

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	90B-01-70	1971	2	16

GENERAL NOTES

- Design Specs. : Standard Specs. for Highway Bridges, AASHTO, 10th Edition, 1969, incl. Interim Specs., 1970.
- Live Load = 85 PSF
- Conc.

Class	f _c psi	f _{ci} psi	f _c psi	n
Prestressed piles	5,000	4,000		
Prestressed Girders	5,000	4,000		
Precast slabs	4,000		1,600	8
Others when not shown	3,000		1,200	10

- Reinf. bars : Deformed, ASTM A615-68.

Grade	f _y ksi	f _s ksi	f _s ksi
Precast planks	60	60	30
Others (when not indicated) otherwise	40	40	20
			16

- Prestressed strands : Uncoated, stress relieved 7 wire strands, ASTM 416.

Size	Ultimate Strength (kips)	Tension Load (kips)	Design Load (kips)
Prestressed piles, 7/16"	27.0	18.0	15.12
Prestressed girders, 1/2"	41.3	28.91	23.55

- Piles : Type II, Design load = 50 tons. Pile tip elevations shown are for estimating purposes only. Piles shall be driven to bearing values of not less than the design load, as determined by the formulas in the specifications, regardless of the pile tip elevations.

- Reinforcing shall be detailed in accordance with ACI Manual of Std. Practice for Detailing Reinf. Conc. Highway Structures unless otherwise noted.
- Conc. cover for reinforcing bars shall be as follows, unless otherwise noted:
 - 1 1/2" : beam & girder stirrups.
 - 2" : column ties, formed walls.
 - 3" : footings.

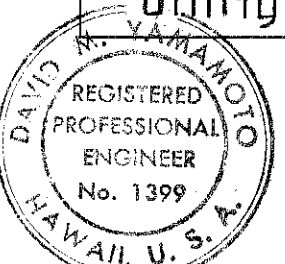
Note: General Notes to continue on shd. 3.

ESTIMATED BRIDGE QUANTITIES

Structural excavation	204	C.y.
Concrete		
Footings (Lump Sum)	(54 C.y.)	Lump Sum
Other than footings	(230 C.y.)	Lump Sum
*Reinforcing Steel	(58,200 #)	Lump Sum
Prestressed Girder	(330 L.F.)	Lump Sum
Precast Slabs	(2,084 S.F.)	Lump Sum
Piles: Furnishing test piles	130	lin. ft.
Furnishing other piles	1,875	lin. ft.
Predrilling	42	lin. ft.
Driving test piles	112	lin. ft.
Driving other piles	1,711	lin. ft.
Railing (Struct. tubing)	845	lin. ft.
Handrail	598	lin. ft.

*Reinf. steel in prestressed girders, precast planks and piles are included in those items and are not included under reinf. steel.

These quantities do not include sitework such as utility line work, sidewalks, retaining walls, etc.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Approved to construct over Sewer Easement.

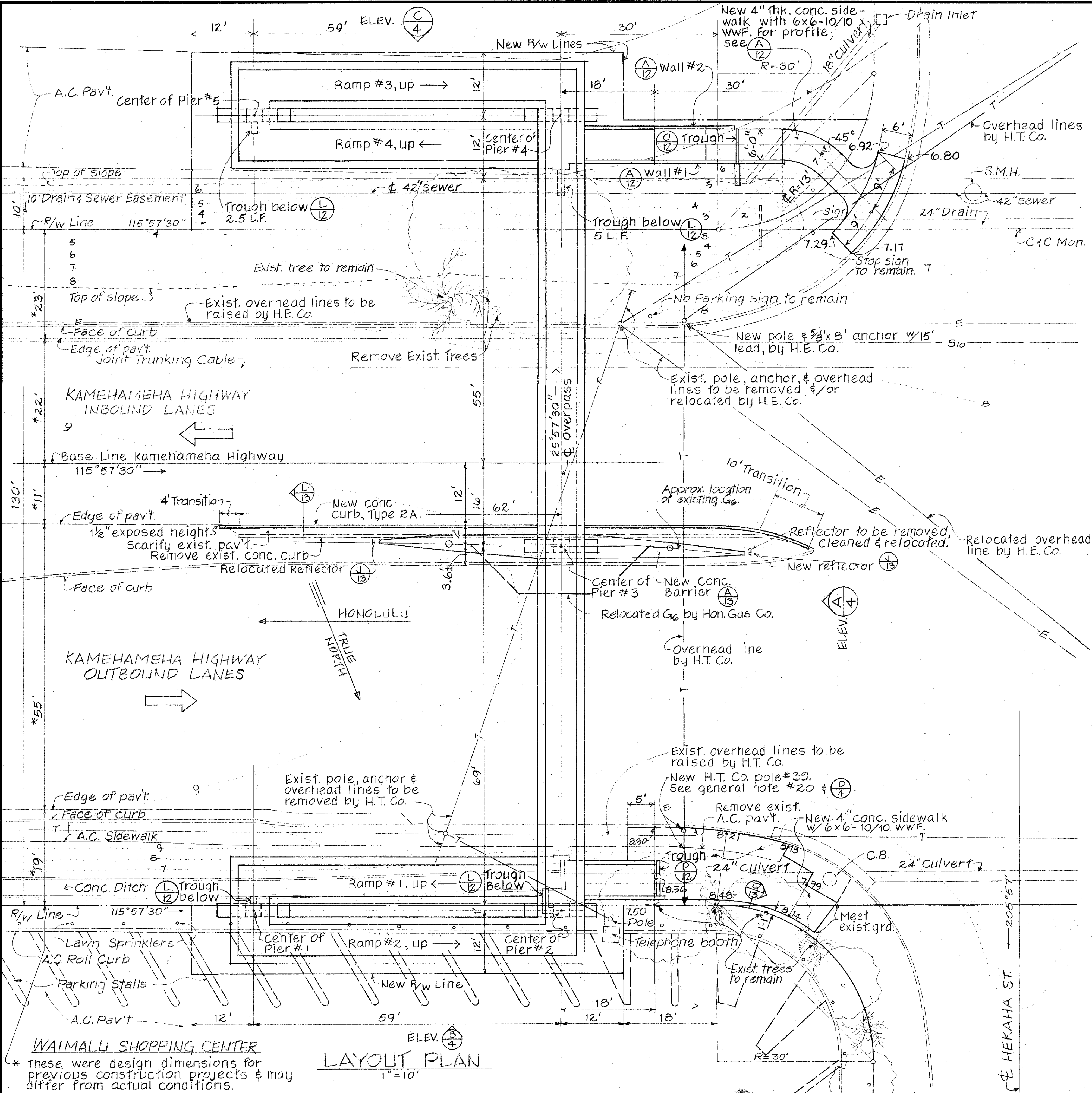
Chief Div. of Sewers Date

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LAYOUT PLAN

WAIMALLI PEDESTRIAN OVERPASS
PROJECT NO. 90B-01-70

SHEET No. 1 OF 16 SHEETS



DATE	
DESIGNED BY	
TRACED BY	
QUANTITIES BY	
REVIEWED BY	
ORIGINAL PLAN	
NOTE BOOK	

WAIMALLI SHOPPING CENTER

* These were design dimensions for previous construction projects & may differ from actual conditions.

LAYOUT PLAN
1"=10'