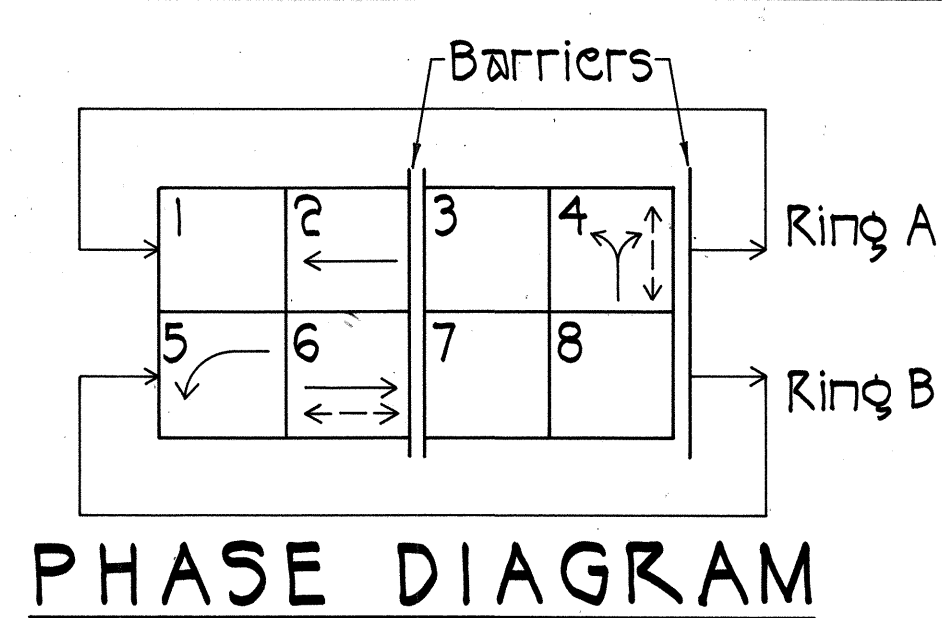


TRAFFIC SIGNAL STANDARD SCHEDULE

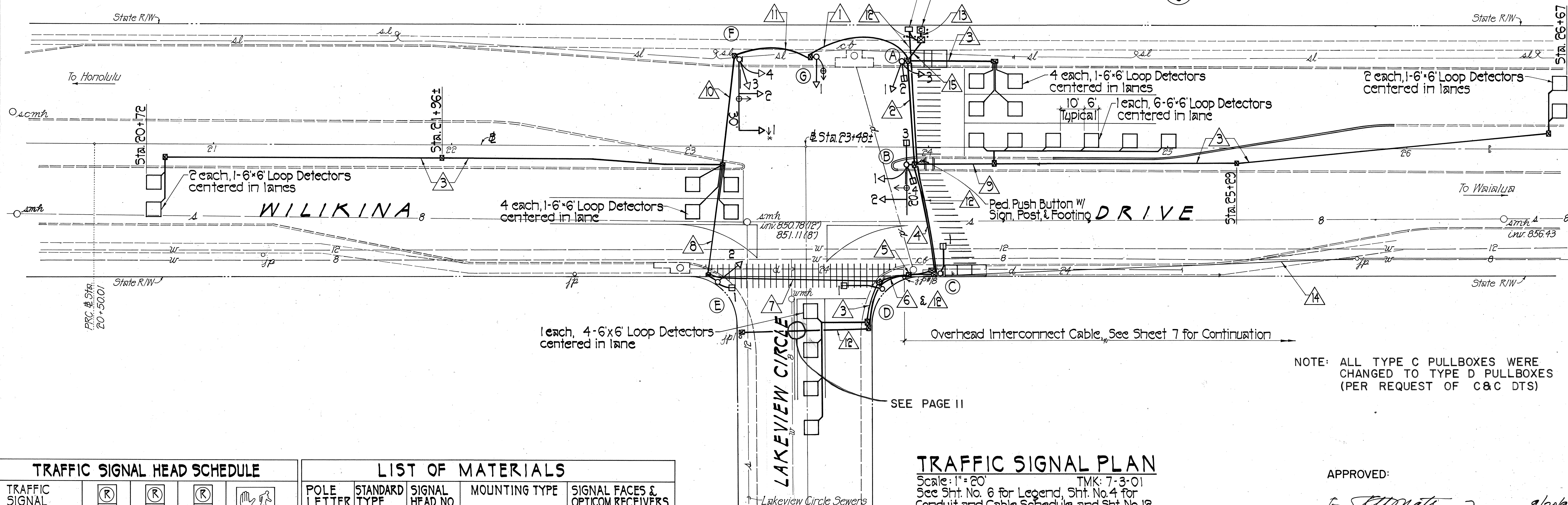
POLE LETTER	DESCRIPTION
(A)(C)(D)(E) (G)	Install Type I Traffic Signal Standard W/Signal and Pedestrian Heads
(B)(F)	Install Type II Traffic Signal Standard W/Signal and Pedestrian Heads



PHASE ASSIGNMENTS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-099-1(17)	1997	5	13

TRUE NORTH
Scale: 1" = 20'



NOTE: ALL TYPE C PULLBOXES WERE CHANGED TO TYPE D PULLBOXES (PER REQUEST OF C&C DTS)

SEE PAGE 11

TRAFFIC SIGNAL HEAD SCHEDULE

TRAFFIC SIGNAL HEAD TYPE AND DESCRIPTION	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	PEDESTRIAN SIGNAL HEAD
POLE LETTER AND SIGNAL HEAD NUMBER	A-1 F-3 G-1	A-3 B-1 & 2 (BP) F-2 (BP) F-4	E-2 *F-1	A-2 B-3 & 4 C-1 D-1 E-1

BP = Back Plate
* = Programmable Visibility
All Red Signal Indications shall be LED Lamp.

LIST OF MATERIALS

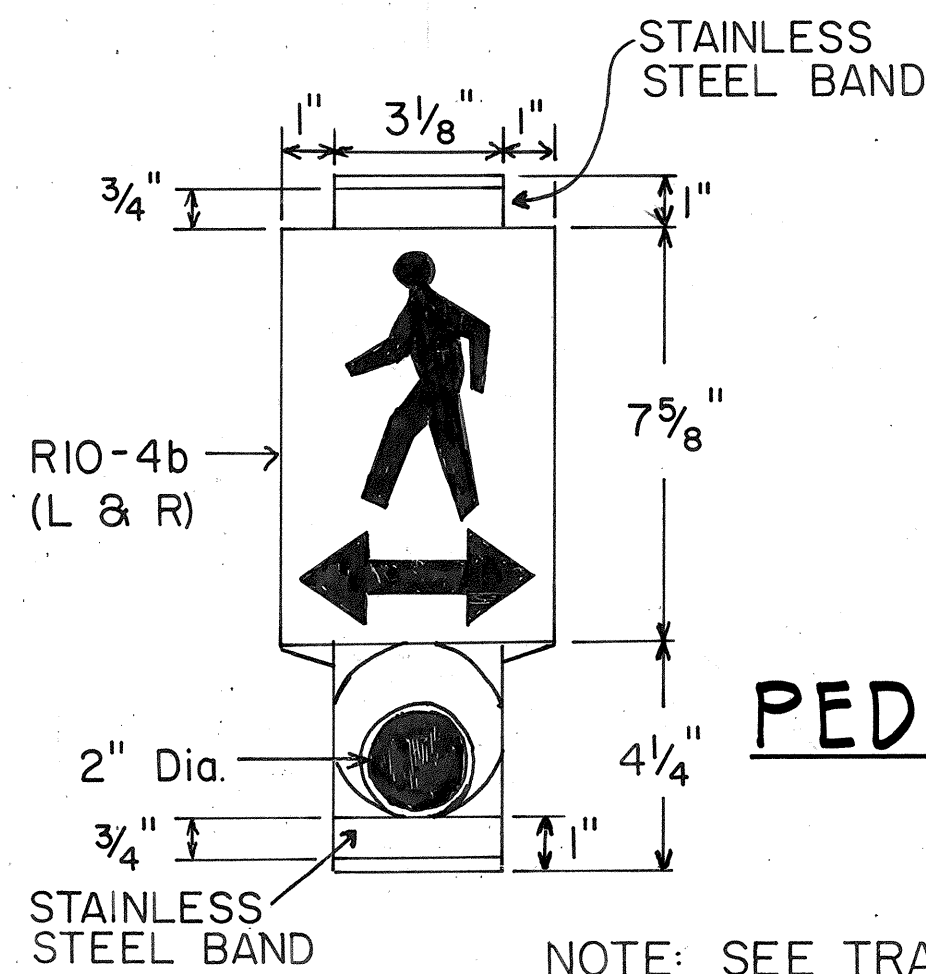
POLE LETTER	STANDARD TYPE	SIGNAL HEAD NO.	MOUNTING TYPE	SIGNAL FACES & OPTICOM RECEIVERS
A	I-10	1 & 3 2	Slipfitter, Two-Way Cantilever, One-Way	RYG, RY↑ H-M
B	II-20	1 2 3 & 4	Pole Bracket, One-Way Mast Arm, One-Way Pole Bracket, Two-Way Mast Arm (Hor.)	RY↑ RY↑ H-M Opticom
C	I-8	1	Slipfitter, One-Way	H-M
D	I-8	1	Slipfitter, One-Way	H-M
E	I-10	1 2	Cantilever, One-Way Slipfitter, One-Way	H-M RY←
F	II-30	1 2 3 & 4	Mast Arm, One-Way Mast Arm, One-Way Mast Arm (Hor.) Pole Bracket, Two-Way	RY←* RY↑ Opticom RYG, RY↑
G	I-10	1	Slipfitter, One-Way TPIW-EVP, One-Way	RY← Opticom

TRAFFIC SIGNAL PLAN

Scale: 1" = 20' TMK: 7-3-01
See Sht. No. 6 for Legend, Sht. No. 4 for Conduit and Cable Schedule and Sht. No. 12 for Types of Cables.

APPROVED:

[Signature] 9/20/96
CHIEF, PLANNING & ENGINEERING DIVISION, B.W.S.
[Signature] 9/16/96
CHIEF, DIVISION OF PLANNING & SERVICE CONTROL, D.W.M.
(FOR ANSWER WORK WITHIN PUBLIC R/W ONLY)

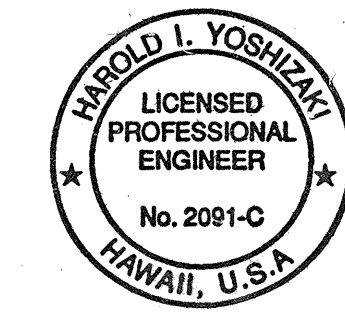


PEDESTRIAN PUSH BUTTON W/ SIGN

NOTE: SEE TRAFFIC SIGNAL PLAN FOR PEDESTRIAN WALK ARROW



- THE COLOR SCHEME SHALL BE:
WHITE: MAN, ARROW & PUSHBUTTON
BLACK: BACKGROUND
- (A) ← R10-4B (L)
 - (B) ← R10-4B (L & R)
 - (C) → R10-4B (R)
 - (D) → R10-4B (R)
 - (E) ← R10-4B (L)



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Harold I. Yoshizaki
SHIMABURU, ENDO & YOSHIKAWA, INC.
1126 12th Avenue
Honolulu, Hawaii 96816

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNAL PLAN

WILIKINA DRIVE
TRAFFIC SIGNALS AT LAKEVIEW CIRCLE
FED. AID PROJECT NO. STP-099-1(17)
SCALE: AS SHOWN DATE: JAN. 1997

SHEET NO. 1 OF 3 SHEETS

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

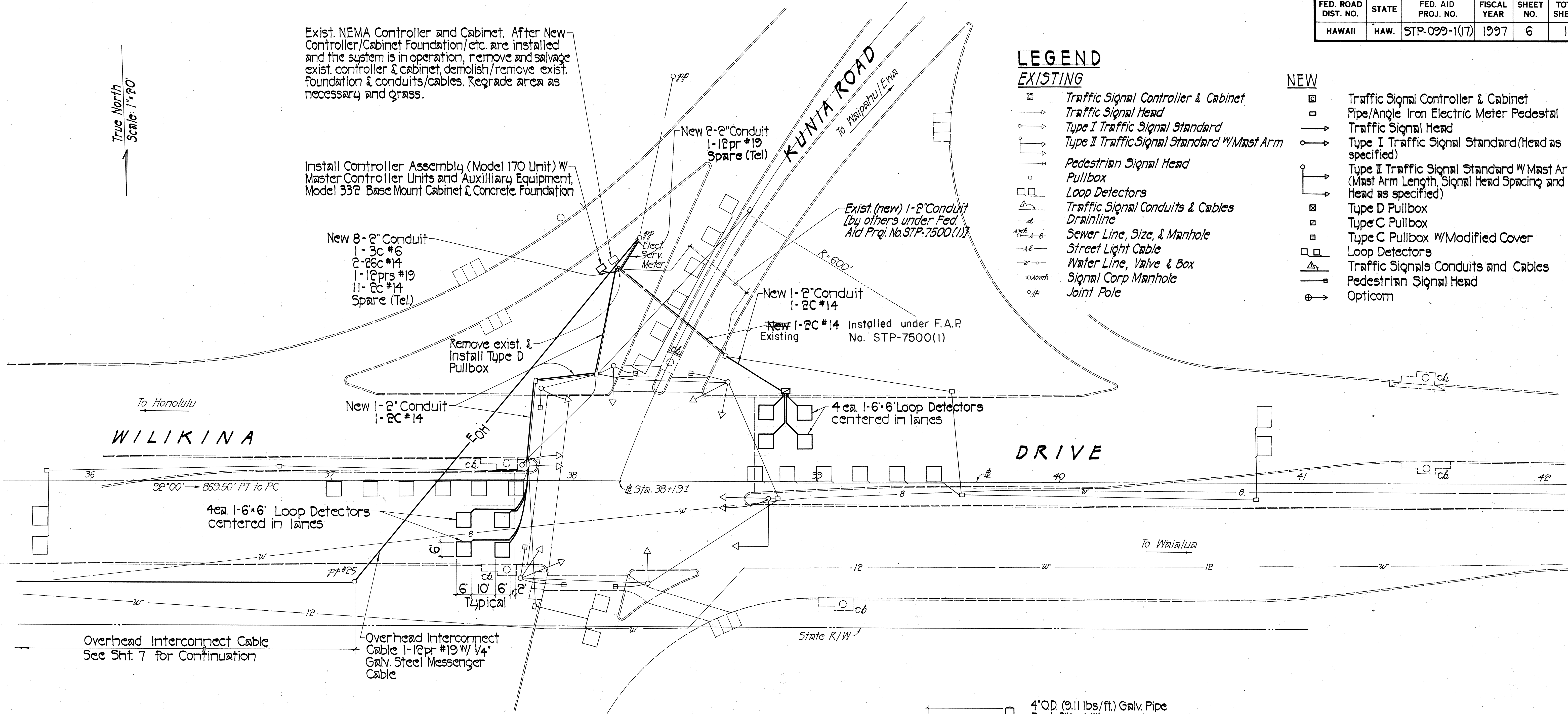
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-099-1(17)	1997	6	13

LEGEND EXISTING

- Traffic Signal Controller & Cabinet
- Traffic Signal Head
- Type I Traffic Signal Standard
- Type II Traffic Signal Standard w/Mast Arm
- Pedestrian Signal Head
- Pullbox
- Loop Detectors
- Traffic Signal Conduits & Cables
- Drainline
- Sewer Line, Size, & Manhole
- Street Light Cable
- Water Line, Valve & Box
- Signal Corp Manhole
- Joint Pole

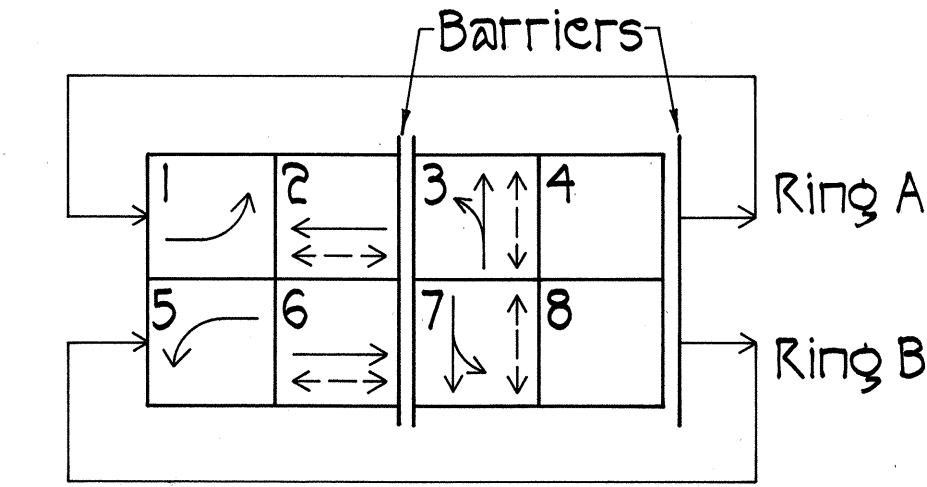
NEW

- Traffic Signal Controller & Cabinet
- Pipe/Angle Iron Electric Meter Pedestal
- Traffic Signal Head
- Type I Traffic Signal Standard (Head as specified)
- Type II Traffic Signal Standard w/Mast Arm (Mast Arm Length, Signal Head Spacing and Head as specified)
- Type D Pullbox
- Type C Pullbox
- Type C Pullbox w/Modified Cover
- Loop Detectors
- Traffic Signals Conduits and Cables
- Pedestrian Signal Head
- Opticom

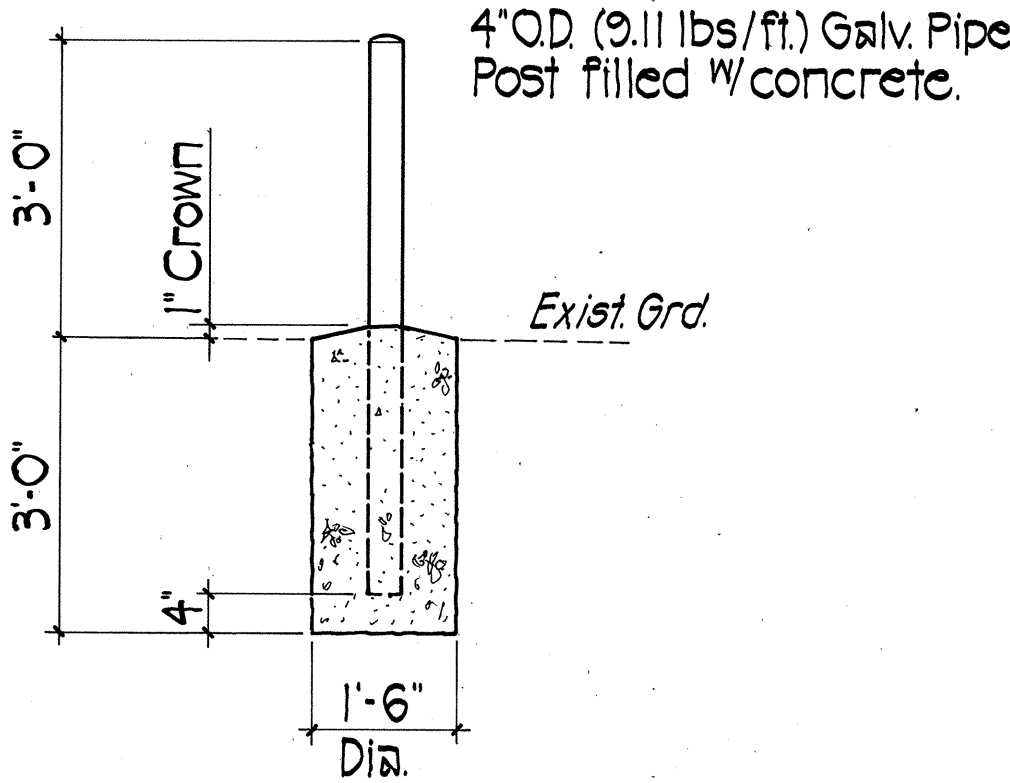


PLAN ~ WILIKINA DRIVE, TRAFFIC SIGNAL MODERNIZATION @ KUNIA ROAD

Scale: 1" = 20'



PHASE DIAGRAM



PIPE POST A
Not to Scale 6



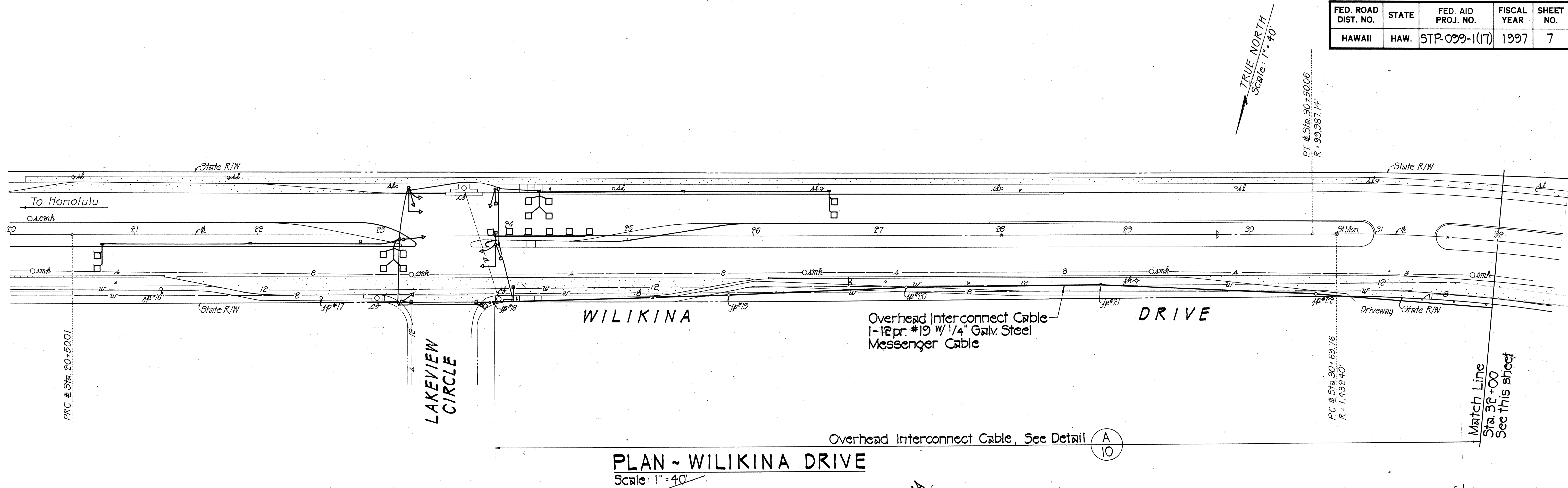
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UNDER MY SUPERVISION
Harold I. Yoshizaki
SHIMABUKURO, DIBO & YOSHIZAKI, INC.
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

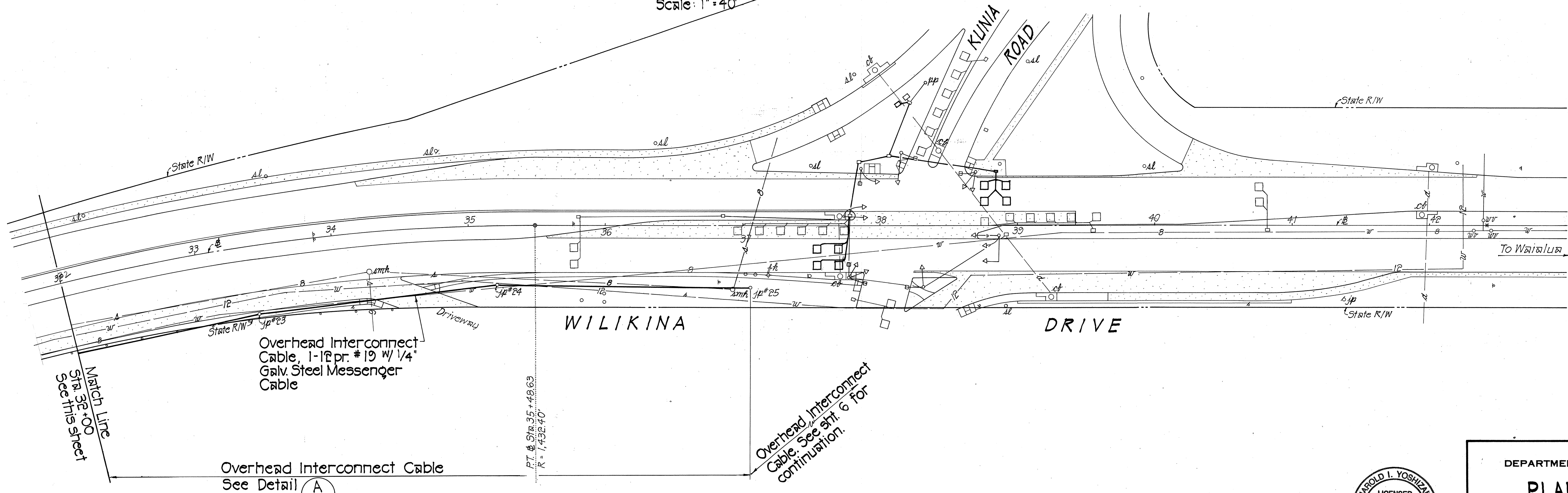
WILIKINA DRIVE TRAFFIC SIGNAL
MODERNIZATION @ KUNIA ROAD
WILIKINA DRIVE
TRAFFIC SIGNALS AT LAKEVIEW CIRCLE
FED. AID PROJECT NO. STP-099-1(17)
SCALE: AS SHOWN DATE: JAN. 1997
SHEET NO. 2 OF 3 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-099-1(17)	1997	7	13

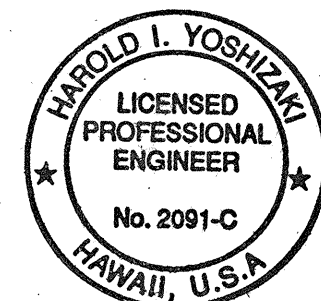


PLAN ~ WILIKINA DRIVE
Scale: 1" = 40'



PLAN ~ WILIKINA DRIVE
Scale: 1" = 40'

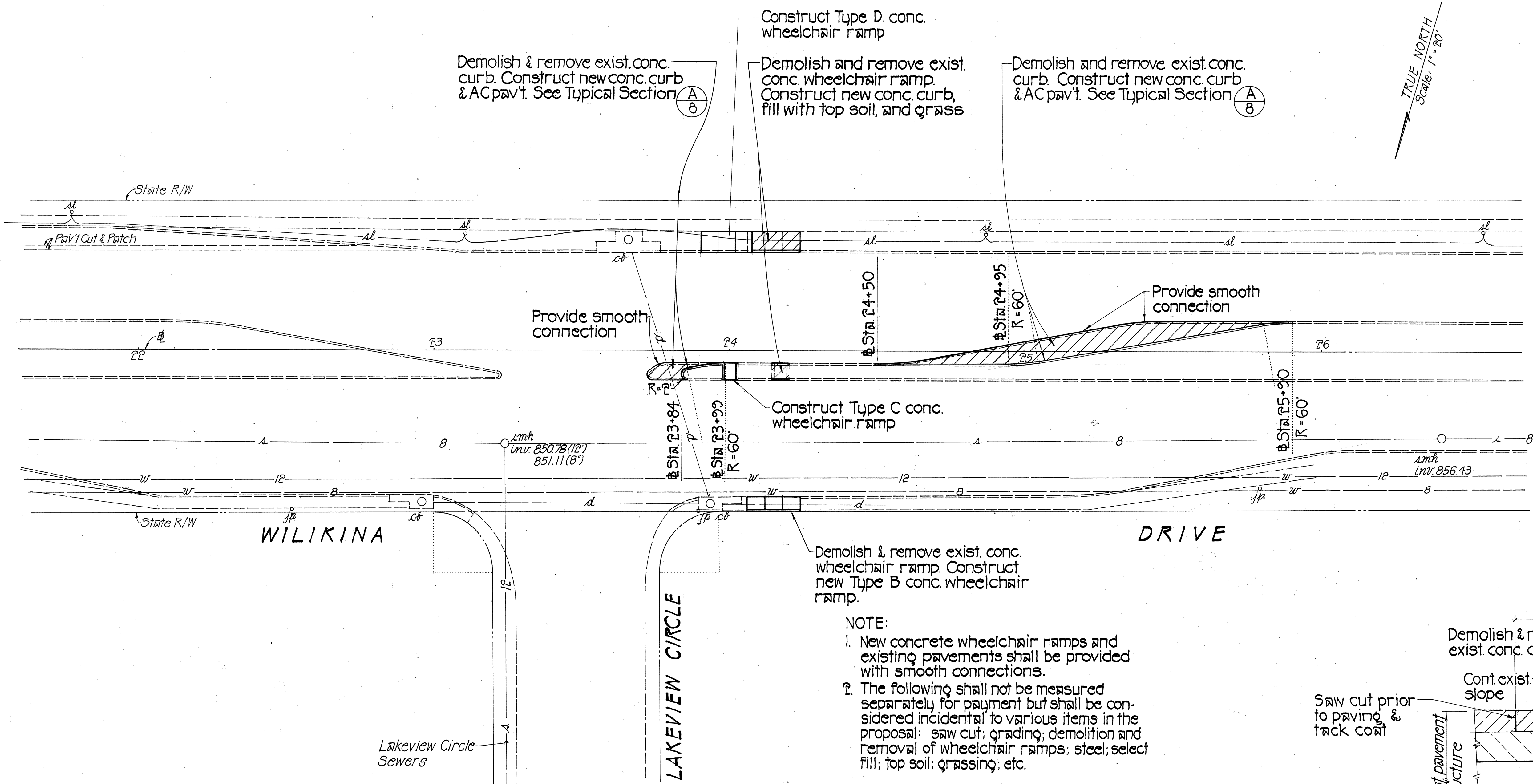
DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
TRACED BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
NO.	_____



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Harold I. Yoshizaki
 SHIMADZUKO, ENGINEERS & ARCHITECTS, INC.
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 Honolulu, Hawaii 96816

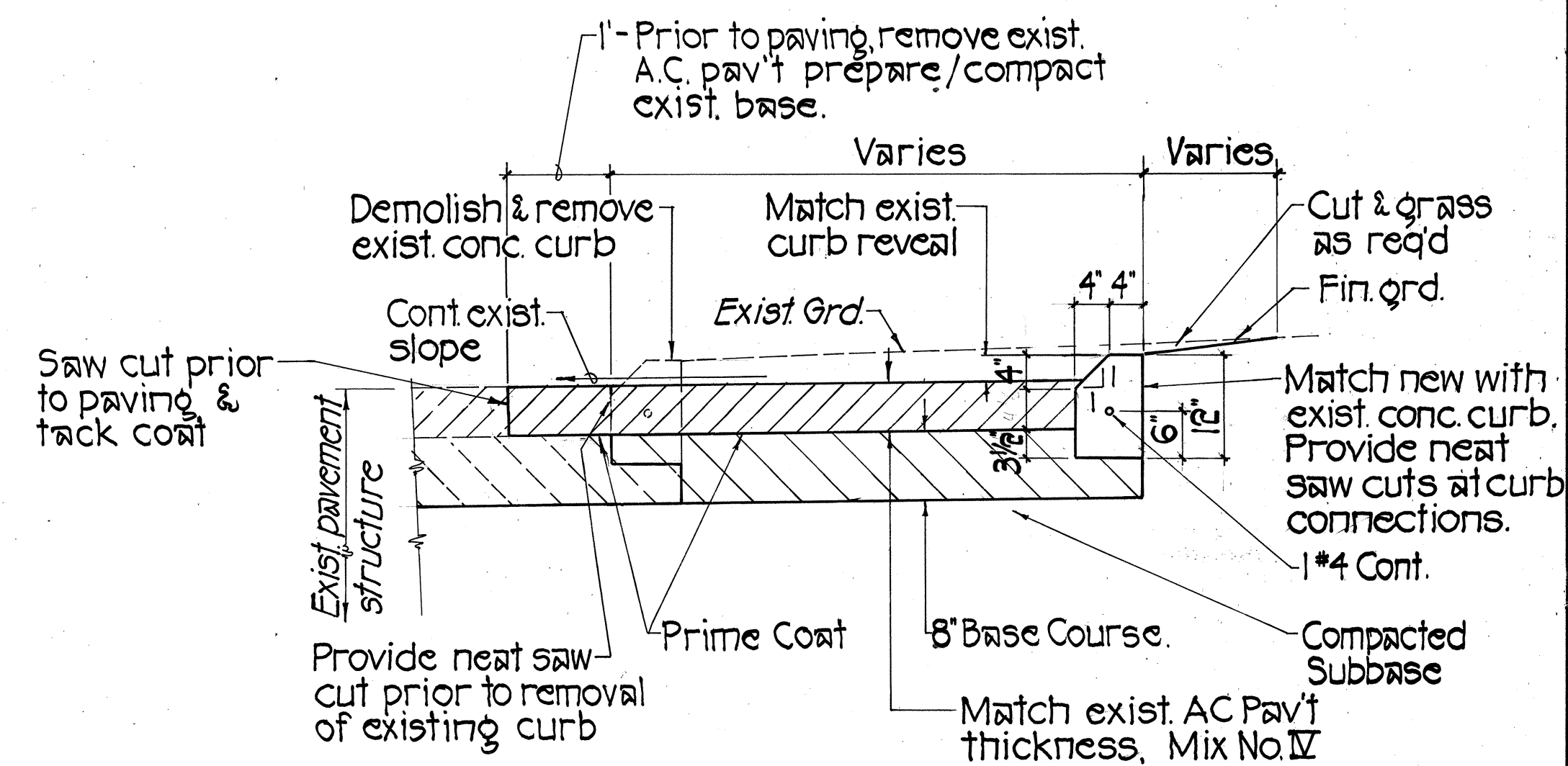
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
PLAN ~ OVERHEAD INTERCONNECTION CABLE
 WILIKINA DRIVE
 TRAFFIC SIGNALS AT LAKEVIEW CIRCLE
 FED. AID PROJECT NO. STP-099-1(17)
 SCALE: AS SHOWN DATE: JAN. 1997
 SHEET NO. 3 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-099-1(17)	1997	8	13



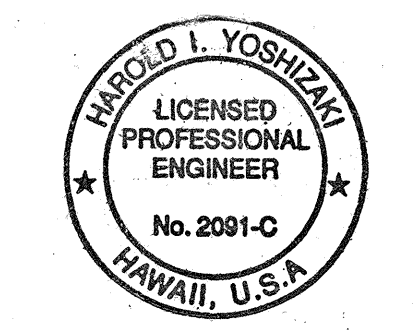
PLAN ~ INTERSECTION IMPROVEMENTS
Scale: 1" = 20' TMK: 7-3-01

- NOTE:
1. New concrete wheelchair ramps and existing pavements shall be provided with smooth connections.
 2. The following shall not be measured separately for payment but shall be considered incidental to various items in the proposal: saw cut; grading; demolition and removal of wheelchair ramps; steel; select fill; top soil; grassing; etc.



TYPICAL SECTION A/8
Not to Scale

APPROVED: *[Signature]* 9/10/96
CHIEF, DIVISION OF PLANNING & SERVICE CONTROL, D.W.M. DATE
(FOR SEWER WORK WITHIN PUBLIC R/W ONLY)



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PLAN ~ INTERSECTION IMPROVEMENTS
WILIKINA DRIVE
TRAFFIC SIGNALS AT LAKEVIEW CIRCLE
FED. AID PROJECT NO. STP-099-1(17)
SCALE: AS SHOWN DATE: JAN. 1997
SHEET NO. 1 OF 1 SHEETS

8

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