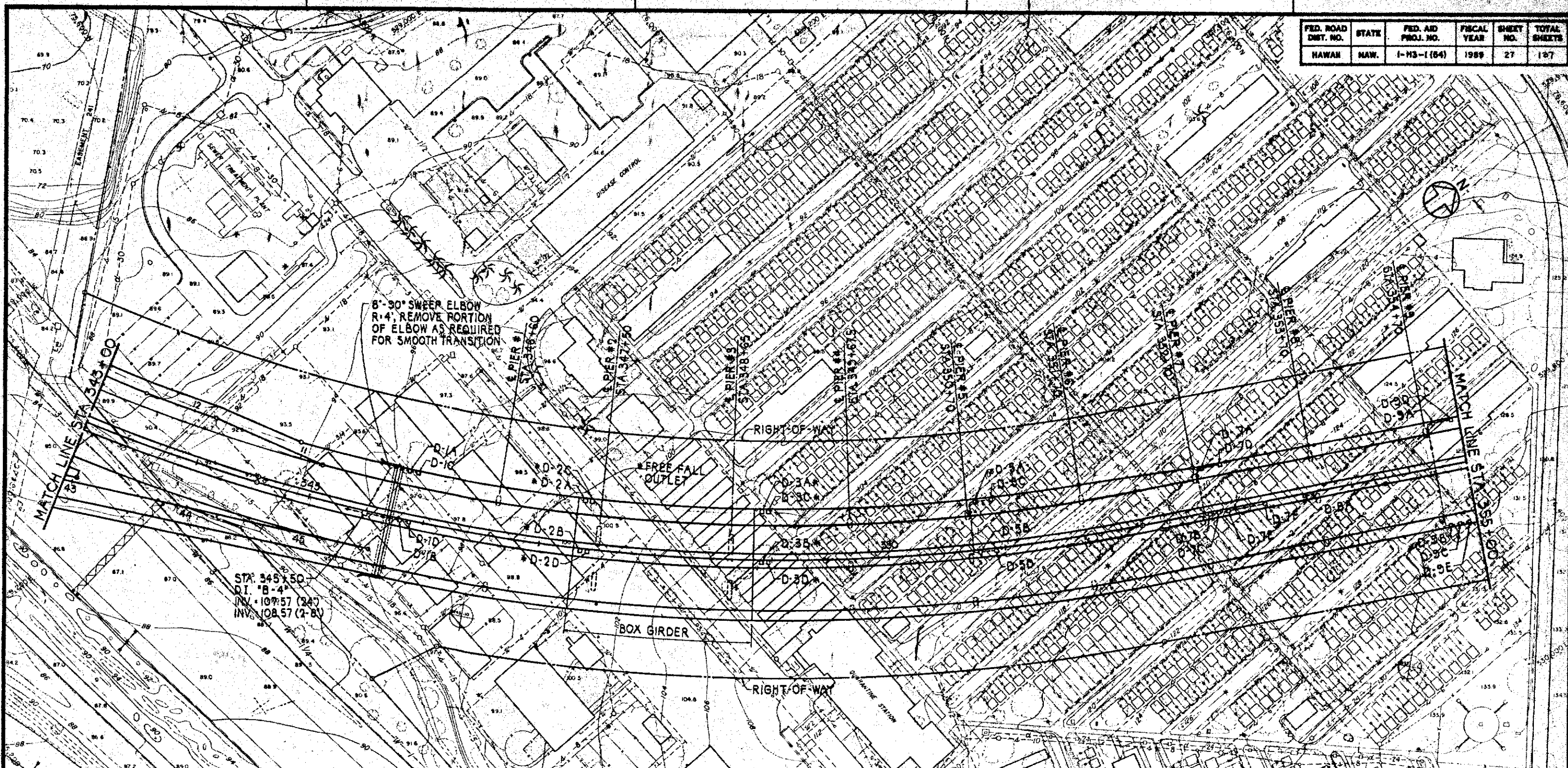


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1 (54)	1989	27	127



SURVEYED BY _____ DATE _____
 DRAWN BY _____
 CHECKED BY _____
 ORIGINAL PLAN _____
 NOTE BOOK _____

DECK DRAIN INLET SCHEDULE								
NUMBER	TYPE	LOCATION (H-3 & STA.)	NUMBER	TYPE	LOCATION (H-3 & STA.)	NUMBER	TYPE	LOCATION (H-3 & STA.)
D-1A	B	345 + 80	D-3C	B	348 + 98	D-7E	C	352 + 93
D-1B	C	345 + 80	D-3D	C	348 + 98	D-7F	C	353 + 25
D-1C	B	345 + 88	D-5A	B	350 + 78	D-8A	C	353 + 60
D-1D	C	345 + 88	D-5B	C	350 + 78	D-9A	B	354 + 78
D-2A	*	347 + 36	D-5C	B	350 + 93	D-9B	B	354 + 78
D-2B	*	347 + 36	D-5D	C	350 + 93	D-9C	B	354 + 85
D-2C	*	347 + 42	D-7A	B	352 + 78	D-9D	B	354 + 93
D-2D	*	347 + 42	D-7B	C	352 + 78	D-9E	B	354 + 93
D-3A	B	348 + 92	D-7C	C	352 + 85			
D-3B	C	348 + 92	D-7D	B	352 + 85			

* FOR DECK DRAIN INLET TYPE SEE STRUCTURAL SHEET

NOTE:
 TOPOGRAPHIC SURVEY AND CONTROL POINTS
 FURNISHED BY STATE DEPARTMENT OF TRANSPORTATION.

REDUCED PLAN
 (HALF SIZE)
 3 INCHES ON ORIGINAL PLAN

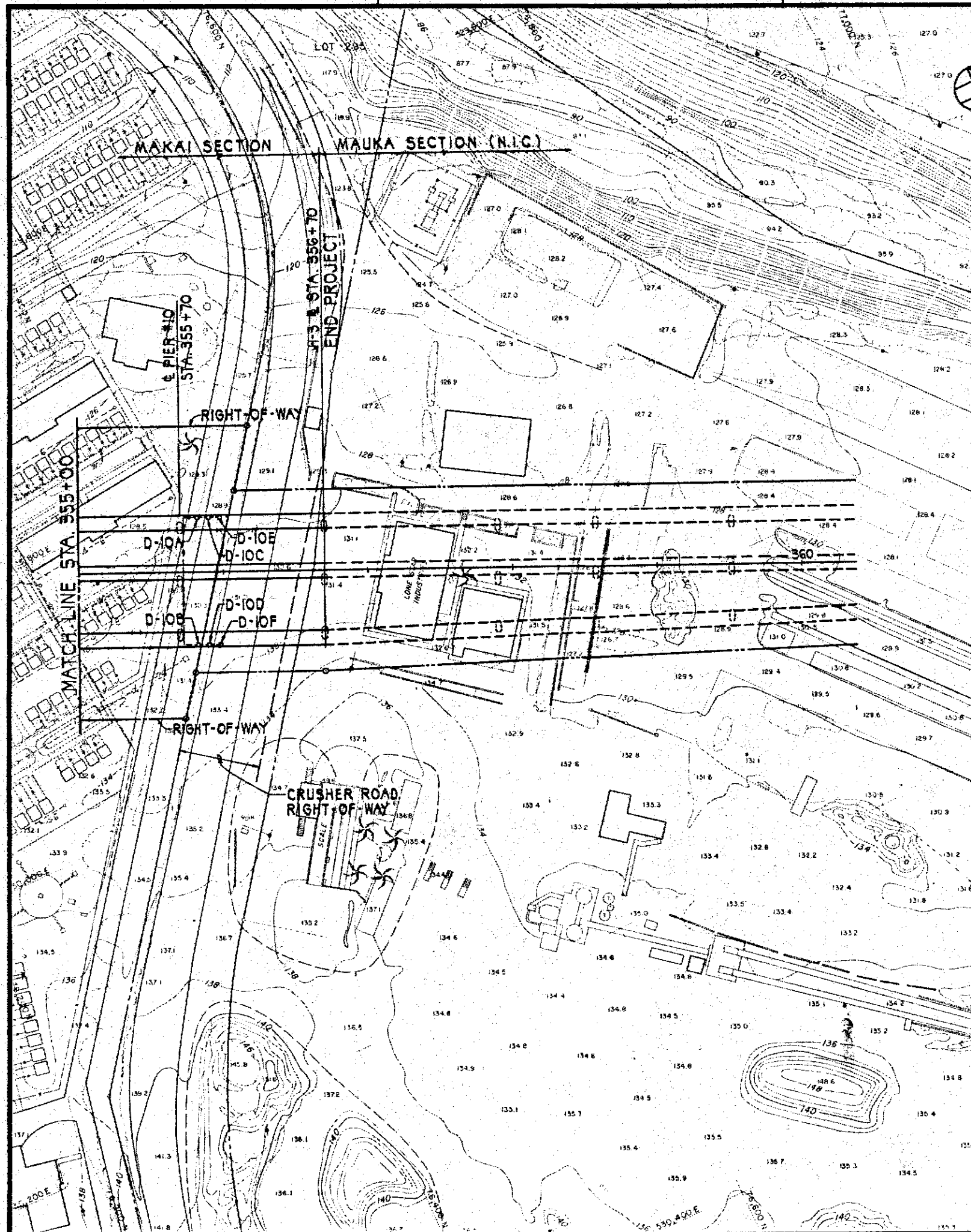


STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

BRIDGE DECK
 DRAIN LAYOUT PLAN
 STA. 343 + 00 TO STA. 355 + 00
 INTERSTATE ROUTE H-3
 F.A.I. PROJECT NO. I-H3-1(54)
 SCALE: 1" = 40'
 SHEET No. 100 OF 6 SHEETS

DATE: SEPT. 1989

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(54)	1988	28	127



NOTE:

TOPOGRAPHIC SURVEY AND CONTROL POINTS
FURNISHED BY STATE DEPARTMENT OF TRANSPORTATION.

DECK DRAIN INLET SCHEDULE		
NUMBER	TYPE	LOCATION (H-3 & STA.)
D-10A	B	355 + 82
D-10B	B	355 + 82
D-10C	B	355 + 90
D-10D	B	355 + 90
D-10E	B	355 + 98
D-10F	B	355 + 98

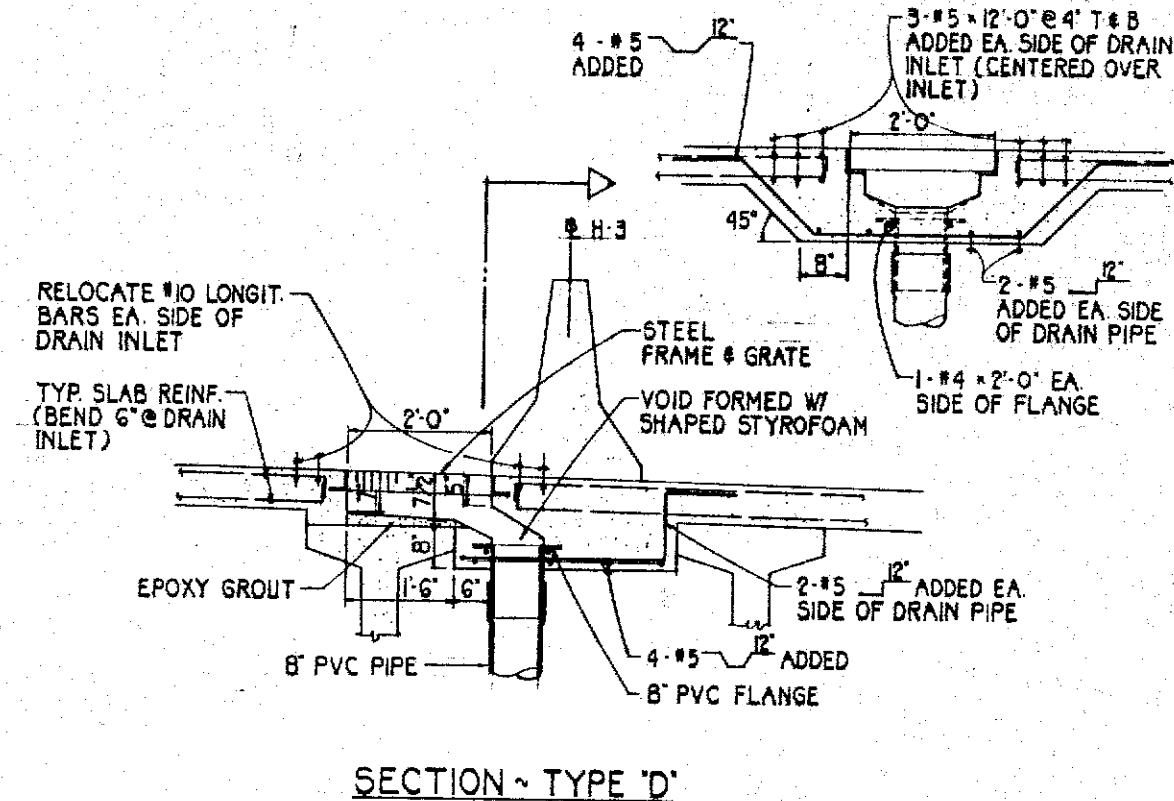
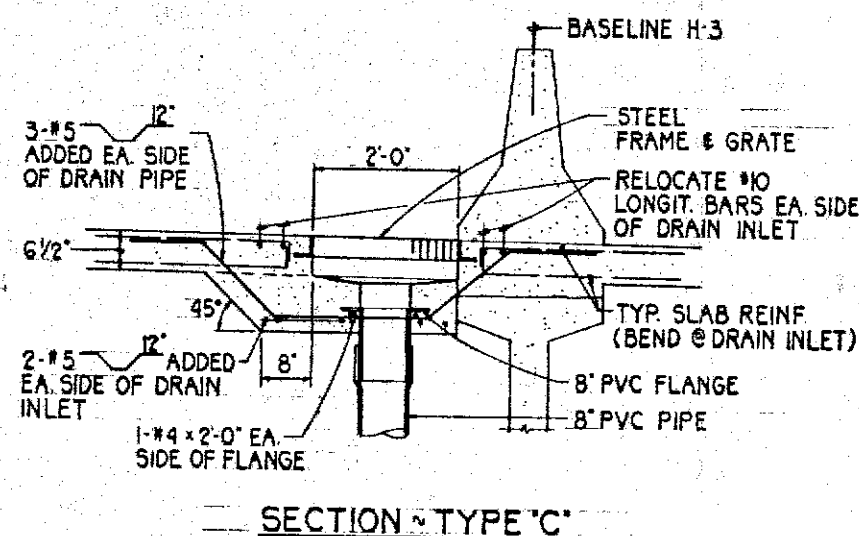
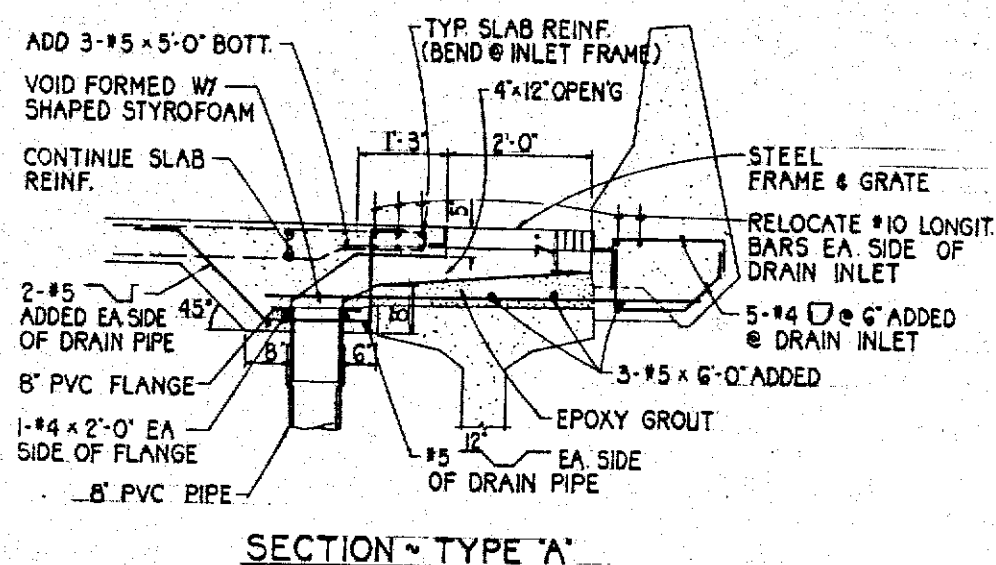
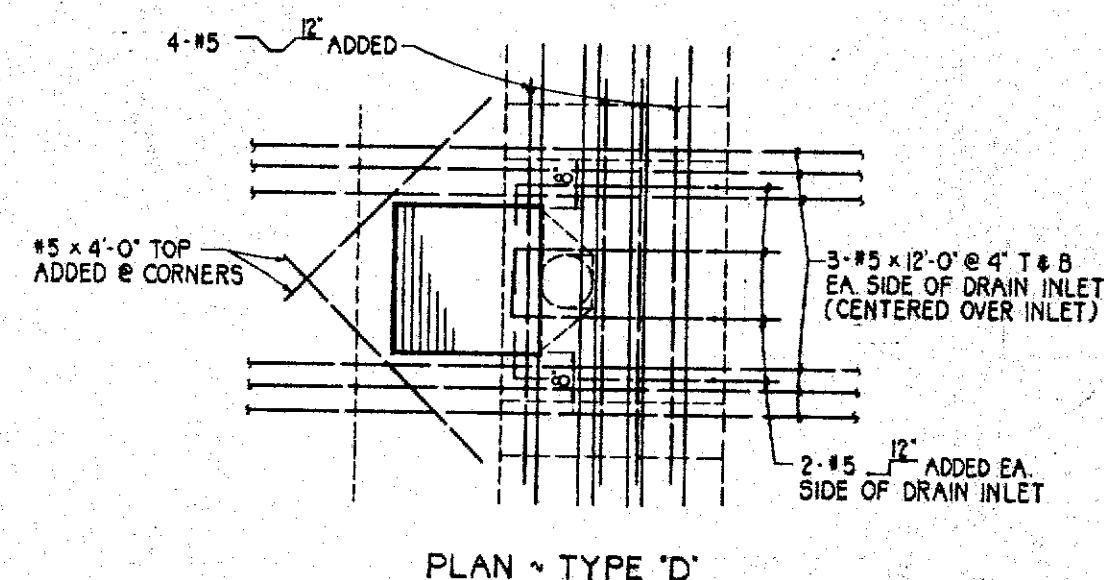
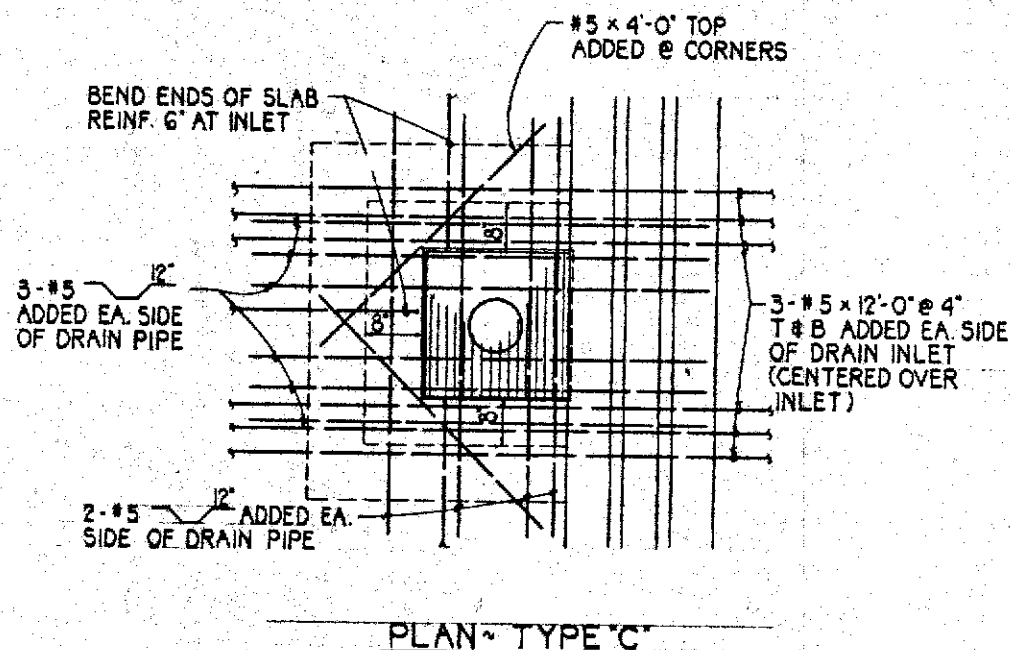
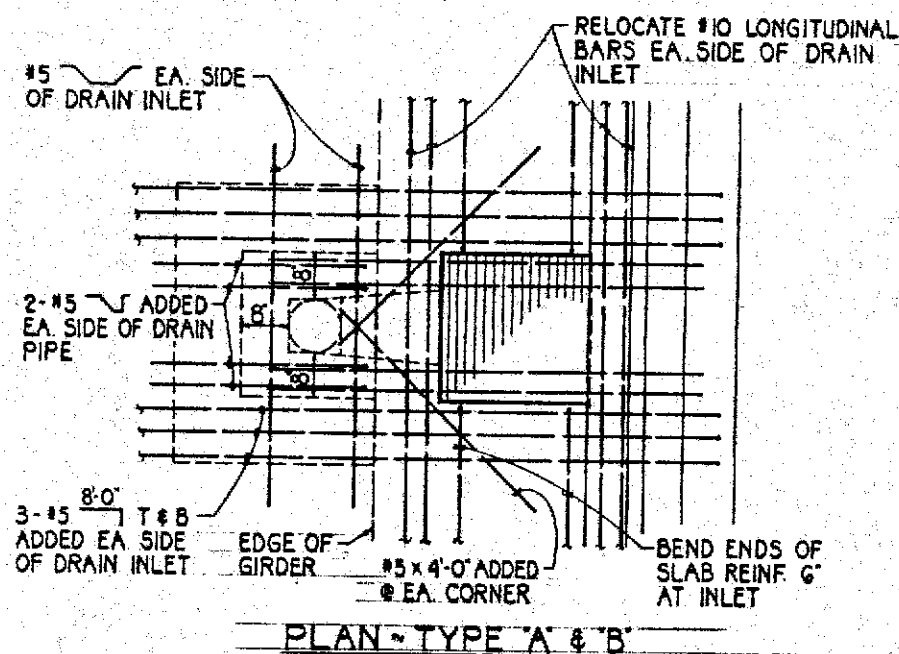
REDUCED PLAN
(HALF SIZE)
0 1 2 3
1/3 INCHES ON ORIGINAL PLAN



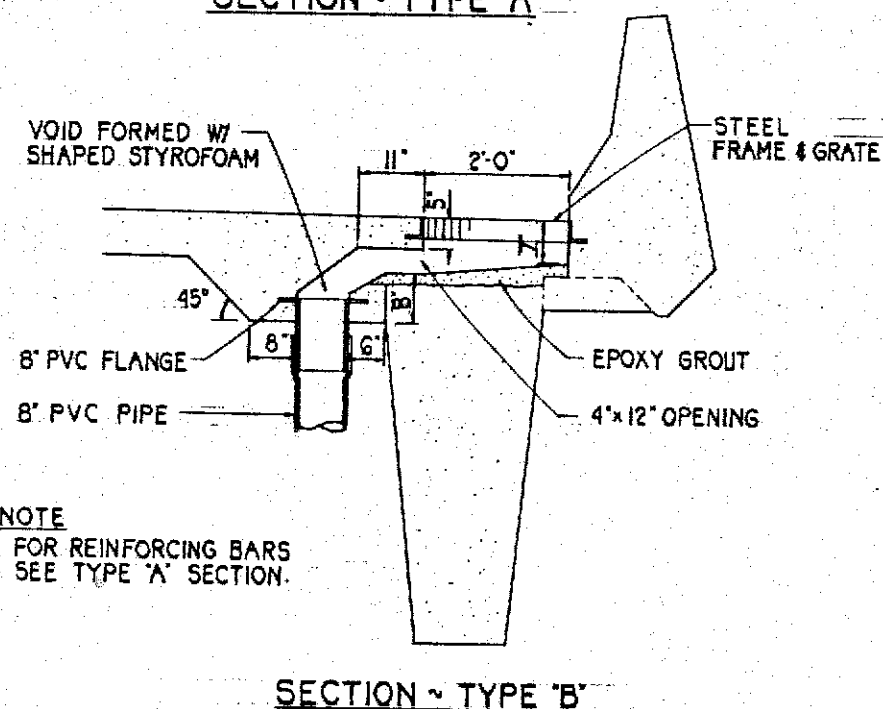
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Sheldon S. Kawahara

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**BRIDGE DECK
DRAIN LAYOUT PLAN**
STA. 355 + 00 TO STA. 356 + 70
INTERSTATE ROUTE H-3
F.A.I. PROJECT NO. I-H3-1(54)
SCALE: 1" = 40' DATE: SEPT. 1988
SHEET NO. 200 OF 6 SHEETS

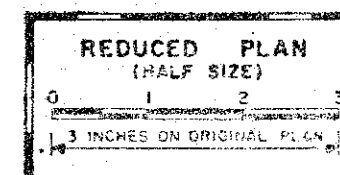
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H3-1(54)	1989	29	127



TYPICAL
DECK DRAIN INLET DETAILS
SCALE: 3/4" = 1'-0"



NOTE
FOR REINFORCING BARS
SEE TYPE 'A' SECTION.



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Theodore S. Kawahara

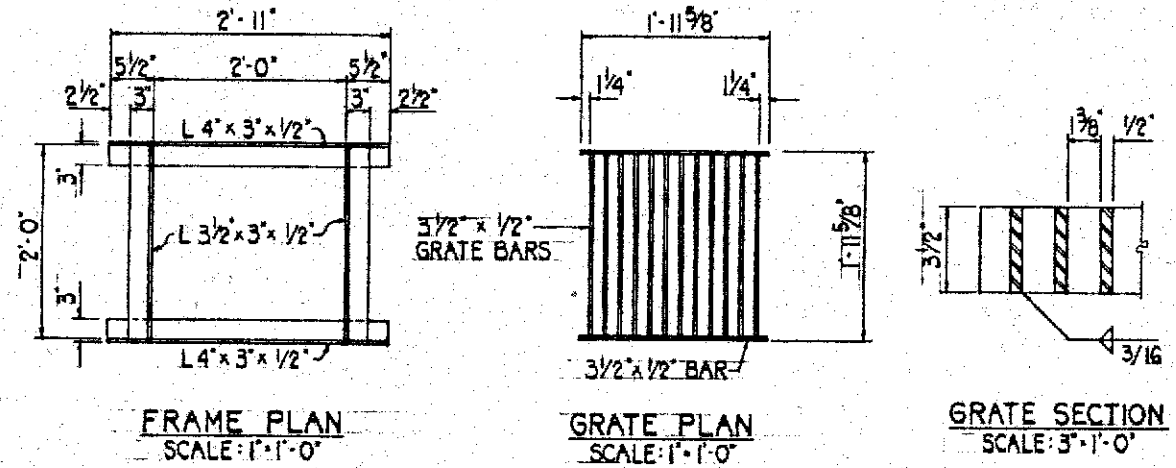
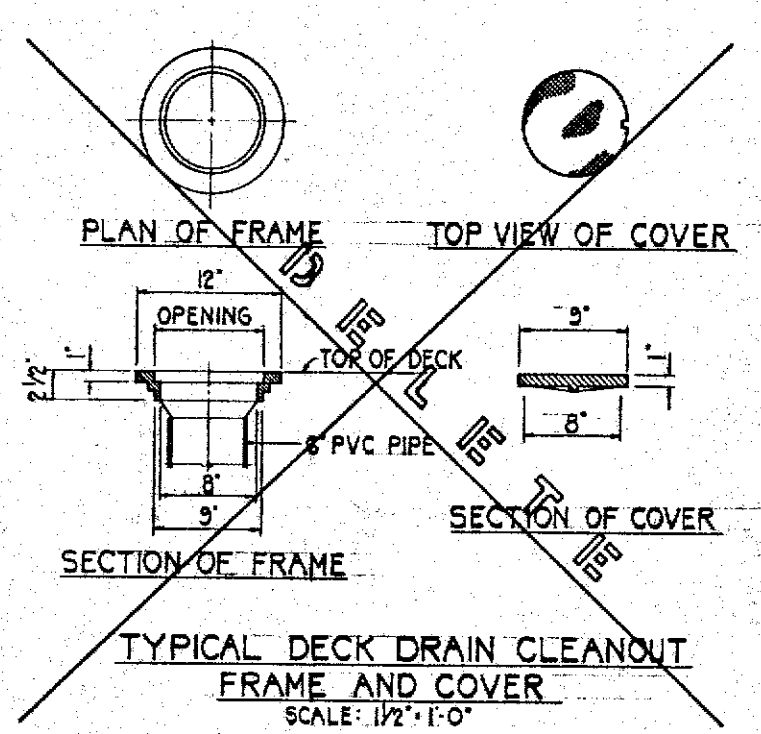
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DECK DRAIN DETAILS

INTERSTATE ROUTE H-3
F.A.I. PROJECT NO. 1-H3-1(54)

SCALE: AS NOTED DATE: SEPT. 1988
SHEET NO. 300 OF 6 SHEETS

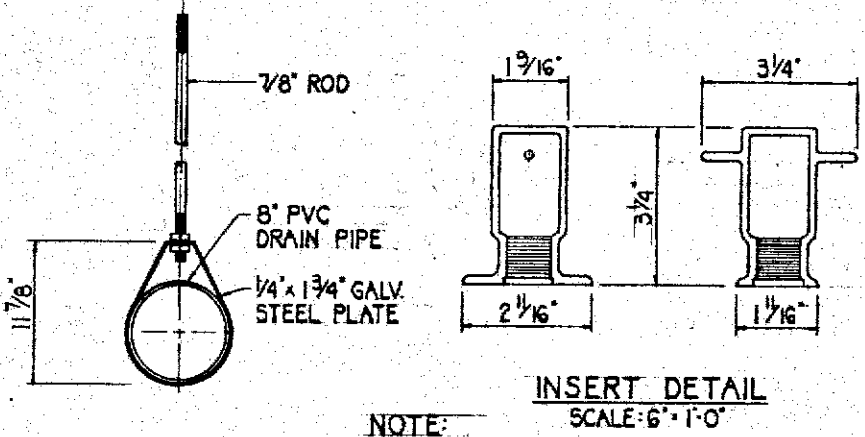
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(54)	1989	30	127



TYPICAL DECK DRAIN INLET TYPE B-1 STEEL FRAME AND GRATE

NOTE: DECK DRAIN FRAME AND GRATE SHALL CONFORM TO SECTION 604 OF THE STANDARD SPECIFICATION.

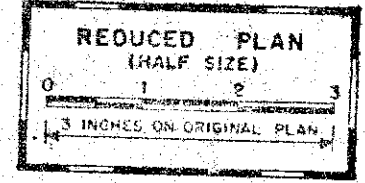
- GENERAL NOTES:
1. ALL PIPE SLOPES SHALL BE MAXIMIZED TO THE GREATEST EXTENT POSSIBLE WITHOUT EXTENDING BELOW THE BOTTOM OF THE GIRDERS.
 2. ALL PVC PIPES AND FITTINGS SHALL BE TYPE I SCHEDULE 40.
 3. DECK DRAIN CLEANOUT METAL FRAME AND COVER CASTING SHALL BE DUCTILE IRON, DESIGNED FOR HIGHWAY TRAFFIC WHEEL LOADS OF 16,000 LBS., AND SHALL CONFORM WITH ASTM DESIGNATION A536.
 4. FLEXIBLE EXPANSION COUPLINGS SHALL BE OF REINFORCED NEOPRENE ACCORDIAN TYPE WITH HEAVY DUTY, STAINLESS STEEL 1" WIDE "T" BOLT CLAMPS.
 5. DECK DRAIN PIPING, FITTINGS, CLEANOUT AND COVER SHALL BE INCIDENTAL TO CONCRETE IN BRIDGE.
 6. ALL PIPES AND FITTINGS LOCATED WITHIN BOX GIRDER CELLS SHALL BE DUCTILE IRON. ALL EXPOSED PIPES AND FITTINGS SHALL BE PVC, TYPE I SCHEDULE 40. CONNECT PVC AND DUCTILE IRON PIPES WITH STEEL TRANSITION COUPLINGS (GRADE 30 GASKETS AND HIGH STRENGTH LOW ALLOY STEEL BOLTS WITH HEAVY SEMI-FINISHED HEXAGON NUTS TO ASTM A325 TYPE 3).



NOTE: INSERTS AND HANGERS TO DEVELOP A MINIMUM ULTIMATE PULLING STRENGTH OF 13 KIPS.

DETAIL OF PIPE HANGERS AND INSERTS

ORIGINAL PLAN	DATE
SURVEY	BY
DRAWN BY	DATE
TRACED BY	DATE
QUANTITIES BY	DATE
CHECKED BY	DATE
NOTES	DATE
NO.	DATE



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Theodore A. Kamehigaki

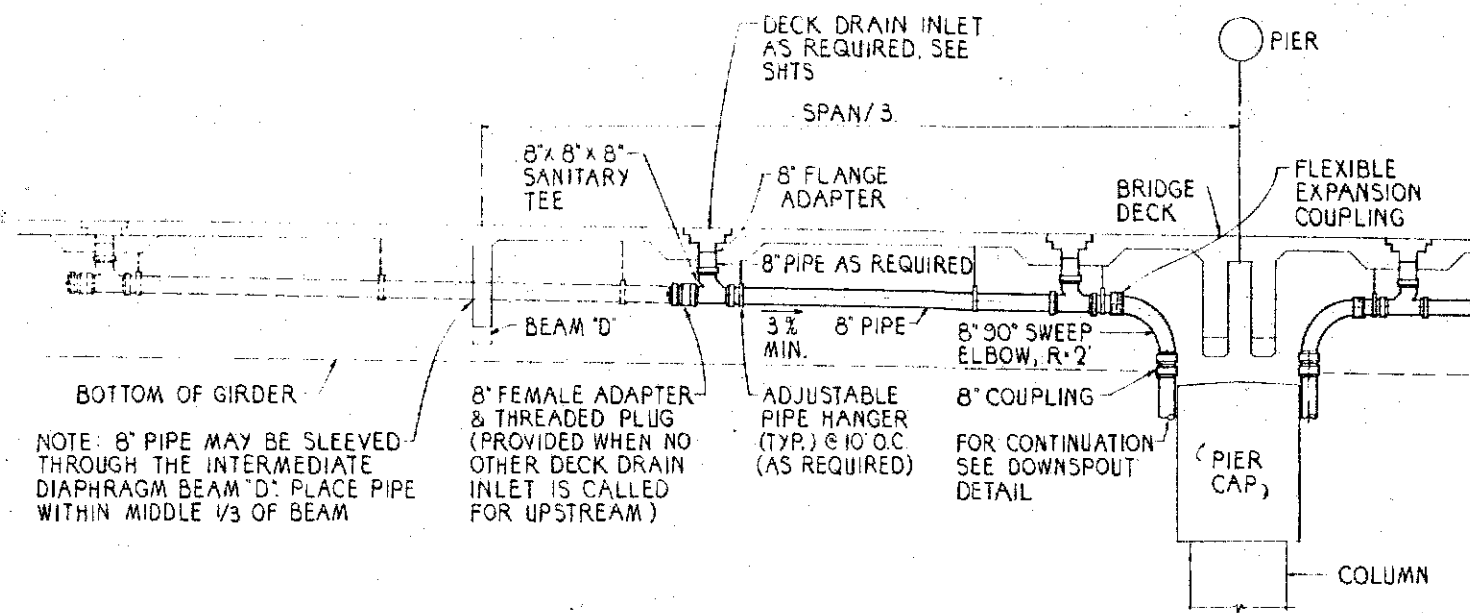
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION

DECK DRAIN DETAILS

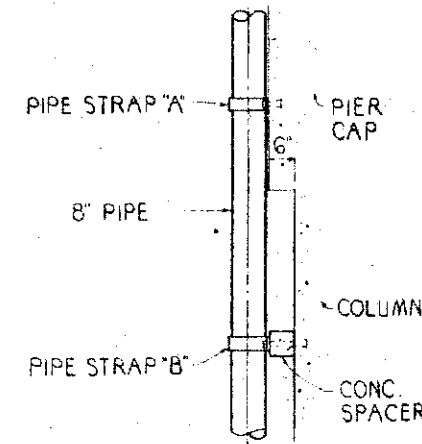
INTERSTATE ROUTE H-3
F.A.I. PROJECT NO. I-H3-1(54)

SCALE: AS NOTED
DATE: SEPT. 1988
SHEET No. 400 OF 6 SHEETS

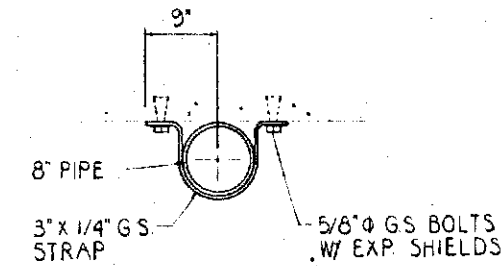
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(54)	1989	31	137



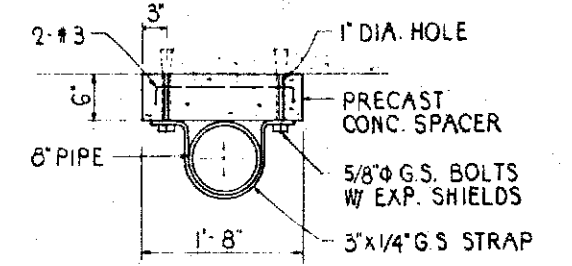
TYPICAL DECK DRAIN LINE
SCALE: 1/4" = 1'-0"



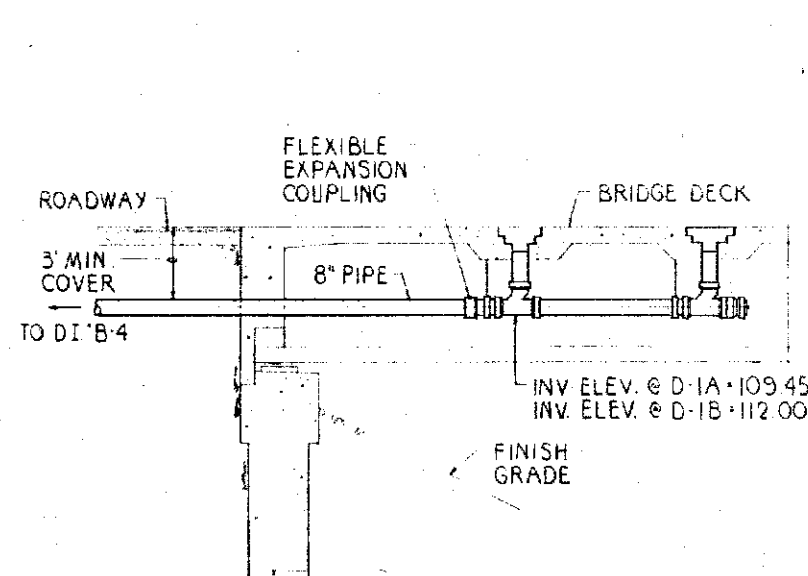
ELEVATION
SCALE: 1/2" = 1'-0"



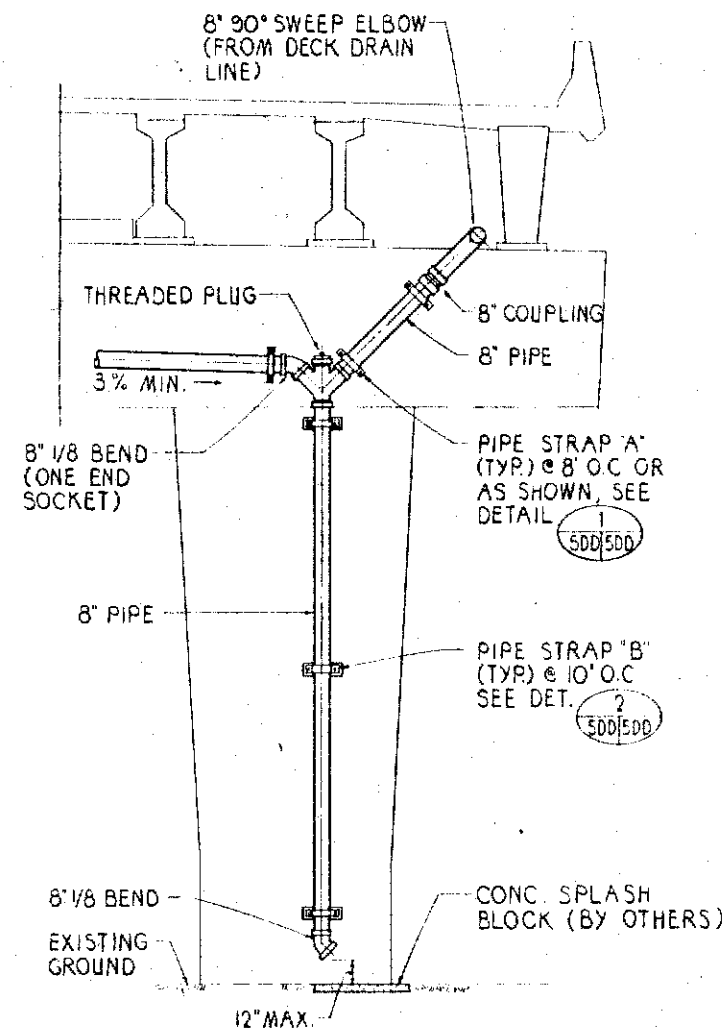
PIPE STRAP 'A'
SCALE: 1" = 1'-0"



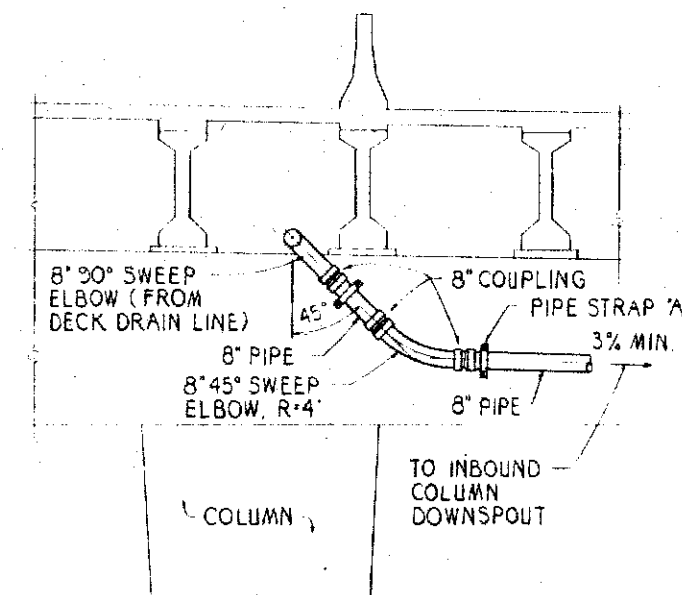
PIPE STRAP 'B'
SCALE: 1" = 1'-0"



DECK DRAIN LINES THROUGH ABUTMENT #1
SCALE: 1/4" = 1'-0"



**INBOUND
PIER NOS. 5 AND 7
DOWNSPOUT DETAIL**
SCALE: 1/4" = 1'-0"



MEDIAN DRAIN ~ PIER NOS. 5 AND 7
SCALE: 1/4" = 1'-0"
(LOOKING DOWNSTATION)



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Theodore S. Kawahigata

2/9/89	REVISED SPLASH BLOCK CALLOUT AND MIN. PIPE SLOPE
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DECK DRAIN DETAILS	
INTERSTATE ROUTE H-3 F.A.I. PROJECT NO. I-H3-1(54)	
SCALE: AS NOTED	DATE: SEPT. 1988
SHEET NO. 500 OF 6 SHEETS	

