

CONSTRUCTION NOTES

1. Azimuths and coordinates are referred to North Base coordinate system.
2. Elevations are referred to Mean Low Low Water Datum.
3. All grading work shall conform to Chapter 23, Revised Ordinances of Honolulu 1969, as amended. (Ordinance No. 3968)
4. The Contractor shall remove all silt and debris resulting from his work and deposited in drainage facilities, roadways and other areas. The costs incurred for any necessary remedial action by the Chief Engineer of the C & C of Honolulu shall be payable by the Contractor.
5. The Contractor, at his own expense, shall keep the project area and surrounding area free from dust nuisance. The work shall be in conformance with the air pollution control standards and regulations of the State Department of Health.
6. All grading operations shall be performed in conformance with the applicable provisions of the Water Pollution Control and Water Quality Standards contained in the Public Health Regulations, State Department of Health, on Water Pollution Control and Water Quality Standards.
7. All slopes and exposed areas shall be sodded or planted immediately after the grading work has been completed.
8. The City shall be informed of the location of the disposal site for the excess material from the project when the application for a grading permit is made. The disposal site must also fulfill the requirements of the grading ordinance.
9. The City shall be informed of the location of the borrow site for the borrow required for the project when the application for a grading permit is made. The borrow site must also fulfill the requirements of the grading ordinance.
10. Prior to issuance of a grading permit, the permittee shall obtain a certification by the Director and Chief Engineer, Department of Public Works, and Chief Division of Engineering, Department of Public Works, and by the State Department of Health on the acceptability of the proposed temporary erosion control procedures.
11. No grading work shall be done on Saturdays, Sundays and Holidays at any time without prior approval by the Chief Engineer.
12. The limits of the graded (or stockpile) area shall be flagged before the commencement of the grading work.
13. The Contractor shall notify the Department of Public Works, City and County of Honolulu, at least 24-hours before commencing work to arrange for necessary inspection services at phone: 546-7674 or 546-7526.
14. Fills on slopes steeper than 5:1 shall be keyed.
15. Temporary Erosion Control Procedures shall be submitted for approval prior to the application for a grading permit. (For 1 acre or more)
16. No materials and/or equipment shall be stockpiled or otherwise stored within highway Rights-of-way except at location, designated in writing and approved by the Chief Engineer, Division of Highways, State of Hawaii.
17. The underground pipes, cables or ductlines known to exist by the Engineer from his search of records are indicated on the plans. The Contractor shall verify the location and depth of the facilities and exercise proper care in excavating in the area. The Contractor shall be responsible for any damages to the facilities whether shown or not shown on the plans.
18. Boring logs of the project area have been made and are included in a preliminary report entitled "Subsurface Investigation, Phase II Proposed Sand Island Access Parkway and Water Main, prepared by Dames and Moore, dated January, 1974. The report is available for examination by prospective bidders at the Division of Water and Land Development 4th floor State Office Building, Honolulu, Hawaii. The Bidder must form his own opinion of the character of material to be excavated and shall not hold the Board responsible for the accuracy of boring logs, its actual location, in the field, and type of material which he encounters.

CONCENTRATION POINT	STATION	DRAINAGE AREA (ACRES)	PEAK DISCHARGE (CFS)
CB (Future)	16+05	1.00	4.20
CB-1	18+10	0.20	0.70
2-24" (Offsite)	18+32	3.87	14.90
CB (Future)	19+30	0.63	2.60
CB-2	21+70	0.52	2.10
24" (Offsite)	21+70	0.87	4.50
CB (Future)	21+70	0.26	1.20
CB-3	25+00	0.46	1.90
24" (Offsite)	25+00	1.14	5.90
CB (Future)	25+25	0.48	2.10
CB (Future)	28+20	0.41	1.70
CB (Future)	28+70	0.28	1.20
CB-4	30+00	0.52	2.10
42" (Offsite)	30+00	8.80	45.00
CB-5 (Future)	30+20	0.49	1.90
CB-6	31+00	0.21	1.00
CB-7	31+55	1.01	4.10
CB-8 (Future)	31+00	0.41	1.70
CB-9 (Future)	32+20	0.20	0.80

LEGEND:

---	Existing contour
---	Existing fuel oil line & size
---	Existing force main & size
---	Existing signal corps cable
---	Existing water line & size
---	Existing drain line & size
---	Existing fence
---	New swale
---	New water line & size
---	New drain line & size
---	Finished slope bank
---	Top of pavement
---	Top of curb
---	Top of bank

APPROVED FOR GRADING ONLY:

CHIEF DIV. OF ENGINEERING
DEPT. OF PUBLIC WORKS

APPROVED:

ASSIST. CHIEF ENGINEER
BOARD OF WATER SUPPLY (WATER)
CITY & COUNTY OF HONOLULU

Graphic Scale
1" = 100'

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					
				GENERAL PLAN					
DESIGNED: G. K.		SUBMITTED:							
DRAWN: L. L.		DATE: 2/1/75		CHIEF DESIGN & CONSTR. ENGINEER					
CHECKED:		DATE:							
APPROVED:		DATE:		MANAGER-ENGINEER					
SIGNATURE: Stanley T. Yamamoto		DATE: 2/1/75							
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION									
FILE NO.									

As Built

JOB NO. 46-01-12 SHEET NO. C-2 OF 40 SHEETS