



ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:

**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:

**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

EDMON O. LACAULAN
Project Engineer

Checked by:

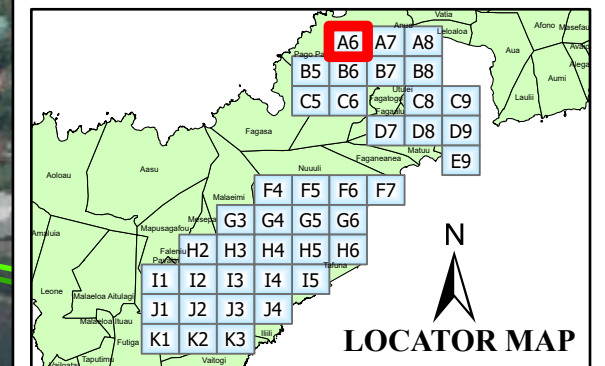
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:

WILLIAM SPITZENBERG, P.E.
ESD Manager

Issue for: **REFERENCE ONLY**

Date: 9/30/2019



Legend

- SEWER GRAVITY MAINS
- SEWER LATERALS
- SEWER FORCEMAIN
- station_flowmeter_updated
- MH_for_INFLOWprotector
- tut_villages

0 55 110 220 330 440 Feet

SHEET NO.
A6
PAGE 1 OF 40



ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:

**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:

**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

EDMON O. LACAULAN
Project Engineer

Checked by:

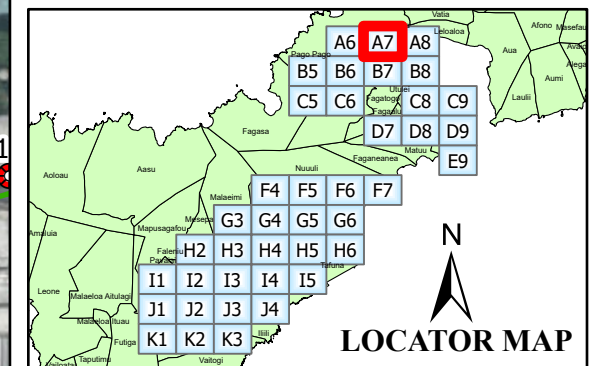
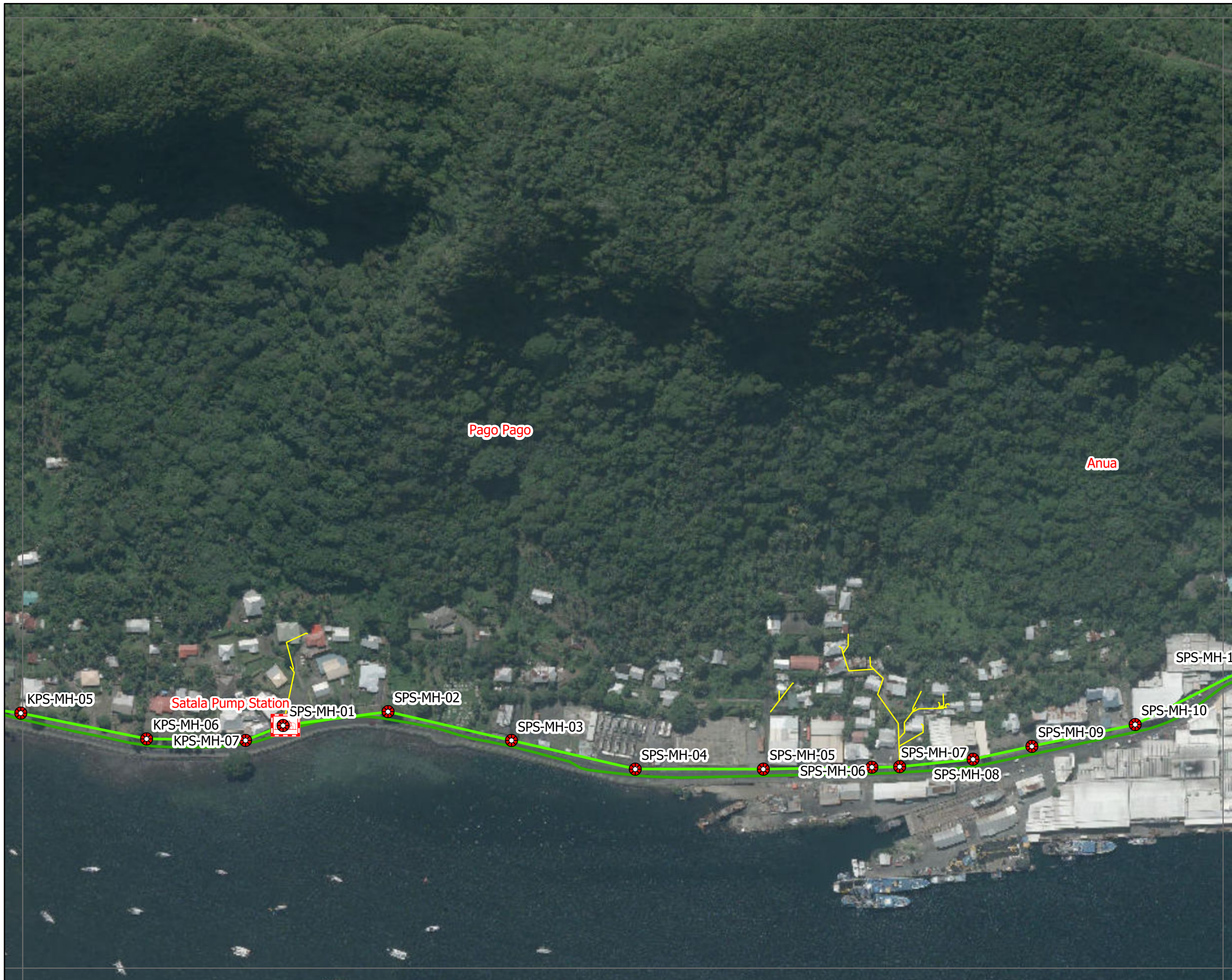
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:

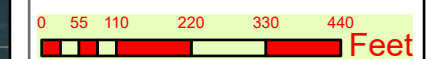
WILLIAM SPITZENBERG, P.E.
ESD Manager

Issue for: **REFERENCE ONLY**

Date: 9/30/2019



- Legend
- SEWER GRAVITY MAINS
 - SEWER LATERALS
 - SEWER FORCEMAIN
 - station_flowmeter_updated
 - MH_for_INFLOWprotector
 - tut_villages



SHEET NO.

A7

PAGE 2 OF 40



ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:

**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:

**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

EDMON O. LACAULAN
Project Engineer

Checked by:

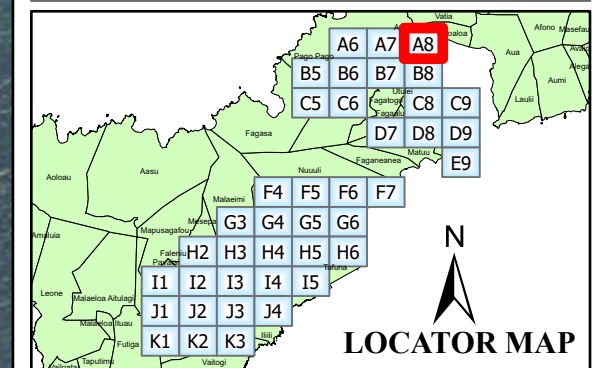
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:

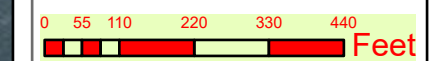
WILLIAM SPITZENBERG, P.E.
ESD Manager

Issue for: **REFERENCE ONLY**

Date: 9/30/2019



- Legend
- SEWER GRAVITY MAINS
 - SEWER LATERALS
 - SEWER FORCEMAIN
 - station_flowmeter_updated
 - MH_for_INFLOWprotector
 - tut_villages



SHEET NO.

A8

PAGE 3 OF 40



ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:

**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:

**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

EDMON O. LACAULAN
Project Engineer

Checked by:

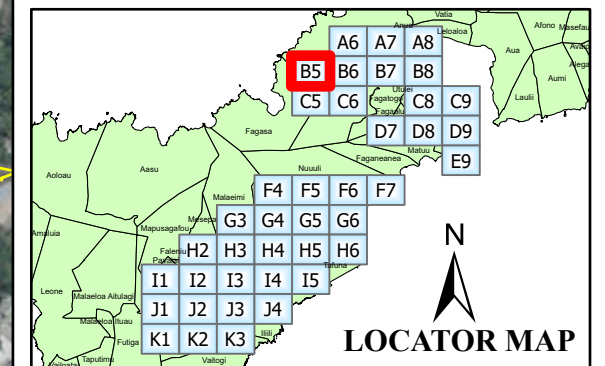
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:

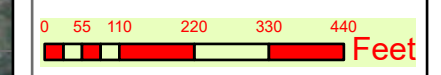
WILLIAM SPITZENBERG, P.E.
ESD Manager

Issue for: **REFERENCE ONLY**

Date: 9/30/2019



- Legend
- SEWER GRAVITY MAINS
 - SEWER LATERALS
 - SEWER FORCEMAIN
 - station_flowmeter_updated
 - MH_for_INFLOWprotector
 - tut_villages



SHEET NO.

B5

PAGE 4 OF 40





ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:

**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:

**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

EDMON O. LACAULAN
Project Engineer

Checked by:

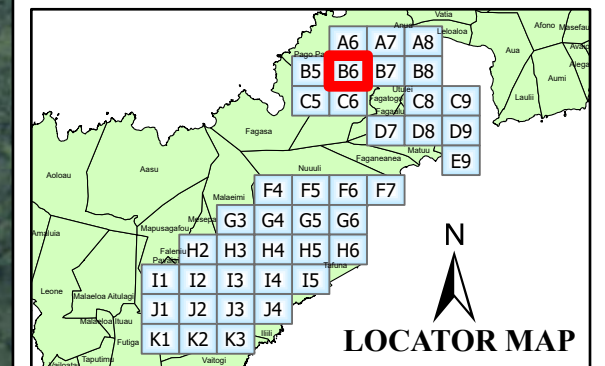
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:







WILLIAM SPITZENBERG, P.E.
ESD Manager

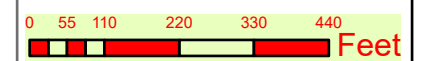
Issue for: **REFERENCE ONLY**

Date: 9/30/2019



Legend

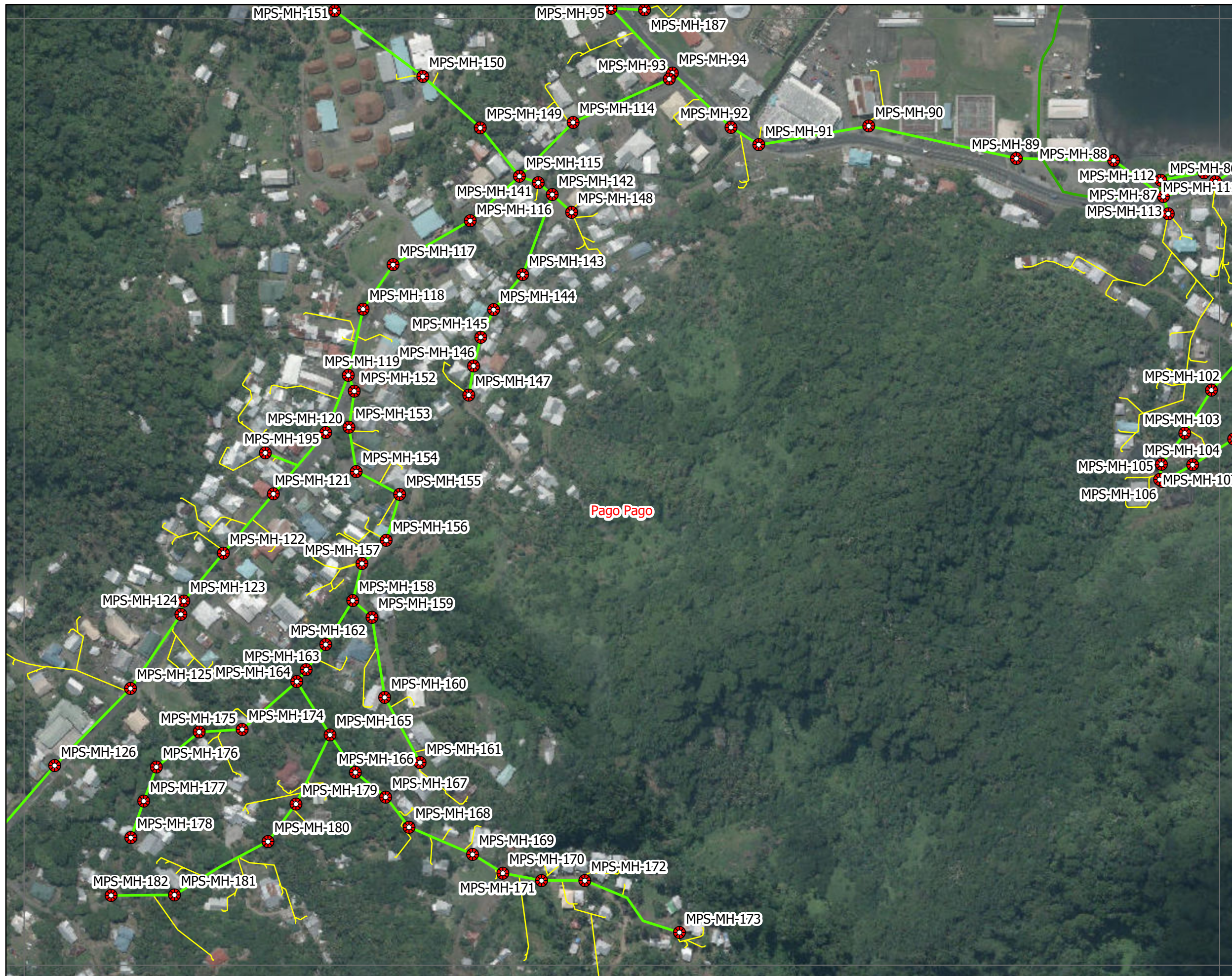
-  SEWER GRAVITY MAINS
-  SEWER LATERALS
-  SEWER FORCEMAIN
-  station_flowmeter_updated
-  MH_for_INFLOWprotector
-  tut_villages



SHEET NO.

B6

PAGE 5 OF 40





ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:

**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:

**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

EDMON O. LACAULAN
Project Engineer

Checked by:

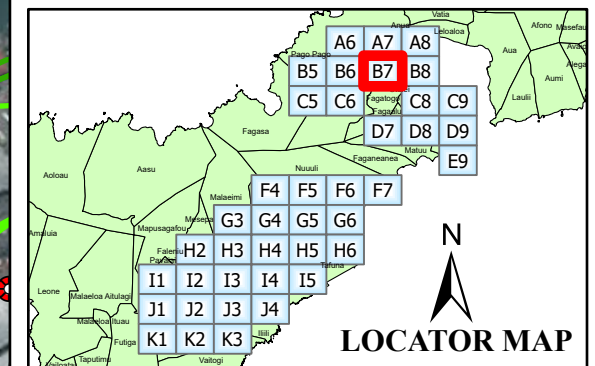
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:

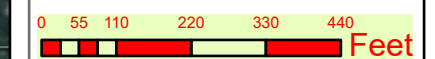
WILLIAM SPITZENBERG, P.E.
ESD Manager

Issue for: **REFERENCE ONLY**

Date: 9/30/2019



- Legend
- SEWER GRAVITY MAINS
 - SEWER LATERALS
 - SEWER FORCEMAIN
 - station_flowmeter_updated
 - MH_for_INFLOWprotector
 - tut_villages



SHEET NO.

B7

PAGE 6 OF 40



ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:

**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:

**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

EDMON O. LACAULAN
Project Engineer

Checked by:

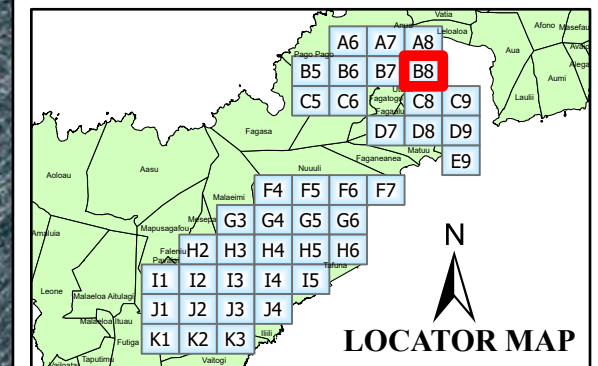
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:

WILLIAM SPITZENBERG, P.E.
ESD Manager

Issue for: **REFERENCE ONLY**

Date: 9/30/2019



Legend

- SEWER GRAVITY MAINS
- SEWER LATERALS
- SEWER FORCEMAIN
- station_flowmeter_updated
- MH_for_INFLOWprotector
- tut_villages

0 55 110 220 330 440 Feet

SHEET NO.
B8
PAGE 7 OF 40



ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:

**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:

**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

EDMON O. LACAULAN
Project Engineer

Checked by:

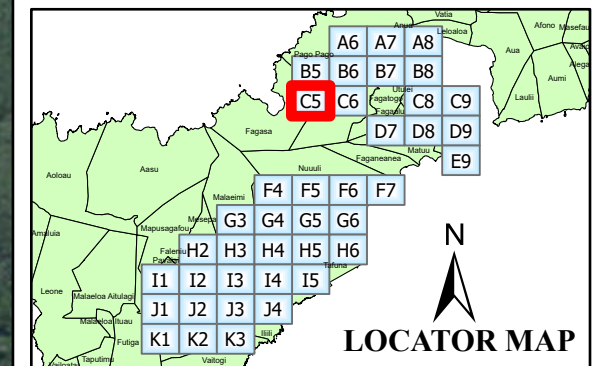
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:

WILLIAM SPITZENBERG, P.E.
ESD Manager

Issue for: **REFERENCE ONLY**

Date: 9/30/2019



Legend

- SEWER GRAVITY MAINS
- SEWER LATERALS
- SEWER FORCEMAIN
- station_flowmeter_updated
- MH_for_INFLOWprotector
- tut_villages

0 55 110 220 330 440 Feet

SHEET NO.
C5
PAGE 8 OF 40



ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:

**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:

**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

EDMON O. LACAULAN
Project Engineer

Checked by:

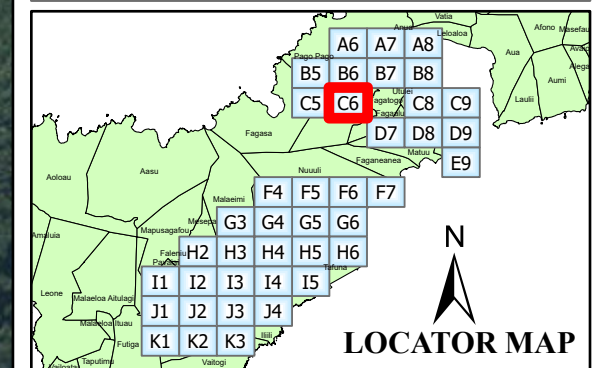
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:

WILLIAM SPITZENBERG, P.E.
ESD Manager

Issue for: **REFERENCE ONLY**

Date: 9/30/2019



Legend

- SEWER GRAVITY MAINS
- SEWER LATERALS
- SEWER FORCEMAIN
- station_flowmeter_updated
- MH_for_INFLOWprotector
- tut_villages

0 55 110 220 330 440 Feet

SHEET NO.
C6
PAGE 9 OF 40



ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:
**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:
**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

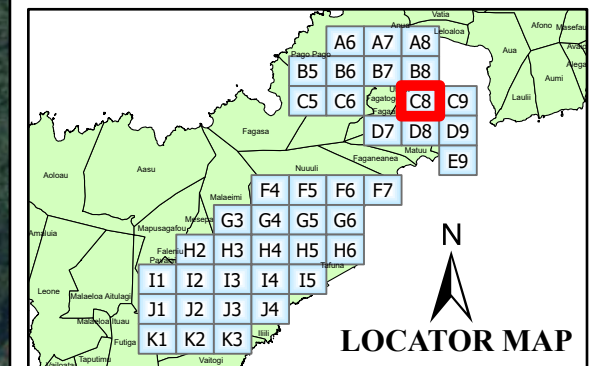
Drawing Title:
**RAIN GUARD
INSTALLATION MAP**

Prepared by:
EDMON O. LACAULAN
Project Engineer

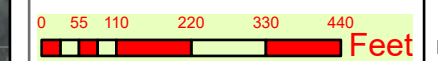
Checked by:
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:
WILLIAM SPITZENBERG, P.E.
ESD Manager

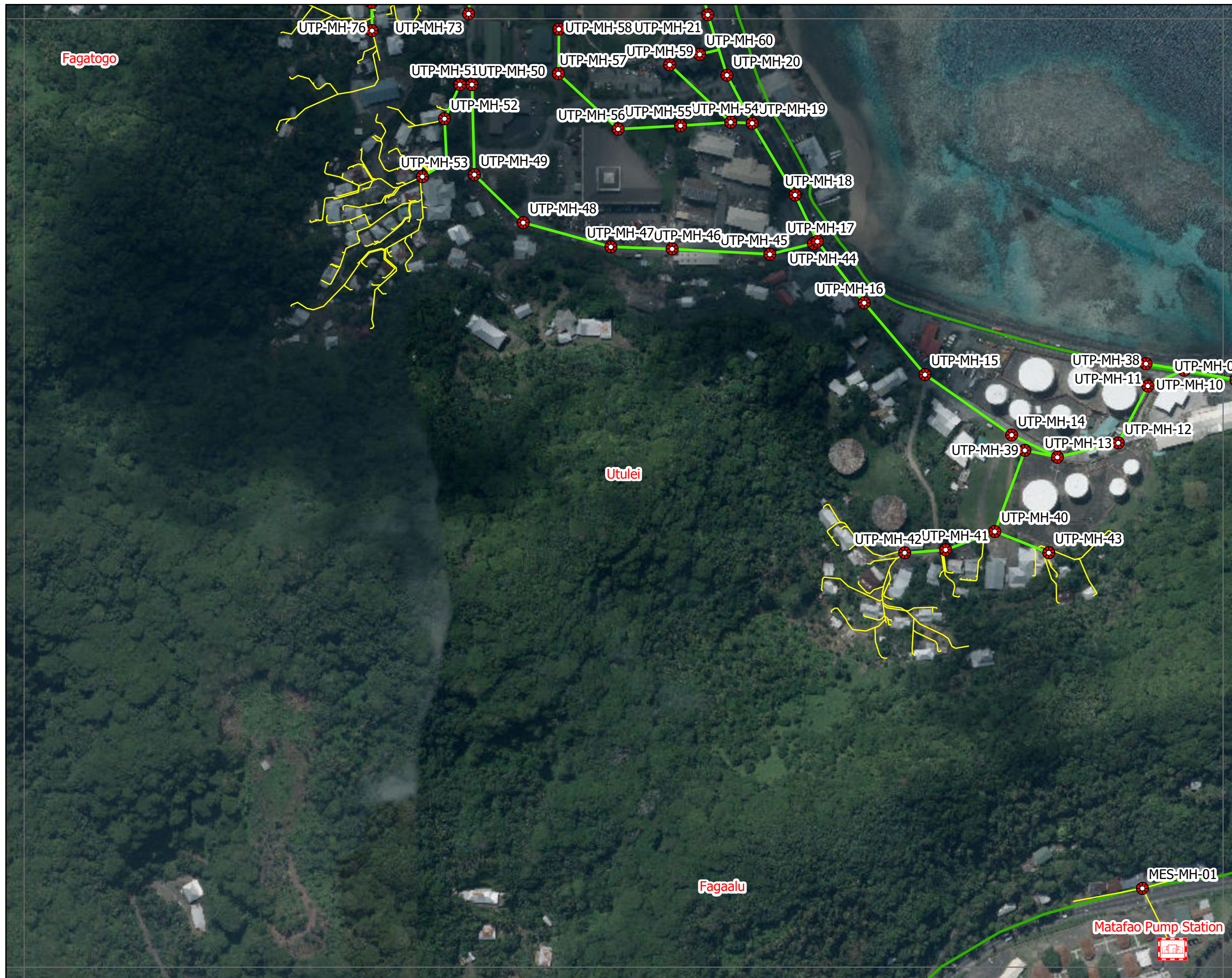
Issue for: **REFERENCE ONLY**
Date: 9/30/2019



- Legend
- SEWER GRAVITY MAINS
 - SEWER LATERALS
 - SEWER FORCEMAIN
 - station_flowmeter_updated
 - MH_for_INFLOWprotector
 - tut_villages



SHEET NO.
C8
PAGE 10 OF 40





ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:

**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:

**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

EDMON O. LACAULAN
Project Engineer

Checked by:

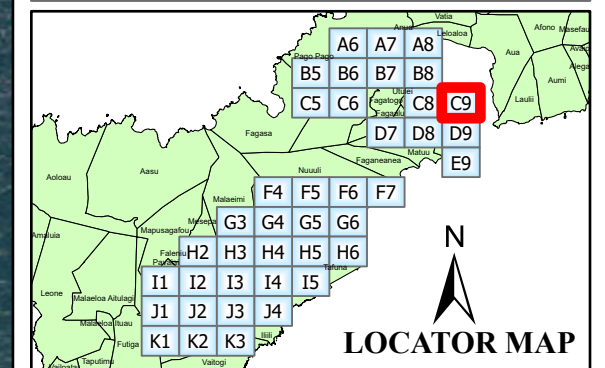
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:

WILLIAM SPITZENBERG, P.E.
ESD Manager

Issue for: **REFERENCE ONLY**

Date: 9/30/2019



Legend

- SEWER GRAVITY MAINS
- SEWER LATERALS
- SEWER FORCEMAIN
- station_flowmeter_updated
- MH_for_INFLOWprotector
- tut_villages

0 55 110 220 330 440 Feet

SHEET NO.
C9
PAGE 11 OF 40

Pago Pago

Fagatogo

Fagaalu

Matuu

Faganeanea



ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:

**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:

**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

EDMON O. LACAULAN
Project Engineer

Checked by:

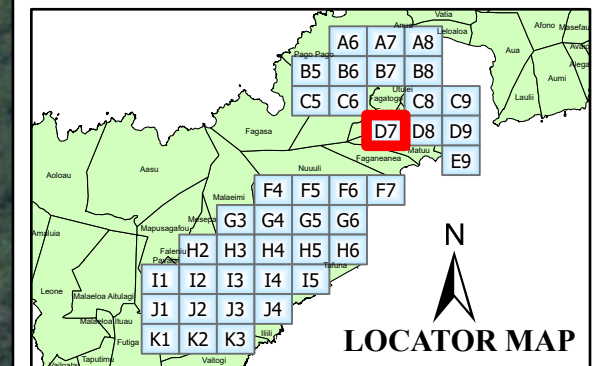
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:







WILLIAM SPITZENBERG, P.E.
ESD Manager

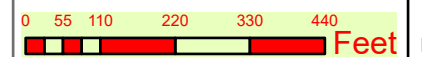
Issue for: **REFERENCE ONLY**

Date: 9/30/2019



Legend

-  SEWER GRAVITY MAINS
-  SEWER LATERALS
-  SEWER FORCEMAIN
-  station_flowmeter_updated
-  MH_for_INFLOWprotector
-  tut_villages



SHEET NO.

D7

PAGE 12 OF 40



ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:

**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:

**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

EDMON O. LACAULAN
Project Engineer

Checked by:

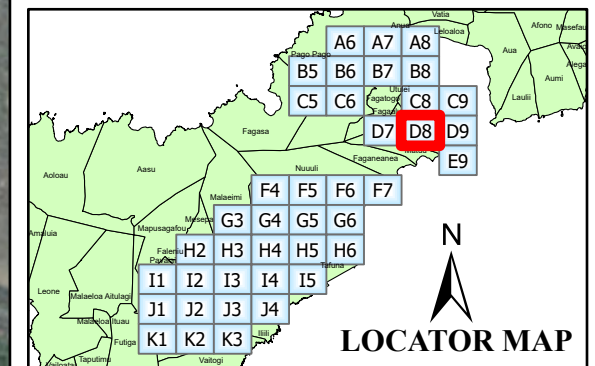
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:

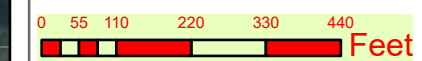
WILLIAM SPITZENBERG, P.E.
ESD Manager

Issue for: **REFERENCE ONLY**

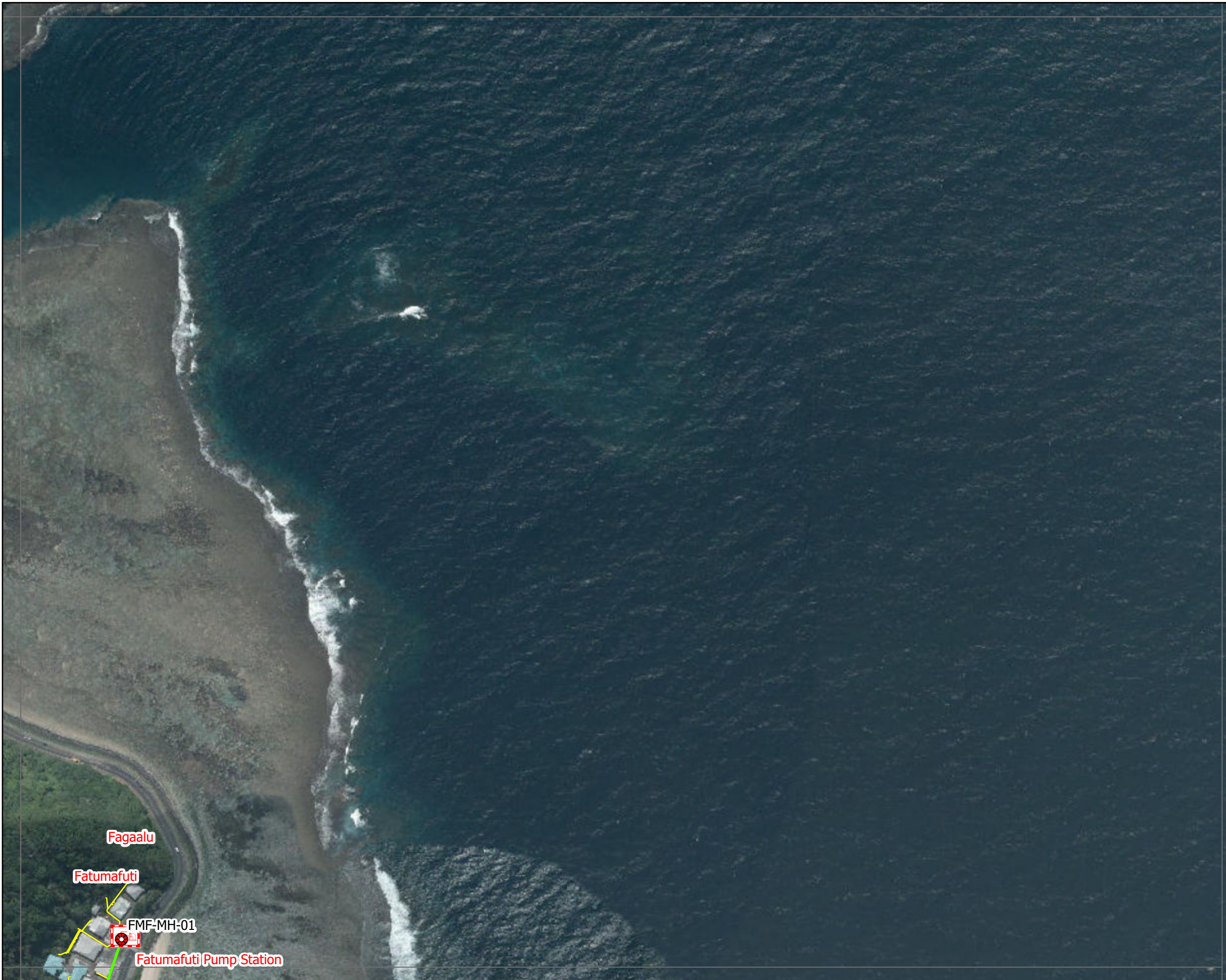
Date: 9/30/2019



- Legend
- SEWER GRAVITY MAINS
 - SEWER LATERALS
 - SEWER FORCEMAIN
 - station_flowmeter_updated
 - MH_for_INFLOWprotector
 - tut_villages



SHEET NO.
D8
PAGE 13 OF 40



ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:
**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:
**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

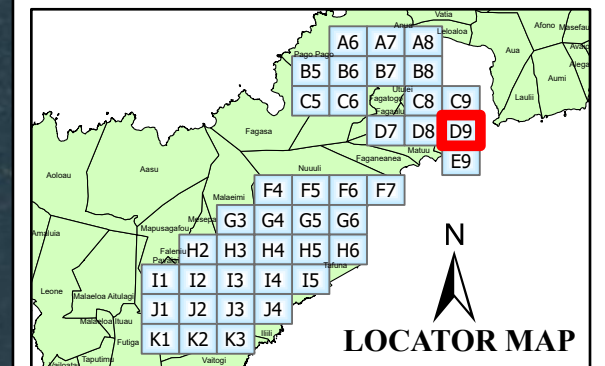
Drawing Title:
**RAIN GUARD
INSTALLATION MAP**

Prepared by:
EDMON O. LACAULAN
Project Engineer

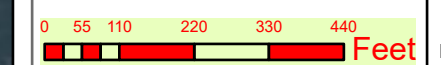
Checked by:
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:
WILLIAM SPITZENBERG, P.E.
ESD Manager

Issue for: **REFERENCE ONLY**
Date: 9/30/2019



- Legend
- SEWER GRAVITY MAINS
 - SEWER LATERALS
 - SEWER FORCEMAIN
 - station_flowmeter_updated
 - MH_for_INFLOWprotector
 - tut_villages



SHEET NO.
D9
PAGE 14 OF 40



ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:

**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:

**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

EDMON O. LACAULAN
Project Engineer

Checked by:

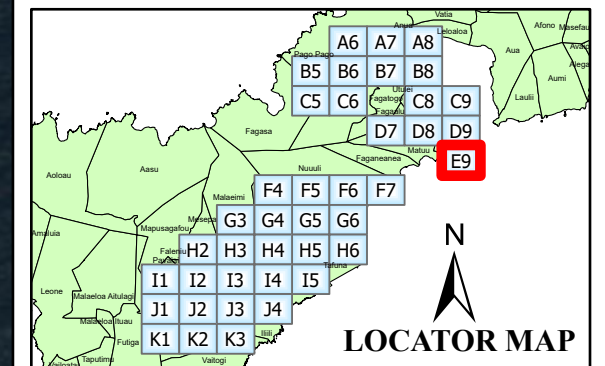
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:

WILLIAM SPITZENBERG, P.E.
ESD Manager

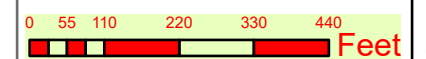
Issue for: **REFERENCE ONLY**

Date: 9/30/2019



Legend

- SEWER GRAVITY MAINS
- SEWER LATERALS
- SEWER FORCEMAIN
- station_flowmeter_updated
- MH_for_INFLOWprotector
- tut_villages



SHEET NO.

E9

PAGE 15 OF 40

Malaeimi

Nuuuli



ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:

**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:

**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

EDMON O. LACAULAN
Project Engineer

Checked by:

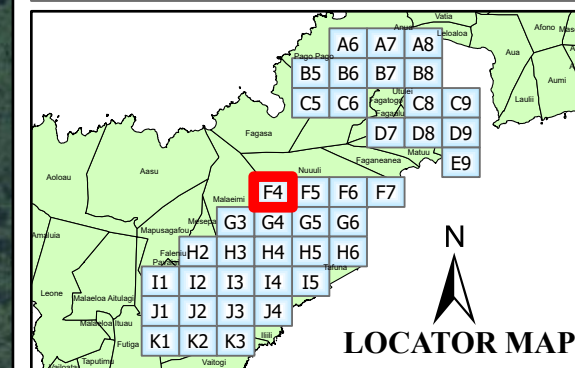
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:







WILLIAM SPITZENBERG, P.E.
ESD Manager

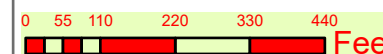
Issue for: **REFERENCE ONLY**

Date: 9/30/2019



Legend

-  SEWER GRAVITY MAINS
-  SEWER LATERALS
-  SEWER FORCEMAIN
-  station_flowmeter_updated
-  MH_for_INFLOWprotector
-  tut_villages



SHEET NO.

F4

PAGE 16 OF 40



ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:

**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:

**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

EDMON O. LACAULAN
Project Engineer

Checked by:

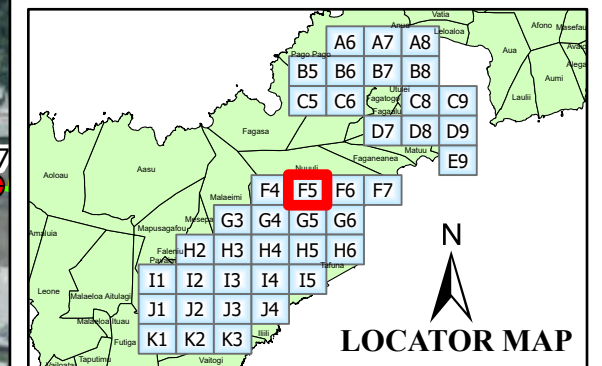
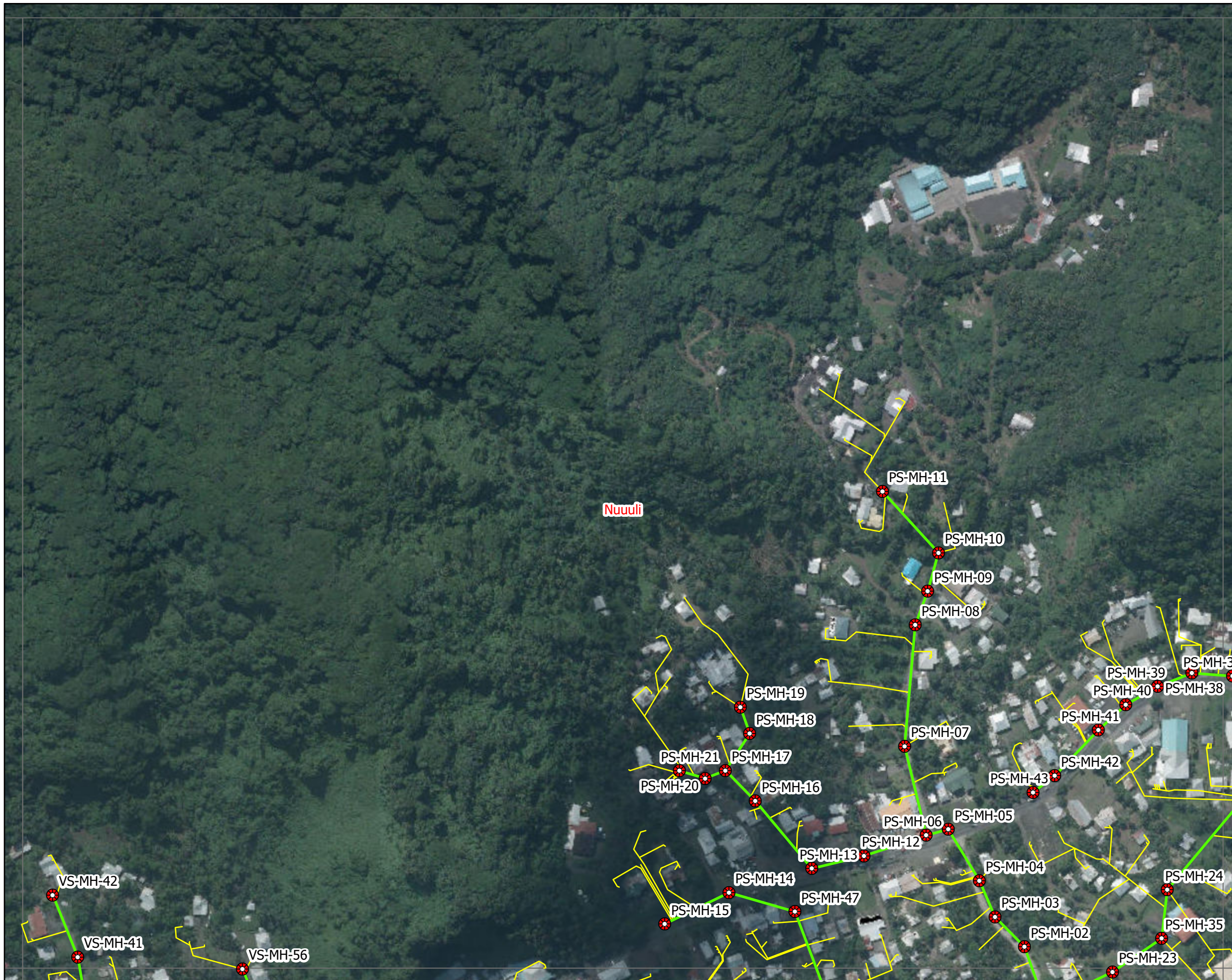
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:

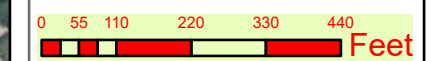
WILLIAM SPITZENBERG, P.E.
ESD Manager

Issue for: **REFERENCE ONLY**

Date: 9/30/2019



- Legend
- SEWER GRAVITY MAINS
 - SEWER LATERALS
 - SEWER FORCEMAIN
 - station_flowmeter_updated
 - MH_for_INFLOWprotector
 - tut_villages



SHEET NO.
F5
PAGE 17 OF 40



ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:

**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:

**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

EDMON O. LACAULAN
Project Engineer

Checked by:

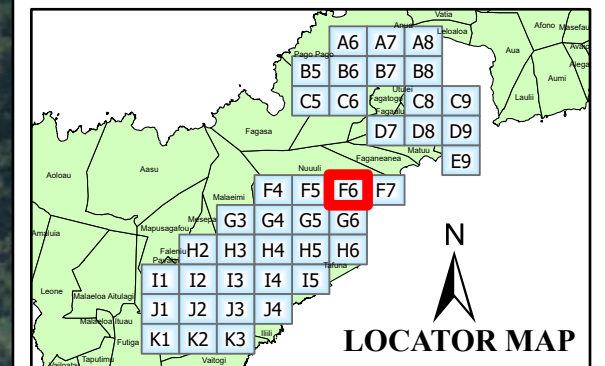
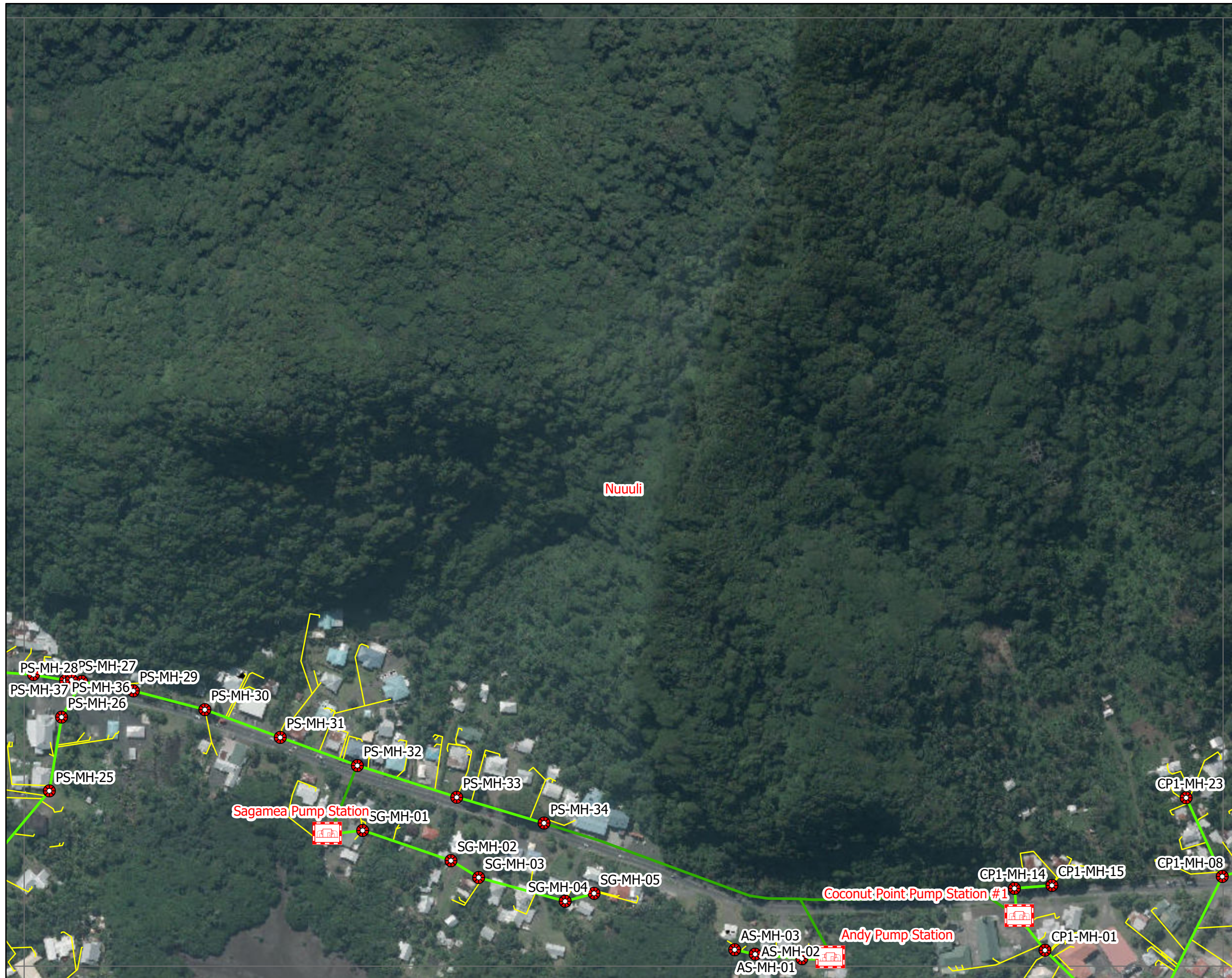
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:

WILLIAM SPITZENBERG, P.E.
ESD Manager

Issue for: **REFERENCE ONLY**

Date: 9/30/2019



Legend

- SEWER GRAVITY MAINS
- SEWER LATERALS
- SEWER FORCEMAIN
- station_flowmeter_updated
- MH_for_INFLOWprotector
- tut_villages

0 55 110 220 330 440 Feet

SHEET NO.
F6
PAGE 18 OF 40



ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:
**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:
**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

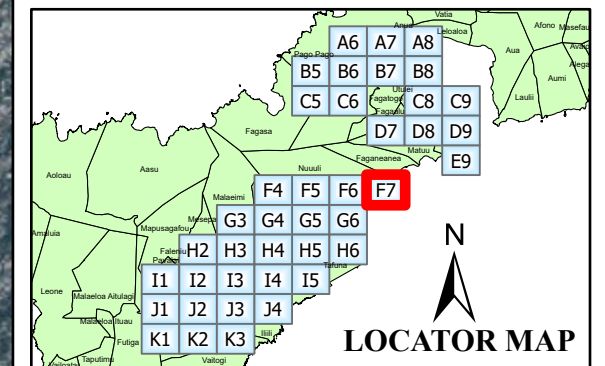
Drawing Title:
**RAIN GUARD
INSTALLATION MAP**

Prepared by:
EDMON O. LACAULAN
Project Engineer

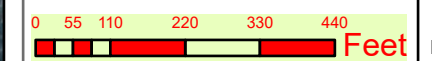
Checked by:
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:
WILLIAM SPITZENBERG, P.E.
ESD Manager

Issue for: **REFERENCE ONLY**
Date: 9/30/2019



- Legend
- SEWER GRAVITY MAINS
 - SEWER LATERALS
 - SEWER FORCEMAIN
 - station_flowmeter_updated
 - MH_for_INFLOWprotector
 - tut_villages



SHEET NO.
F7
PAGE 19 OF 40



ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:

**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:

**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

EDMON O. LACAULAN
Project Engineer

Checked by:

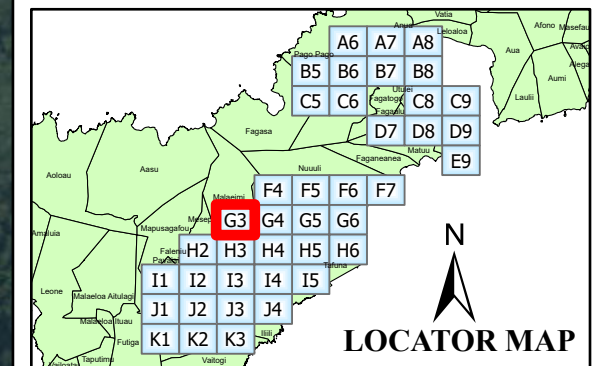
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:

WILLIAM SPITZENBERG, P.E.
ESD Manager

Issue for: **REFERENCE ONLY**

Date: 9/30/2019



Legend

- SEWER GRAVITY MAINS
- SEWER LATERALS
- SEWER FORCEMAIN
- station_flowmeter_updated
- MH_for_INFLOWprotector
- tut_villages

0 55 110 220 330 440 Feet

SHEET NO.
G3
PAGE 20 OF 40



ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:
**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:
**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

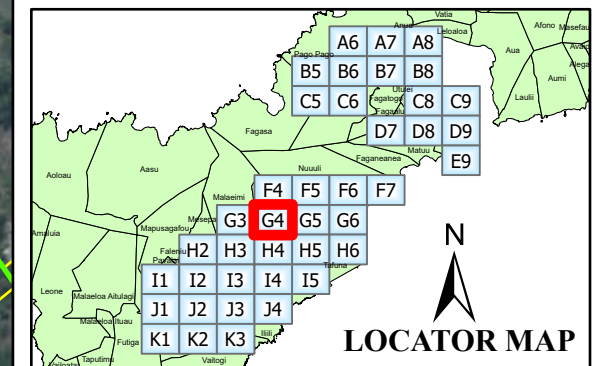
Drawing Title:
**RAIN GUARD
INSTALLATION MAP**

Prepared by:
EDMON O. LACAULAN
Project Engineer

Checked by:
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:
WILLIAM SPITZENBERG, P.E.
ESD Manager

Issue for: **REFERENCE ONLY**
Date: 9/30/2019

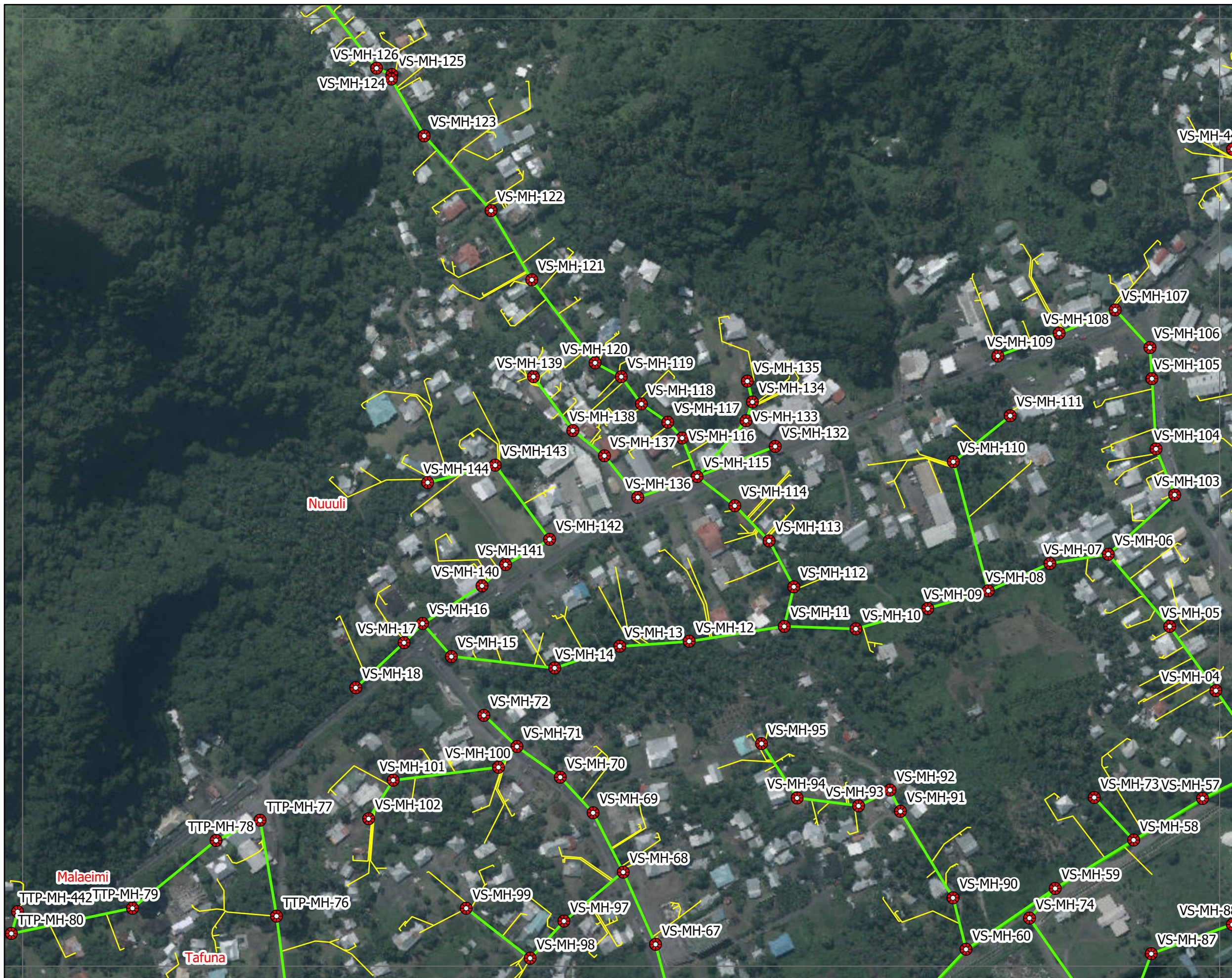


Legend

- SEWER GRAVITY MAINS
- SEWER LATERALS
- SEWER FORCEMAIN
- station_flowmeter_updated
- MH_for_INFLOWprotector
- tut_villages

0 55 110 220 330 440 Feet

SHEET NO.
G4
PAGE 21 OF 40





ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:

**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:

**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

EDMON O. LACAULAN
Project Engineer

Checked by:

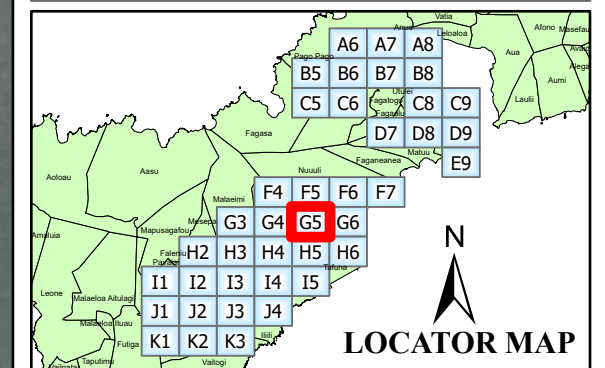
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:

WILLIAM SPITZENBERG, P.E.
ESD Manager

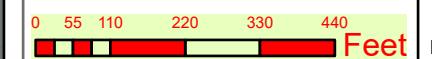
Issue for: **REFERENCE ONLY**

Date: 9/30/2019



Legend

- SEWER GRAVITY MAINS
- SEWER LATERALS
- SEWER FORCEMAIN
- station_flowmeter_updated
- MH_for_INFLOWprotector
- tut_villages



SHEET NO.

G5

PAGE 22 OF 40



ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:
**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:
**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

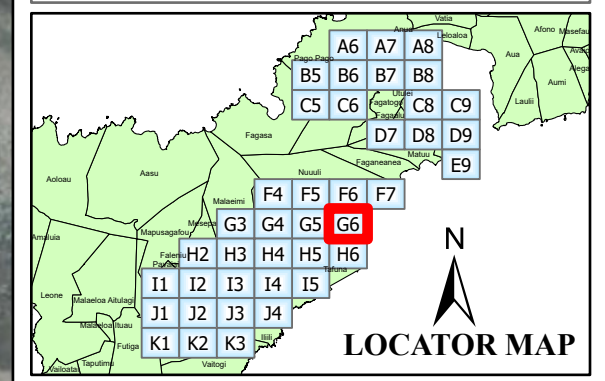
Drawing Title:
**RAIN GUARD
INSTALLATION MAP**

Prepared by:
EDMON O. LACAULAN
Project Engineer

Checked by:
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:
WILLIAM SPITZENBERG, P.E.
ESD Manager

Issue for: **REFERENCE ONLY**
Date: 9/30/2019



Legend

- SEWER GRAVITY MAINS
- SEWER LATERALS
- SEWER FORCEMAIN
- station_flowmeter_updated
- MH_for_INFLOWprotector
- tut_villages

0 55 110 220 330 440 Feet

SHEET NO.
G6
PAGE 23 OF 40



ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:
**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:
**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

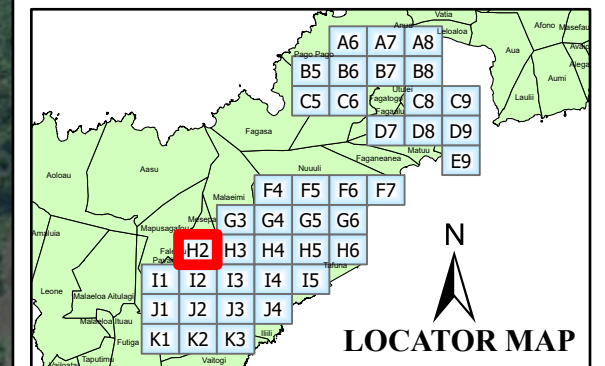
Drawing Title:
**RAIN GUARD
INSTALLATION MAP**

Prepared by:
EDMON O. LACAULAN
Project Engineer

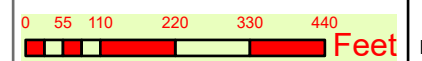
Checked by:
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:
WILLIAM SPITZENBERG, P.E.
ESD Manager

Issue for: **REFERENCE ONLY**
Date: 9/30/2019



- Legend
- SEWER GRAVITY MAINS
 - SEWER LATERALS
 - SEWER FORCEMAIN
 - station_flowmeter_updated
 - MH_for_INFLOWprotector
 - tut_villages



SHEET NO.
H2
PAGE 24 OF 40





ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:

**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:

**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

EDMON O. LACAULAN
Project Engineer

Checked by:

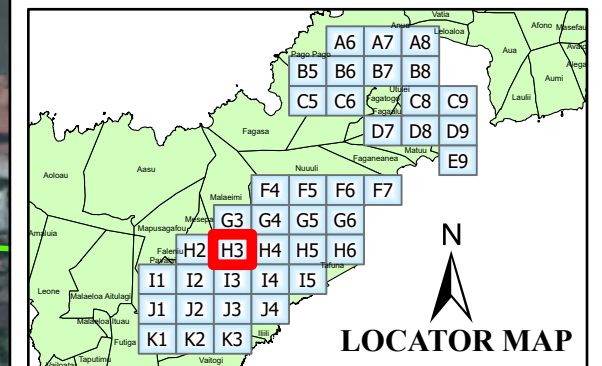
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:

WILLIAM SPITZENBERG, P.E.
ESD Manager

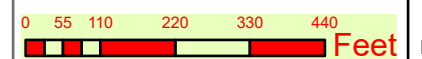
Issue for: **REFERENCE ONLY**

Date: 9/30/2019



Legend

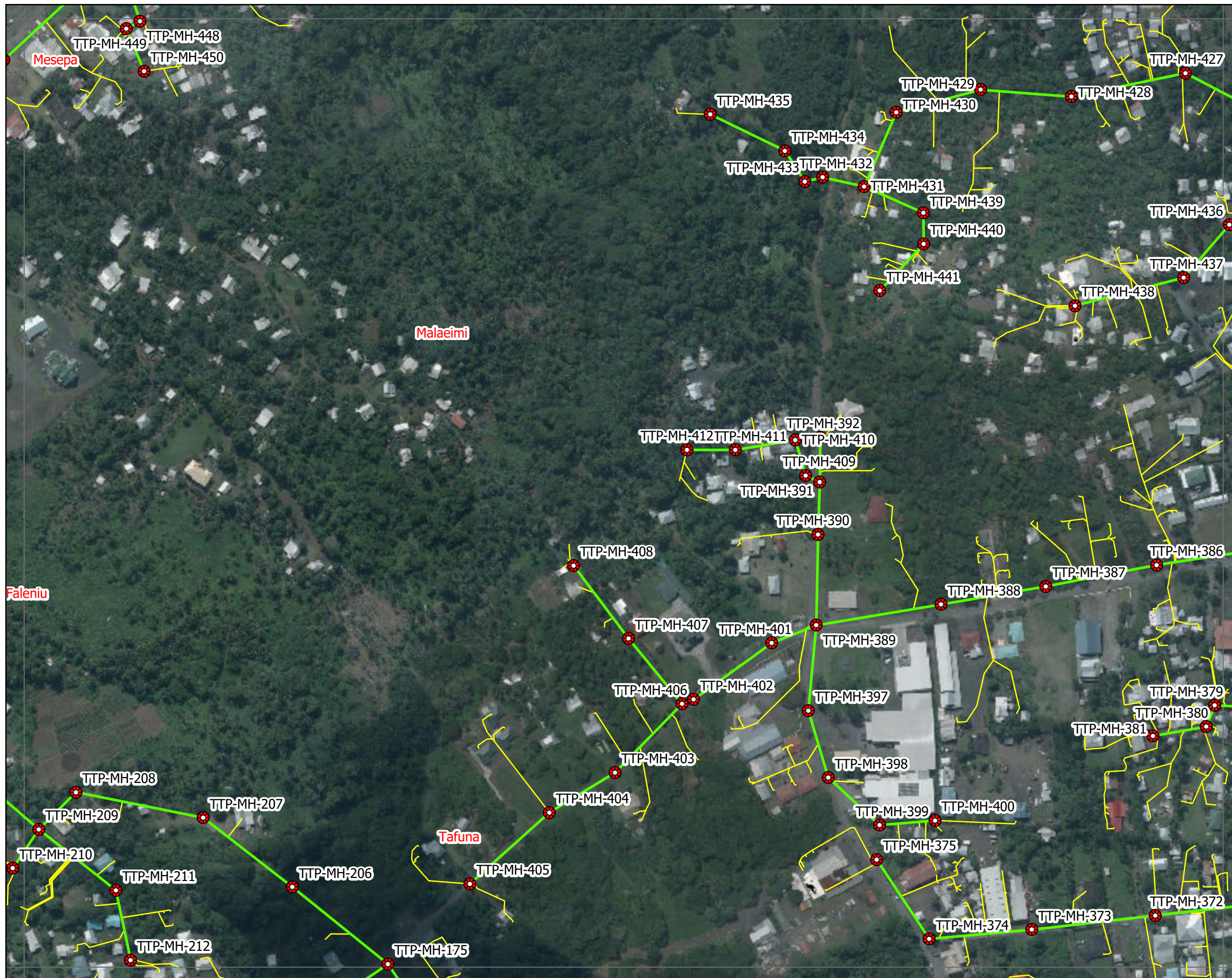
- SEWER GRAVITY MAINS
- SEWER LATERALS
- SEWER FORCEMAIN
- station_flowmeter_updated
- MH_for_INFLOWprotector
- tut_villages



SHEET NO.

H3

PAGE 25 OF 40





ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:
**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:
**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

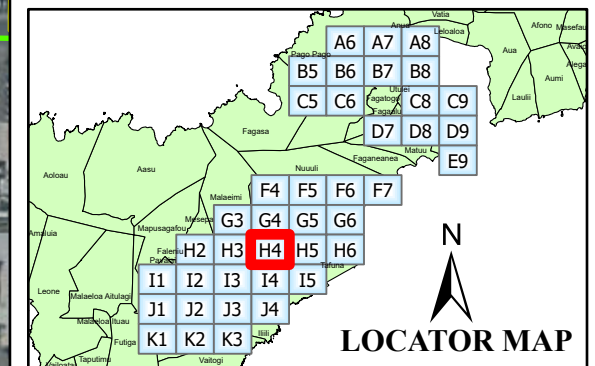
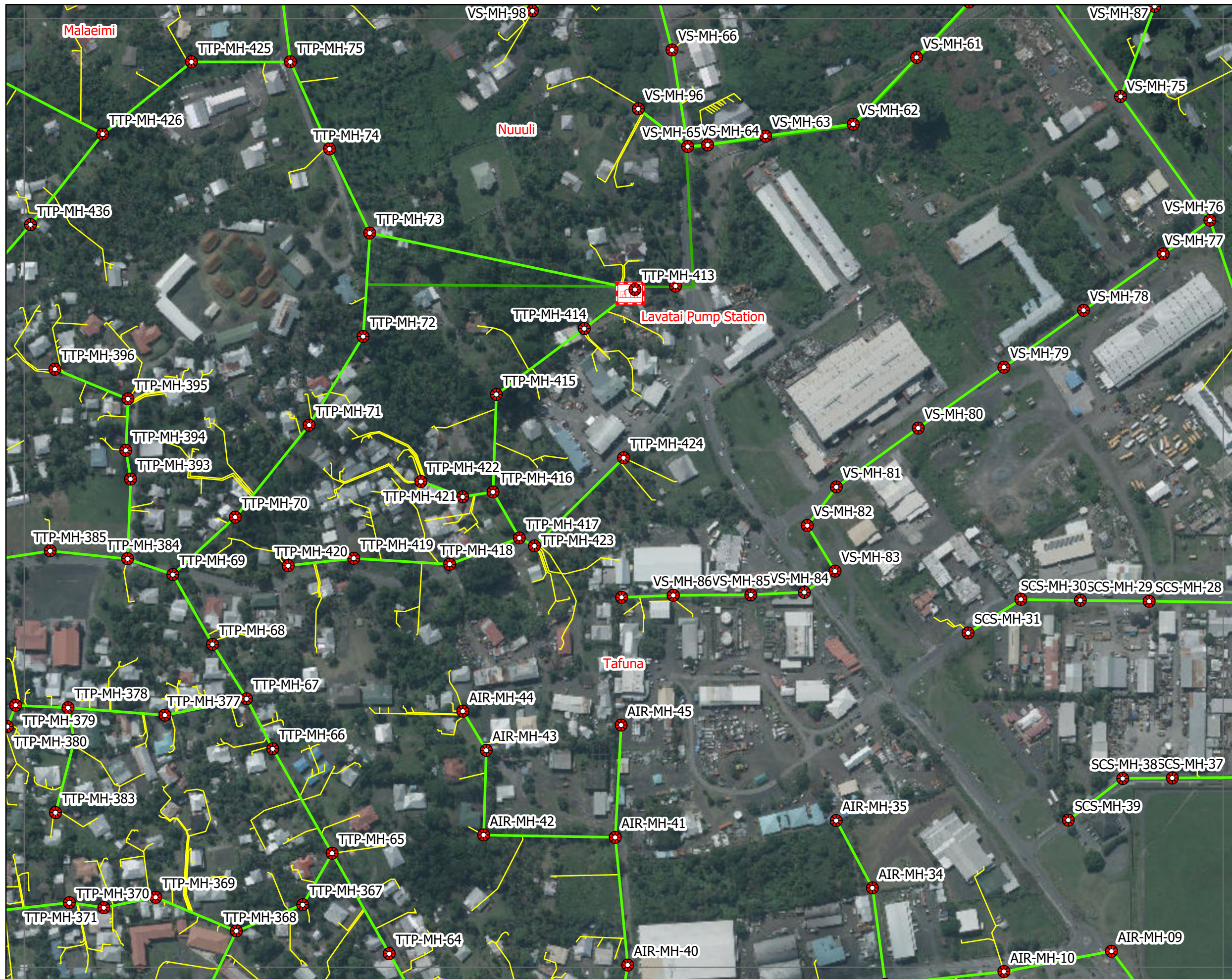
Drawing Title:
**RAIN GUARD
INSTALLATION MAP**

Prepared by:
EDMON O. LACAULAN
Project Engineer

Checked by:
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:
WILLIAM SPITZENBERG, P.E.
ESD Manager

Issue for: **REFERENCE ONLY**
Date: 9/30/2019



Legend

- SEWER GRAVITY MAINS
- SEWER LATERALS
- SEWER FORCEMAIN
- station_flowmeter_updated
- MH_for_INFLOWprotector
- tut_villages

0 55 110 220 330 440 Feet

SHEET NO.
H4
PAGE 26 OF 40



ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:

**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:

**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

EDMON O. LACAULAN
Project Engineer

Checked by:

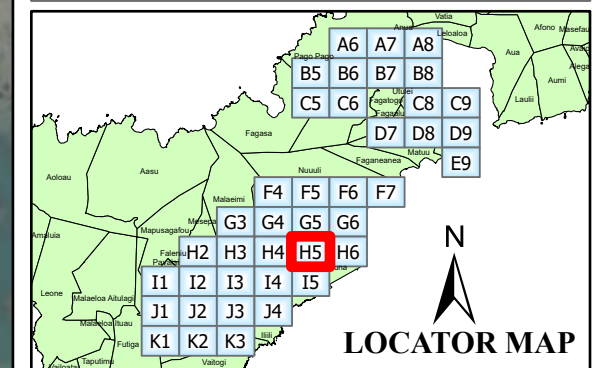
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:

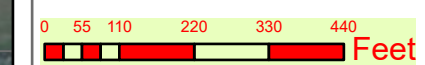
WILLIAM SPITZENBERG, P.E.
ESD Manager

Issue for: **REFERENCE ONLY**

Date: 9/30/2019



- Legend
- SEWER GRAVITY MAINS
 - SEWER LATERALS
 - SEWER FORCEMAIN
 - station_flowmeter_updated
 - MH_for_INFLOWprotector
 - tut_villages



SHEET NO.
H5
PAGE 27 OF 40



ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:
**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:
**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

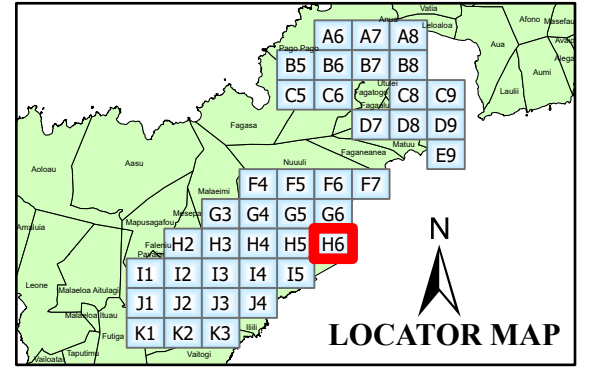
Drawing Title:
**RAIN GUARD
INSTALLATION MAP**

Prepared by:
EDMON O. LACAULAN
Project Engineer

Checked by:
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:
WILLIAM SPITZENBERG, P.E.
ESD Manager

Issue for: **REFERENCE ONLY**
Date: 9/30/2019



Legend

- SEWER GRAVITY MAINS
- SEWER LATERALS
- SEWER FORCEMAIN
- station_flowmeter_updated
- MH_for_INFLOWprotector
- tut_villages

Scale: 0 55 110 220 330 440 Feet

SHEET NO.
H6
PAGE 28 OF 40



ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:

**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:

**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

EDMON O. LACAULAN
Project Engineer

Checked by:

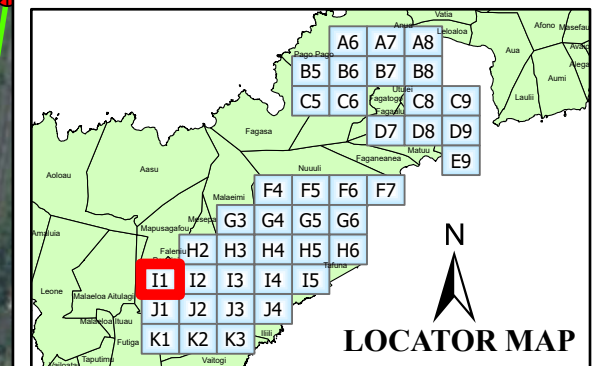
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:

WILLIAM SPITZENBERG, P.E.
ESD Manager

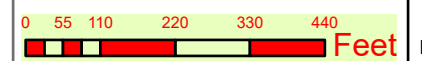
Issue for: **REFERENCE ONLY**

Date: 9/30/2019



Legend

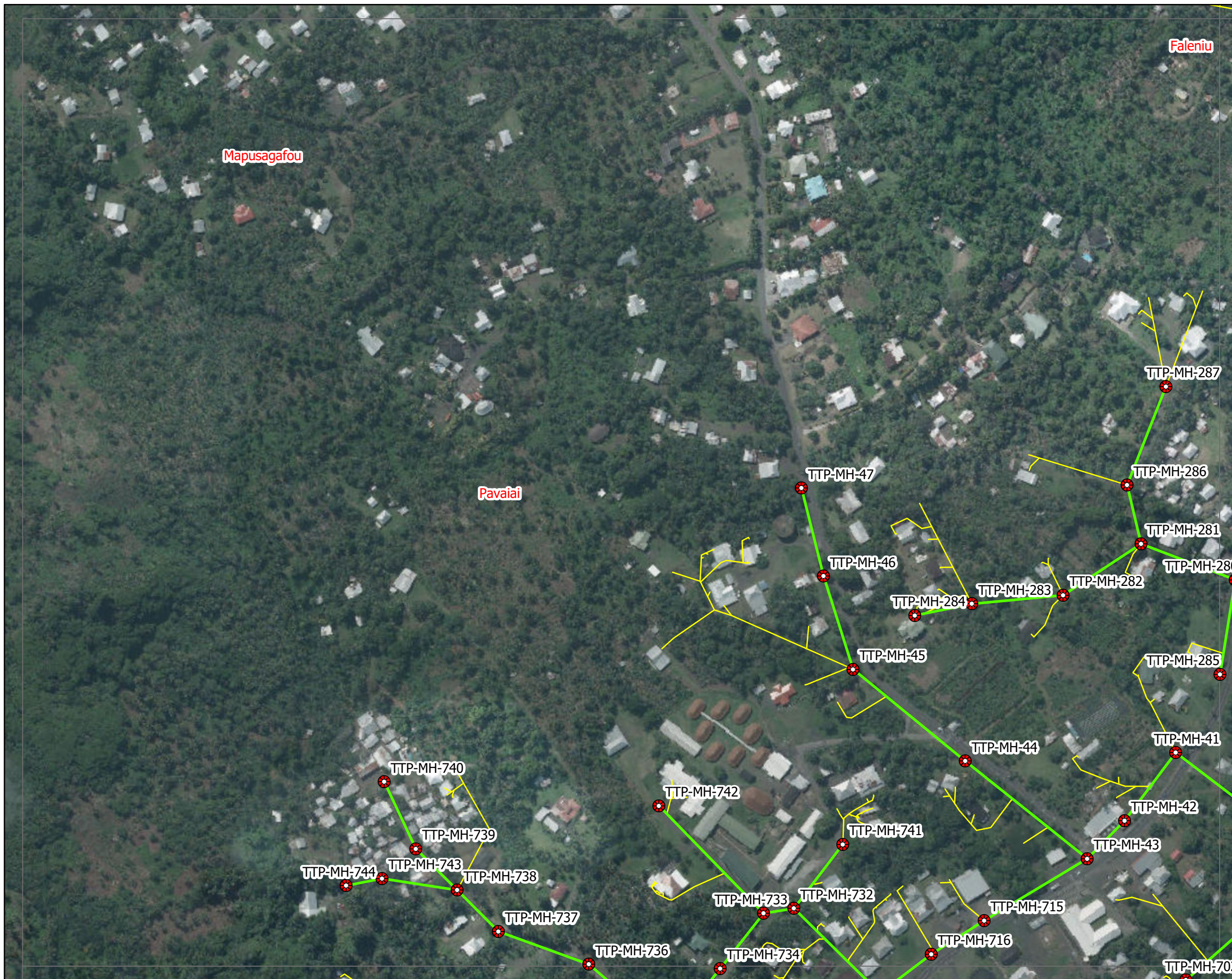
- SEWER GRAVITY MAINS
- SEWER LATERALS
- SEWER FORCEMAIN
- station_flowmeter_updated
- MH_for_INFLOWprotector
- tut_villages



SHEET NO.

I1

PAGE 29 OF 40





ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:

**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:

**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

EDMON O. LACAULAN
Project Engineer

Checked by:

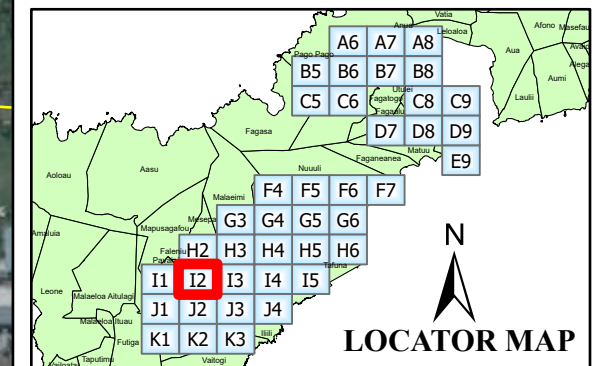
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:

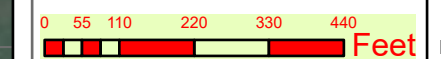
WILLIAM SPITZENBERG, P.E.
ESD Manager

Issue for: **REFERENCE ONLY**

Date: 9/30/2019



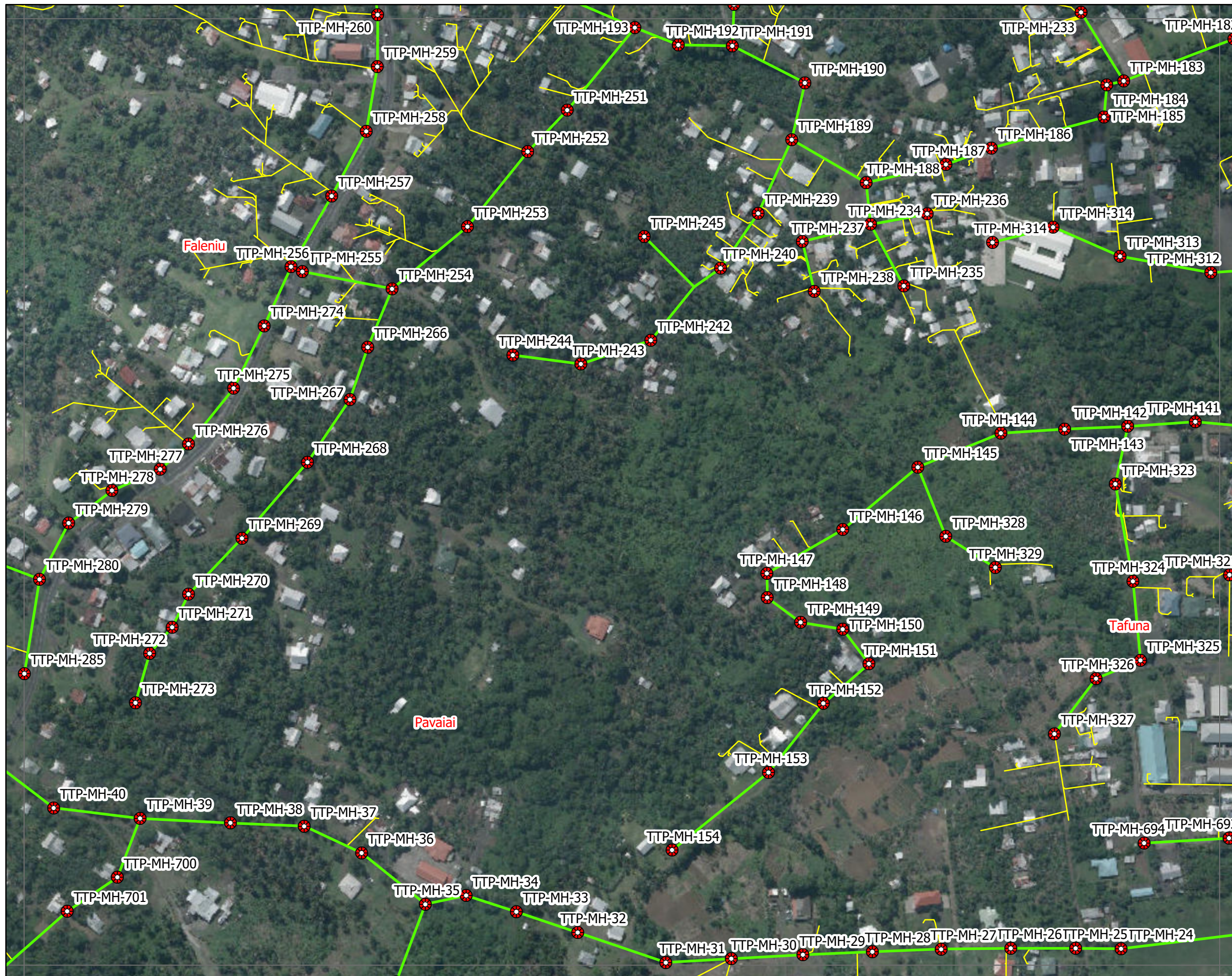
- Legend
- SEWER GRAVITY MAINS
 - SEWER LATERALS
 - SEWER FORCEMAIN
 - station_flowmeter_updated
 - MH_for_INFLOWprotector
 - tut_villages



SHEET NO.

I2

PAGE 30 OF 40





ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:

**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:

**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

EDMON O. LACAULAN
Project Engineer

Checked by:

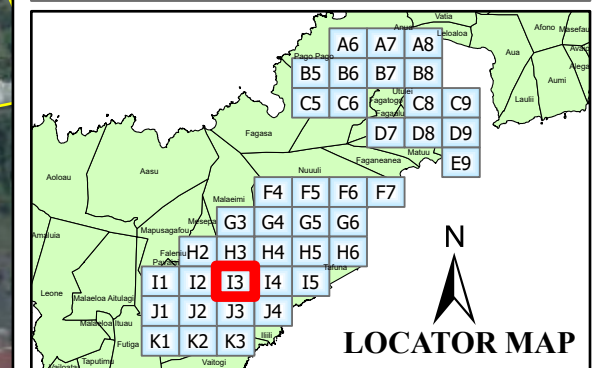
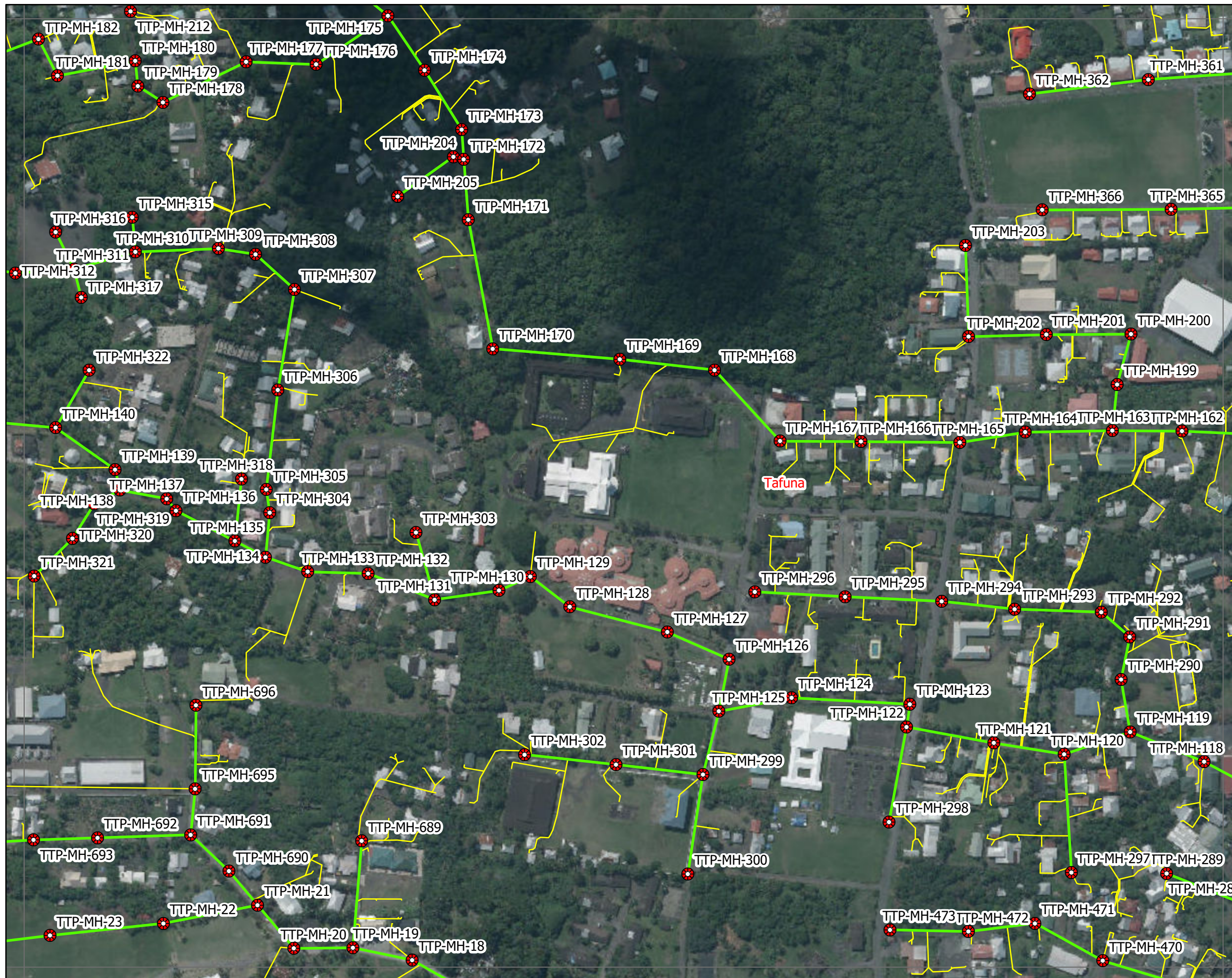
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:

WILLIAM SPITZENBERG, P.E.
ESD Manager

Issue for: **REFERENCE ONLY**

Date: 9/30/2019



Legend

- SEWER GRAVITY MAINS
- SEWER LATERALS
- SEWER FORCEMAIN
- station_flowmeter_updated
- MH_for_INFLOWprotector
- tut_villages

0 55 110 220 330 440 Feet

SHEET NO.
I3
PAGE 31 OF 40



ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:

**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:

**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

EDMON O. LACAULAN
Project Engineer

Checked by:

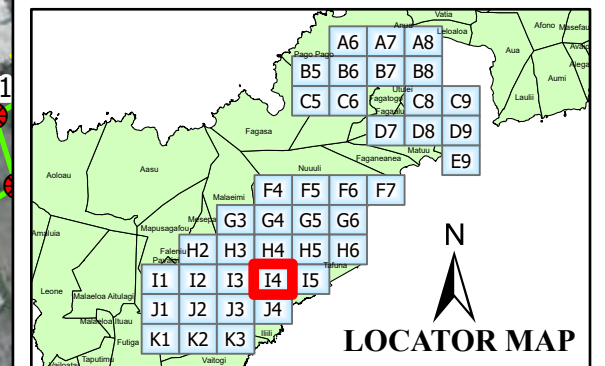
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:

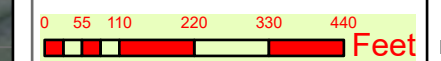
WILLIAM SPITZENBERG, P.E.
ESD Manager

Issue for: **REFERENCE ONLY**

Date: 9/30/2019



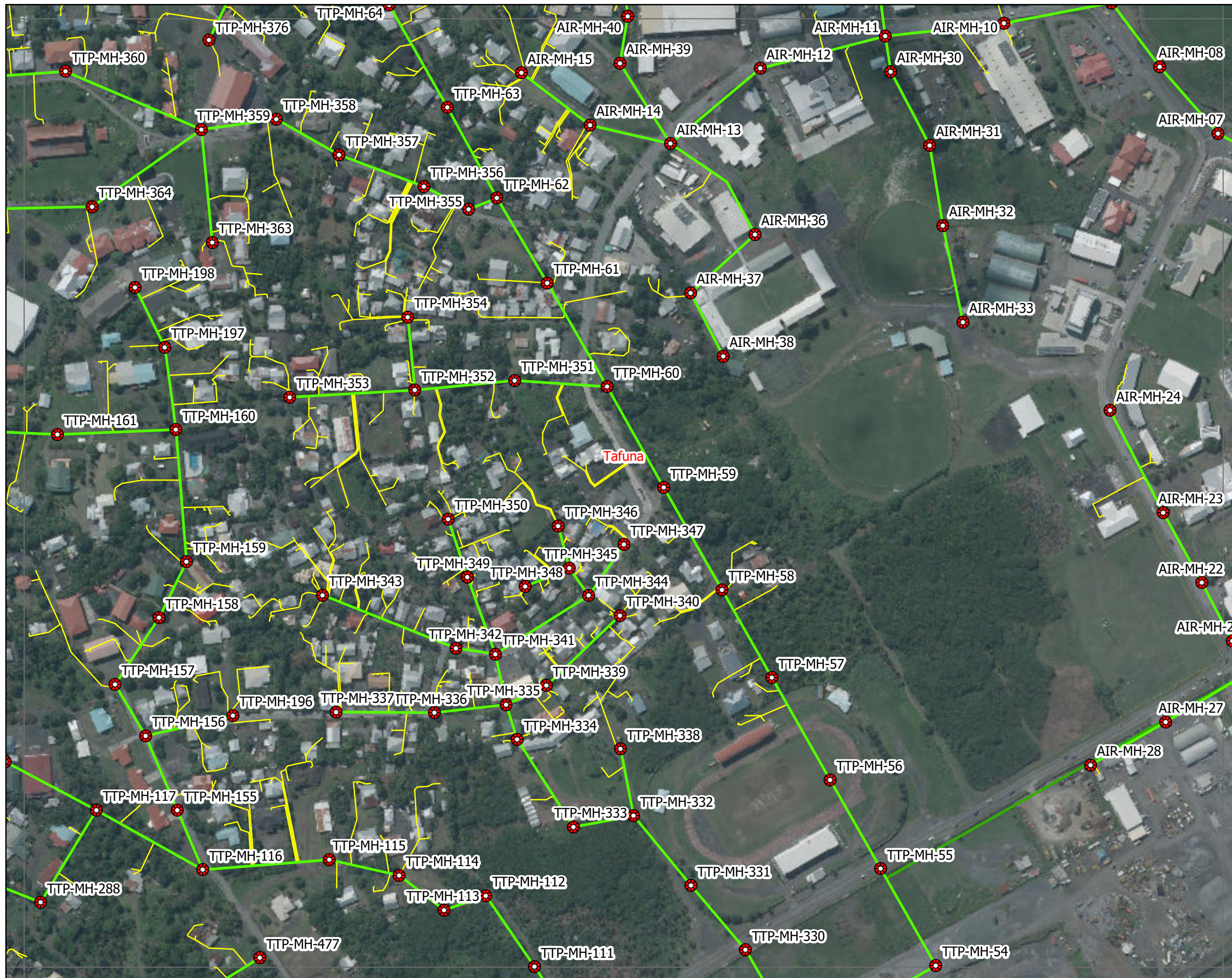
- Legend
- SEWER GRAVITY MAINS
 - SEWER LATERALS
 - SEWER FORCEMAIN
 - station_flowmeter_updated
 - MH_for_INFLOWprotector
 - tut_villages



SHEET NO.

I4

PAGE 32 OF 40





ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:

**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:

**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

EDMON O. LACAULAN
Project Engineer

Checked by:

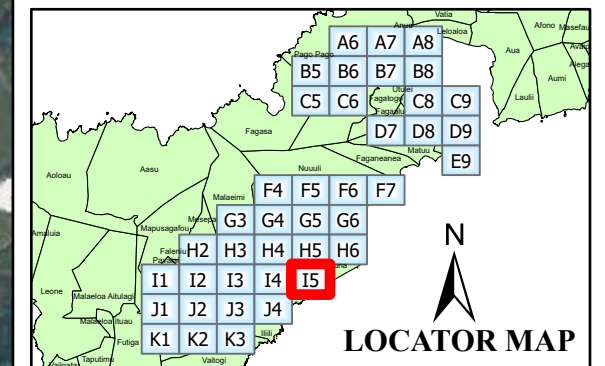
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:

WILLIAM SPITZENBERG, P.E.
ESD Manager

Issue for: **REFERENCE ONLY**

Date: 9/30/2019



Legend

- SEWER GRAVITY MAINS
- SEWER LATERALS
- SEWER FORCEMAIN
- station_flowmeter_updated
- MH_for_INFLOWprotector
- tut_villages

0 55 110 220 330 440 Feet

SHEET NO.
I5
PAGE 33 OF 40



ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:

**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:

**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

EDMON O. LACAULAN
Project Engineer

Checked by:

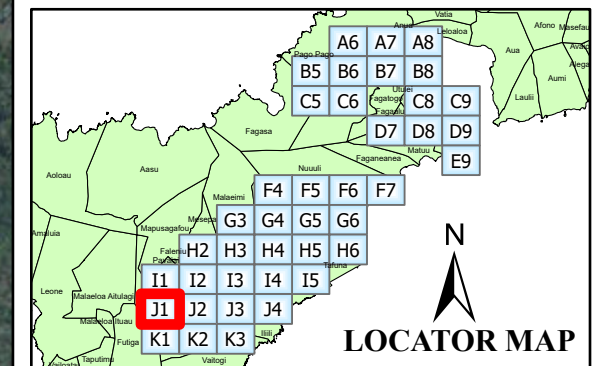
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:

WILLIAM SPITZENBERG, P.E.
ESD Manager

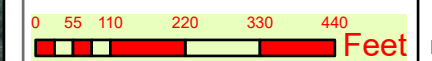
Issue for: **REFERENCE ONLY**

Date: 9/30/2019



Legend

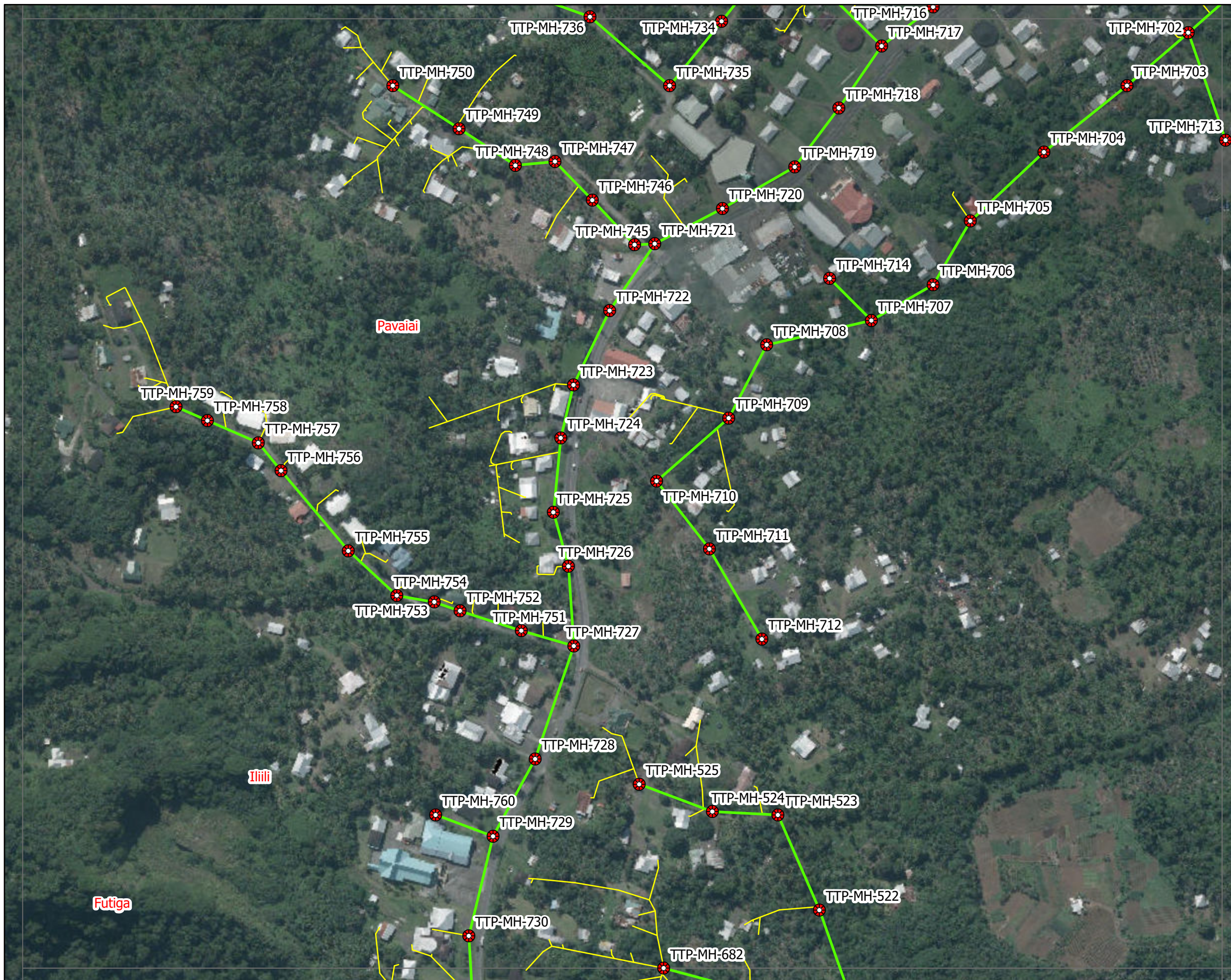
- SEWER GRAVITY MAINS
- SEWER LATERALS
- SEWER FORCEMAIN
- station_flowmeter_updated
- MH_for_INFLOWprotector
- tut_villages



SHEET NO.

J1

PAGE 34 OF 40





ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:

**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:

**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

EDMON O. LACAULAN
Project Engineer

Checked by:

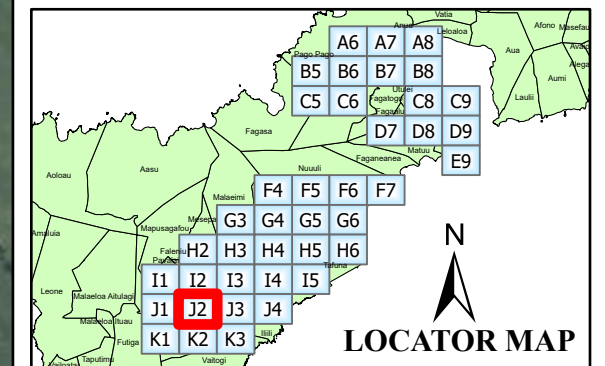
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:

WILLIAM SPITZENBERG, P.E.
ESD Manager

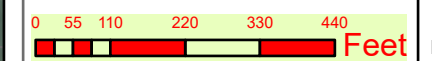
Issue for: **REFERENCE ONLY**

Date: 9/30/2019



Legend

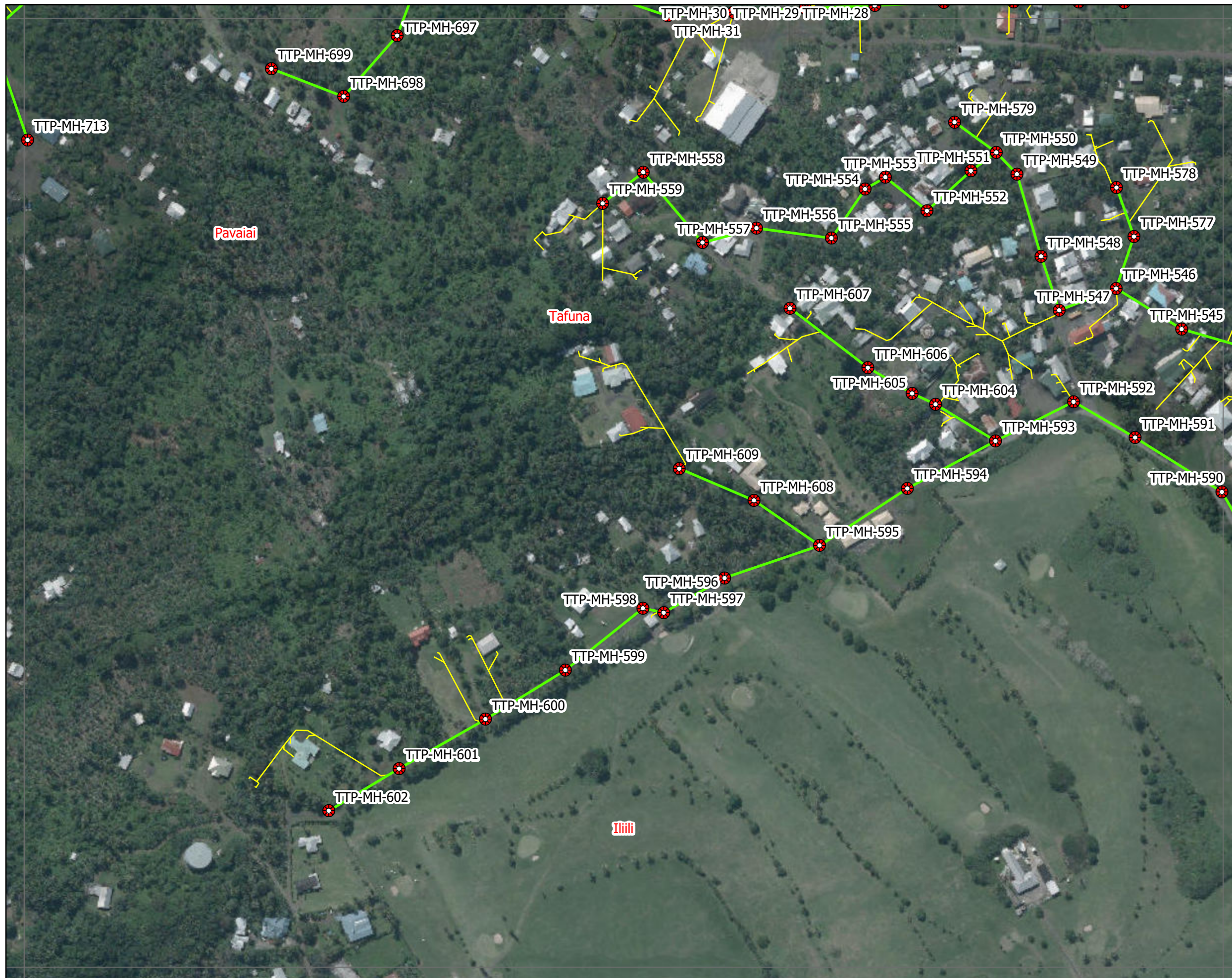
- SEWER GRAVITY MAINS
- SEWER LATERALS
- SEWER FORCEMAIN
- station_flowmeter_updated
- MH_for_INFLOWprotector
- tut_villages



SHEET NO.

J2

PAGE 35 OF 40





Project Name:
**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:
**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

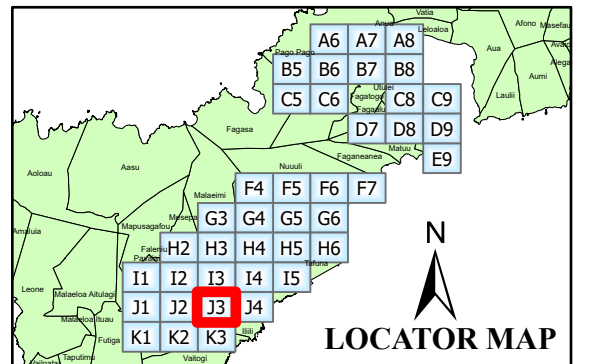
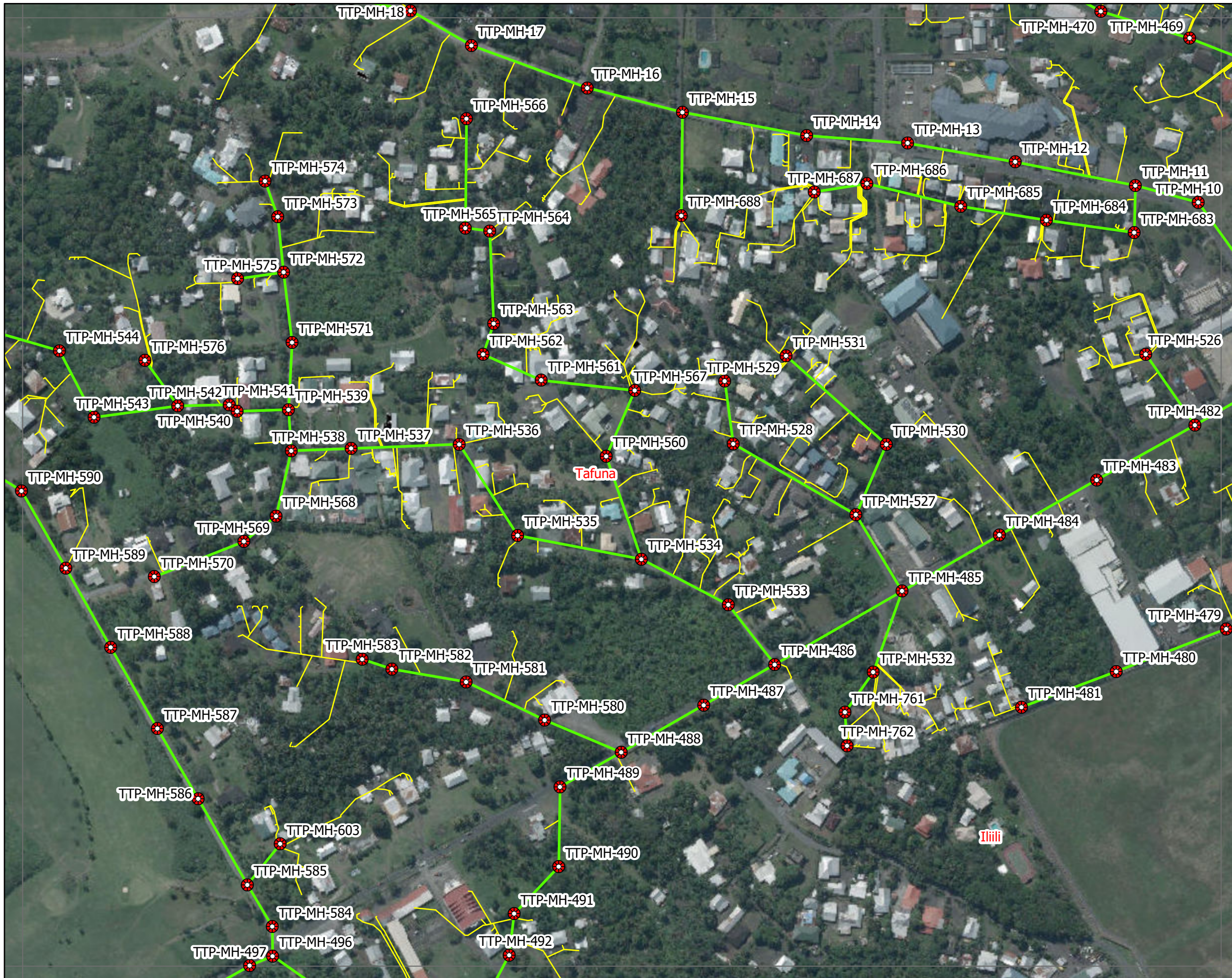
Drawing Title:
**RAIN GUARD
INSTALLATION MAP**

Prepared by:
EDMON O. LACAULAN
Project Engineer

Checked by:
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:
WILLIAM SPITZENBERG, P.E.
ESD Manager

Issue for: **REFERENCE ONLY**
Date: 9/30/2019



Legend

- SEWER GRAVITY MAINS
- SEWER LATERALS
- SEWER FORCEMAIN
- station_flowmeter_updated
- MH_for_INFLOWprotector
- tut_villages

0 55 110 220 330 440 Feet

SHEET NO.
J3
PAGE 36 OF 40



ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:
**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:
**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

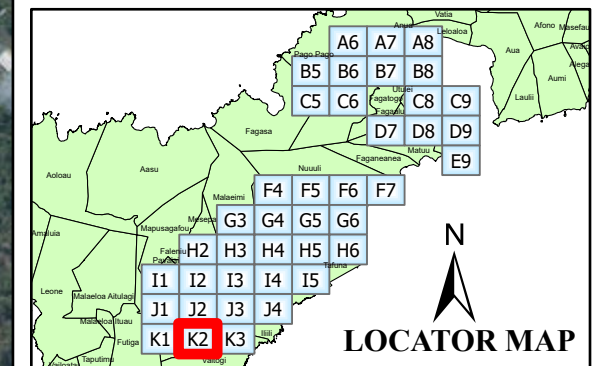
Drawing Title:
**RAIN GUARD
INSTALLATION MAP**

Prepared by:
EDMON O. LACAULAN
Project Engineer

Checked by:
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:
WILLIAM SPITZENBERG, P.E.
ESD Manager

Issue for: **REFERENCE ONLY**
Date: 9/30/2019

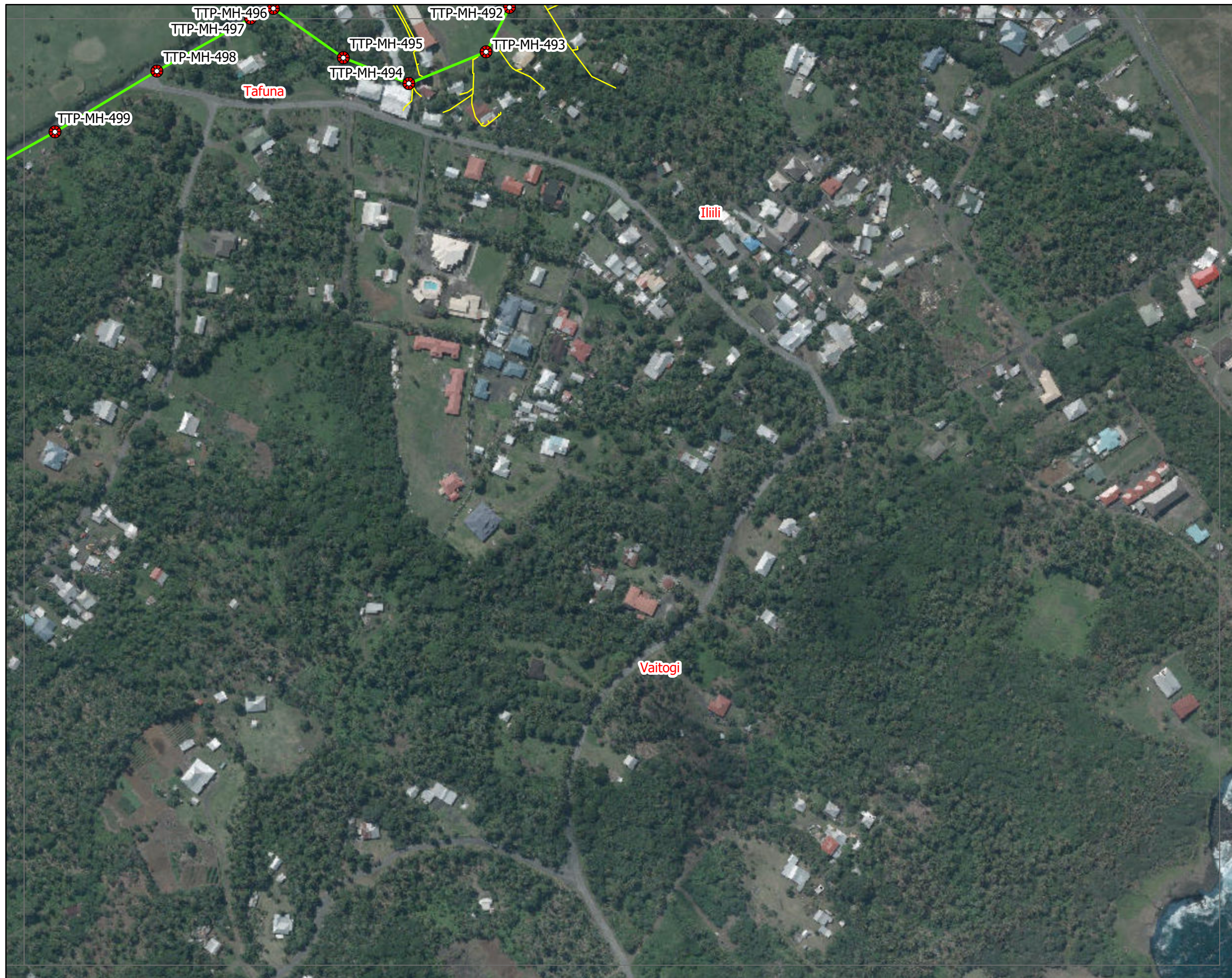


Legend

- SEWER GRAVITY MAINS
- SEWER LATERALS
- SEWER FORCEMAIN
- station_flowmeter_updated
- MH_for_INFLOWprotector
- tut_villages

0 55 110 220 330 440 Feet

SHEET NO.
K2
PAGE 39 OF 40



ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
P.O. BOX PPB, PAGO PAGO AM SAMOA 96799
TEL: (684) 699-1462, FAX: (684) 699-8075

Project Name:

**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:

**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

EDMON O. LACAULAN
Project Engineer

Checked by:

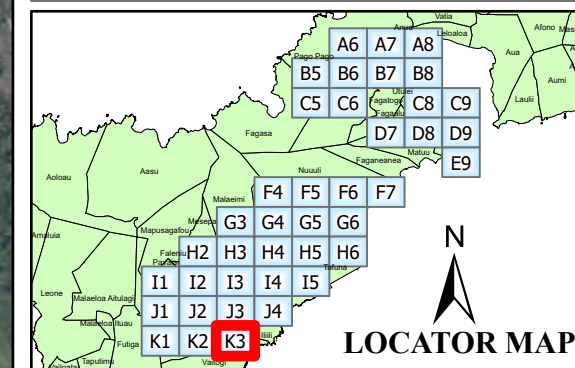
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:

WILLIAM SPITZENBERG, P.E.
ESD Manager

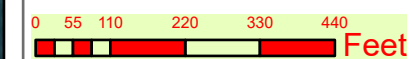
Issue for: **REFERENCE ONLY**

Date: 9/30/2019



Legend

- SEWER GRAVITY MAINS
- SEWER LATERALS
- SEWER FORCEMAIN
- station_flowmeter_updated
- MH_for_INFLOWprotector
- tut_villages



SHEET NO.

K3

PAGE 40 OF 40