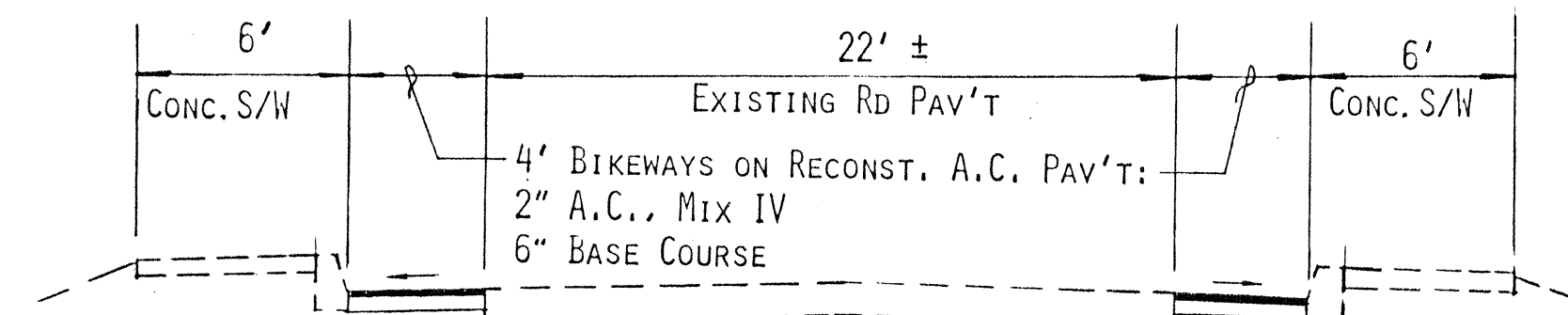


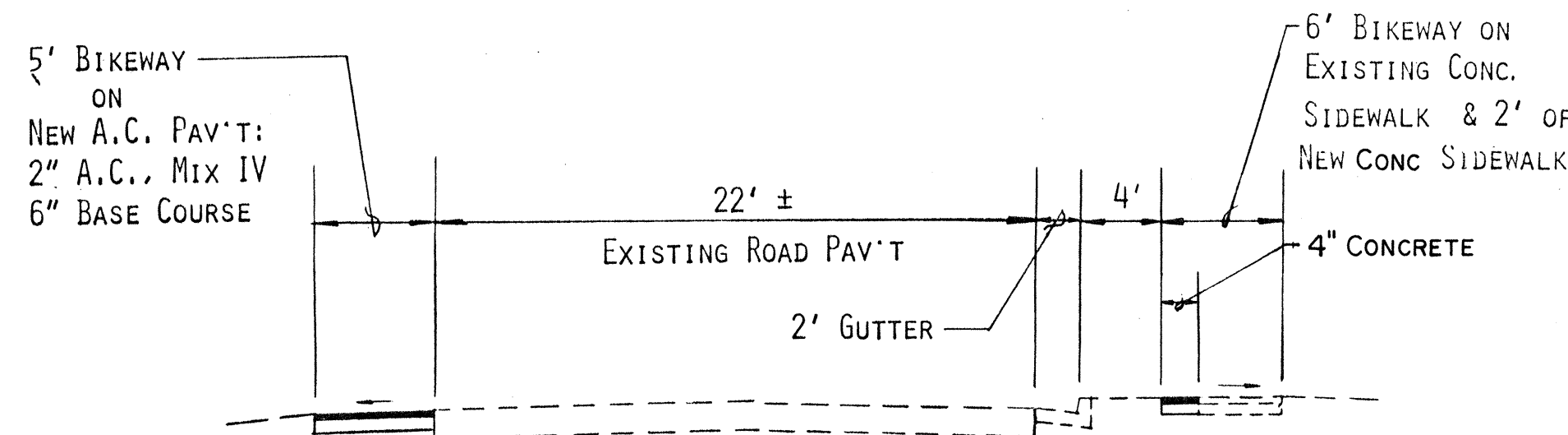
WAIMANALO STREAM BRIDGE TO KUMUHAU ST.

STA 4+29 TO STA 14+30



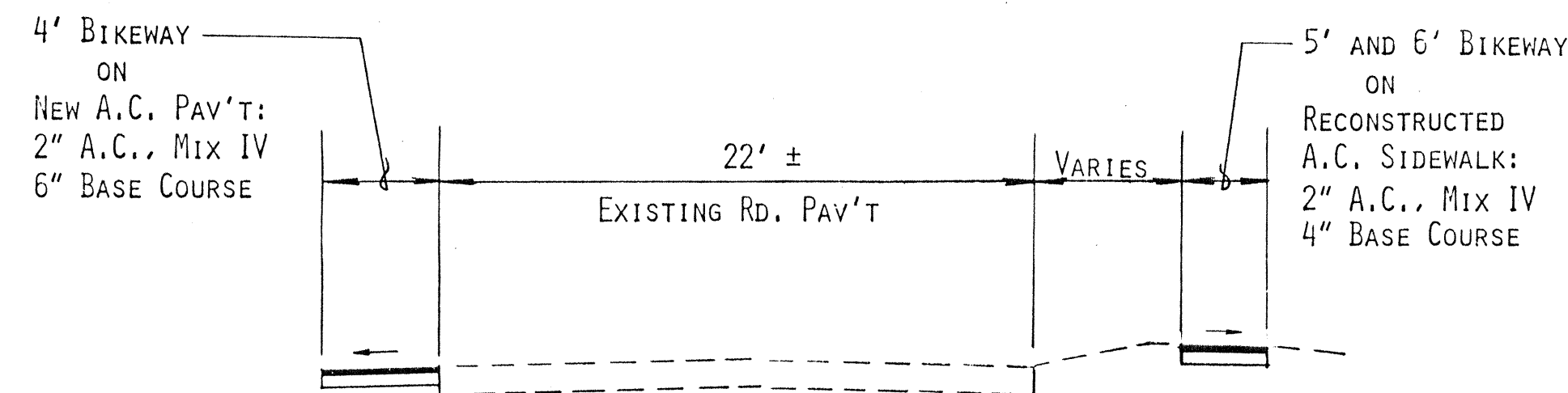
417' EAST OF PAOLIMA ST. TO WAIKALUA ST.

STA 34+32± TO STA 46+70



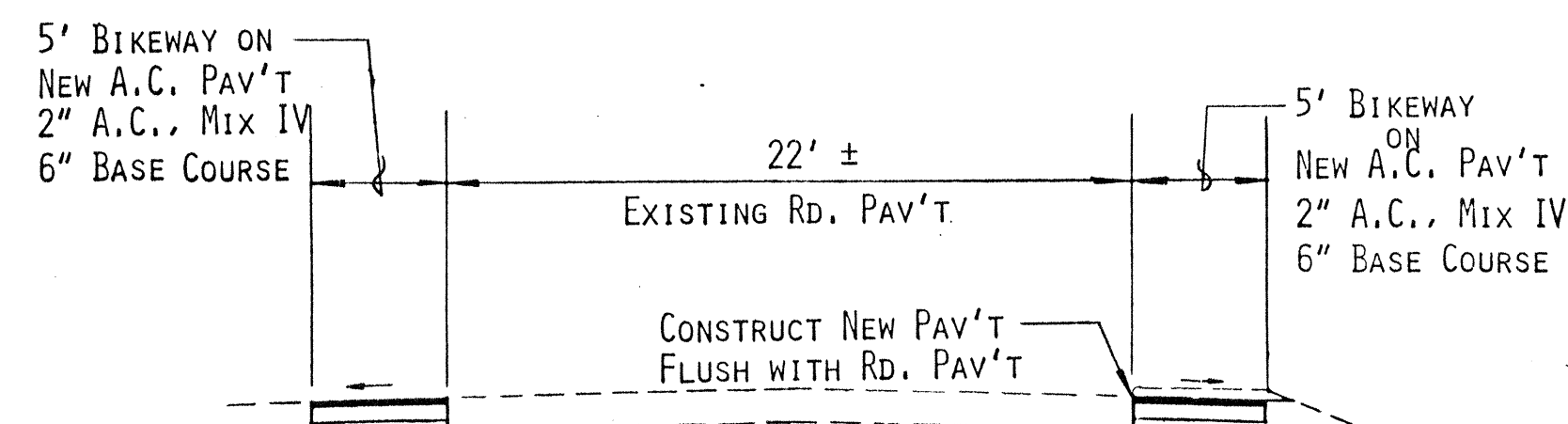
KUMUHAU ST. TO KAHAWAI STREAM BRIDGE

STA 14+30 TO STA 23+46±



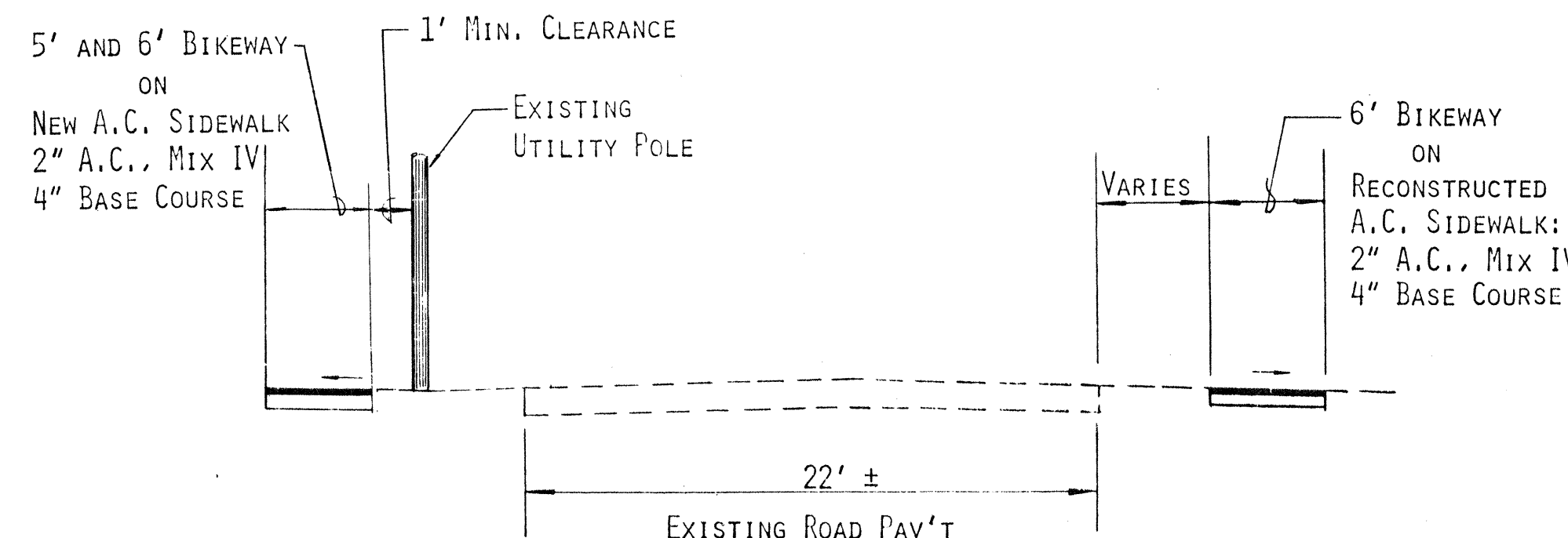
WAIKALUA ST. TO 180' EAST OF INAOLE STREAM BRIDGE

STA 46+70 TO STA 66+35±



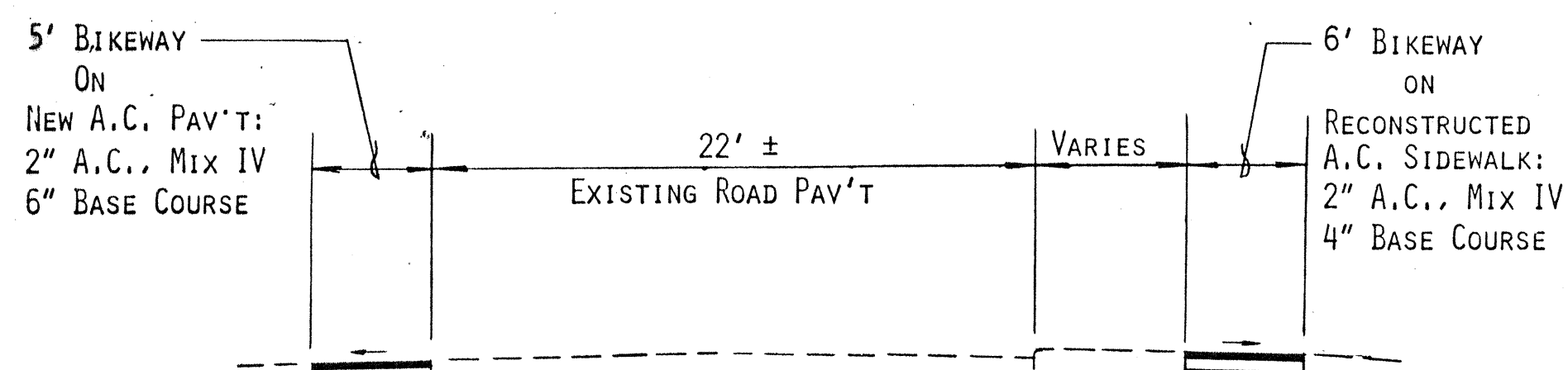
KAHAWAI STREAM BRIDGE TO PAOLIMA ST.

STA 23+46± TO STA 30+15



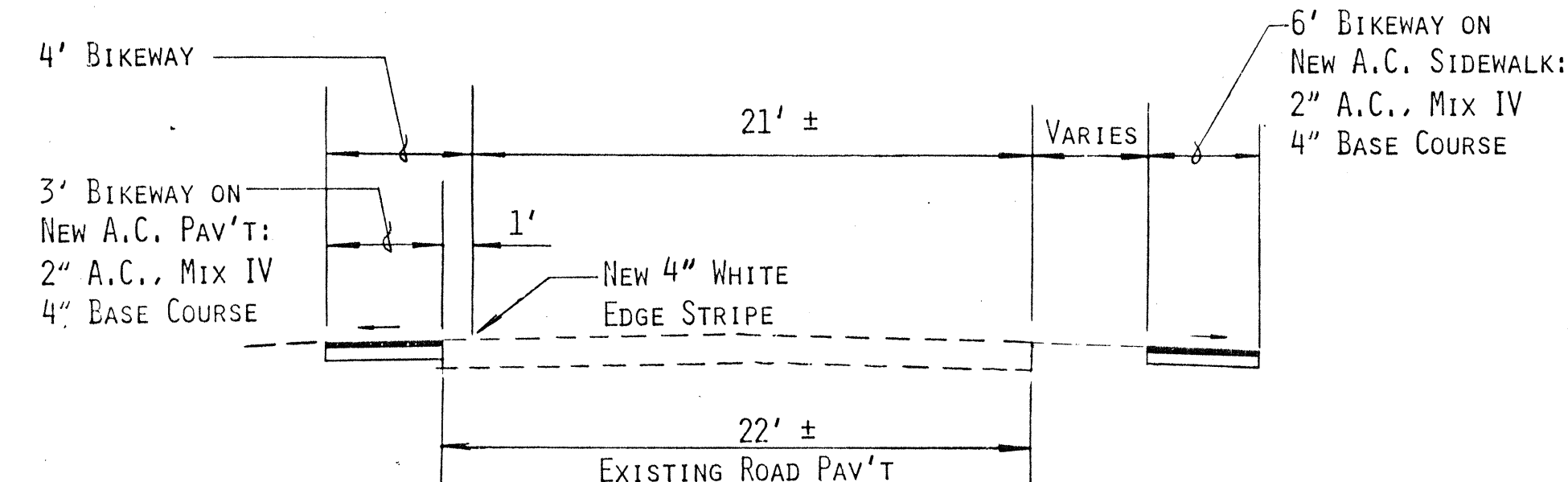
180' EAST OF INAOLE STREAM BRIDGE TO ALOILOI ST.

STA 66+35± TO STA 95+54



PAOLIMA ST. TO 417' EAST OF PAOLIMA ST.

STA 30+15 TO STA 34+32±



ALOILOI ST. TO WALEA ST.

STA 95+54 TO STA 131+87

KALANIANA'OLE HIGHWAY

TYPICAL SECTIONS

NO SCALE

GENERAL NOTES

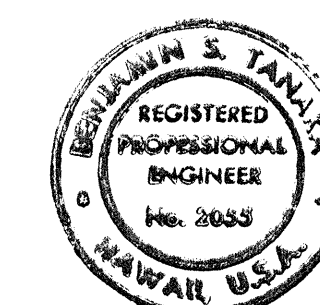
- ALL CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, MAY 1975, AND THE STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, AUGUST 1976, OF THE DEPARTMENT OF PUBLIC WORKS, CITY AND COUNTY OF HONOLULU.
- WORK ON ANY CITY STREET AREA MAY BE PERFORMED ONLY BETWEEN THE HOURS OF 8:30 A.M. TO 3:30 P.M. UNLESS OTHERWISE PERMITTED BY THE DEPARTMENT OF TRANSPORTATION SERVICES. NO HOLIDAY OR WEEKEND WORK WILL BE PERMITTED.
- WHERE PEDESTRIAN WALKWAYS EXIST, THEY SHALL BE MAINTAINED IN PASSABLE CONDITION OR OTHER FACILITIES FOR PEDESTRIANS SHALL BE PROVIDED. PASSAGE BETWEEN WALKWAYS AT INTERSECTIONS SHALL LIKEWISE BE PROVIDED.
- THE CONTRACTOR SHALL NOTIFY THE MTL ROAD SUPERVISOR AT 538-7622 ONE WEEK IN ADVANCE PRIOR TO THE START OF THE PROJECT FOR TEMPORARY RELOCATION OF BUS STOP SIGNS WHICH NEED TO BE RELOCATED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL RELOCATE ALL SIGN POSTS INDICATED ON THE PLANS. THE WORK SHALL BE COORDINATED WITH THE DEPARTMENT OF TRANSPORTATION SERVICES, CITY AND COUNTY OF HONOLULU, PHONE: 523-4029.
- THE ENGINEER RESERVES THE RIGHT TO CALL FOR REPAIRS OF RUTTED SECTIONS OF THE EXISTING ROAD PAVEMENT WITHIN THE PROPOSED BIKEWAYS AND THE AREAS IMMEDIATELY ADJACENT TO THE BIKEWAYS. PAYMENT SHALL BE MADE UNDER THE VARIOUS CONTRACT ITEMS FOR ROAD REPAIRS, AS PROVIDED IN THE PROPOSAL SCHEDULE.
- ALL BIKEWAYS SHALL BE PROVIDED WITH A SMOOTH RIDING CONNECTION TO EXISTING ROAD PAVEMENT. BIKEWAY SHALL BE SLOPED 1/4" PER FOOT IN DIRECTION SHOWN ON TYPICAL SECTIONS.
- STATIONING, AS SHOWN ON THE PLANS, IS SCALED AND SHALL BE USED FOR GENERAL REFERENCING ONLY.
- EXISTING MANHOLES, INLETS, AND OTHER UTILITY STRUCTURES SHALL REMAIN AT EXISTING GRADE UNLESS OTHERWISE INDICATED.
- THE CONTRACTOR SHALL OBTAIN PERMITS FROM THE CITY DEPARTMENT OF TRANSPORTATION SERVICES 5 DAYS PRIOR TO COMMENCING WORK.
- ALL PROTECTIVE FACILITIES AND PRECAUTIONS TO BE TAKEN SHALL CONFORM WITH THE "RULES AND REGULATIONS GOVERNING THE USE OF TRAFFIC CONTROL DEVICES AT WORK SITES ON OR ADJACENT TO PUBLIC STREETS AND HIGHWAYS" OF THE HIGHWAY SAFETY COORDINATOR AND THE FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, PART VI, TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS."
- A SPECIAL DUTY CITY POLICE OFFICER SHALL BE PROVIDED AT ALL TIMES DURING WORKING HOURS AT EACH END OF THE DETOUR TO DIRECT TRAFFIC.
- THE CONTRACTOR SHALL NOTIFY AND COORDINATE WORK WITH THE ELECTRICAL AND MAINTENANCE SERVICES DIVISION, DEPARTMENT OF TRANSPORTATION SERVICES, ONE WEEK IN ADVANCE OF COMMENCING WORK. PHONE 523-4281.

UTILITY NOTES

- THE CONTRACTOR SHALL NOTIFY THE BWS AND THE DIVISION OF WASTEWATER MANAGEMENT IN WRITING ONE WEEK PRIOR TO COMMENCING WORK ON THEIR FACILITIES.
- 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 MARCH 1977, AND ALL SUBSEQUENT AMENDMENTS AND ADDITIONS.
- REAPPROVAL SHALL BE REQUIRED IF THIS PROJECT IS NOT UNDER CONSTRUCTION WITHIN A PERIOD OF ONE YEAR. (SEE RULES AND REGULATIONS OF THE BOARD OF WATER SUPPLY.)
- PRIOR TO EXCAVATING FOR THE NEW A.C. PAVEMENT AND WHEELCHAIR RAMPS, THE CONTRACTOR SHALL VERIFY IN THE FIELD THE LOCATION OF EXISTING UTILITIES AND APPURTENANCES.
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITY FACILITIES AS SHOWN ON THE PLANS ARE FROM THE LATEST AVAILABLE DATA BUT ARE 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, UNLESS OTHERWISE SPECIFIED.
- ALL PLANS APPROVED BY THE BOARD OF WATER SUPPLY AND THE DIVISION OF WASTEWATER MANAGEMENT ARE BASED SOLELY ON THE ADEQUACY OF THE WATER AND SEWER SYSTEMS.
- THE CONTRACTOR SHALL RELOCATE OR ADJUST EXISTING METERS, METER BOXES, AND MANHOLES, INCLUDING FRAME AND COVER, IF FOUND NECESSARY.
- ALL UNDERGROUND LINES IN THE AREA (TRAFFIC SIGNAL, STREET LIGHT, AND FIRE ALARM) ARE APPROXIMATELY 18 INCHES BELOW GROUND LEVEL AND SHALL BE KEPT OPERATIONAL DURING CONSTRUCTION. RELOCATIONS, IF NECESSARY, SHALL BE APPROVED BY THE ELECTRICAL AND MAINTENANCE DIVISION, DEPARTMENT OF TRANSPORTATION SERVICES, PHONE: 523-4905.
- THE CONTRACTOR SHALL NOTIFY THE JOINT POLE COMMITTEE TWO (2) WEEKS IN ADVANCE FOR ANY UTILITY POLE RELOCATION THAT MAY BE NECESSARY, PHONE: 548-5655.

GRADING NOTES

- ALL GRADING WORK SHALL BE IN ACCORDANCE WITH CHAPTER 23, GRADING, SOIL EROSION, AND SEDIMENT CONTROL, OF THE REVISED ORDINANCES OF HONOLULU, 1969, AS AMENDED (ORDINANCE NOS. 3968, 4294, AND 4538).
- ALL SLOPES AND EXPOSED AREAS SHALL BE SODDED OR PLANTED IMMEDIATELY AFTER THE GRADING WORK HAS BEEN COMPLETED.



APPROVED: Date 1/30/80

Director, Dept. Of Transportation Services
1/31/80

APPROVED: Date 2-6-80

Chief, Planning Engineering, BWS

THIS WORK WAS DONE BY OR UNDER MY SUPERVISION

NO.	DATE	DESCRIPTION	ENGR	DEPT. CHIEF
REVISIONS				
APPRD				
DEPARTMENT OF PUBLIC WORKS CITY AND COUNTY OF HONOLULU				
DIVISION OF ENGINEERING				
WAIMANALO-KALANIANA'OLE				
BIKEWAY				
TYPICAL SECTIONS /				
GENERAL NOTES				
ENGINEER	DATE 1/30/80			
DRAFTSMAN	F.P.W.K.		CHECKED BY: B.S.T.	
APPROVED	7/15/80			
CHIEF, DIVISION OF ENGINEERING				
P.B. NO. 661 & 663				

JOB NO. 48-80