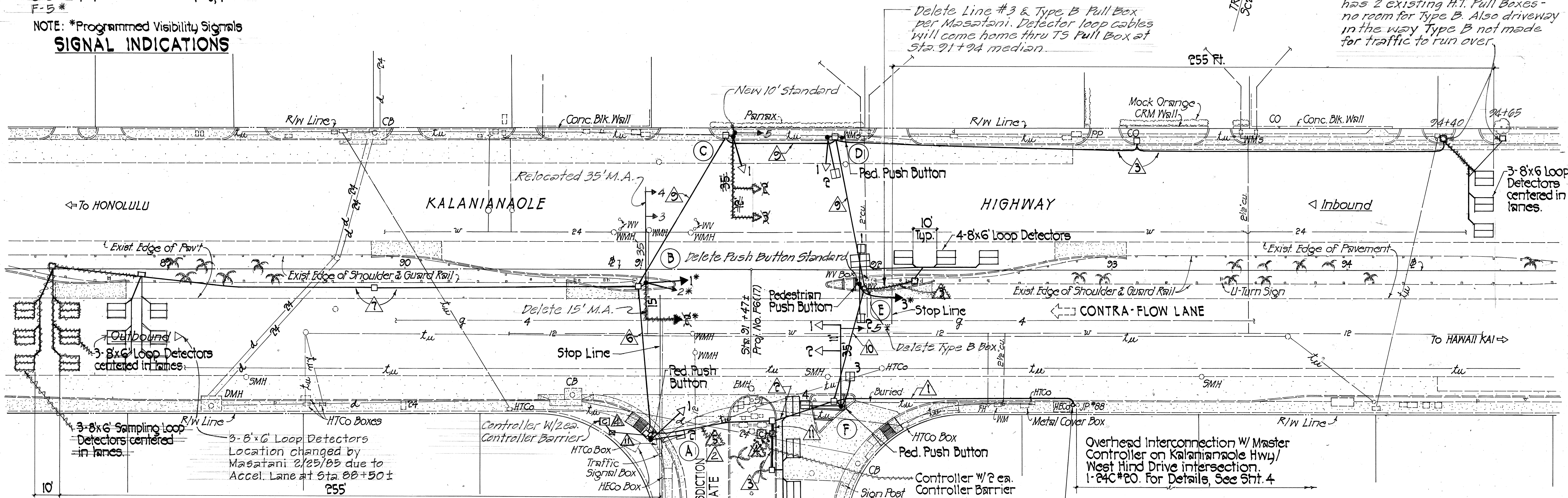


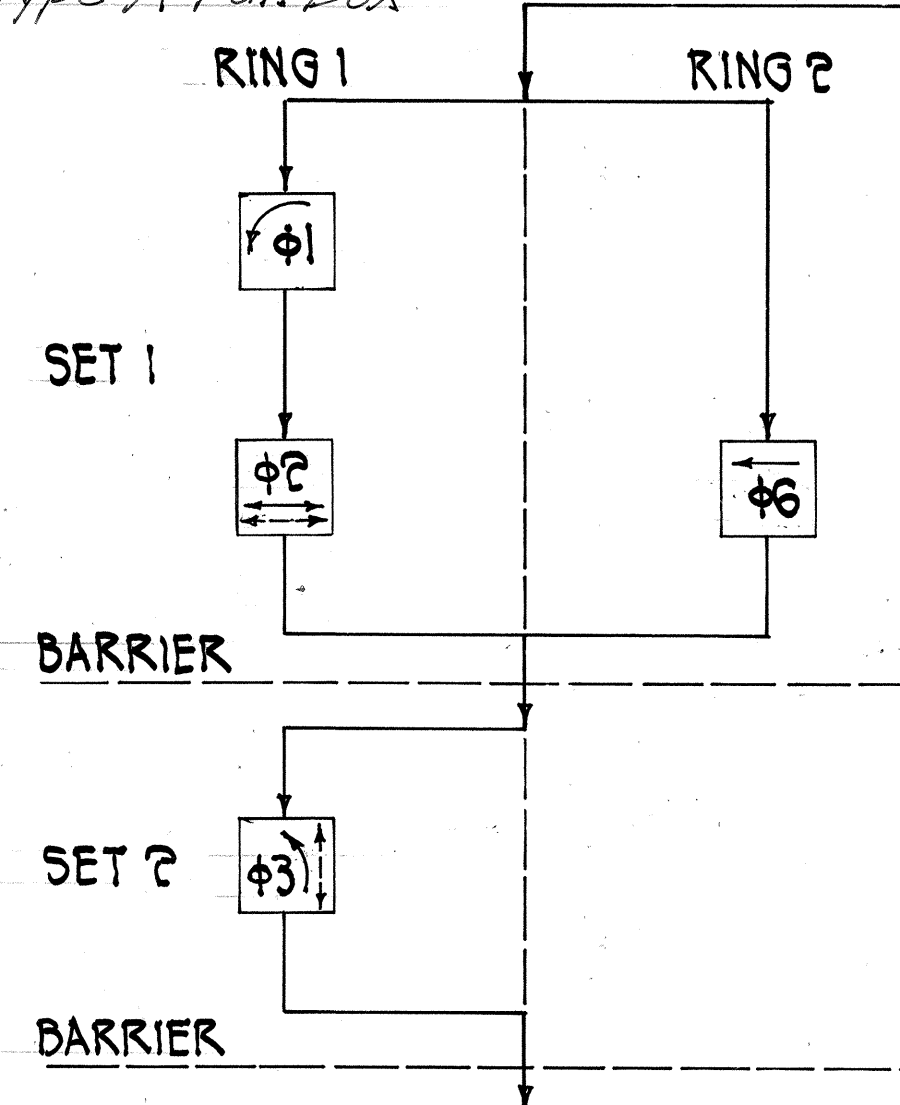
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72C-01-84	1984	3	18

R	R	R	Hand	Walk
Y	Y	Y	DONT WALK	WALK
G	↑	←		
A-1	B-2*	B-1*	A-2	
D-1	B-2,3,4	C-1	D-2	
F-2	E-3*		E-1,2	
C-5	F-1		F-3,4	
F-5*				

NOTE: *Programmed Visibility Signals
SIGNAL INDICATIONS



CONDUIT & CABLE SCHEDULE		
△	CONDUIT	CABLE
1	2" 2" Sch. 80	1-3C#4, 1-24C#20
2	4" 2" Sch. 80	1-3C#4, 1-26C#14, 1-24C#20, 4-2C#14
3	1" 2" Sch. 80	1-2C#14
4	6" 2" Sch. 80	2-26C#14, 1-24C#20, 1-3C#4, 9-2C#14
5	2" 2" Sch. 80	1-26C#14, 5-2C#14
6	2" 2" Sch. 80	1-26C#14, 4-2C#14
7	1" 2" Sch. 80	4-2C#14
9	2" 2" Sch. 80	1-26C#14, 2-2C#14
10	2" 2" Sch. 80	1-26C#14, 3-2C#14
11	6" 2" Sch. 80	2-26C#14, 1-24C#20, 1-3C#4, 8-2C#14
12	1" 2" Sch. 80	1-24C#20
13	6" 2" Sch. 80	1-3C#4, 2-26C#14, 2-24C#20, 9-2C#14



NOTE: B-2 & E-3 shall be connected to Phase 2.

PHASE DIAGRAM

PLAN
Scale: 1"=20'

Service Connection
See Detail
HECO NOTES:
1. A Utility Co. standby man is required to be at the site at the time any non-Utility Co. personnel will be breaking into or entering any facilities that contain energized Utility Co. equipment or cables.
2. Three working days advance notice is required by the Utility Co. for any inspection service or standby man.
Call HECO - Phone 548-6846.

APPROVED:
[Signature] 12/6/83
CHIEF, DIVISION OF ENGINEERING, DPW
(APPROVED FOR CONSTRUCTION WITH CITY R/W ONLY)
[Signature] 11/28/83
CHIEF, PLANNING & ENGINEERING, BWS

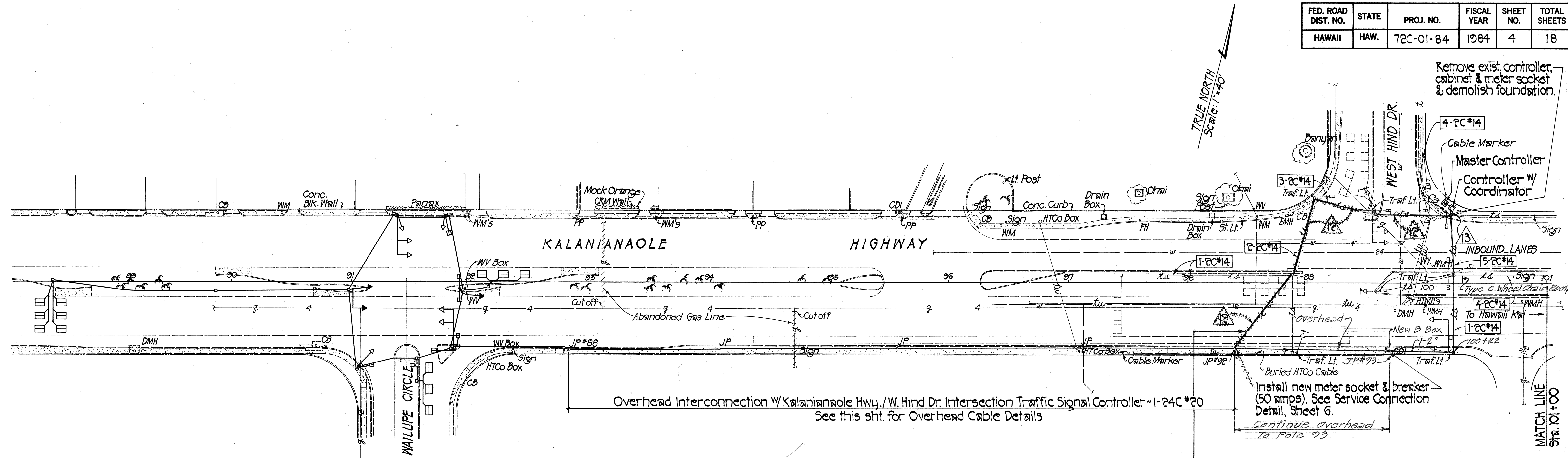
HAROLD I. YOSHIZAKI
REGISTERED PROFESSIONAL ENGINEER
No. 2091
HAWAII, U.S.A.
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
[Signature]

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN~TRAFFIC SIGNAL SYSTEM
KALANIANAʻOLE HIGHWAY TRAFFIC SIGNALS
AT WAIʻALEʻALE CIRCLE
PROJECT NO. 72C-01-84
SCALE: 1"=20' DATE: DEC. 28, 1983
SHEET NO. 1 OF 2 SHEETS

DATE: _____
SURVEY PLANNED BY: _____
DRAWN BY: _____
DESIGNED BY: _____
NOTED BY: _____
CHECKED BY: _____

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72C-01-84	1984	4	18



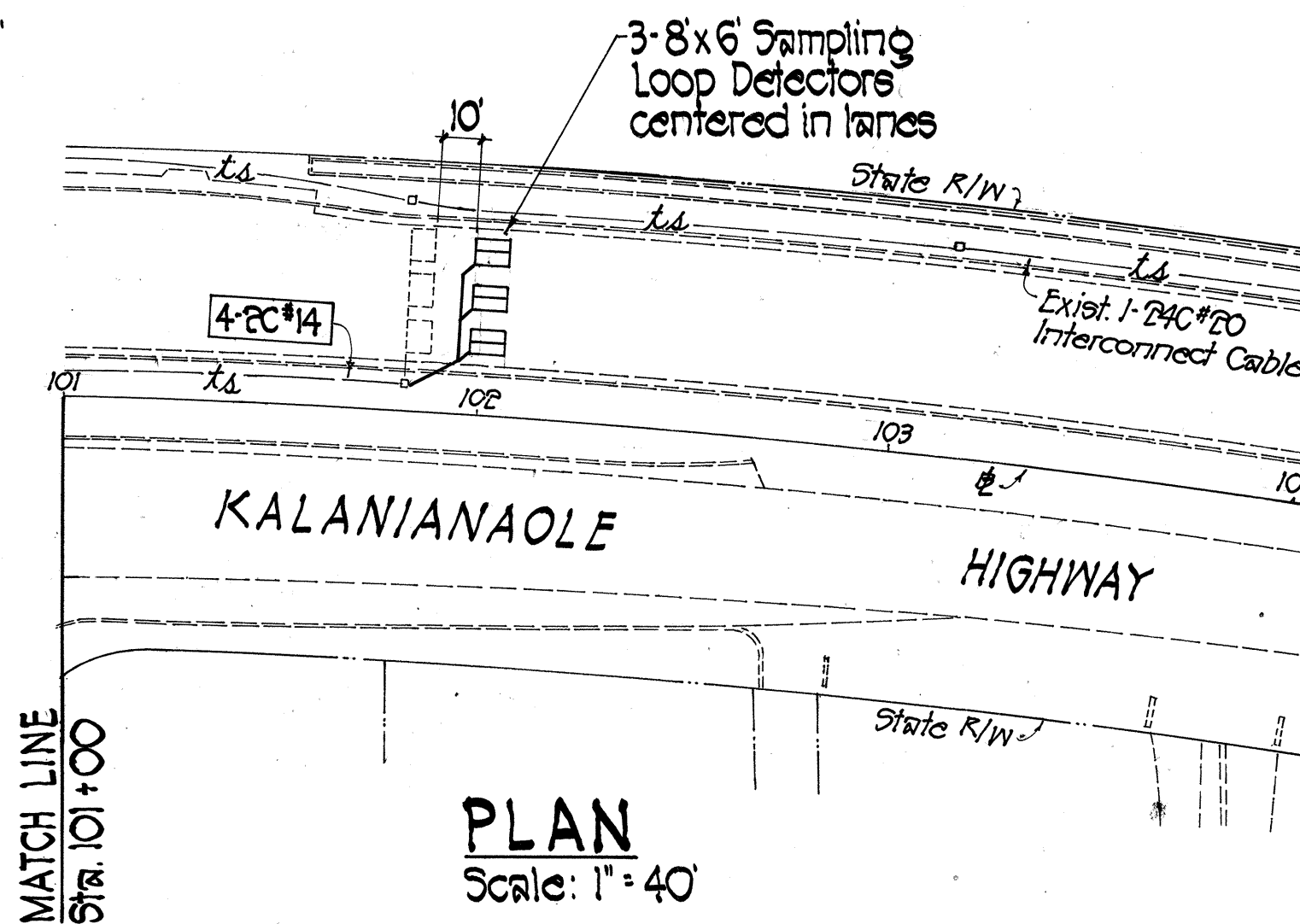
PLAN
Scale: 1"=40'

LEGEND

- 2-2C*14 Remove existing unshielded detector lead-in & pedestrian push button cables and install new shielded 2C*14 cables in existing conduit.
- Number of Cables to be installed
- Relocate line #12 due to existing loop detectors. Relocated line #12 will cross at station 100+22.1. Also extend Overhead Cable to JP#93 per Masatani

LEGEND:

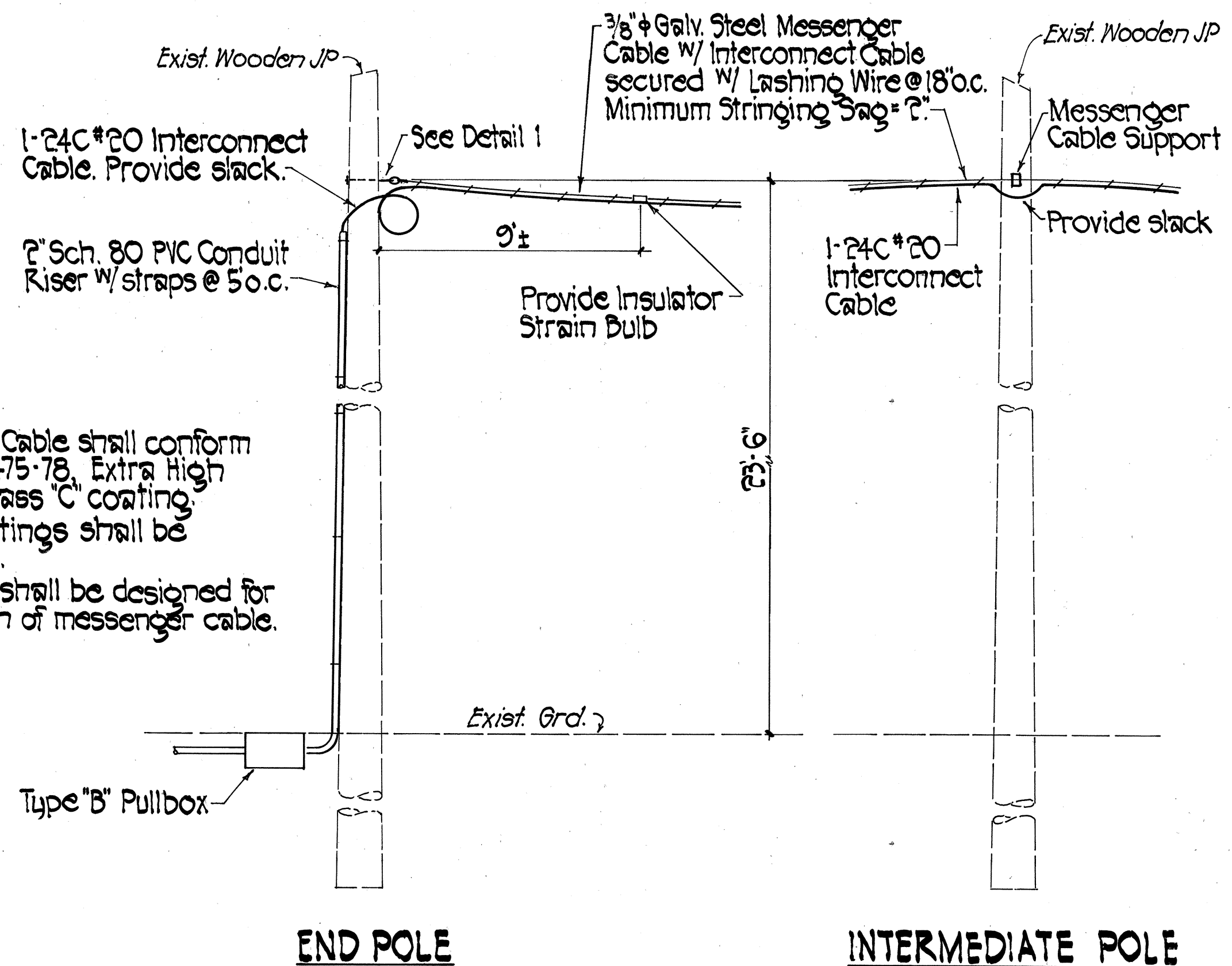
- New
--- Delete



PLAN
Scale: 1"=40'

NOTES:

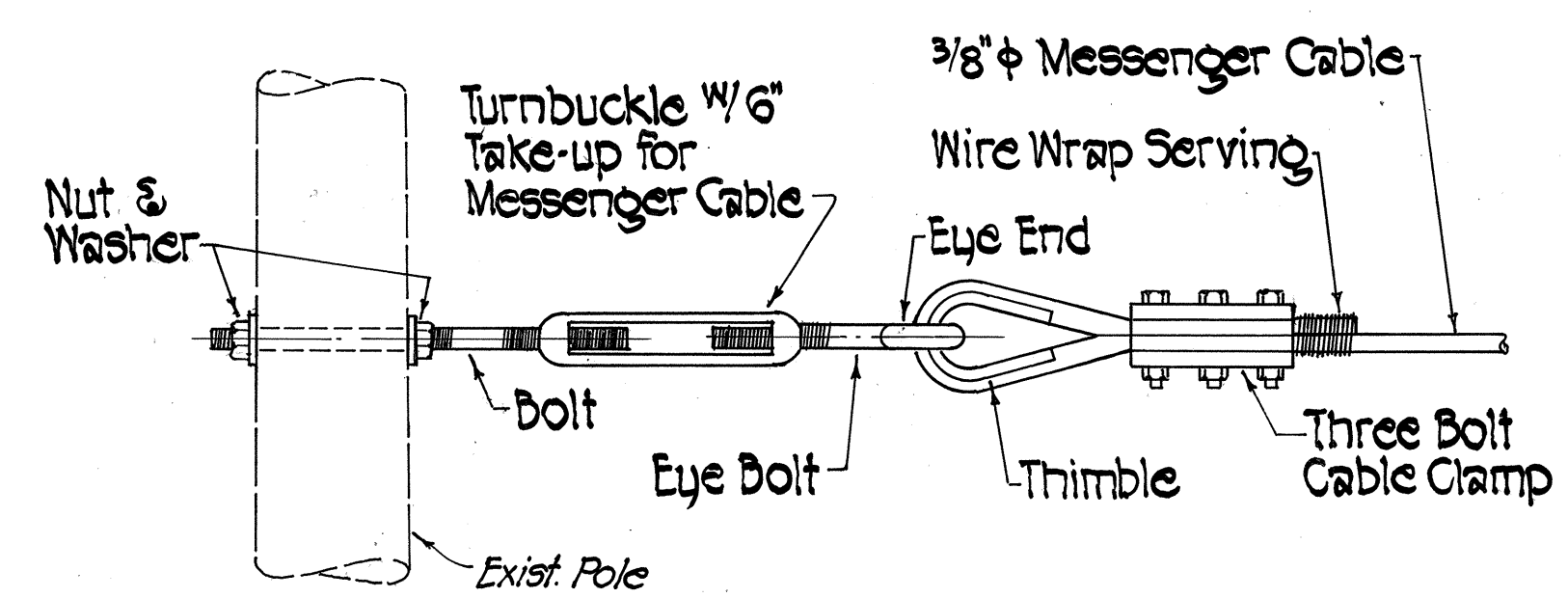
- Messenger Cable shall conform to ASTM A-475-78, Extra High Strength Class "C" coating.
- All cable fittings shall be galvanized.
- All fittings shall be designed for full strength of messenger cable.



END POLE

INTERMEDIATE POLE

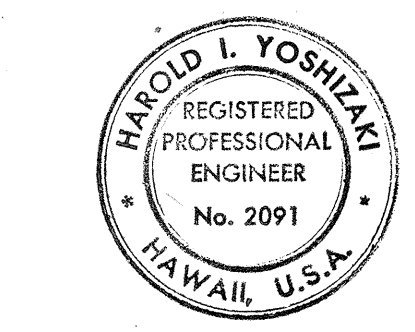
TYPICAL OVERHEAD INSTALLATION
Not to Scale



DETAIL 1
Not to Scale

APPROVED:

Delwin P. K. Ching
CHIEF, PLANNING & ENGINEERING, BWS
DATE 11/28/83



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Harold I. Yoshizaki

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN-TRAFFIC SIGNAL SYSTEM & DETAILS

KALANIANA'OLE HIGHWAY TRAFFIC SIGNALS AT WAILUPE CIRCLE

PROJECT NO. 72C-01-84
SCALE: AS SHOWN DATE: DEC. 28, 1983
SHEET NO. 2 OF 2 SHEETS