

HTCO NOTES

1. The location of GTE Hawaiian Telephone Company's existing facilities are approximate only. The Contractor shall exercise extreme caution and shall maintain proper clearances whenever construction crosses or is in close proximity to GTE Hawaiian Telephone Company's facilities. The Contractor shall verify their locations and shall be liable for any damages to GTE Hawaiian Telephone Company's facilities. Any damages shall be reported immediately to GTE Hawaiian Telephone Company's Repair Section at 611 (24 Hours) or to the Excavation Permit Section at 840-1444 (normal work day hours, Monday thru Friday, except holidays).
2. For underground cable locating and marking, five working days advance notice is required. Three working days advance notice is required for any inspection by a designated representative.
3. The Contractor shall obtain an excavation permit and toning request from GTE Hawaiian Telephone Company's Excavation Permit Section located at 3239 Ualena Street, 3rd floor, two weeks prior to the start of construction. Hours of business are 7:00 a.m. to 10:30 a.m. and 11:30 a.m. to 3:00 p.m., Monday thru Friday, except holidays.
4. The Contractor shall take necessary precaution not to damage any existing cables or conduits. Any work involving GTE Hawaiian Telephone Company cables or conduits shall be done in the presence of a GTE Hawaiian Telephone Inspector or designated representative.
5. When excavation is adjacent to or beneath GTE Hawaiian Telephone Company's existing structures or facilities, the Contractor shall
- a. sheet and/or brace the excavation to prevent slides, cave-ins, or settlements to ensure no movement to GTE Hawaiian Telephone Company's structure or facilities.
- b. protect existing structures and/or facilities with beams, struts, or underpinning while excavating beneath them to ensure no movement to GTE Hawaiian Telephone Company's structure or facilities.
6. The Contractor shall notify GTE Hawaiian Telephone Company's Inspector or designated representative a minimum of 72 hours prior to excavation, bracing, or backfilling of GTE Hawaiian Telephone Company's structure or facilities.

RAILROAD TRACK CROSSING NOTES

1. For the railroad track crossing, the Contractor shall install conduits so as not to disturb the existing railroad track and petroleum lines. The Contractor shall consider directional drilling or other trenchless methods. This work shall not be paid for separately but considered incidental to conduit cost.
2. Should the railroad track be disturbed, the Contractor shall:
- a. Repair and reconstruction of the tracks shall be in accordance with the current edition of the American Railway Engineering Association (A.R.E.A.) "Manual for Railway Engineering" and State of Hawaii, Highways Division "Standard Specifications for Road and Bridge Construction". Work shall be done at the contractor's expense.
- b. One week prior to starting work on the road road track, contact Larry Howard at 681-5461 or Ben Schlapak at 838-8821 of the Hawaiian Railway Society. Work on the railroad track shall be coordinated and approved by the Hawaiian Railway Society, P.O. Box 60369, Ewa Station, Ewa Beach, Hawaii 96706.
- c. Contractor shall notify the Hawaiian Railway Society and State Department of Land and Natural Resources, Historic Preservation Division at 692-8015 prior to completion of the railroad crossing so that a final inspection can be conducted to verify satisfactory re-installation of tracks.

CHEVRON NOTES

1. Storage of material on the easement shall be avoided.
2. Chevron's Company Representative will stake the pipelines at the Contractor's request. Determination of the pipeline elevations shall be the Contractor's responsibility and at the Contractor's expense.
3. The pipeline easement access road must be kept open at all times. Authorization to block access roads at any time during the construction period must be obtained from Chevron Products Company.
4. Sewer and electrical conduit crossings should be kept a minimum of four feet clear below Chevron's pipelines for the full easement width. If this condition cannot be met, the crossings should be encased in six inches of concrete, with a minimum two feet clear below Chevron's pipelines. Crossings above Chevron's pipelines are not permitted.
5. Trenches across the pipelines shall be limited to a maximum width of five feet unless the lines are supported in a manner accepted in advance by Chevron Products Company.
6. All excavations and backfilling operations in Chevron's easement must be witnessed by a Chevron Company Representative. Contractor shall provide Chevron with 48 hours notice prior to beginning work within Chevron's easement. All backfill material within six inches of Chevron's pipelines must be finely graded dirt or sand. All excavations within two feet of Chevron's pipelines must be accomplished by hand digging. Work shall be handled in an expeditious manner in order to keep Chevron's pipelines uncovered for as short a period as possible.
7. All costs pertaining to damage of Chevron's pipelines, their coatings, or the cathodic protection devices, or damage of property and injury to persons caused directly or indirectly by this work, will be to the Contractor's account. Any repair work on the lines resulting from the Contractor's activities shall be performed by Chevron Products Company and billed to the Contractor.

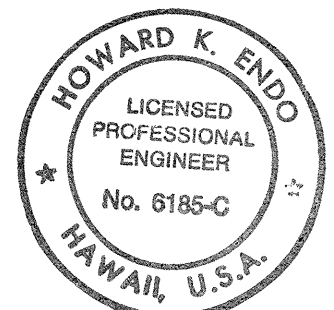
ABBREVIATIONS

A.C.	Asphalt Concrete	Max.	Maximum
Ave.	Avenue	Min.	Minimum
BL	Base Line	Mon.	Monument
CL	Center Line	No.	Number
CL	Clear	O.C.	On Center
Conc.	Concrete	O.D.	Outside Diameter
Dept.	Department	O/S	Offset
Det.	Detail	Pav't	Pavement
DOT	Department of Transportation	PPB	Pedestrian Push Button
E.W.	Each Way	RCP	Reinforced Concrete Pipe
Exist.	Existing	Req'd	Required
Exist. grd.	Existing grade	Rt.	Right
Ft.	Feet	R/W	Right-of-Way
Fin. Grd.	Finish Grade	Shldr.	Shoulder
Galv.	Galvanize	Sht.	Sheet
GDI	Grated Drop Inlet	Sta.	Station
Hwy.	Highway	Std.	Standard
Inv.	Invert	Typ.	Typical
L.F.	Linear Feet	W.W.F.	Welded Wire Fabric
Lt.	Left	usn	United States Navy

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(6)	2001	5	33

LEGEND

—acc—	Existing Army Signal Corp Cable
—e—	Existing Electrical Line
○jp	Existing Joint Pole
○pp	Existing Power Pole
○emh	Existing Electric Manhole
—t—	Existing Telephone Line
○tp	Existing Telephone Pole
○tmh	Existing Telephone Manhole
□tpb	Existing Telephone Pullbox
—w-12—	Existing Water Line w/ Size
○wmh	Existing Water Manhole
○av	Existing Water Air Valve
○wv	Existing Water Valve Box
□wm	Existing Water Meter
⊙fh	Existing Fire Hydrant
○mon.	Existing Monument
—d24—	Existing Drain Line w/ Size
○dmh	Existing Storm Drain Manhole
■di	Existing Drop Inlet
□cb	Existing Catch Basin
○smh	Existing Sewer Manhole
—s30—	Existing Sewer Line w/ Size
—sfm30—	Existing Sewer Force Main w/ Size
—x—	Existing Chain Link Fence
p	Existing Traffic Sign With 1 Post
⌋	Existing Traffic Sign With 2 Posts
⊙	Existing Highway Lighting Standard
□slb	Existing Street Light Box
○ts	Existing Traffic Signal Standard
□tsb	Existing Traffic Pullbox
—ts—	Existing Traffic Signal Ducts
—g6—	Existing Gas Line w/ Size
○gv	Existing Gas Valve
□lcatv	Existing Cable TV Box
⌋	Existing Junction Box
⌋	New Junction Box
---icpb 70	Existing Interconnect Pullbox # No.
---ICPB 70	New Interconnect Pullbox # No.



THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION  
SHIMABUKURO, ENDO & YOSHIZAKI, INC.  
1126 12TH Avenue  
Honolulu, Hawaii 96816

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**NOTES, ABBREVIATIONS  
AND LEGEND**

Fort Weaver Road  
Traffic Signal Modernization  
Federal-Aid Project No. CMAQ-076-1(6)

Date: Sept., 2000