

WATER NOTES

1. Unless otherwise specified, all materials and construction of water system facilities and appurtenances shall be in accordance with the Honolulu Board of Water Supply's WATER SYSTEM STANDARDS, dated July, 1962, and all subsequent amendments and revisions.
2. All plans approved by the Board of Water Supply are based solely on the adequacy of the water supply. All other features of the water system such as lines, grades, fittings, etc. shall be the responsibility of the Engineer who designed the plans. Drainage and other features of the project shall not be the responsibility of the Board of Water Supply.
3. Asterisk (*) shown on the plans indicates work to be performed by Board of Water Supply. Materials to be furnished by Contractor.
4. Prior to excavating for new drain, sewer or other utility lines, the Contractor shall verify in the field the location of existing water mains and appurtenances. Where the installation of new drain, sewer or other utility lines are to cross over or under existing water mains, the Contractor shall expose the existing water mains prior to trenching. Excavation around water mains shall be done by hand.
5. The Contractor shall notify the Board of Water Supply in writing one week prior to commencing work on the main.
6. The existence and location of underground utilities and structures as shown on the plans are from the latest available data but is not guaranteed as to the accuracy or the encountering of other obstacles during the course of the work. The Contractor shall be responsible and shall pay for all damages to existing utilities.
7. Test pressure shall be 150 p.s.i.
8. In the event that water mains other than cast iron is to be used, the plans shall be resubmitted for approval.

NOTE: Design Grade Line (D.G.L.) 14' Left of 12 ends at Sta. 40+74.25. From Sta. 41+14.66 to Sta. 44+82.88 D.G.L. is the same as the 12.

CURB DATA

16	17
$\Delta = 33^{\circ}19'12''$	$25^{\circ}51'56''$
$\frac{1}{2} = 16^{\circ}39'36''$	$12^{\circ}55'58''$
$R = 73.00$	470.00
$T = 22.44$	112.52
$C = 43.00$	219.33
$Lc = 43.62$	221.21

CURVE DATA

18
$\Delta = 39^{\circ}35'54''$
$\frac{1}{2} = 19^{\circ}47'57''$
$R = 482.73$
$T = 173.78$
$C = 327.03$
$Lc = 333.63$

SECTION FIRE HYDRANT PAD DETAIL

NOT TO SCALE

PLAN

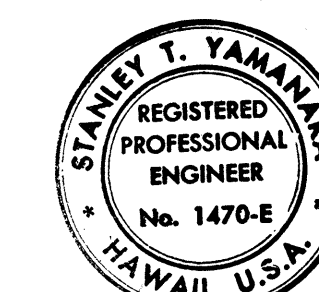
SCALE: 1"=40'

PROFILE

SCALE: Hor. 1"=40'
Vert. 1"=4'

PROFILE OF NEW 12" C.I. W.L.

R. M. TOWILL CORPORATION
ENGINEERS - SURVEYORS
HONOLULU, HAWAII



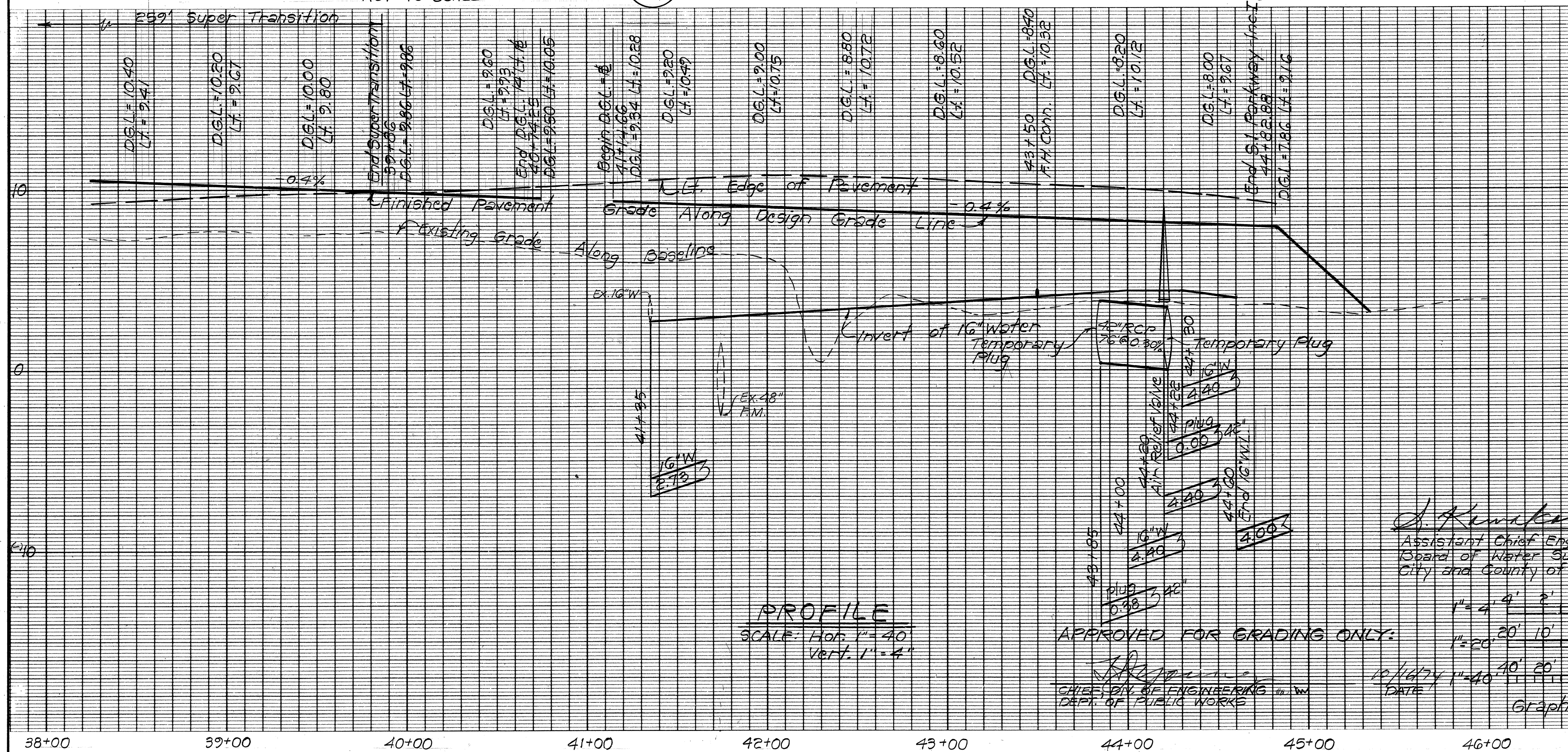
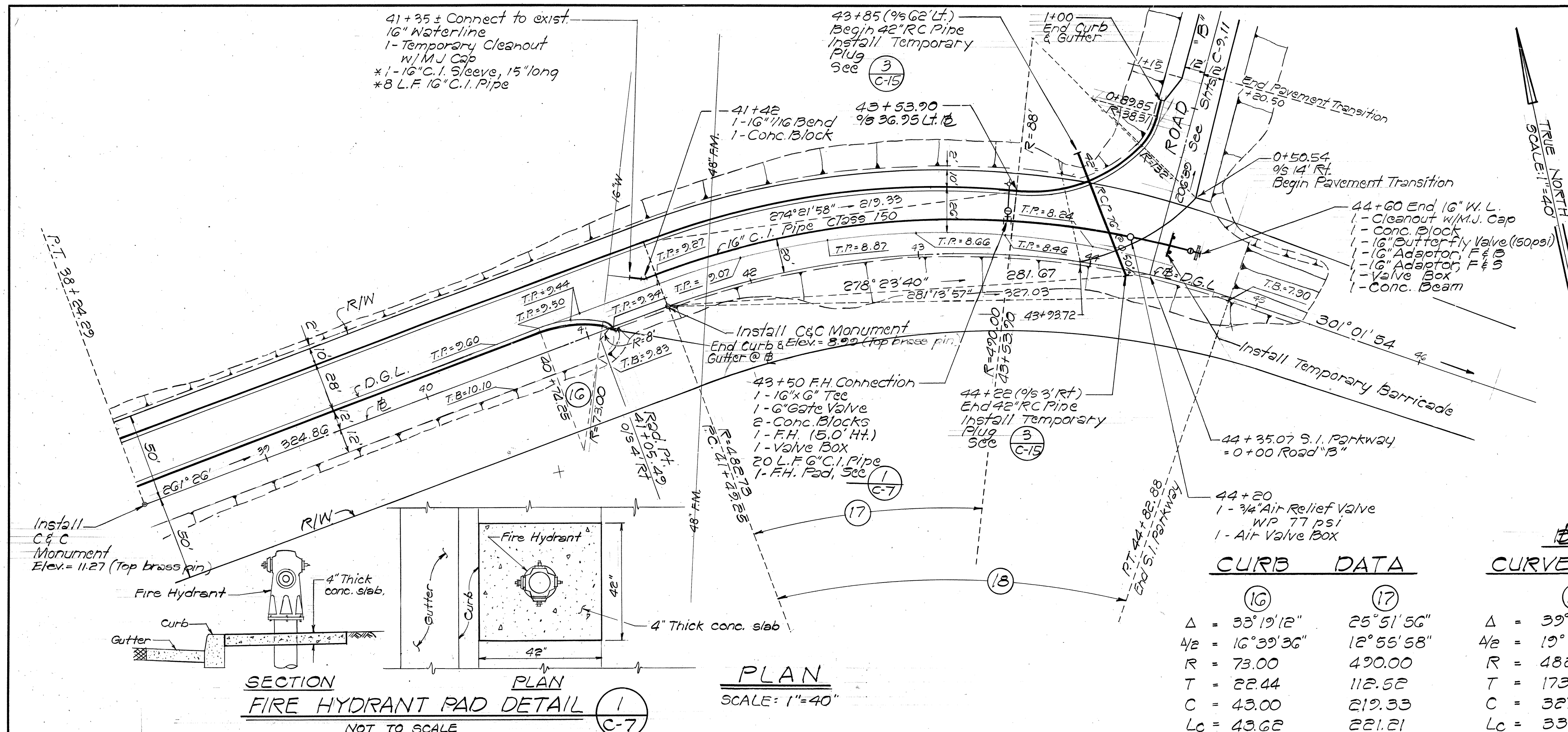
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

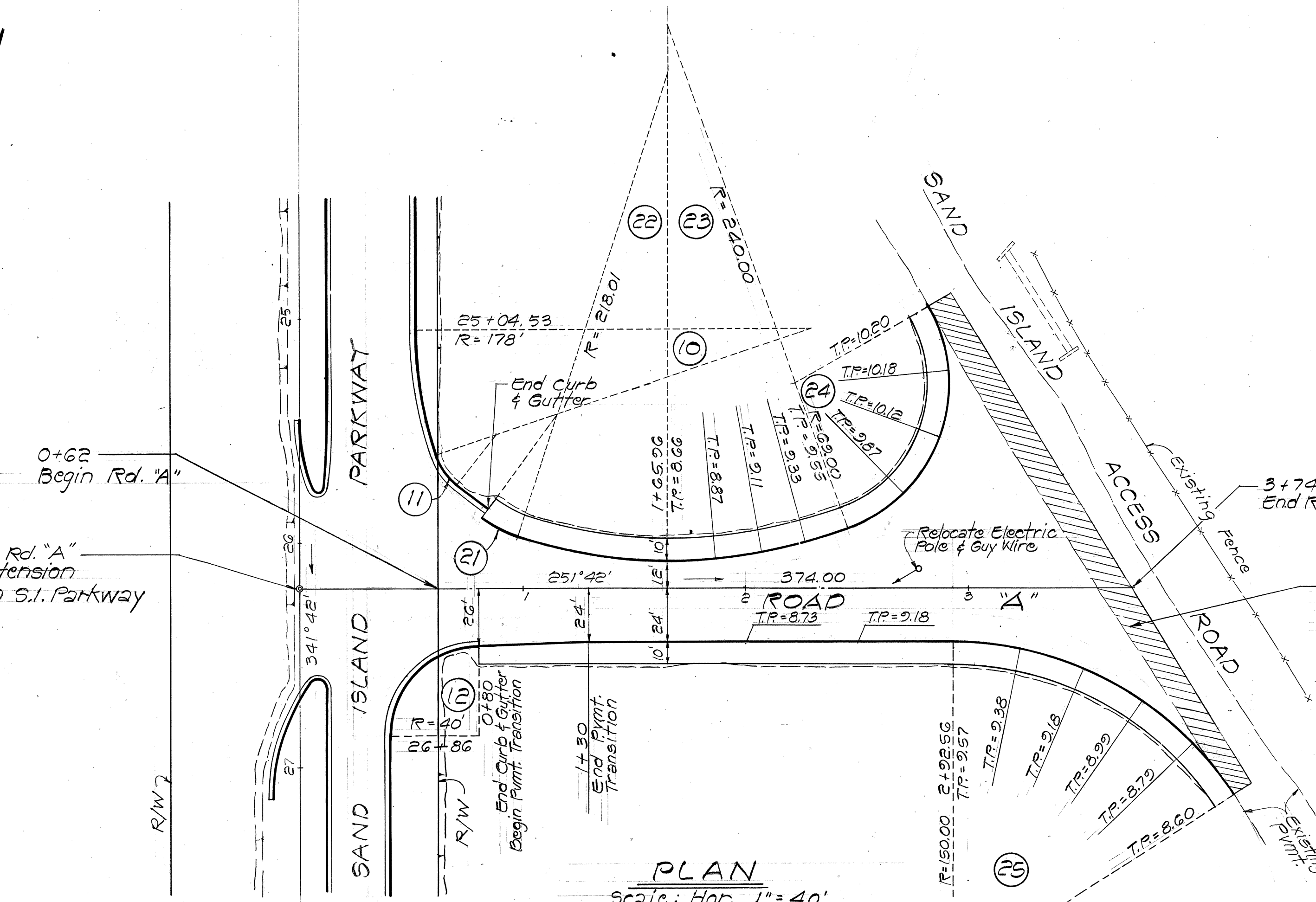
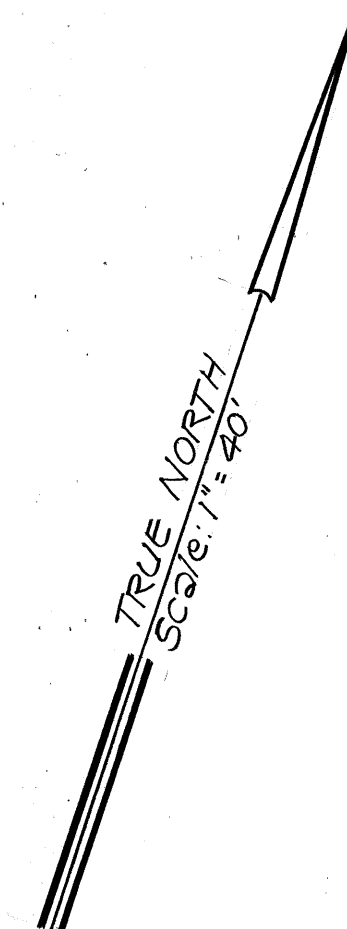
Signature: Stanley T. Yamana 4/11/74
DATE

SYM	DESCRIPTION	DATE	APP'D
REVISIONS			
STATE OF HAWAII			
DIVISION OF WATER AND LAND DEVELOPMENT			
DEPARTMENT OF LAND AND NATURAL RESOURCES			
SAND ISLAND PARKWAY — INCREMENT I			
SAND ISLAND, OAHU, HAWAII			
PLAN AND PROFILE			
STA. 38+24.39 TO STA. 44+82.88			
DESIGNED: M.C.G.W.	SUBMITTED: <i>Wes Fisher</i>		
DRAWN: C.S., R.S.	CHIEF DESIGN & CONSTR. ENGINEER		
CHECKED:	DATE: 2/1/75		
APPROVED: <i>Robert H. Chuck</i>	MANAGER-ENGINEER		FILE NO.
DATE:			

As Built

JOB NO. 46-01-12 SHEET NO. C-7 OF 46 SHEETS



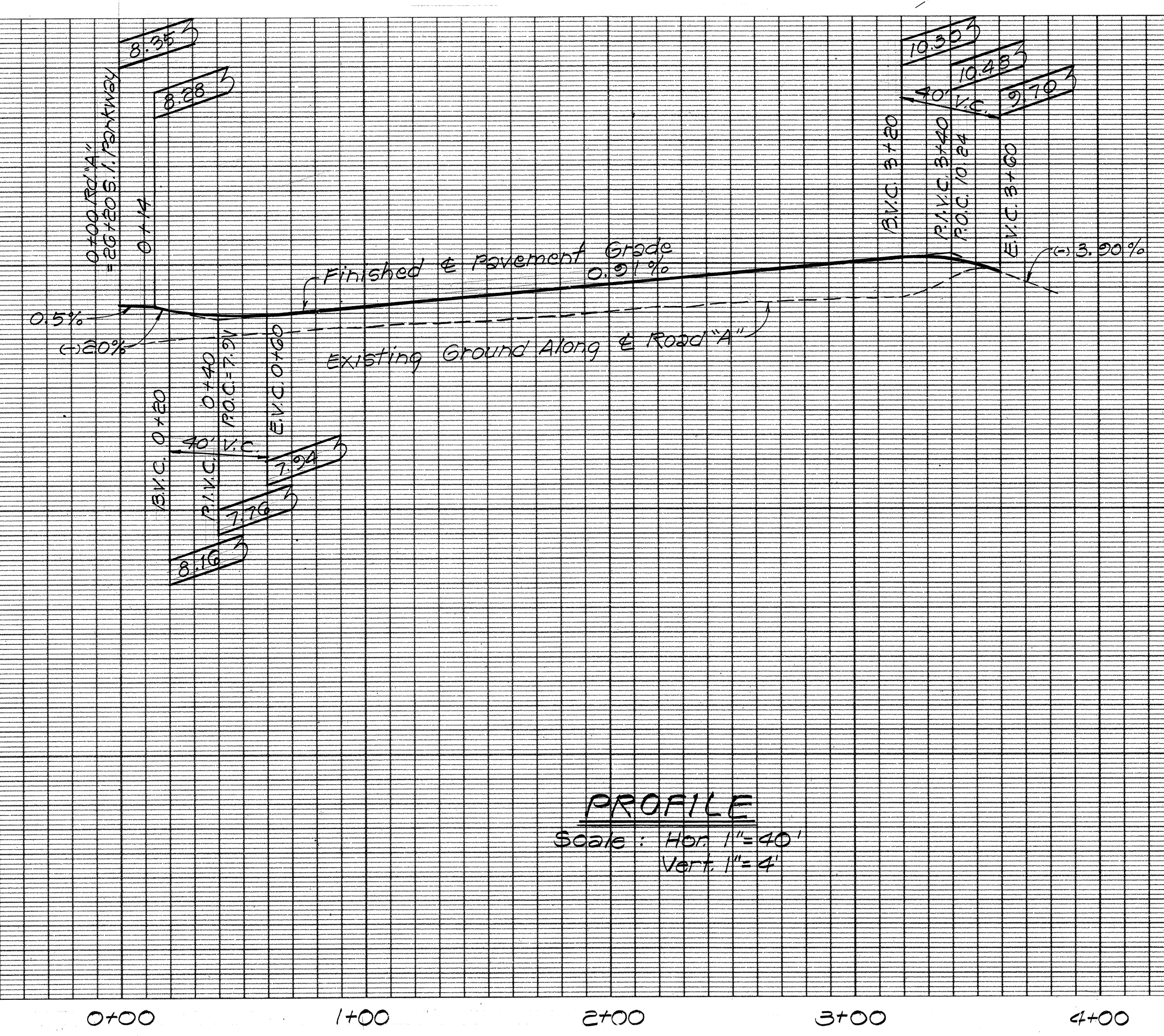


CURB DATA		
⑩	⑪	⑫
$\Delta = 18^{\circ}11'42''$	$33^{\circ}38'07''$	$90^{\circ}00'$
$\Delta/2 = 9^{\circ}05'51''$	$16^{\circ}49'03''$	$45^{\circ}00'$
$R = 178.00$	28.14	40.00
$T = 28.50$	8.50	40.00
$C = 56.29$	16.28	56.57
$Lc = 56.53$	16.53	62.83

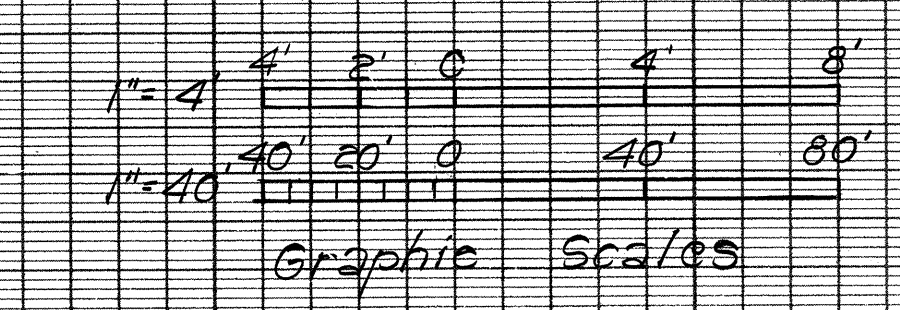
EDGE OF PAVEMENT CURVE DATA				
⑳	㉑	㉒	㉓	㉔
$\Delta = 19^{\circ}58'29''$	$18^{\circ}11'42''$	$19^{\circ}45'00''$	$100^{\circ}00'00''$	$57^{\circ}18'00''$
$\Delta/2 = 9^{\circ}59'14''$	$9^{\circ}05'51''$	$9^{\circ}52'30''$	$50^{\circ}00'00''$	$28^{\circ}39'00''$
$R = 58.00$	218.01	240.00	62.00	150.00
$T = 10.21$	34.91	41.78	32.23	81.95
$C = 20.12$	68.94	82.32	105.71	143.84
$Lc = 20.22$	69.23	82.73	120.43	150.00

Provide Smooth connection to ex. pavement. Contractor shall apply SS-1 emulsified asphaltic tack coat to join new pavement to ex. pavement.

PLAN
Scale: Hor. 1" = 40'



PROFILE
Scale: Hor. 1" = 40'
Vert. 1" = 4'



APPROVED FOR GRADING ONLY:

CHIEF DIV. OF ENGINEERING
DEPT. OF PUBLIC WORKS
DATE: 10/17/14

R. M. TOWILL CORPORATION ENGINEERS - SURVEYORS HONOLULU, HAWAII		SYM	DESCRIPTION	DATE	APP'D
REVISIONS					
STATE OF HAWAII DIVISION OF WATER AND LAND DEVELOPMENT DEPARTMENT OF LAND AND NATURAL RESOURCES SAND ISLAND PARKWAY - INCREMENT I SAND ISLAND, OAHU, HAWAII PLAN AND PROFILE ROAD "A"					
DESIGNED: M.C.	SUBMITTED: [Signature]				
DRAWN: B.C.C.	DATE: 2/1/15				
CHECKED:	DATE:				
APPROVED: [Signature]	DATE:				
[Signature] 9/17/14 SIGNATURE DATE		[Signature] MANAGER-ENGINEER			

