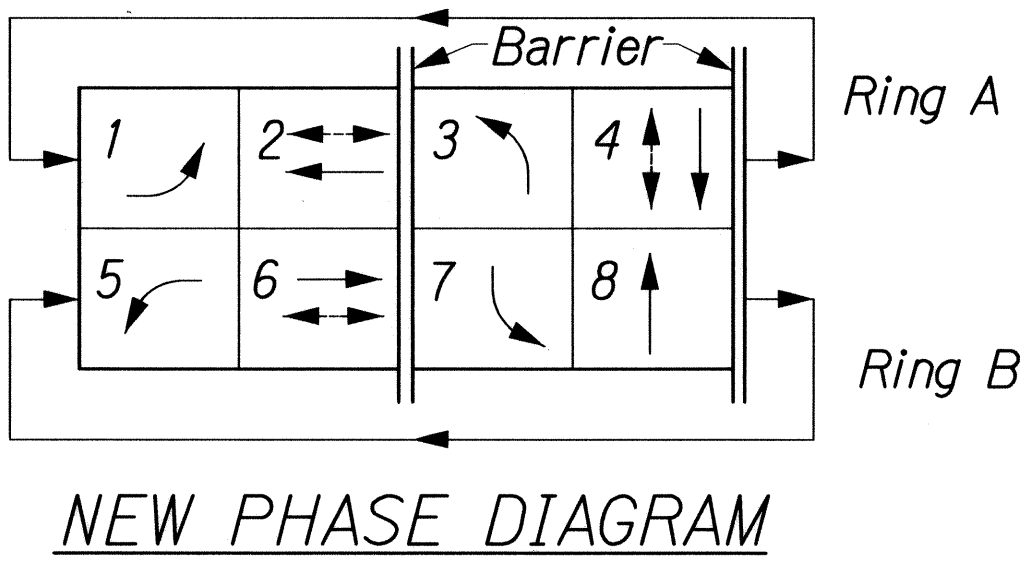
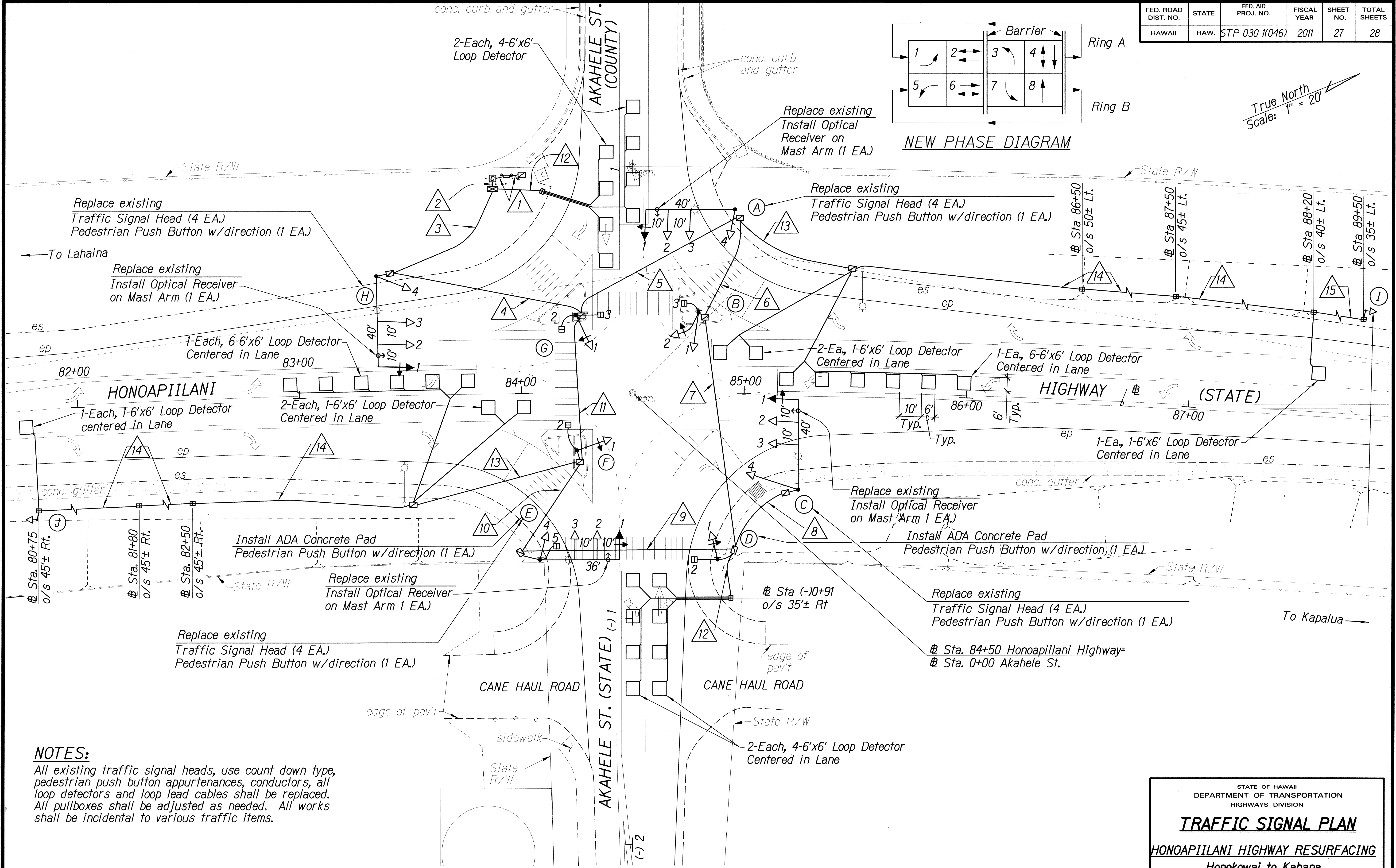


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(046)	2011	27	28



True North
Scale: 1" = 20'

NOTES:
All existing traffic signal heads, use count down type, pedestrian push button appurtenances, conductors, all loop detectors and loop lead cables shall be replaced. All pullboxes shall be adjusted as needed. All works shall be incidental to various traffic items.

TRAFFIC SIGNAL PLAN
Scale: 1"=20'

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNAL PLAN
HONOAPIILANI HIGHWAY RESURFACING
Honokowai to Kahana
Federal-Aid Project No. STP-030-1(046)
Scale: 1" = 20' Date: December, 2010
SHEET No. 1 OF 2 SHEETS

ORIGINAL PLAN	DATE	12/10
SURVEY PLOTTED BY		
DRAWN BY		
DESIGNED BY		
CHECKED BY		
NOTED BY		
REVIEWED BY		
APPROVED BY		

CONDUIT & CABLE SCHEDULE

Description	PVC Conduits	Quantity & Type of Cable
1	1-2"	1 - Type 6
2	11-2"	1 - Type 1, Ground Wire 1 - Type 1, Ground Wire 1 - Type 1, Ground Wire 1 - Type 1, Ground Wire 4 - Type 2 4 - Type 2 5 - Type 2 4 - Type 7 2 - Type 8 2 - Spare
3	11-2"	1 - Type 1, Ground Wire 1 - Type 1, Ground Wire 1 - Type 1, Ground Wire 1 - Type 1, Ground Wire 4 - Type 2 4 - Type 2 3 - Type 2 4 - Type 7 2 - Type 8 2 - Spare
4	11-2"	1 - Type 1, Ground Wire 1 - Type 1, Ground Wire 1 - Type 1, Ground Wire 1 - Type 1, Ground Wire 4 - Type 2 4 - Type 2 3 - Type 2 3 - Type 7 2 - Type 8 2 - Spare
5	6-2"	1 - Type 1, Ground Wire 1 - Type 1, Ground Wire 4 - Type 2 1 - Type 7 1 - Type 8 1 - Spare
6	4-2"	1 - Type 1, Ground Wire 1 - Type 1, Ground Wire 1 - Type 2 1 - Spare
7	3-2"	1 - Type 1, Ground Wire 1 - Type 1, Ground Wire 1 - Spare
8	4-2"	1 - Type 1, Ground Wire 1 - Type 1, Ground Wire 1 - Type 7 1 - Spare
9	5-2"	1 - Type 1, Ground Wire 1 - Type 1, Ground Wire 3 - Type 2 1 - Type 7 1 - Spare
10	5-2"	1 - Type 1, Ground Wire 1 - Type 1, Ground Wire 3 - Type 2 2 - Type 7 1 - Spare

CONDUIT & CABLE SCHEDULE (CONT.)

Description	PVC Conduits	Quantity & Type of Cable
11	7-2"	1 - Type 1, Ground Wire 1 - Type 1, Ground Wire 4 - Type 2 3 - Type 2 2 - Type 7 1 - Type 8 1 - Spare
12	1-2"	2 - Type 2
13	2-2"	3 - Type 2 1 - Type 8
14	2-2"	1 - Type 2 1 - Type 8
15	1-2"	1 - Type 8

CABLE NOTES:

- Type 1

Signal Loop Cable:
Stranded, No. 14, 26 Conductors
- Type 2

Detector Lead-In Cable and Pedestrian Push Button
Circuit Cable: Standard, No. 14, 2 Conductors
- Type 3

Interconnect Cable:
Solid No. 19, 12 Pairs
- Type 4

Loop Sensor Cable:
Solid No. 12, Single Conductor to IMSA SPEC 51-5
- Type 5

Signal Drop Cable:
Stranded, No. 14, Single Conductor
- Type 6

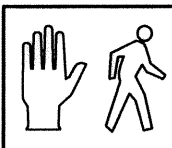
Service Cable:
Solid, No. 6, 3 Conductors
- Type 7

Optical Cable:
Solid, No. 20, 3 Conductors
No. 20, 1 Ground
- Type 8

Hazard Identification Beacon
Cable: Solid, No. 12, 3 Conductors
- Type 9

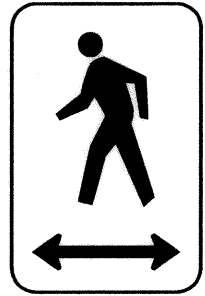
Highway Lighting:
3-#8, 1-#8 Grd.

TRAFFIC SIGNAL HEAD SCHEDULE

TRAFFIC SIGNAL HEAD SCHEDULE			
	12" RYG TRAFFIC SIGNAL HEAD	12" RY < TRAFFIC SIGNAL HEAD	PEDESTRIAN SIGNAL HEAD
POLE LETTER AND SIGNAL HEAD NUMBER	A-2 C-4 H-4 A-3 E-2 A-4 E-3 B-1 E-4 C-2 H-2 C-3 H-3	*A-1 G-1 B-2 *H-1 *C-1 D-1 *E-1 F-1	B-3 D-2 E-5 F-2 G-2 G-3

* Programmed Visibility Head

PEDESTRIAN PUSH BUTTON SCHEDULE

 R10-4B (Sign Varies w/Direction)	
POLE or PPB	SIGNS
(B) 	(→) R10-4B (R)
(D) 	(←) R10-4B (L)
(E) 	(→) R10-4B (R)
(F) 	(←) R10-4B (L)
(G) 	(←) R10-4B (L) and (→) R10-4B (R)

LIST OF MATERIALS

Pole Letter	Standard Type	Signal Head No.	Mounting Type	Signal Faces & Optical Receivers
A	III-40	1 2 3 4	Mast Arm, One-Way Mast Arm, One-Way Mast Arm, One-Way Pole Bracket, One-Way Mast Arm (Hor.)	* R Y < R Y G R Y G R Y G Optical Receiver
B	I-10	1 2 3	Slipfitter, Two-Way Slipfitter, Two-Way Pole Bracket, One-Way	R Y G R Y < H - M
C	III-40	1 2 3 4	Mast Arm, One-Way Mast Arm, One-Way Mast Arm, One-Way Pole Bracket, One-Way Mast Arm (Hor.)	* R Y < R Y G R Y G R Y G Optical Receiver
D	I-10	1 2	Slipfitter, One-Way Pole Bracket, One-Way	R Y < H - M
E	III-36	1 2 3 4 5	Mast Arm, One-Way Mast Arm, One-Way Mast Arm, One-Way Pole Bracket, One-Way Pole Bracket, One-Way Mast Arm (Hor.)	* R Y < R Y G R Y G R Y G H - M Optical Receiver
F	I-10	1 2	Slipfitter, One-Way Pole Bracket, One-Way	R Y < H - M
G	I-10	1 2 3	Slipfitter, One-Way Pole Bracket } Two-Way Pole Bracket }	R Y < H - M H - M
H	III-40	1 2 3 4	Mast Arm, One-Way Mast Arm, One-Way Mast Arm, One-Way Pole Bracket Mast Arm (Hor.)	* R Y < R Y G R Y G R Y G Optical Receiver
I	I-13	1	Slipfitter, One-Way	Hazard Beacon
J	I-13	1	Slipfitter, One-Way	Hazard Beacon

* Programmed Visibility Head

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNAL PLAN

HONOAPIILANI HIGHWAY RESURFACING

Honokowai to Kahana

Federal-Aid Project No. STP-030-1(046)

Scale: As Shown Date: December, 2010

SHEET No. 2 OF 2 SHEETS