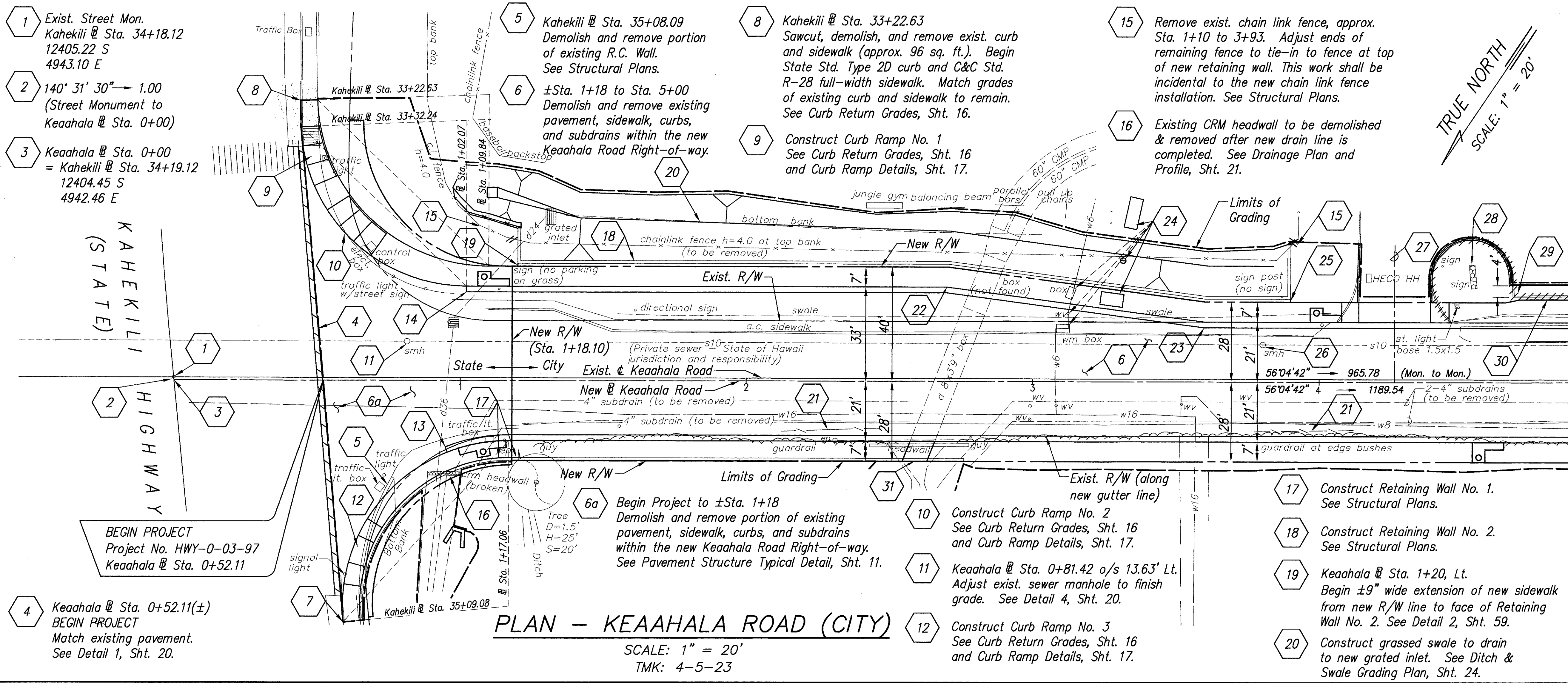


146°
PM: STY
OPER: SAIMNN*RCQ,MSM,MNN
REVIS: 04/24/00

FILE: DOT95106
SCALE: 1"=20'
BEG: 5/3/97

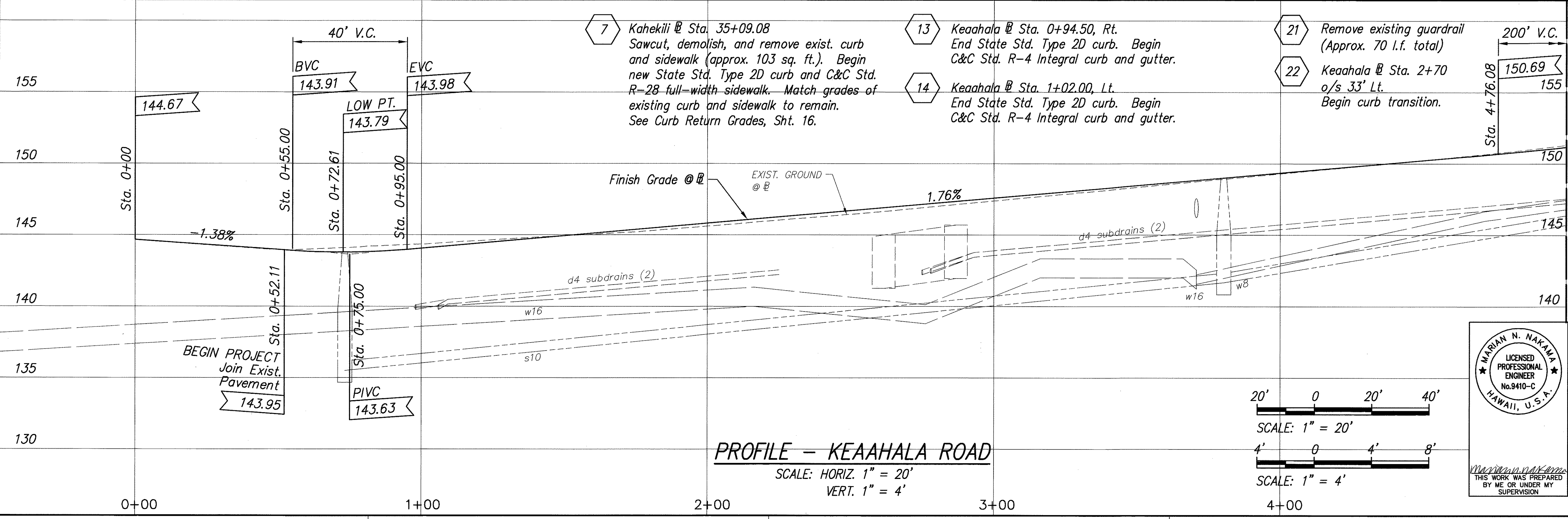
SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTEBOOK	
No.	



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-03-97	2000	13	110

- 23 Kealahala @ Sta. 3+59.98 o/s 21' Lt. End curb transition.
 - 24 Exist. Water Meter Boxes and Valves to be relocated. See Sheet 25.
 - 25 Kealahala @ Sta. 3+90, Lt. End ±9" wide sidewalk extension (at end of Retaining Wall No. 2)
 - 26 Kealahala @ Sta. 3+81.00 (approx.) o/s 13' Lt. Adjust exist. sewer manhole to finish grade. See Detail 4, Sht. 20.
 - 27 Kealahala @ Sta. 4+26.33 Construct 25' wide concrete Driveway Apron "A." Adjust existing driveway to match new construction. See Driveway Details, Sht. 18.
 - 28 Demolish and remove CRM base of existing park sign. Salvage sign and posts, and reconstruct at new entrance. See Sht. 14.
 - 29 Existing Concrete Curb to be demolished. See sheet 18 for work within Parking Lot.
 - 30 Kealahala @ Sta. 4+83, Lt. Construct 8' wide sidewalk for bus stop. See Detail 5, Sht. 20.
 - 31 Construct special expansion joints in sidewalk above box culvert extension. See Structural Plan, Detail 1, Sht. 62.
- Note: See General Plan, Sheets 7 & 8, for complete Limits of Grading.

PLAN - KEAAHALA ROAD (CITY)
SCALE: 1" = 20'
TMK: 4-5-23



APPROVED:

M. J. [Signature] S/4/00
Chief, Civil Engineering Branch
Dept. of Planning & Permitting
City & County of Honolulu

[Signature] S/4/00
Chief, Traffic Review Branch
Dept. of Planning & Permitting
City & County of Honolulu
(For work within City R/W only)

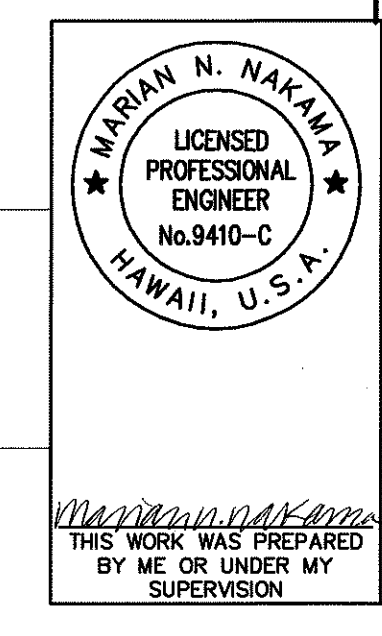
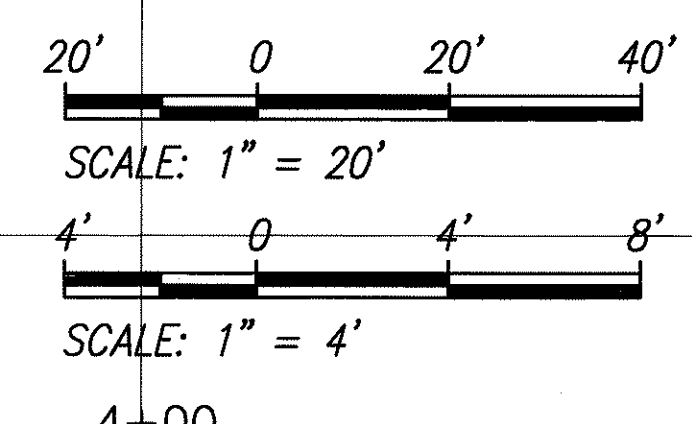
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROAD PLAN & PROFILE
STA. 0+00 TO STA. 5+00

KEAAHALA ROAD WIDENING
KAHEKILI HIGHWAY TO PO'OKELA STREET
State Project No. HWY-0-03-97

Scale: As shown Date: April 2000
SHEET NO. C-13 OF C-55 SHEETS

PROFILE - KEAAHALA ROAD
SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'

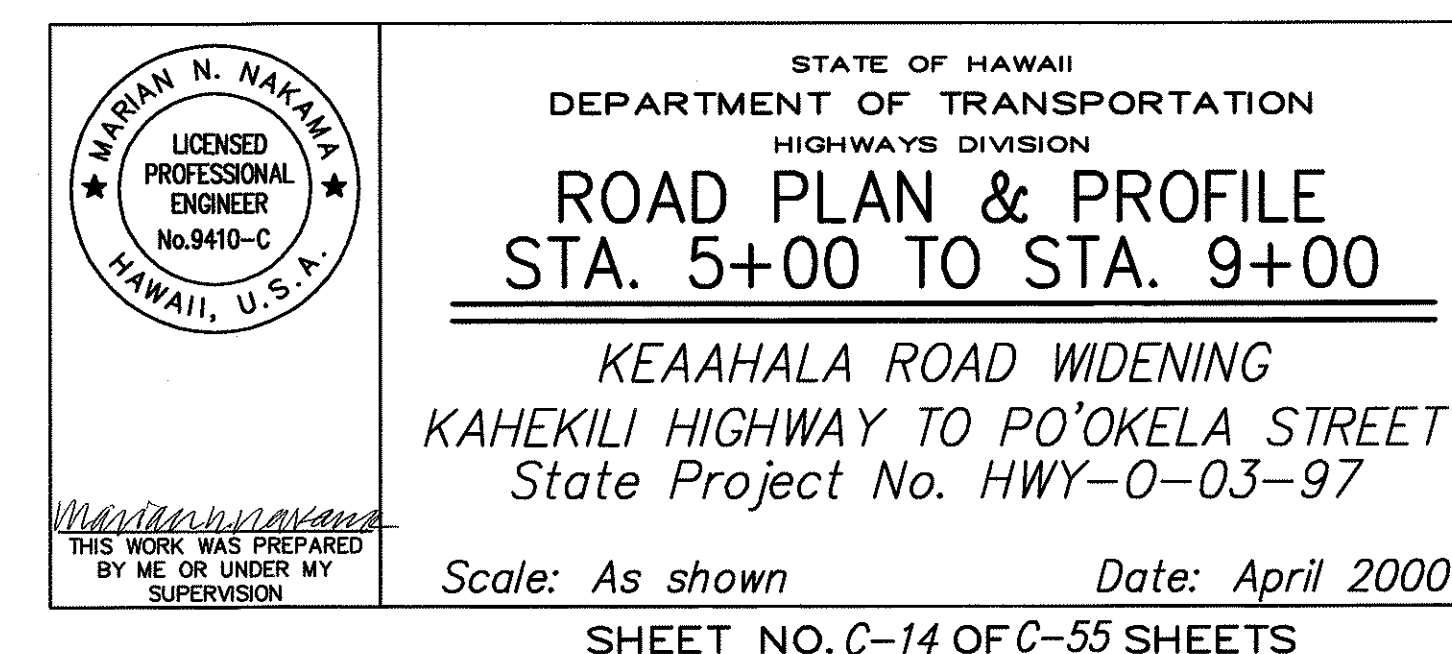


- 1 Demolish & remove existing pavement, sidewalk, curb, and subdrains within the new Keaahala Road Right-of-way.
- 2 Keaahala @ Sta. 6+81.28 o/s 13.23' Lt.
Adjust existing sewer manhole to finish grade. See Detail 4, Sht. 20.
- 3 Existing concrete curb to be demolished. See Sheet 18 for work within parking lot.
- 4 Reconstruct park sign with new CRM base. Exact location and orientation to be determined by park personnel. See Detail M-1 of "Parks Standard Details" of the City & County of Honolulu Dept. of Parks and Recreation, May 1990.
- 5 Keaahala @ Sta. 6+99.22
Construct 25' wide concrete Driveway Apron "B"
Adjust exist. driveway to match new construction
See Driveway Details, Sht. 18.
- 6 Keaahala @ Sta. 7+29.31
Construct Curb Ramp No. 4.
See Sht. 17.

6 Kealahala B Sta. 7+29.31
Construct Curb Ramp No 4.
See Sht. 17.

M. Freeman 5/4/00
Chief, Civil Engineering Branch
Dept. of Planning & Permitting
City & County of Honolulu

B. L. Hines 4/21/00
Chief, Traffic Review Branch
Dept. of Planning & Permitting
City & County of Honolulu
(For work within City R/W only)



The profile view of Keaahala Road shows the vertical alignment and drainage details. The vertical axis represents elevation in feet, ranging from 135 to 170. The horizontal axis represents stationing, ranging from 5+00 to 8+00. The existing ground is shown as a dashed line, and the proposed finish grade is shown as a solid line. The finish grade has a constant upward slope of 5.85%. Key points on the profile include the PIVC (Proposed Vertical Curve) at station 5+76.08 with an elevation of 152.45, and the EVC (Existing Vertical Curve) at station 6+76.08 with an elevation of 158.30. The horizontal distance between these two points is 200 feet. The profile also shows the location of 4 subdrains (2) and the proposed drainage system, including a 10-foot wide ditch (s10) and an 8-foot wide ditch (w8). The scale is 1 inch = 20 feet horizontally and 1 inch = 4 feet vertically.

PROFILE - KEAAHALA ROAD

SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'

PROFILE - KEAAHALA ROAD

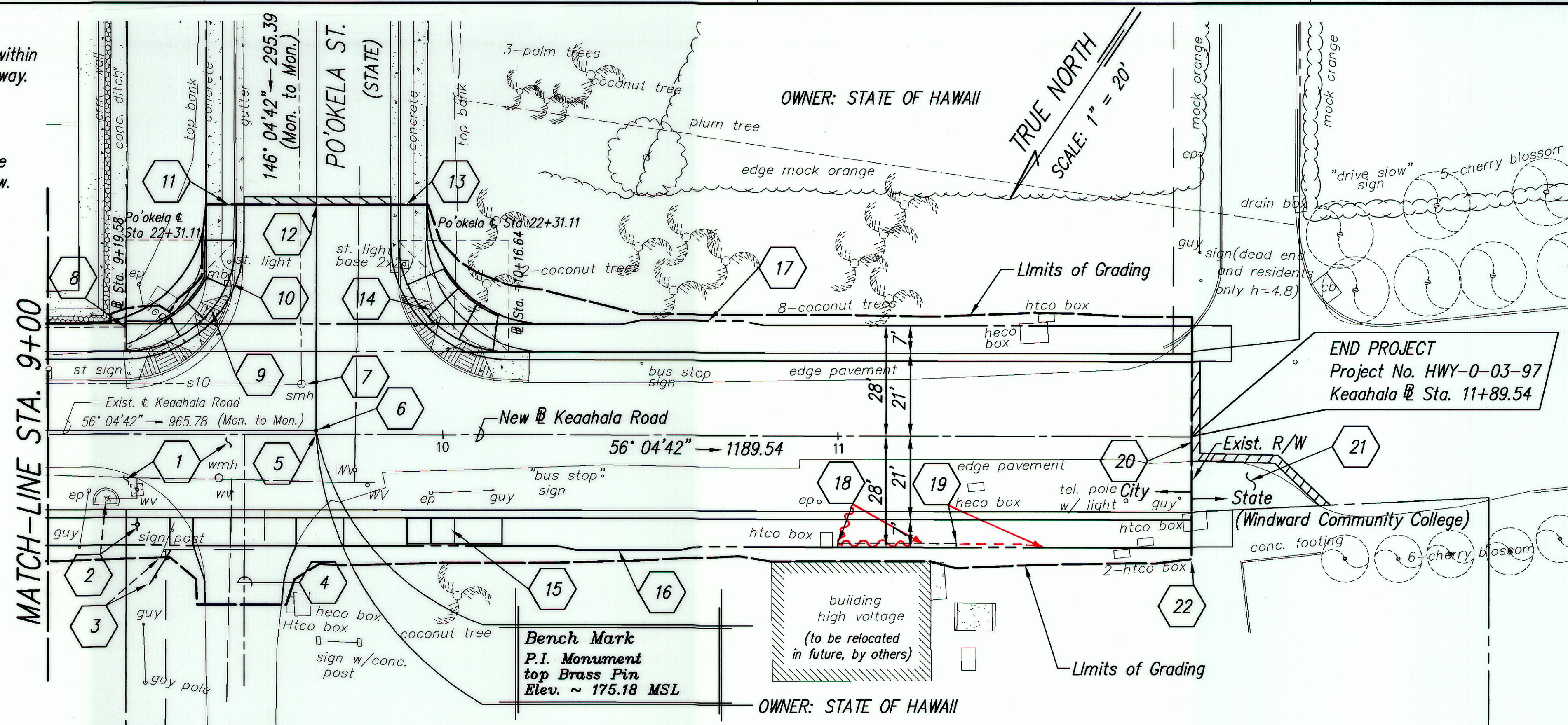
SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'

PM: STY 146*
OPER: SAI,MNN,*RGQ,MSM
REVISED: 04/24/00

FILE: DOT95107
SCALE: 1=20
BEG: 5/3/97

ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
NOTEBOOK	DRAWN BY _____
	TRACED BY _____
	DESIGNED BY _____
	QUANTITIES BY _____
No. _____	CHECKED BY _____

- 1 Demolish & remove all exist. pavement, sidewalk and curb within new Keaahala Road Right-of-way.
- 2 Keaahala @ Sta. 9+15
Exist. fire hydrant #2299 to be removed and replaced with new. See Sht. 26.
- 3 Relocate existing Windward Health Center sign outside new right-of-way. Final location and orientation of sign to be coordinated with Health Center personnel.
- 4 Keaahala @ Sta. 9+49.86
Construct 26' wide conc. Driveway Apron "D"
Adjust exist. driveway to match new construction. See Driveway Details, Sht. 19.
- 5 Road Intersection
Keaahala @ Sta. 9+67.91
= Po'okela @ Sta. 22+80.12
- 6 Adjust existing street survey monument frame and cover Keaahala @ Sta. 9+67.91 o/s 1.00' Lt.
= Po'okela @ Sta. 22+79.12
Coordinates:
12945.43 S
4139.84 E
Top Pin Elev. = 175.18



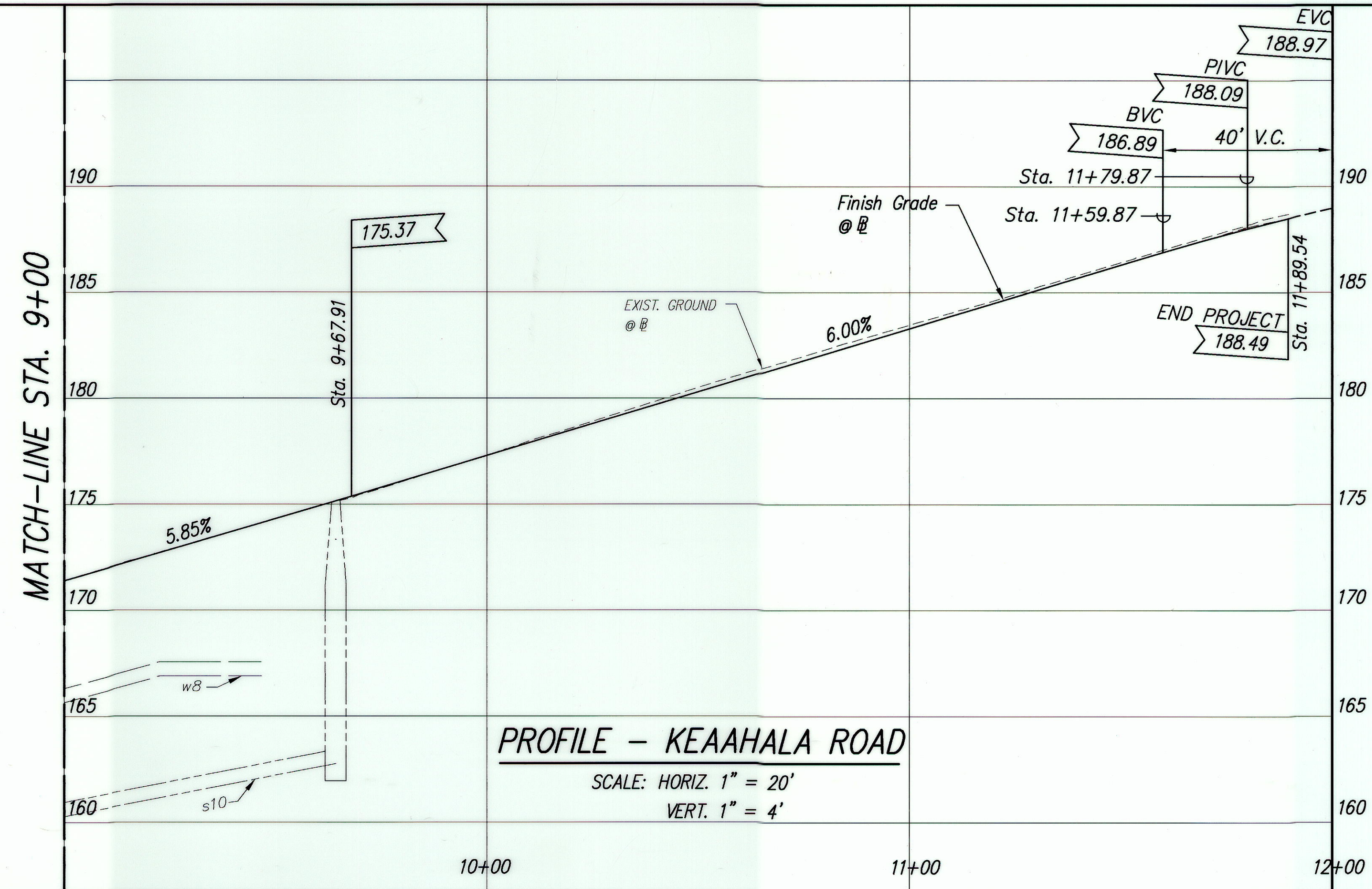
PLAN - KEAAHALA ROAD (CITY)

SCALE: 1" = 20'
TMK: 4-5-23

Note: See General Plan, Sheets 7 & 8 for complete limits of grading.

- 7 Keaahala @ Sta. 9+64.26
o/s 12.76' Lt.
Adjust existing sewer manhole to finish grade. See Detail 4, Sht. 20.
- 8 Keaahala @ Sta. 9+19.58 Lt.
End grade adjustment wall.
- 9 Construct Curb Ramp No. 6
See Curb Return Grades, Sht. 16 and Curb Ramp Details, Sht. 17
- 10 Relocate existing U.S. Postal Service (USPS) mail drop box during construction. Re-install in new sidewalk. Contractor to coordinate this work with USPS personnel.
- 11 Po'okela @ Sta. 22+22.12 (Rt.)
End new curb, gutter, and sidewalk. Match existing grades. See Curb Return Grades, Sht. 16.
- 12 Po'okela @ Sta. 22+22.12
End new pavement. Provide smooth-riding connection to existing pavement. See Detail 2, Sht. 20.
- 13 Po'okela @ Sta. 22+22.12 (Lt.)
Begin C&C Std. R-4 Integral curb and gutter and C&C Std. R-28 full-width sidewalk. Match grades of existing curb and sidewalk to remain. See Curb Return Grades, Sht. 16.
- 14 Construct Curb Ramp No. 7
See Curb Return Grades, Sht. 16 and Curb Ramp Details, Sht. 17
- 15 Keaahala @ Sta. 10+00
Construct Curb Ramp No. 8
See Curb Ramp Details, Sht. 17.
- 16 Keaahala @ Sta. 10+47 Rt.
Construct 8' wide sidewalk for bus stop. See Detail 5, Sht. 20.
- 17 Keaahala @ Sta. 10+63 Lt.
Construct 8' wide sidewalk for bus stop. See Details, Sht. 20.
- 18 Keaahala @ Sta. ~~11+00 Rt.~~ 11+21.5 Rt.
Begin grade adjustment wall. See detail 6, Sht. 20.
- 19 Keaahala @ Sta. ~~11+30 Rt.~~ 11+51.5 Rt.
End grade adjustment wall
- * 20 Keaahala @ Sta. 11+89.54
END PROJECT
End new pavement. Provide smooth-riding connection to existing pavement. See Detail 2, Sht. 20.
- * 21 Clear existing unpaved area to property line (approx. 32 S.Y.). Excavate to depth equivalent of subgrade, and construct pavement. Provide smooth-riding connection to existing pavement.
- * 22 Keaahala @ Sta. 11+89.54
End sidewalk, curb, and gutter. Transition to existing ground (Approx. 10' wide) with C&C Mix 4 A.C. ramp, each side.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-03-97	2000	15	110



PROFILE - KEAAHALA ROAD

SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'

APPROVED:

M. T. [Signature] 5/4/00
Chief, Civil Engineering Branch
Dept. of Planning & Permitting
City & County of Honolulu

[Signature] 4/21/00
Chief, Traffic Review Branch
Dept. of Planning & Permitting
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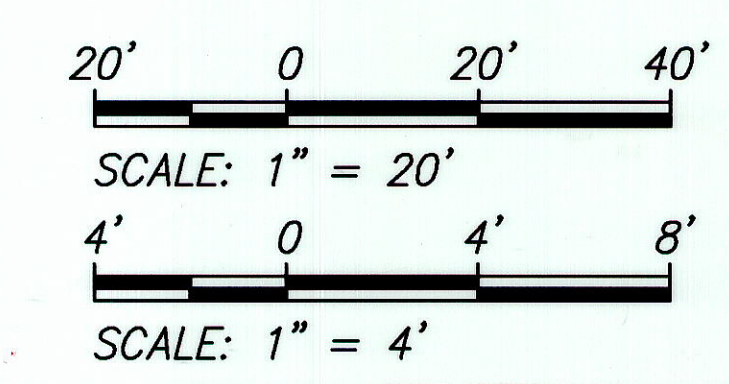


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROAD PLAN & PROFILE
STA. 9+00 TO END

KEAAHALA ROAD WIDENING
KAHEKILI HIGHWAY TO PO'OKELA STREET
State Project No. HWY-0-03-97

Scale: As shown Date: April 2000
SHEET NO. C-15 OF C-55 SHEETS



"AS-BUILT"

PM: STY 146
OPER: SAI*RGQ,MIN,RMK,MSM
REVISED: 04/24/00

FILE: DOT95108
SCALE: 1"=20'
BEG: 5/3/97

DATE	SURVEY PLOTTED BY	DRAWN BY	DESIGNED BY	CHECKED BY