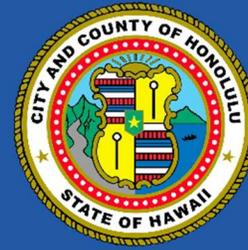


Small Project Erosion and Sediment Control Example Exercises





Introduction

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AECOM

Presentation Outline

- ❑ Review of small project definitions and ESCP components
- ❑ 3 example exercises [refer to handouts]

Small Project Categories

Examples

1A	<p>Must meet ALL of the following criteria:</p> <ol style="list-style-type: none"> 1. Residential single-family or two-family detached Development; 2. The total Disturbed Area for the Project is less than 1,000 square feet; and 3. Land Disturbing activities will not occur on slopes equal to or greater than 15 percent at the Site. 	<ul style="list-style-type: none"> • New addition • New fence wall
1B	<p>Building permits less than one acre and does not meet the Category 1A Project criteria OR Work which requires both a grading permit and a building permit where the zoning lot or portion thereof is less than 15,000 square feet for single-family or two-family dwelling uses and less than 7,500 square feet for other uses.</p>	<ul style="list-style-type: none"> • Construction on a commercial property. • Demo of a home • New home • Projects on a slope • Retaining wall
2	<p>Same as 1B, but requires a grading permit only (no building permit)</p>	<p>Site work which does not require a building permit (not a retaining wall)</p>

ESCP Components for Small Projects

- Template
 - Project information
 - BMP descriptions
- Site Diagram(s)
- Project Schedule
- Owner/ Authorized Agent Signature
- Certified ESCP Coordinator Information and Signature

Category 1C, 3, 4, and 5 project ESCPs cannot be submitted using a template



City and County of Honolulu

Appendix A

Erosion and Sediment Control Plan
Category 1A Template

Construction Site Project Name: _____

Physical Site Address: _____

Building Permit Number: _____

Instructions:

This completed template is to be used as the Erosion and Sediment Control Plan (ESCP) for projects which fall under the City and County of Honolulu, Department of Planning and Permitting (DPP) Category 1A: Single-family or Two-family detached residential building projects that disturb less than 1,000 square feet of land and where there will not be land disturbing activities on slopes greater than 15%.

This ESCP must be submitted as part of the Building Permit application and made available on the job site at all times. This ESCP may be prepared by the owner of the project or an authorized representative designated by the owner, and must be signed by the owner below. A certified ESCP coordinator for the project must be designated at least 2 weeks prior to starting work by sending written notice to the DPP.

Read through the instructions for each of the three (3) sections on the next pages, **I. Erosion Prevention, II. Sediment Control, and III. Good Housekeeping**. Any best management practices (BMP) boxes that are checked are mandatory during construction. For more information on each type of BMP, this template lists applicable fact sheet numbers from the City's Construction BMP Manual that may help you decide on which BMP type to use and how to use them. The manual is available on the DPP website (www.honolulu.dpp.org). For any conflicting information between the Rules Relating to Water Quality and the Construction BMP Manual, the requirements of the Rules shall be followed. If other BMPs not listed are used to achieve the same or similar results, attach additional documentation.

I. EROSION PREVENTION: practices that prevent erosion from occurring.		
BMP	Check Appropriate Box	Reference Factsheets
1. Project Scheduling Notify the DPP two (2) weeks prior to starting work. Attach a Project Schedule to this ESCP including dates when BMPs will be installed, when land disturbing activities will begin and end, and dates when BMPs will be removed.	<input type="checkbox"/> Applicable <input type="checkbox"/> Not Applicable	EC-1
2. Permanent Stabilization Prior to final approval and closing of the permits for work on the project site, permanent stabilization must be in place.	<input type="checkbox"/> Applicable <input type="checkbox"/> Not Applicable	N/A

II. SEDIMENT CONTROL: practices to prevent soil and sediment from leaving the project site and entering storm drains during rain events.		
BMP	Check Appropriate Box	Reference Factsheets
1. Perimeter Controls Sediment fences or barriers shall be used at the perimeter of all disturbed areas if there is the potential for runoff to flow off the project site, and around the base of all material stockpiles. These may include gravel bags, sand bags, fiber rolls, silt fences, or compost socks that intercept runoff.	<input type="checkbox"/> Applicable <input type="checkbox"/> Not Applicable	SE-1, SE-5, SE-6, SE-8, SE-16
2. Storm Drain Inlet Protection Inlet protection is required over storm drains within 50 feet of your project site unless those inlets drain to a sediment basin or trap.	<input type="checkbox"/> Applicable <input type="checkbox"/> Not Applicable	SE-10

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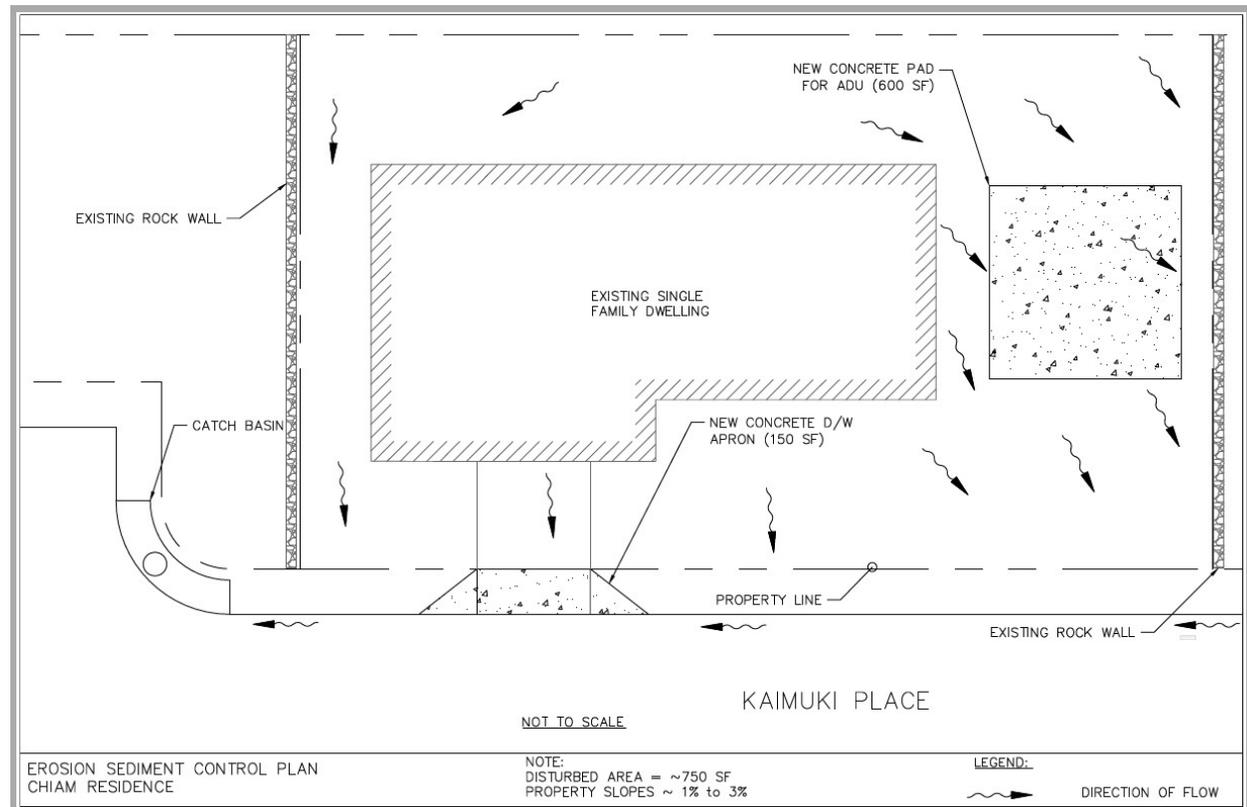
Example 1- Addition to Existing SFD



Exercise 1 (Refer to Site Diagram in Handout)

Description:

- New ADU and Driveway Apron ~750 square feet
- Slopes 1-3%
- Residential use



Poll #1: What Category Project is this?

1. Category 1A
2. Category 1B

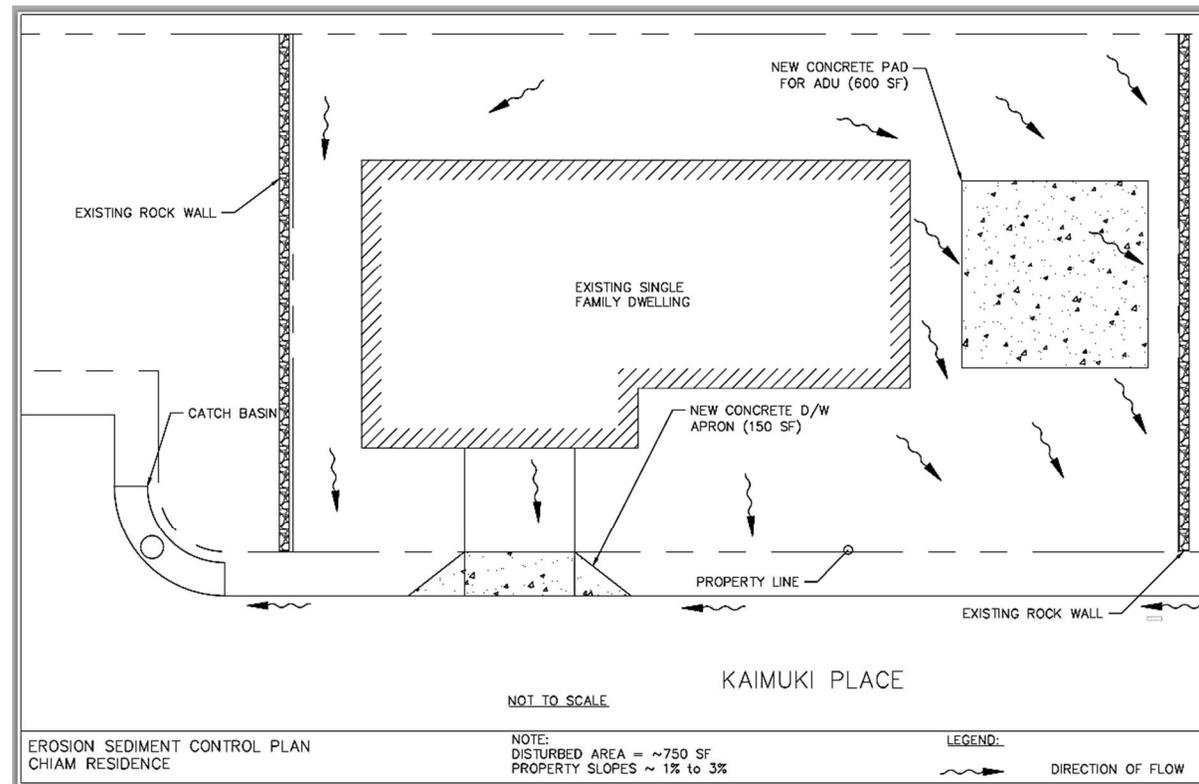
Exercise 1 (10 minutes)

1. Use the Site Diagram Provided and draw in BMPs

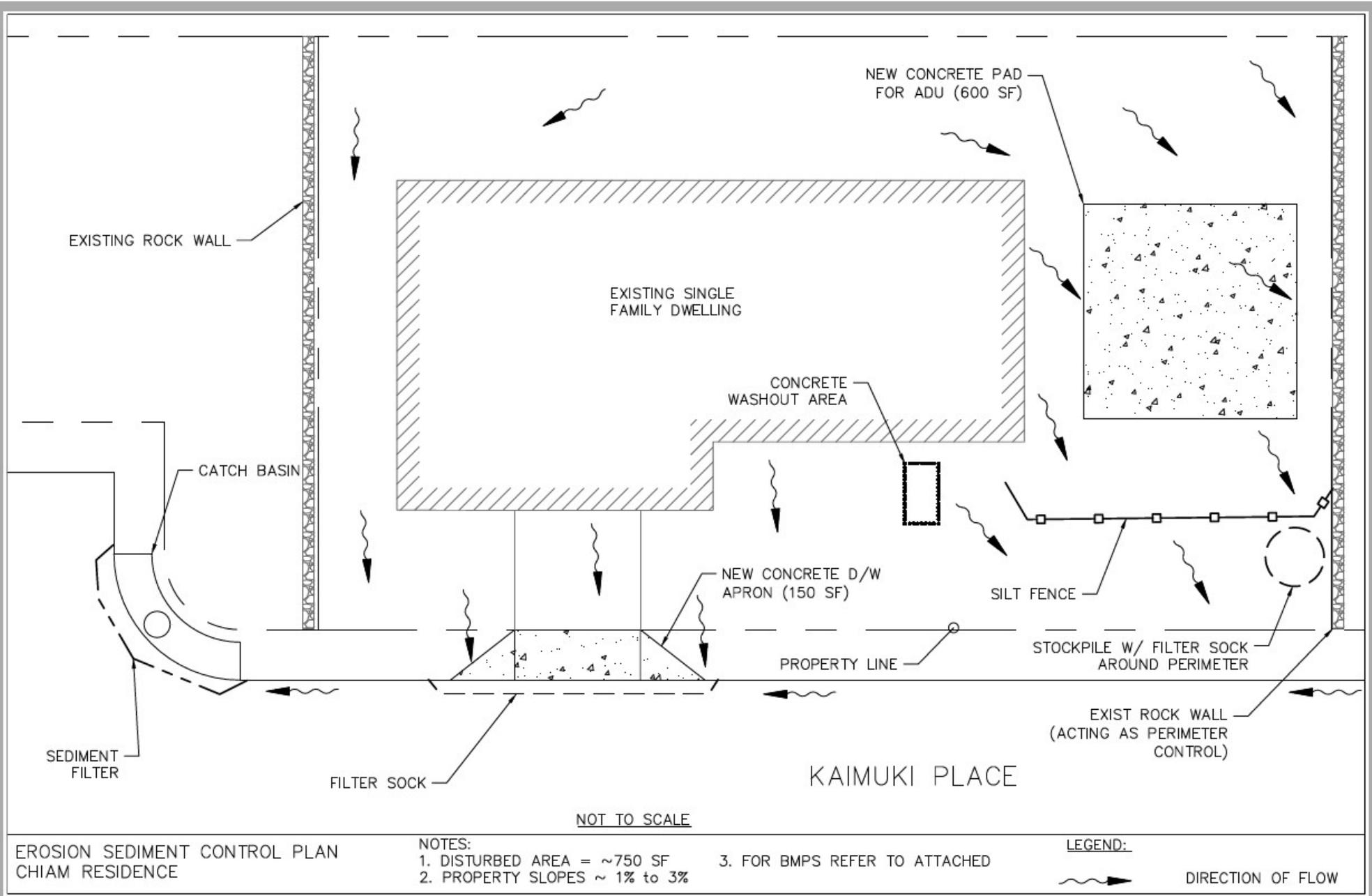
- Tip! Consider:
 - Perimeter control
 - Inlet protection
 - Good housekeeping BMPs
 - Concrete?
 - Portable Toilets?
 - Material Storage?
 - Access

2. Complete the ESCP Template- Check all BMPs that apply to this site and project

3. Develop a project schedule (sequence and timeline of activities)



Let's Compare



BMP Checklist

Applicable

Project Scheduling

Permanent Stabilization

Perimeter Control

Storm Drain Inlet Protection

BMP Site Maintenance

Dust control (sprinkling with water)

Material Delivery, Storage and Use

Stockpile Management

Spill Prevention and Control

Solid Waste Management

Concrete Waste Management

Vehicle Tracking Control

Not Applicable

Hazardous Waste Management

Contaminated Soil Management

Liquid Waste Management

Sanitary/ Septic Waste Management (No Portable Toilets)

Exercise 1- Example Schedule

- Included:
- ✓ Implementation of BMPs
- ✓ Inspections
- ✓ Phases of construction
- ✓ Removal of BMPs

SCHEDULE	
Action	Timeline or Date
Notify the Department of Planning and Permitting of Project Start Date - 768-8132	2 weeks before starting work
Install Drain Inlet Protection and Perimeter Controls	Day 1
Perform Pre-Construction Inspection	Day 1
Site Clearing	3 days
Concrete Slab	1 week
Vertical Construction- Final Stabilization	3 months
Demobilize Equipment and Materials	2 days
Remove BMPs	1 Day
Sweeping and Waste Disposal	Daily
ESCP Inspections	Monthly



Example 2- Demo + New SFD Construction



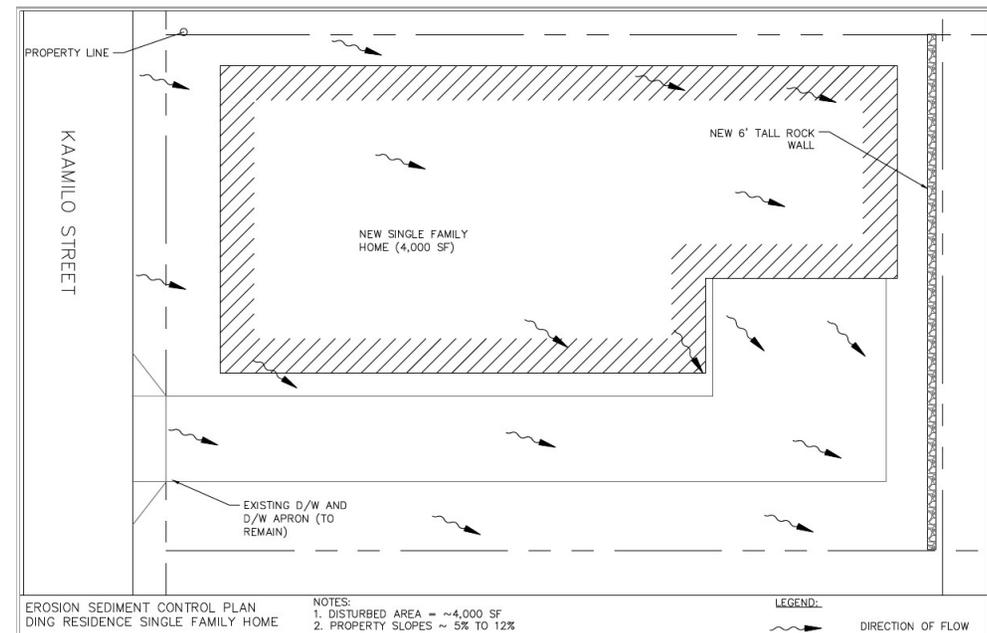
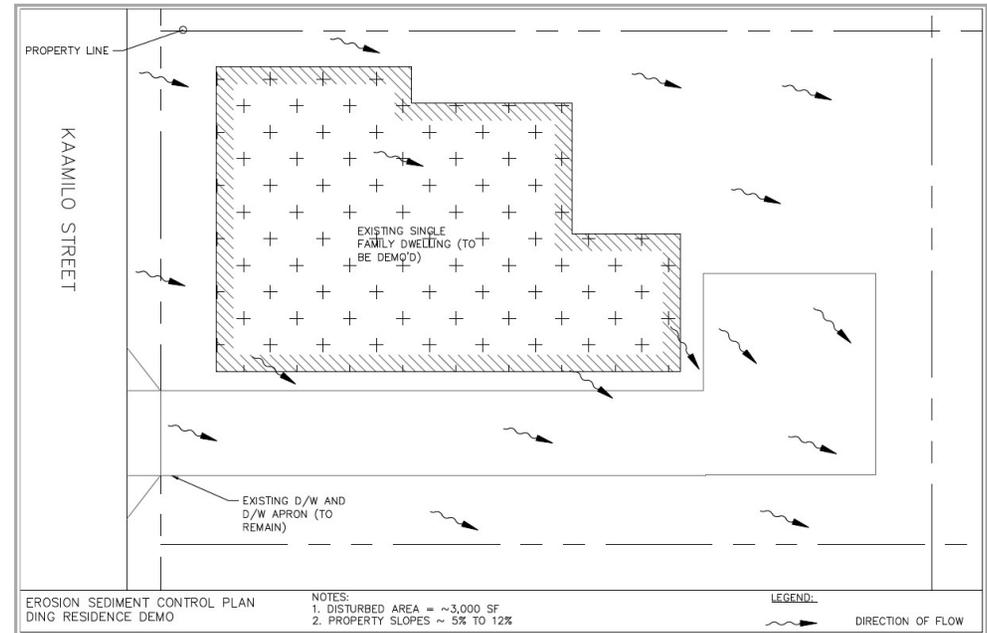
Exercise 2 (Refer to Site Diagrams in Handout)

Description:

- ❑ Two permits being applied for concurrently
 1. Demo of existing SFD
 2. New 4,000 sq-ft. SFD and 6 ft tall CRM fence
- ❑ Slopes: 5-12% away from street

Poll #2: What Category Project is this?

1. Category 1A
2. Category 1B



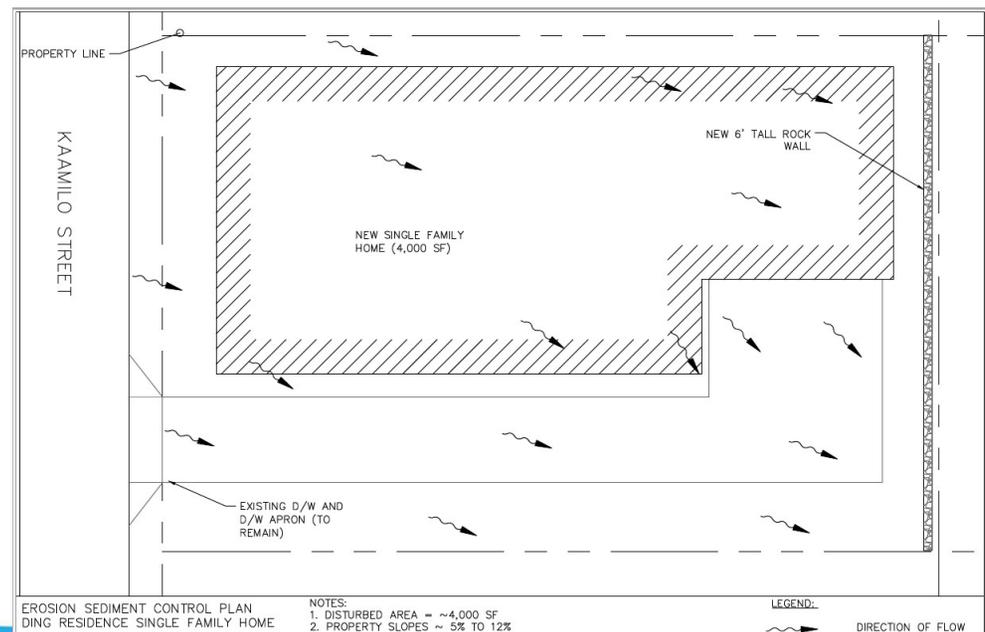
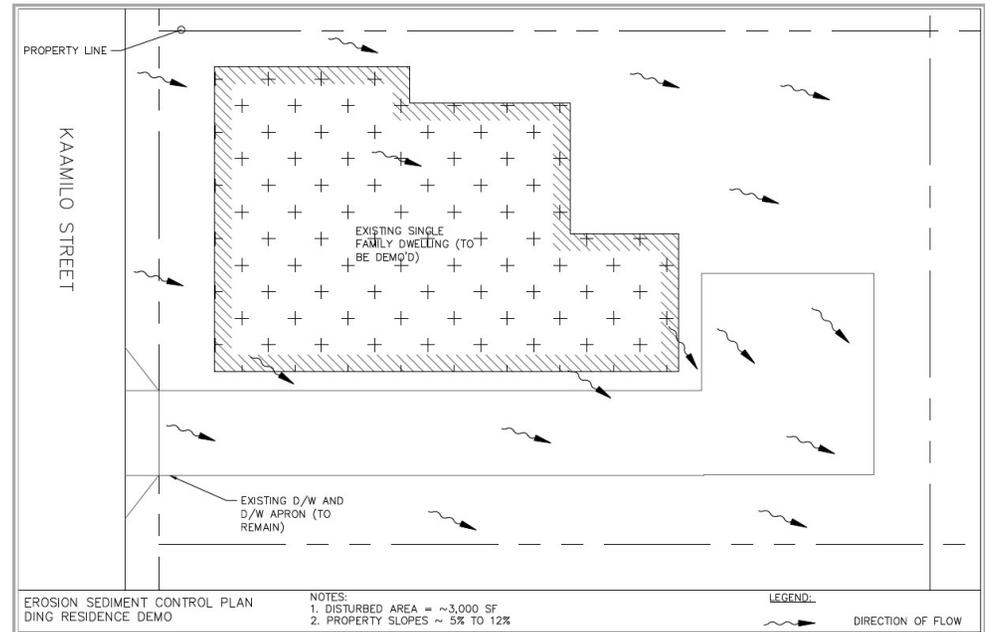
Exercise 2 (10 minutes)

1. Use the Site Diagram Provided and draw in BMPs

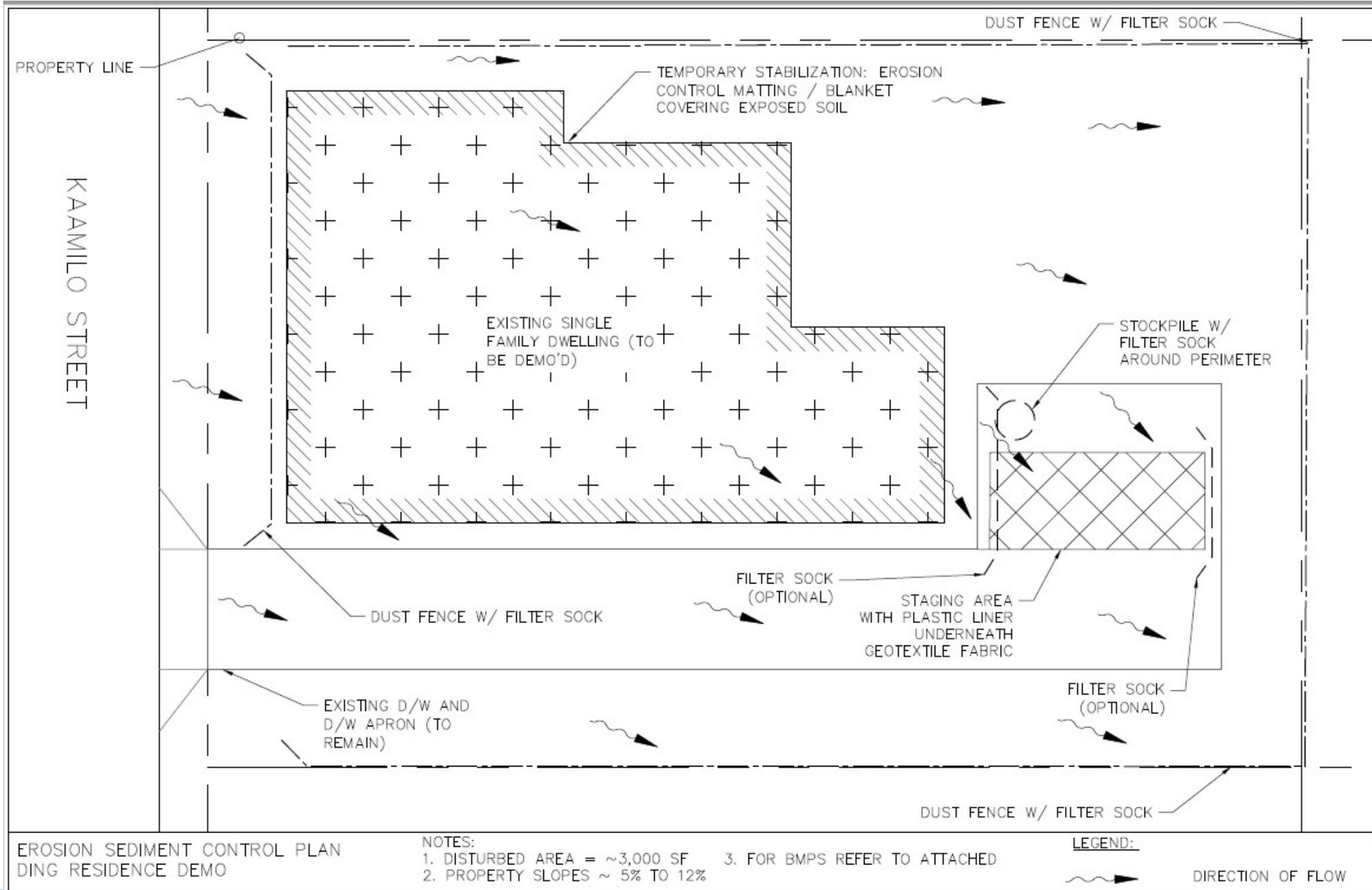
- Tip!. Consider:
 - Runoff and Run-on
 - Material staging
 - Perimeter Controls

2. Complete the ESCP Template

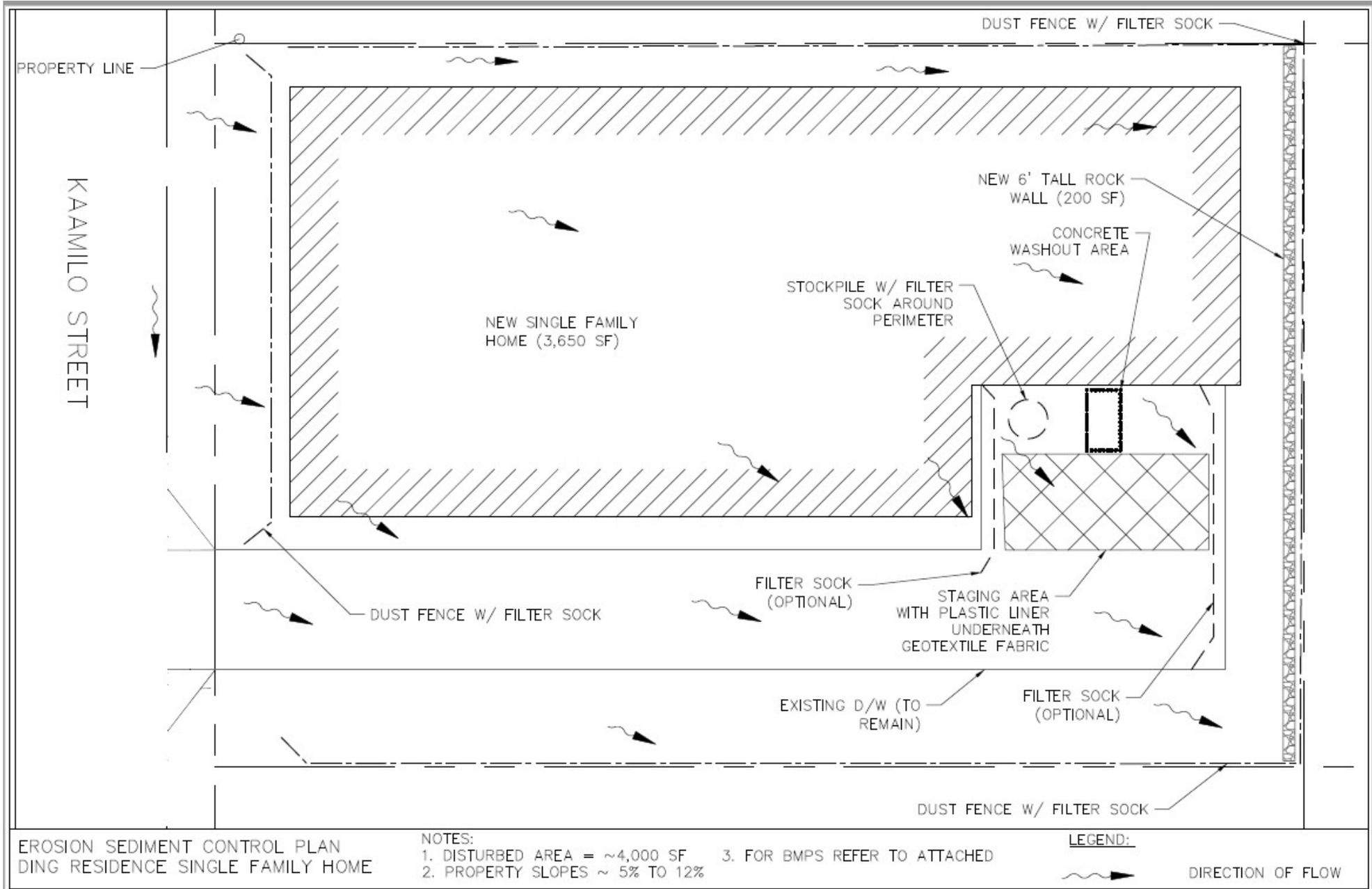
3. Develop a project schedule (sequence and timeline of activities)



Let's Compare- Demo



Let's Compare- New Construction



BMP Checklist

Applicable

Project Scheduling

Permanent Stabilization

Slope Protection

Temporary Stabilization

Perimeter Control

Storm Drain Inlet Protection

BMP Site Maintenance

Dust control (Dust Fence)

Material Delivery, Storage and Use

Stockpile Management

Spill Prevention and Control

Solid Waste Management

Concrete Waste Management

Vehicle Tracking Control

Not Applicable

Hazardous Waste Management

Contaminated Soil Management

Liquid Waste Management

Sanitary/ Septic Waste Management (No Portable Toilets)

Exercise 2- Example Schedule

- Included:
- ✓ Implementation of BMPs
- ✓ Inspections
- ✓ Phases of construction
- ✓ Removal of BMPs

SCHEDULE	
Action	Timeline or Date
Notify the Department of Planning and Permitting of Project Start Date - 768-8132	2 weeks before starting work
Install Phase 1-Demo Perimeter Controls	Day 1
Perform Pre-Construction Inspection	Day 1
Phase 1- Demo of existing structure including disposal	6 days
Install Phase 2 Perimeter Controls/ Remove Phase 1 Perimeter Controls	1 day
Phase 2- Construction: Foundation + Vertical Construction	5 months
Hydroseed grass on exposed soil for permanent stabilization as soon as no active work on exposed areas.	1 day
Remove Perimeter Control after vegetation is established	1 day
Waste Disposal and Sweeping	Daily
ESCP Inspections	Monthly



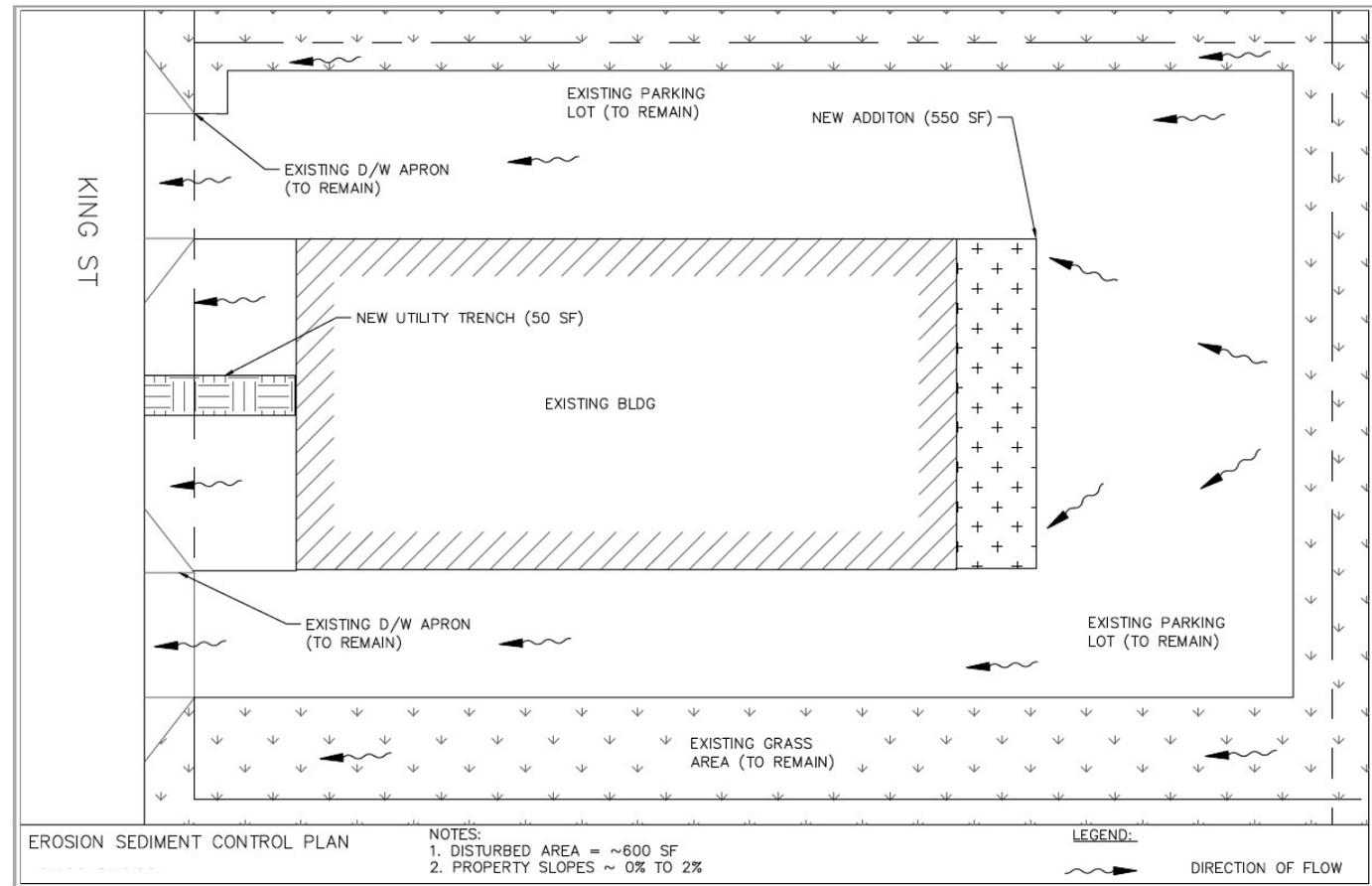
Example 3- Commercial Addition and Utility Trench



Exercise 3 (Refer to Site Diagram in Handout)

Description:

- New 550 sq-ft Addition, 50 sq-ft Utility Trench
- Slopes 0-2%
- Commercial Use



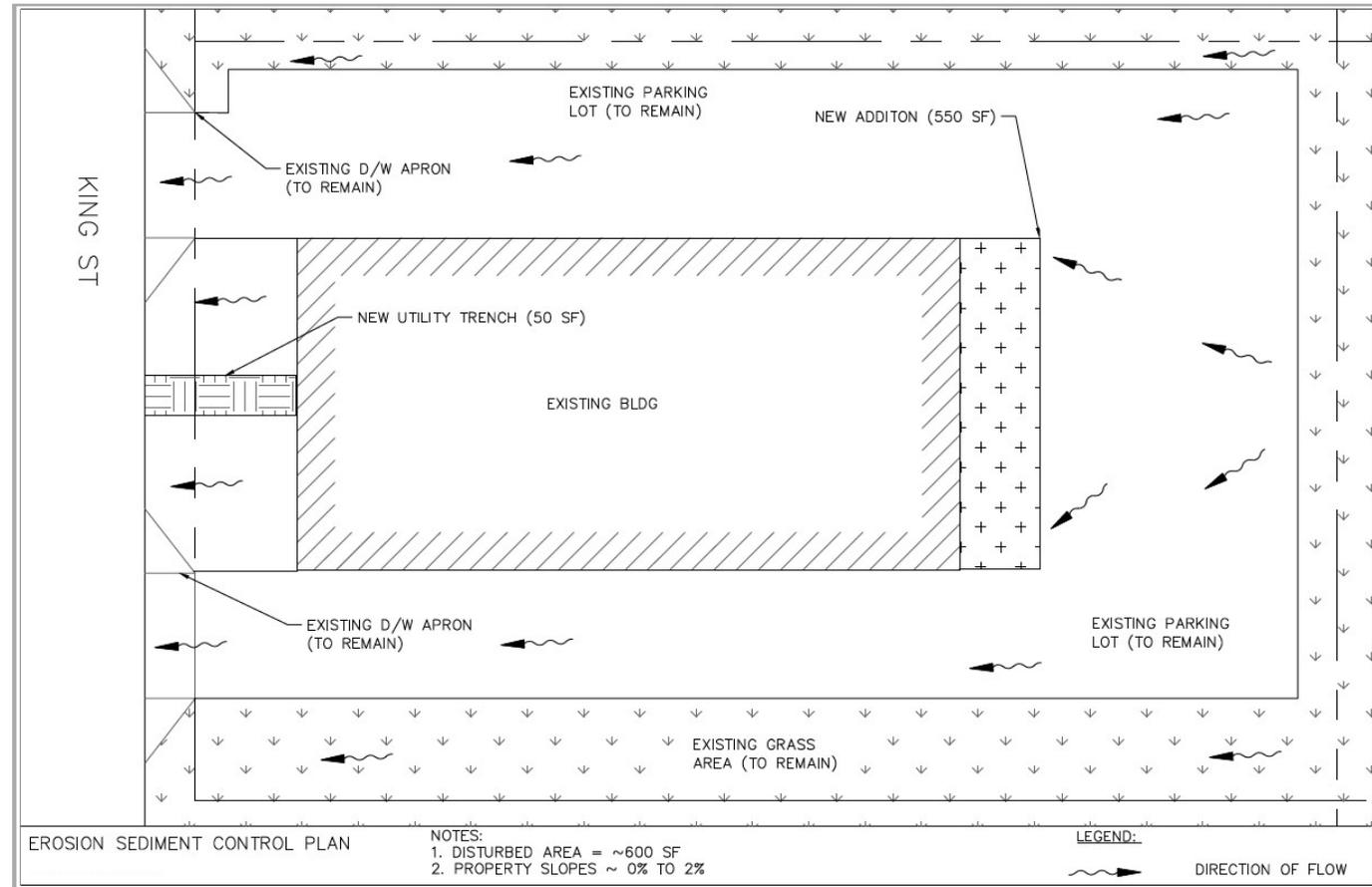
Poll #3: What Category Project is this?

1. Category 1A
2. Category 1B

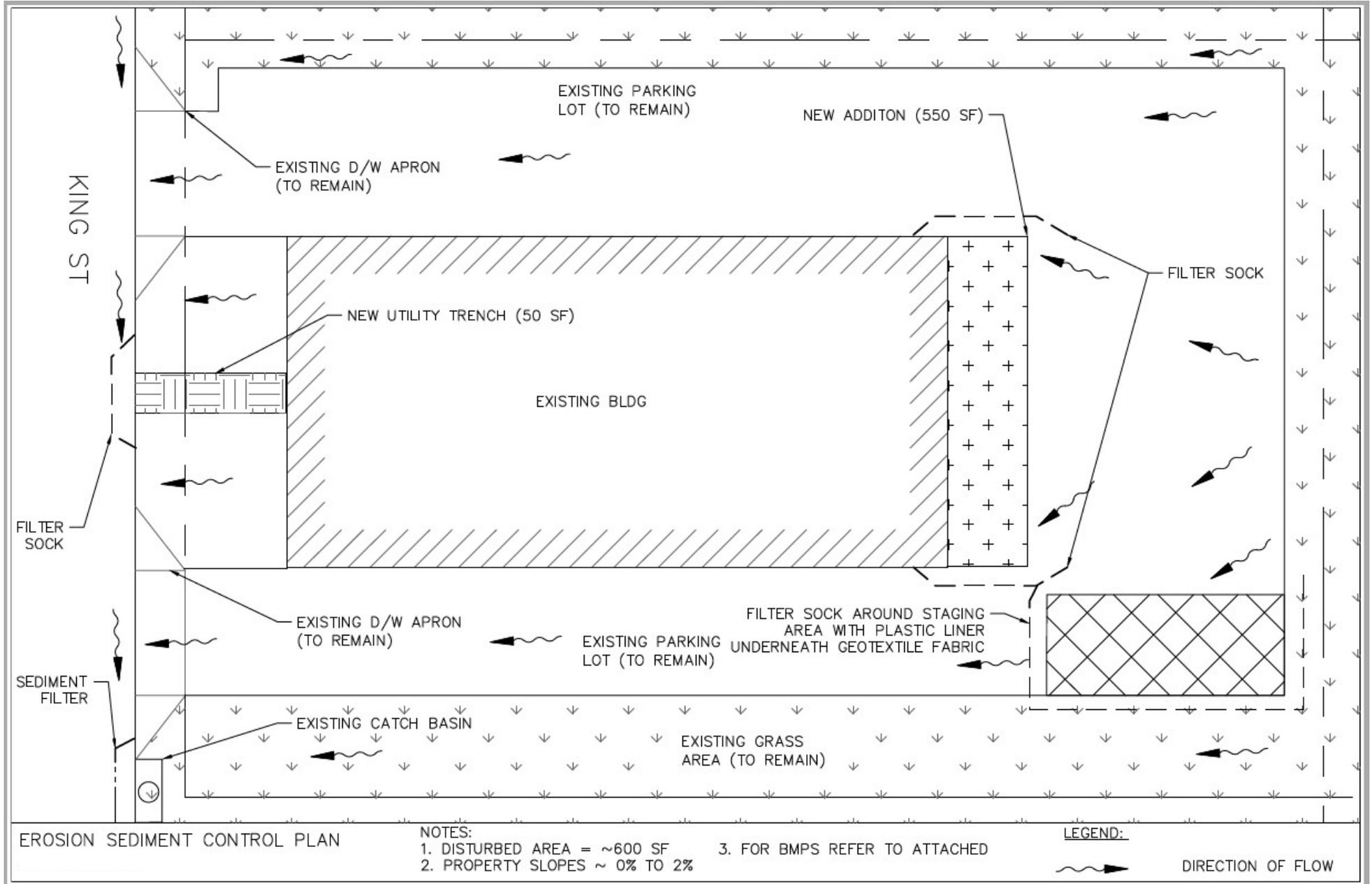
Exercise 3 (10 minutes)

1. Use the Site Diagram Provided and draw in BMPs

2. Develop a project schedule (sequence and timeline of activities)



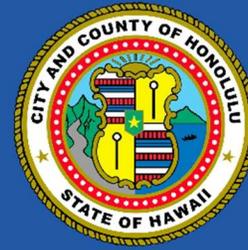
Let's Compare



Exercise 3- Example Schedule

- Included:
- ✓ Implementation of BMPs
- ✓ Inspections
- ✓ Phases of construction
- ✓ Removal of BMPs

SCHEDULE	
Action	Timeline or Date
Notify the Department of Planning and Permitting of Project Start Date - 768-8132	2 weeks before starting work
Install Perimeter Controls, inlet protection, and staging areas	Day 1
Perform Pre-Construction Inspection	Day 1
Trench for utility line, move and replace perimeter control as needed.	2 days
Construction on addition, all exposed areas to be covered by new structure	2 months
Remove perimeter control after areas are stabilized, continue good housekeeping throughout.	1 day
Demobilize equipment and material at end of construction	2 days
Remove inlet protection	1 day
Waste Disposal and Sweeping	Daily
ESCP Inspections	Monthly



Thank you!

Questions?