

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H2-1(33)	2007	140	168

GENERAL CONSTRUCTION NOTES

- A. All work shall be done in accordance with the "Hawaii Standard Specifications For Road, Bridge, and Public Works Construction", 1994, State of Hawaii Department of Transportation, Highways Division, except as modified herein or in the Special Provisions.
- B. The Contractor shall verify with the respective utility companies and Government agencies the locations of all electric, telephone, roadway light, water, sewer, drain and other lines crossing the excavation path or in excavation areas.
- C. The Contractor shall notify all affected utility companies and Government agencies of their intent to begin construction on any intersection or street at least two (2) weeks prior to the start of such construction.
- D. The Contractor shall notify the Traffic Signal & Technology, Department & Transportation Services, three (3) working days prior to commencing work on the traffic signal system (Phone: 523-4589).
- E. The traffic signal system shall be kept operational during construction. Any relocation required shall be approved by the Traffic Signal & Technology, Department of Transportation Services, and paid for by the Contractor.
- F. The Contractor shall provide microwave detector system for all existing signalized intersections where existing loop detector system will be out of service for more the one (1) week.
- G. Trenching to be by hand digging near and across existing utility lines.
- H. Unless otherwise requested by the Board of Water Supply, minimum clearance between water lines and conduits shall be:
Horizontal = 3 feet
Vertical = 6 inches
- I. Adjust new conduit alignment, if required to provide clearances. If conduit cannot be realigned, adjustments to existing water system shall be performed in accordance with standards of the Board of Water Supply.
- J. Underground utilities shown hereon are for information only. No guarantee is made on the accuracy or completeness of said information.
- K. Where necessary, reconstruction of sidewalk, gutter and driveway areas shall conform to the standard details of the governmental agency having jurisdiction over the work.
- L. The Contractor shall be responsible for removal of all silt and debris resulting from his work and deposited in drainage facilities, roadways and other areas. The cost for any necessary remedial action by the Chief Engineer shall be payable by the Contractor.
- M. The Contractor, at his own expense, shall keep the project 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.

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	HPS ROADWAY LIGHT. SEE DETAILS ON SHEET E-11.		TYPE "A" METRIC TRAFFIC SIGNAL PULLBOX (APPROX. 22" X 28"), SEE DETAIL A/E-7.
			TYPE "C" METRIC TRAFFIC SIGNAL PULLBOX (APPROX. 28" X 57"), SEE DETAIL B/E-7.
	TRAFFIC SIGNAL HEAD RYG, PROVIDE NECESSARY MOUNTING BRACKETS AND ACCESSORIES		TYPE "A" METRIC ROADWAY LIGHTING PULLBOX (APPROX. 22" X 28"), SEE DETAIL A/E-7.
	TRAFFIC SIGNAL HEAD RYG, PROVIDE NECESSARY MOUNTING BRACKETS AND ACCESSORIES		
	TYPE 1 TRAFFIC SIGNAL STANDARD, SEE PLAN FOR HEIGHT, SEE DETAIL A/E-9.		ROADWAY LIGHTING CONDUIT & WIRING
	OPTICON DETECTOR, PROVIDE NECESSARY MOUNTING BRACKET AND ACCESSORIES, SEE DETAIL C/E-10		ROADWAY LIGHTING CONDUIT & WIRING. SAWCUT AND PATCH EXST. AC PAVEMENT, AC BERM AND CONCRETE SWALE
	TYPE II TRAFFIC SIGNAL STANDARD, WITH TRAFFIC SIGNAL HEADS AND NECESSARY MOUNTING BRACKETS AND ACCESSORIES (WITH 30' MAST ARM INDICATED), SEE DETAIL B/E-9.		TRAFFIC SIGNAL CONDUIT & WIRING
			TRAFFIC SIGNAL CONDUIT & WIRING. SAWCUT AND PATCH EXST. AC PAVEMENT, AC BERM AND CONCRETE SWALE
			ELECTRIC CONDUIT
			BREAK LINE TO BEGIN AND END DUCT SECTION TYPE
			ELECTRIC/SIGNAL DUCTLINE WITH DESIGNATORS; INDICATES TYPE 'A' DUCT SECTION WITH '1-4" ELECTRIC DUCT. E=ELECTRIC, SL=STREET LIGHT, TS=TRAFFIC SIGNAL.

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

LAST NAME, FIRST NAME, MIDDLE INITIAL, LAST NAME, FIRST NAME, MIDDLE INITIAL, LAST NAME, FIRST NAME, MIDDLE INITIAL

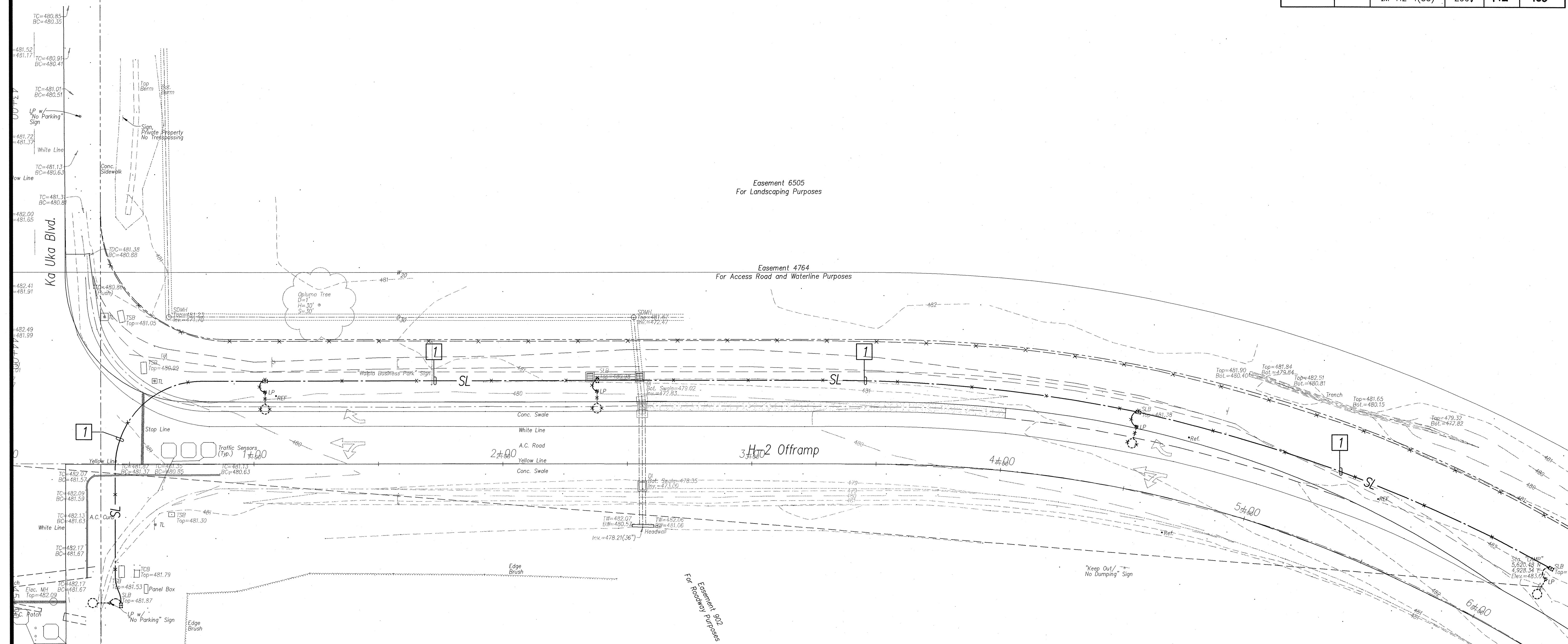


SIGNATURE: *Sean K. Suga* 9/11/06
APRIL 30, 2008
EXPIRATION DATE OF LICENSE
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ELECTRICAL SYMBOLS, GENERAL NOTES
WAIPIO INTERCHANGE, RAMP WG-3
INTERSTATE ROUTE H-2 REHABILITATION
Waipio Interchange and Mililani Interchange
On/Off Ramps, Ka Uka Boulevard and
Meheula Parkway Overpasses & Kipapa Stream Bridge
Federal Aid Project No. IM-H2-1(33)
DATE: November 2006

Owner: Castle & Cooke Homes Hawaii, Inc.

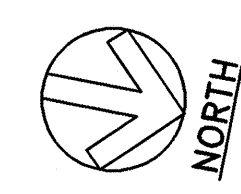
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H2-1(33)	2007	142	168



- NOTES:
1. All items shown are existing unless otherwise noted.
 2. "X" thru item denotes "Existing item to be removed".
 3. Street lighting system shall remain in operation during construction. The New Street Light Standards Shall Be Installed and Operational Prior to the Removal of the Existing Standards.
 4. [1] Remove conductors and abandon conduit.

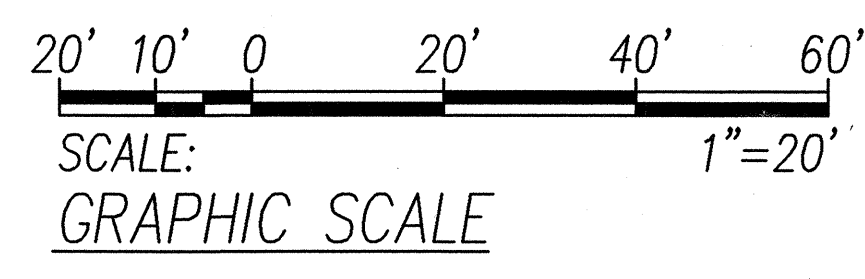
DATE	____
SURVEY PLOTTED BY	____
DESIGNED BY	____
TRACED BY	____
QUANTITIES BY	____
CHECKED BY	____
NO.	____

LAST DATE OF REVISION: 9/11/06
BY: [Signature]
REASON: [Signature]



OFF-RAMP ELECTRICAL DEMOLITION PLAN

SCALE: 1"=20'



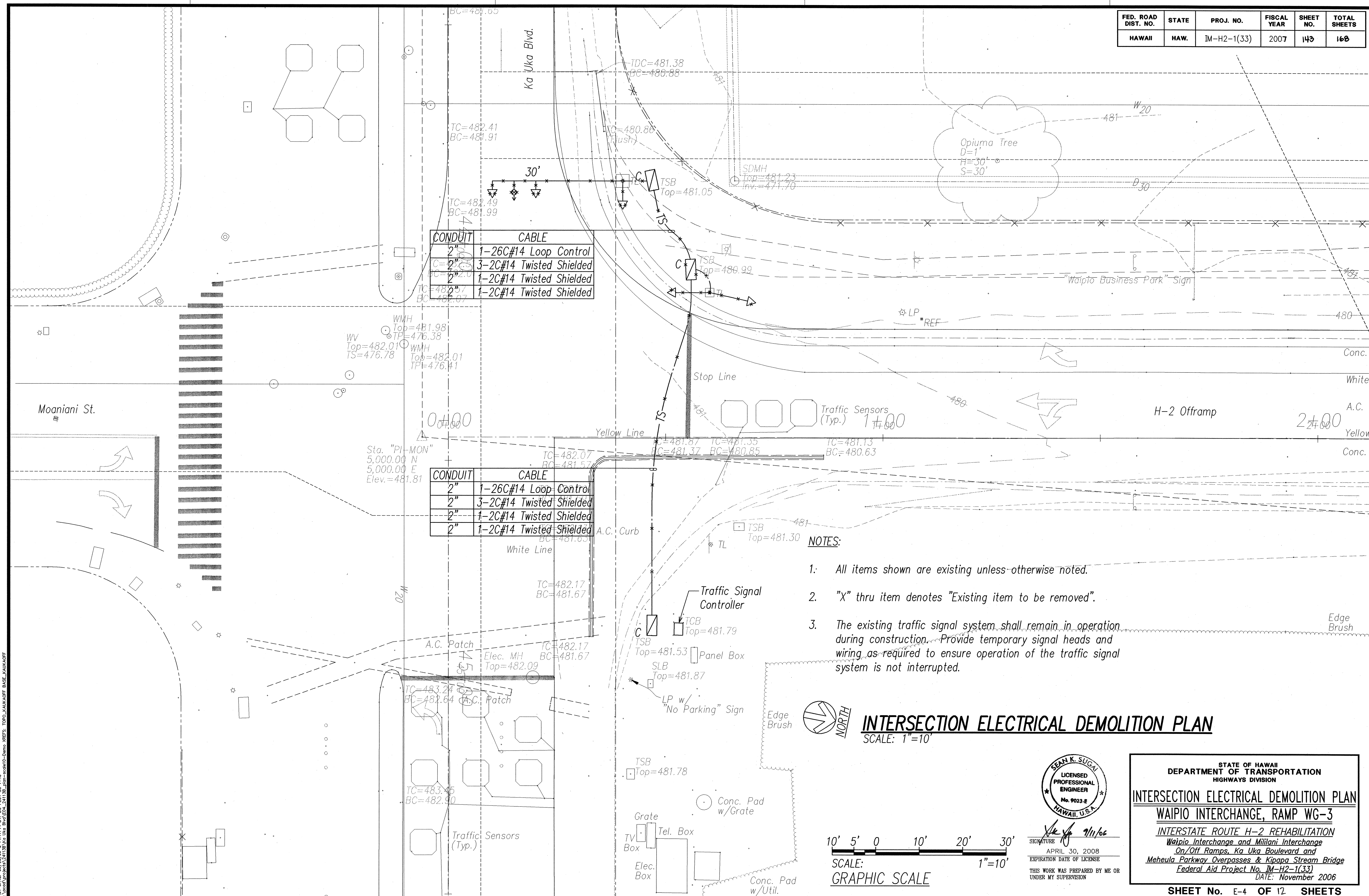
SEAN K. SUGAL
LICENSED PROFESSIONAL ENGINEER
No. 9023-E
HAWAII, U.S.A.
9/11/06
APRIL 30, 2008
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

OFF-RAMP ELECTRICAL DEMOLITION PLAN
WAIPIO INTERCHANGE, RAMP WG-3
INTERSTATE ROUTE H-2 REHABILITATION
Waipio Interchange and Mililani Interchange
On/Off Ramps, Ka Uka Boulevard and
Meheula Parkway Overpasses & Kipapa Stream Bridge
Federal Aid Project No. IM-H2-1(33)
DATE: November 2006

SHEET No. E-3 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H2-1(33)	2007	143	168



ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
NOTE BOOK	DRAWN BY _____	" _____
	TRACED BY _____	" _____
	DESIGNED BY _____	" _____
	QUANTITIES BY _____	" _____
No. _____	CHECKED BY _____	" _____

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 Y:\acad\projects\241138\Ka Uka Blvd\E04_241138_plan-scale10-Demo XREFS: TPO0_KAUKAOFF BASE_KAUKAOFF

INTERSECTION ELECTRICAL DEMOLITION PLAN
SCALE: 1"=10'



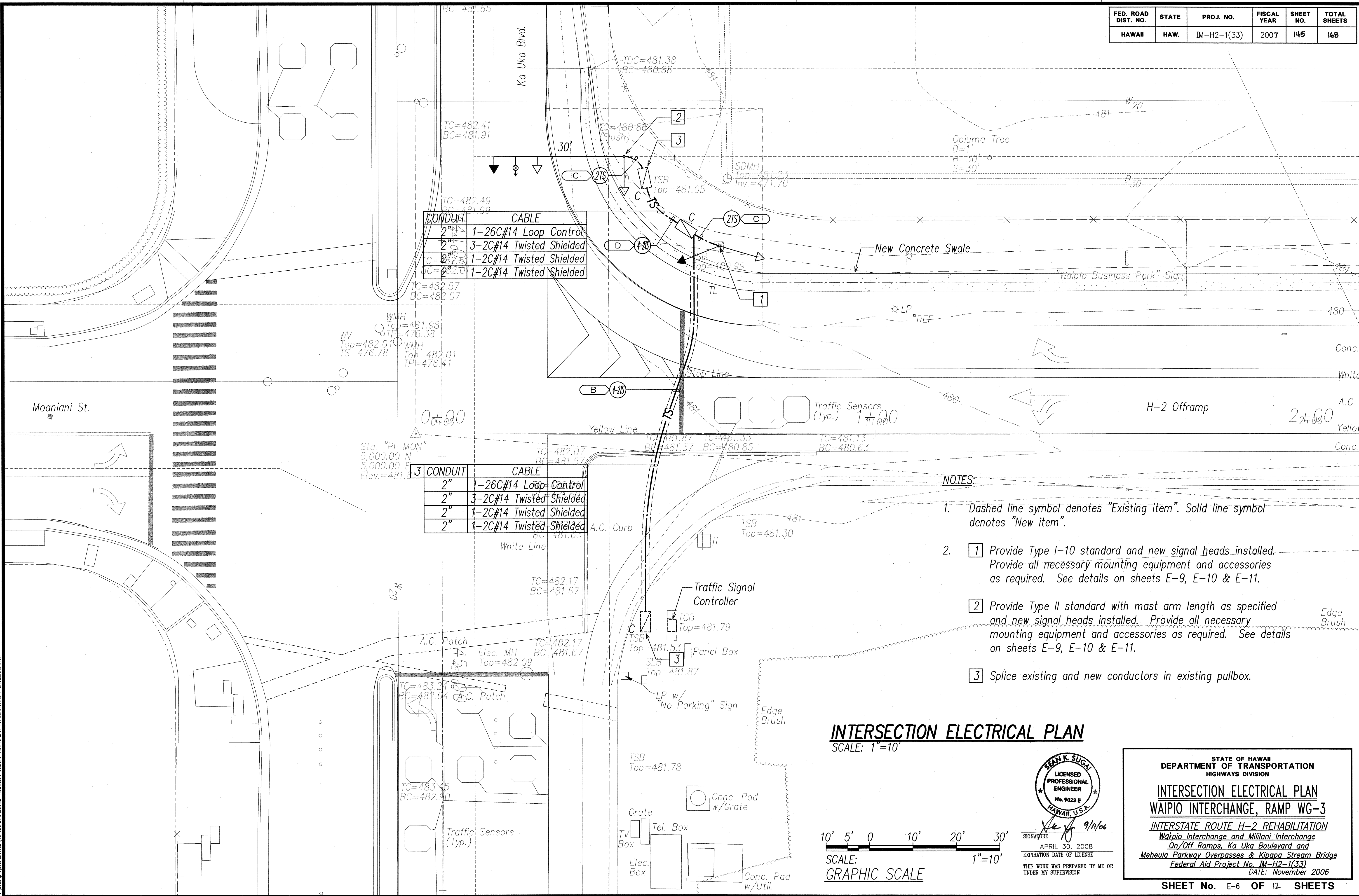
SIGNATURE *[Signature]* 7/11/06
APRIL 30, 2008
EXPIRATION DATE OF LICENSE
THIS WORK WAS PREPARED BY ME OR
UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

INTERSECTION ELECTRICAL DEMOLITION PLAN
WAIPIO INTERCHANGE, RAMP WG-3
INTERSTATE ROUTE H-2 REHABILITATION
Waipio Interchange and Milliani Interchange
On/Off Ramps, Ka Uka Boulevard and
Meheula Parkway Overpasses & Kipapa Stream Bridge
Federal Aid Project No. IM-H2-1(33)
DATE: November 2006

SHEET No. E-4 OF 12 SHEETS

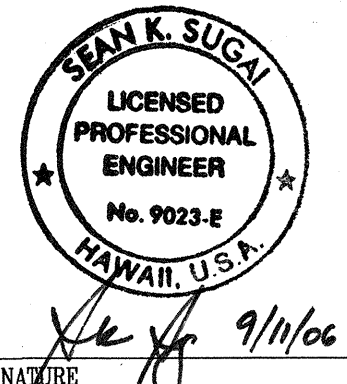
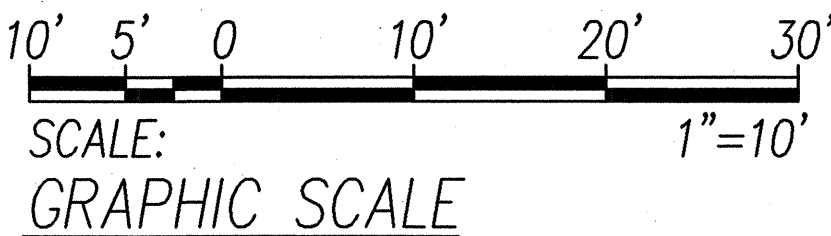
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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DATE	_____
SURVEY PLOTTED BY	_____
ORIGINAL PLAN	_____
DESIGNED BY	_____
TRACED BY	_____
NOTE BOOK	_____
QUANTITIES BY	_____
CHECKED BY	_____
No.	_____

LAST SAVE: 09/06/07 09:14:19 BY: B0107 SC 1410
 PROJECT: IM-H2-1(33) Waipio Interchange and Milliani Interchange On/Off Ramps, Ka Uka Boulevard and Meheula Parkway Overpasses & Kipapa Stream Bridge
 FEDERAL AID PROJECT NO. IM-H2-1(33) DATE: November 2006

INTERSECTION ELECTRICAL PLAN SCALE: 1"=10'



SIGNATURE: *[Signature]*
 APRIL 30, 2008
 EXPIRATION DATE OF LICENSE
 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

INTERSECTION ELECTRICAL PLAN
WAIPIO INTERCHANGE, RAMP WG-3

INTERSTATE ROUTE H-2 REHABILITATION
 Waipio Interchange and Milliani Interchange
 On/Off Ramps, Ka Uka Boulevard and
 Meheula Parkway Overpasses & Kipapa Stream Bridge
 Federal Aid Project No. IM-H2-1(33)
 DATE: November 2006

SHEET No. E-6 OF 12 SHEETS