system	
Water supply line	—
Water nozzle with hose coupler	↕
Water meter with isolator valve	⊠
Well with hydrophore	⊙
Isolator valve	⊠
Sedimentation tank	⊠
Temporary sewer line	→
Existing public sewer line	↔
Temporary electric power supply	
High-voltage (primary) transmission line	⚡
High-voltage (secondary) transmission line	⚡
Buried cable	—
Rubber cable	⚡
Electric junction box with fuse block	⊠
Lamp / lamp post	⊙
Cable post	⊙
Service box with main switch	⊠
Transformer station with electric meter	⊠

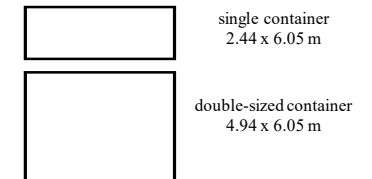
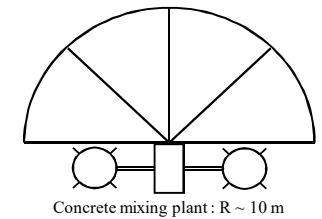


Adjusting to Phases
 of Construction

Structural Works

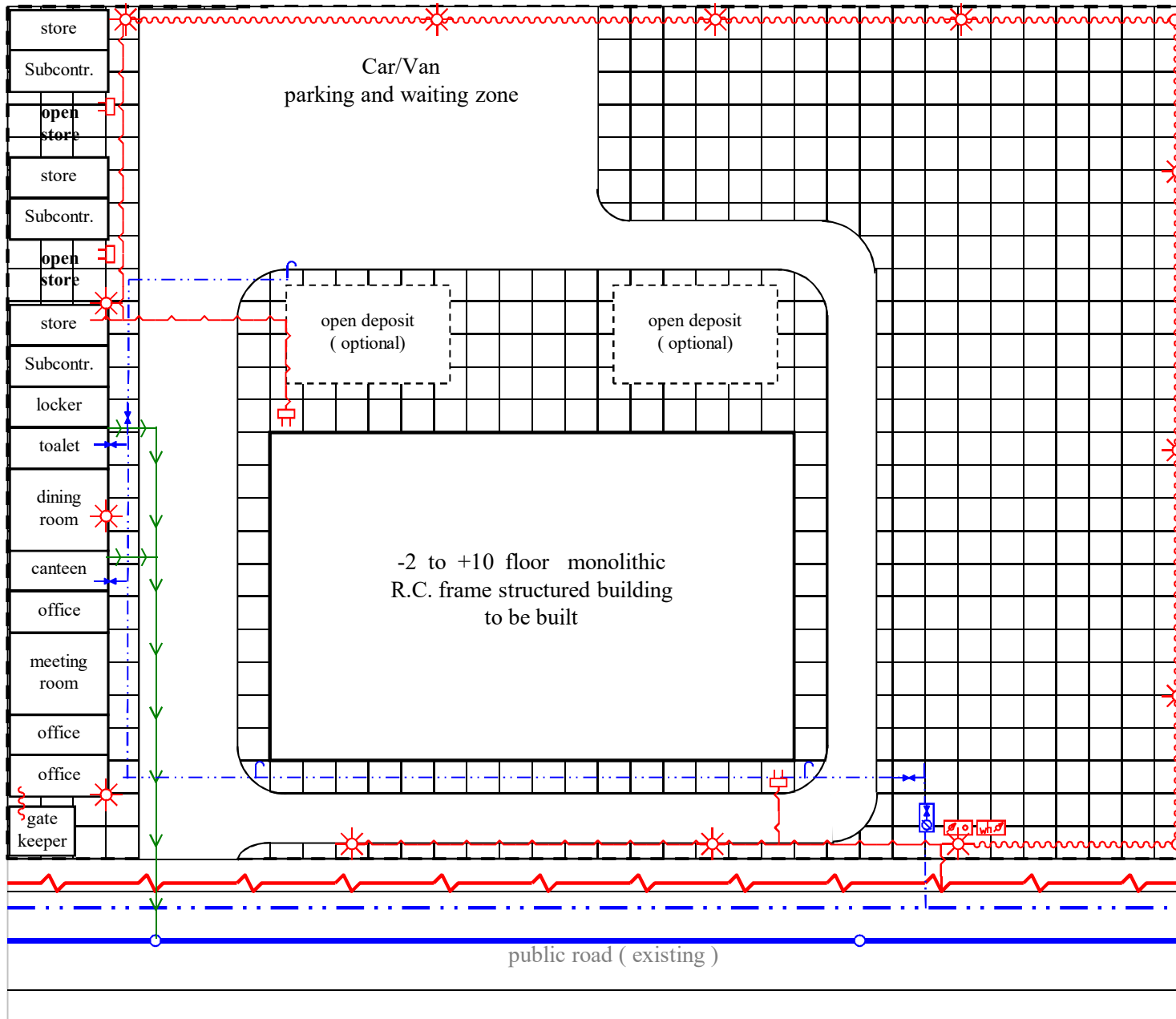


Temporary water supply and sewer system	
Water supply line	—
Water nozzle with hose coupler	↕
Water meter with isolator valve	⊠
Well with hydrophore	⊙
Isolator valve	⊠
Sedimentation tank	⊠
Temporary sewer line	→
Existing public sewer line	↔
Temporary electric power supply	
High-voltage (primary) transmission line	⚡
High-voltage (secondary) transmission line	⚡
Buried cable	—
Rubber cable	⚡
Electric junction box with fuse block	⊠
Lamp / lamp post	⊙
Cable post	⊙
Service box with main switch	⊠
Transformer station with electric meter	⊠

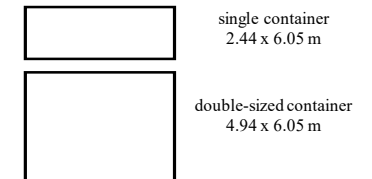
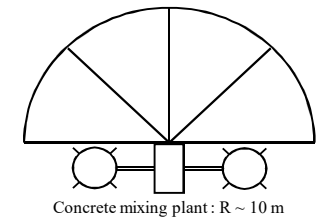


Adjusting to Phases
 of Construction

Structural Works and
 Finishing Works



Temporary water supply and sewer system	
Water supply line	—
Water nozzle with hose coupler	↕
Water meter with isolator valve	⊠
Well with hydrophore	⊙
Isolator valve	⊠
Sedimentation tank	⊠
Temporary sewer line	→
Existing public sewer line	→
Temporary electric power supply	
High-voltage (primary) transmission line	⚡
High-voltage (secondary) transmission line	⚡
Buried cable	—
Rubber cable	⚡
Electric junction box with fuse block	⊠
Lamp / lamp post	⊙
Cable post	⊙
Service box with main switch	⊠
Transformer station with electric meter	⊠



Adjusting to Phases
 of Construction

Finishing Works