



Tri-City
Water Resource
Recovery Facility

CLACKAMAS RIVER

WILLAMETTE RIVER

99E

McLoughlin Blvd

Existing Outfall

99E

McLoughlin Blvd

205

Outfall Project Alignment

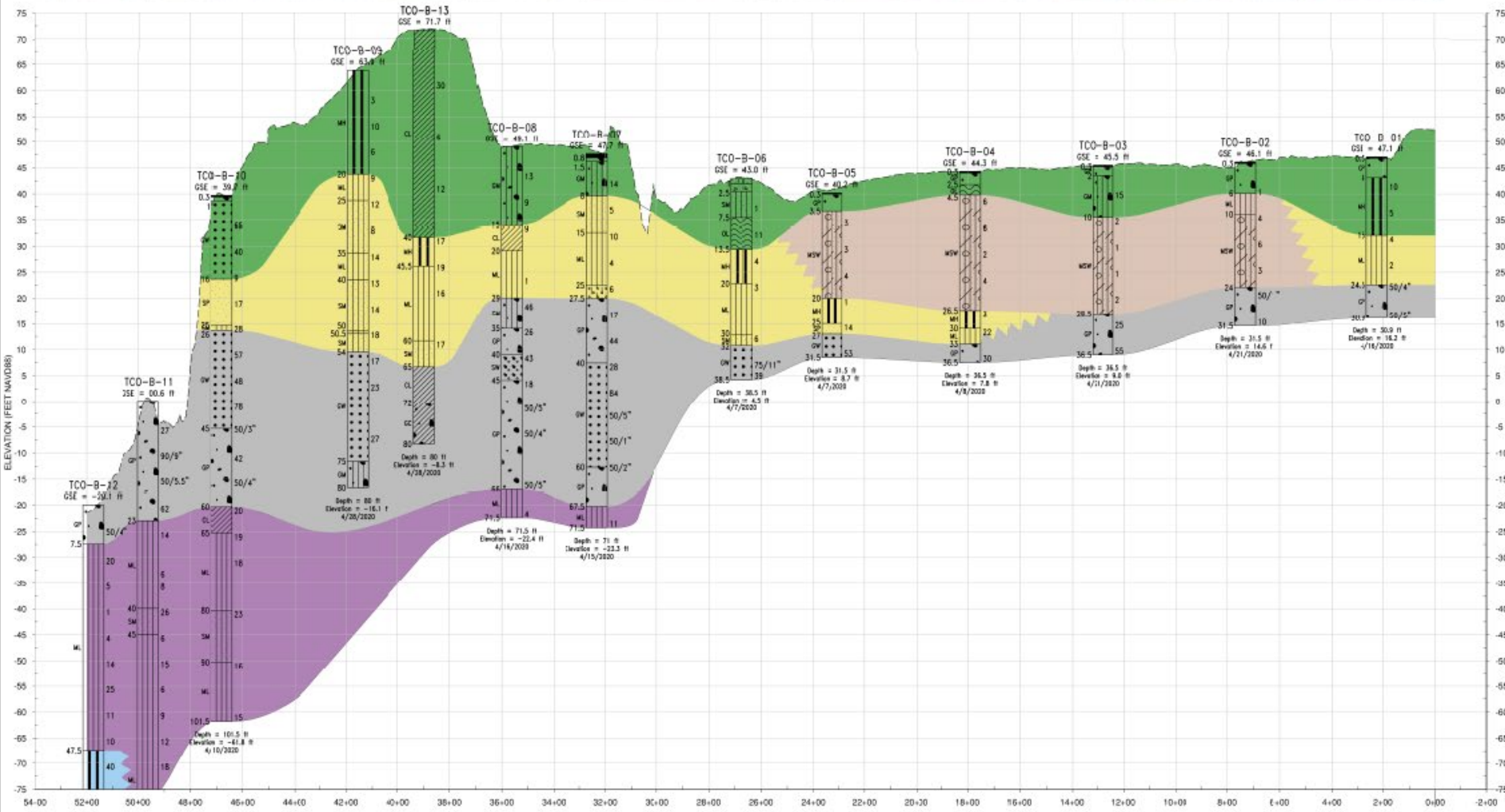
Washington St

Washington St

Diffuser

205

- Existing outfall to serve as backup
- Additional outfall



PROFILE
HORIZ SCALE: 1"=300'
VERT SCALE: 1"=20'

- LEGEND**
- FILL
 - MSW & SOIL
 - SAND AND SILT ALLUVIUM
 - GRAVEL ALLUVIUM
 - MISSOULA FLOOD DEPOSITS
 - RESIDUAL SOIL

FIGURE 2
PLAN VIEW OF PROPOSED ALIGNMENT WITH
SUBSURFACE PROFILE
TRA-CITY WRSB
WILLAMETTE RIVER OUTFALL

Feasible Installation Methods

- Closed Face Tunneling Options
 - Microtunnel Boring Machines (MTBM)
 - Earth Pressure Balance Machines (EPBM)
- Open Face Tunneling Options
 - Rotary Wheeled Tunnel Boring Machine (TBM)
 - Tunneling Shield / Shielded Tunneling
 - Hand Mining

