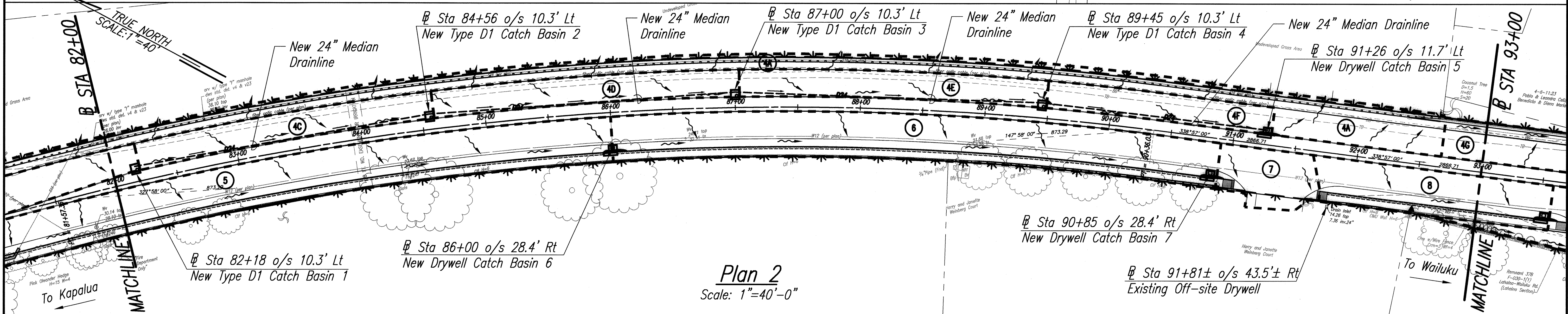
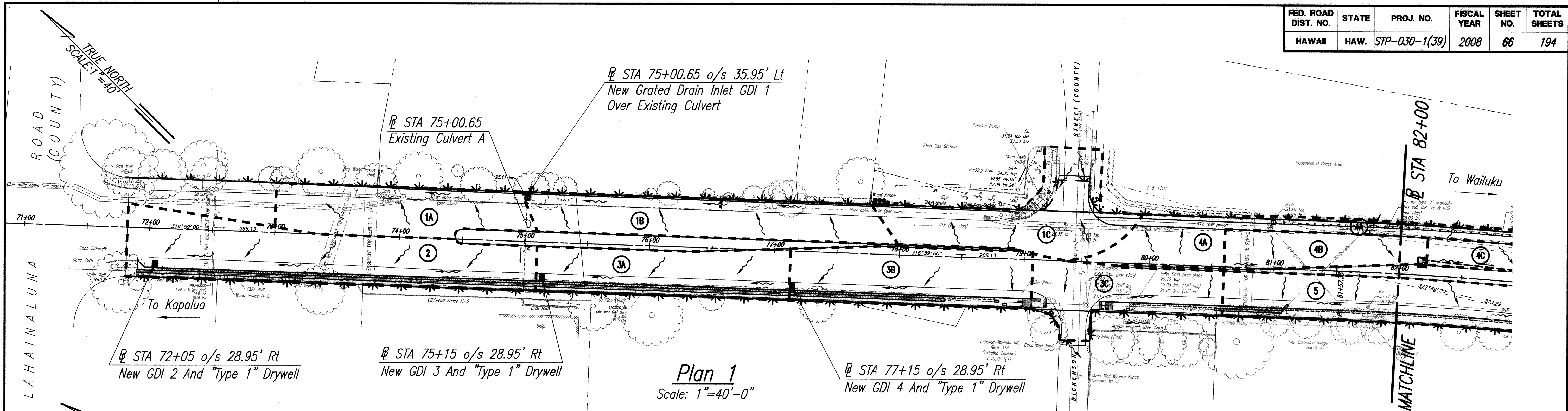




SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	

NOTES:

- DRAINAGE CALCULATIONS BASED ON THE STATE DOT-HWY DOCUMENT, "DESIGN CRITERIA FOR HIGHWAY DRAINAGE," DATED FEBRUARY 1, 2001 AND THE DEPARTMENT OF PUBLIC WORKS AND WASTE MANAGEMENT, COUNTY OF MAUI DOCUMENT, "RULES FOR THE DESIGN OF STORM DRAINAGE FACILITIES IN THE COUNTY OF MAUI," DATED NOVEMBER 12, 1995.
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- CULVERT QUANTITIES DETERMINED THROUGH THE USE OF THE RATIONAL METHOD (50-YEAR STORM).

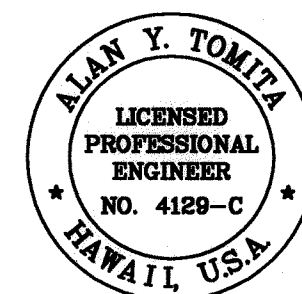
LEGEND:

- DRAINAGE AREA BOUNDARY
- ~ OVERLAND SURFACE FLOW
- DIRECTION OF PIPE FLOW
- ☐ NEW CATCH BASIN / DRYWELL
- ☐ NEW TYPE D1 CATCH BASIN
- ☐ NEW GRATED DRAIN INLET
- ☐ NEW GRATED DRAIN INLET / DRYWELL
- ①A FINISHED DRAINAGE AREA

Drainage Area	FIN1A	FIN1B	FIN1C	FIN2	FIN3A	FIN3B	FIN3C	FIN4A	FIN4B
Area (acres)	0.18	0.21	0.22	0.33	0.18	0.21	0.18	0.74	0.10
Flow (cfs)	0.70	1.01	1.03	1.29	0.71	0.82	0.66	2.28	0.40

Drainage Area	FIN4C	FIN4D	FIN4E	FIN4F	FIN4G	FIN5	FIN6	FIN7	FIN8
Area (acres)	0.12	0.12	0.12	0.09	0.15	0.45	0.41	0.08	0.16
Flow (cfs)	0.48	0.49	0.49	0.36	0.59	1.76	1.60	0.32	0.63

Graphic Scale:



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Alan Y. Tomita

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

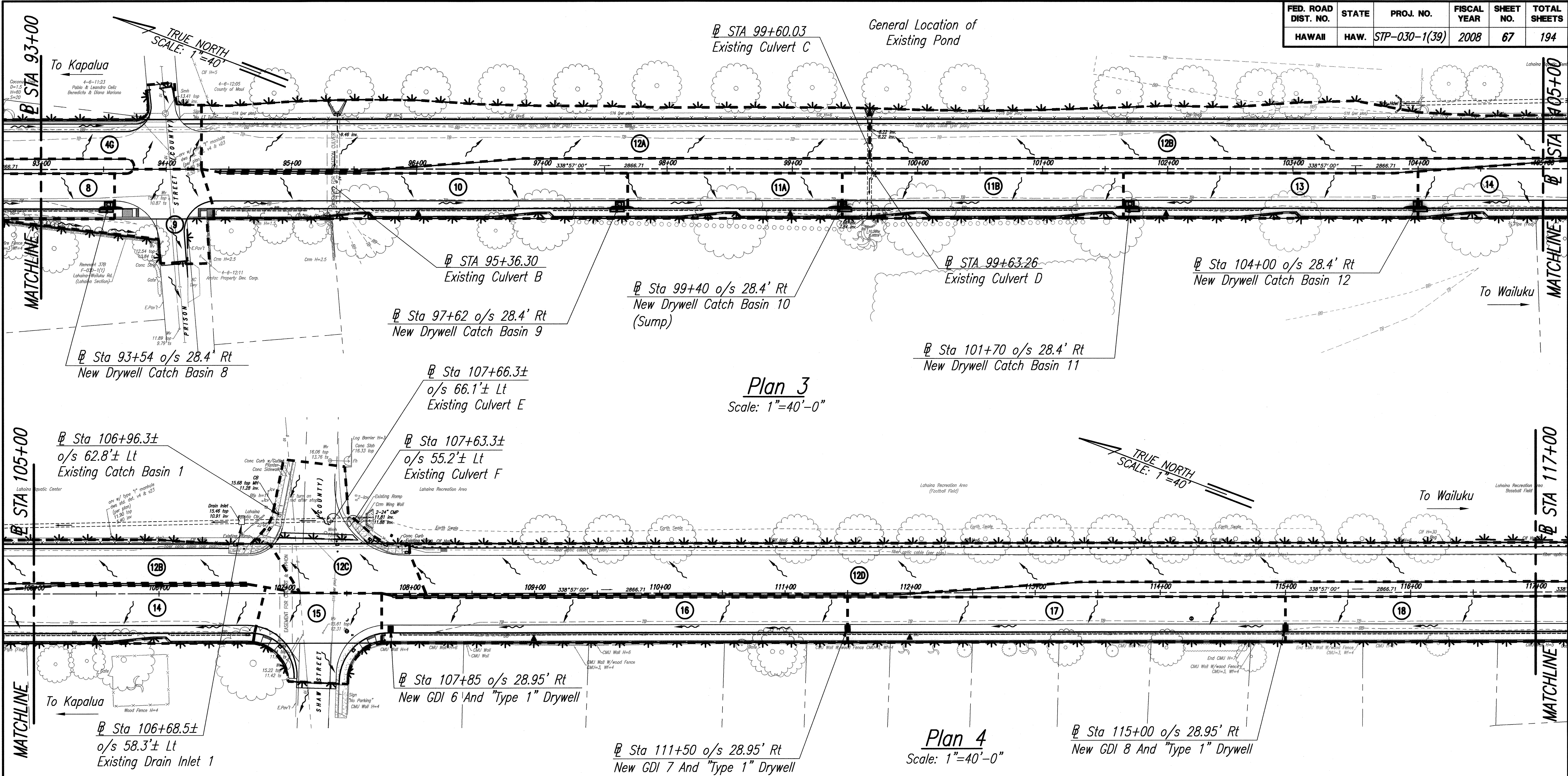
PROPOSED DRAINAGE PLANS - 1

Honoapiilani Highway Widening
Lahainaluna Road to Aholo Road
Project No. STP-030-1(39)

Scale: As Shown Date: October 2008

SHEET No. 1 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(39)	2008	67	194



NOTES:

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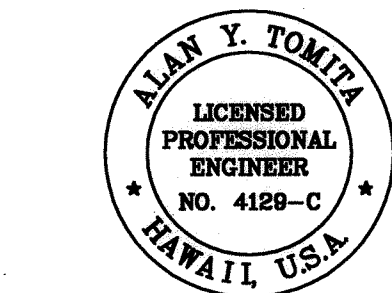
LEGEND:

- DRAINAGE AREA BOUNDARY
- ~> OVERLAND SURFACE FLOW
- DIRECTION OF PIPE FLOW
- ☐ NEW CATCH BASIN / DRYWELL
- ☐ NEW TYPE D1 CATCH BASIN
- ☐ NEW GRATED DRAIN INLET
- ☐ NEW GRATED DRAIN INLET / DRYWELL
- ①A FINISHED DRAINAGE AREA

Drainage Area	FIN9	FIN10	FIN11A	FIN11B	FIN12A	FIN12B	FIN12C
Area (acres)	0.13	0.29	0.15	0.19	0.58	0.66	0.20
Flow (cfs)	0.47	1.13	0.59	0.75	1.94	2.31	0.78

Drainage Area	FIN12D	FIN13	FIN14	FIN15	FIN16	FIN17	FIN18
Area (acres)	0.84	0.20	0.29	0.14	0.32	0.30	0.28
Flow (cfs)	3.94	0.78	1.13	0.55	1.25	1.17	1.10

Graphic Scale:



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HIGHWAYS DIVISION

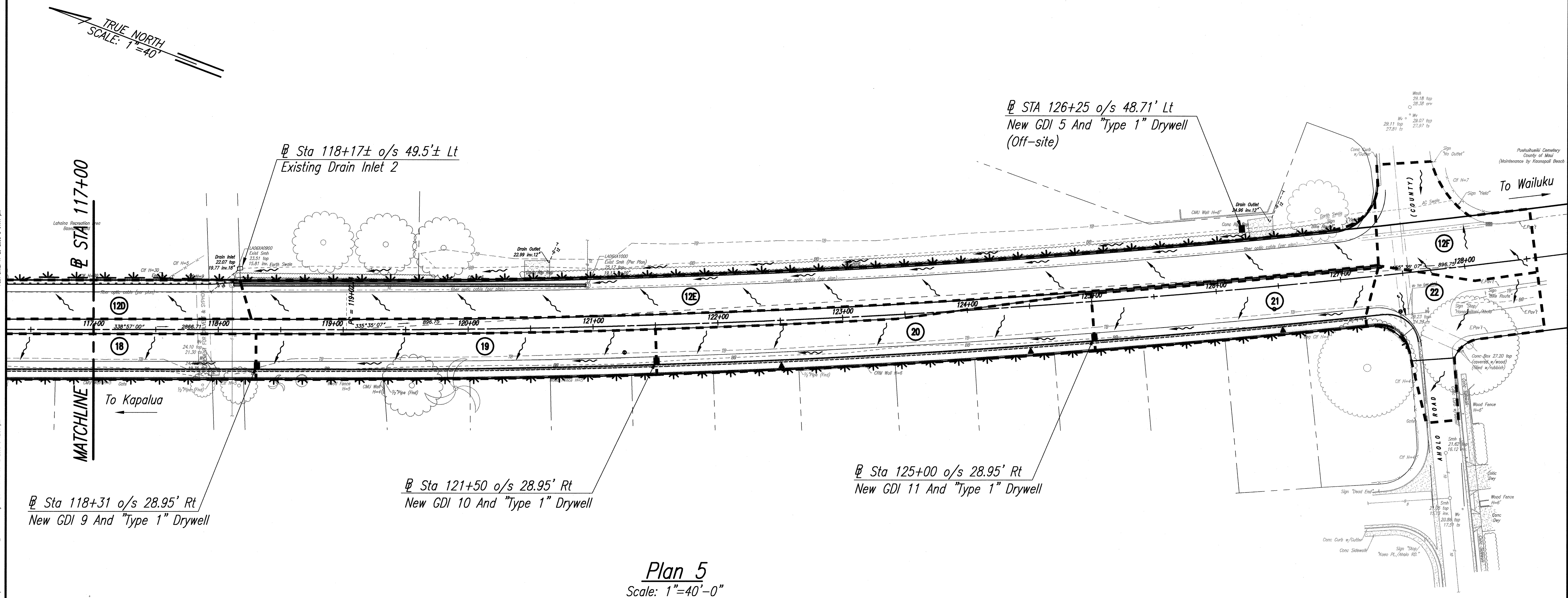
PROPOSED DRAINAGE PLANS - 2

Honoapiilani Highway Widening
Lahainaluna Road to Aholo Road
Project No. STP-030-1(39)

Scale: As Shown Date: October 2008

SHEET No. 2 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(39)	2008	68	194



Plan 5
Scale: 1"=40'-0"

NOTES:

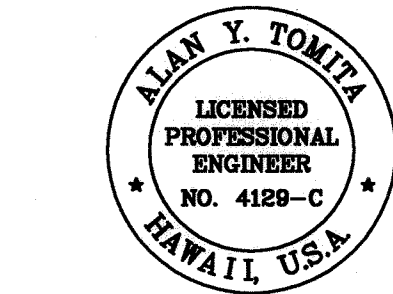
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LEGEND:

- DRAINAGE AREA BOUNDARY
- ~ OVERLAND SURFACE FLOW
- DIRECTION OF PIPE FLOW
- NEW CATCH BASIN / DRYWELL
- NEW TYPE D1 CATCH BASIN
- NEW GRATED DRAIN INLET
- NEW GRATED DRAIN INLET / DRYWELL
- 1A FINISHED DRAINAGE AREA

Drainage Area	FIN12E	FIN12F	FIN19	FIN20	FIN21	FIN22
Area (acres)	0.67	0.20	0.27	0.32	0.24	0.21
Flow (cfs)	2.49	0.78	1.06	1.25	0.94	0.82

Graphic Scale:



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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROPOSED DRAINAGE PLANS - 3

*Honoapiilani Highway Widening
Lahainaluna Road to Aholo Road
Project No. STP-030-1(39)*

Scale: As Shown Date: October 2008
SHEET No. 3 OF 3 SHEETS