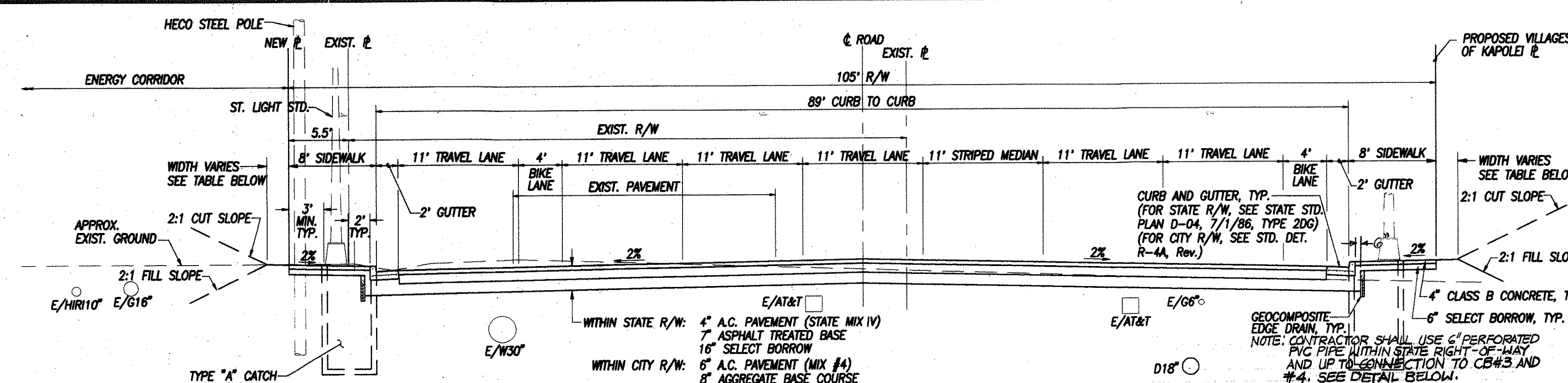
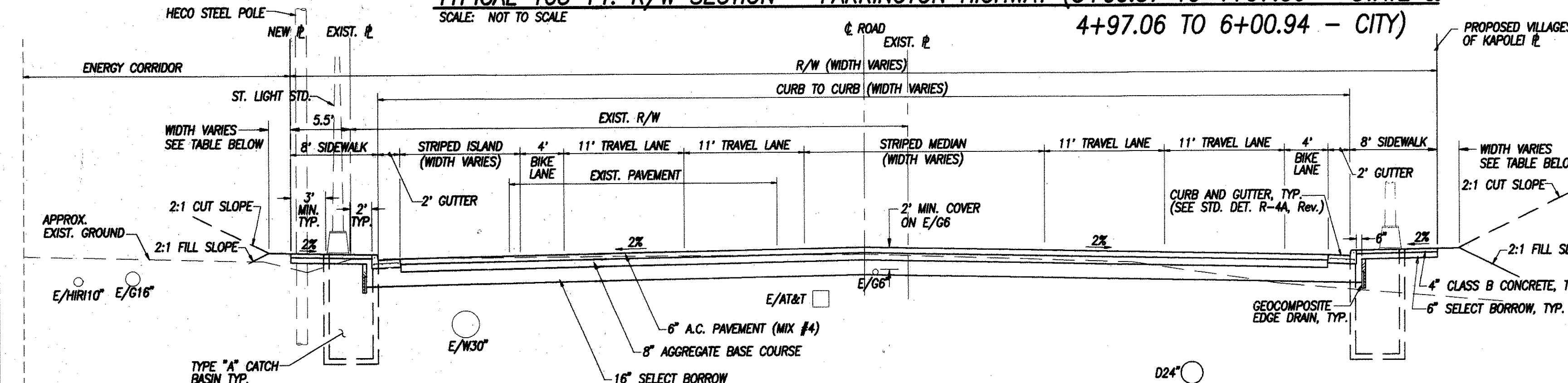
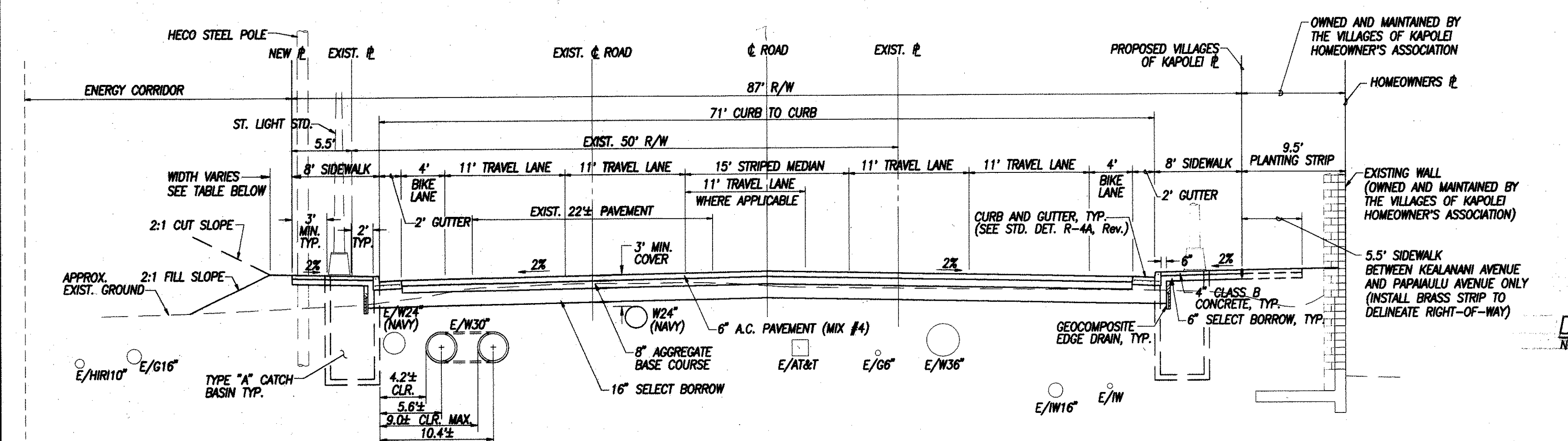




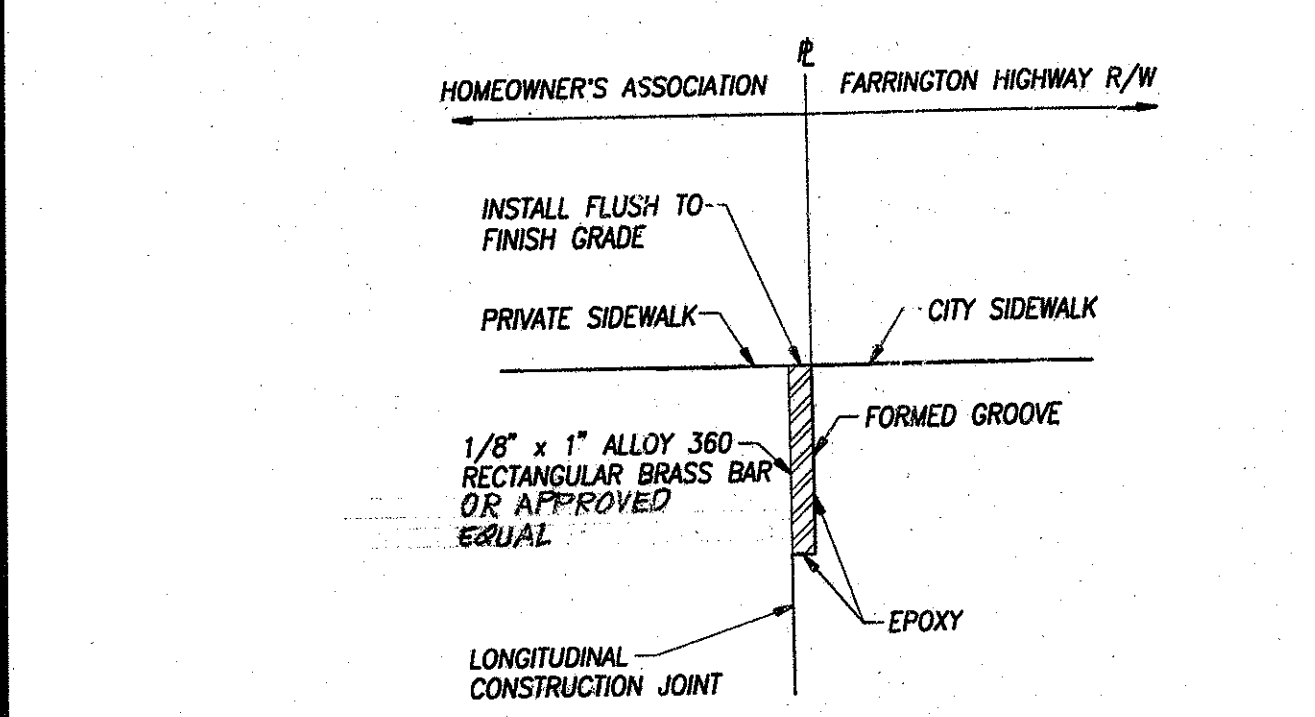
TYPICAL 105-FT. R/W SECTION - FARRINGTON HIGHWAY (3+00.57 TO 4+97.06 - STATE & 4+97.06 TO 6+00.94 - CITY)
SCALE: NOT TO SCALE



TYPICAL TRANSITION FROM 105-FT. TO 87-FT. R/W SECTION - FARRINGTON HIGHWAY (6+00.94 TO 9+66.47 - CITY)
SCALE: 1" = 8'

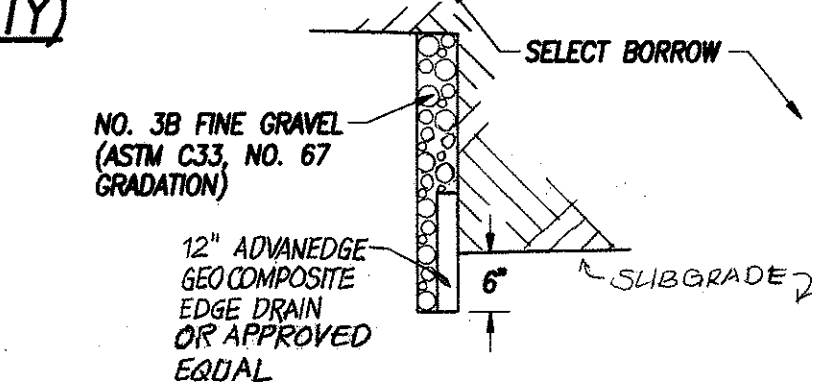


TYPICAL 87-FT. R/W SECTION - FARRINGTON HIGHWAY (9+66.47 TO 51+11.04 - CITY)
SCALE: 1" = 8'



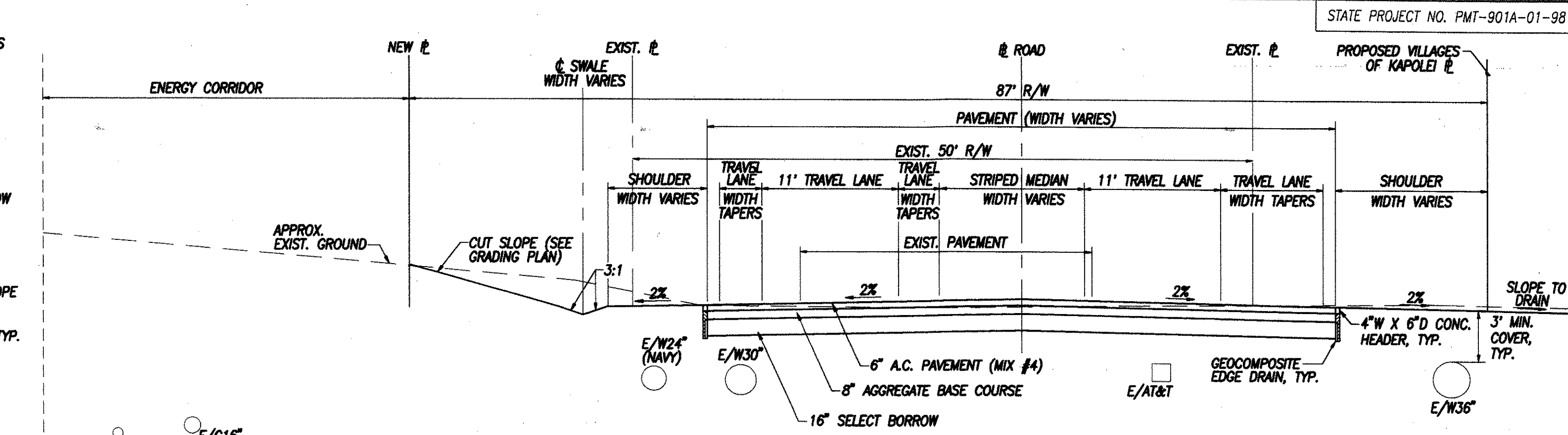
DETAIL - BRASS STRIP ALONG SIDEWALK
NOT TO SCALE

- NOTES:
- WITHIN CITY R/W:
 - EXISTING PAVEMENT STRUCTURE (AVERAGE THICKNESS): 5" A.C. PAVEMENT, 7" BASE COURSE
 - EXISTING PAVEMENT BASE COURSE MAY BE USED AS NEW PAVEMENT SUBBASE, PROVIDED THE TOP OF THE EXISTING BASE COURSE IS BETWEEN 24" AND 30" BELOW FINISH GRADE.
 - WITHIN STATE R/W:
 - EXISTING PAVEMENT STRUCTURE (AVERAGE THICKNESS): 6" A.C. PAVEMENT, 26" BASE COURSE AND SUBBASE COURSE
 - EXISTING PAVEMENT BASE COURSE MAY BE USED AS NEW PAVEMENT SUBBASE, PROVIDED THE TOP OF THE EXISTING BASE COURSE IS BETWEEN 11" AND 27" BELOW FINISH GRADE.

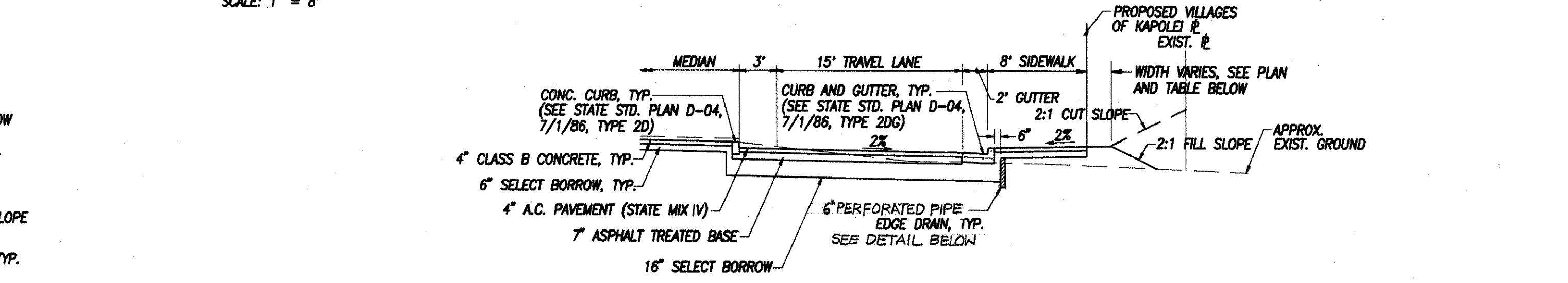


DETAIL - GEOCOMPOSITE FIN DRAIN
NOT TO SCALE

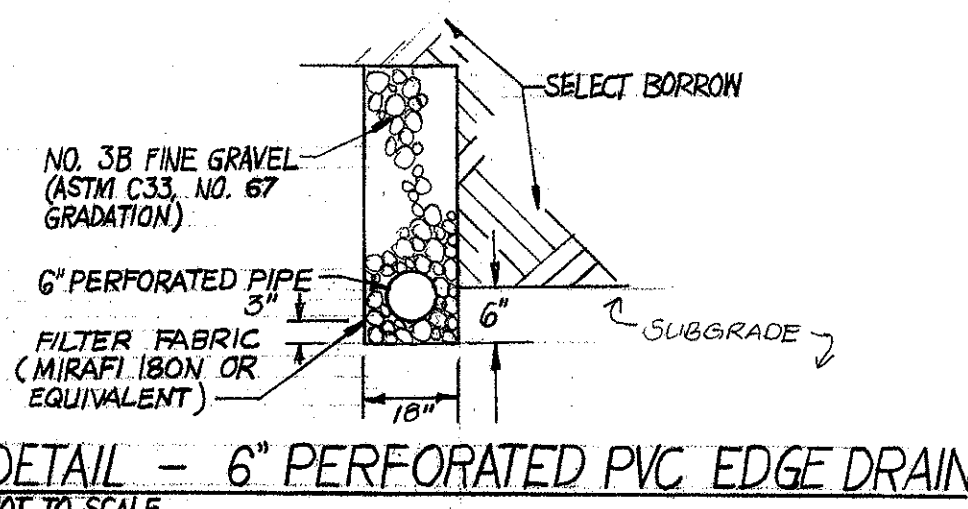
TABLE FOR HORIZONTAL DISTANCES FROM PROPERTY LINE TO TOP OF FILL OR BOTTOM OF CUT SLOPE	
HEIGHT OF CUT OR FILL	DISTANCE (FT.)
0 TO 4 FEET	2
4 TO 8 FEET	4
8 TO 15 FEET	6
GREATER THAN 15 FEET	8



TYPICAL 87-FT. R/W SECTION - FARRINGTON HIGHWAY (51+11.04 TO 55+41.61 - CITY)
SCALE: 1" = 8'



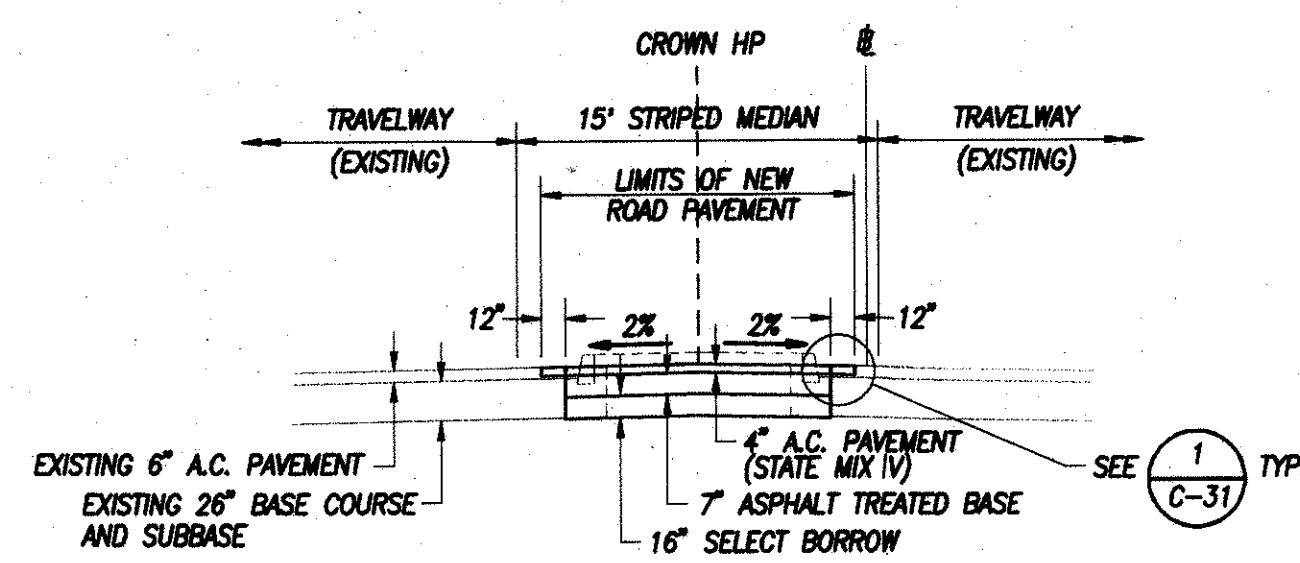
SECTION - NORTH-BOUND RIGHT-TURN LANE ON FORT BARRETTE ROAD - STATE
SCALE: 1" = 8'



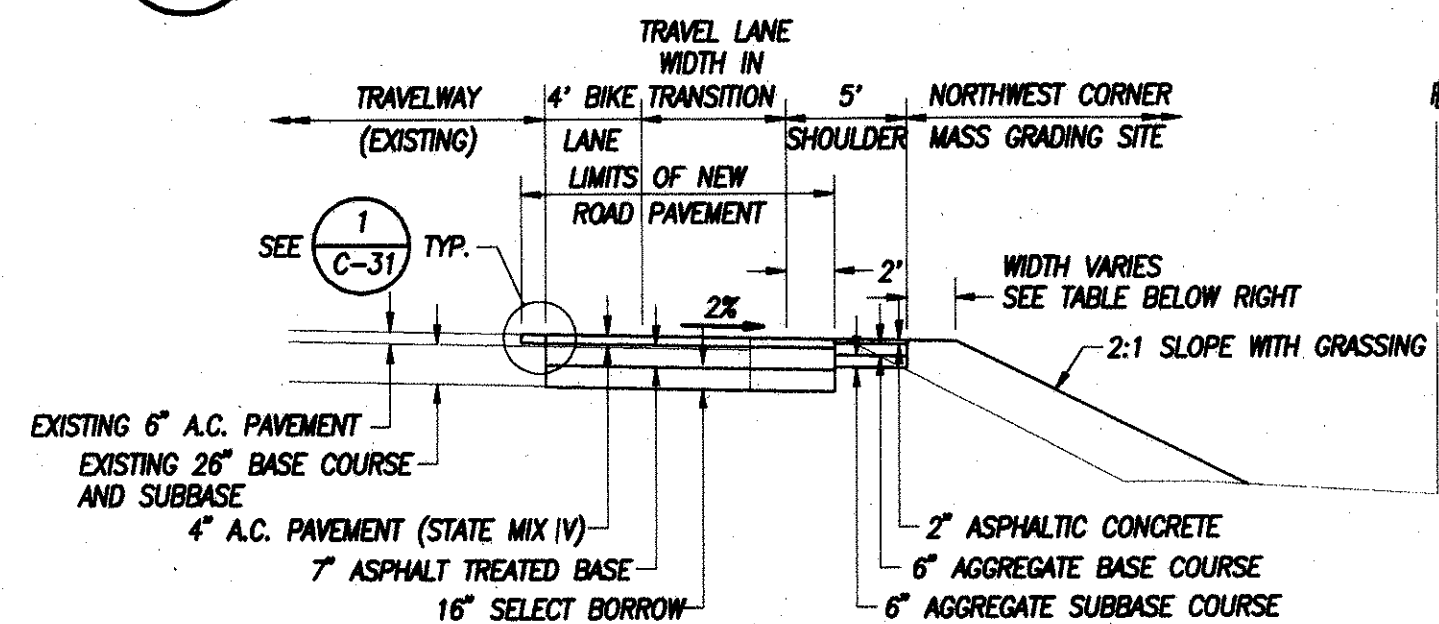
DETAIL - 6" PERFORATED PVC EDGE DRAIN
NOT TO SCALE

Approved: *[Signature]* 2/25/98
Date
Chief, Division of Engineering DPW (for construction within proposed city R.O.W. and grading only)
[Signature] 3/2/98
Date
Chief, Planning & Engineering BWS
[Signature] 7/1/98
Date
Chief, Transportation Management Division, DTS (for construction within city R.O.W. only)

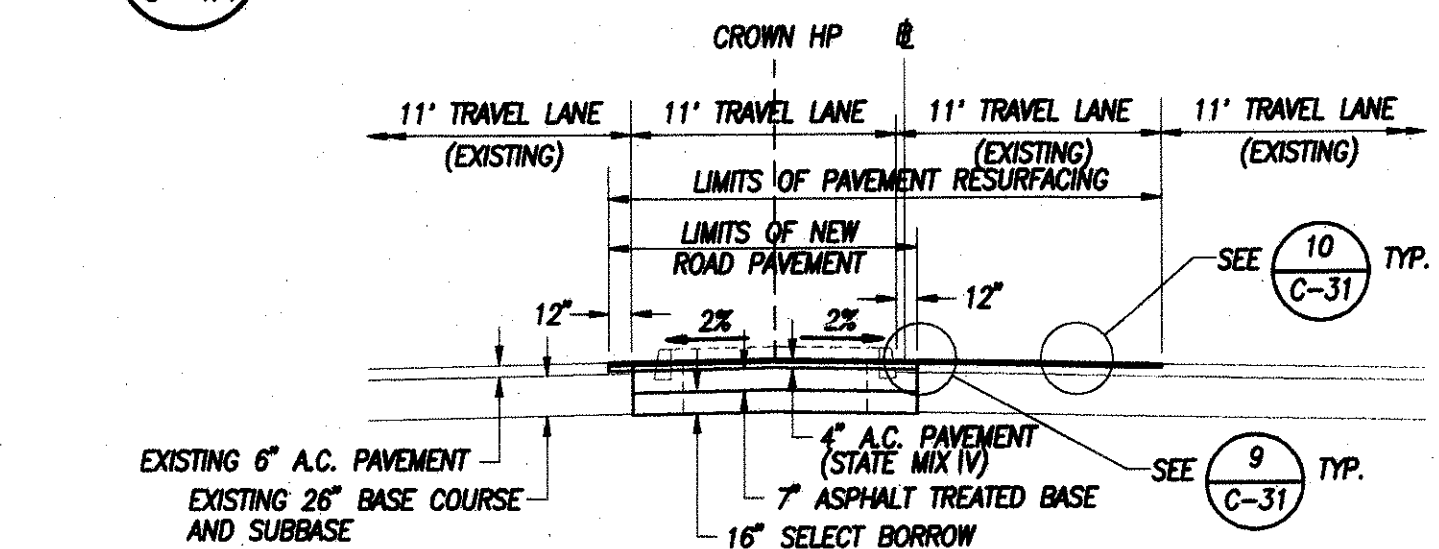
ENGINEER	HG	REVISION	DATE	1/13/98	REPLACES SHEET C-4	HG	BY	APPROVED
DRAFTSMAN	PCN	CHECKED BY	GHH	R. M. TOWILL CORPORATION ENGINEERS • PLANNERS • SURVEYORS • PHOTOGRAMMETRISTS CONSTRUCTION MANAGERS 420 Waiakamilo Road Honolulu, Hawaii 96817-4941				
THE ESTATE OF JAMES CAMPBELL, FINANCE REALTY COMPANY, AND HOUSING FINANCE AND DEVELOPMENT CORPORATION, STATE OF HAWAII								
FARRINGTON HIGHWAY IMPROVEMENTS EWA, OAHU, HAWAII T.M.K. : (1ST DIVISION) PORTION OF 9-1-16								
TYPICAL ROAD SECTIONS - 1								
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. <i>[Signature]</i> 1/13/98 DATE								
HPDC JOB NO. DEV 93-41 SCALE AS SHOWN DATE DEC 1997								



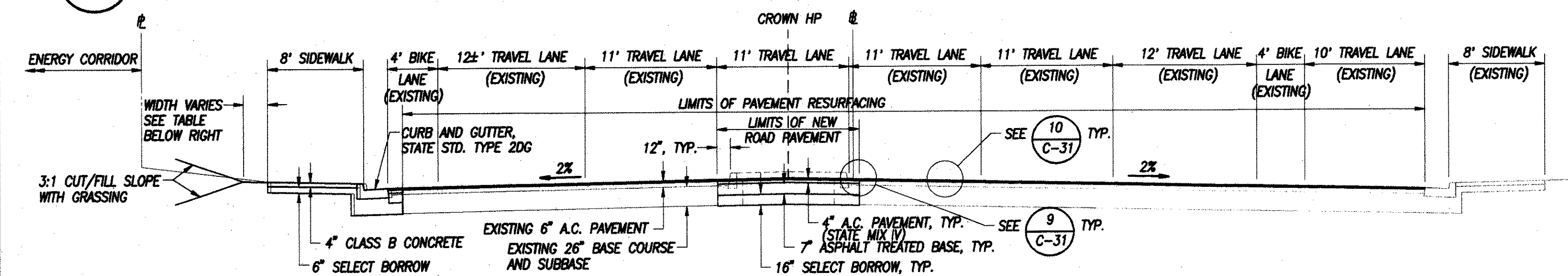
A SECTION - FORT BARRETTE ROAD AT STA. 60+70 (STATE)
C-4A SCALE: 1" = 8'



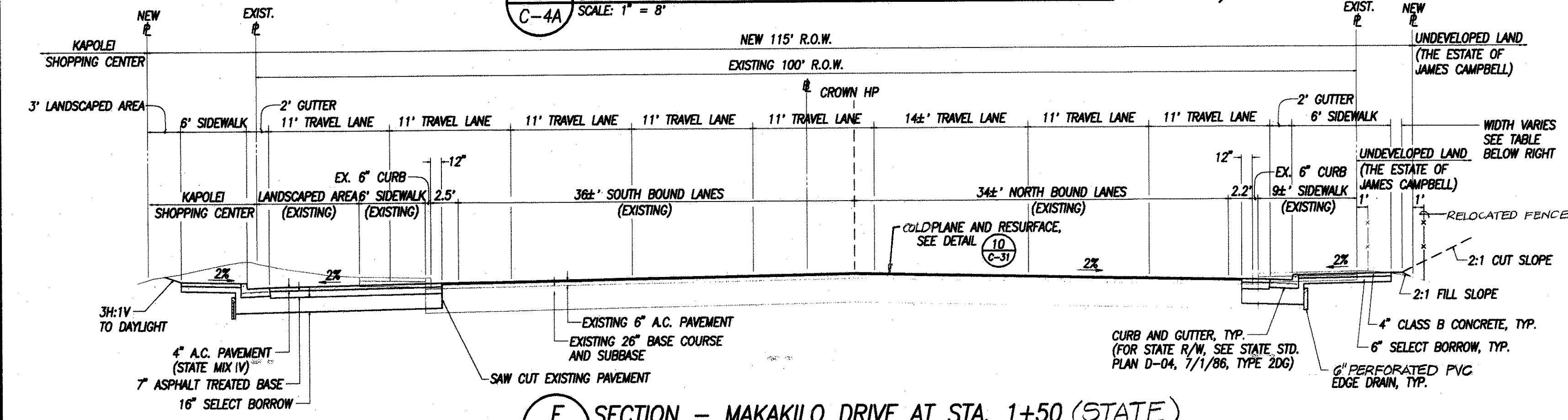
B SECTION - FORT BARRETTE ROAD AT STA. 61+50 (STATE)
C-4A SCALE: 1" = 8'



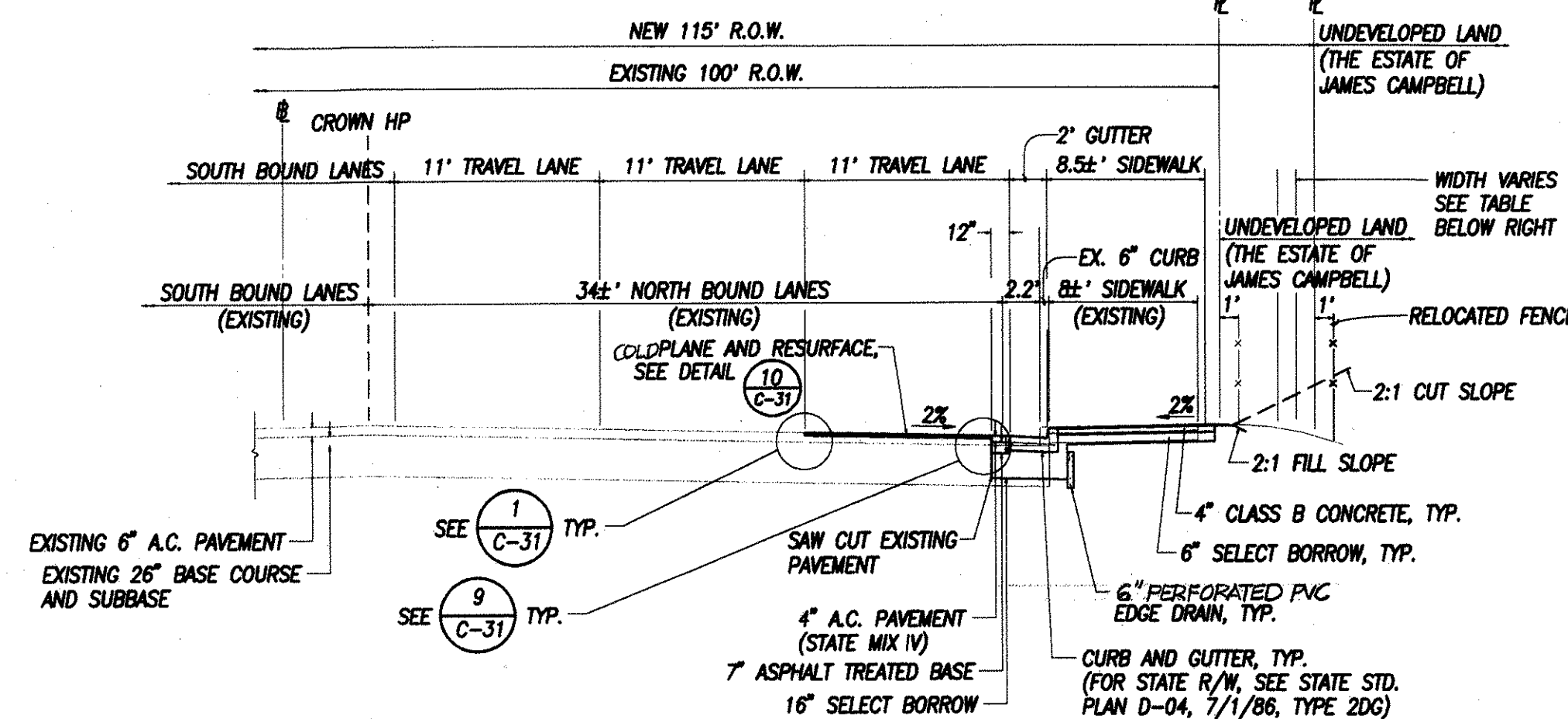
C SECTION - FARRINGTON HIGHWAY AT STA. 55+07 (STATE)
C-4A SCALE: 1" = 8'



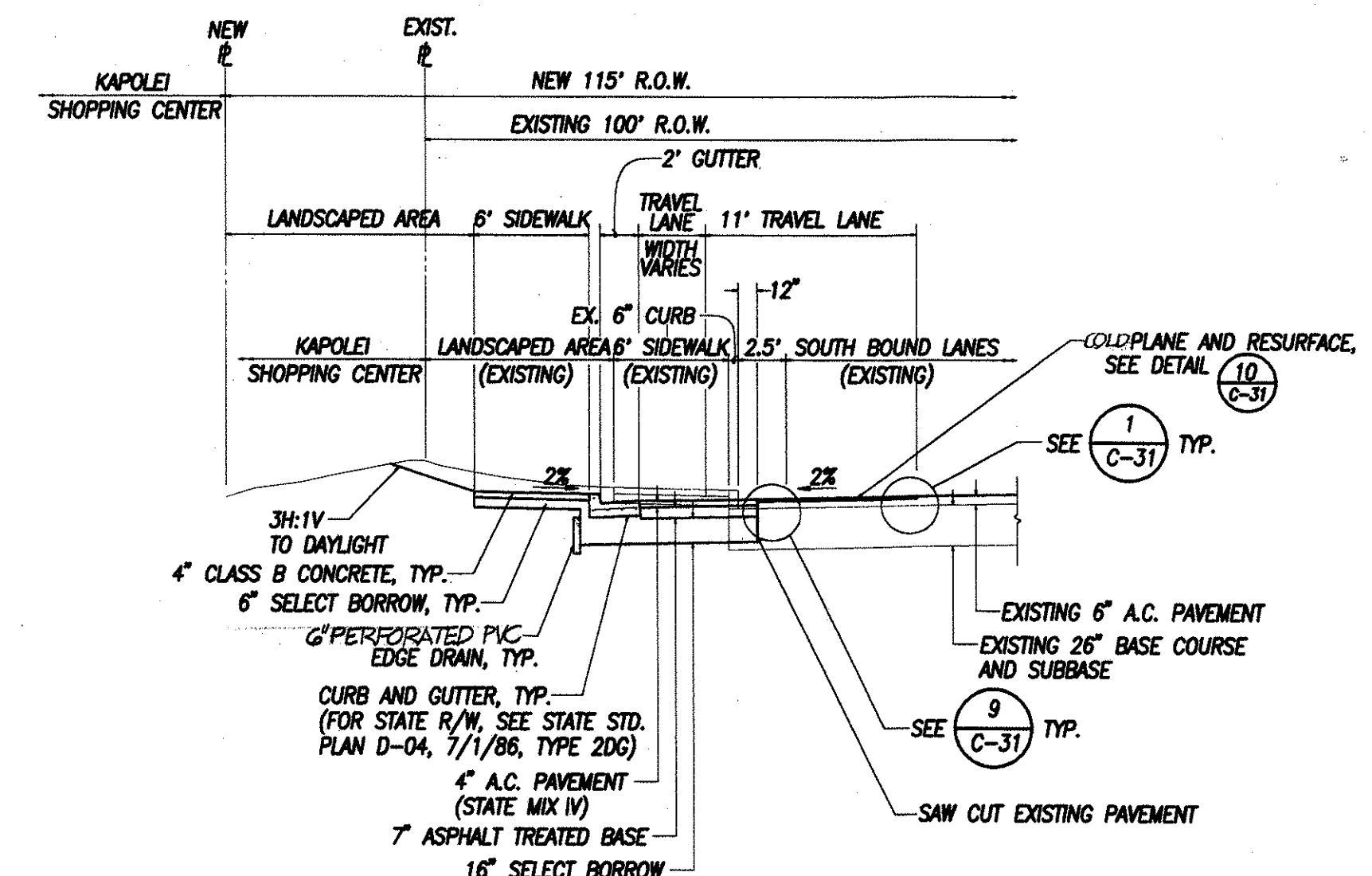
D SECTION - FARRINGTON HIGHWAY AT STA. 56+54 (STATE)
C-4A SCALE: 1" = 8'



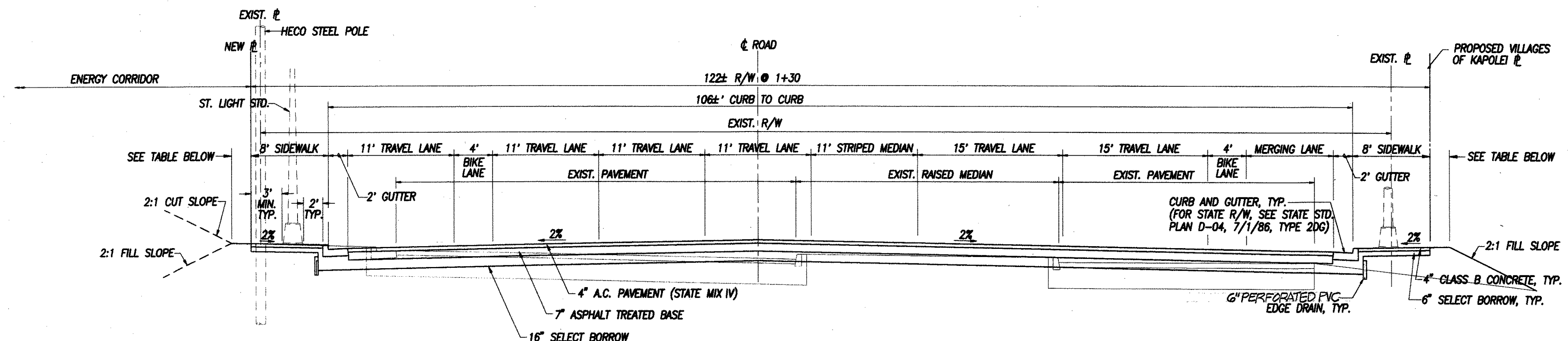
E SECTION - MAKAKILO DRIVE AT STA. 1+50 (STATE)
C-4A SCALE: 1" = 8'



F SECTION - MAKAKILO DRIVE (STATE)
C-4A SCALE: 1" = 8'



G SECTION - MAKAKILO DRIVE (STATE)
C-4A SCALE: 1" = 8'



H SECTION - FARRINGTON HIGHWAY AT STA. 1+30 (STATE)
C-4A SCALE: 1" = 8'

NOTES:

1. WITHIN CITY R/W:

- A. EXISTING PAVEMENT STRUCTURE (AVERAGE THICKNESS):
5" A.C. PAVEMENT, 7" BASE COURSE
- B. EXISTING PAVEMENT BASE COURSE MAY BE USED AS
NEW PAVEMENT SUBBASE, PROVIDED THE TOP OF THE
EXISTING BASE COURSE IS BETWEEN 24" AND 30" BELOW
FINISH GRADE.

2. WITHIN STATE R/W:

- A. EXISTING PAVEMENT STRUCTURE (AVERAGE THICKNESS):
6" A.C. PAVEMENT, 26" BASE COURSE AND SUBBASE COURSE
- B. EXISTING PAVEMENT BASE COURSE MAY BE USED AS
NEW PAVEMENT SUBBASE, PROVIDED THE TOP OF THE
EXISTING BASE COURSE IS BETWEEN 11" AND 27" BELOW
FINISH GRADE.

TABLE FOR HORIZONTAL DISTANCES FROM PROPERTY LINE TO TOP OF FILL OR BOTTOM OF CUT SLOPE	
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4 TO 8 FEET	4
8 TO 15 FEET	6
GREATER THAN 15 FEET	8

PROPOSED PUBLIC ROAD

ENGINEER	HG/LY	DATE	1/13/98	ADDED SHEET	H6
DRAFTSMAN	PCN	DATE		BRIEF	
CHECKED BY	GHH	DATE		BY	APPROVED

R. M. TOWILL CORPORATION
ENGINEERS • PLANNERS • SURVEYORS • PHOTOGRAMMETRISTS
CONSTRUCTION MANAGERS
420 Waiakamilo Road
Honolulu, Hawaii 96817-4941

THE ESTATE OF JAMES CAMPBELL,
FINANCE REALTY COMPANY, AND
HOUSING FINANCE AND DEVELOPMENT CORPORATION,
STATE OF HAWAII

FARRINGTON HIGHWAY IMPROVEMENTS
EWA, OAHU, HAWAII
TMK: (1ST DIVISION) PORTION OF 9-1-16

TYPICAL ROAD SECTIONS - 2 (STATE)

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
SIGNATURE: *Greg H. Hiyaikimoto* DATE: 1/13/98

HDC JOB NO. DEV 93-41 SCALE AS SHOWN DATE DEC 1997

FILE POCKET FOLDER NO.