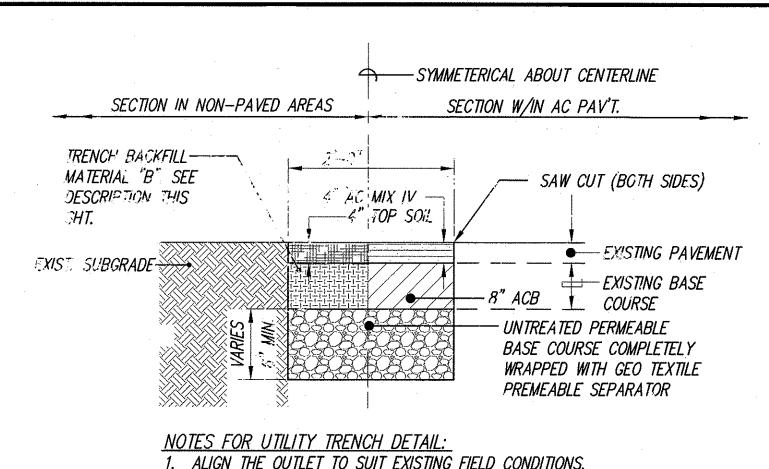


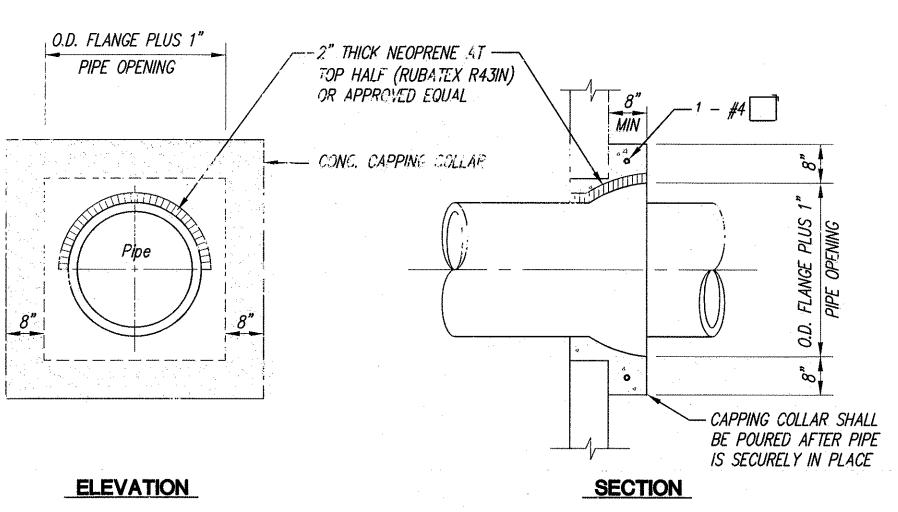
ASPHALT PAVEMENT RESTORATION OVER TRENCH EXCAVATIONS EXISTING PAVEMENTS WITHOUT PERMEABLE BASE W/IN STATE R/W NOT TO SCALE



- 1. ALIGN THE OUTLET TO SUIT EXISTING FIELD CONDITIONS. 2. AT THE EXISTING STRUCTURE, LOCATE THE OUTLET CONNECTION
- AWAY FROM THE MANHOLE RUNGS. 3. RESTORE AC PAVEMENT OVER OUTLET TRENCH TO MATCH EXISTING GRADE AND PROVIDE A SMOOTH RIDING CONNECTION.

# SECTION "B" UTILITY TRENCH DETAIL

NOT TO SCALE



# CONCRETE CAPPING COLLAR DETAIL

NOT TO SCALE

## TRENCH BACKFILL MATERIAL "A"

- 1. SAND EQUIVALENT (S.E.) >20 2. 8" MAXIMUM LIFTS
- 3. 95% COMPACTION

### TRENCH BACKFILL MATERIAL "B"

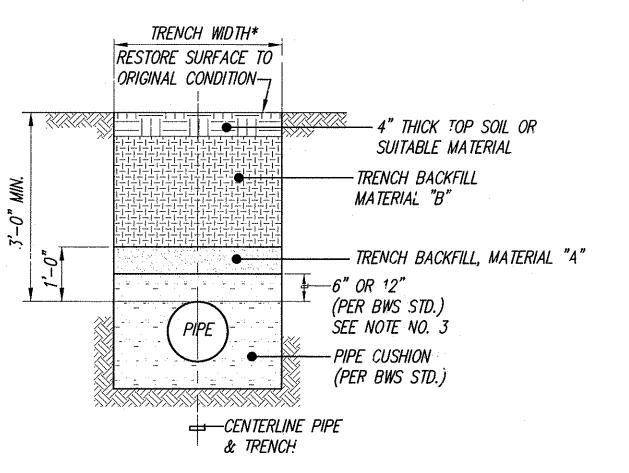
- 1. S.E. MUST NOT BE LESS THAN THE AREA BEING FILLED AND IN NO CASE SHALL THE S.E. BE < 2 REGARDLESS OF WHERE IT IS USED
- 2. 8" MAXIMUM LIFTS 3. 95% COMPACTION

#### SUBBASE COURSE 1. S.E. > 25

- 2. 8" MAXIMUM LIFTS
- 3. 95% COMPACTION

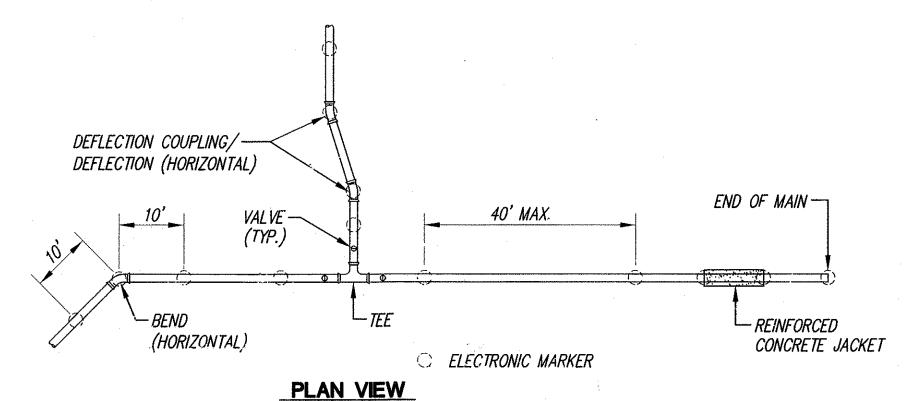
# WATER SERVICE LATERAL CUSHION MATERIAL

- 1. PROVIDE 6" MINIMUM CUSHION MATERIAL AROUND WATER SERVICE LAATERALS
- 2. CUSHION MATERIAL SHALL BE NO. 4 SAND OR OTHER MATERIAL APPROVED BY THE CITY & COUNTY OF HONOLULU, BOARD OF WATER SUPPLY



# TYPICAL SECTION FOR EXISTING UNPAVED SHOULDER SECTION WITHIN STATE RIGHT OF WAY

NOT TO SCALE



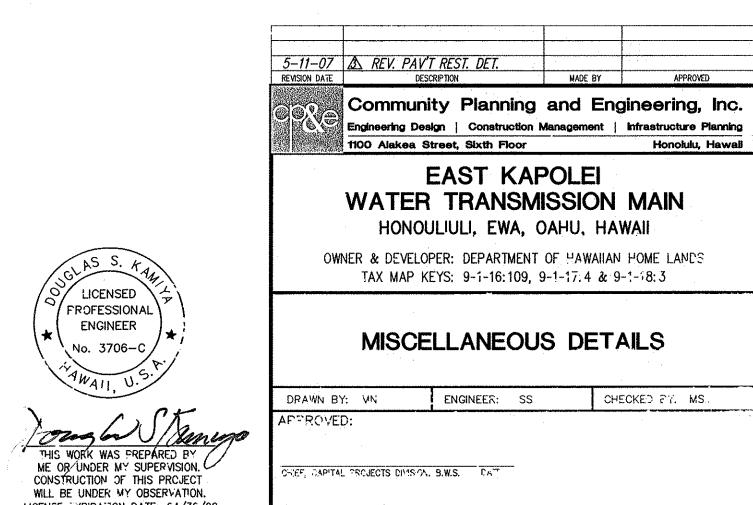
TRENCH BACKFILL ---ELECTRONIC MARKER -PIPE CUSHION -

- 1. INSTALL ELECTRONIC MARKER OVER CENTERLINE OF PIPE AT A MINIMUM DEPTH OF 2 FEET AND A MAXIMUM DEPTH OF 3 FEET FROM FINISH GRADE.
- 2. INSTALL TRENCH BACKFILL AND PIPE CUSHION MATERIAL IN ACCORDANCE TO THE PLANS AND SPECIFICATIONS.
- 3. INSTALL ÉLECTRONIC MARKER AT A MINIMUM CLEARANCE OF 6-INCHES WHERE POSSIBLE. INSTALL MARKERS ON OR ABOVE CONCRETE JACKETS.

## SECTION VIEW

# TYPICAL ELECTRONIC MARKER INSTALLATION

NOT TO SCALE



LICENSE EXPIRATION DATE: 64/30/08