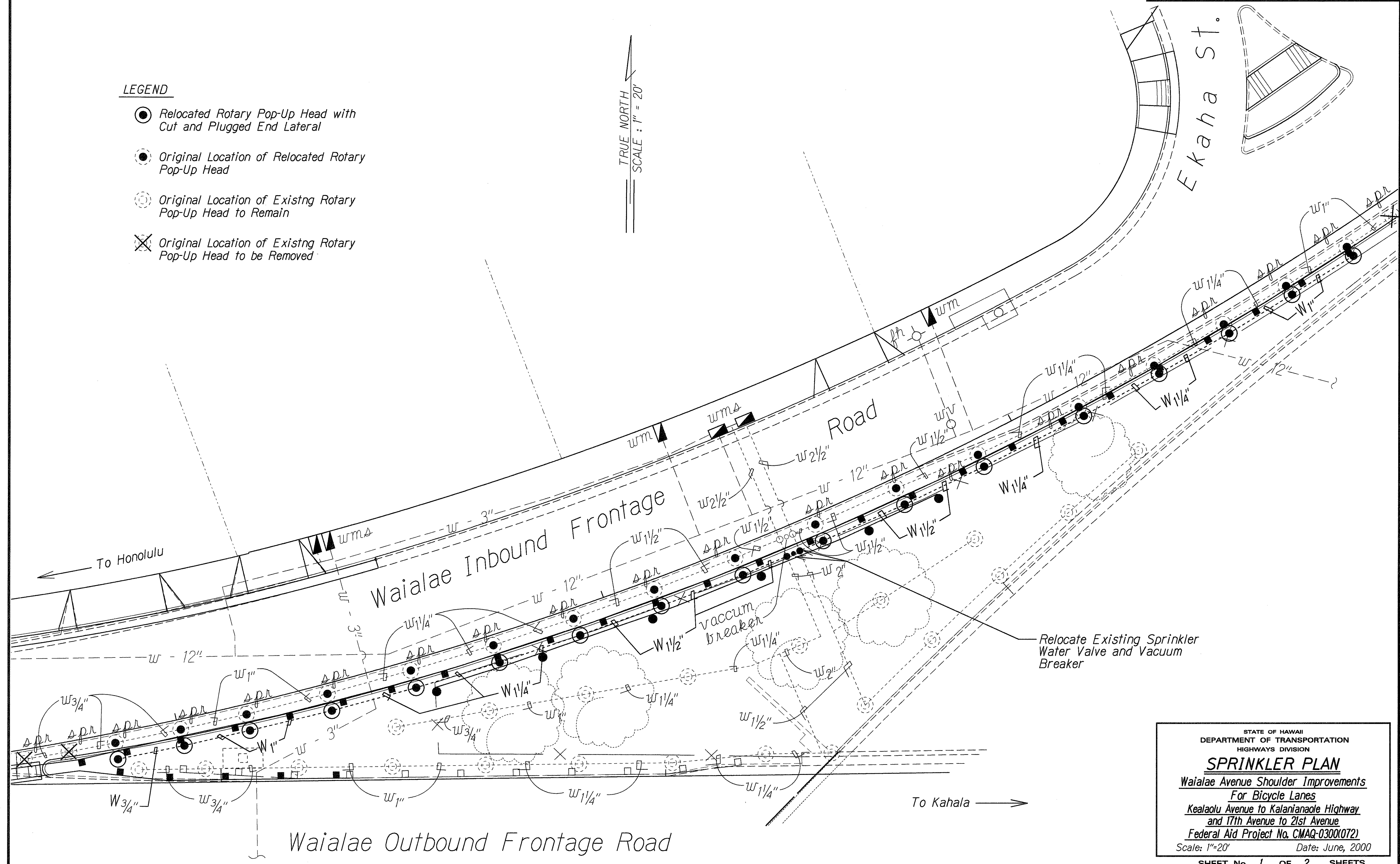


| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | CMAQ-0300(072)     | 2000        | 59        | 60           |

**LEGEND**

- Relocated Rotary Pop-Up Head with Cut and Plugged End Lateral
- Original Location of Relocated Rotary Pop-Up Head
- ⊙ Original Location of Existing Rotary Pop-Up Head to Remain
- ⊗ Original Location of Existing Rotary Pop-Up Head to be Removed

TRUE NORTH  
SCALE: 1" = 20'



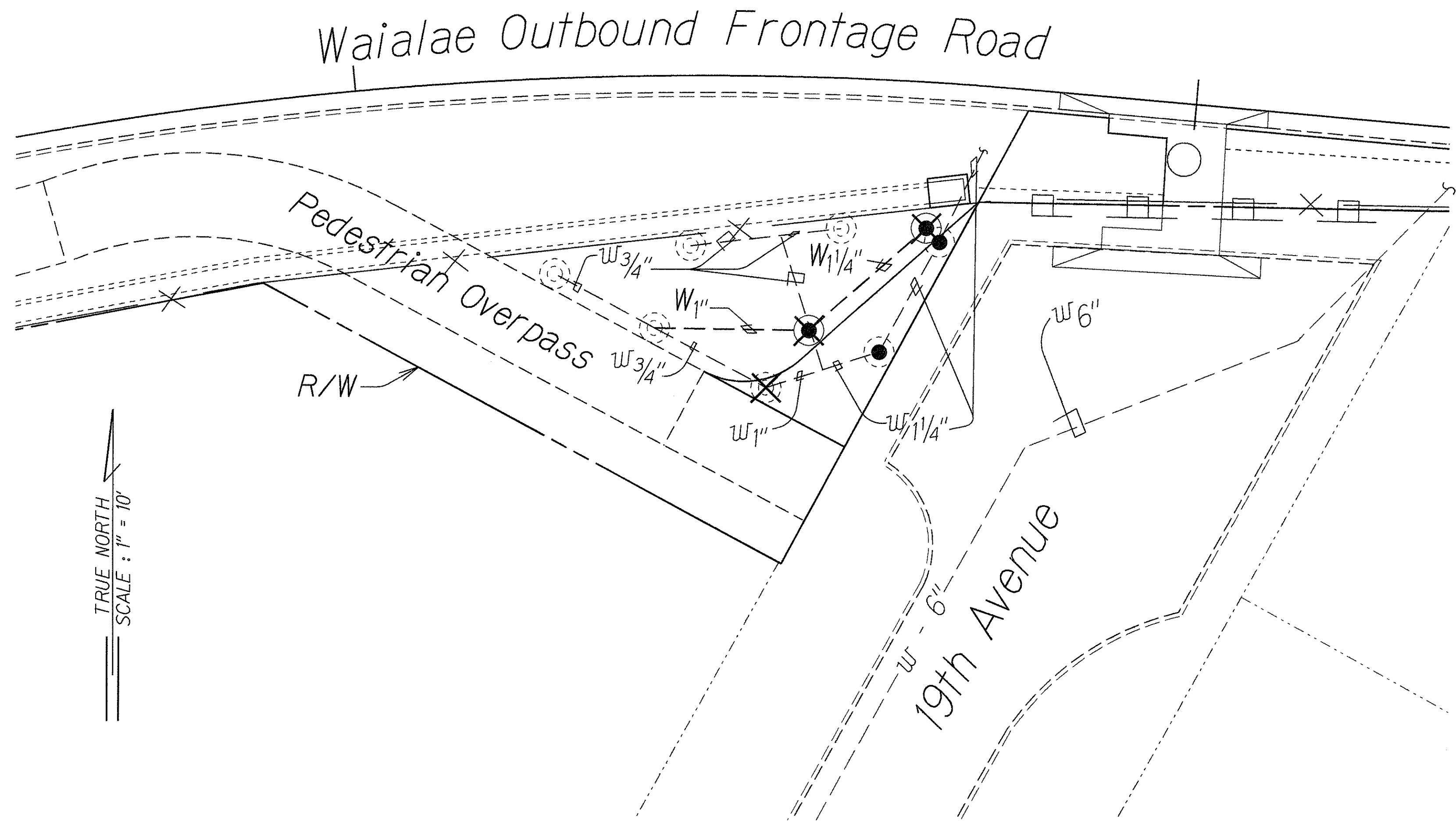
|                   |      |
|-------------------|------|
| ORIGINAL PLAN     | DATE |
| SURVEY PLOTTED BY |      |
| DESIGNED BY       |      |
| NOTES             |      |
| QUANTITIES BY     |      |
| CHECKED BY        |      |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

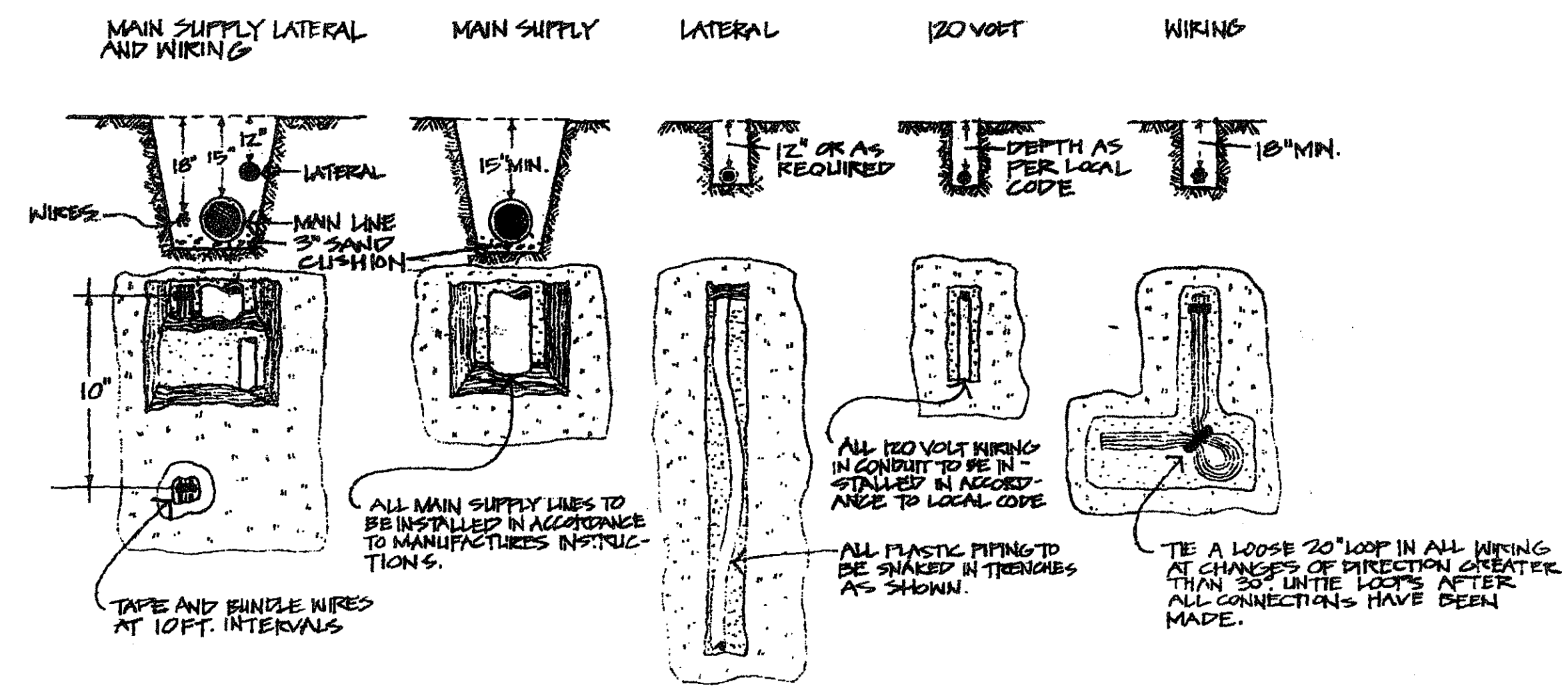
**SPRINKLER PLAN**  
Waialae Avenue Shoulder Improvements  
For Bicycle Lanes  
Kealaolu Avenue to Kalanianaʻole Highway  
and 17th Avenue to 21st Avenue  
Federal Aid Project No. CMAQ-0300(072)  
Scale: 1"=20' Date: June, 2000

SHEET No. 1 OF 2 SHEETS

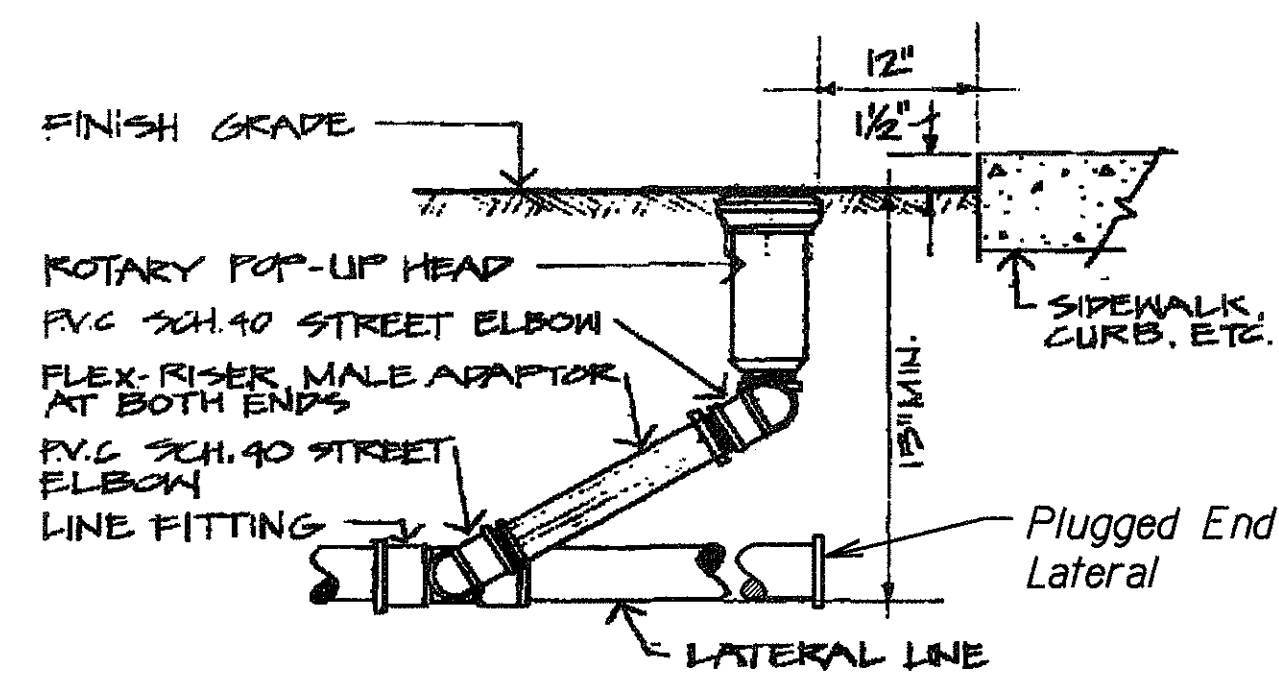
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | CMAQ-0300(072)     | 2000        | 60        | 60           |



**Plan**  
Scale: 1" = 1.0'



**TYPICAL TRENCHING DETAILS**  
NO SCALE



**ROTARY POP-UP HEAD DETAIL**  
NO SCALE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**SPRINKLER PLAN & DETAILS**

*Waialae Avenue Shoulder Improvements  
For Bicycle Lanes  
Kealaolu Avenue to Kalanianaʻole Highway  
and 17th Avenue to 21st Avenue  
Federal Aid Project No. CMAQ-0300(072)*

Scale: 1"=20' Date: June, 2000

SHEET No. 2 OF 2 SHEETS