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CARIBBEAN AREA

Natural
Resources
Conservation
Service



EQIP Emergency _ TS Isaías 2020

OCTOBER-2020 ENGINEERING PRACTICES

DAY-2 --CPS #500

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Workshop Objectives

- 1- Understanding the Conservation Practice Standards (CPS) 326 & 500 in Response of Tropical Storm Isaías - EQIP Emergency;**
- 2- Being ready for working in Planning, Inventory & Evaluation, Design, and Construction Phases for both Practices.
(EJAA: I&E, Design, Construction)**



Methodology Day-2: November 4, 2020

PART-2: CPS- 500 – Obstruction Removal

- **Planning**
 - Resource Concern Identification* 
 - Conservation Practice Physical Effects* 
 - Negative Effects Mitigation & Alternatives*
- **Consultation**
 - Section 106 – SHPO* 
 - Section 7 – USF&WL* 
- **Design**
 - Documents Available in the FOTG*
 - Removal and Disposal Methods*
 - Payment Schedule – Scenarios & Costs*
 - Completing the CB-ENG-PLNG-1*
 - Volume Computation*
 - Real Case Example*
- **Certification**
 - Certification of Completion – Certification Sheet*





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CPS - 500 Obstruction Removal (Planning)



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Conservation Practice Physical Effects (CPPE)

Negative Effects of implementing Clearing and Snagging and **Obstruction Removal**

- Sediment transported to surface water
- Elevated water temperature



Mitigation Documentation

Section L, Mitigation. Record actions to avoid, minimize, and compensate for the implementation of the alternatives recorded?

Include here any mitigation measures that are NOT already incorporated in the alternatives that will offset any adverse impacts. This may include conditions included in required permits.

- Briefly describe or reference all mitigation measures to be applied for each alternative.
- Mitigation actions for the preferred (selected) alternative must be included in the conservation plan, designs, and specifications.

Cumulative Effects Narrative (Describe the cumulative impacts considered, including past, present and known future actions regardless of who performed the actions)

L. Mitigation

(Record actions to avoid, minimize, and compensate)

M. Preferred



Mitigation Documentation

Mitigation includes:

- Avoiding the impacts altogether by **not taking a certain action** or parts of an action.
- Minimizing impacts by **limiting the degree of magnitude** of the action and its implementation.
- Rectifying the impact by **repairing, rehabilitating, or restoring** the affected environment.
- Reducing or eliminating impact over time by **preservation/maintenance operations** during action life.
- Compensating for the impact by **replacing or providing substitute** resources or environments.





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CPS - 500 Obstruction Removal (Design)



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Documents Available in FOTG

Obstruction Removal (500)

Documents (5)

Document Title	Type	Pub Date	Subject	Keywords	Abstract
500 CB CPS Obstruction Removal 2020		2020-4-1	--	--	--
500 CB SOW Obstruction Removal 2020		2020-3-2	--	--	--
500 CB OM Obstruction Removal 2020		2020-3-2	--	--	--
500_CB_OM_Obstruction Removal_2020_SPA		2020-10-26	--	--	--
500 CB GD Obstruction Removal 2020		2020-3-2	--	--	--

Nomenclature:

CPS:
Conservation
Practice Standard

SOW: Statement of
Work

OM: Operation and
Maintenance

GD: Guidance
Document



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Conservation Practice Standard



Natural Resources Conservation Service

CONSERVATION PRACTICE STANDARD

OBSTRUCTION REMOVAL

CODE 500

(ac)

DEFINITION

Removal and disposal of buildings, structures, other works of improvement, vegetation, debris or other materials.

PURPOSE

This practice is used to accomplish the following purpose:

- To safely remove and dispose of unwanted obstructions in order to apply conservation practices or facilitate the planned land use

CONDITIONS WHERE PRACTICE APPLIES

On any land where existing obstructions interfere with planned land use development, public safety or infrastructure. This standard is not intended for the removal of obstructions from aquatic environments.

CRITERIA

General Criteria Applicable to All Purposes

Plan, design and implement obstruction removal to comply with all federal, state and local laws and regulations.

Remove obstructions by demolition, excavation or other means required for removal. Dispose of all debris from the obstruction removal so that it does not impede subsequent work or cause onsite or offsite damage.

Dispose of inorganic materials such as rock piles, boulders, stones, concrete or masonry structures and metal or concrete fence posts by reusing, removal or burial at approved locations.

Dispose of organic materials such as wooden fence posts, woody vegetation, and woody building materials by removal to an approved landfill or recycling center, burial at an approved location or burning. Local laws require permitting for burning in the Caribbean Area and for Puerto Rico and is highly restrictive. If burning is used, implement appropriate smoke management to protect public health and safety.

Dispose of trash and non-woody building materials in an approved landfill or recycling center.

When removing buildings, ensure that all utilities, such as gas and electric, have been shut off and disconnected from the structure before beginning demolition.

Prior to any work contact utility companies or the state one call system to identify the location of utility lines in the construction area and to arrange the shut off of utilities if necessary.

NRCS reviews and periodically updates conservation practice standards. To obtain the current version of this standard, contact your Natural Resources Conservation Service State office or visit the Field Office Technical Guide online by going to the NRCS website at <https://www.nrcs.usda.gov/> and type FOTG in the search field.

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STATEMENT OF WORK Obstruction Removal (500) Caribbean Area

These deliverables apply to this individual practice. For deliverables for other planned practices, refer to those specific Statements of Work.

DESIGN

Deliverables

1. Design documentation that demonstrates that the criteria in the NRCS conservation practice standard have been met and are compatible with other planned and applied practices. Include:
 - a. Identification of client needs, documentation of discussion with client, and a recommended method of resolution.
 - b. Practice purpose(s) as identified in the conservation plan.
 - c. Location of planned practice installation shown on a farm or ranch plan map.
 - d. List of required permits to be obtained by the client.
 - e. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06).
 - f. List of facilitating practices.
 - g. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
 - i. Disposal
 - ii. Erosion Control
2. Written plans and specifications including sketches and drawings shall be provided to the client that adequately describes the requirements to install the practice and obtain necessary permits.
3. Operation and Maintenance Plan signed by the client/farmer.
4. Certification that the design meets NRCS standards and specifications and is in compliance with applicable laws and regulations (NEM Part 505 - Non-NRCS Engineering Services, Subpart A - Introduction, 505.0 and 505.3).
5. Design modifications during installation as required.
6. Engineering job classification is shown and proper engineering approval is obtained.

INSTALLATION

Deliverables

1. Pre installation conference with client and contractor.
2. Verification that client has obtained required permits.
3. Staking and layout according to plans and specifications including applicable layout notes.
4. Installation inspection (according to inspection plan as appropriate).
 - a. Actual materials used.
 - b. Inspection records.
5. Facilitate and implement required design modifications with client and original designer.
6. Advise client/NRCS on compliance issues with all federal, and local laws, regulations and NRCS policies during installation.
7. Certification that the installation process and materials meets design and permit requirements.

Statement of Work





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OBSTRUCTION REMOVAL CODE 500

Caribbean Conservation Practice Guidance Documents

Cooperator Name	County	Farm/Tract/Field(s)	Date
Planner	Program/Contract No. (if applicable)		Amount Planned

The items below shall be recorded in the conservation plan, conservation notes or an approved form as minimum documentation requirements for a practice:

1. Location and Site Investigation

- ☐ Environmental Checklist Form (CB-EVC-2)
- ☐ Form CB-ENG-PLNG-1, Engineering Planning Consideration Checklist and Guide
- ☐ Conservation Plan Map
- ☐ Location Map (Topographic Quadrangles)
- ☐ Aerial Photos
- ☐ Surveying Plat (Property Limits)
- ☐ Flooding Maps (FEMA)
- ☐ SHPO - Cultural Resources Inventory
- ☐ Maps from Utilities Co. Providers

References:

- TR-1, Form CB-ENG-PLNG-1, Engineering Planning Consideration Checklist and Guide
- NRCS, GM 420, Part 401, Cultural Resources
- USGS Topographic Quadrangles

2. Engineering Survey

- ☐ Form SCS-ENG-28
- ☐ Form SCS-ENG-29
- ☐ Surveying Computer Programs
- ☐ Drafting Computer Programs

References:

- 210-VI-TR-82, Engineering Layout, Notes, Staking and Calculations
- 210-VI-NEH-850.01, EFH Chapter 1, Engineering Survey

3. Soils/Geology Investigation

- ☐ Geologic Maps
- ☐ Soil Boring - Form CB-ENG-016, Site Investigation Log Sheet
- ☐ Conservation Plan Soil Map
- ☐ Soil Testing Lab (Optional)
- ☐ Log Test Pit

References:

- NRCS Area Soil Survey
- TR-1, Form CB-ENG-016, Site Investigation Log Sheet
- Unified Soil Classification Chart

4. Engineering Criteria

References:

- CB FOTG Sec. IV, Code 500, Obstruction Removal
- CB FOTG Sec. IV, Code 342, Critical Area Planting

Good
Document
for
Planning

Guidance Document





Operation & Maintenance Plan
500_CB_OM_Obstruction Removal_2020_SPA (Code 500)

Expected Lifespan

The minimum expected lifespan of this practice is at least 10 years.

Es requerido realizar inspecciones y mantenimiento para lograr el propósito, los beneficios y la vida útil de esta práctica. El Propietario/Operador es responsable de establecer e implementar un Plan para la Operación y Mantenimiento (Plan O&M). Los usos originales previstos para esta práctica no se pueden variar. Al firmar este documento, reconozco haber leído y entendido los términos de este Plan O&M.

Firma:

Propietario/Operador: _____ Fecha: _____

Operation and Maintenance (Spanish)

Operación se refiere a operar esta práctica en cumplimiento con todas las leyes, reglamentos, ordenanzas y servidumbres; de manera tal que resulte en el menor impacto adverso al ambiente permitiendo que esta práctica sirva al propósito para el cual fue establecida. Mantenimiento incluye los trabajos para prevenir que la práctica se deteriore, reparar los daños o reemplazar los componentes que fallen.

La práctica de Remoción de Obstrucción es de beneficio para la finca. Tiene como propósito remover y disponer de obstrucciones no deseadas. Con un adecuado plan de operación y mantenimiento, los beneficios de esta práctica deben ser permanentes. Los beneficios de la vida de este sistema pueden ser garantizados y usualmente maximizados mediante el desarrollo y poniendo en práctica un buen programa de operación y mantenimiento.

Entre las tareas o áreas que deberá inspeccionar y dar mantenimiento durante los **10-años de vida útil** de esta práctica se incluyen, pero no se limitan a lo siguiente:

- Resanar o re-nivelar el terreno; o de algún otro modo controlar la erosión del lugar.
- Mantener el crecimiento vigoroso de la cubierta vegetativa deseable en las áreas que fueron perturbadas. Resembrar y fertilizar según sea necesario para mantener una cubierta vegetativa estable y en crecimiento.
- Remover roedores y/o los animales que pudieran construir madrigueras. Reparar cualquier daño causado por este tipo de acción. Reparar cualquier daño causado por vandalismo, vehículos o causado por los animales.



CB-ENG-PLNG-1

(Section G)

G – OBSTRUCTION REMOVAL (Practice Code 500) - PLANNING DATA

Client: _____

Date: _____

1. TYPE OF OBSTRUCTION: This practice is used for the removal and disposal of buildings, structures, other work of improvement, vegetation, debris, or other materials. Based on the Payment Schedule, these are the scenarios and payment units:

- Scenario #1: Brush and Trees < 8 inch diameter (Acre)
- Scenario #2: Brush and Trees > 8 inch diameter (Acre)
- Scenario #3: Steel and/or Concrete Structures (Sq.Ft.)
- Scenario #4: Wood Structures (Sq.Ft.)

Description of Obstruction (Type and Material)	Estimated Area (Sq.Ft. or Acre)	LOCATION (Number of farm plot where it is located)

2. Options considered before disposal of materials removed:

a. REUSE - Type of Material _____ Amount: _____

b. RECYCLING - Type of Material _____ Amount: _____

3. Place for final disposal of removed materials:

- a. On-Site:

• REUSE - Type of Material _____ Amount: _____

• RECYCLING - Type of Material _____ Amount: _____

- b. Outside

• Landfill _____

• Other Place _____

INCLUDE THE CONSERVATION PLAN MAP SHOWING THE ACTUAL LOCATION OF THE OBSTRUCTION, AND IDENTIFYING ON THE MAP'S LEGEND THE TYPE OF MATERIAL TO BE REMOVED.



Obstruction Removal (CPS-500)

DEFINITION

Removal and disposal of buildings, structures, other works of improvement, vegetation, debris or other materials.



Obstruction Removal (CPS)

PURPOSE

To safely **remove and dispose** of unwanted obstructions in order to apply conservation practices or facilitate planned land use.

*** This practice is not intended for the removal of obstructions from aquatic environments.*





Removal Methods

Dozing

Excavating

Sawing

Demolition

Other

Disposal Methods

- ✓ Reusing or Recycling
- ✓ Wood chipping
- ✓ Burial at an approved site
- ✓ Approved Landfill
- ✓ Recycling Center

**** *Burning in the CB is highly restricted.***

**Important
Note taken
from CPS-500**



OPERATION AND MAINTENANCE

Prepare an operation and maintenance (O&M) plan for the operator. O&M for this practice may be addressed in the O&M plans for the practice it supports. The minimum requirements to be addressed in the operation and maintenance plan are:

Periodic checking to ensure the site remains stable after the obstruction removal.

When disposal of debris occurs on site, periodic checking to ensure that the disposal site remains stable.

Repair any problems as soon as possible.

CPS-500 – Payment Schedule Scenarios

FY-2020

Removal and Disposal of :

#1- Brush and Trees < 6-in. Diameter (Ac) → **Unit Cost:
\$1,111.32 / Ac**

#2- Brush and Trees > 6-in. Diameter (Ac) → **Unit Cost:
\$2,227.14 / Ac**

#3- Steel and/or Concrete Structures (Sq.Ft.) → **Unit Cost:
\$11.90 / Sq.Ft.**

#4- Wood Structures (Sq.Ft.) → **Unit Cost:
\$6.49 / Sq.Ft.**

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Scenario #1:

Removal and Disposal of Brush and Trees < 6-inch Diameter



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Scenario #2:

Removal and Disposal of Brush and Trees > 6-inch Diameter



Scenario #3:

Removal and Disposal of Steel and or Concrete Structures



Total Removal



Partial Removal

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Scenario #3 (Cont.):

Removal and Disposal of Steel and or Concrete Structures



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Scenario #4:

Removal and Disposal of Wood Structures



Completing the CB-ENG-PLNG-1 Section G

Be sure to identify the **LOCATION** of the Material to be **REMOVED** (Field / Tract ID). It shall be separated per **PLOTS** equivalent to Contract Items.

Identify the **TYPE** and **Amount** of Material to be **REUSED** or **RECYCLED**

Identify the **TYPE** and **Amount** of Material to be **DISPOSED** off of the Farm
**** Remember to note the LANDFILL to be used.**

Remember to Add a **MAP** (Record the **COORDs**) and **PICTURES** (Before & After)

G – OBSTRUCTION REMOVAL (Practice Code 500) - PLANNING DATA

Client: **CLIENT's NAME** Date: **VISIT DATE**

1. TYPE OF OBSTRUCTION: This practice is used for the removal and disposal of buildings, structures, other work of improvement, vegetation, debris, or other materials. Based on the Payment Schedule, these are the scenarios and payment units:

- Scenario #1: Brush and Trees < 6 inch diameter (Acre)
- Scenario #2: Brush and Trees > 6 inch diameter (Acre)
- Scenario #3: Steel and/or Concrete Structures (Sq.Ft.)
- Scenario #4: Wood Structures (Sq.Ft.)

Description of Obstruction (Type and Material)	Estimated Area (Sq.Ft. or Acre)	LOCATION (Number of farm plot where it is located)

2. Options considered before disposal of materials removed:

- a. REUSE - Type of Material _____ Amount: _____
- b. RECYCLING - Type of Material _____ Amount: _____

3. Place for final disposal of removed materials:

- a. On-Site:
- REUSE - Type of Material _____ Amount: _____
 - RECYCLING - Type of Material _____ Amount: _____
- b. Outside
- Landfill _____
 - Other Place _____

INCLUDE THE CONSERVATION PLAN MAP SHOWING THE ACTUAL LOCATION OF THE OBSTRUCTION, AND IDENTIFYING ON THE MAP'S LEGEND THE TYPE OF MATERIAL TO BE REMOVED.



OBSTRUCTION REMOVAL CODE 500

Caribbean Conservation Practice Guidance Documents

Cooperator Name	County	Farm/Tract/Field(s)	Date
Planner	Program/Contract No. (if applicable)	Amount Planned	

The items below shall be recorded in the conservation plan, conservation notes or an approved form as minimum documentation requirements for a practice:

1. Location and Site Investigation

- ☐ Environmental Checklist Form (CB-EVC-2)
- ☐ Form CB-ENG-PLNG-1, Engineering Planning Consideration Checklist and Guide - Section G
- ☐ Conservation Plan Map
- ☐ Location Map (Topographic Quadrangles) } - Showing the LOCATION of Obstruction to be REMOVED
- ☐ Aerial Photos
- ☐ Surveying Plat (Property Limits)
- ☐ Flooding Maps (FEMA)
- ☐ SHPO - Cultural Resources Inventory - As part of the CPA-52
- ☐ Maps from Utilities Co. Providers - Ask a copy to the Farmer / Contractor

References:

- TR-1, Form CB-ENG-PLNG-1, Engineering Planning Consideration Checklist and Guide
- NRCS, GM 420, Part 401, Cultural Resources
- USGS Topographic Quadrangles

2. Engineering Survey

- ☐ Form SCS-ENG-28
 - ☐ Form SCS-ENG-29
 - ☐ Surveying Computer Programs
 - ☐ Drafting Computer Programs
- If necessary, you can use a SF-SCS-ENG-28 + 29 for making a drawing of the AREA to be cleared, showing DIMENSIONS (L x W x H) or Acreage.

References:

- 210-VI-TR-62, Engineering Layout, Notes, Staking and Calculations
- 210-VI-NEH-650.01, EFH Chapter 1, Engineering Survey

3. Soils/Geology Investigation

- ☐ Geologic Maps
 - ☐ Soil Boring - Form CB-ENG-016, Site Investigation Log Sheet
 - ☐ Conservation Plan Soil Map
 - ☐ Soil Testing Lab (Optional)
 - ☐ Log Test Pit
- Remember to add a SOIL MAP, it is always part of the Conservation Plan. However, give special attention to the Soil Map of Disposal Area if it will be located within the farm.

References:

- NRCS Area Soil Survey
- TR-1, Form CB-ENG-016, Site Investigation Log Sheet
- Unified Soil Classification Chart

4. Engineering Criteria

References:

- CB FOTG Sec. IV, Code 500, Obstruction Removal
- CB FOTG Sec. IV, Code 342, Critical Area Planting

- Remember to add "Seeding and Mulching" (Critical Area Planting) in all disturbed areas, as needed.

Guidance Document



Guidance Document

5. Drafting and Drawings

- ☐ Drafting Computer Programs Output
- ☐ Sketches and Drawings

References:

- 210-VI-NEH-850.05, EFH Chapter 5, Preparation of Engineering Plans
- 210-VI-TR-73, Computer Aided Design and Drafting (CADD) Standards

- Remember to add a SKETCH DRAWING of the area to be cleared. It could be a diagram showing the dimensions of the structure; a Conservation Map showing the plots of crops damaged ready to be removed; or an aerial photo showing the "spots" where the debris are stockpiled ready to be removed.
- Add one more drawing for showing WHERE THE MATERIAL WILL BE DEPOSITED for Reuse, Recycle or Decompose.

6. Engineering Cost Estimates

References:

- CB FOTG Section I, Cost Data
- Local Suppliers Material Cost List

- Chose the COST based on the applicable scenario as shown in the Payment Schedule Table.

7. O&M and Safety

- ☐ Operation and Maintenance Plan

References:

- Caribbean Area FOTG – 500_CB_OM_Obstruction Removal
- OSHA Reference Manuals
- Manufacturer's Recommendations

- Remember to PRINT 2 copies of the O&M Plan, keeping one signed copy in the NRCS Client's File.

8. Construction Materials and Specifications

References:

- 210-VI-NEH-850.17, EFH Chapter 17, Construction and Construction Materials
- 210-VI-NEH - Part 842, Specifications for Construction Contracts
- ASTM Standard Specifications

- In the CPSA-6, add a good description of the type of materials or buildings, to be removed, and the removal method used. Always add PICTURES.

9. Installation and Certification

- ☐ Certification that application meets NRCS standards and specifications

References:

- 210-VI-NEH-19, Section 19, Construction Inspection

- Use the Implementation Requirement and Certification Form (IR) for completing the CERTIFICATION Process.





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CPS - 500 Obstruction Removal (Implementation Certification)



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NRCS CB ENGINEERING JOB APPROVAL AUTHORITY

Name: _____

Date: _____

STREAM CHANNEL												Designs completed in the last 10 years	Need Training
Practice Code	Practice Name	Controlling Factor	Units	Job Class					Maximum Approval Limits				
				I	II	III	IV	V	I & E	Design	Constr		
326	Clearing & Snagging	Drainage Area	Acres	5	100	10,000	64,000	All					
		Length of Reach	Feet	500	1,000	5,000	15,000	All					
584	Channel Bed Stabilization	Length of Reach	Feet	500	1,000	5,000	15,000	All					
356	Dike	Water Height	Feet	None	3	6	10	12					
		Hazard	Class	None	III	III	III	III					
460	Land Clearing	Area	Acres	5	10	50	160	All					
555	Rock Barrier	Length	Feet	50	250	500	1,000	All					
582	Open Channel	Capacity	Cfs	50	150	300	500	1000					
		Design Velocity	Fps	2	3	4	5	10					
580	Stream Bank and Shoreline Protection	Stream Banks											
		Drainage Area	Acres	5	10	100	10,000	64,000					
		Bankfull Capacity	Cfs	50	200	500	1,500	2,000					
		Flow Velocity	Fps	1	2	5	10	>10					
		Channel Depth at Low Bank	Feet	2	4	6	8	10					
572	Spoil Spreading	Length of Channel	Feet	1,000	2,500	5,000	10,000	All					
		Effective Height	Feet	15	20	25	30	35					
578	Stream Crossing	Drainage Area	Acres	10	100	1,000	2,500	All					
		Height of Bank	Feet	4	6	8	10	All					
		Culvert Pipe, ID	Inches	18	24	48	60	72					
LAND RECLAMATION													
466	Land Smoothing	Area	Acres	5	10	50	200	All					
		Average Slope	Percent	5	10	20	50	All					
500	Obstruction Removal	Area Cleared	Acres	5	10	50	200	All					



CERTIFICATION OF COMPLETION CPS-500

Describe the Type of MATERIAL to be removed.

Provide a brief description of the work.

i.e. "An area approx. equal to 3.5 Acres was severely impacted by the winds and rainfall caused by TS Isaias. The resulting material is affecting the planting areas and farm operations requiring to be removed."

Print the O&M Plan we prepared, also keep a signed copy for NRCS' file.

Remember to DOCUMENT everything



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**OBSTRUCTION REMOVAL
CODE 500**

Conservation Practice Implementation Requirements and Certification

Cooperator Name	County	Planner	Date
CLIENT NAME	TOWN	PLANNER	DATE
Farm / Tract/ Field (s)	Program/ Contract No. (if applicable)	Amount Planned	
FIELD/TRCAT ID.	EQIP	AREA	Feet
Purpose (check all that apply)			
☐ Safe removal and/or disposal of unwanted material (e.g. debris, building, etc.). Material Composition: ☐ Vegetative ☐ Trash ☐ Sediments ☐ Metals ☐ Other _____			
Site Conditions and Brief Description of Work			
OPERATION AND MAINTENANCE Prepare an Operation and Maintenance Plan (O&M Plan) for the operator. O&M for this practice may be addressed in the O&M Plans for the practice it supports. Refer to Caribbean Area O&M documentation for this practice located in the FOTG: 500_CR_OM_Obstruction Removal 2020 (Spanish versions are also available_SPA).			
CERTIFICATION			
Supporting Documentation (for file)			
☐ Map showing practice location		☐ Pictures taken	
		GPS Coordinates: ☐ Lat.: _____ Long.: _____	



Map Sketch (if needed):

Drawings can be made on the Conservation Plan Map identifying debris removed location.

Prepare a Sketch Drawing.

Identify the way farmer used for dispose of materials.

Check your own EJAA to verify if you have enough authority for CERTIFICATION of COMPLETION

Complete accordingly.

Be sure that it is CERTIFIED by someone with appropriate EJAA

Check everything is well documented in NRCS' FILES.

Practice inspection certify:

- ☐ Removal of debris manually, by dozing, excavation or other means required.
- ☐ Dispose of all debris so that it does not impede subsequent work or cause onsite or offsite damage.
 - ☐ Removal to an approved landfill;
 - ☐ Wood chipping and land distribution;
 - ☐ Transported to recycling center;
 - ☐ Burial at an approved location;
 - ☐ Recycling or Reusing.

* Burning of debris is NOT permitted for used.

** Removal and disposition of debris in order to apply conservation practices or facilitate the planned land use.

*** Debris removal will address the resource concerns of the prevention or hindrance to the installation of conservation practice or present a hazard to their use and enjoyment.

ENGINEERING JOB APPROVAL AUTHORITY										
Practice Code	Practice Name	Controlling Factor	Units	Job Class					Maximum Approval Limits	
				I	II	III	IV	V	I & E	Design
500	Obstruction Removal	Area Cleared	Acres	5	10	50	200	All		

Planned by: _____ This practice was planned according to NRCS standards and specifications. Planner Designation: _____ Signature by Planner with appropriate EJAA _____ Date _____	Site Inspected by: _____ This practice was applied according to NRCS standards and specifications. Amount: _____ Date: _____ Inspector Signature _____ Date _____
--	---

Reporting Checklist (NRCS Only):

- ☐ CPA-06 Notes
- ☐ File copy of completed IR Sheet
- ☐ Report in CART
- ☐ Other reporting tools (optional)

Certified by: _____
 This practice was applied according to NRCS standards and specifications.

 Amount: _____ Date: _____

 Signature by individual with appropriate EJAA _____ Date _____



✓ Place an (X) on all that apply:

- ✓ During the inspection you will certify that the debris has been removed from the area of interest.
- ✓ You will indicate the process of disposal used by producer. Several methods are included in the worksheet. As appears on the practice standard, disposal can be done by:
 - ✓ Removal and transport to a approved landfill
 - ✓ Wood chipping and land distribution
 - ✓ Transported to a recycling center
 - ✓ Burial at an approved location
 - ✓ Recycled or Reused at the farm



Practice inspection certify:

- ☐ Removal of debris by demolition, dozing, excavation or other means required.
- ☐ Dispose of all debris so that it does not impede subsequent work or cause onsite or offsite damage.
 - ☐ Removal to an approved landfill,
 - ☐ Wood chipping and land distribution,
 - ☐ Transported to recycling center,
 - ☐ Burial at an approved location,
 - ☐ Recycling or Reusing.

*Burning of debris is NOT permitted for used.

**Removal and disposition of debris in order to apply conservation practices or facilitate the planned land use.

***Debris removal will address the resource concerns of the prevention or hindrance to the installation of conservation practices or present a hazard to their use and enjoyment.



CERTIFICATION:

To be signed by NRCS Planner

NRCS Inspector will fill his/
her information and sign
after inspection is completed

Planned by: This practice was planned according to NRCS standards and specifications. Planner Designation: _____ Signature by Planner with appropriate JAA _____ Date _____	Site Inspected by: _____ This practice was applied according to NRCS standards and specifications. Amount: _____ Date: _____ Inspector Signature _____ Date _____
Reporting Checklist (NRCS Only) ☐ CPA-06 Notes ☐ File copy of completed IR sheet ☐ Report in Toolkit ☐ Other reporting tools (optional)	Certified by: _____ This practice was applied according to NRCS standards and specifications. Amount: _____ Date: _____ Signature by individual with appropriate JAA _____ Date _____

NRCS will complete Practice
Certification Process
producing the CPA 1245 for
customer signature

Employee must possess
Job Approval Authority to
sign Certification



REMEMBER TO PRODUCE THE FOLLOWING:

1. Practice Worksheet CB_IR_500_Obstruction Removal_2018 v5
Completed for each contract item certified
*i.e. One (1) producer/farmer with three (3) fields to be cleared,
must produce three practice certification, one for each field
(contract item)*
2. GPS Geo-reference of the practice implemented
3. Pictures of the area and debris piles
4. Any document evidence of disposal

Can be receipts from recycling sites, landfill documents, receipts of transport, etc.

If the client disposed material in a selected site on the farm, please take a picture of the pile, and describe the process on the worksheet site conditions and descriptions.





EXAMPLE

REAL CASES

(After H. Maria)



Caso 1

- Estructura en acero y hormigón 380' x 40' crianza de pollos parrilleros.
- Se realizó una vista inicial en la cual se analizaron los daños que el huracán causó en la estructura.
- Se determinó que se realizaría una remoción total de la estructura para poder facilitar el restablecimiento de otra estructura para el uso avícola.
- Se le explicó al agricultor que los materiales debían ser dispuestos de manera correcta, es decir en un centro de reciclaje o acopio.
- Materiales que se pueden reusar deben estar almacenados de forma organizada fuera del predio de la estructura original.
- Para comprobar medidas y status de la estructura antes y después del Huracán María se utilizaron fotos aéreas antes y después del evento.



Case 1

(Steel & Concrete Building – Broilers Pen Hen)

Estructura en acero y hormigón para crianza de pollos parrilleros (380' x 40')



Antes de Huracán María



Después de Huracán María



Case 1 – Before Demolition



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Case 1 – After Demolition and Clearing



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Case 2 - High Tunnels

- **Estructura liviana en acero techada en plástico para siembra en bancos.**
- **En este tipo de escenario también cualifica estructuras de hidropónicos y de ornamentales.**
- **Se le explicó al agricultor que los materiales debían ser dispuestos de manera correcta, es decir en un centro de reciclaje o acopio.**
- **Materiales que se pueden reusar deben estar almacenados de forma organizada fuera del predio de la estructura original.**



Case 2

Estructura liviana en acero techada en plástico para siembra en bancos.



Before H. María



After H. María

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Case 2 – Before Demolition

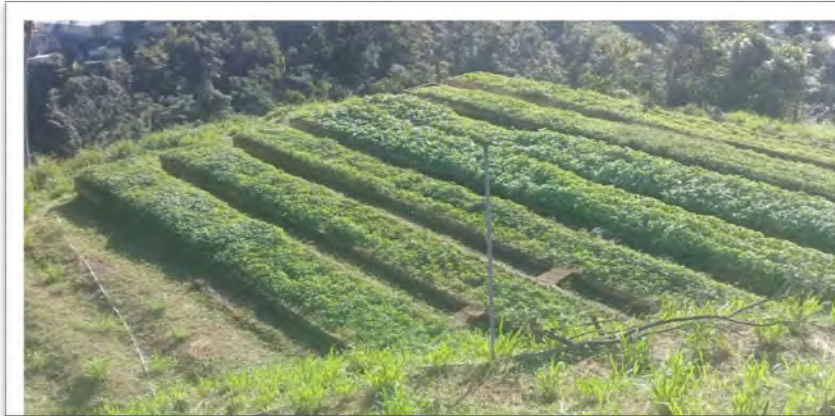


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Case 2 – After Demolition



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Resources
Conservation
Service

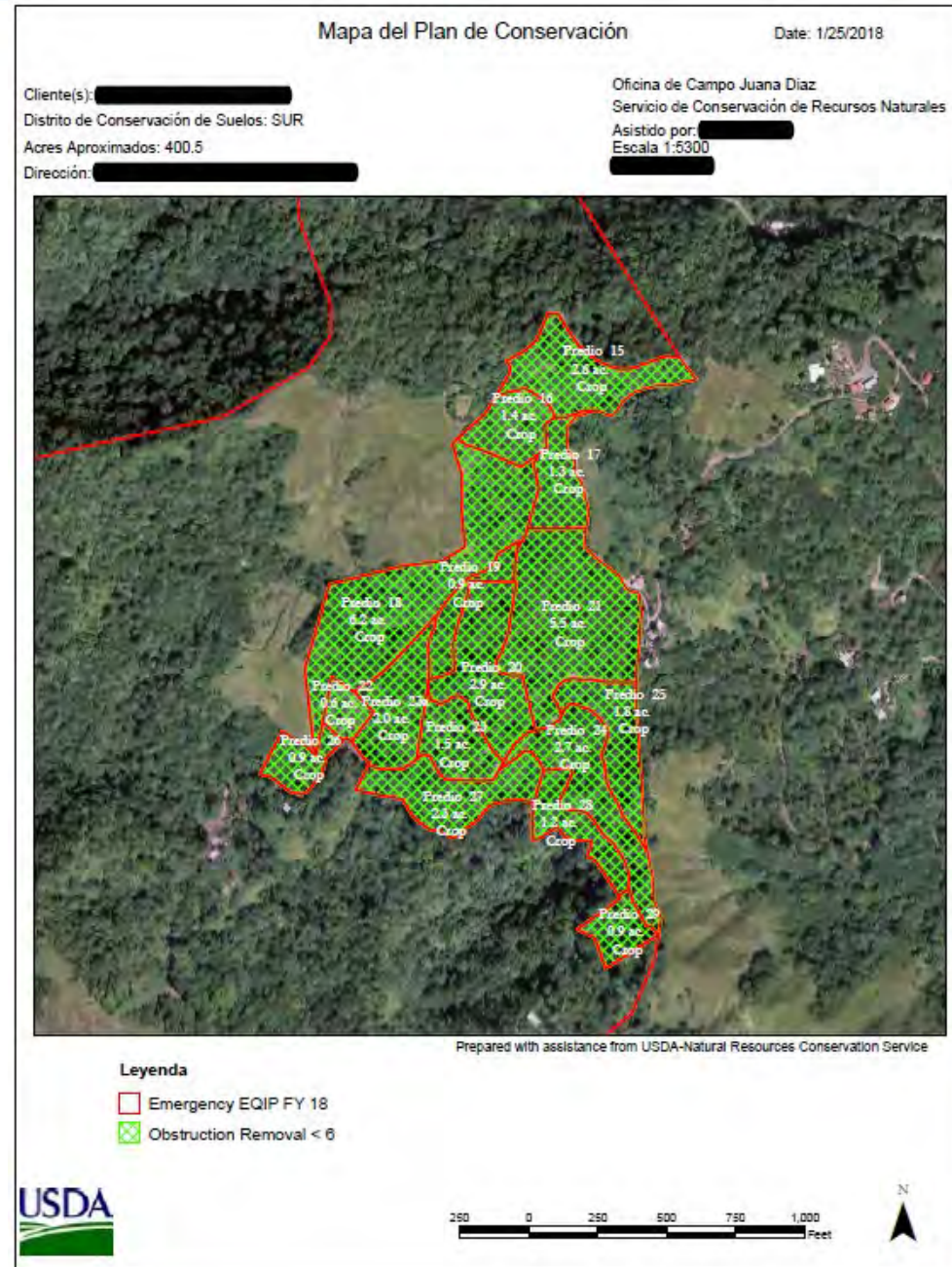
nrcs.usda.gov/



Case 3

Finca sembrada de CAFÉ
(Arboles < 6" Diámetro)

Coffee Farm
(Trees < 6"
Diameter)



Case 3

Finca sembrada de Café (Arboles < 6" Diámetro)



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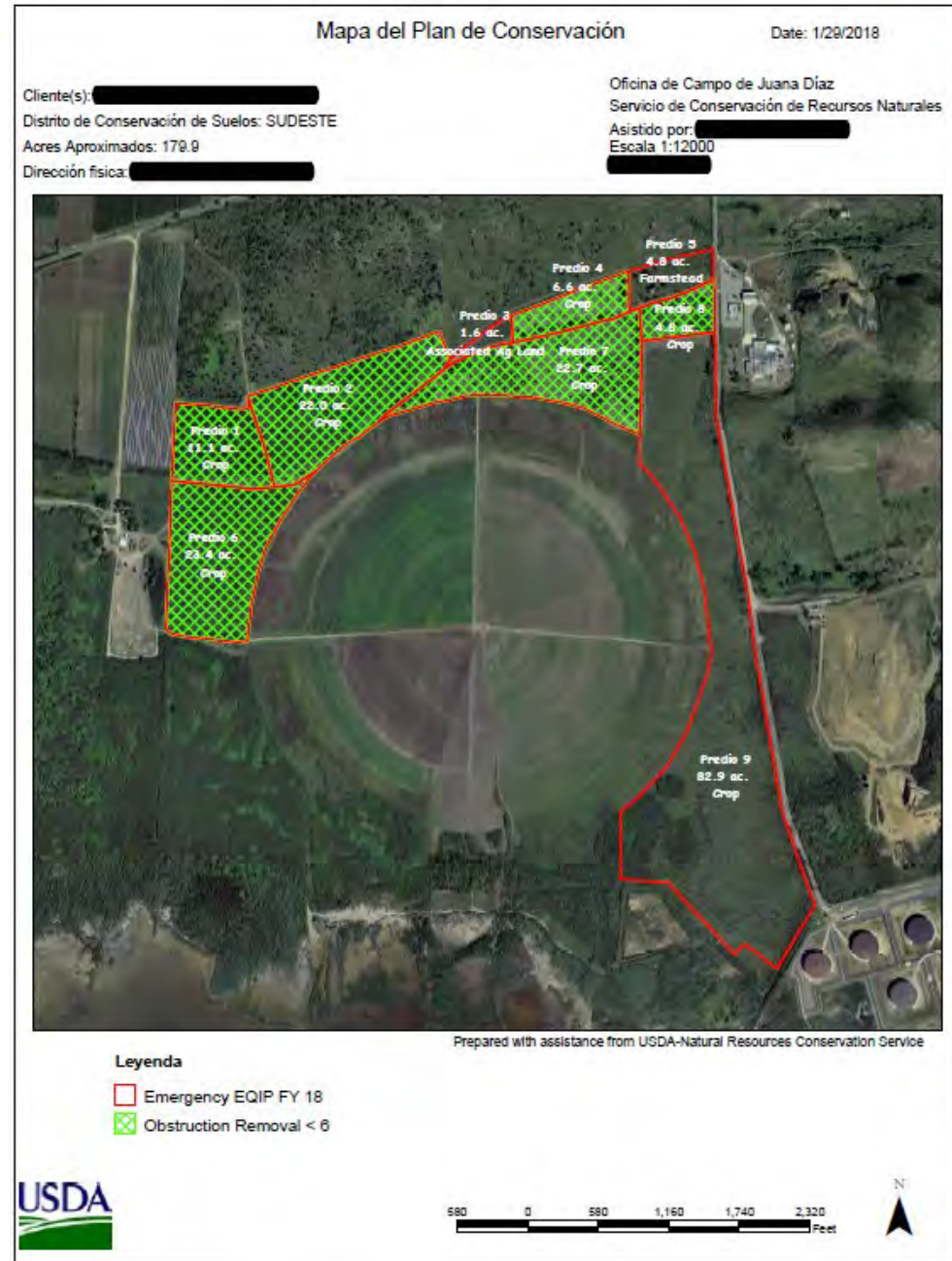


Case 4

Finca sembrada de
Frutales Adultos
(Quenepa)

(Arboles > 6" Diámetro)

Farm Planted with
Orchards (Adult Genip
Trees)



Case 4

Finca sembrada de frutales adultos (Quenepa)



Manifiesto de disposición en vertedero (Landfill Manifest)

JUANA DIAZ ECO PARK, LLC PO BOX 582 VEGA BAJA PR, 00694	Ticket #: 45434 Date: 05/24/2018 2:48 PM Phone: (787) 965-7991 Fax: (787) 858-7123
--	---

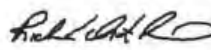
Customer: [REDACTED] 54A-012

[REDACTED]

YAUCO PUERTO RICO, 00698

H-57819 -
SUP - Supervisor

Remarks: Thanks Richard Ortiz Pagado CASH \$115.50

Signature: 

Material	Quantity	Price	Material \$	Delivery \$	Misc \$	Tax \$	Line Total \$
VEGETATIVO	14.000 YD						





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PICTURES



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Questions ?



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Igualdad de Oportunidades

El Departamento de Agricultura de los Estados Unidos, USDA por sus siglas en Inglés, prohíbe el discrimen en todos sus programas y actividades por razones de raza, color, origen nacional, edad, incapacidad, y donde aplique, por razones de sexo, estado civil, estado familiar, estado parental, religión, orientación sexual, información genética, creencias políticas, represalias, o debido a que parte o la totalidad del ingreso individual se derive de cualquier programa público de asistencia. (No todas las razones prohibidas aplican a todos los programas). Personas con impedimentos las cuales requieran métodos alternos para la comunicación de programas (Braille, impresos con letras de mayor tamaño, audio cintas, etc.) deberán contactar el Centro Target del USDA al (202) 720-2600 (voz y TDD)

Para radicar una querrela por discrimen escriba al USDA, Director Oficina de Derechos Civiles, 1400 Independence Avenue, S.W. Washington, D.C. 20250-9410 o llame libre de cargos al (800) 795-3272 (voz) o al (202) 720-6382 (TDD)

USDA es un proveedor, empleador y prestamista que ofrece igualdad de oportunidades





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**THE
END !**



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