

Milestone	Requirements
Pre-Qualify TBM Manufactures	<ul style="list-style-type: none"> <li>- Pre-Qualification Criteria</li> <li>- Outreach</li> <li>- Advertise</li> <li>- Review and Recommend</li> <li>- Inform Successful Manufactures</li> </ul>
Pre-Qualify Design Build Teams	<ul style="list-style-type: none"> <li>- Set Pre-Qualification Criteria</li> <li>- Outreach</li> <li>- Advertise</li> <li>- Review and Recommend</li> <li>- Inform Successful Teams</li> </ul>
Prepare Design Build Contracts	<p><b>Design Tasks</b></p> <ul style="list-style-type: none"> <li>- Tunnel Cross Sections</li> <li>- Portal and approaches geometry</li> <li>- Working areas</li> <li>- Geotechnical Investigation and Baseline Report</li> <li>- Settlement Report <ul style="list-style-type: none"> <li>- Mitigation measures – must do?</li> <li>- 3rd Party Agreements</li> <li>- Ground treatment</li> <li>- Speciation requirements</li> </ul> </li> <li>- Utilities <ul style="list-style-type: none"> <li>- Diversions</li> <li>- TBM power</li> <li>- Wastewater disposal</li> </ul> </li> <li>- Fire-life safety requirements <ul style="list-style-type: none"> <li>- Agreement with Fire Marshall, FHA, City ?</li> <li>- Performance requirements for ventilation?</li> </ul> </li> <li>- Muck disposal plan</li> <li>-</li> </ul> <p><b>Contractual</b></p> <ul style="list-style-type: none"> <li>- Contract Terms and Conditions</li> <li>- Insurance – Owner Controlled?</li> <li>- Bonding Requirements</li> <li>- Contract packaging including sizes and interfaces</li> <li>- Contractor GBR?</li> <li>- Best value or low bid?</li> <li>- Incentives – pain/gain</li> <li>- Stipend? Size?</li> <li>- Must use pre-qualified TBM manufacturer?</li> <li>- Design Submittals and review process</li> <li>- Independent QA?</li> </ul>
Prepare and Issue TBM Pre-Design Contract Documents	<ul style="list-style-type: none"> <li>- Slurry or EPB?</li> <li>- Tunnel Diameter – Link to FLS requirements</li> <li>- Contract value – based on number of pre-qualified</li> </ul>

	<p>manufactures?</p> <ul style="list-style-type: none"> <li>- Deliverables for discussion with TBM Steering panel</li> <li>- Performance Requirements</li> <li>- Must Haves</li> </ul>
Issue Design Build Contract Documents	<ul style="list-style-type: none"> <li>- Period for Bid</li> <li>- Bid assessment</li> </ul>
FWHA Submittals	<p>Project Management Plan  Procurement Plan  Risk Analysis  Others?</p>
Cost Estimate	
Master Schedule	
ROW	