



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:

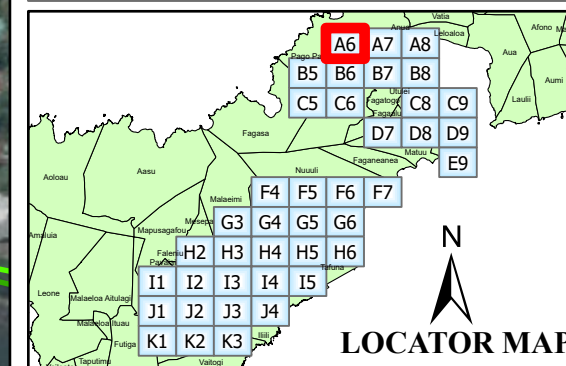
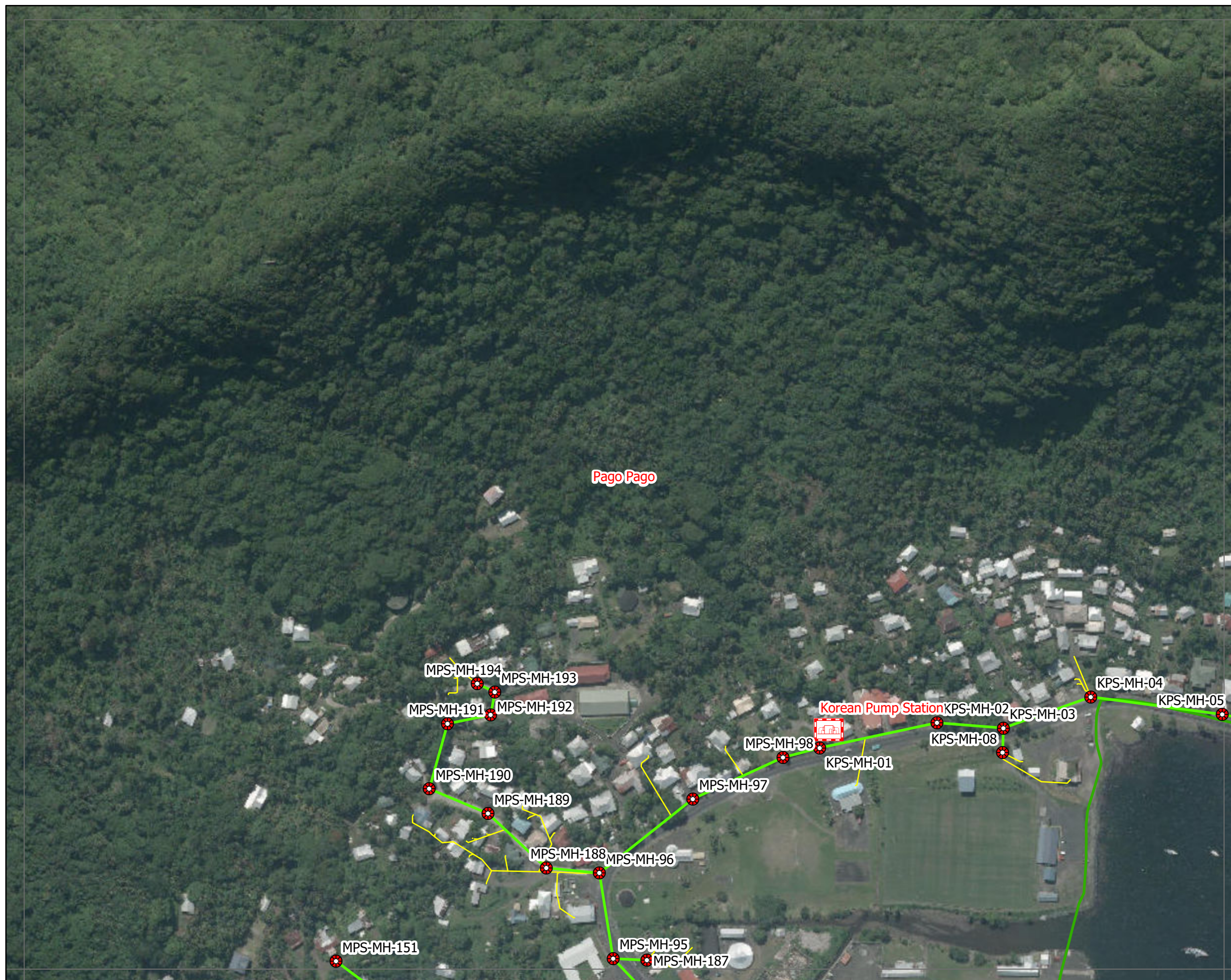
FIDEL AGUILA, C.E.
Senior Engineer

Approved by:

WILLIAM SPITZENBERG, P.E.
ESD Manager

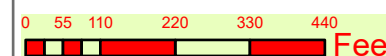
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Date: 9/30/2019



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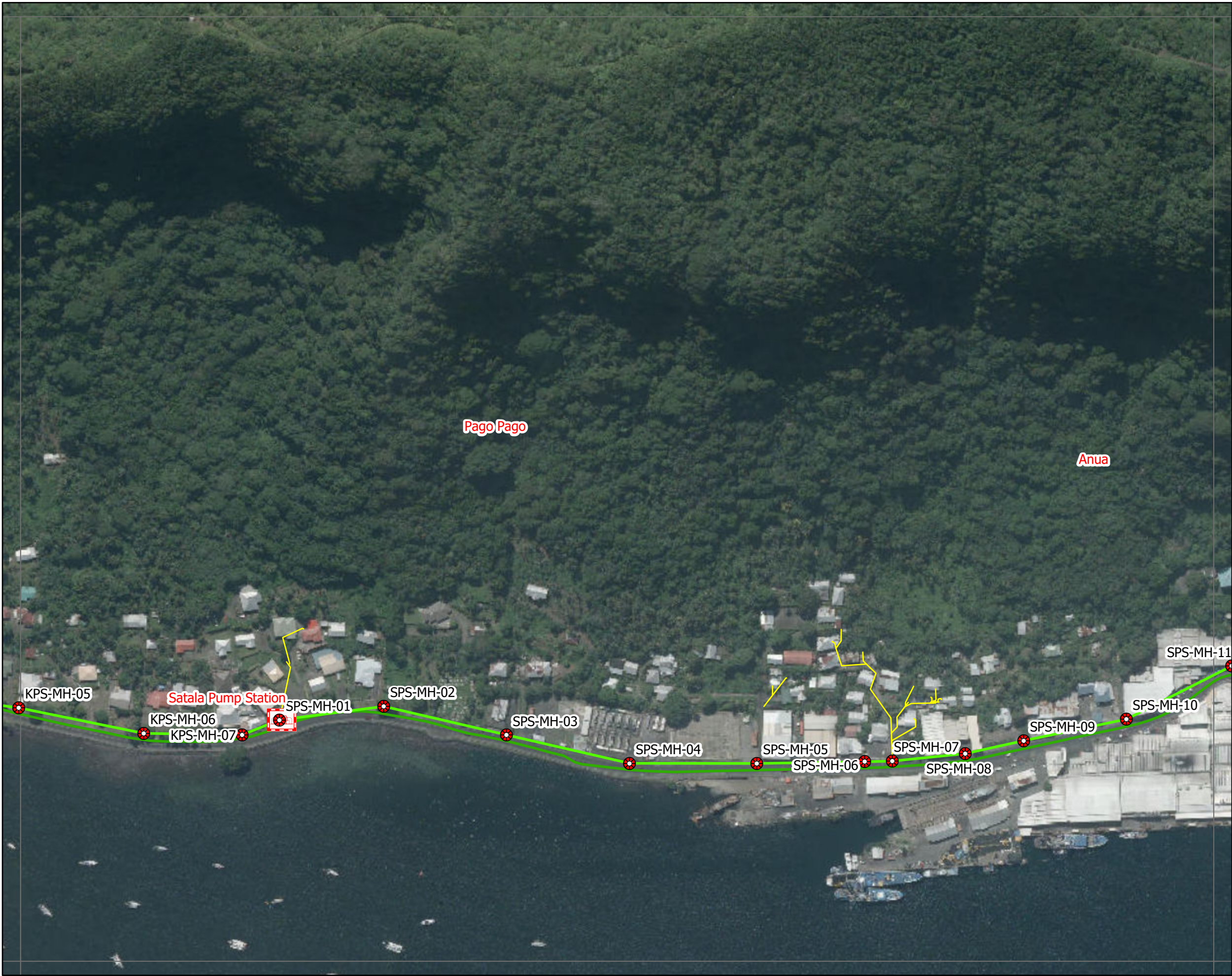
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- SEWER LATERALS
- SEWER FORCEMAIN
- station_flowmeter_updated
- MH_for_INFLOWprotector
- tut_villages



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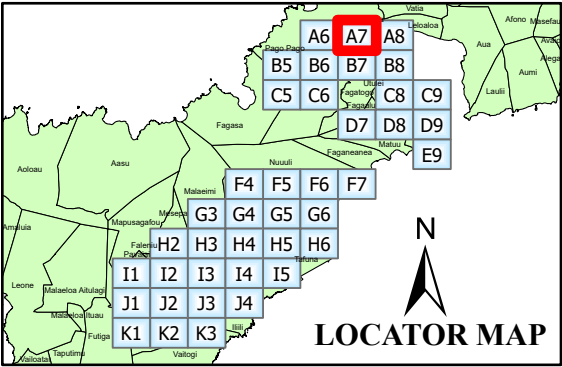
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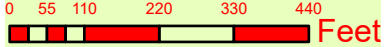
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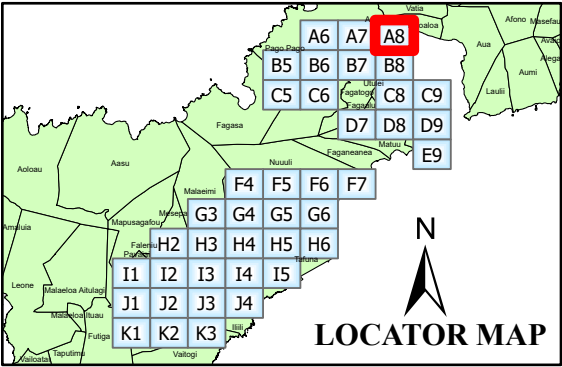
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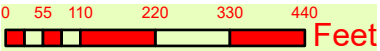
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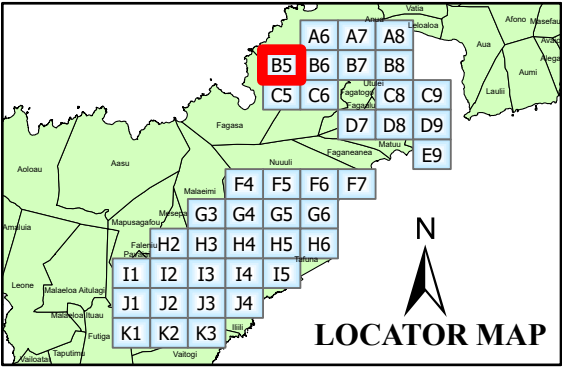
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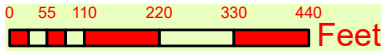
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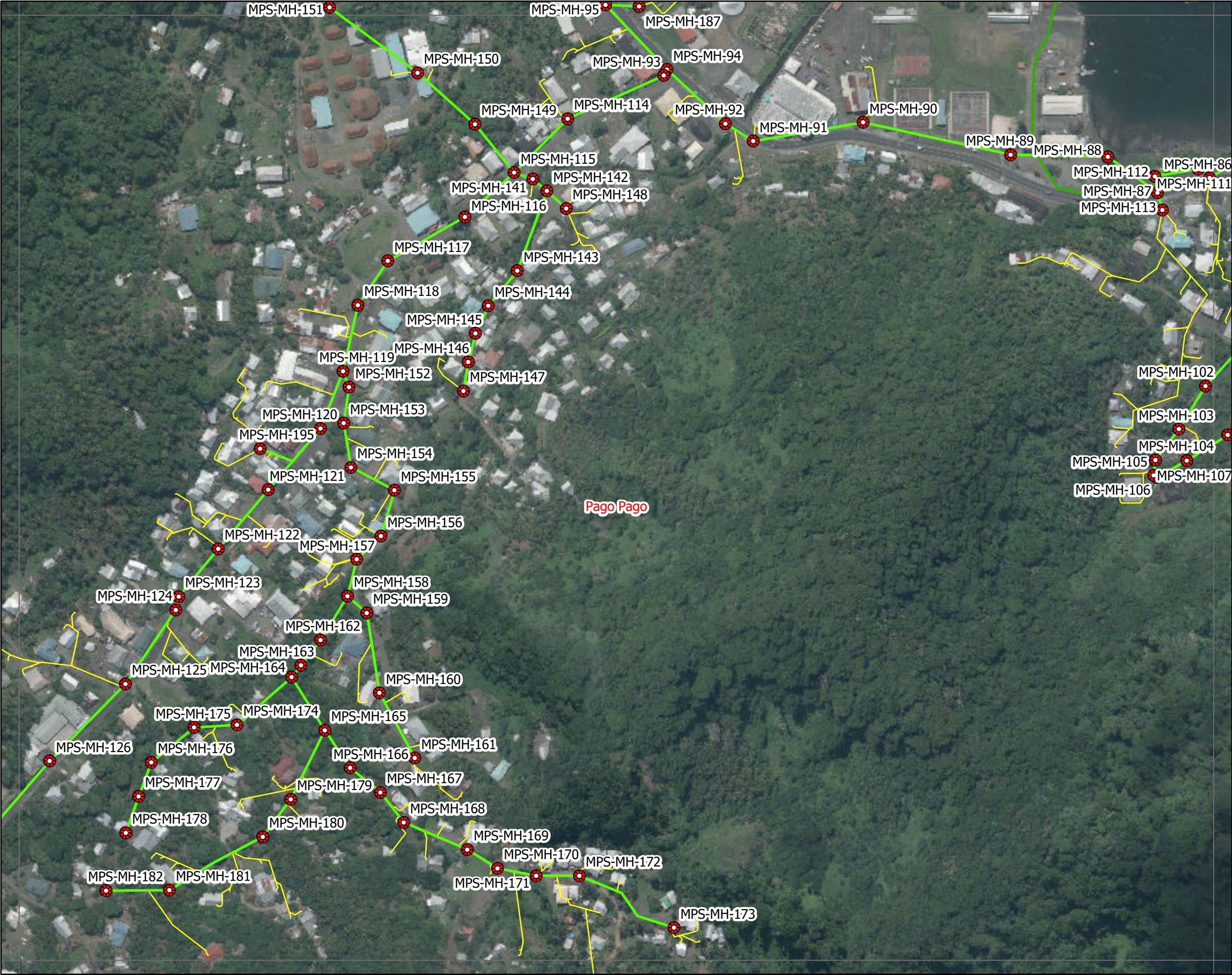
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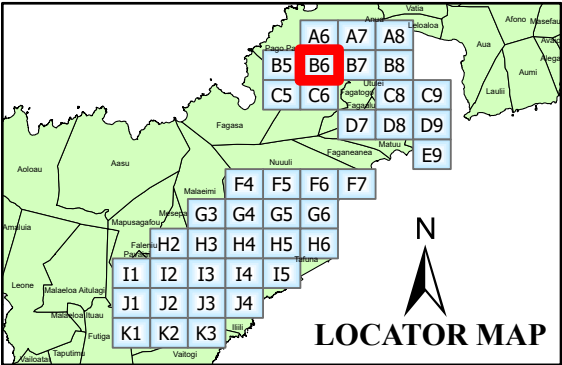
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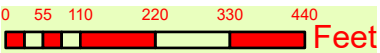
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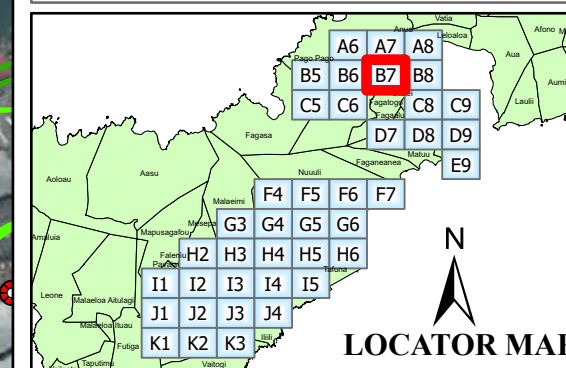
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0 55 110 220 330 440
Feet

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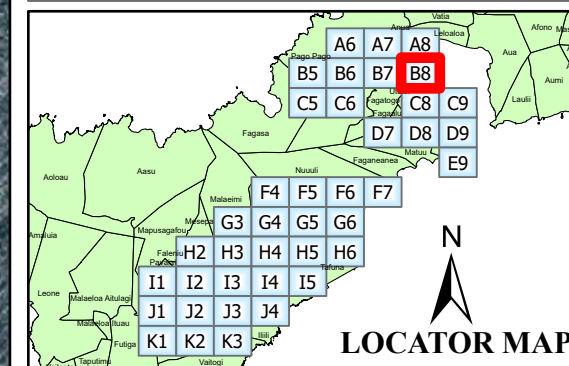
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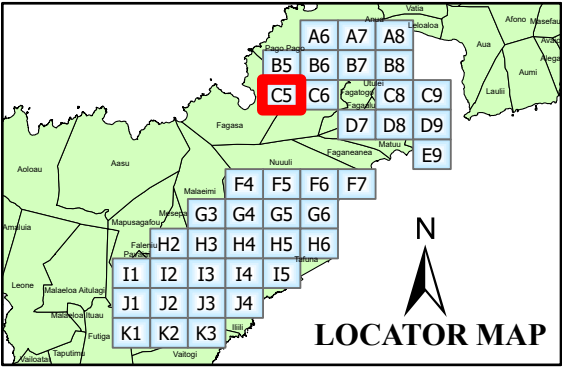
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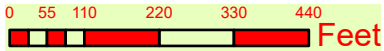
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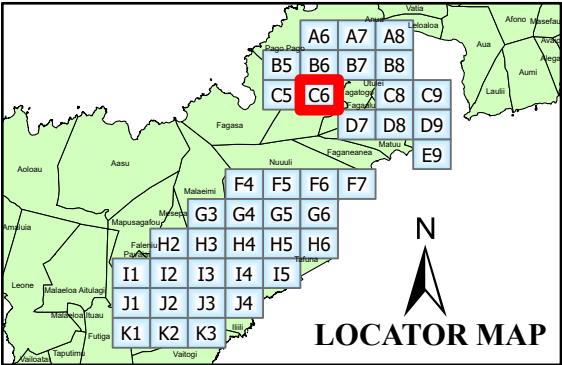
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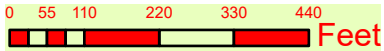
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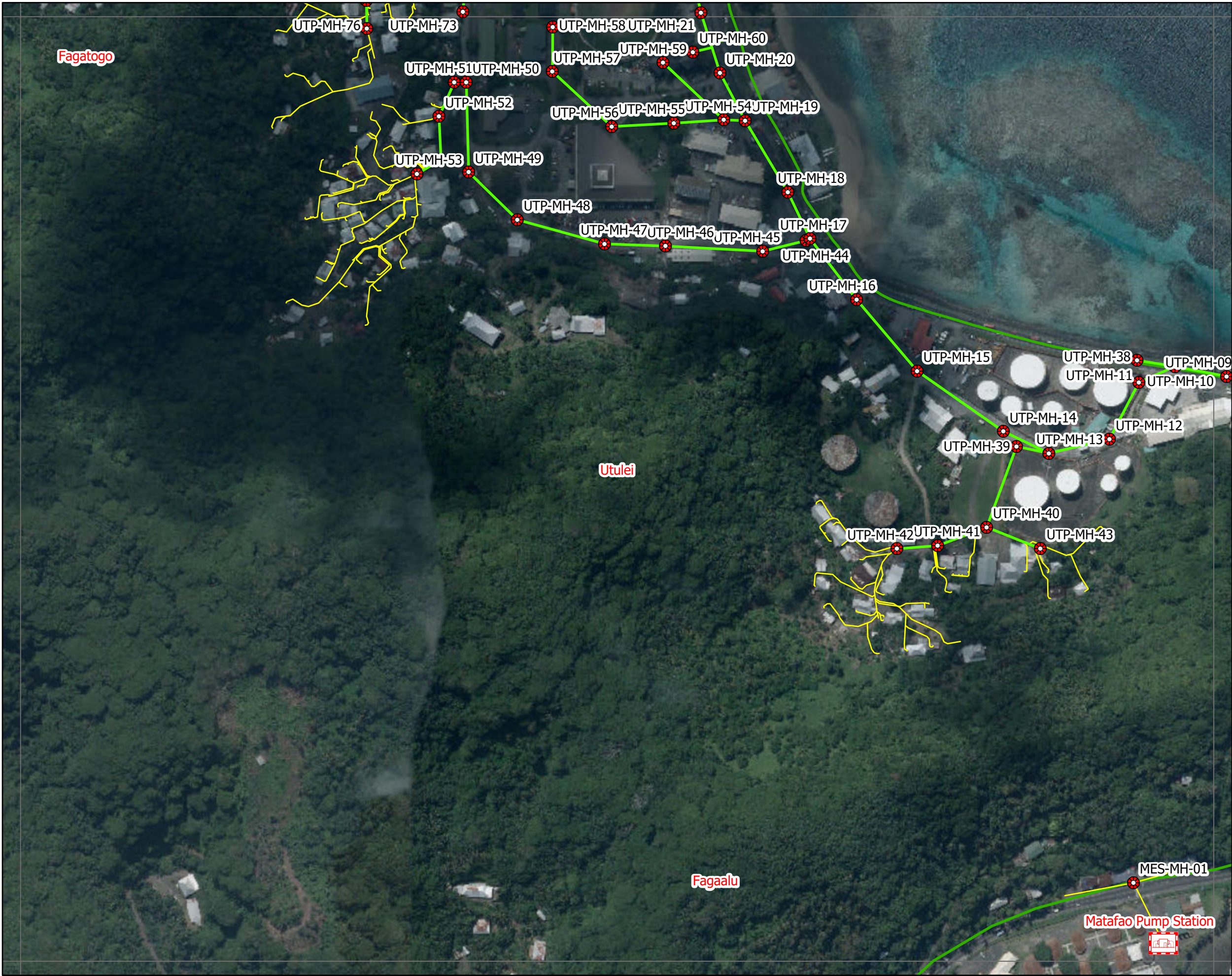
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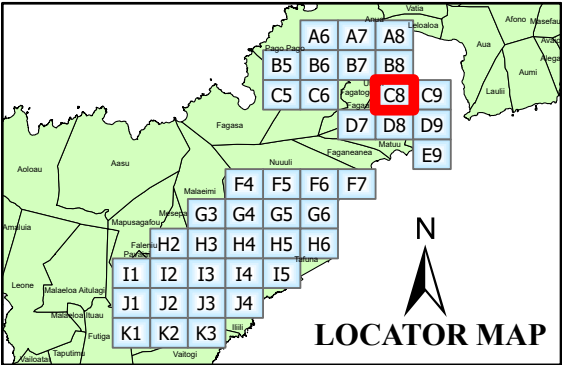
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0 55 110 220 330 440 Feet



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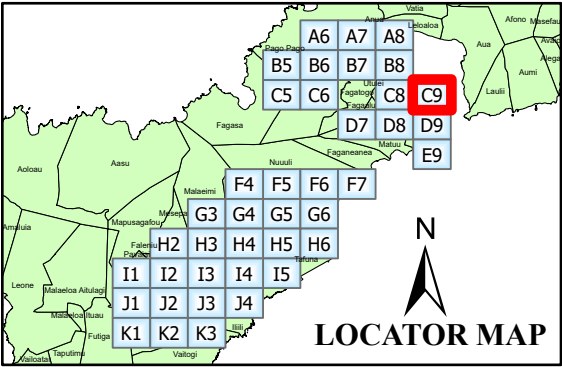
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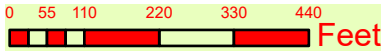
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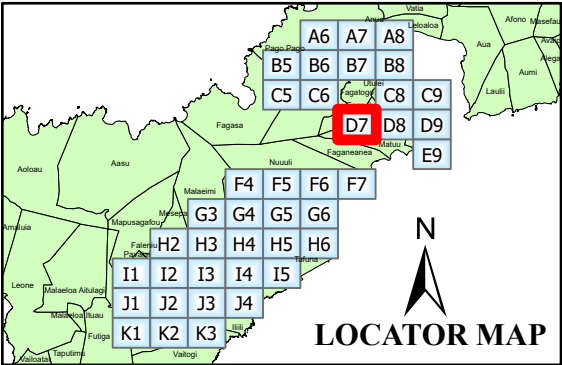
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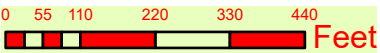
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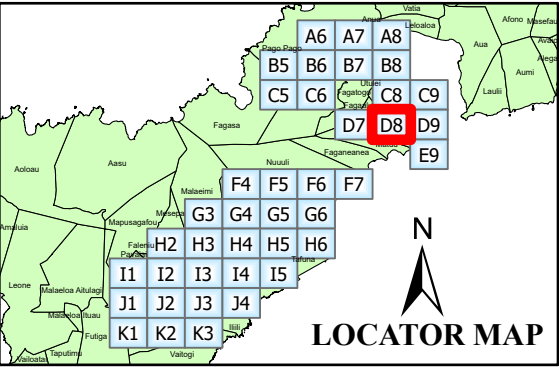
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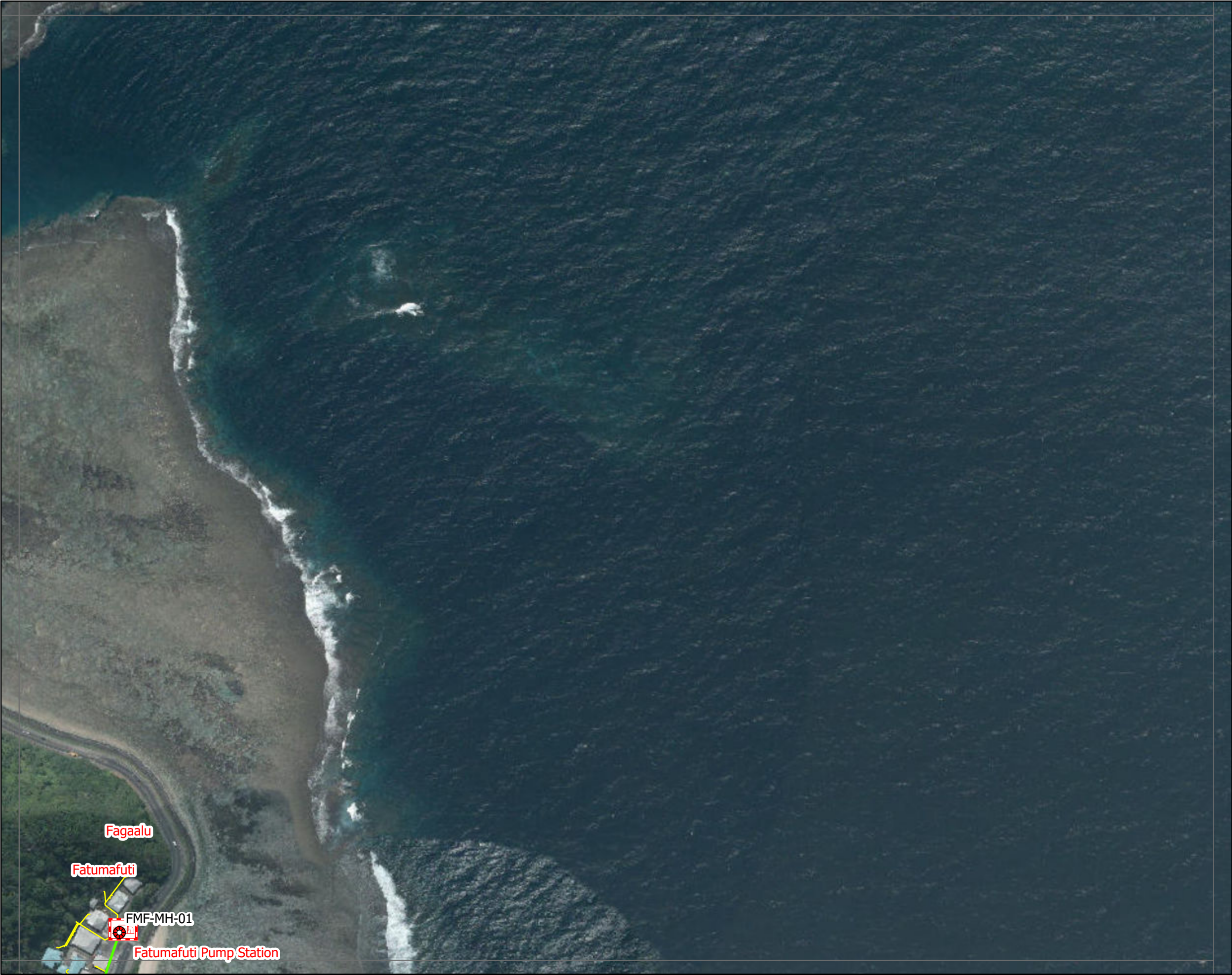


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0 55 110 220 330 440 Feet

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D8
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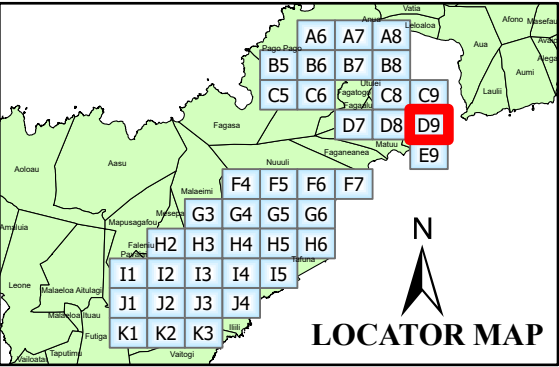
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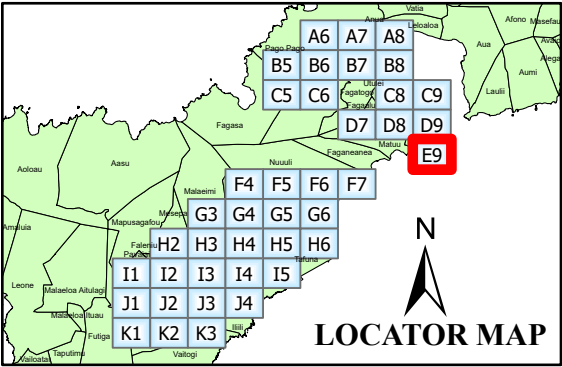
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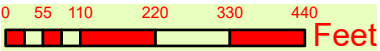
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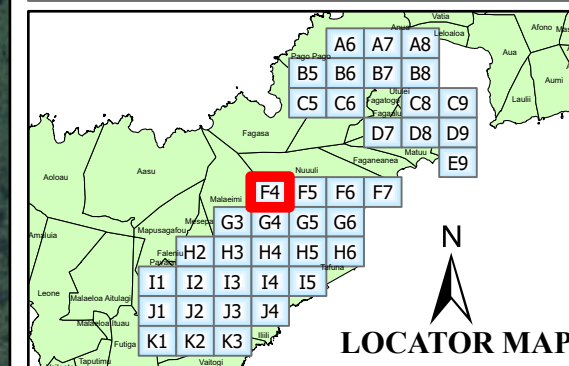
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SEWER LATERALS

SEWER FORCEMAIN



station_flowmeter_updated



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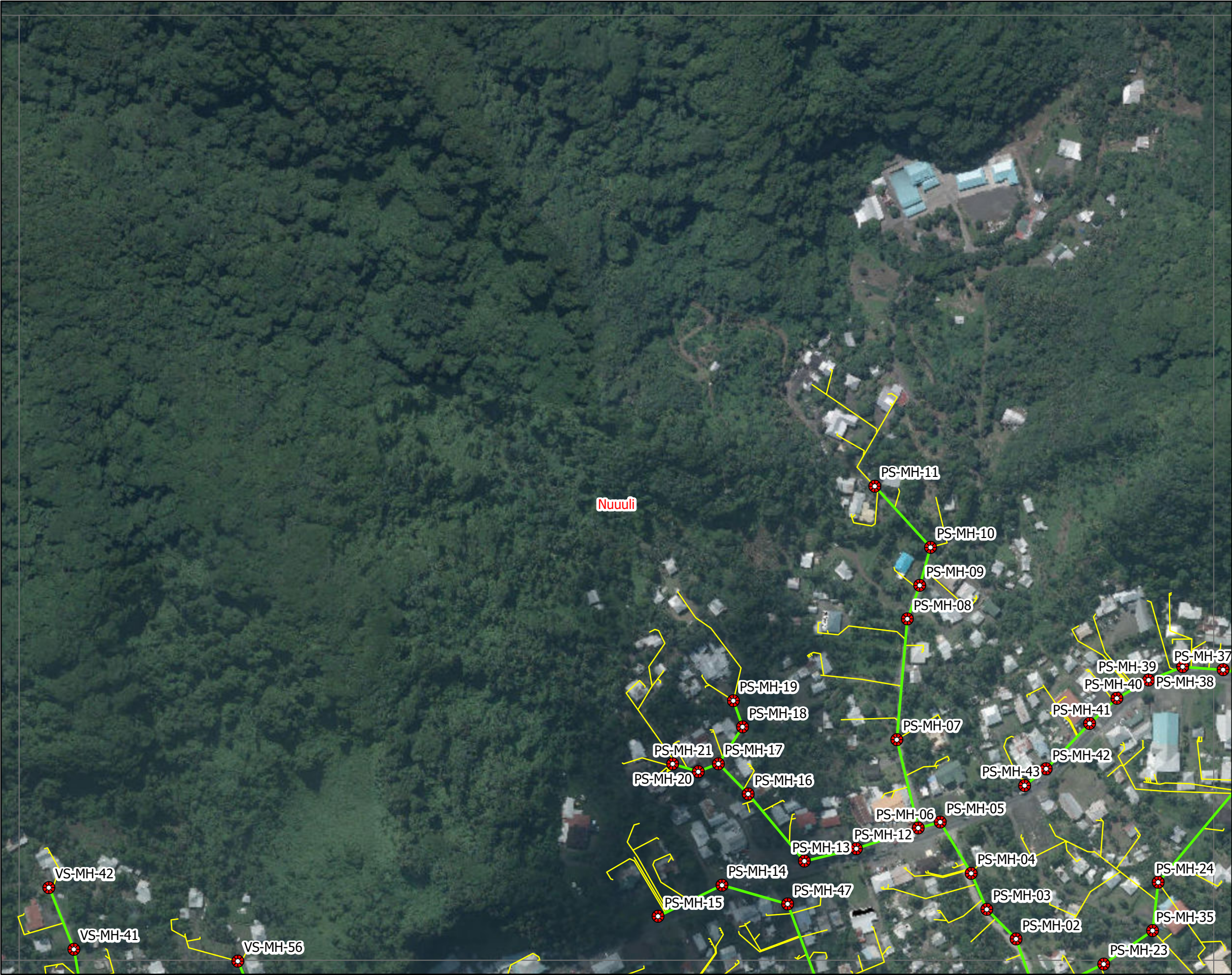
tut_villages

0 55 110 220 330 440
Feet

SHEET NO.

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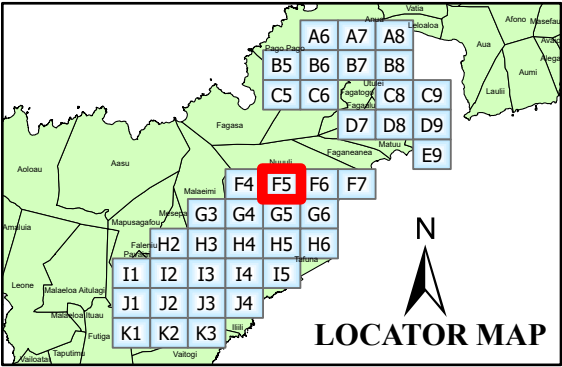
Prepared by:
EDMON O. LACAULAN
Project Engineer

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.
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**

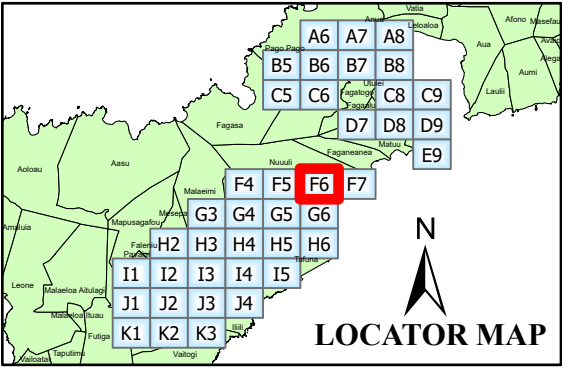
Prepared by:
EDMON O. LACAULAN
Project Engineer

Checked by:
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Senior Engineer

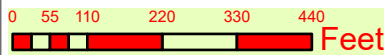
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- Legend
- SEWER GRAVITY MAINS
 - SEWER LATERALS
 - SEWER FORCEMAIN
 - station_flowmeter_updated
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SHEET NO.
F6
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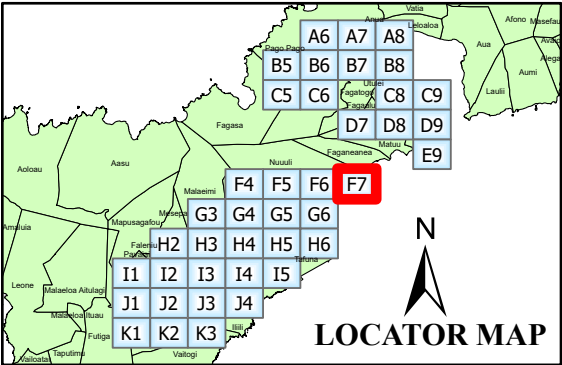
Drawing Title:
**RAIN GUARD
INSTALLATION MAP**

Prepared by:
EDMON O. LACAULAN
Project Engineer

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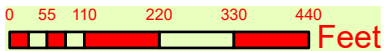
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SEWER FORCEMAIN

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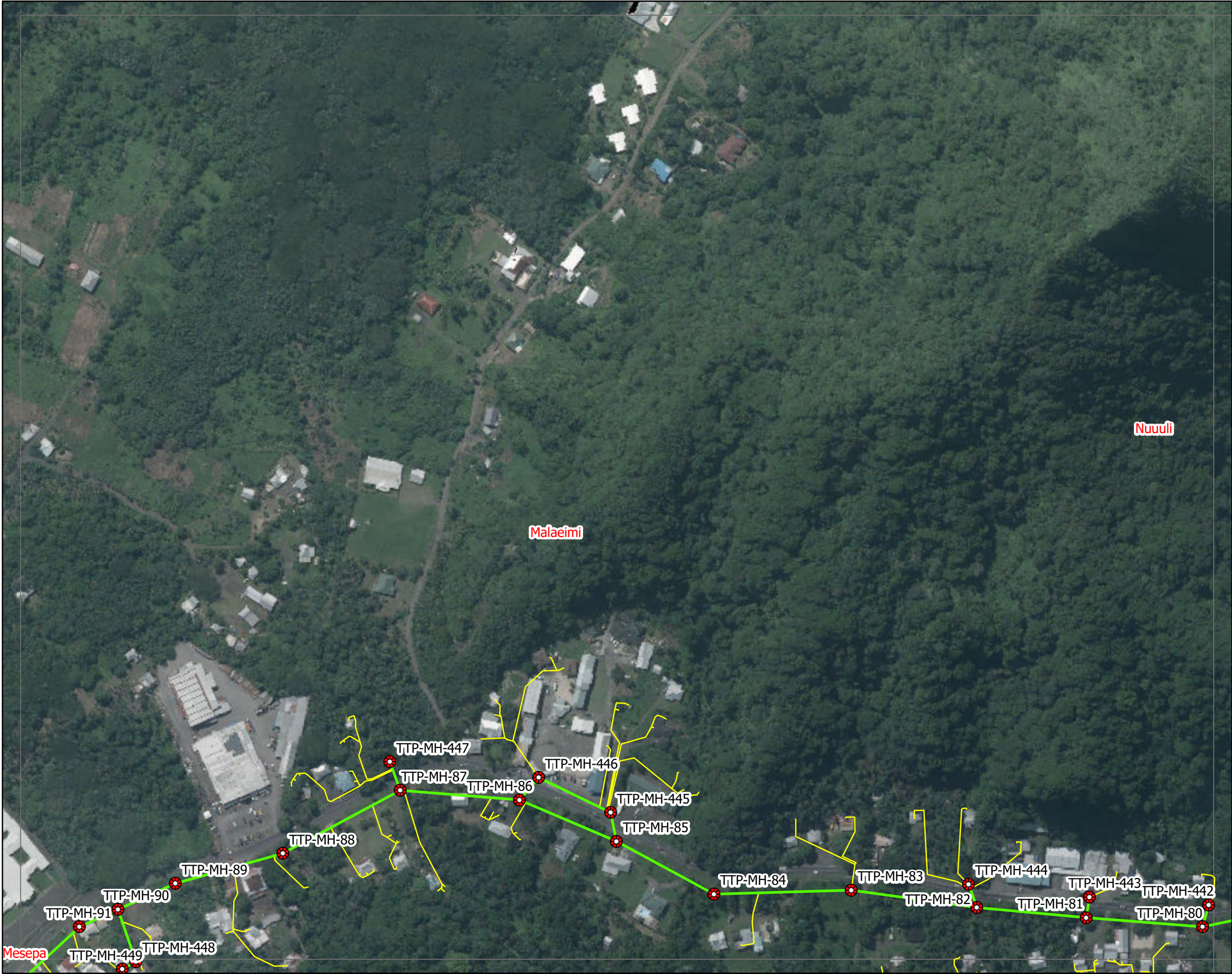
tut_villages



SHEET NO.

F7

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ASPA WASTEWATER
ENGINEERING DIVISION
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Drawing Title:
**RAIN GUARD
INSTALLATION MAP**

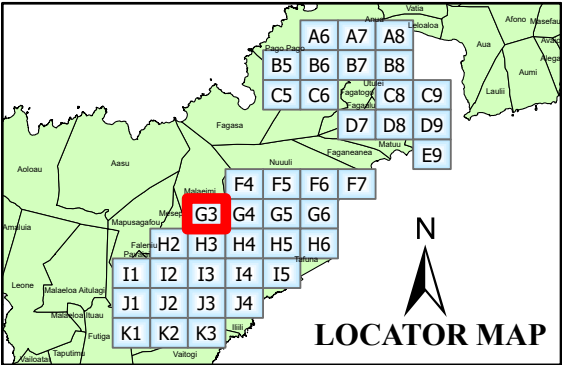
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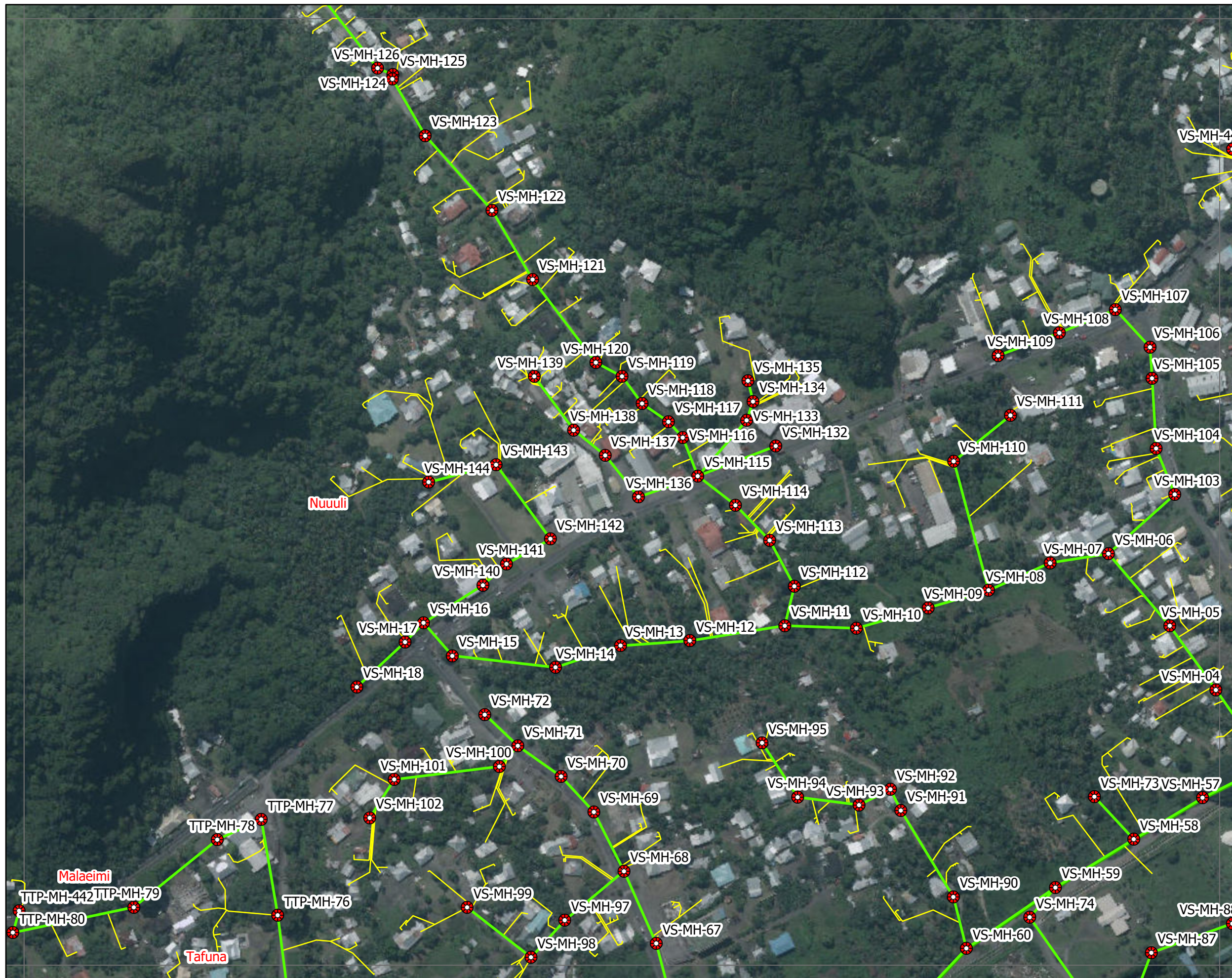


Legend

- 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
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ASPA WASTEWATER
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Drawing Title:

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INSTALLATION MAP**

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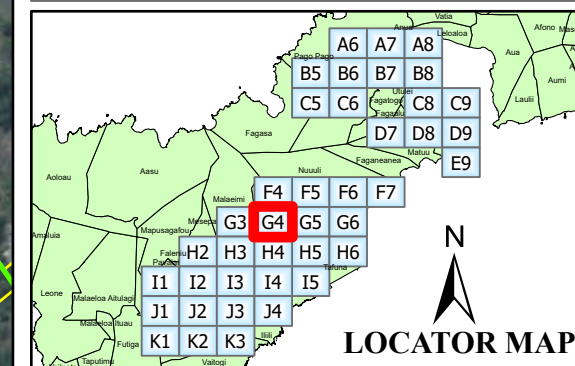
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0 55 110 220 330 440
Feet

SHEET NO.

G4

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ASPA WASTEWATER
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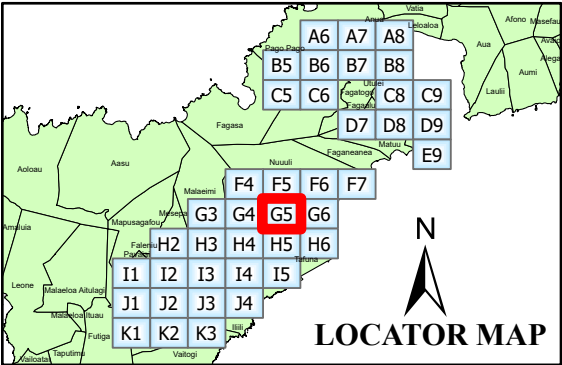
Drawing Title:
**RAIN GUARD
INSTALLATION MAP**

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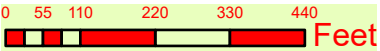
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SHEET NO.

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ASPA WASTEWATER
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Drawing Title:
**RAIN GUARD
INSTALLATION MAP**

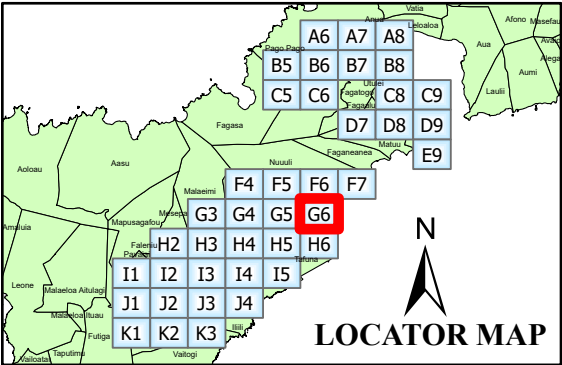
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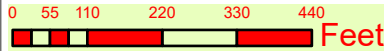
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SHEET NO.

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PHASE II**

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Drawing Title:

**RAIN GUARD
INSTALLATION MAP**

Prepared by:

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Project Engineer

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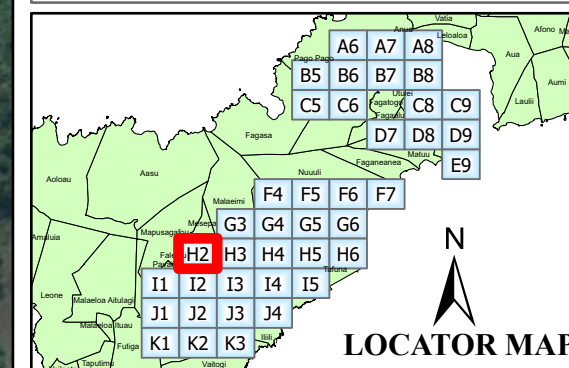
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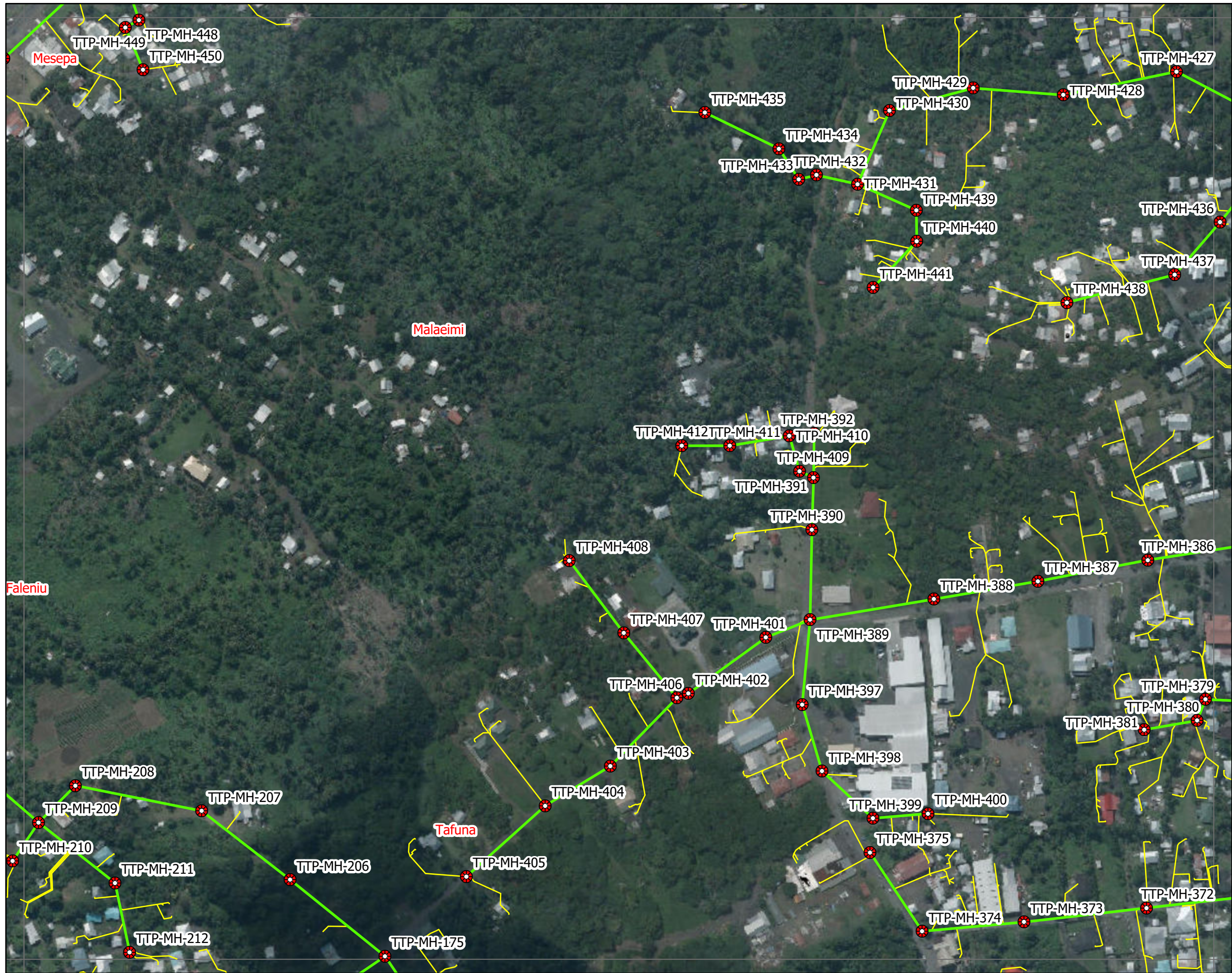
- SEWER GRAVITY MAINS
- SEWER LATERALS
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- station_flowmeter_updated
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0 55 110 220 330 440 Feet

SHEET NO.

H2

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ASPA WASTEWATER
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PHASE II**

Project Location:
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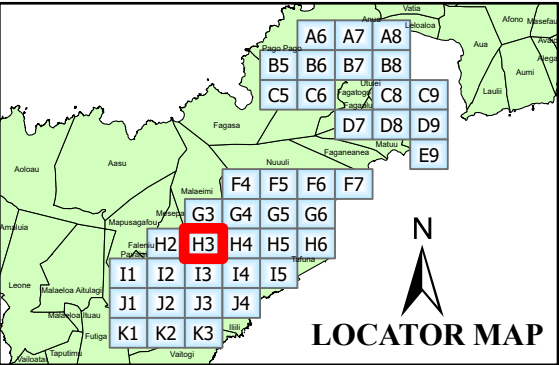
Drawing Title:
**RAIN GUARD
INSTALLATION MAP**

Prepared by:
EDMON O. LACAULAN
Project Engineer

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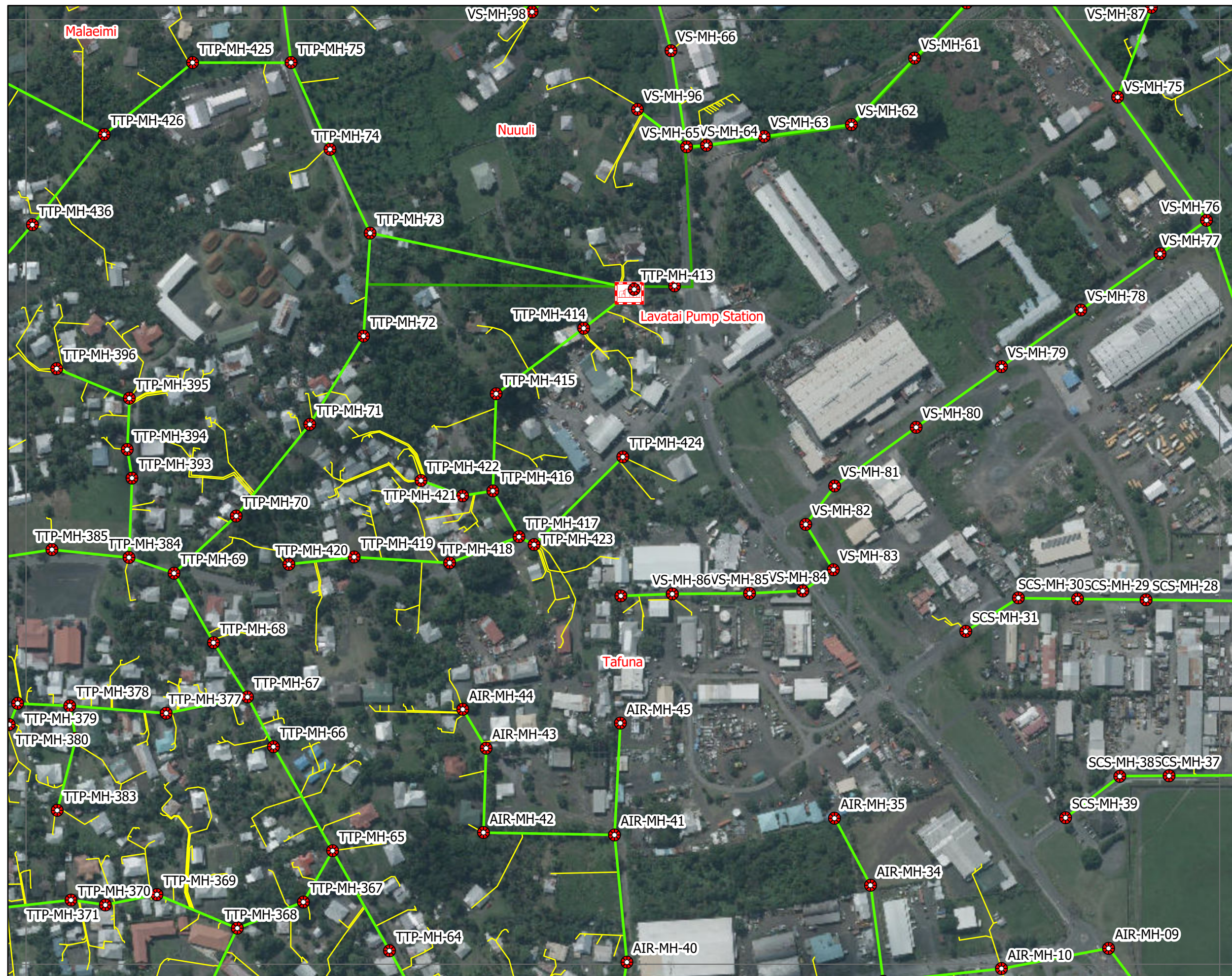


Legend

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- SEWER LATERALS
- SEWER FORCEMAIN
- station_flowmeter_updated
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0 55 110 220 330 440 Feet

SHEET NO.
H3
PAGE 25 OF 40



ASPA WASTEWATER
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Project Location:
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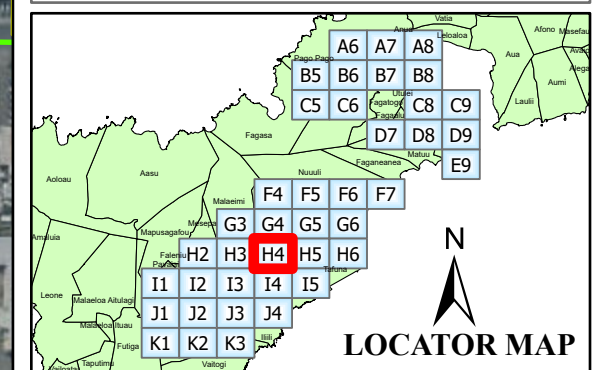
Drawing Title:
**RAIN GUARD
INSTALLATION MAP**

Prepared by:
EDMON O. LACAULAN
Project Engineer

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

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Legend

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0 55 110 220 330 440 Feet

SHEET NO.
H4
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ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
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Project Name:
**INFLOW & INFILTRATION
REDUCTION PROJECT
PHASE II**

Project Location:
**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

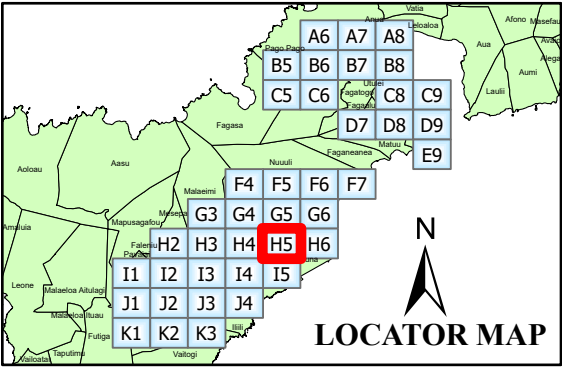
Drawing Title:
**RAIN GUARD
INSTALLATION MAP**

Prepared by:
EDMON O. LACAULAN
Project Engineer

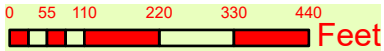
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FIDEL AGUILA, C.E.
Senior Engineer

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

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- Legend
- SEWER GRAVITY MAINS
 - SEWER LATERALS
 - SEWER FORCEMAIN
 - station_flowmeter_updated
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SHEET NO.

H5

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ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
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Project Name:
**INFLOW & INFILTRATION
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PHASE II**

Project Location:
**TUTUILA ISLAND
AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:
**RAIN GUARD
INSTALLATION MAP**

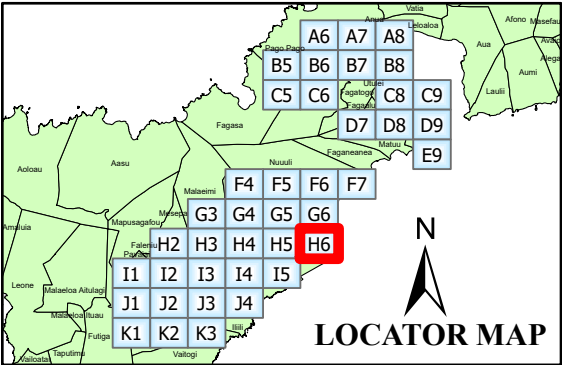
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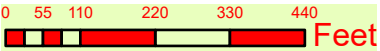
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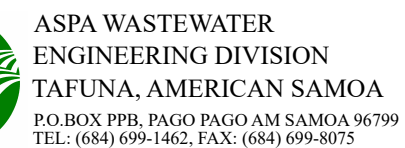
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- Legend
- SEWER GRAVITY MAINS
 - SEWER LATERALS
 - SEWER FORCEMAIN
 - station_flowmeter_updated
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SHEET NO.
H6
PAGE 28 OF 40



INFLOW & INFILTRATION REDUCTION PROJECT PHASE II

**TUTUILA ISLAND
AMERICAN SAMOA**

Drawing Title:

RAIN GUARD INSTALLATION MAP

Prepared by:

EDMON O. LACAULAN
Project Engineer

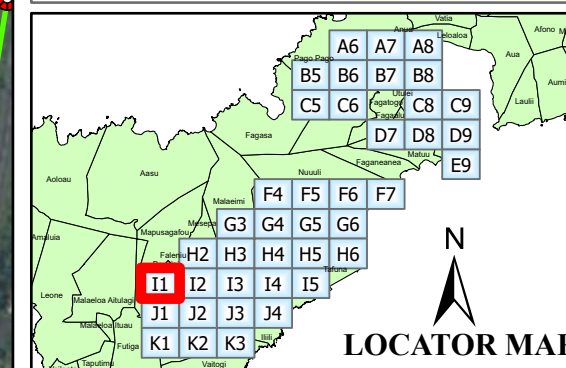
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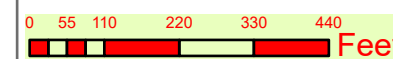
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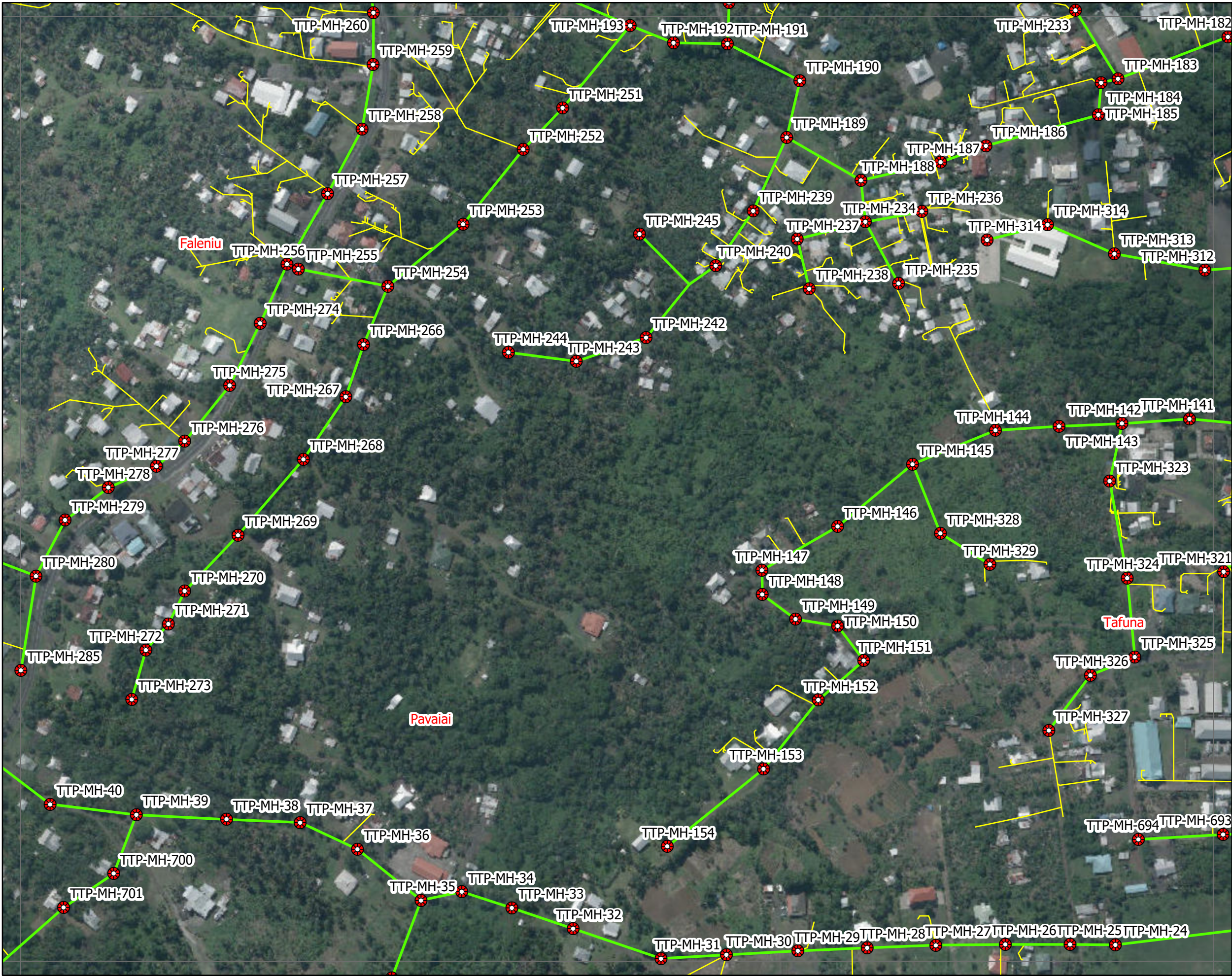
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-  station_flowmeter_updated
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-  tut_villages

SHEET NO.

I1

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ASPA WASTEWATER
ENGINEERING DIVISION
TAFUNA, AMERICAN SAMOA
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PHASE II**

Project Location:
**TUTUILA ISLAND
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Work Order Number: **1234059**

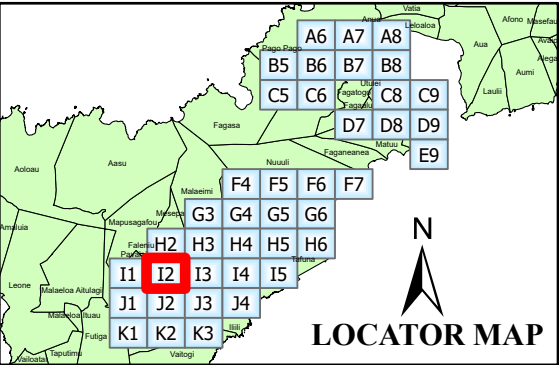
Drawing Title:
**RAIN GUARD
INSTALLATION MAP**

Prepared by:
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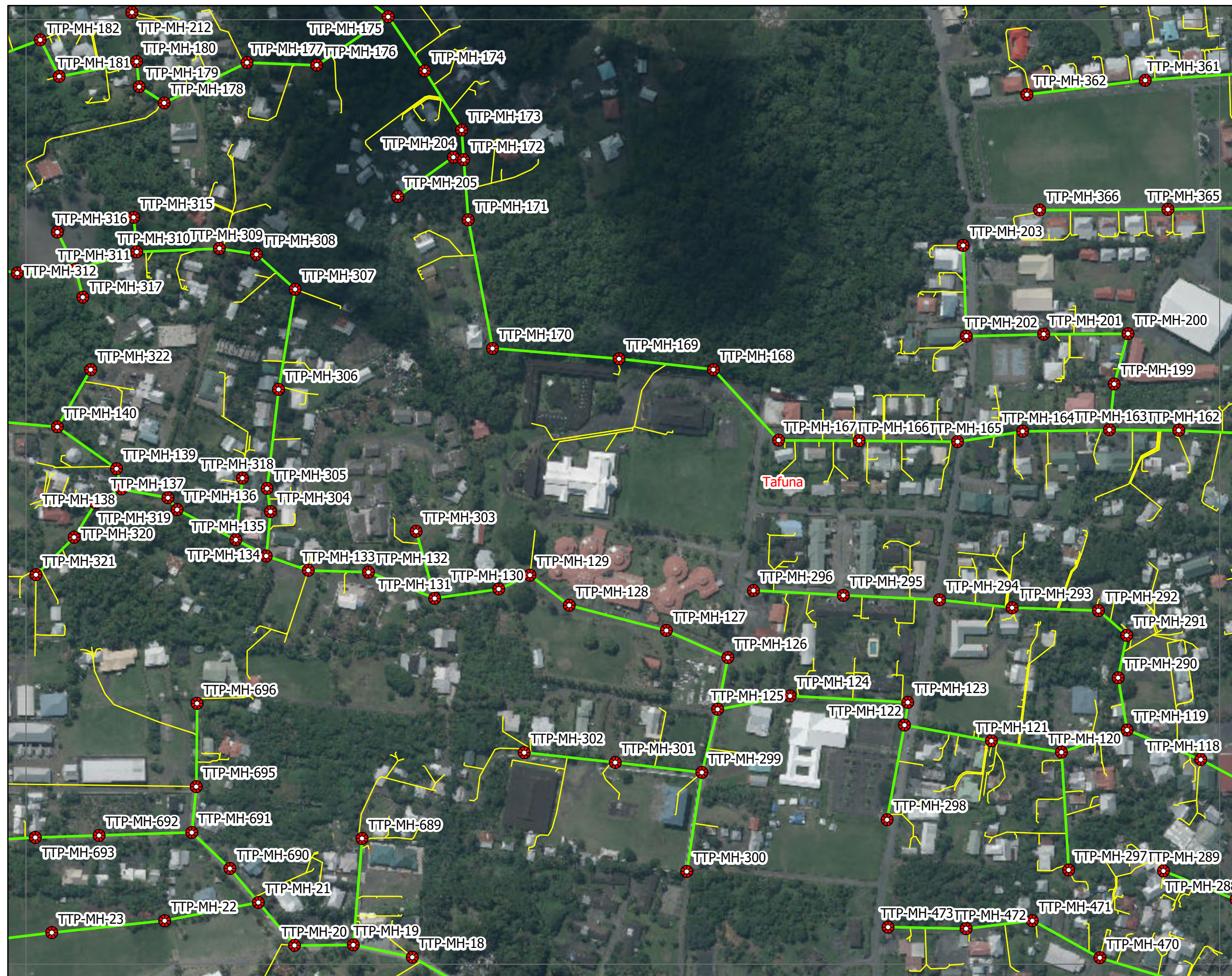


Legend

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

0 55 110 220 330 440 Feet

SHEET NO.
I2
PAGE 30 OF 40



ASPA WASTEWATER
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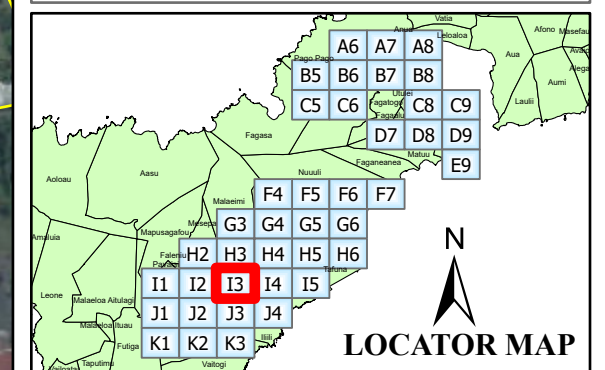
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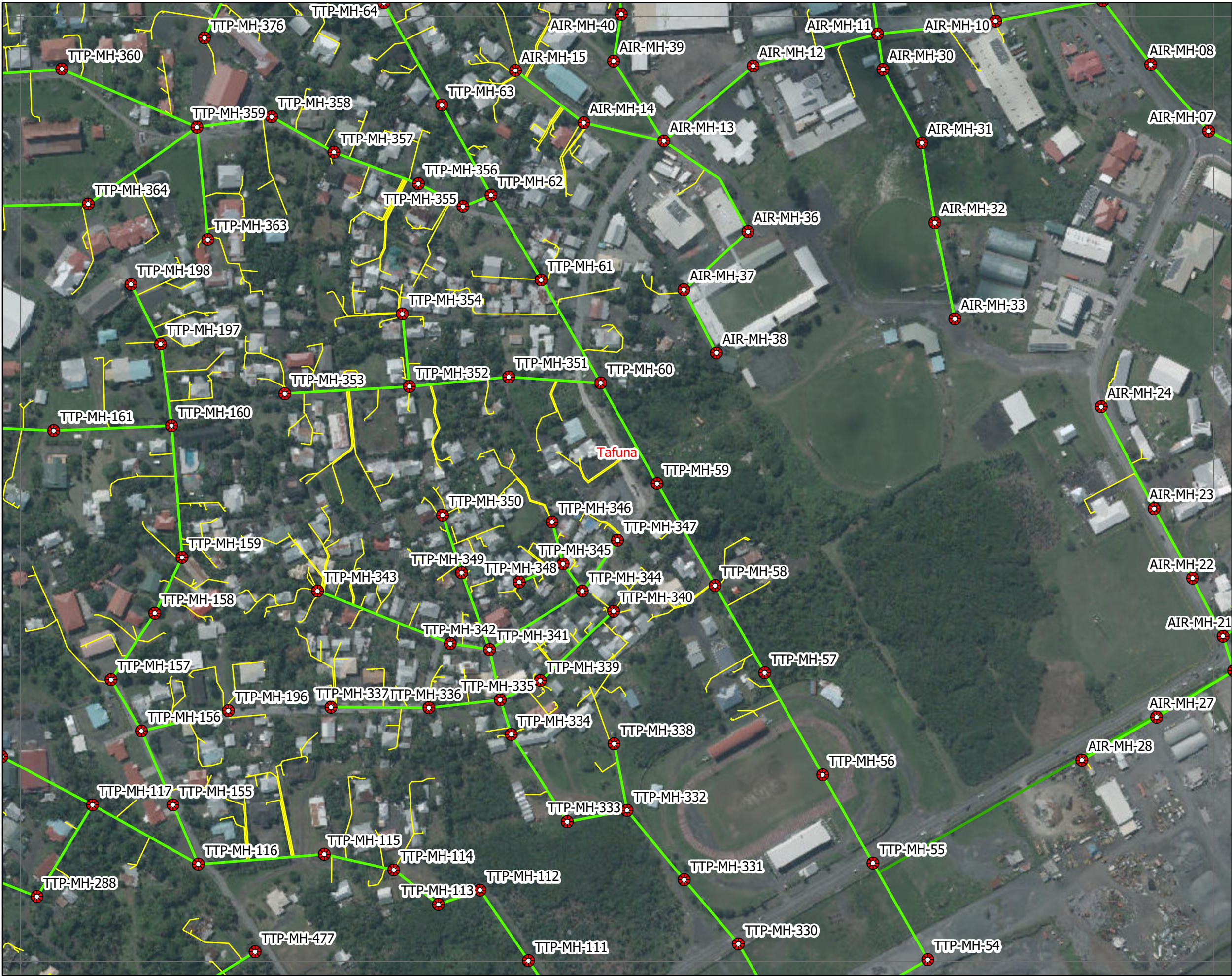


Legend

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0 55 110 220 330 440 Feet

SHEET NO.
I3
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ASPA WASTEWATER
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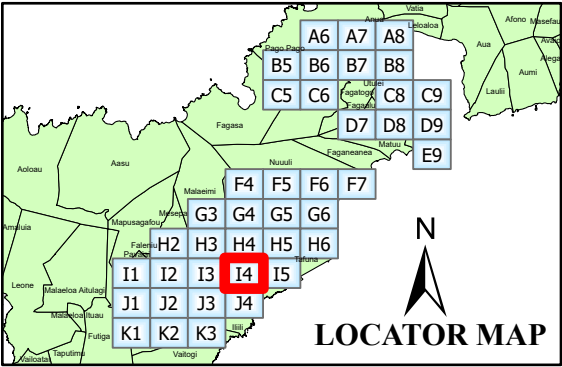
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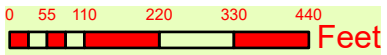
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SHEET NO.
I4
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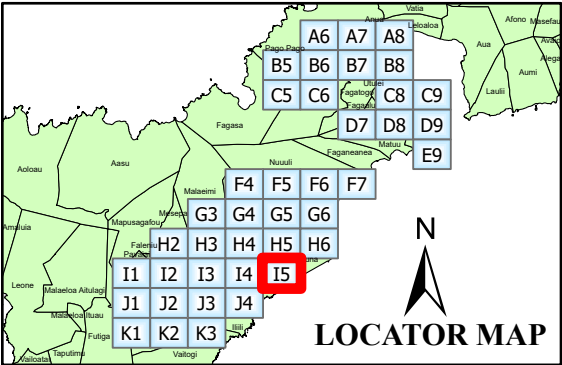
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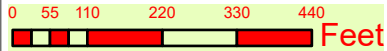
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Issue for: **REFERENCE ONLY**
Date: 9/30/2019



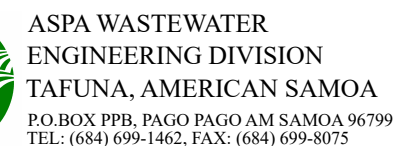
- Legend
- SEWER GRAVITY MAINS
 - SEWER LATERALS
 - SEWER FORCEMAIN
 - station_flowmeter_updated
 - MH_for_INFLOWprotector
 - tut_villages



SHEET NO.

I5

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INFLOW & INFILTRATION REDUCTION PROJECT PHASE II

**TUTUILA ISLAND
AMERICAN SAMOA**

Drawing Title:

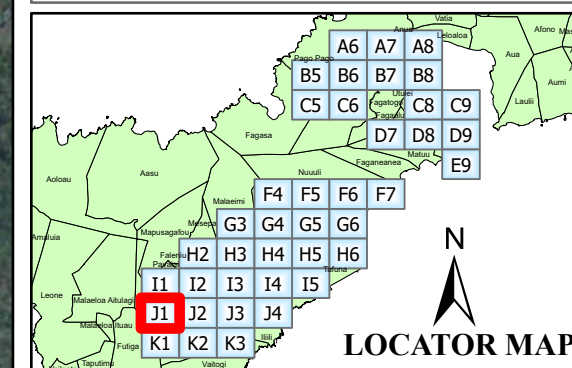
RAIN GUARD INSTALLATION MAP

EDMON O. LACAULAN
Project Engineer

FIDEL AGUILA, C.E.
Senior Engineer

WILLIAM SPITZENBERG, P.E.
ESD Manager

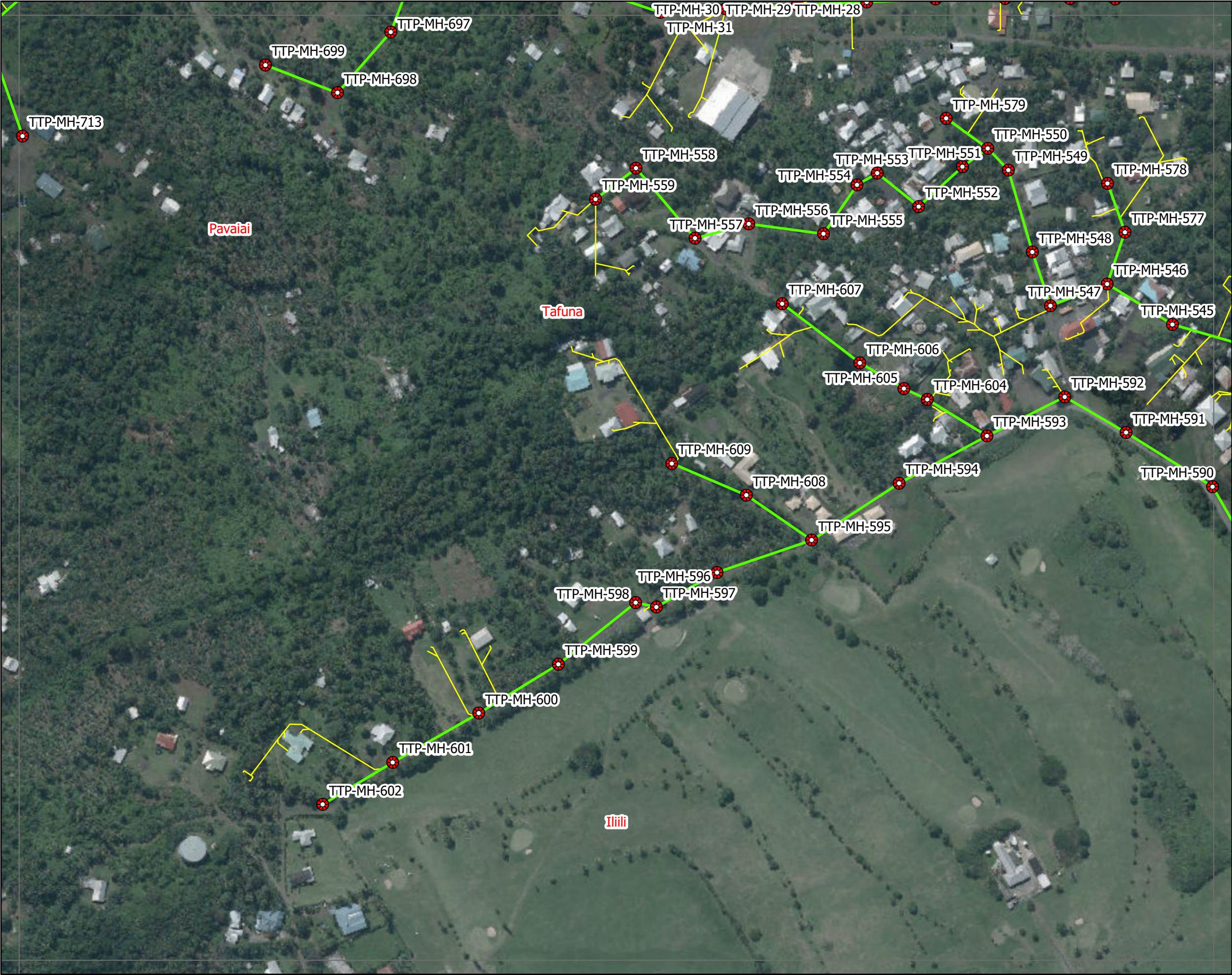
Issue for: **REFERENCE ONLY**
Date: 9/30/2019



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

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**

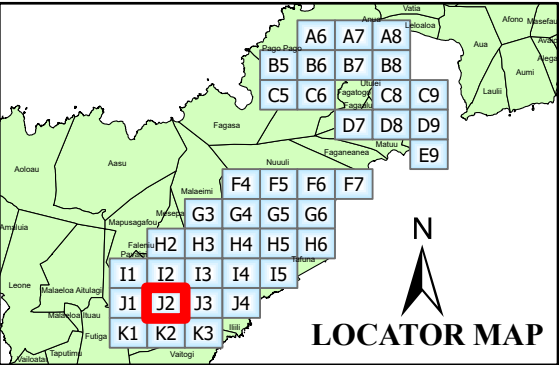
Drawing Title:
**RAIN GUARD
INSTALLATION MAP**

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

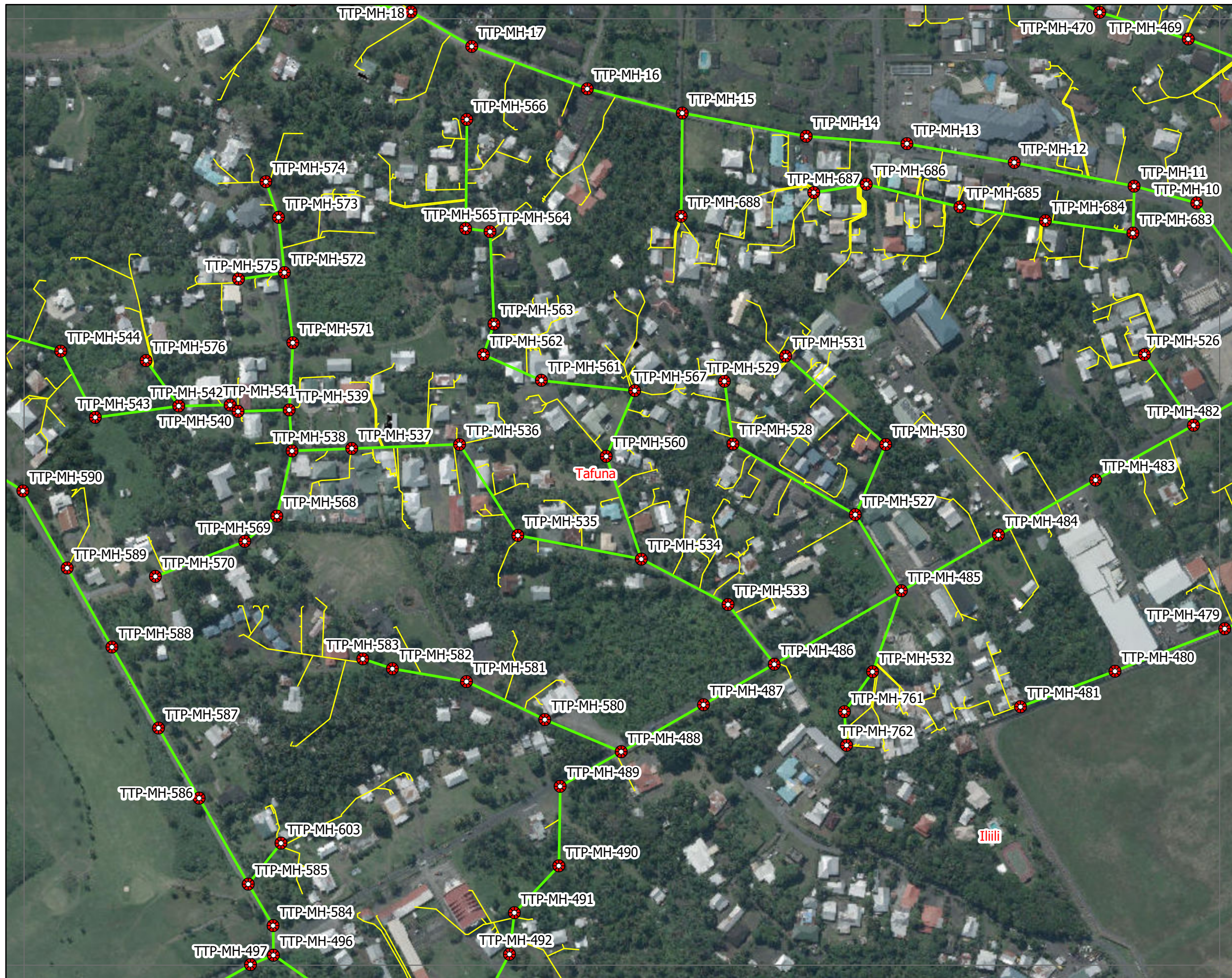


Legend

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

0 55 110 220 330 440 Feet

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**

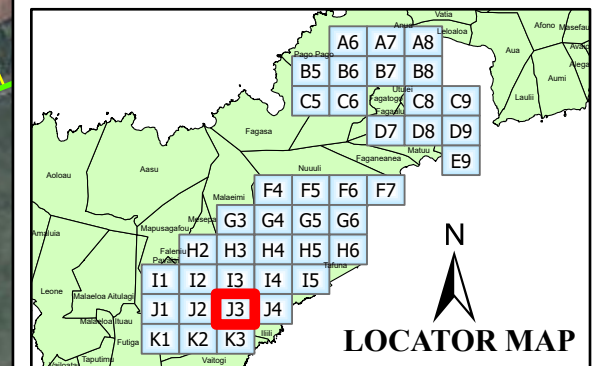
Drawing Title:
**RAIN GUARD
INSTALLATION MAP**

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



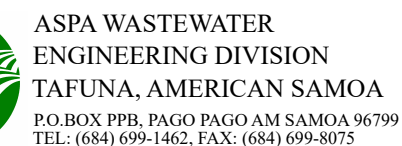
- Legend
- SEWER GRAVITY MAINS
 - SEWER LATERALS
 - SEWER FORCEMAIN
 - station_flowmeter_updated
 - MH_for_INFLOWprotector
 - tut_villages

0 55 110 220 330 440
Feet

SHEET NO.

J3

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INFLOW & INFILTRATION REDUCTION PROJECT PHASE II

**TUTUILA ISLAND
AMERICAN SAMOA**

Drawing Title:

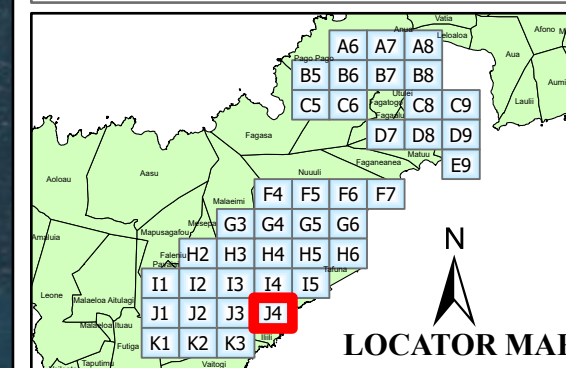
RAIN GUARD INSTALLATION MAP

EDMON O. LACAULAN
Project Engineer

FIDEL AGUILA, C.E.
Senior Engineer

WILLIAM SPITZENBERG, P.E.
ESD Manager

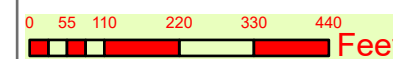
Issue for: **REFERENCE ONLY**
Date: 9/30/2019

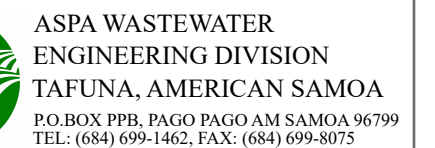


-  SEWER GRAVITY MAINS
-  SEWER LATERALS
-  SEWER FORCEMAIN
-  station_flowmeter_update
-  MH_for_INFLOWprotecto
-  tut_villages

J4

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INFLOW & INFILTRATION REDUCTION PROJECT PHASE II

**TUTUILA ISLAND
AMERICAN SAMOA**

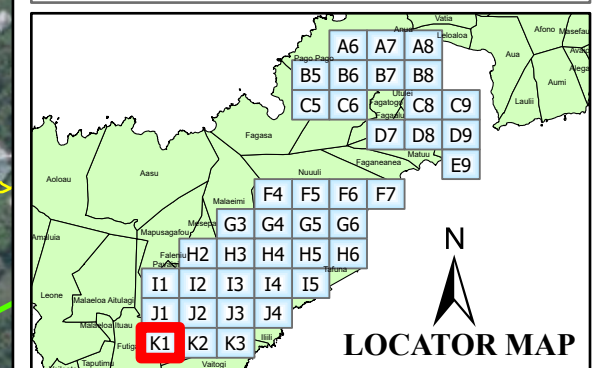
RAIN GUARD INSTALLATION MAP

EDMON O. LACAULAN
Project Engineer

FIDEL AGUILA, C.E.
Senior Engineer

WILLIAM SPITZENBERG, P.E.
ESD Manager

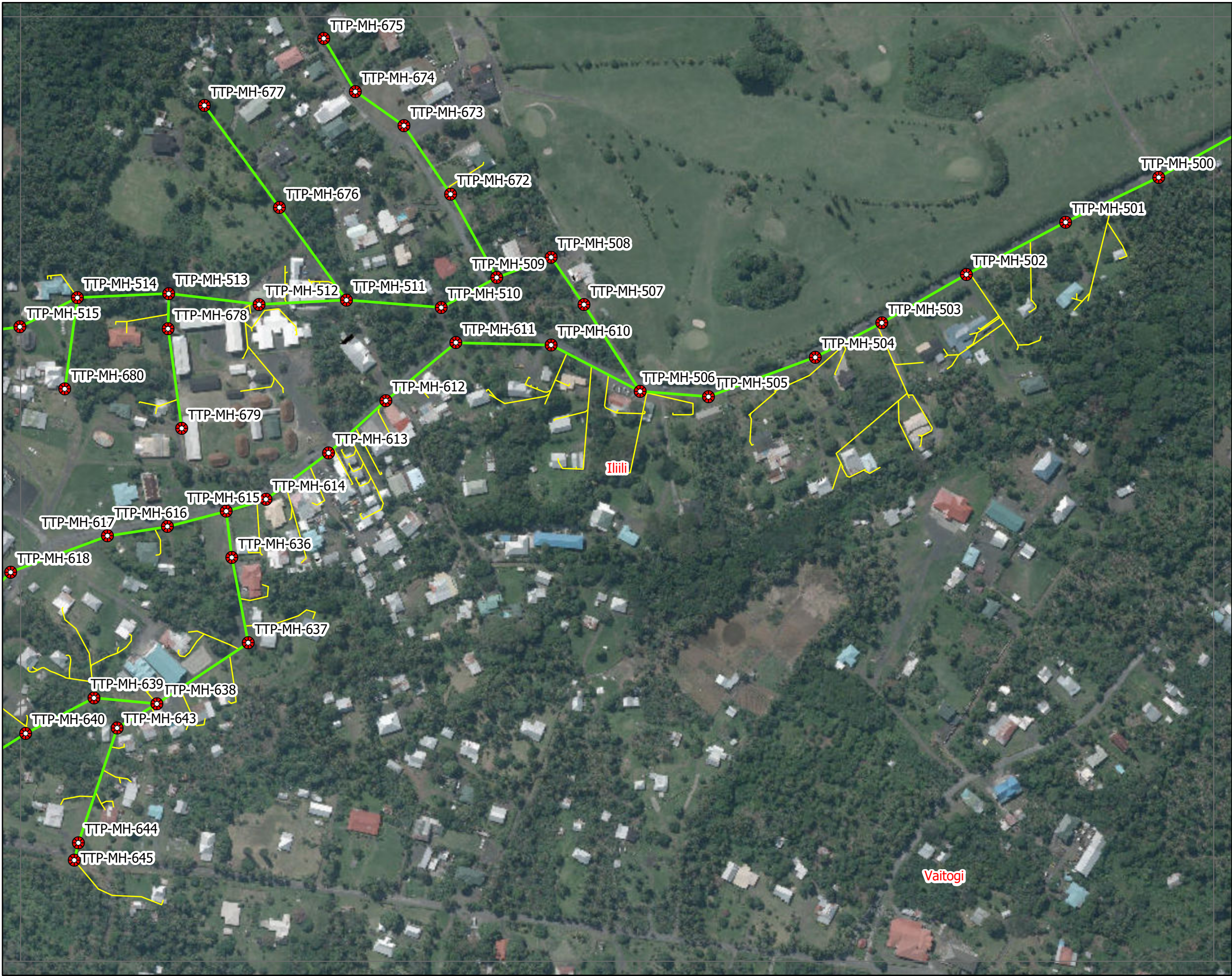
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Date: 9/30/2019



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

K1

PAGE 38 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**

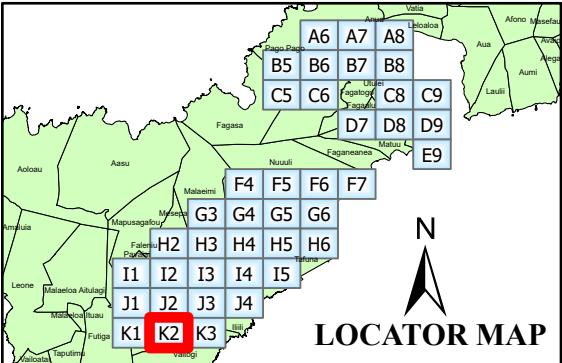
Drawing Title:
**RAIN GUARD
INSTALLATION MAP**

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

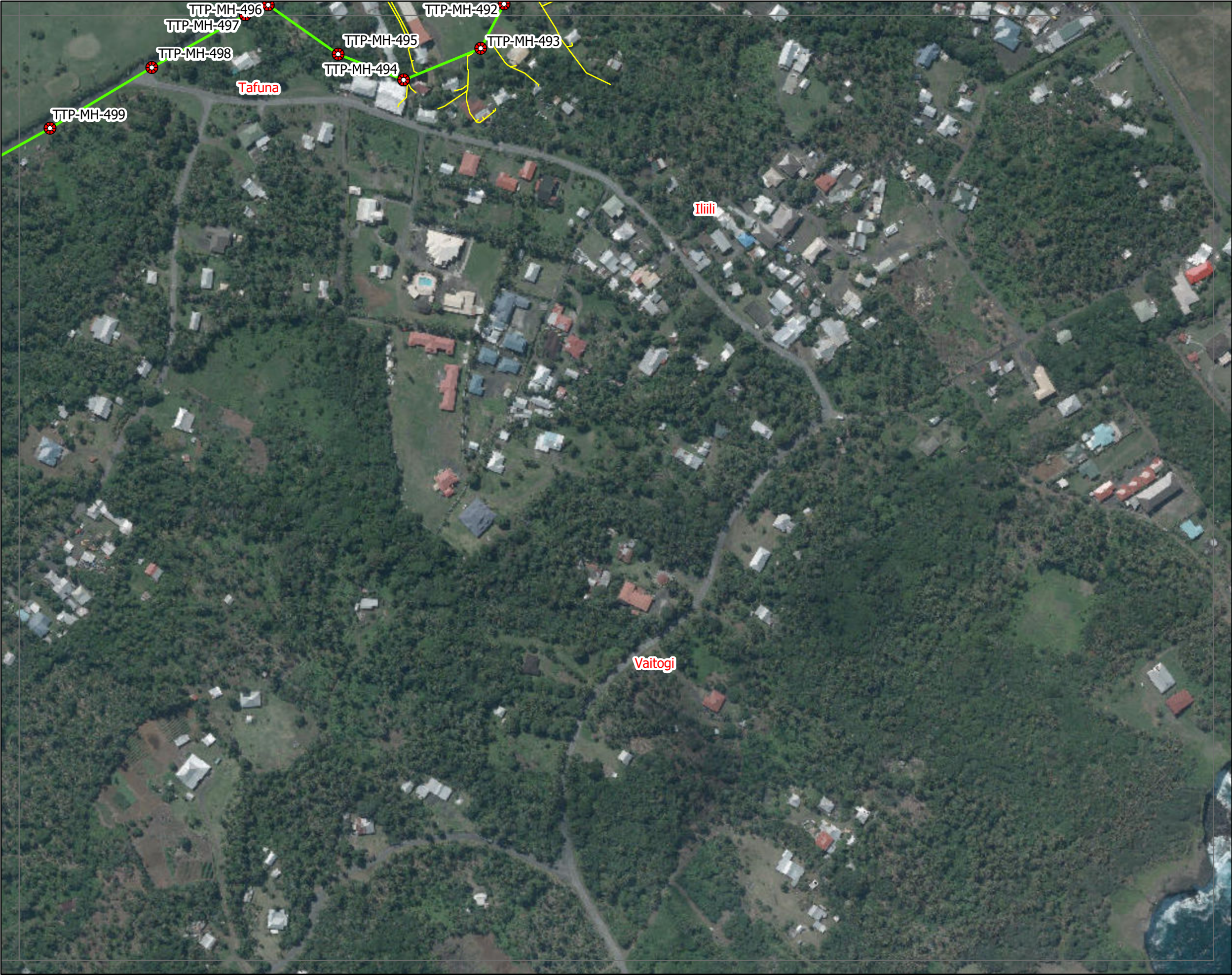


Legend

- 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
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TAFUNA, AMERICAN SAMOA
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PHASE II**

Project Location:
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AMERICAN SAMOA**

Work Order Number: **1234059**

Drawing Title:
**RAIN GUARD
INSTALLATION MAP**

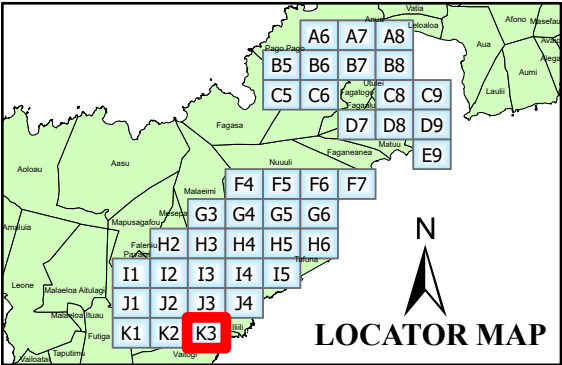
Prepared by:
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Legend

SEWER GRAVITY MAINS

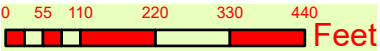
SEWER LATERALS

SEWER FORCEMAIN

station_flowmeter_updated

MH_for_INFLOWprotector

tut_villages



SHEET NO.

K3

PAGE 40 OF 40