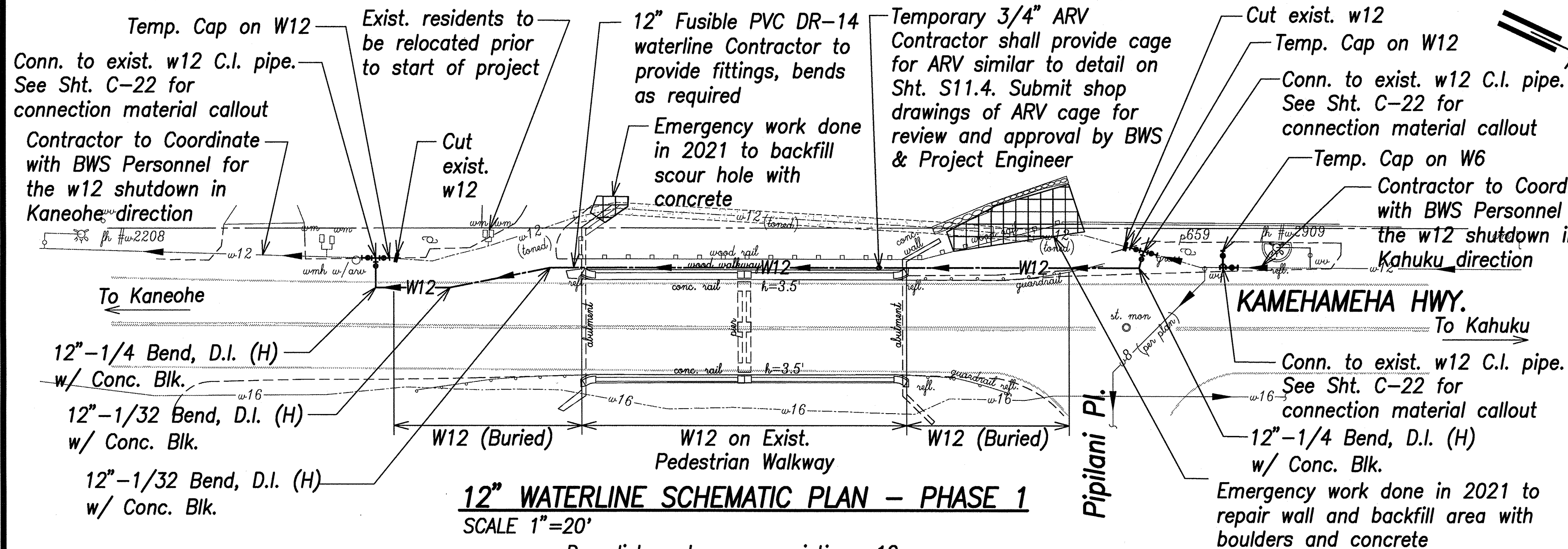


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-083-1(48)	2021	23	161



**Suggested Phasing for Work on 12" Waterline:**

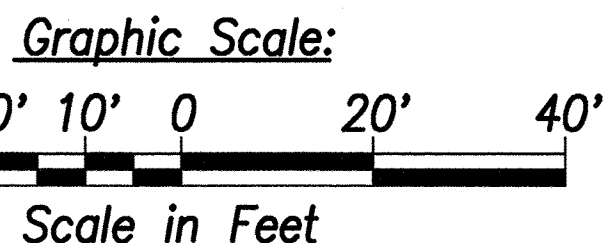
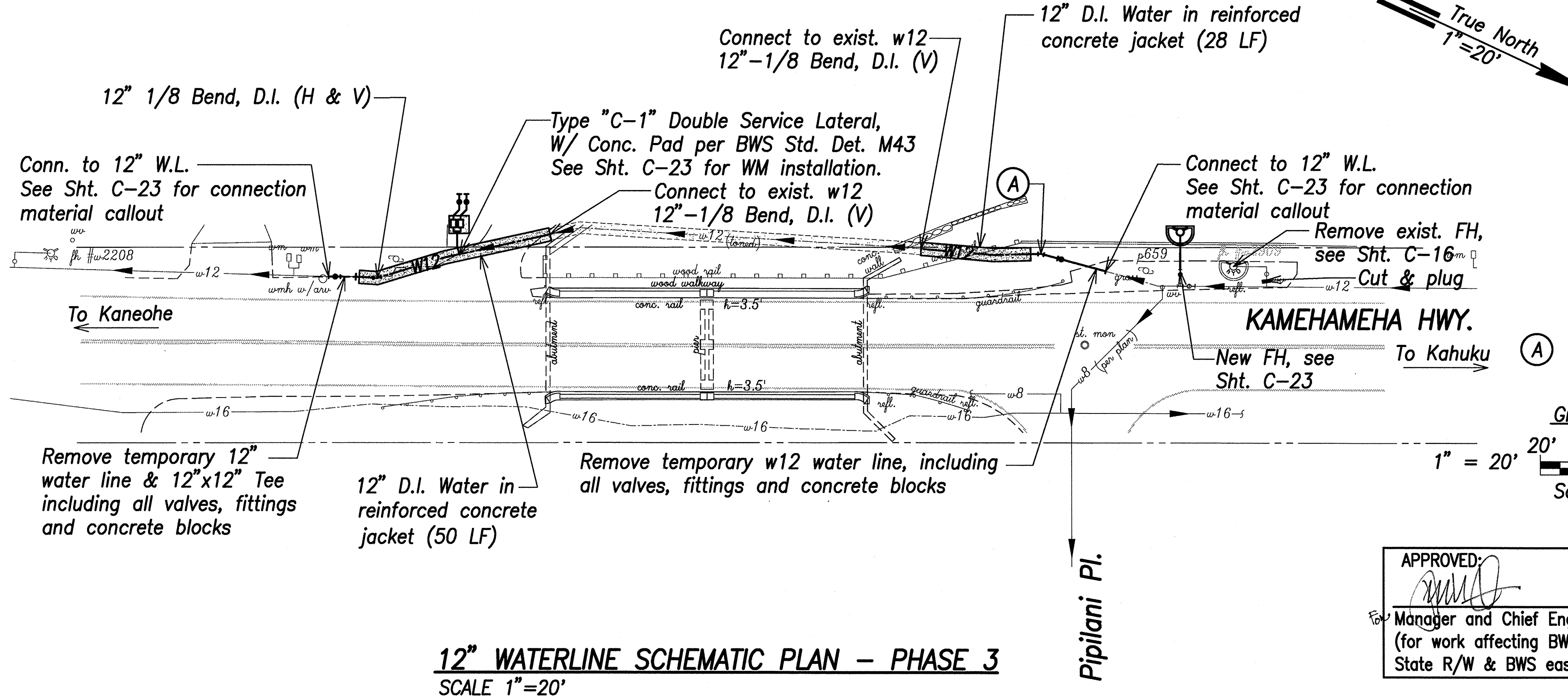
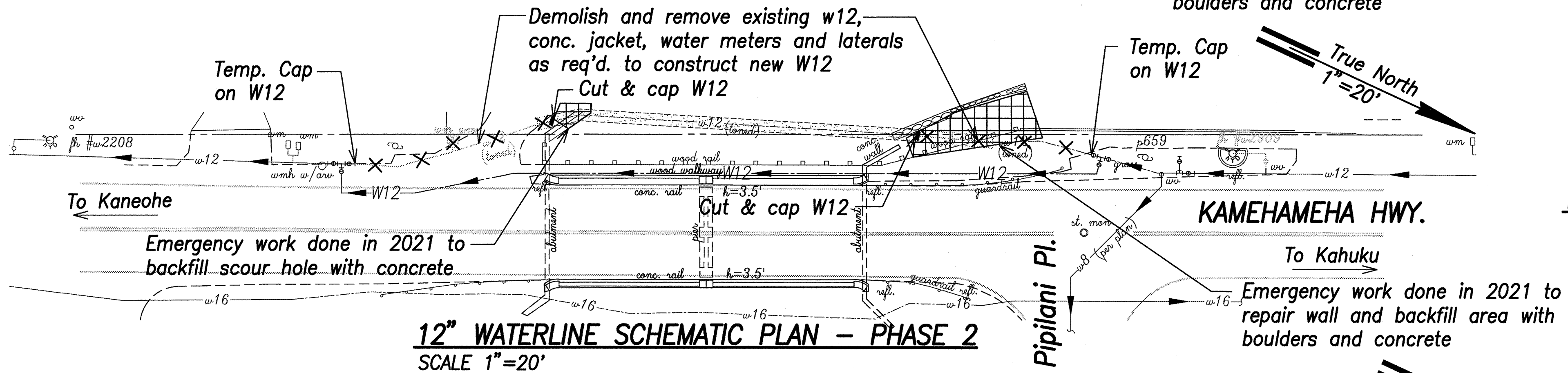
**PHASE 1:**  
Construct temporary bypass waterline improvements shown on this sheet and perform pressure test and chlorination. See sht. C-22 for plan & profile of temporary bypass waterline. Contractor shall coordinate with BWS personnel for the shutdown of the w12 in the Kaneohe and Kahuku direction in order to make connections to the existing w12. (Note: Maximum allowable time for w12 shutdown is 6 hours. Contractor is responsible for any extra costs incurred if work exceeds maximum allowable time.)

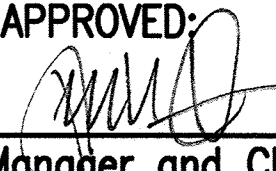
**PHASE 2:**  
Excavate trench and construct shoring for new W12 improvements. Expose portions of existing w12 in concrete jacket required to construct new improvements. Demolish and remove existing w12, concrete jacket, water meters and laterals as needed to construct the new W12, see sht. C-22.

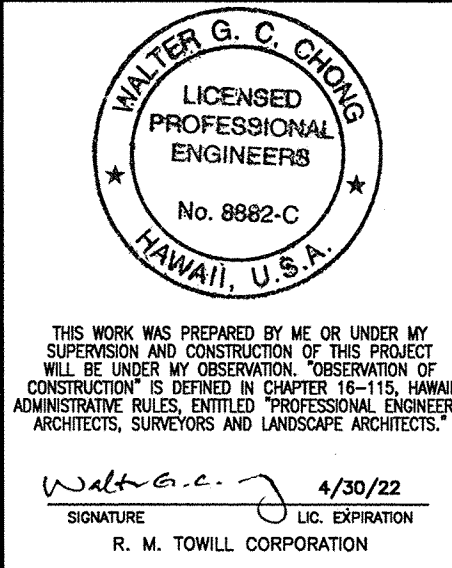
**PHASE 3:**  
Construct permanent waterline improvements shown on this sheet and sheet C-23 and perform pressure test and chlorination. Contractor shall coordinate with BWS personnel for the shutdown of the w12 in the Kaneohe and Kahuku direction in order to make connections to the existing w12. Remove W12 bypass waterline, including all gate valves, fittings and concrete blocks on both sides of existing bridge. (Note: Maximum allowable time for w12 shutdown is 6 hours. Contractor is responsible for any extra costs if work exceeds maximum allowable time.)

**Notes:**

- The contractor shall verify the invert and location of the existing 12-inch waterline prior to the start of waterline construction and adjust the invert of the new 12-inch waterline to match the existing invert for future connection.
- The contractor shall be responsible for anchoring the portion of fusible PVC waterline that will be located above ground. Contractor shall be responsible for protecting & maintaining temporary waterline during the 2 month duration. Contractor shall submit shop drawings of temporary w12 waterline restraints before starting construction. All work shall be considered incidental to the various items of work.
- Connection of the temporary 16" waterline to the existing 16" waterline cannot begin until after the permanent 12" waterline has been pressure tested, accepted by BWS and placed into service and the temporary 12" waterline has been removed.
- See Sht. C-25 for sections showing temporary 12" waterline on pedestrian bridge and under Kamehameha Highway.



APPROVED:  MAY 24 2021  
DATE  
For Manager and Chief Engineer, BWS,  
(for work affecting BWS facilities  
State R/W & BWS easements only)



DATE		REVISION	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**12-INCH WATERLINE PHASING PLAN**  
**Kamehameha Highway**  
**Kaipapua Stream Bridge Replacement**  
**Federal Aid Project No. BR-083-1(48)**  
Scale: As Noted Date: February 2021