TRANSMITTAL REQUIREMENTS AND CERTIFICATION STATEMENT FOR E-PERMITTING INDIVIDUAL NPDES APPLICATION SUBMISSIONS

1. Submission and File Numbers

e-Permitting Submission #: HNJ-C0E1-MHW8X

I am submitting a (check only one):

☐ Initial Individual NPDES application.

☐ Revised Individual NPDES application, Permit Number: _____

☒ Renewal Individual NPDES application, Permit Number: HI S000431

2. Certification Statement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature _____ Date Signed 11/16/18

Printed First and Last Name Gary Sanders

3. Transmittal Requirements (Check all.)

☒ I have read the instructions on Page 2.

☒ If I do not follow all of the instructions on Page 2, I acknowledge that:
   a. This submittal will not be accepted by the Clean Water Branch (CWB);
   b. Processing of my NPDES application will not begin;
   c. I am delaying the processing of my NPDES application; and
   d. The CWB may deny my request for NPDES permit coverage with or without prejudice.

☒ The signature provided in Item No. 2 is an original signature.

☒ My CD or DVD is attached. This CD or DVD contains only the downloaded e-Permitting submission identified in Item No. 1 above. I have not altered this file.

4. Filing Fee [Check the applicable box(es).]

☐ A $1000 check made payable to the State of Hawaii is attached.

☒ The filing fee was paid online through the e-Permitting Portal.

☐ I am submitting a revised Individual NPDES application. My filing fee has already been paid under the initial submittal.

☐ I am a State agency, and I am requesting a Bill for Collection.

IMPORTANT INSTRUCTIONS:

You are required to follow these instructions to complete your e-Permitting Individual NPDES application initial, revised, or renewal submittal. Failure to follow all of these instructions will delay the processing of your submittal and may result in the denial of your request for NPDES permit coverage. **Processing of your submission will not begin until the Clean Water Branch (CWB) receives all of the items below.**

Item No. 1 – Submission and File Numbers

a. Enter your e-Permitting Submission #. You may find your unique e-Permitting Submission # (e.g. 15H-ZGVV-421H) in your History Link of the e-Permitting Portal. If you are submitting a revised Individual NPDES application, the e-Permitting Submission # will contain the version (e.g. 15H-ZGVV-421H, v1).

b. Check only one (1) box to indicate if you are submitting an Initial Individual NPDES application (new submittal), a Revised Individual NPDES application (revised submittal to address CWB comments), or a Renewal Individual NPDES application (submittal to renew existing Individual NPDES permit coverage).

c. Enter your permit number if you are revising an Initial Individual NPDES application to respond to CWB comments. The CWB comments will contain the permit number. You will not need to provide a permit number if you are submitting an Initial Individual NPDES application.

Item No. 2 – Certification Statement

a. This is the certification statement for the e-Permitting submission # identified in Item No. 1.

b. Enter the Printed First and Last Name.
   i. For initial and renewal submittals, the Printed First and Last Name must be the Certifying Person identified in Section No. 2 of the e-Permitting Individual NPDES application form.
   ii. For revised submittals, the Printed First and Last Name may be either the Certifying Person identified in Section No. 2 of the e-Permitting Individual NPDES application form or the duly authorized representative identified in Section No. 8 of the e-Permitting Individual NPDES form.

c. Enter the Date Signed.

d. Provide an original Certification signature (hard copy of this form).
   Someone else may sign "for" the individual listed in the Printed First and Last Name.

Item No. 3 – Transmittal Requirements

a. You are required to check all of the boxes.

b. Provide a CD or DVD containing the e-Permitting submission in PDF or ZIP.
   To download the submission, click on the History Link in the e-Permitting Portal (after you submitted the application). Locate your submission and press the view button under the Action column. Then you may either:
   i. Press the Print button, scan the document, save the document as a PDF, and save the PDF and all your attachments on the CD or DVD; or
   ii. Press the Print Screen button on your keyboard, paste the image into a text editor (e.g. MS Word), convert the text file as a PDF, and save the PDF and all your attachments on the CD or DVD; or
   iii. Press the Download Submission button. A PDF file will be generated if you have no attachments. A ZIP file will be created if you have attachments. Save the PDF or ZIP file on the CD or DVD.

   Do not add additional files to the CD or DVD. Your CD or DVD shall match your e-Permitting submission #.

Item No. 4 – Filing Fee

a. You are required to check only one (1) of the boxes.
b. A $1000 filing fee is required for all Initial Individual NPDES applications.
c. A $1000 filing fee is required for all Renewal Individual NPDES applications.
d. If you are a State agency, you may request a Bill for Collection even if paying online.

Additional

a. Mail or deliver this form and all attachments to the Department of Health, Clean Water Branch, Hale Ola, Room 225, 2827 Waimano Home Road, Pearl City, Oahu, Hawaii 96782.

PLANNING
SOLUTIONS

November 29, 2018

Department of Health
Clean Water Branch
Hale Ola Building, Room 225
2827 Waimano Home Road
Pearl City, Hawai'i 96782

Subject: **e-Permitting Submittal # HNJ-C0E1-MHW8X**
Notice of Intent, Form C, Individual Permit Renewal
Thirty Meter Telescope
Maunakea, Hawai'i

Dear Sir or Madam:

Please find enclosed the required certification statement and DVD containing the downloaded submission from the e-Permitting portal. The permit fee has been paid on-line.

If you have any questions or require additional items, please contact me at 550-4559. Planning Solutions, Inc. and the TMT International Observatory appreciate your attention to this matter.

Sincerely,

Jim Hayes
Principal Planner

Enclosures:
Certification Statement
DVD

cc: Paul Gillett, via electronic mail

Pacific Park Plaza Suite 950 • 711 Kapi'olani Boulevard • Honolulu, Hawai'i 96813-5213
Phone: 808-550-4483 • www.psi-hi.com

version

(Submission #: HNJ-C0E1-MHW8X, version 1)

Summary

Submission #:	HNJ-C0E1-MHW8X	**Date Submitted:**	11/29/2018 3:01 PM
Form:	version (CWB Individual NPDES Form)	**Status:**	Submitted
Submitted By:	James T Hayes	**Submission Creator:**	James T Hayes
Active Steps:	Assign To		
File/Reference #:		**Reference #:**	
Description:	CWB Individual NPDES Form		

Notes

There are currently no Submission Notes.

Details

1a. New NPDES Application

I read HAR, Chapters 11-54 and 11-55. I certify that I am submitting this NPDES application since my project/facility/activity/discharge and my organization will comply with these rules and the NPDES Permit that the DOH may issue for my project/facility/activity/discharge. I certify that I will design, implement, operate, and maintain appropriate treatment/controls to ensure that my activity/discharge will not violate HAR, Chapters 11-54 and 11-55.

Yes.

Is your submission for a new NPDES permit (Initial Individual NPDES permit application or a Revised Individual NPDES permit application)?

No, my submission is a Renewal Individual NPDES application.

If you selected "Yes" above, please complete the rest of this section. Skip Section 1b and proceed to Section 2. If you selected "No" above, please skip the remainder of this section and proceed to Section 1.b.

NPDES permits cannot be issued for "after the fact" discharges/activities. For new NPDES applications, you are required to certify below that the information provided in this NPDES application does not include "after the fact" discharges/activities.

NONE PROVIDED

You are required to report any discharges/activities associated with your project/facility that started before obtaining NPDES permit coverage. This only applies to discharges to State waters and activities that require NPDES permit coverage [e.g. construction activities that disturb one (1) acre or more]. Please select one (1) of the options below.

NONE PROVIDED

I certify under penalty of law that my proposed discharge will not impair any State water (including but not limited to rivers, streams, wetlands, ponds, ground waters, and ocean), Native Hawaiian cultural resources (including but not limited to burial sites/iwi, heiau, and taro loi), or the exercise of traditional Native Hawaiian cultural practices

Yes. I certify.

If you answered No above, describe the step(s) you will take to reasonably protect those State waters, Native Hawaiian resources, or exercise of traditional Native Hawaiian cultural practices. Please only include the steps that have been accepted by the Office of Hawaiian Affairs and other appropriate agencies. Note: It is your responsibility under the Constitution of the State of Hawaii to mitigate any impacts.

NONE PROVIDED

1b. Renewal NPDES Application

Provide the previously assigned Permit Number (e.g. HI0021841).

HIS000431

Historic Effluent Limitations and Monitoring Data Spreadsheet

You are required to download and complete the Historic Effluent Limitations and Monitoring Data Spreadsheet below only if your NPDES permit contains numeric effluent limitations. This does not apply to NPDES permits for discharges of storm water associated with construction activities.

Historic Effluent Limitations and Monitoring Data Spreadsheet

Upload Completed Historic Effluent Limitations and Monitoring Data Spreadsheet- Attachment

NONE PROVIDED

Comment: NONE PROVIDED

Provide a summary of all DOH-CWB and/or U.S. EPA inspections conducted at your facility during the current permit term. Include the inspection date, findings, and all corrective actions. This applies to all NPDES permits.

None

Please report all of your existing NPDES permit submittal requirements. List the required submittal (e.g. DMR, Nutrient Management Plan, BMP Plan, TRE/TIE, etc.); the due date; and your submittal date. This applies to all NPDES permits.

Condition B.1.a. The County-approved ESC Plan and/or Grading Permit; no due date; submitted 8/13/14. Condition B.1.b. Operator or General Contractor information; no due date; submitted 8/12/14. Condition B.3. Notification of Start; no due date; submitted 9/11/2014. Condition B.4. Solid Waste Disclosure Form for Construction Sites; no due date; submitted 8/14/14. Condition B.10. Waste Load Allocation (WLA) Implementation and Monitoring Plan; no due date; has not been submitted (TMDLs have not been established for the project area so this requirement has not been triggered.

Effluent Violation Spreadsheet

You are required to download and complete the Effluent Violation Spreadsheet below only if your NPDES permit contains numeric effluent limitations. This does not apply to NPDES permits for discharges of storm water associated with construction activities.

Effluent Violation Spreadsheet

Upload Completed Effluent Violation Spreadsheet- Attachment

NONE PROVIDED

Comment: NONE PROVIDED

Please describe all actions you have taken to prevent all of the violations above from occurring again. You are required to provide this information with your renewal application. The DOH-CWB will take this into consideration when deciding whether to renew your permit or deny your renewal application. Pursuant to HAR 11-55-17, noncompliance by the Permittee with any conditions of the NPDES permit is grounds for denial of the renewal NPDES application.

NONE PROVIDED

2. Owner Information

Owner Legal Name

TMT International Observatory

Owner Department

NONE PROVIDED

Owner Division

NONE PROVIDED

Owner Mailing Address

100 West Walnut Street, Suite 300

Pasadena, CA 921124

Owner's Street Address

100 West Walnut Street, Suite 300
Pasadena, CA 91124

Owner Type

Industrial - Private Project

Signatory Type

The person certifying this NPDES application must meet one of the following descriptions and be employed by the Owner. Please identify your appropriate signatory type based on the items listed below.

State Agency: I certify that for a state agency, I am a principal executive officer or ranking elected official.

Municipal Agency: I certify that for a municipal agency, I am a principal executive officer or ranking elected official.

Non-Federal Public Agency: I certify that for a non-federal public agency, I am a principal executive officer or ranking elected official.

Federal Agency: I certify that for a federal agency, I am the chief executive officer of the agency, or I am the senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

Partnership: I certify that I am a general partner for a partnership.

Proprietorship: I certify that I am the proprietor for a sole proprietorship.

Corporation Officer: I certify that for a corporation, I am the President, Vice President, Secretary, or Treasurer of the corporation and in charge of a principal business function, or I perform similar policy or decision-making functions for the corporation.

Corporation Manager: I certify that for a corporation, I am the Manager of one or more manufacturing, production, or operating facilities and am authorized to make management decisions which govern the operation of the regulated facility or facilities including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations. I can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements and authority to sign documents has been assigned or delegated to me in accordance with corporate procedures.

Trust: I certify that for a trust, I am a trustee.

LLC: I certify that for a limited liability company (LLC), I am the Manager or a Member authorized to make management decisions for the LLC and am in charge of a principal business function, or I perform similar policy or decisionmaking functions for the LLC.

Please Select the Signatory Type based on the above descriptions.

Corporation Manager

Certifying Person Salutation

Mr.

Certifying Person First Name

Gary

Certifying Person Last Name

Sanders

Certifying Person Title

Project Manager

Certifying Person Email Address

sanders@tmt.org

Certifying Person Phone Number (e.g., 555-555-5555)

626-395-2997

Certifying Person Alternate Phone Number (cell) (e.g., 555-555-5555)

808-896-6963

Certifying Person Fax Number (e.g., 555-555-5555)

626-296-1887

The Owner's contact person may be the staff person with direct responsibility for the facility or project, not necessarily the certifying or "responsible" person.

Owner Contact Person's Salutation

Mr.

Owner Contact Person's First Name

Paul

Owner Contact Person's Last Name

Gillett

Owner Contact Person's Position Title

Facilities Department Head

Owner Contact Person's Email

pgillett@tmt.org

Owner Contact Person's Phone number (e.g., 555-555-5555)

626-395-1654

Owner Contact Person's Alternate Phone Number (cell) (e.g., 555-555-5555)

808-315-2587

Owner Contact Person's Fax number (e.g., 555-555-5555)

626-296-1887

3. Operator or General Contractor Contact Information

Will Operator or General Contractor information be submitted at least 30 calendar days before the start of construction activities?

No (operator/general contractor information is provided below)

Operator/General Contractor Legal name

Goodfellow Bros., LLC

Operator/General Contractor Department

NONE PROVIDED

Operator/General Contractor Division

NONE PROVIDED

Operator/General Contractor Mailing address

P.O. Box 383729
Waikoloa, HI 96738

Operator/General Contractor Street address:

68-1244 Waikoloa Road
Waikoloa, HI 96738

Operator/General Contractor Contact Person's Salutation

Mr.

Operator/General Contractor Contact Person's First Name

John

Operator/General Contractor Contact Person's Last Name

Makoff

Operator/General Contractor Contact Person's Position Title

Regional Manager

Operator/General Contractor Contact Person's Email

johnm@goodfellowbros.com

Operator/General Contractor Contact Person's Phone number (e.g., 555-555-5555)

808-887-6511

Operator/General Contractor Contact Person's Alternate Phone Number (cell) (e.g., 555-555-5555)

808-960-4648

Operator/General Contractor Contact Person's Fax number (e.g., 555-555-5555)

808-887-6522

4. Facility/Project Information

Enter the Facility or Project Name

The Facility or Project Name will appear on all correspondence, official files, and permits.

Facility or Project Name

TMT International Observatory

Provide the Mailing Address

The mailing address may be the mailing address of the facility's or project's contact person.

Mailing Address

100 West Walnut Street, Suite 300
Pasadena, CA 91124

Provide the Street Address

The street address is the facility or project location with respect to identifiable street names or adjacent developments or properties (i.e., 1234 15th Drive or northwest corner of 1st Street and X Avenue).

Street Address (i.e. the location of the project or facility)

Mauna Kea Summit Loop Road, Area E

Provide the Facility/Project Contact Person information.

Provide the facility/project contact person information. The facility/project contact person can be anyone (e.g. consultant, staff, etc.).

Facility/Project Contact Person Salutation

Mr.

Facility/Project Contact Person's First Name

John

Facility/Project Contact Person's Last Name

Makoff

Facility/Project Contact Person's Title

Regional Manager

Facility/Project Contact Person's Email

johnm@goodfellowbros.com

Facility/Project Contact Person Phone Number (e.g., 555-555-5555)

808-887-6511

Facility/Project Contact Person Alternate Phone Number (cell) (e.g., 555-555-5555)

808-960-4648

Facility/Project Contact Person Fax Number (e.g., 555-555-5555)

808-887-6522

Facility/Project Front Gate Location Coordinates or Start of Linear Construction Location Coordinates

19.82769937757558,-155.47941337260704
NONE PROVIDED

5. Tax Map Key (TMK) No.

Facility/Project Tax Map Key (TMK) Number(s)

You are required to download and complete the TMK spreadsheet below. All TMK numbers involved in the facility/project need to be disclosed. A minimum of one (1) TMK is required.

TMK Spreadsheet

Upload Completed TMK Spreadsheet- Attachment

TMK NPDES Spreadsheet-TMT.xlsx - 11/16/2018 03:29 PM

Comment: NONE PROVIDED

6. Receiving State Water(s) Information (1)

HAR, Section 11-54-1 defines State waters as:All waters, fresh, brackish, or salt around and within the State, including, but not limited to, coastal waters, streams, rivers, drainage ditches, ponds, reservoirs, canals, and lakes; provided that drainage ditches, ponds, and reservoirs required as part of a water pollution control system are excluded. This chapter applies to all state waters, including wetlands, subject to the following exceptions: (1) This chapter does not apply to groundwater. (2) This chapter does not apply to ditches, flumes, ponds and reservoirs that are required as part of a water pollution control system. (3) This chapter does not apply to ditches, flumes, ponds, and reservoirs that are used solely for irrigation and do not overflow into any other state waters, unless such ditches, flumes, ponds, and reservoirs are waters of the United States as defined at 40 C.F.R. 122.2.

A receiving State water is the first State water that receives the discharge. Note: You must identify a receiving State Water before an NPDES permit can be issued. Identify the receiving State water name in relation to the facility or project site based on the topography or contours of the land, excluding evaporation, percolation, retention, detention, etc. The receiving State water must be a surface water. Sample responses for this item include: Pacific Ocean at Sandy Beach, Honolulu Harbor, Pearl Harbor, Aiea Stream, Unnamed Stream Kaloi Gulch, Unnamed Dry Gulch, Unnamed Wetlands, etc.

Receiving State Waters Name

Kemole Gulch

Select the receiving State water CLASSIFICATION:

Classifications are defined in HAR, Chapter 11-54 and on the Water Quality Standards Maps available on the CWB website. The Water Qualtiy Standards Maps are provided for general information only and are to be used in conjunction with HAR, Chapter 11-54.Click on the link below to download a copy of HAR, Chapter 11-54.

HAR, Chapter 11-54

The Water Quality Standards Maps can be found by clicking on the link below.

Water Quality Standards Maps

Receiving State Water Classification

Class 2, Inland

Coordinates of the Discharge Point into State waters

Provide the coordinates of the discharge point (in decimal degrees) where discharge from the facility or construction site first enters the receiving State water. If the discharge first enters a storm drainage system, provide the discharge point coordinates for the outfall where the storm drainage system enters State waters.If the storm water discharge enters the receiving State water as a sheet flow, provide the coordinates based on the limits of discharge.For Example:Type:Discharge Point 1 (From)Latitude 21.274685 N, Longitude 158.012768 W(Click the "+" button in the tab heading row above to enter the next location)Then type:Discharge Point 1 (To)Latitude 21.304811N, Longitude 158.022721 W

Properly label the discharge points with numbers (i.e., Discharge Point No. 1, Discharge Point No. 2, etc.) which correspond to the location map(s) and flow chart(s) submitted.

Discharge Point label

Kemole Gulch

Discharge Point

19.846013436267245,-155.5002144512972
NONE PROVIDED

List all discharges at this discharge point (e.g. storm water associated with construction activities; storm water associated with industrial activities; hydrotesting waters; dewatering effluent; cooling water; secondary treated wastewater effluent; etc.).

storm water associated with construction activities

Is the receiving State water on the Section 303(d) List?

Click on the link below to view the Section 303(d) List.

Section 303(d) List

Is the receiving State water on the Section 303(d) List?

No

If your Receiving Water is on the Section 303(d) List, please provide the impairment pollutant(s).

NONE PROVIDED

Are there additional discharge points into receiving State waters?

Yes

If YES was selected, click the "+" button in the tab area at the top of this section to describe additional discharge points into receiving State waters.

6. Receiving State Water(s) Information (2)

HAR, Section 11-54-1 defines State waters as:All waters, fresh, brackish, or salt around and within the State, including, but not limited to, coastal waters, streams, rivers, drainage ditches, ponds, reservoirs, canals, and lakes; provided that drainage ditches, ponds, and reservoirs required as part of a water pollution control system are excluded. This chapter applies to all state waters, including wetlands, subject to the following exceptions: (1) This chapter does not apply to groundwater. (2) This chapter does not apply to ditches, flumes, ponds and reservoirs that are required as part of a water pollution control system. (3) This chapter does not apply to ditches, flumes, ponds, and reservoirs that are used solely for irrigation and do not overflow into any other state waters, unless such ditches, flumes, ponds, and reservoirs are waters of the United States as defined at 40 C.F.R. 122.2.

A receiving State water is the first State water that receives the discharge. Note: You must identify a receiving State Water before an NPDES permit can be issued. Identify the receiving State water name in relation to the facility or project site based on the topography or contours of the land, excluding evaporation, percolation, retention, detention, etc. The receiving State water must be a surface water. Sample responses for this item include: Pacific Ocean at Sandy Beach, Honolulu Harbor, Pearl Harbor, Aiea Stream, Unnamed Stream Kaloi Gulch, Unnamed Dry Gulch, Unnamed Wetlands, etc.

Receiving State Waters Name

Kuupahaa Gulch

Select the receiving State water CLASSIFICATION:

Classifications are defined in HAR, Chapter 11-54 and on the Water Quality Standards Maps available on the CWB website. The Water Qualtiy Standards Maps are provided for general information only and are to be used in conjunction with HAR, Chapter 11-54.Click on the link below to download a copy of HAR, Chapter 11-54.

HAR, Chapter 11-54

The Water Quality Standards Maps can be found by clicking on the link below.

Water Quality Standards Maps

Receiving State Water Classification

Class 2, Inland

Coordinates of the Discharge Point into State waters

Provide the coordinates of the discharge point (in decimal degrees) where discharge from the facility or construction site first enters the receiving State water. If the discharge first enters a storm drainage system, provide the discharge point coordinates for the outfall where the storm drainage system enters State waters.If the storm water discharge enters the receiving State water as a sheet flow, provide the coordinates based on the limits of discharge.For Example:Type:Discharge Point 1 (From)Latitude 21.274685 N, Longitude 158.012768 W(Click the "+" button in the tab heading row above to enter the next location)Then type:Discharge Point 1 (To)Latitude 21.304811N, Longitude 158.022721 W

Properly label the discharge points with numbers (i.e., Discharge Point No. 1, Discharge Point No. 2, etc.) which correspond to the location map(s) and flow chart(s) submitted.

Discharge Point label

Kuupahaa Gulch

Discharge Point

19.860556,-155.4975
NONE PROVIDED

List all discharges at this discharge point (e.g. storm water associated with construction activities; storm water associated with industrial activities; hydrotesting waters; dewatering effluent; cooling water; secondary treated wastewater effluent; etc.).

Storm water associated with construction activities

Is the receiving State water on the Section 303(d) List?

Click on the link below to view the Section 303(d) List.

Section 303(d) List

Is the receiving State water on the Section 303(d) List?

No

If your Receiving Water is on the Section 303(d) List, please provide the impairment pollutant(s).

NONE PROVIDED

Are there additional discharge points into receiving State waters?

Yes

If YES was selected, click the "+" button in the tab area at the top of this section to describe additional discharge points into receiving State waters.

6. Receiving State Water(s) Information (3)

HAR, Section 11-54-1 defines State waters as:All waters, fresh, brackish, or salt around and within the State, including, but not limited to, coastal waters, streams, rivers, drainage ditches, ponds, reservoirs, canals, and lakes; provided that drainage ditches, ponds, and reservoirs required as part of a water pollution control system are excluded. This chapter applies to all state waters, including wetlands, subject to the following exceptions: (1) This chapter does not apply to groundwater. (2) This chapter does not apply to ditches, flumes, ponds and reservoirs that are required as part of a water pollution control system. (3) This chapter does not apply to ditches, flumes, ponds, and reservoirs that are used solely for irrigation and do not overflow into any other state waters, unless such ditches, flumes, ponds, and reservoirs are waters of the United States as defined at 40 C.F.R. 122.2.

A receiving State water is the first State water that receives the discharge. Note: You must identify a receiving State Water before an NPDES permit can be issued. Identify the receiving State water name in relation to the facility or project site based on the topography or contours of the land, excluding evaporation, percolation, retention, detention, etc. The receiving State water must be a surface water. Sample responses for this item include: Pacific Ocean at Sandy Beach, Honolulu Harbor, Pearl Harbor, Aiea Stream, Unnamed Stream Kaloi Gulch, Unnamed Dry Gulch, Unnamed Wetlands, etc.

Receiving State Waters Name

Puupohakuloa Gulch

Select the receiving State water CLASSIFICATION:

Classifications are defined in HAR, Chapter 11-54 and on the Water Quality Standards Maps available on the CWB website. The Water Qualtiy Standards Maps are provided for general information only and are to be used in conjunction with HAR, Chapter 11-54.Click on the link below to download a copy of HAR, Chapter 11-54.

HAR, Chapter 11-54

The Water Quality Standards Maps can be found by clicking on the link below.

Water Quality Standards Maps

Receiving State Water Classification

Class 2, Inland

Coordinates of the Discharge Point into State waters

Provide the coordinates of the discharge point (in decimal degrees) where discharge from the facility or construction site first enters the receiving State water. If the discharge first enters a storm drainage system, provide the discharge point coordinates for the outfall where the storm drainage system enters State waters.If the storm water discharge enters the receiving State water as a sheet flow, provide the coordinates based on the limits of discharge.For Example:Type:Discharge Point 1 (From)Latitude 21.274685 N, Longitude 158.012768 W(Click the "+" button in the tab heading row above to enter the next location)Then type:Discharge Point 1 (To)Latitude 21.304811N, Longitude 158.022721 W

Properly label the discharge points with numbers (i.e., Discharge Point No. 1, Discharge Point No. 2, etc.) which correspond to the location map(s) and flow chart(s) submitted.

Discharge Point label

Puupohakuloa Gulch

Discharge Point

19.809768947346164,-155.50930258752993
NONE PROVIDED

List all discharges at this discharge point (e.g. storm water associated with construction activities; storm water associated with industrial activities; hydrotesting waters; dewatering effluent; cooling water; secondary treated wastewater effluent; etc.).

Storm water associated with construction activities

Is the receiving State water on the Section 303(d) List?

Click on the link below to view the Section 303(d) List.

Section 303(d) List

Is the receiving State water on the Section 303(d) List?

No

If your Receiving Water is on the Section 303(d) List, please provide the impairment pollutant(s).

NONE PROVIDED

Are there additional discharge points into receiving State waters?

Yes

If YES was selected, click the "+" button in the tab area at the top of this section to describe additional discharge points into receiving State waters.

6. Receiving State Water(s) Information (4)

HAR, Section 11-54-1 defines State waters as:All waters, fresh, brackish, or salt around and within the State, including, but not limited to, coastal waters, streams, rivers, drainage ditches, ponds, reservoirs, canals, and lakes; provided that drainage ditches, ponds, and reservoirs required as part of a water pollution control system are excluded. This chapter applies to all state waters, including wetlands, subject to the following exceptions: (1) This chapter does not apply to groundwater. (2) This chapter does not apply to ditches, flumes, ponds and reservoirs that are required as part of a water pollution control system. (3) This chapter does not apply to ditches, flumes, ponds, and reservoirs that are used solely for irrigation and do not overflow into any other state waters, unless such ditches, flumes, ponds, and reservoirs are waters of the United States as defined at 40 C.F.R. 122.2.

A receiving State water is the first State water that receives the discharge. Note: You must identify a receiving State Water before an NPDES permit can be issued. Identify the receiving State water name in relation to the facility or project site based on the topography or contours of the land, excluding evaporation, percolation, retention, detention, etc. The receiving State water must be a surface water. Sample responses for this item include: Pacific Ocean at Sandy Beach, Honolulu Harbor, Pearl Harbor, Aiea Stream, Unnamed Stream Kaloi Gulch, Unnamed Dry Gulch, Unnamed Wetlands, etc.

Receiving State Waters Name

Pohakuloa Gulch

Select the receiving State water CLASSIFICATION:

Classifications are defined in HAR, Chapter 11-54 and on the Water Quality Standards Maps available on the CWB website. The Water Qualtiy Standards Maps are provided for general information only and are to be used in conjunction with HAR, Chapter 11-54.Click on the link below to download a copy of HAR, Chapter 11-54.

HAR, Chapter 11-54

The Water Quality Standards Maps can be found by clicking on the link below.

Water Quality Standards Maps

Receiving State Water Classification

Class 2, Inland

Coordinates of the Discharge Point into State waters

Provide the coordinates of the discharge point (in decimal degrees) where discharge from the facility or construction site first enters the receiving State water. If the discharge first enters a storm drainage system, provide the discharge point coordinates for the outfall where the storm drainage system enters State waters.If the storm water discharge enters the receiving State water as a sheet flow, provide the coordinates based on the limits of discharge.For Example:Type:Discharge Point 1 (From)Latitude 21.274685 N, Longitude 158.012768 W(Click the "+" button in the tab heading row above to enter the next location)Then type:Discharge Point 1 (To)Latitude 21.304811N, Longitude 158.022721 W

Properly label the discharge points with numbers (i.e., Discharge Point No. 1, Discharge Point No. 2, etc.) which correspond to the location map(s) and flow chart(s) submitted.

Discharge Point label

Pohakuloa Gulch

Discharge Point

19.875692,-155.496944
NONE PROVIDED

List all discharges at this discharge point (e.g. storm water associated with construction activities; storm water associated with industrial activities; hydrotesting waters; dewatering effluent; cooling water; secondary treated wastewater effluent; etc.).

Storm water associated with construction activities

Is the receiving State water on the Section 303(d) List?

Click on the link below to view the Section 303(d) List.

Section 303(d) List

Is the receiving State water on the Section 303(d) List?

No

If your Receiving Water is on the Section 303(d) List, please provide the impairment pollutant(s).

NONE PROVIDED

Are there additional discharge points into receiving State waters?

Yes

If YES was selected, click the "+" button in the tab area at the top of this section to describe additional discharge points into receiving State waters.

6. Receiving State Water(s) Information (5)

HAR, Section 11-54-1 defines State waters as:All waters, fresh, brackish, or salt around and within the State, including, but not limited to, coastal waters, streams, rivers, drainage ditches, ponds, reservoirs, canals, and lakes; provided that drainage ditches, ponds, and reservoirs required as part of a water pollution control system are excluded. This chapter applies to all state waters, including wetlands, subject to the following exceptions: (1) This chapter does not apply to groundwater. (2) This chapter does not apply to ditches, flumes, ponds and reservoirs that are required as part of a water pollution control system. (3) This chapter does not apply to ditches, flumes, ponds, and reservoirs that are used solely for irrigation and do not overflow into any other state waters, unless such ditches, flumes, ponds, and reservoirs are waters of the United States as defined at 40 C.F.R. 122.2.

A receiving State water is the first State water that receives the discharge. Note: You must identify a receiving State Water before an

NPDES permit can be issued. Identify the receiving State water name in relation to the facility or project site based on the topography or contours of the land, excluding evaporation, percolation, retention, detention, etc. The receiving State water must be a surface water. Sample responses for this item include: Pacific Ocean at Sandy Beach, Honolulu Harbor, Pearl Harbor, Aiea Stream, Unnamed Stream Kaloi Gulch, Unnamed Dry Gulch, Unnamed Wetlands, etc.

Receiving State Waters Name

Wailuku River

Select the receiving State water CLASSIFICATION:

Classifications are defined in HAR, Chapter 11-54 and on the Water Quality Standards Maps available on the CWB website. The Water Qualtiy Standards Maps are provided for general information only and are to be used in conjunction with HAR, Chapter 11-54.Click on the link below to download a copy of HAR, Chapter 11-54.

HAR, Chapter 11-54

The Water Quality Standards Maps can be found by clicking on the link below.

Water Quality Standards Maps

Receiving State Water Classification

Class 2, Inland

Coordinates of the Discharge Point into State waters

Provide the coordinates of the discharge point (in decimal degrees) where discharge from the facility or construction site first enters the receiving State water. If the discharge first enters a storm drainage system, provide the discharge point coordinates for the outfall where the storm drainage system enters State waters.If the storm water discharge enters the receiving State water as a sheet flow, provide the coordinates based on the limits of discharge.For Example:Type:Discharge Point 1 (From)Latitude 21.274685 N, Longitude 158.012768 W(Click the "+" button in the tab heading row above to enter the next location)Then type:Discharge Point 1 (To)Latitude 21.304811N, Longitude 158.022721 W

Properly label the discharge points with numbers (i.e., Discharge Point No. 1, Discharge Point No. 2, etc.) which correspond to the location map(s) and flow chart(s) submitted.

Discharge Point label

Wailuku River

Discharge Point

19.711944,-155.3075
NONE PROVIDED

List all discharges at this discharge point (e.g. storm water associated with construction activities; storm water associated with industrial activities; hydrotesting waters; dewatering effluent; cooling water; secondary treated wastewater effluent; etc.).

Storm water associated with construction activities

Is the receiving State water on the Section 303(d) List?

Click on the link below to view the Section 303(d) List.

Section 303(d) List

Is the receiving State water on the Section 303(d) List?

Yes

If your Receiving Water is on the Section 303(d) List, please provide the impairment pollutant(s).

NO3+NO2

Are there additional discharge points into receiving State waters?

No

If YES was selected, click the "+" button in the tab area at the top of this section to describe additional discharge points into receiving

State waters.

7. Receiving Drainage System(s) Information (1)

Does the discharge enter a STORMWATER DRAINAGE SYSTEM before discharging into the receiving State waters?

No

If YES selected, provide the information for ALL of the following questions in this section.

Drainage System Owner's Name

NONE PROVIDED

Drainage System Owner's Approval

Please submit the Drainage System owner's approval to allow the subject discharge to enter their Drainage System. If the project owner also owns the Drainage System, you do not have to submit the approval.

Drainage System Owner's Approval to Discharge- Attachment

NONE PROVIDED

Comment: NONE PROVIDED

Please note that if you did not attach the Drainage System Owner's Approval to this application, you are required to submit the Approval to Discharge at least 30 calendar days before the start of contruction activities or discharge, whichever is sooner.

Will Drainage System Owner's approval be submitted at least 30 calendar days before start of construction?

NONE PROVIDED

If the Drainage System Owner is the same as the Owner of this Project, please select one of the following.

NONE PROVIDED

Are there additional Drainage Systems that may receive stormwater runoff from the project?

NONE PROVIDED

If YES was selected, click the "+" button in the tab area at the top of this section to provide additional Receiving Drainage System information.

8. Authorized Representative

Authorization

The Certifying Person hereby authorizes the named individual or any individual occupying the named position of the company/organization listed below to act as our representative to submit information/documents necessary to complete the NPDES application to discharge to State waters from the subject facility. Our representative is further authorized to submit information/documents for compliance with the NPDES permit conditions, except submittal of the Notice of Cessation (NOC). The Owner hereby agrees to comply with and be responsible for all NPDES permit conditions.This authorization begins with NPDES application processing and ends upon receipt of the NOC by the CWB. The Owner authorizes the duly authorized representative to submit additional information/documents necessary to complete the NPDES application and to submit information/documents to comply with the NPDES permit conditions. The Owner is responsible for all information/documents submitted by the duly authorized representative for completion of the NPDES application and for compliance with the NPDES permit conditions. The Certifying Person is required to sign the NOC Form for the project. After receipt of the NOC for the project, the duly authorized representative is no longer recognized by the CWB.The responsibility of the authorized representative cannot be delegated to an outside consultant with no financial responsibility for the company - they cannot sign as the "authorized representative" on behalf of the Owner. This requirement stems from the fact that self-reporting is critical under the Clean Water Act and Hawaii Water Pollution statutes; reports filed with CWB can have serious legal consequences, including possible civil and even criminal liability. The Owner in signing reports, therefore, must be represented by someone who has some responsibility for the corporation's financial interests.

The Certifying Person attests that the authorized representative 1) meets the requirements of HAR 11-55-07(b) and 2) has

financial responsibility within the corporation/organization who can attest to the accuracy of reports either because he or she participated in the preparation of the report, or supervises those who did prepare it and can attest that those individuals followed standard protocols that ensure the accuracy of the report. Both the Certifying Person and authorized representative understand that they can be subject to civil and criminal liability for non-compliance with NPDES permit conditions, non-compliance with HAR Chapters 11-54 and 11-55, and for falsifying information.

Yes. I certify that the above is true.

Authorized Representative Contact Information

Complete the following for your Authorized Representative.

Authorized Representative Company/Organization Name

Goodfellow Bros., LLC

Authorized Representative Department

NONE PROVIDED

Authorized Representative Division

NONE PROVIDED

Authorized Representative Mailing Address

P.O. Box 383729
Waikoloa, HI 96738

Authorized Representative Street Address

68-1244 Waikoloa Road
Waikoloa, HI 96738

Authorized Representative First Name

John

Authorized Representative Salutation

Mr.

Authorized Representative Last Name

Mahoff

Authorized Representative Email Address

johnm@goodfellowbros.com

Authorized Representative Phone (e.g., 555-555-5555)

808-887-6511

Authorized Representative Alternate Phone (cell) (e.g., 555-555-5555)

808-960-4648

Authorized Representative Fax (e.g., 555-555-5555)

808-887-6522

9. Discharge Specific Attachments

a. Please select the form(s) for the discharge/activity you are requesting NPDES permit coverage. You may cover multiple discharges under one (1) NPDES permit application.

Form C - Discharges of storm water associated with construction activities.

b. Download and complete appropriate form(s).

For all of the discharges/activities you are requesting NPDES permit coverage (Section 9.a above), please download and complete all

of the appropriate forms (Section 9.d below).

c. Upload completed form(s).- Attachment

NOIFormC-TMT.pdf - 11/29/2018 02:52 PM

Comment: NONE PROVIDED

d. Discharge specific forms.

Please see below for all of the discharge specific forms. A description of the discharge/activity is provided. Click on the link to download the form.

Form B - Discharges of storm water associated with industrial activities. NPDES permit coverage is required for discharges of storm water runoff associated with industrial activity(ies), as categorized in 40 CFR 122.26(b)(14)(i) through 122.26(b)(14)(ix) and 122.26(b)(14)(xi).

Click on this link to download Form B.

Form C - Discharges of storm water associated with construction activities. NPDES permit coverage is required for activities that disturb one (1) acre or more of total land area. NPDES permit coverage is also required for activities that disturb less than one (1) acre of total land area that are part of a larger common plan of development or sale if the larger common plan will ultimately disturb one (1) acre or more of total land area [40 CFR 122.26(b)(15)]. Land disturbance includes, but is not limited to clearing, grading, grubbing, uprooting of vegetation, demolition (even if leaving foundation slab), staging, stockpiling, excavation into pavement areas which go down to the base course, and storage areas (including areas on the roadway to park equipment if these areas are blocked off from public usage, grassed areas, or bare ground).

Click on this link to download Form C.

Form D - Discharges of treated effluent from leaking underground storage tank remedial activities. NPDES permit coverage is required for the release or discharge of treated ground water to State waters from the cleanup (or remedial action) of underground storage tanks that have leaked petroleum hydrocarbons.

Click on this link to download Form D.

Form E - Discharges of once through cooling water less than (1) million gallons per day. NPDES permit coverage is required for discharges to State waters of once through cooling water with a total flow of less than one (1) million gallons per day. "once through cooling water" means water passed through the main cooling condensers one or two times for the purpose of removing waste heat.

Click on this link to download Form E.

Form F - Discharges of hydrotesting waters. NPDES permit coverage is required for the release or discharge of hydrotesting waters to State waters. "Hydrotesting Waters" means water used to test the integrity of a tank or pipeline, pipeline disinfection, and/or pipeline flushing.

Click on this link to download Form F.

Form G - Discharges of construction activity dewatering. NPDES permit coverage is required for discharges to State waters of construction activity dewatering effluent. "Dewatering Effluent" is any type of water (e.g. ground water, storm water, stream water, ocean water, etc.) pumped from a construction area.

Click on this link to download Form G.

Form H - Discharges of treated process wastewater associated with petroleum bulk stations and terminals. NPDES permit coverage is required for discharges to State waters of treated process wastewater effluent from petroleum bulk stations and terminals. Treated process wastewater effluent includes tank water draws, product displacement process wastewater, wash down and fire hydrant system test waters, service station tank draws, recovered groundwater, and contaminated storm water runoff from the product storage and handling areas.

Click on this link to download Form H.

Form I - Discharges of treated process wastewater associated with well drilling activities. NPDES permit coverage is required for discharges to State waters of treated process wastewater associated with well drilling activities. Treated process wastewater includes well drilling slurries, lubricating fluids wastewaters, and well purge wastewaters.

Click on this link to download Form I.

Form K - Discharges of storm water and certain non-storm water discharges from small Municipal Separate Storm Sewer Systems (MS4s). NPDES permit coverage is required for storm water and certain non-storm water discharges to State waters from small MS4s.

Click on this link to download Form K.

Form L - Discharges of circulation water from decorative ponds or tanks. NPDES permit coverage is required for discharges to State waters of circulation water from decorative ponds or tanks containing fish or other aquatic species.

Click on this link to download Form L.

Form M - Point source discharges from the application of pesticides. NPDES permit coverage is required for the application of pesticides to State waters.

Click on this link to download Form M.

Form 2A - Pollutant discharges from a publicly owned treatment works to a State water.

Click on this link to download Form 2A.

Form 2B - Pollutant discharges from a concentrated animal feeding operation or aquatic animal production facility to a State water.

Click on this link to download Form 2B.

Form 2C - Discharges of wastewater to a State water from an existing facility, other than described in Form 2A and 2B.

Click on this link to download Form 2C.

Form 2D - Discharges of process wastewater to a State water from a new, proposed facility, other than described in Form 2A and 2B. Process wastewater is water that comes into direct contact with or results from the production or use of raw materials, intermediate product, finished product, byproduct, waste product, or wastewater.

Click on this link to download Form 2D.

Form 2E - Discharges of nonprocess wastewater which is not regulated by effluent limitation guidelines or new source performance standards. This form is intended primarily for use by dischargers (new or existing) of sanitary wastes and noncontact cooling water. It may not be used for discharges of storm water runoff or by educational, medical, or commercial chemical laboratories, or by publicly owned treatment works.

Click on this link to download Form 2E.

Form 2S - Sewage sludge (biosolids) for new and existing treatment works treating domestic sewage.

Click on this link to download Form 2S.

ZID/ZOM Form - Zone of Initial Dilution/Zone of Mixing.

Click on this link to download the ZOM Form.

Attachments

Date	Attachment Name	Context	Confidential?
11/16/2018 3:29 PM	TMK NPDES Spreadsheet-TMT.xlsx	v1 - 5. Tax Map Key (TMK) No.	No
11/29/2018 2:52 PM	NOIFormC-TMT.pdf	v1 - 9. Discharge Specific Attachments	No

Status History

Date	User	Processing Status
11/16/2018 10:38:49 AM	James T Hayes	Draft
11/29/2018 3:01:29 PM	James T Hayes	Submitted

Processing Steps

Step Name	Assigned To/Completed By	Date Completed
Application Submitted	James T Hayes	11/29/2018 3:01:28 PM
Assign To		
In Review		
Pending Applicant Action		
Issue NPDES Permit		

State of Hawaii, Department of Health, Clean Water Branch
NOI Form C
NOI for HAR, Chapter 11-55, Appendix C - NPDES General Permit Authorizing Discharges of Storm Water Associated With Construction Activities (as defined in 40 CFR §§122.26(b)(14)(x) and 122.26(b)(15)(i))

All sections of this form MUST be completed for National Pollutant Discharge Elimination System (NPDES) General Permit compliance.

C.1 – General Information

You are required to fulfill all requirements and check the box below. If you do not check the box, your NOI will be considered incomplete, and the CWB may deny your request for NPDES permit coverage with prejudice.

☒ *I certify that:*

- *I prepared a Storm Water Pollution Prevention Plan (SWPPP) in accordance with HAR, Chapter 11-55, Appendix C, Section 7 prior to submitting this NOI.*
- *I will comply with all terms, conditions, and requirements in HAR Chapter 11-55, Appendix C.*
- *I will implement, operate, and maintain my SWPPP to ensure that storm water discharges associated with construction activities will not violate HAR, Chapter 11-54; HAR, Chapter 11-55; and HAR, Chapter 11-55, Appendix C.*

C.2 - Existing Pollution Sources/ History of Land Use

Describe the history of land use at the existing Facility/Project site: There are other telescopes on the summit of Mauna Kea, but the site for the TMT has not been built on previously. The Access Way would also be in an area where there has not been previous construction. The Batch Plant Staging Area has been used as a concrete batch plant and staging area for the construction of previous telescopes. The Hale Pōhaku Staging Area has been used to support activities both at Hale Pōhaku and in the summit area; it has been used for similar purposes during the construction of other observatories.

Determine if the existing Facility/Project site may contain any existing pollution source(s) by using the following references. Place a check next to all references you utilized to determine existing pollution source(s). You are required to check at least one reference.

☐ a. *DOH, Solid and Hazardous Waste Branch-Hawaii Underground Storage Tank- Leaking Underground Storage Tank database*

☐ b. *DOH, Hazard Evaluation and Emergency Response Office records*

☐ c. Phase I and/or Phase II Environmental Site Assessments, as applicable

☒ d. Recent site inspections

☒ e. Past land use history

☐ f. Soil sampling data, if available

☐ g. Other (specify): _____

Describe any existing pollution source(s) identified in the references you checked above: None.

Describe any corrective measures that have been undertaken for any existing pollution source(s): None.

C.3 - Construction Site Estimates

Please provide the following estimates for the construction site.

Total project area including areas to be left undisturbed: 13.8 acres

Construction site area to be disturbed including storage and staging areas: 13.8 acres

Impervious area before construction: 13.8 acres

Impervious area after construction: 2.7 acres

C.4 - Quantity of Storm Water Runoff

Estimate the quantity of storm water runoff during construction when the greatest and/or maximum area of disturbance occurs. Provide the supporting calculations in an attachment or insert in this section.

Q=ciA. c (coefficient of runoff)=0.5; i (rainfall intensity)=1.75 inches/hour (from 10-year, 1-hour intensity map); A (area)=13.8 acres. Q=0.5*1.75*13.8=12 CFS.

_____ Millions of Gallons per Day (MGD)

or

12 Cubic Feet per Second (CFS)

C.5 - Soil Characterization

Describe the nature of the soil on the project site (including the potential to encounter contaminated soil) and the nature of the fill material to be used: There is no soil at the project sites in the summit region. The lava flows in the area are recent. There is a very small amount of soil developed only at the Hale Pōhaku Staging Area. The Hale Pōhaku Staging Area and the

Batch Plant area have been used during previous construction projects and are at least partially used as gravel/dirt parking lots.

C.6 - Nature and Sequence of Construction Activity

What is the function of the construction activity (Please check all applicable activity(ies))?

☐ *Residential* ☐ *Commercial* ☐ *Industrial* ☐ *Road Construction* ☐ *Linear Utility*

☒ *Other (please specify): a research observatory*

What is being constructed? The TMT Observatory and access way road.

Describe the scope of work and major construction activities you wish to be covered in this NOI, including baseyards and staging areas. You may only include project areas where the locations of impervious structures are known; project areas where the final grades are known; and work areas that will be performed by one (1) general contractor. A separate NOI will be required for all other project areas.

The scope of work is the construction of the observatory and access way road. The observatory will consist of the dome, which will be roughly180 feet tall, and a support building, which will be be roughly 18,000 square feet in size. The Access Way road will be roughly 0.65 miles long and asphalt paved. Construction will be supported by two baseyards: (a) the 1.5-acre Hale Pōhaku Staging Area at an elevation of roughly 9,000; and (b) the 4-acre Batch Plant Staging Area in the summit region near the base of the summit loop road.

The project will consist of:

1. *Phase 1: Mass grading, both access road and observatory site; subsurface utility work; access way road building; and observatory foundation*
2. *Phase 2: Observatory construction, including telescope, dome, and support building*

C.7 - Existing or Pending Permits, Licenses, or Approvals

Place a check next to all applicable Federal, State, or County permits, Licenses, or approvals for the project and specify the permit number.

☐ *Other NPDES Permit or NGPC File No.: NA*

☐ *Department of the Army Permit (Section 404): NA*

If your project requires work in, above, under or adjacent to State waters, please contact the Army Corps of Engineers (COE) Regulatory Branch at (808) 438-9258 regarding their permitting requirements. Provide a copy of the COE permitting jurisdictional determination (JD) or the JD with COE Person's Name, Phone Number, and Date Contacted.

☐ *Facility on SARA 313 List (identify SARA 313 chemicals on project site: NA*

☐ *RCRA Permit (Hazardous Wastes): NA*

☐ Section 401 Water Quality Certification: NA

☐ Other (Specify): NA

County-approved Erosion and Sediment Control Plan and/or Grading Permit

a. Is a County-approved Erosion and Sediment Control Plan and/or Grading Permit, where applicable for the activity and schedule for implementing each control, required?

☒ Yes. Please complete Section C.7.b below and skip Section C.7.c.

☐ No. Please complete Section C.7.c below and skip Section C.7.b.

b. Is a copy County-approved Erosion and Sediment Control Plan and/or Grading Permit, as appropriate for the activity and schedule for implementing each control, attached?

☐ Yes, see Attachment _____

☒ No, the County-approved Erosion and Sediment Control Plan and/or Grading Permit, as appropriate for the activity and schedule for implementing each control, will be submitted at least 30 calendar days before the start of construction activities.

c. Please select and complete at least one (1) of the following items to demonstrate that a County-approved Erosion and Sediment Control Plan and/or Grading Permit, as appropriate for the activity and schedule for implementing each control, is not required.

☐ See Attachment _____ for the County written determination.

☐ Provide the County contact person information (Name, Department, Phone Number, and Date Contacted): _____

☐ The project is a Federal Project and does not require County approval.

☐ Other (specify): _____

C.8 - Project Site Maps and Construction Plans/Drawings

Attach, title, and identify all maps (pdf - minimum 300 dpi) listed below, in Attachment A.

Please reference which maps account for the features listed below.

a. Island on which the project is located. Hawai'i Island, Figure 1
b. Vicinity of the project on the island. Mauna Kea summit region, Figures 1 through 4
c. Legal boundaries of the project. Figures 2 through 4
d. Receiving State water(s) from Section 6 of e-Permitting form and receiving separate drainage system(s) from Section 7 of e-Permitting form, identified and labeled. Figure 5
e. Location of ALL discharge points from Section 6 of e-Permitting form with identification numbers. Figure 5
f. Boundaries of 100-Year flood plans. NA, no flood plains in project region
g. Areas of soil disturbance. Figures 6a through 6e

h. *Location(s) of impervious structures (including buildings, roads, parking lots, etc.) after construction is completed. Figures 6a through 6e*

i. *Pre-Construction Topography including approximate slopes and drainage patterns for the entire Facility/Project site to the receiving storm water drainage system (if applicable) or to the receiving State water(s) (with flow arrows). Figure 4. The Receiving State waters are too far from the work area to show receiving water locations and construction site topography at the same scale. The lava flows are porous and it is doubtful that any water from the sites will reach the receiving water bodies. Figure 5 shows the Receiving State waters and the construction areas*

j. *During-Construction Topography (after major grading activities) including approximate slopes and drainage patterns for the entire Facility/Project site to the receiving storm water drainage system (if applicable) or to the receiving State water(s) (with flow arrows). Figures 6a through 6e. The Receiving State waters are too far from the work area to show receiving water locations and construction site topography at the same scale. The lava flows are porous and it is doubtful that any water from the sites will reach the receiving water bodies. Figure 5 shows the Receiving State waters and the construction areas.*

k. *Post-Construction Topography including approximate slopes and drainage patterns for the entire Facility/Project site to the receiving storm water drainage system (if applicable) or to the receiving State water(s) (with flow arrows). Figures 6a through 6e. The Receiving State waters are too far from the work area to show receiving water locations and construction site topography at the same scale. The lava flows are porous and it is doubtful that any water from the sites will reach the receiving water bodies. Figure 5 shows the Receiving State waters and the construction areas.*

C.9 - Construction Schedule

Provide the following estimated dates:

The date when construction activity will begin. February 2019

The date when each major construction activity begins.

1. *Phase 1: Mass grading, both access road and observatory site; subsurface utility work; access way road building; and observatory foundation: February 2019*
2. *Phase 2: Observatory construction, including telescope, done, and support building: July 2020*

The date when the Notice of Cessation form will be submitted. December 2024

Site Specific BMPs Plan Attachments

Attachment A - Project Site Maps and Construction Plans/Drawings (Section C.8)

PROJECT SITE MAPS, CONSTRUCTION PLANS/DRAWINGS

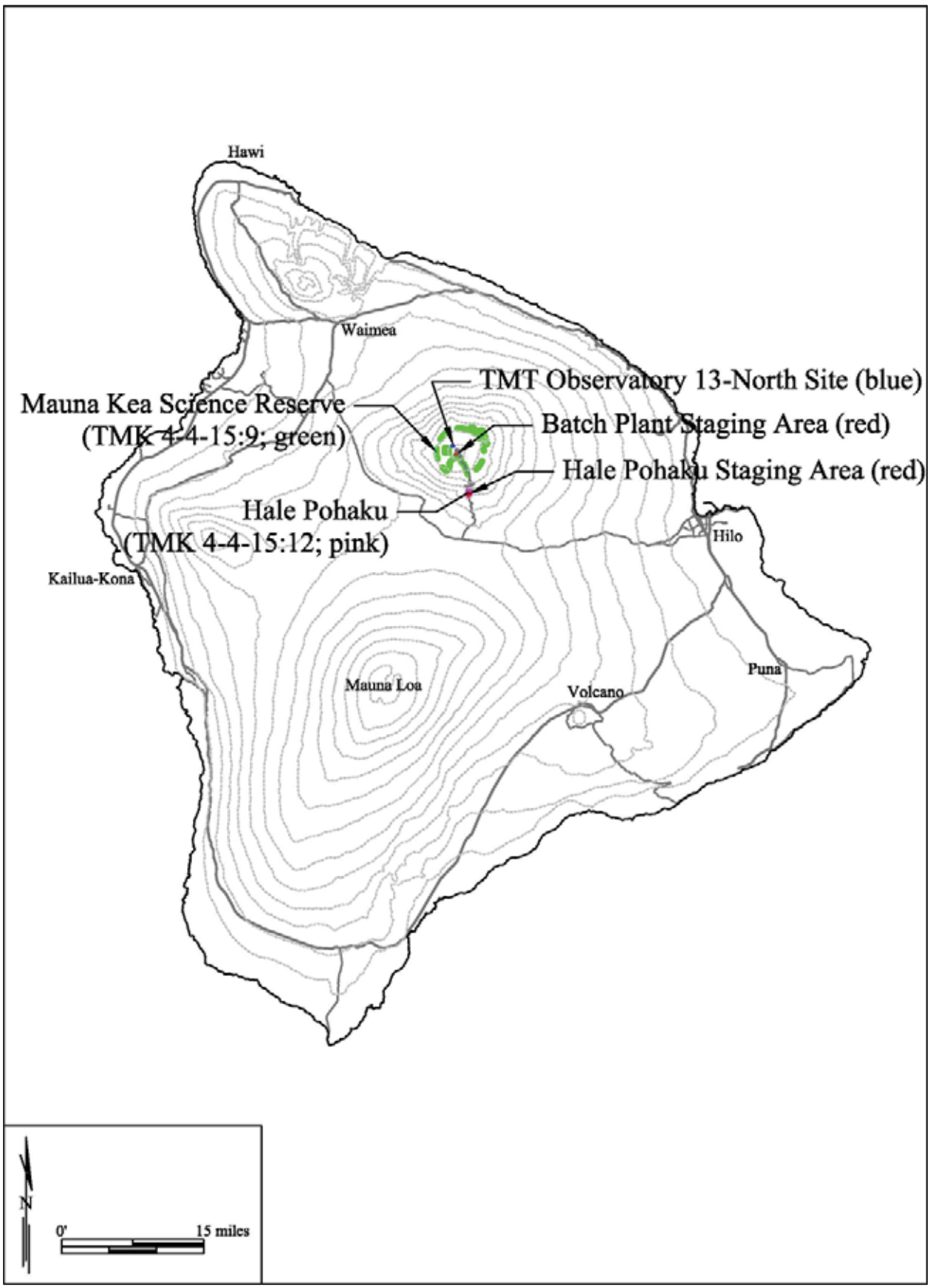


Figure 1: Project Location

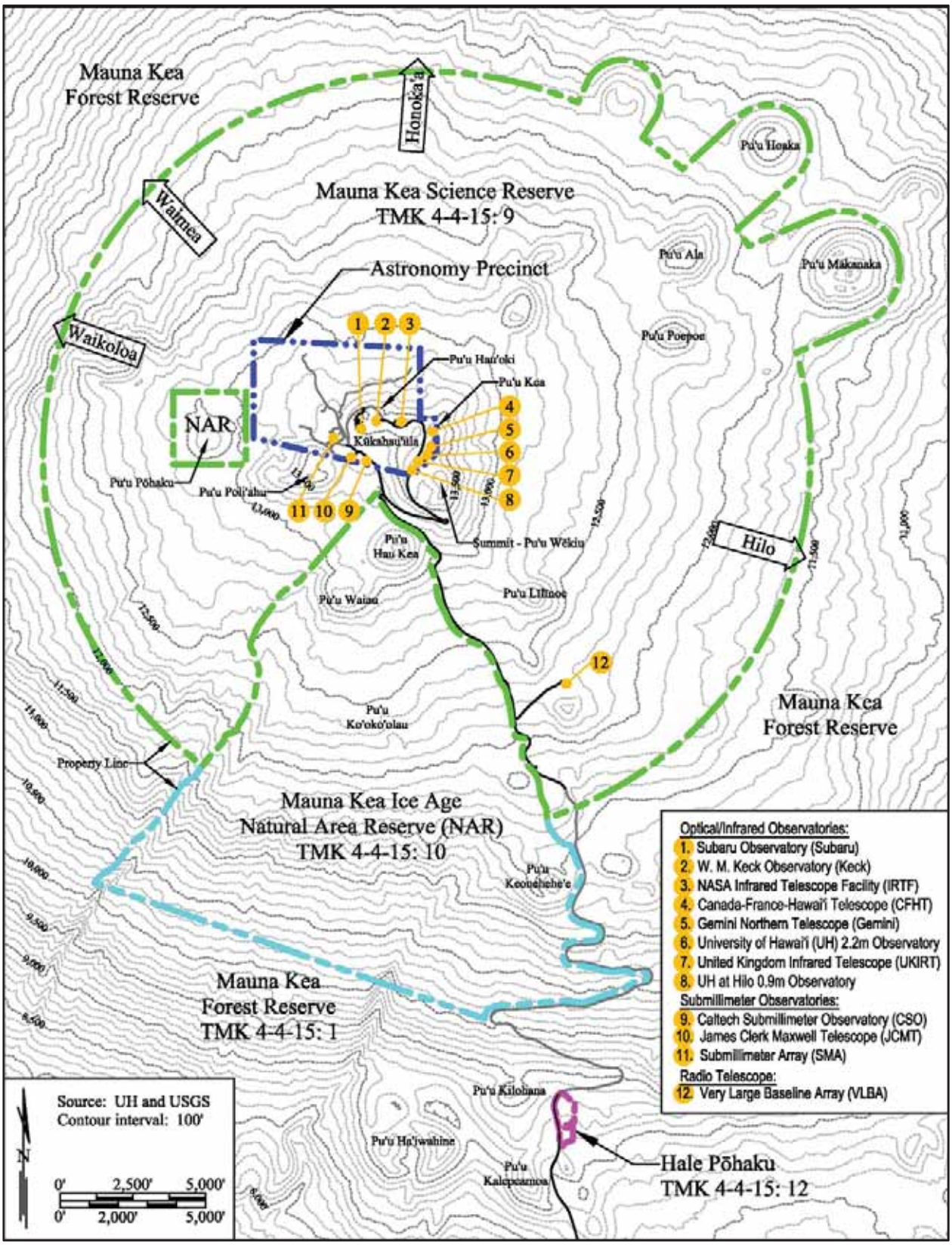


Figure 2: Hale Pōhaku and Astronomy Precinct Location

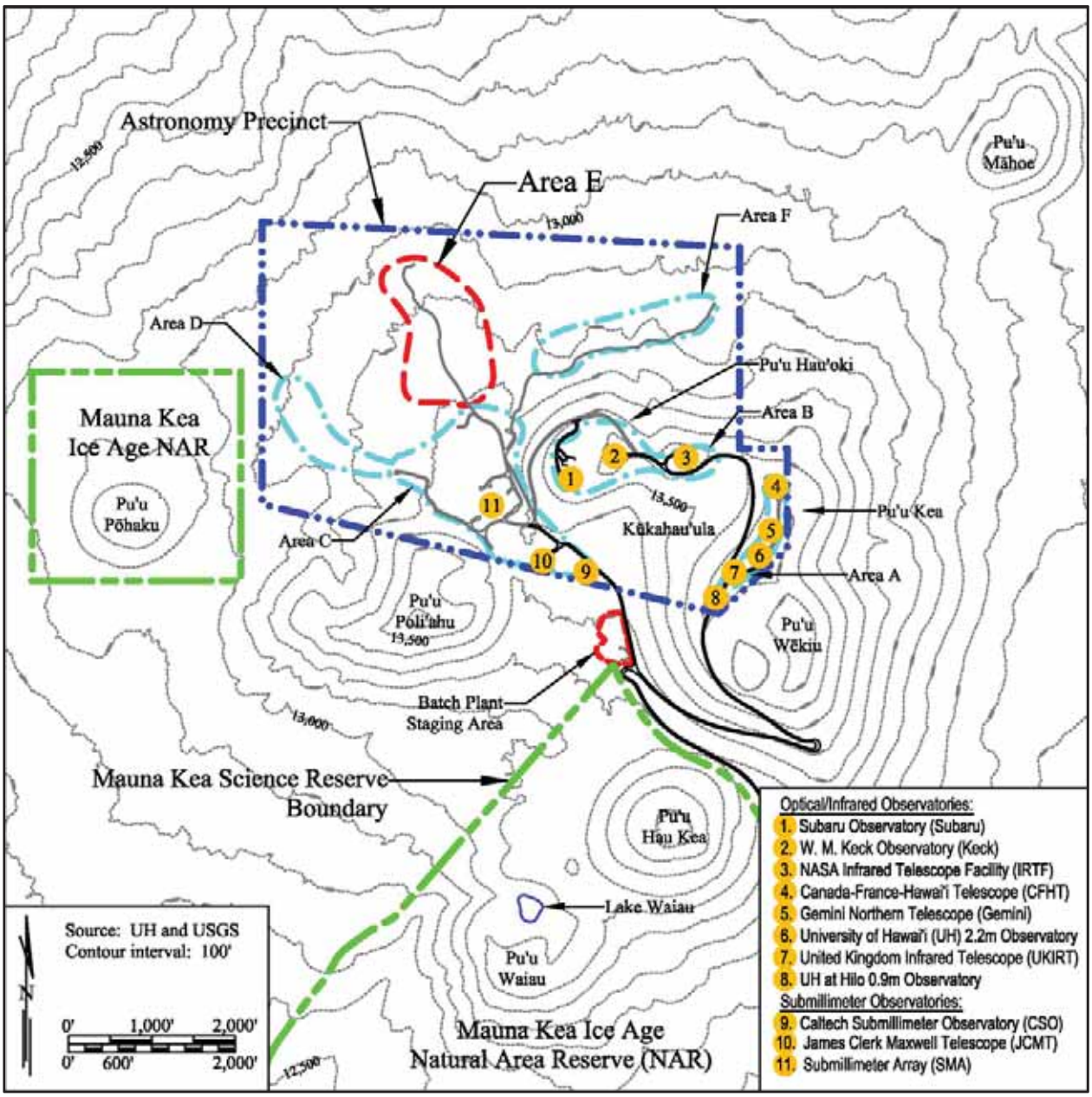


Figure 3: Batch Plant Staging Area Location

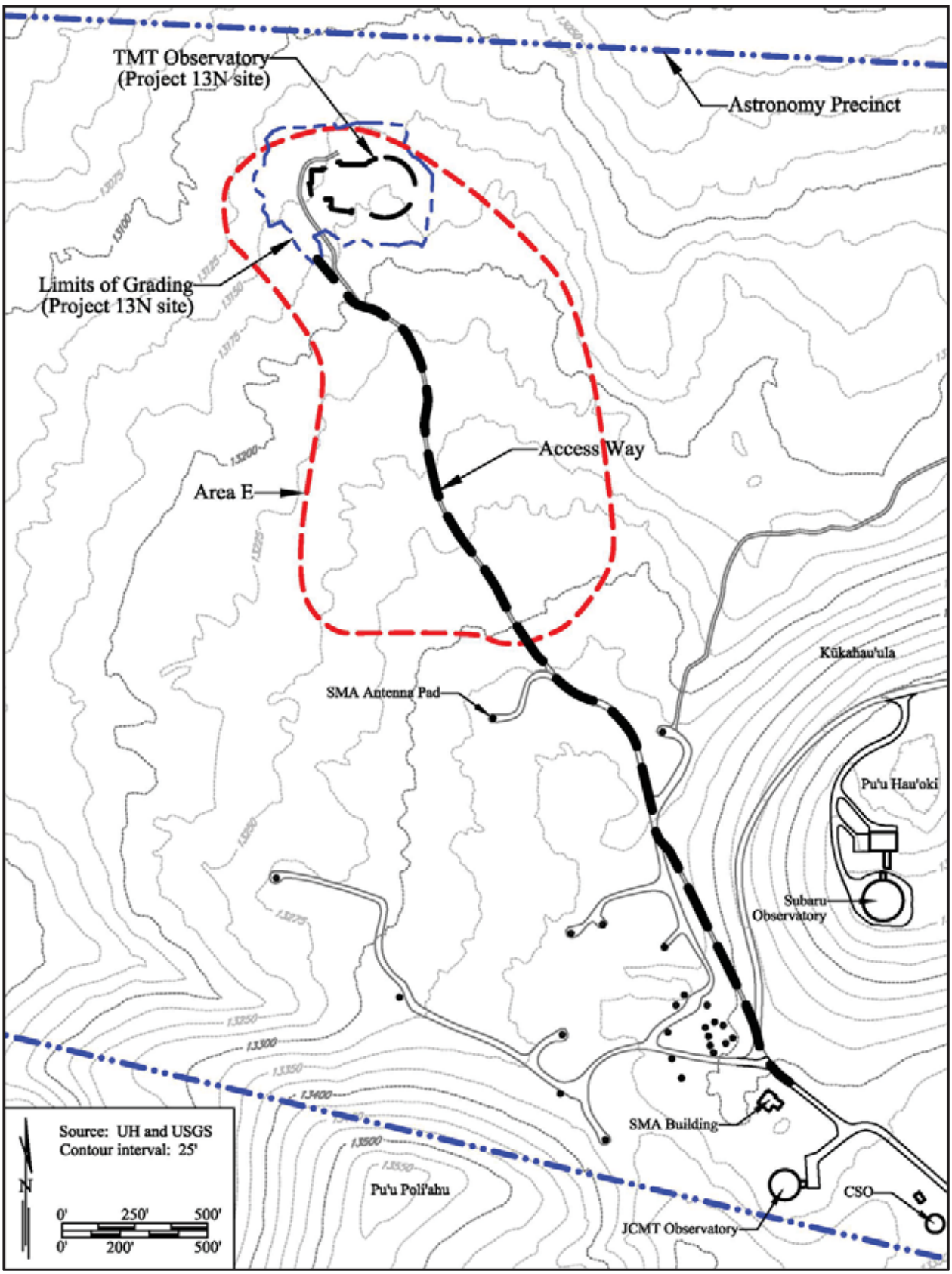


Figure 4: TMT Observatory and Access Way Location

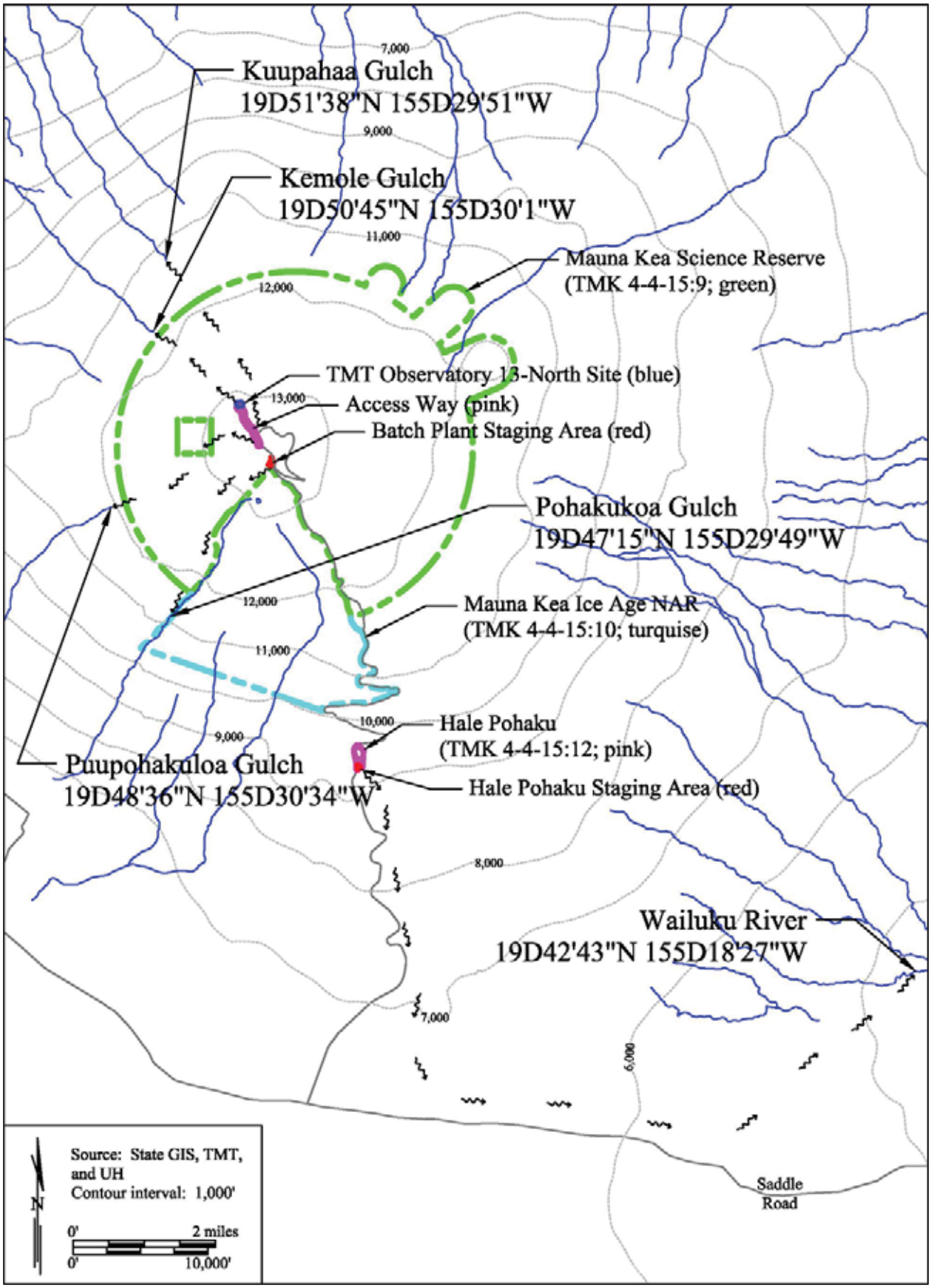
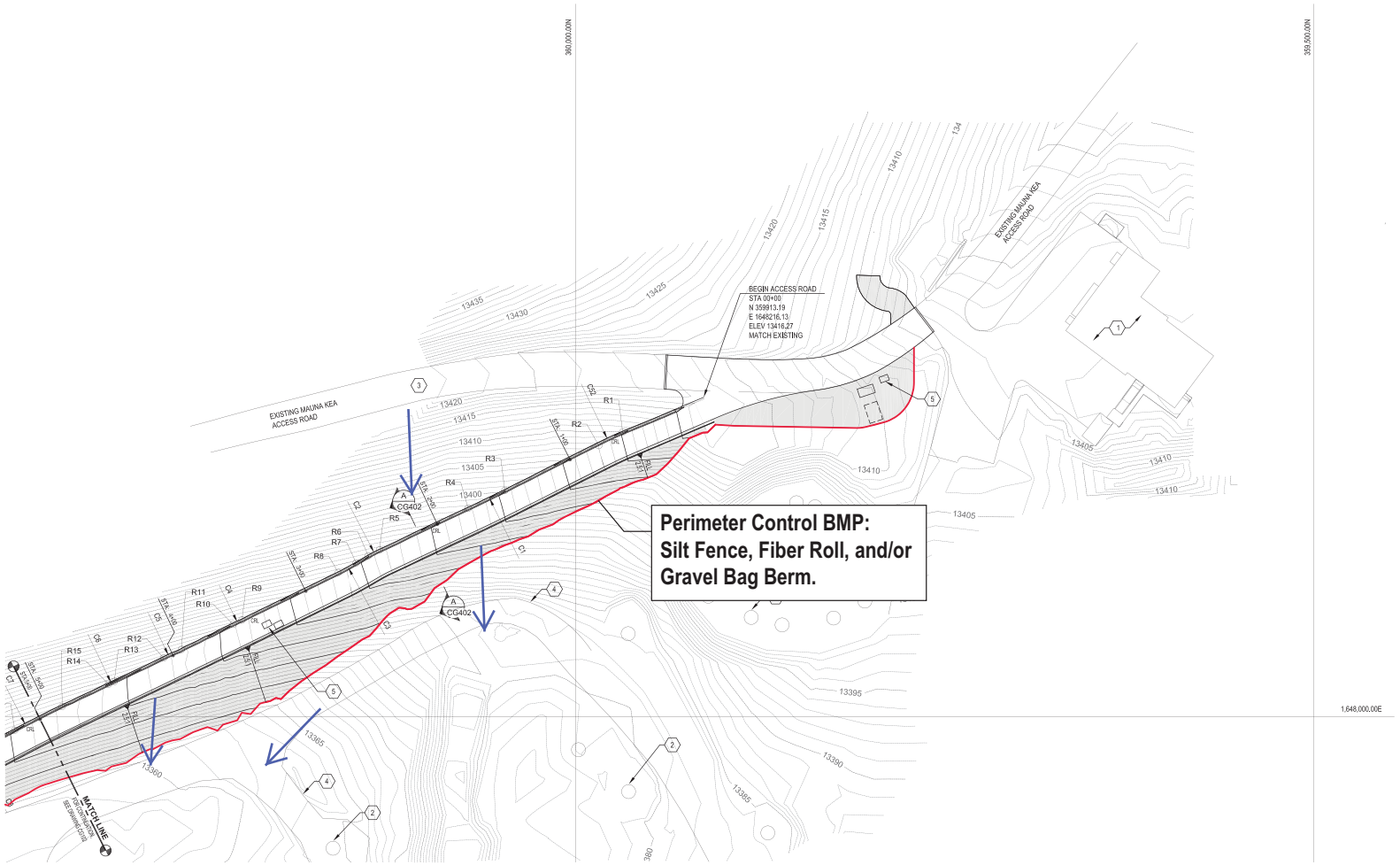


Figure 5: Receiving Waters



KEYNOTES

1. (E) SMA FACILITIES
2. (E) SMA ANTENNA PAD, TYP.
3. (E) SUMMIT ACCESS ROAD
4. (E) SMA SERVICE ROAD
5. TMT COMMUNICATIONS OR ELECTRICAL HAND HOLE - SEE UTILITY PLANS

GENERAL NOTES

1. SEE SHEET CG601 FOR POINT AND CURVE TABLES
2. CONTOUR INTERVALS ARE AT 1.00'
3. CONTRACTOR SHALL FINISH GRADE ALL CUT AND FILL SLOPES ALONG THE ACCESS ROAD AND TMT SITE SO THAT IT APPEARS AND IS SIMILAR TO NATIVE, NATURAL GRADING. PROVIDE SURFACE ROCKS OF DIFFERENT SIZES (FROM THE SITE), VARY GRADE SLOPE (MINIMAL) SO THAT IT APPEARS NATURAL AS REQUIRED AND APPROVED BY TMT AND THEIR SITE REPRESENTATIVE. CONTRACTOR SHALL PROVIDE A 20-FOOT SQUARE MOCK-UP ROCK AREA AT THE CUT AND FILL SIDE AT THE TMT SITE FOR REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF FINAL GRADING.
4. CONTRACTOR SHALL MONITOR & MINIMIZE DISTURBANCE TO EXISTING GRADE BEYOND TOE OF CUT & FILL GRADES AS MUCH AS POSSIBLE.
5. REFER TO UTILITY DRAWINGS (CU101-CU103) FOR LOCATION OF EXISTING SMA UTILITIES. SMA UTILITIES SHALL NOT BE DISTURBED.
6. REFER TO DETAIL 14/CD501 FOR KEY AND BENCH EXCAVATION REQUIREMENTS BETWEEN STATION POINTS STA 00+00 AND STA 6+50.

THIRTY METER TELESCOPE

CIVIL PACKAGE

CONSTRUCTION DOCUMENTS

MAUNA KEA, HAWAII

TMT

Revisions

	Description	Date
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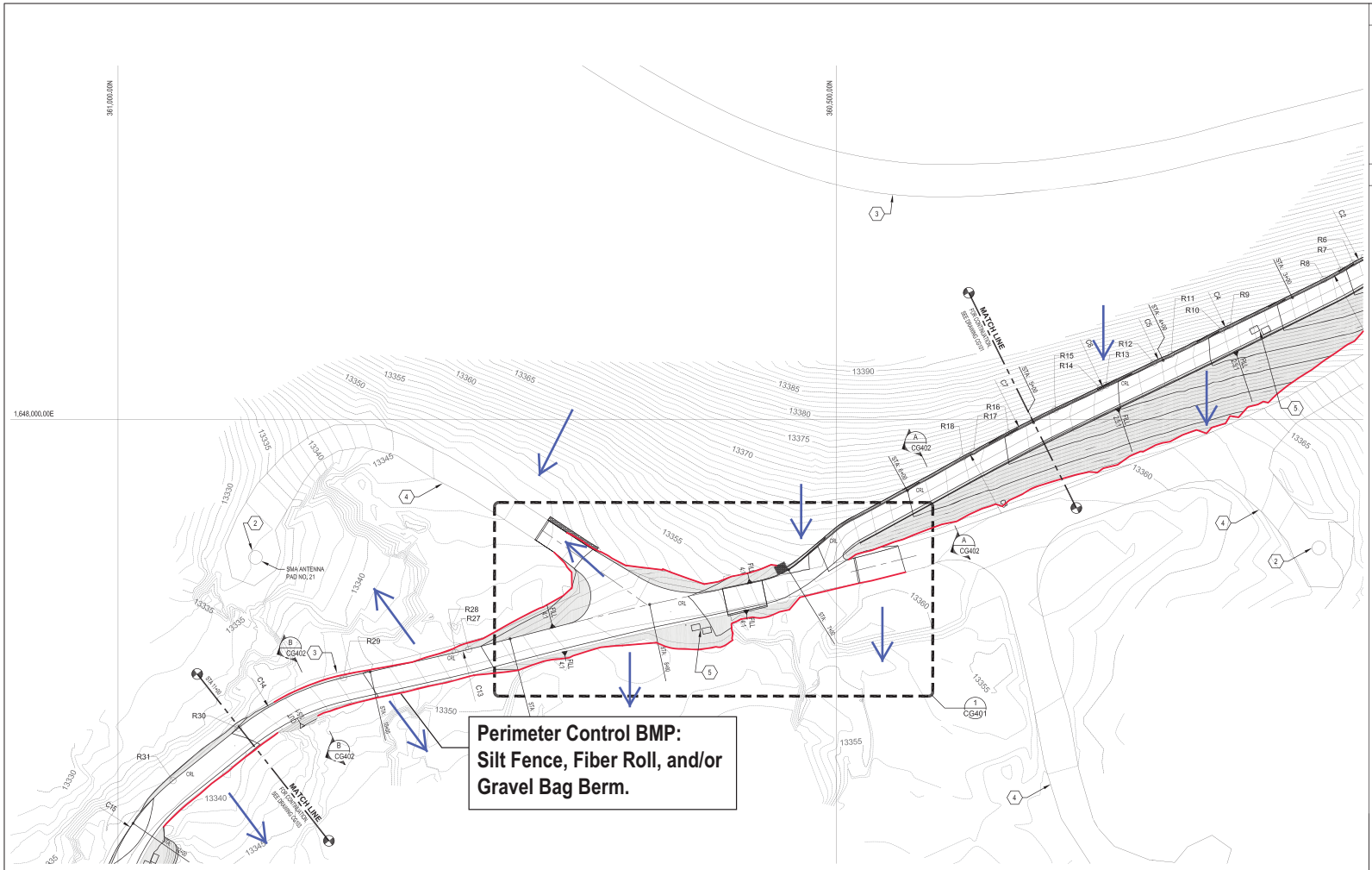
Drawn: GMP
Checked: JTU
Issue Date: 2/28/2014

Drawing Title

ENLARGED GRADING AND SITE DRAINAGE PLAN

Figure 6a



KEYNOTES

1. (E) SMA FACILITIES
2. (E) SMA ANTENNA PAD, TYP.
3. (E) SUMMIT ACCESS ROAD
4. (E) SMA SERVICE ROAD
5. TMT COMMUNICATIONS OR ELECTRICAL HAND HOLE - SEE UTILITY PLANS

GENERAL NOTES

1. SEE SHEET CG601 FOR POINT AND CURVE TABLES
2. CONTOUR INTERVALS ARE AT 1.00'
3. CONTRACTOR SHALL FINISH GRADE ALL CUT AND FILL SLOPES ALONG THE ACCESS ROAD AND TMT SITE SO THAT IT APPEARS AND IS SIMILAR TO NATIVE, NATURAL GRADING. PROVIDE SURFACE ROCKS OF DIFFERENT SIZES (FROM THE SITE), VARY GRADE SLOPE (MINIMAL) SO THAT IT APPEARS NATURAL AS REQUIRED AND APPROVED BY TMT AND THEIR SITE REPRESENTATIVE. CONTRACTOR SHALL PROVIDE A 20-FOOT SQUARE ROCK AREA AT THE CUT AND FILL SIDE AT THE TMT SITE FOR REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF FINAL GRADING.
4. CONTRACTOR SHALL MONITOR & MINIMIZE DISTURBANCE TO EXISTING GRADE BEYOND TOE OF CUT & FILL GRADES AS MUCH AS POSSIBLE.
5. REFER TO UTILITY DRAWINGS (CU101-CU103) FOR LOCATION OF EXISTING SMA UTILITIES. SMA UTILITIES SHALL NOT BE DISTURBED.

THIRTY METER TELESCOPE

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CONSTRUCTION DOCUMENTS

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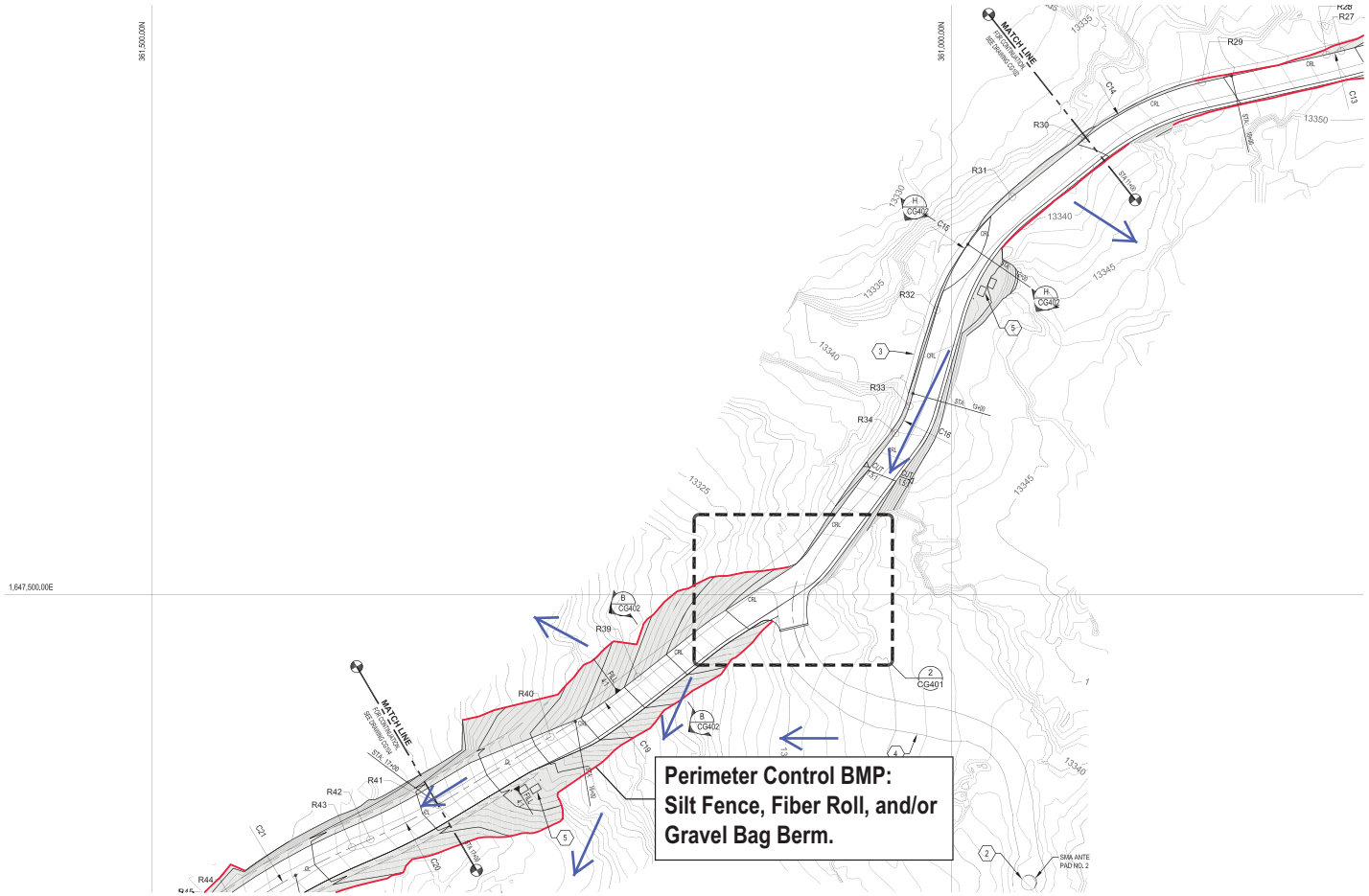
Drawing Title

ENLARGED GRADING AND SITE DRAINAGE PLAN

Figure 6b



KEYNOTES

1. (E) SMA FACILITIES
2. (E) SMA ANTENNA PAD, TYP.
3. (E) SUMMIT ACCESS ROAD
4. (E) SMA SERVICE ROAD
5. TMT COMMUNICATIONS OR ELECTRICAL HAND HOLE - SEE UTILITY PLANS

GENERAL NOTES

1. SEE SHEET CG601 FOR POINT AND CURVE TABLES
2. CONTOUR INTERVALS ARE AT 1.00'
3. CONTRACTOR SHALL FINISH GRADE ALL CUT AND FILL SLOPES ALONG THE ACCESS ROAD AND TMT SITE SO THAT IT APPEARS AND IS SIMILAR TO NATIVE, NATURAL GRADING. PROVIDE SURFACE ROCKS OF DIFFERENT SIZES (FROM THE SITE), VARY GRADE SLOPE (MINIMAL) SO THAT IT APPEARS NATURAL AS REQUIRED AND APPROVED BY TMT AND THEIR SITE REPRESENTATIVE. CONTRACTOR SHALL PROVIDE A 20-FOOT SQUARE ROCK AREA AT THE CUT AND FILL SIDE AT THE TMT SITE FOR REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF FINAL GRADING.
4. CONTRACTOR SHALL MONITOR & MINIMIZE DISTURBANCE TO EXISTING GRADE BEYOND TOE OF CUT & FILL GRADES AS MUCH AS POSSIBLE.
5. REFER TO UTILITY DRAWINGS (CU101-CU103) FOR LOCATION OF EXISTING SMA UTILITIES. SMA UTILITIES SHALL NOT BE DISTURBED.

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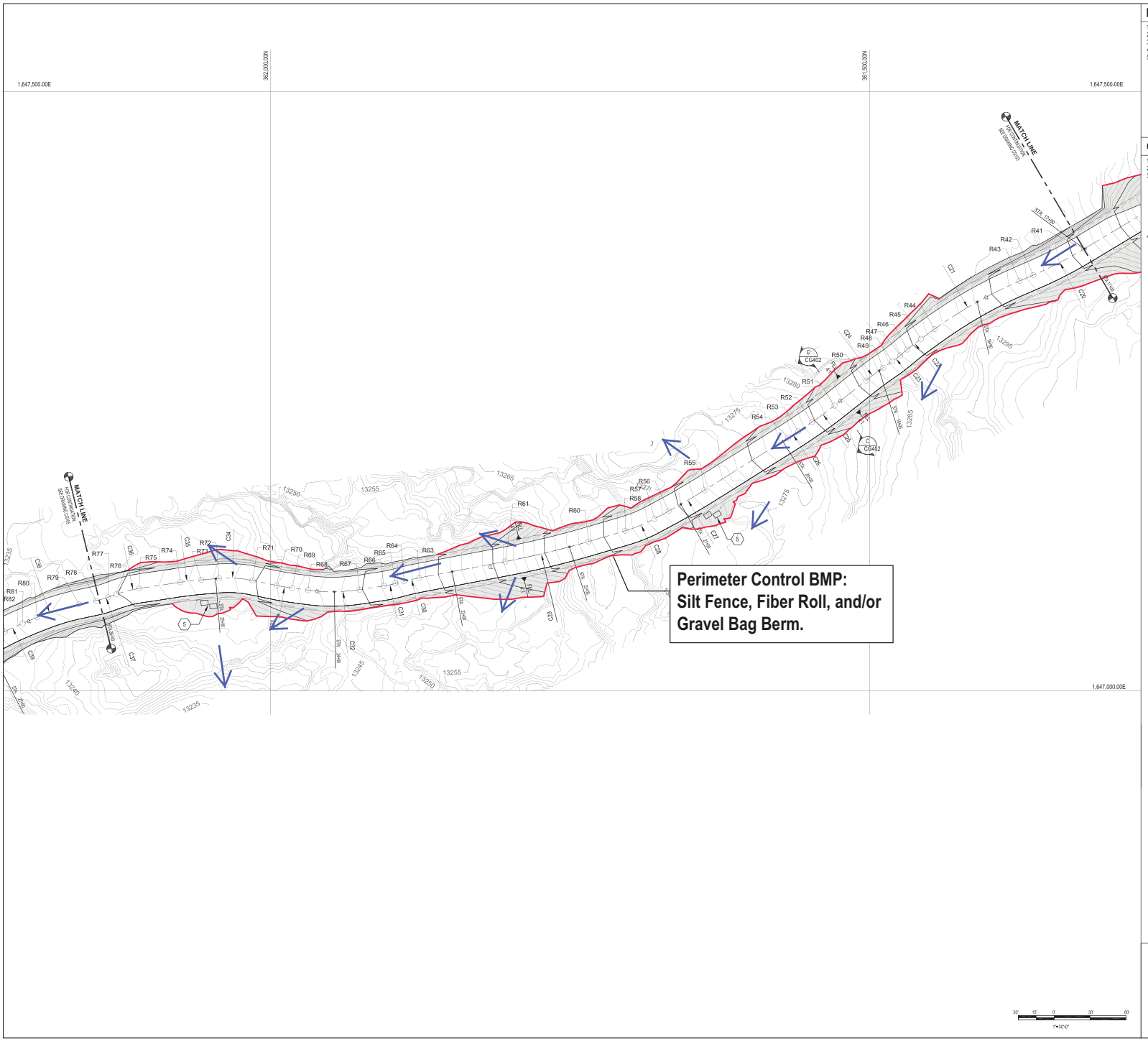
Drawing Title

ENLARGED GRADING AND SITE DRAINAGE PLAN

Figure 6c



KEYNOTES

1. (E) SMA FACILITIES
2. (E) SMA ANTENNA PAD, TYP.
3. (E) SUMMIT ACCESS ROAD
4. (E) SMA SERVICE ROAD
5. TMT COMMUNICATIONS OR ELECTRICAL HAND HOLE - SEE UTILITY PLANS

GENERAL NOTES

1. SEE SHEET CG601 FOR POINT AND CURVE TABLES
2. CONTOUR INTERVALS ARE AT 1.00'
3. CONTRACTOR SHALL FINISH GRADE ALL CUT AND FILL SLOPES ALONG THE ACCESS ROAD AND TMT SITE SO THAT IT APPEARS AND IS SIMILAR TO NATIVE, NATURAL GRADING. PROVIDE SURFACE ROCKS OF DIFFERENT SIZES (FROM THE SITE), VARY GRADE SLOPE (MINIMAL) SO THAT IT APPEARS NATURAL AS REQUIRED AND APPROVED BY TMT AND THEIR SITE REPRESENTATIVE. CONTRACTOR SHALL PROVIDE A 20-FOOT SQUARE ROCK AREA AT THE CUT AND FILL SIDE AT THE TMT SITE FOR REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF FINAL GRADING.
4. CONTRACTOR SHALL MONITOR & MINIMIZE DISTURBANCE TO EXISTING GRADE BEYOND TOE OF CUT & FILL GRADES AS MUCH AS POSSIBLE.

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CONSTRUCTION DOCUMENTS

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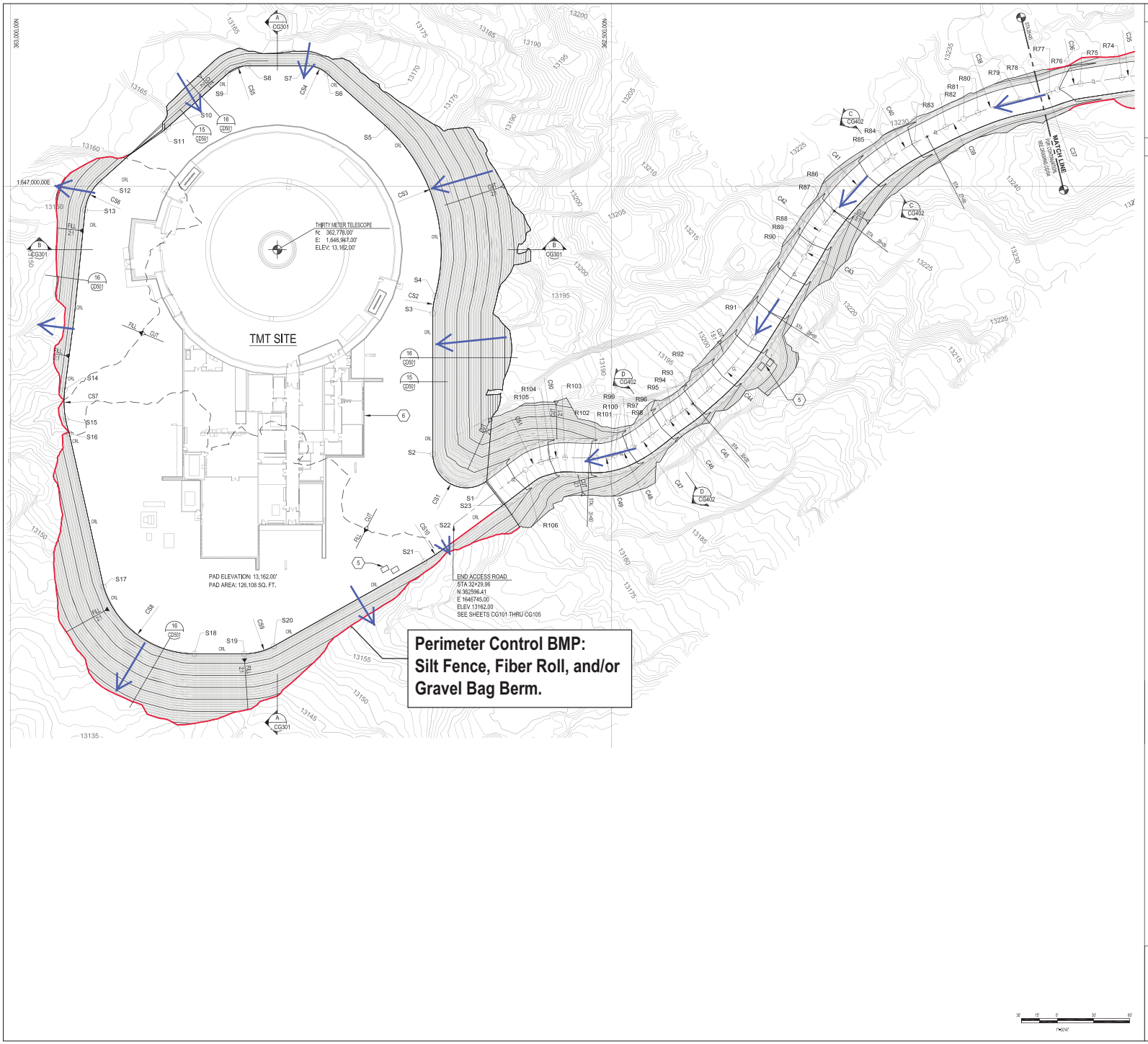
Drawing Title

ENLARGED GRADING AND SITE DRAINAGE PLAN

Figure 6d



KEYNOTES

1. (E) SMA FACILITIES
2. (E) SMA ANTENNA PAD, TYP.
3. (E) SUMMIT ACCESS ROAD
4. (E) SMA SERVICE ROAD
5. TMT COMMUNICATIONS OR ELECTRICAL HAND HOLE - SEE UTILITY PLANS
6. FUTURE TMT FACILITIES

GENERAL NOTES

1. SEE SHEET CG601 FOR POINT AND CURVE TABLES
2. CONTOUR INTERVALS ARE AT 1.00'
3. CONTRACTOR SHALL FINISH GRADE ALL CUT AND FILL SLOPES ALONG THE ACCESS ROAD AND TMT SITE SO THAT IT APPEARS AND IS SIMILAR TO NATIVE, NATURAL GRADING. PROVIDE SURFACE ROCKS OF DIFFERENT SIZES (FROM THE SITE), VARY GRADE SLOPE (MINIMAL) SO THAT IT APPEARS NATURAL AS REQUIRED AND APPROVED BY TMT AND THEIR SITE REPRESENTATIVE. CONTRACTOR SHALL PROVIDE A 20-FOOT SQUARE ROCK AREA AT THE CUT AND FILL SIDE AT THE TMT SITE FOR REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF FINAL GRADING.
4. CONTRACTOR SHALL MONITOR & MINIMIZE DISTURBANCE TO EXISTING GRADE BEYOND TOE OF CUT & FILL GRADES AS MUCH AS POSSIBLE.
5. USE ENGINEERED FILL AT THE TMT SITE (NORTH OF STATION POINT STA 31+86.24).

THIRTY METER TELESCOPE

CIVIL PACKAGE

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MAUNA KEA, HAWAII

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Drawing Title

ENLARGED GRADING AND SITE DRAINAGE PLAN

Figure 6e

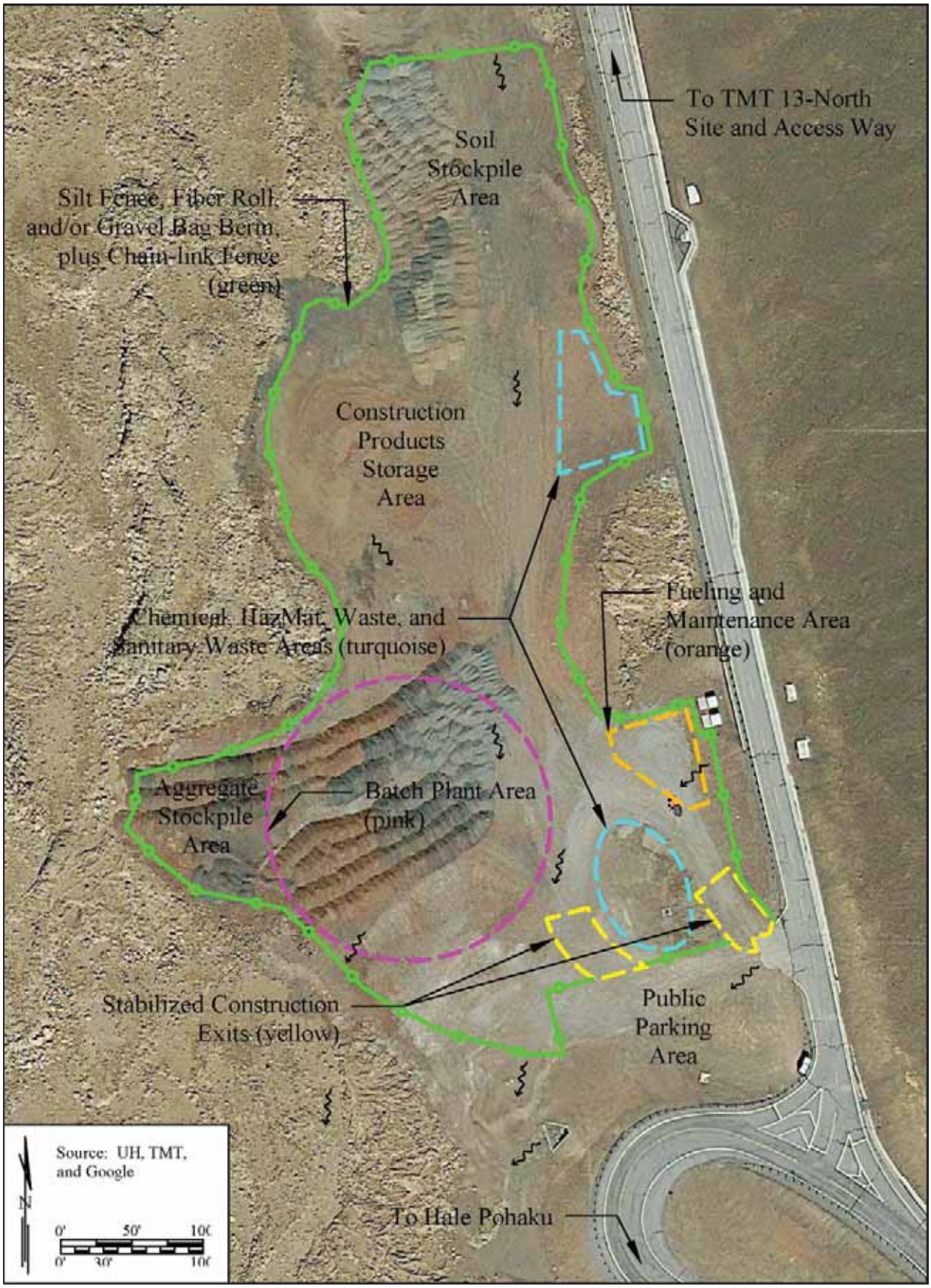

Figure 7: Batch Plant Staging Area BMPs

Figure 8: Hale Pōhaku Staging Area BMPs

CWB Individual NPDES Form - Section 5 (Tax Map Key)

1. Provide all TMK numbers involved in the facility/project. **A minimum of one (1) TMK is required.**
2. You are required to provide the TMK Division, Zone, Section, and Plat. If applicable, provide the Portion, Parcel, or Lot.

Projects/facilities on Oahu: TMK Division = 1.

Projects/facilities on Maui/Molokai/Lanai/Kahoolawe: TMK Division = 2.

Projects/facilities on Big Island: TMK Division = 3.

Projects/facilities on Kauai/Niihau: TMK Division = 4.

Division (Example: 1)	**Zone (Example: 5)**	**Section (Example: 001)**	**Plat (Example: 008)**	**Portion, Parcel, or Lot (Example: Lots 1-10, 15, & 20)**
3	**4**	**4**	15	9 (portion)
3	**4**	**4**	15	12 (portion)