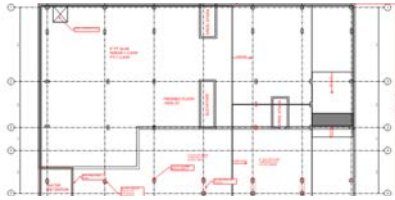




HOW TO PLAN A DEWATERING PROJECT - CHECKLIST

Developing an efficient dewatering management plan is the first step in a successful dewatering project. Utilize our project checklist to ensure you don't miss a step when gathering important information and planning dewatering activities.

Collect Project Information



- Type of project (utility, commercial, infrastructure)
- Excavation size, depth, type
- Shoring method
- Excavation/Dewatering duration

Understand Site Hydrogeology



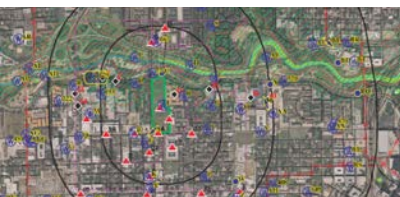
- Analyze Geotechnical Report/ Borings
 - Boring logs
 - Lab analysis (soil grain size)
 - Geologic setting (alluvial, glacial, coastal)
 - Pump/Slug test data

Calculate Flow Rate



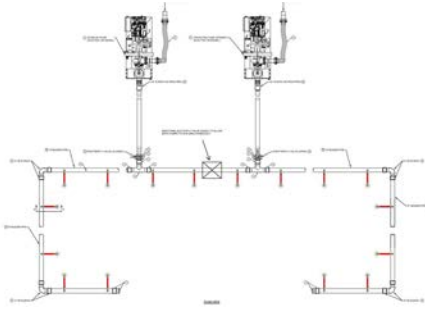
- Groundwater modeling
- Analytical calculations (Thiem, Dupuit)

Groundwater Discharge Considerations



- What contaminants are in the water?
 - Water quality reports
 - Environmental site study/Assessment
- How much water will be discharged?
 - Constant vs. Intermittent & Total volume
- Where to discharge water?
 - Onsite holding/Recharge
 - Sanitary or Storm sewer
 - Surface water body
- Permitting for discharge
 - Who regulates the discharge point?
 - What are the water quality requirements?

Dewatering System Design & Installation



- Factors to consider when choosing a dewatering method
 - Geologic conditions
 - Subsurface water table
 - Depth of excavation
 - Amount of drawdown
 - Required pumping rate
 - Constant vs. Intermittent pumping

- Assess required installation technique
 - Bucket auger, jetting, wash/air rotary, sonic
 - May be dictated by site/geologic conditions

- Create a system layout to verify system component locations compliment the site logistics & don't interfere with construction or utilities

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