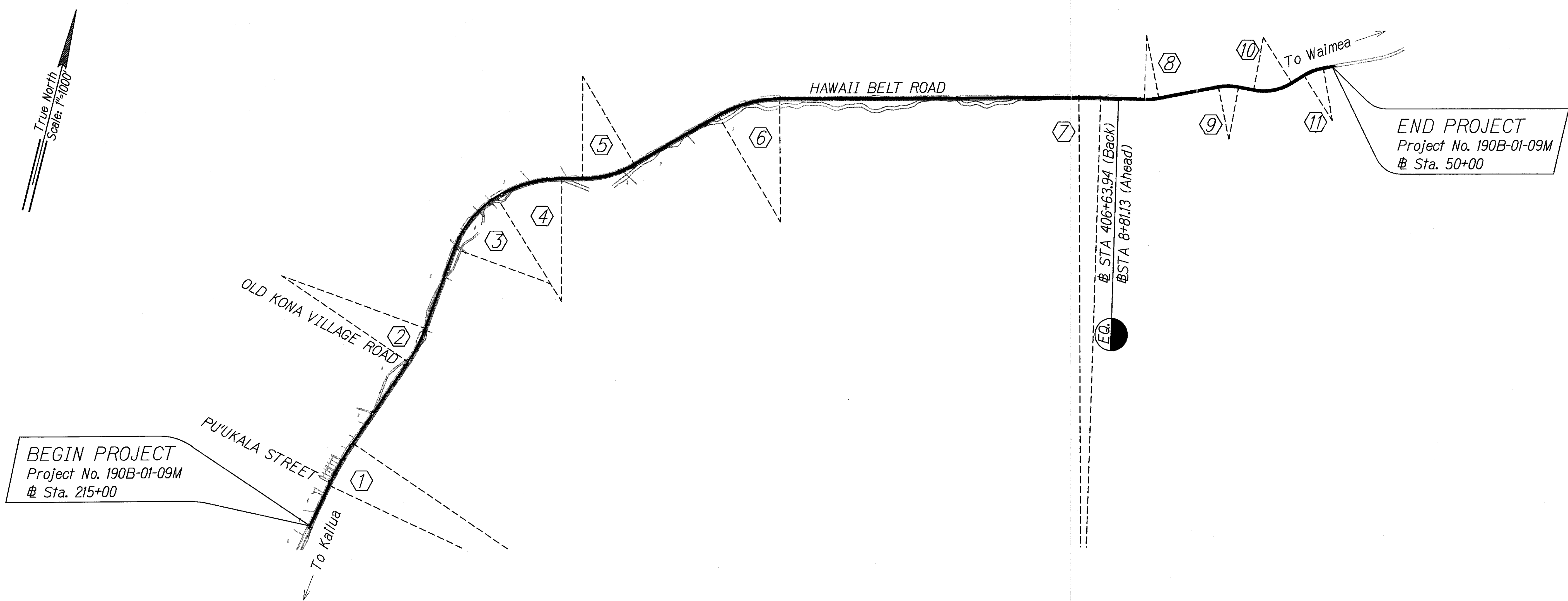


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	190B-01-09M	2010	21	54

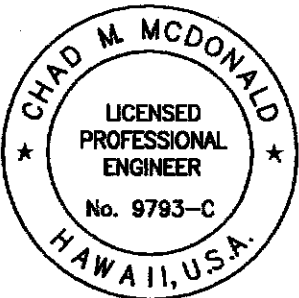
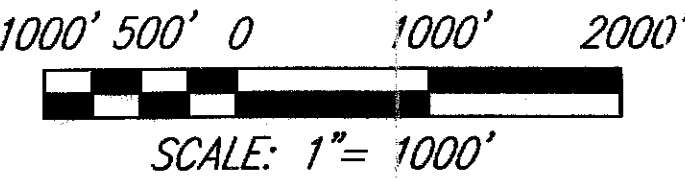


CURVE DATA											
Curve	1	2	3	4	5	6	7	8	9	10	11
Δ	9°00'00"	14°07'00"	38°00'00"	32°03'00"	30°30'00"	30°10'00"	2°02'00"	12°59'00"	21°44'00"	42°44'00"	22°27'00"
$\Delta/2$	4°30'00"	7°03'30"	19°00'00"	16°01'30"	15°15'00"	15°05'00"	1°01'00"	6°29'30"	10°52'00"	21°22'00"	11°13'30"
R	5,729.58	2,864.79	1,909.86	2,291.83	1,909.86	2,291.83	11,459.16	1,194.10	997.60	999.40	1,000.50
T	450.93	354.71	657.62	658.25	520.69	617.67	203.35	135.88	191.51	390.99	198.55
C	899.08	704.05	1,243.58	1,265.35	1,004.71	1,192.78	406.64	270.01	376.14	728.23	389.52
Lc	900.00	705.83	1,266.67	1,282.00	1,016.67	1,206.67	406.67	270.59	378.41	745.39	392.02
SE	.015	0.05	0.07	0.06	0.07	0.06	0.015		0.07	0.04	0.05

Survey Notes:

- Survey conducted from January 25 to February 5, 2010.
- Underground utilities shown are for information only. No guarantee is made on the accuracy or completeness of said information.
- Origin of Horizontal Controls taken from existing monuments found on the ground, origin of Vertical Controls taken from a construction plan entitled "Hawaii Belt Road Resurfacing. Honokohau to Kaupulehu. Project No. 190B-01-91M."

GRAPHIC SCALE:



This work was prepared by me or under my supervision

4/30/2012
MITSUNAGA & ASSOCIATES, INC. EXP. DATE
NOTE: Contractor to check and verify dimensions at job before proceeding with work.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GENERAL PLAN
MAMALAHOA HIGHWAY RESURFACING
Kaupulehu to Makalei Road
Project No. 190B-01-09M
Scale: As Noted Date: May 2010
SHEET No. **C-19** OF **54** SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	4/30/2012
No.	DESIGNED BY	
	CHECKED BY	