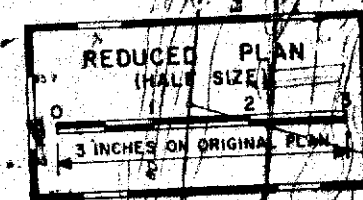


TEMPORARY GROUND COVER NOTES

PLANT TEMPORARY GROUND COVER ON ALL NON-PAVEMENT AREAS (WITHIN THE LIMITS OF GRADING) IMMEDIATELY AFTER GRADING OPERATIONS, ACCORDING TO SECTION 653 OF THE SPECIAL PROVISIONS.



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1 (54)	1989	20	157

STA. 0+00 (D/L 'B')
STA. 71+00 O/S 45' RT.
(RAMP N 8)
TYPE I OUTLET INTO
EXIST. CONC. TRAP CHANNEL
INV. 67.81
SEE DET. SHT. 25

STA. 0+00 (D/L 'A')
STA. 18+05 O/S 45' RT.
(RAMP N 8)
TYPE I OUTLET INTO
EXIST. CONC. TRAP CHANNEL
INV. 66.03
SEE DET. SHT. 25

STA. 1+44 (D/L 'A')
STA. 357+04 O/S 3.1 RT. (H-3)
D.I. 'A-1' TYPE II GRATED
CONC. DRAIN INLET
TOP = 76.43
INV. = 70.93

MATCH EXIST. PAVEMENT PROVIDE
SMOOTH RIDING CONNECTION

STA. 333+78 TO
STA. 336+04
GROUTED RUBBLE
PAVING (9" THICK)

DRAIN TO EXIST.
SPILLWAY

LIMITS OF GRADING

STA. 333+78 TO
STA. 336+04
GROUTED RUBBLE
PAVING (9" THICK)

TYPE 4A
GUARD RAIL

RAMP N 8
SEE DET. SHT. 25

H-3 MEDIAN BARRIER
SEE DET. SHT. 25

TYPE C FLARE
TYPE G
TERMINAL

TYPE 4A
GUARD RAIL

RAMP N 8
SEE DET. SHT. 25

H-3 MEDIAN BARRIER
SEE DET. SHT. 25

TYPE C FLARE
TYPE G
TERMINAL

TYPE 4A
GUARD RAIL

PROVIDE 5' SMOOTH
RIDING TRANSITION TO
EXIST. SERVICE ROAD

CONST. RETAINING
WALL. SEE SHT. 114

RAMP N 8 STA. 16+40+
CUT AND END EXIST.
CHAIN LINK FENCE

EXIST. CHAIN LINK
FENCE TO REMAIN

CLEAR AND GRUB FOR
NEW LANDSCAPING

RAMP N 8 STA. 18+53+
END NEW 6' CHAIN
LINK FENCE

RAMP N 8 STA. 18+53+
END NEW 6' CHAIN
LINK FENCE

RAMP N 8 STA. 18+53+
END NEW 6' CHAIN
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RAMP N 8 STA. 18+53+
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END NEW 6' CHAIN
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RAMP N 8 STA. 18+53+
END NEW 6' CHAIN
LINK FENCE

STA. 3+58.44 (D/L 'B')
STA. 341+20 O/S 2.47 RT.
(H-3)
D.I. 'B-2' TYPE I GRATED
CONC. DRAIN INLET
TOP = 89.75
INV. = 84.25

LIMITS OF GRADING

NEW 6' CHAIN LINK
FENCE

RAMP N 8 STA. 15+11
O/S 73' RT.

REMOVE EXIST.
CHAIN LINK
FENCE

RAMP N 8 STA. 15+11
O/S 73' RT.

RAMP N 8 STA. 15+11
O/S 73' RT.

RAMP N 8 STA. 15+11
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RAMP N 8 STA. 15+11
O/S 73' RT.

RAMP N 8 STA. 15+11
O/S 73' RT.

RAMP N 8 STA. 13+41 O/S 26' RT.
CONNECT TO
EXIST. CHAIN
LINK FENCE

LIMITS OF GRADING

NEW 6' CHAIN LINK
FENCE

RAMP N 8 STA. 15+11
O/S 73' RT.

REMOVE EXIST.
CHAIN LINK
FENCE

RAMP N 8 STA. 15+11
O/S 73' RT.

RAMP N 8 STA. 15+11
O/S 73' RT.

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RAMP N 8 STA. 15+11
O/S 73' RT.

DRAIN LINE CURVE
BETWEEN D.I. 'B-2' & 'B-3'
SEE DET. SHT. 22

LIMITS OF GRADING

NEW 6' CHAIN LINK
FENCE

RAMP N 8 STA. 15+11
O/S 73' RT.

REMOVE EXIST.
CHAIN LINK
FENCE

RAMP N 8 STA. 15+11
O/S 73' RT.

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RAMP N 8 STA. 15+11
O/S 73' RT.

DRAIN LINE CURVE
BETWEEN D.I. 'B-2' & 'B-3'
SEE DET. SHT. 22

LIMITS OF GRADING

NEW 6' CHAIN LINK
FENCE

RAMP N 8 STA. 15+11
O/S 73' RT.

REMOVE EXIST.
CHAIN LINK
FENCE

RAMP N 8 STA. 15+11
O/S 73' RT.

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O/S 73' RT.

RAMP N 8 STA. 15+11
O/S 73' RT.

DRAIN LINE CURVE
BETWEEN D.I. 'B-2' & 'B-3'
SEE DET. SHT. 22

LIMITS OF GRADING

NEW 6' CHAIN LINK
FENCE

RAMP N 8 STA. 15+11
O/S 73' RT.

REMOVE EXIST.
CHAIN LINK
FENCE

RAMP N 8 STA. 15+11
O/S 73' RT.

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O/S 73' RT.

DRAIN LINE CURVE
BETWEEN D.I. 'B-2' & 'B-3'
SEE DET. SHT. 22

LIMITS OF GRADING

NEW 6' CHAIN LINK
FENCE

RAMP N 8 STA. 15+11
O/S 73' RT.

REMOVE EXIST.
CHAIN LINK
FENCE

RAMP N 8 STA. 15+11
O/S 73' RT.

RAMP N 8 STA. 15+11
O/S 73' RT.

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O/S 73' RT.

RAMP N 8 STA. 15+11
O/S 73' RT.

RAMP N 8 STA. 15+11
O/S 73' RT.

RAMP N 8 STA.

FED. ROAD DIST. NO.	STATE	FED. AND PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1 (54)	1989	21	137

STA. 5 + 98.87 (D/L "B") =
STA. 343 + 60 O/S 2.47 RT. (H-3 &)
D.I. "B-3", TYPE I GRATED
CONC. DRAIN INLET
TOP = 102.75
INV. = 97.17

LIMITS OF GRADING
TYPE 3
GUARDRAIL

H-3 STA 345+28
END TYPE 3 GUARDRAIL

H-3 STA 345+53
H-3 STA 345+70
RAMP N. STA 345+70
BEARING ABUTMENT #1

END POST
CONNECTION

PIER #1
STA 346+60

PIER #2
STA 347+50

PIER #3
STA 348+85

PIER #4
STA 349+67.5

PIER #5
STA 350+70

PIER #6
STA 351+70

PIER #7
STA 352+70

PIER #8
STA 353+70

PIER #9
STA 354+70

PIER #7 OUTFALL
FIN. GRADE @
PIER + 120.2

PIER #6 OUTFALL
(INSOUND)
FIN. GRADE @
PIER + 120.1

PIER #8 OUTFALL
FIN. GRADE @
PIER + 120.2

PIER #9 OUTFALL
FIN. GRADE @
PIER + 121.5

TYPE 3
GUARDRAIL

END TYPE 3 GUARDRAIL
H-3 STA 343 + 04

DRAIN LINE CURVE
BETWEEN D.I. "B-3" & "B-4"
SEE DETAIL SHT. 22

END POST
CONNECTION

RAMP N. STA 45+28
END TYPE 3 GUARDRAIL

RAMP N. STA 45+53
END TYPE 3 GUARDRAIL

SERVICE ROAD
FOR GEOMETRICS SEE SHT. 33
FOR PROFILE SEE SHT. 34

LIMITS OF GRADING

STA. 7 + 89.23 (D/L "B") =
STA. 345 + 50 O/S 2.47 RT. (H-3 &)
D.I. "B-4", TYPE I GRATED
CONC. DRAIN INLET
TOP = 114.15
INV. = 107.57

RIGHT-OF-WAY

CHAIN LINK FENCE
BY OTHERS

NOTE:

REMOVE EXIST. AC PAVEMENT
AND MEDIAN BARRIER WITHIN
LIMITS OF GRADING SHOWN.
AS WELL AS ANY REMAINING PAVEMENT
AND MEDIAN BARRIER NOT REMOVED
BY THE AGS CONTRACTOR.

REDUCED PLAN
(HALF SIZE)

3 INCHES ON ORIGINAL PLAN



2/5/89 REMOVED EXIST. SLUDGE BEDS
AND ANIMAL PENS (AGS) REMOVED
PIER #8 SPLASH BLK. & REVISED NOTE

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADING AND
DRAINAGE PLAN

STA. 343 + 00 TO STA. 355 + 00

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

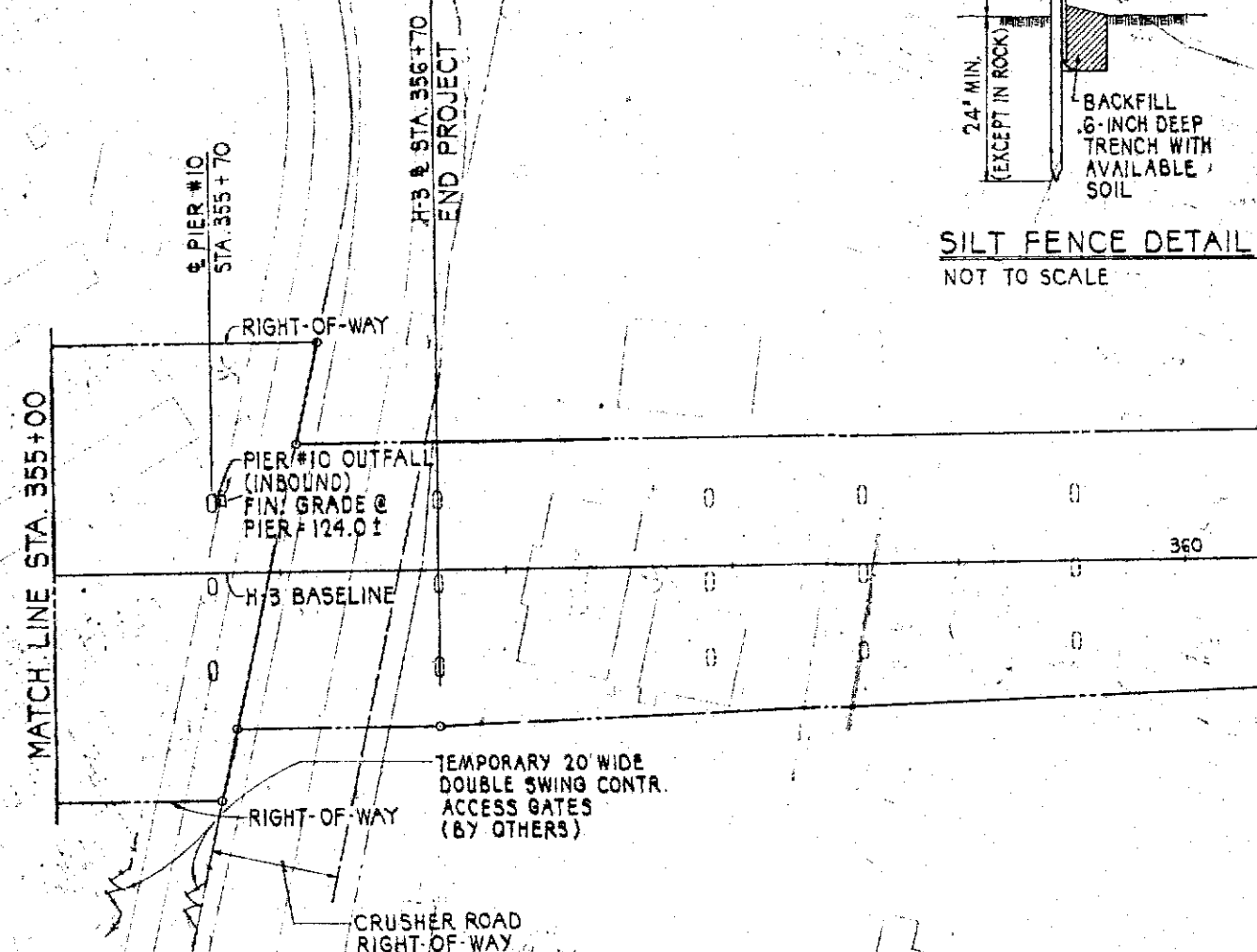
SCALE: 1" = 40' DATE: SEPT. 1988

SHEET No. 2 OF 3 SHEETS

ADD 21

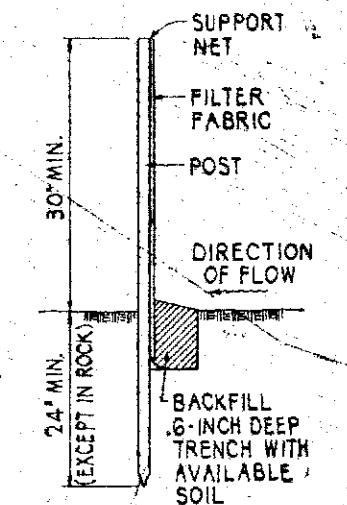
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1 (54)	1989	22	127

MAKAI SECTION MAUKA SECTION (N.I.C.)



GRADING NOTES

- ALL GRADING WORK SHALL BE DONE IN ACCORDANCE WITH CHAPTER 23, GRADING, SOIL EROSION AND SEDIMENT CONTROL OF THE REVISED ORDINANCES OF HONOLULU, 1978, AS AMENDED (ORDINANCE NO. 81-13).
- 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 ENGR. SHALL BE PAYABLE BY THE CONTRACTOR.
- 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.
- ALL SLOPES AND EXPOSED AREAS SHALL BE SODDED OR PLANTED AS SOON AS FINAL GRADES HAVE BEEN ESTABLISHED. PLANTING SHALL NOT BE DELAYED UNTIL ALL GRADING WORK HAS BEEN COMPLETED. GRADING TO FINAL GRADE SHALL BE CONTINUOUS, AND ANY AREA, WITHIN WHICH WORK HAS BEEN INTERRUPTED OR DELAYED SHALL BE PLANTED.
- FILLS ON SLOPES STEEPER THAN 5:1 SHALL BE KEYED.
- NO GRADING WORK SHALL BE DONE ON SATURDAYS, SUNDAYS AND HOLIDAYS AT ANY TIME WITHOUT PRIOR NOTICE TO THE CHIEF ENGINEER OR DISTRICT ENGINEER, STATE OF HAWAII.
- THE LIMITS OF THE AREA TO BE GRADED SHALL BE FLAGGED BEFORE THE COMMENCEMENT OF THE GRADING WORK.
- THE CITY SHALL BE INFORMED OF THE LOCATION OF THE BORROW/DISPOSAL SITE FOR THE PROJECT WHEN THE APPLICATION FOR A GRADING PERMIT IS MADE. THE BORROW/DISPOSAL SITE MUST ALSO FULFILL THE REQUIREMENTS OF THE GRADING ORDINANCE.
- ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF CHAPTER 54, WATER QUALITY STANDARDS AND CHAPTER 55, WATER POLLUTION CONTROL, OF TITLE II, ADMINISTRATIVE RULES OF THE STATE DEPARTMENT OF HEALTH.



SILT FENCE DETAIL
NOT TO SCALE

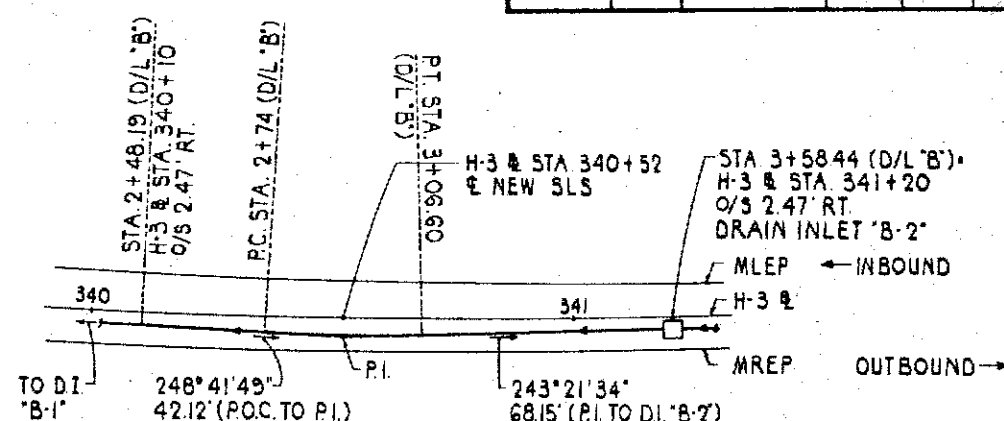
NOTES:

- FILTER FABRIC SHALL BE OF THE TYPE SPECIFIED & INSTALLED IN COMBINATION WITH A SUPPORT NET OF POLYESTER NETTING OR APPROVED EQUAL. THE FILTER FABRIC SHALL BE A MINIMUM OF 36 INCHES WIDE AND THE SUPPORT NET A MINIMUM OF 30 INCHES.
- IF SILT FENCE IS OBTAINED FROM MANUFACTURER AS A PACKAGE (I.E. FABRIC ATTACHED TO POSTS) THE MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE ADHERED TO.
- POSTS SHALL BE METAL * WHEREVER POSSIBLE, CROSS SECTION OF POST WILL BE SUBSTANTIAL ENOUGH TO SUPPORT A LOADED SILT FENCE WITHOUT BENDING. POST SPACING SHALL BE 4' TO 8', DEPENDING ON POST SIZE.

*SOME MANUFACTURER'S ONLY SUPPLY SILT FENCE WITH WOODEN POSTS. PRECAUTIONS SHALL BE TAKEN TO AVOID DAMAGE FROM DRIVING INTO HARD GROUND OR TERMITES. TO BE INSTALLED ALONG ENTIRE LOWER SIDE OF SITE AND ELSEWHERE AS DIRECTED.

CURVE DATA

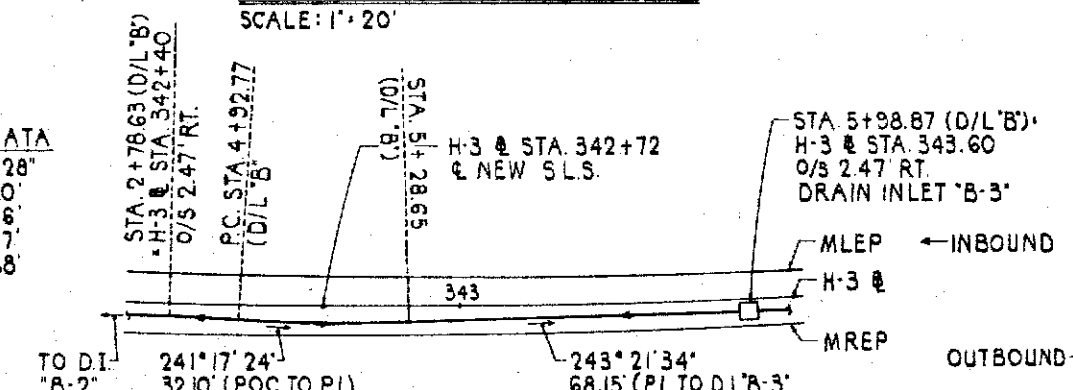
$\Delta = 5^{\circ}20'15''$
 $R = 350.00'$
 $T = 16.31'$
 $Ch = 32.59'$
 $Lc = 32.60'$



PLAN - DRAIN LINE CURVE
BETWEEN DI 'B-1' & DI 'B-2'
SCALE: 1" = 20'

CURVE DATA

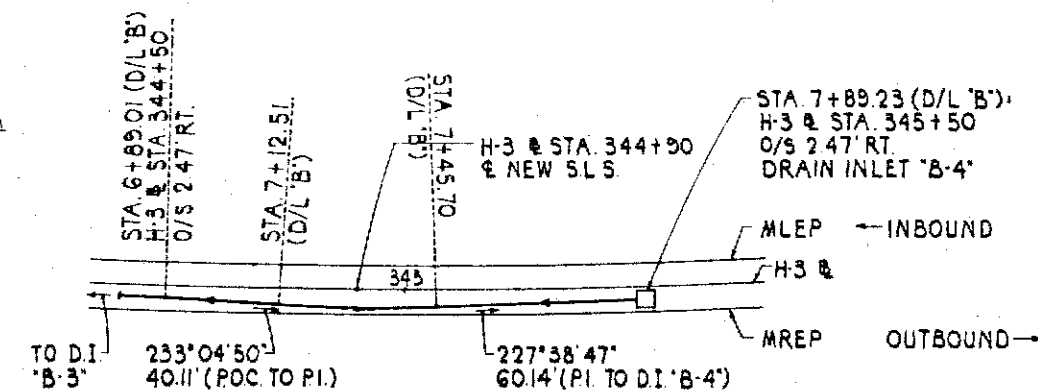
$\Delta = 5^{\circ}52'28''$
 $R = 350.00'$
 $T = 17.96'$
 $Ch = 35.87'$
 $Lc = 35.88'$



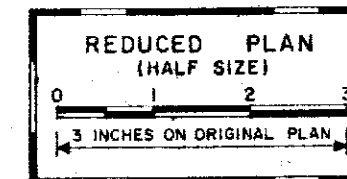
PLAN - DRAIN LINE CURVE
BETWEEN DI 'B-2' & DI 'B-3'
SCALE: 1" = 20'

CURVE DATA

$\Delta = 5^{\circ}26'03''$
 $R = 350.00'$
 $T = 16.61'$
 $Ch = 33.18'$
 $Lc = 33.19'$



PLAN - DRAIN LINE CURVE
BETWEEN DI 'B-3' & DI 'B-4'
SCALE: 1" = 20'



2/9/89	ADDED GRADING NOTES, SILT FENCE DETAIL & ACCESS GATES
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADING AND DRAINAGE PLAN

STA. 355+00 TO STA. 356+00

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

SCALE: 1" = 40' DATE: SEPT. 1988

SHEET NO. 3 OF 3 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	