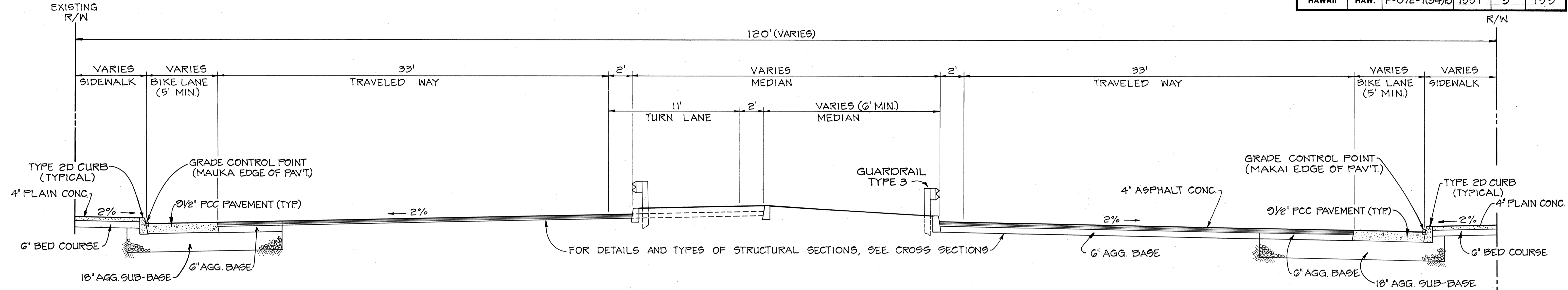


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-072-1(34)B	1991	3	123



# TYPICAL SECTION (FOR STA. 124+00 TO STA. 133+50±)

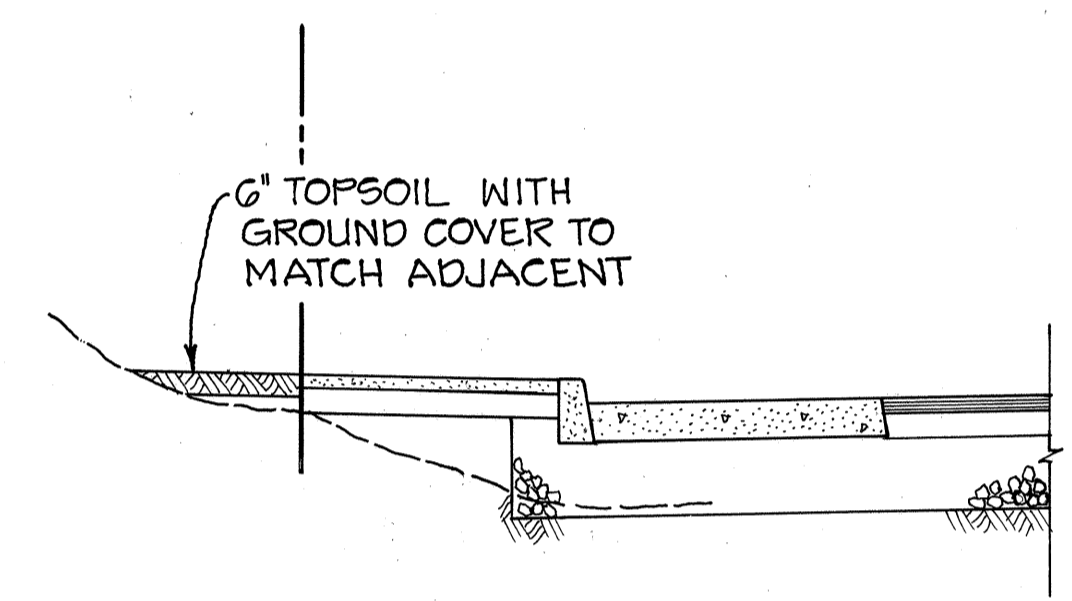
SCALE: 1/4" = 1'-0"

## GENERAL NOTES

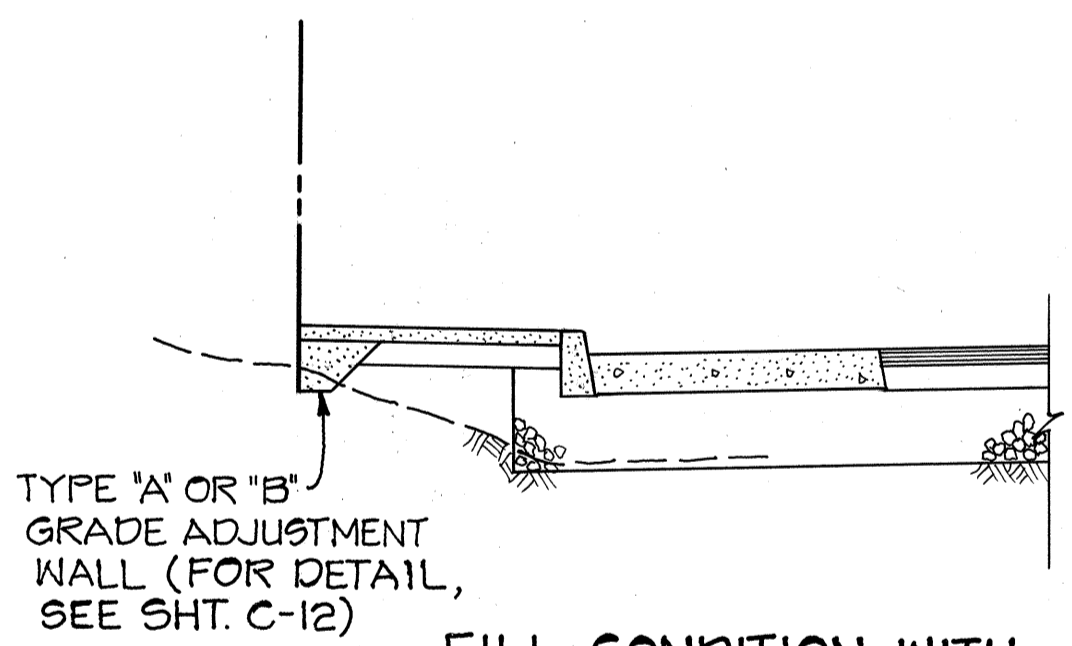
- STRUCTURAL SECTIONS SHOWN ON THE TYPICAL SECTIONS ARE APPROXIMATE AND ARE FOR REPRESENTATION ONLY. DETAILED CONSTRUCTION SECTIONS ARE SHOWN ON THE CROSS SECTIONS.
- THE BIKE LANES INCLUDING BUS STOP PADS SHALL BE 3 1/2 IN. THICK, 5 FT. WIDE P.C.C. PAVEMENT THROUGHOUT THE PROJECT, UNLESS NOTED OTHERWISE.
- THE 4" ASPHALT CONCRETE LAYER FOR THE NEW SECTIONS SHALL CONSIST OF THE FOLLOWING:
  - 2 1/2" MIX NO. III LEVELING COURSE
  - 1 1/2" MIX NO. V SURFACE COURSE
- FOR OVERLAYS OF ASPHALT CONCRETE OVER EXISTING PAVEMENT, MIX NO. III SHALL BE USED FOR THE LEVELING COURSE AND MIX NO. V SHALL BE USED FOR THE SURFACE COURSE. THE THICKNESS OF THE VARIOUS COURSES SHALL CONFORM TO THE FOLLOWING TABLE AND THE INSTRUCTIONS OF THE "ENGINEER":
 

	COMPACTED THICKNESS	INDIVIDUAL LAYERS
MIX NO. USED FOR:	III	V
	LEVELING COURSE	SURFACE COURSE
MINIMUM	1 1/4"	1 1/2"
MAXIMUM	3" MAX./COURSE	2 1/2"
- THE ASPHALT BASE COURSE SHALL BE 6" THICK, UNLESS SHOWN OTHERWISE ON THE CROSS SECTIONS OR DIRECTED BY THE "ENGINEER".
- WHERE NECESSARY, EXISTING A.C. PAVEMENT SHALL BE COLD-PLANED TO 1 1/2" BELOW FINISH GRADE TO PERMIT INSTALLATION OF A.C. OVERLAY OF NOT LESS THAN 1 1/2" THICKNESS. SUCH WORK IS NOT LIMITED TO AREAS IDENTIFIED ON PLANS, BUT SHALL BE PERFORMED AS REQUIRED.
- EXISTING PAVEMENT DAMAGED BY EXCAVATION OR OTHER ACTIVITIES SHALL BE RESTORED.
- WHERE REGRADING IS REQUIRED OUTSIDE OF R/W, TOPSOIL SHALL BE REMOVED, STOCKPILED AND REUSED. PLACE MINIMUM 6" OF TOPSOIL WHERE REGRADING IS REQUIRED.
- EXISTING UTILITY LINES MAY ENCROACH INTO PROPOSED SUBBASE COURSE OF ROADWAY. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGING SUCH UTILITIES DURING EXCAVATION AND COMPACTION OPERATIONS. PRECAUTIONS MAY INCLUDE PLACING A TEMPORARY CUSHION OF SUITABLE EARTH MATERIAL OVER EXPOSED LINE AFTER COMPACTION OF SUBGRADE ADJACENT TO LINE. PAYMENT WILL BE CONSIDERED INCIDENTAL TO VARIOUS CONTRACT ITEMS.
- EXISTING BUS BENCHES, BUS SHELTER AND MAILBOXES SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE CONSIDERED INCIDENTAL TO VARIOUS CONTRACT ITEMS.
- CONTRACTOR SHALL PATCH PCC SHOULDER AND SIDEWALK AFTER REMOVAL OF EXISTING UTILITY POLES.

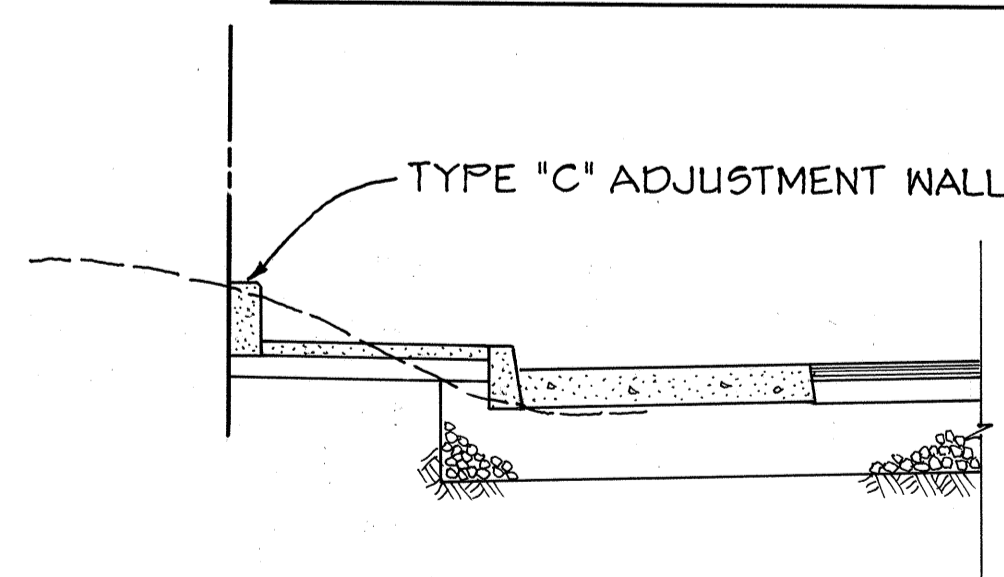
	COMPACTED THICKNESS	INDIVIDUAL LAYERS
MIX NO. USED FOR:	III	V
	LEVELING COURSE	SURFACE COURSE
MINIMUM	1 1/4"	1 1/2"
MAXIMUM	3" MAX./COURSE	2 1/2"



FILL CONDITION



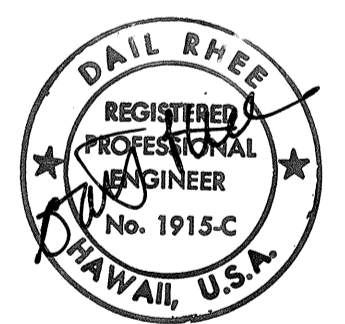
FILL CONDITION WITH GRADE ADJUSTMENT WALL



CUT CONDITION

## TYPICAL EDGE CONDITIONS

SCALE: 1/4" = 1'-0"



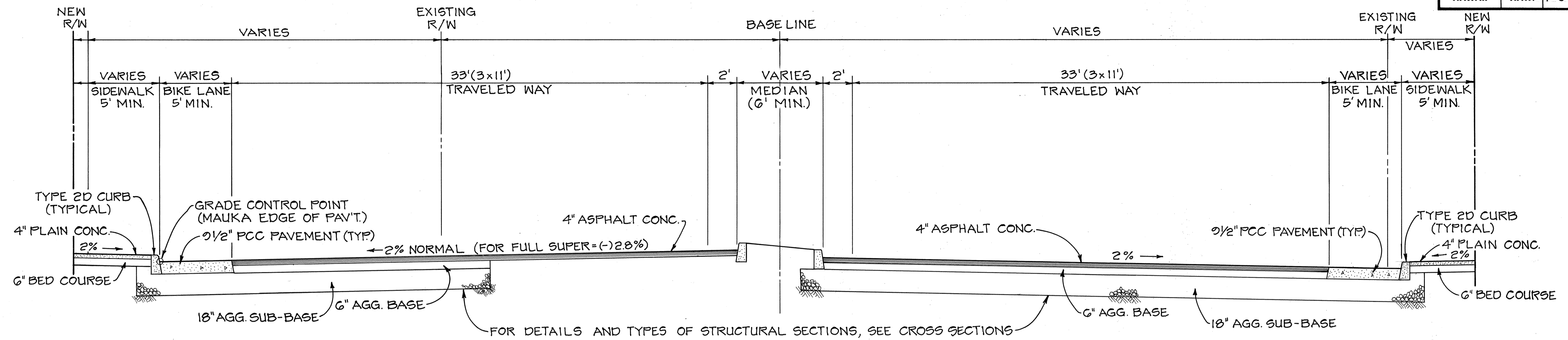
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

PAVEMENT SECTIONS  
  
KALANIANA'OLE HIGHWAY  
E. HIND DR. TO E. HALEMAUMAU ST.  
F. A. PROJECT NO. F-072-1(34)B  
SCALE: AS NOTED      DATE:

SHEET NO. A-1 OF 4 SHEETS

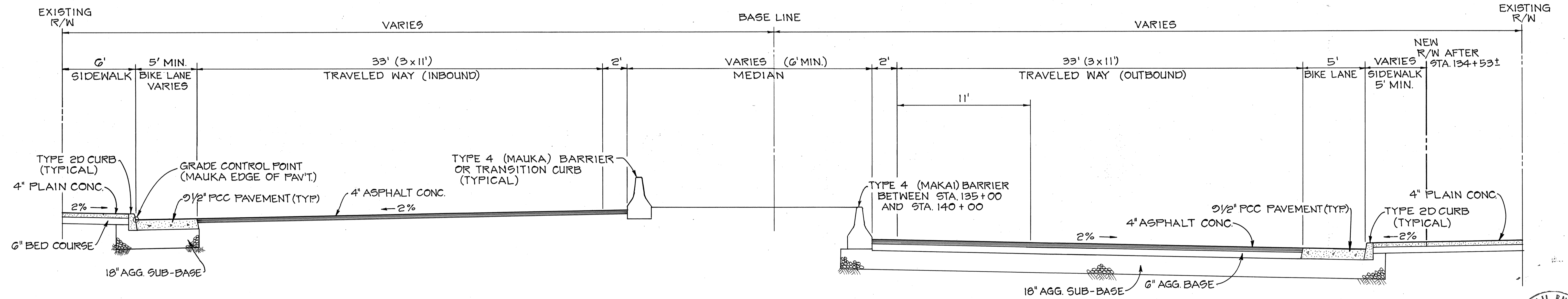
ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-072-1(34)B	1991	4	199



### TYPICAL SECTION (STA. 140 + 50 TO STA. 177 + 20)

SCALE: 1/4" = 1' - 0"



### SPECIAL SECTION (STA. 134 + 00 TO STA. 140 + 00)

SCALE: 1/4" = 1' - 0"



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

### PAVEMENT SECTIONS

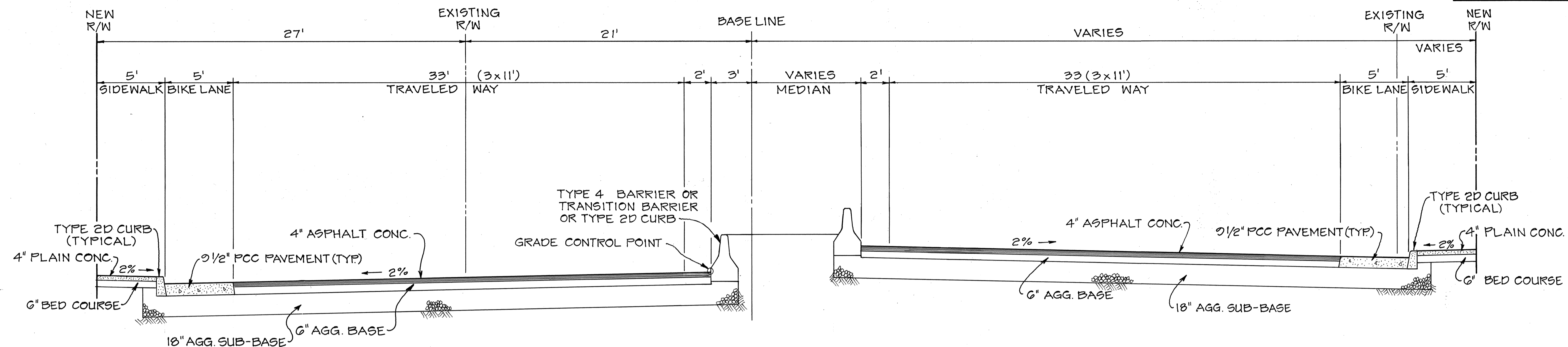
KALANIANA'OLE HIGHWAY  
E. HIND DR. TO E. HALEMAUMAU ST.

F. A. PROJECT NO. F-072-1(34)B

SCALE: AS NOTED DATE:

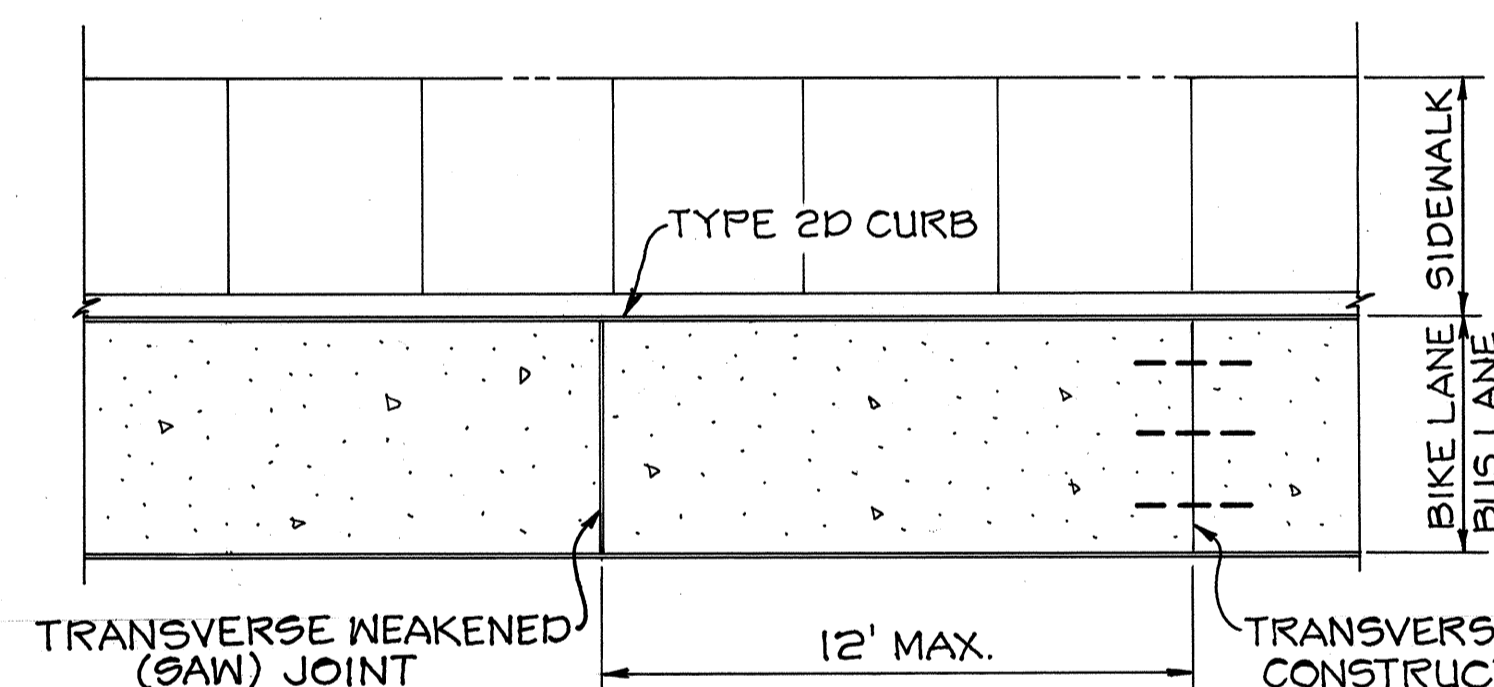
SHEET No. A-2 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-072-1(34)B	1991	5	103



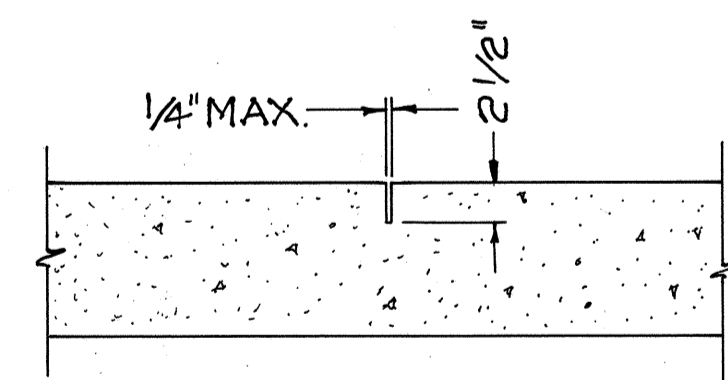
### SPECIAL SECTION (STA. 149+00 TO STA. 151+50±)

SCALE: 1/4" = 1'-0"

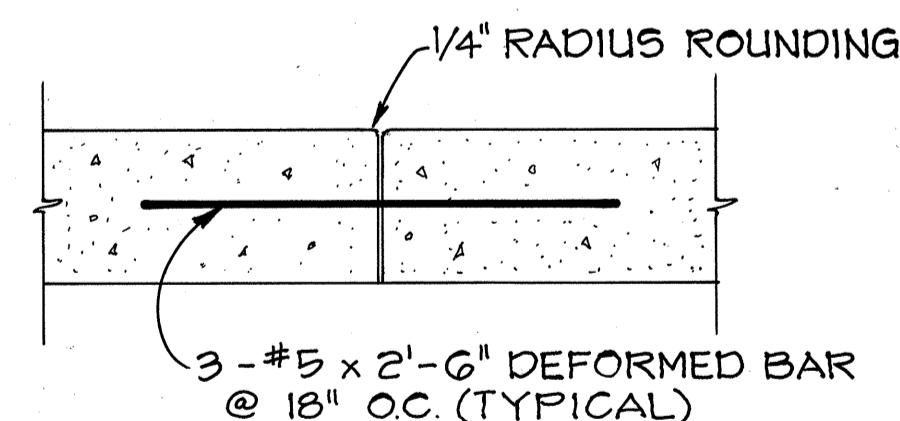


### PLAN

1. TRANSVERSE WEAKENED JOINTS SHALL BE SAWED AT 12' O.C. (MAX.), UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. TRANSVERSE CONSTRUCTION JOINTS SHALL BE LOCATED AT A MINIMUM DISTANCE OF 10' FROM THE NEAREST PLANNED TRANSVERSE WEAKENED JOINT.

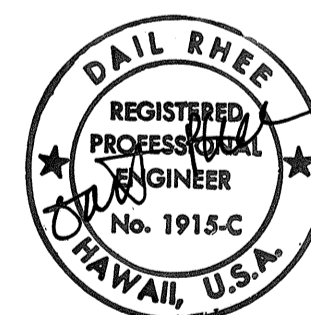


TRANSVERSE WEAKENED (SAW) JOINT



TRANSVERSE CONSTRUCTION JOINT

### TYPICAL JOINT LOCATION AT BIKE LANE & BUS STOP



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

### PAVEMENT SECTIONS

KALANIANA'OLE HIGHWAY  
E. HIND DR. TO E. HALEMAUMAU ST.  
F.A. PROJECT NO. F-072-1(34)B

SCALE: AS NOTED DATE:

SHEET No. A-30F 4 SHEETS