STX EE WATERSHEDS **RETROFITS**

Site Name/ID: GP-R-1 / Great Pond Parking **Watershed:** Great Pond

Date: 1/26/2011 **Assessed by:** RAC & ACS

EXISTING SITE/STORMWATER MANAGEMENT

Site Contact Info: owner – EEMP? confirm w/ Paige Rothenberger

Land Use: ☐ Public ☐ Private ☐ Unknown: *

☐ Single Family Residential ☐ Multi-Fam. Residential ☐ School ☐ Golf Course ☐ Park ☐ Agricultural ☐ Road
☐ Commercial/Industrial ☐ Resort ☐ Marina ☒ Other: parking / access to beach & pond / dumping area

Is the site a hotspot? ☒ Yes ☐ No ☐ Unknown: Probably
Sources/pollutants observed? ☐ No ☒ Sediment ☐ Nutrients/organics ☐ Oil/grease ☒ Trash/Floatables

Existing Stormwater BMP on site? ☐ Yes ☒ No ☐ Unknown:

Soils: ☒ Unknown ☐ poor infiltration ☐ good infiltration

Describe Existing Stormwater Conditions, Including Existing Site Drainage and Conveyance:
Stormwater sheet flow down existing dirt road / paths to pond & ocean. Debris / staining from dump / trash piles & evidence of burn piles along road east of pond. SW likely flows through refuse to beach.
Significant gullying & erosion along road

PROPOSED RETROFIT CONCEPT *(CONT. ON BACK)*

Proposed Retrofit Practice(s): ☐ existing BMP upgrade ☒ new BMP

☐ island bio/rain garden ☐ swale ☐ planter ☐ tree pits ☐ infiltration ☐ permeable paver ☐ sand filter ☐ pond
☐ constructed wetland ☐ proprietary practice ☐ soil amendments ☐ reforestation ☐ impervious cover removal
☐ rainwater harvesting ☐ disconnection ☒ Other (describe): install vehicle barrier

Area Draining to Retrofit
☐ Hotspot ☐ Individual rooftop
☐ Parking Lot ☐ other small impervious area
☐ Street ☒ Pervious area
☒ Other (describe): dirt road / neighborhood to NW

Drainage Area to retrofit ≈ _____ acres/sq ft
Imperviousness ≈ _____ % *
Impervious Area ≈ _____ acres/sq ft

Benefits of Retrofit (primary & secondary): ☐ Storage ☒ Water Quality ☐ Recharge ☐ Gut Protection ☐ Demonstration / Education ☒ Repair ☐ Other: _____

Possible Conflicts due to: ☐ Soils ☐ Access ☐ Adjacent Land Use ☐ Existing Utilities ☐ Contamination ☐ High water table ☐ Limited access to water ☐ Other:

Describe conflicts:

NEXT STEPS

Candidate for pilot project ☐ yep, love it ☐ OK ☒ undecided ☐ no, but keep listed ☐ no way

Follow-up needed to Complete Field Concept
☒ Confirm property ownership
☐ Confirm drainage area/impervious cover
☐ Confirm volume computations
☐ Complete concept sketch
☐ Obtain existing as-builts/site plans
☐ Obtain detailed topography
☐ Confirm storm drain invert elevations
☐ Other:
☐ Obtain utility mapping
☐ Confirm soil types

☒ SITE AERIAL INCLUDED

PROPOSED RETROFIT CONCEPT (CONT.)

Narrative Description (Including key elements, aprox. surface area/ depth of treatment, conveyance structures):

Install guardrail or other suitable barrier to restrict vehicle access (and minimize potential for dumping) on road. Restore road w/ appropriate sediment and/or gravel
- Clean/remove trash/refuse/debris to suitable off site location
- 'No dumping' signage?

Sketch and/or Sizing Calcs: See aerial

Existing Head Available/Where Measured:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: ☐ Low ☐ Medium ☐ High

Site ID GP-R-1

GP-P-1

STX EE WATERSHEDS **RETROFITS**

Site Name/ID: GP-R-2 **Watershed:** Great Pond

Date: 1/26/11 **Assessed by:** MW, KR, & ACK

EXISTING SITE/STORMWATER MANAGEMENT

Site Contact Info:
- EEMP
- Paige

Land Use: ☐ Public ☐ Private ☐ Unknown:

☐ Single Family Residential ☐ Multi-Fam. Residential ☐ School ☐ Golf Course ☐ Park ☐ Agricultural ☐ Road
☐ Commercial/Industrial ☐ Resort ☐ Marina ☐ Other: _____

Is the site a hotspot? ☐ Yes ☐ No ☐ Unknown:
Sources/pollutants observed? ☐ No ☐ Sediment ☐ Nutrients/organics ☐ Oil/grease ☐ Trash/Floatables

Existing Stormwater BMP on site? ☐ Yes ☐ No ☐ Unknown:

Soils: ☐ Unknown ☐ poor infiltration ☐ good infiltration

Describe Existing Stormwater Conditions, Including Existing Site Drainage and Conveyance:

No problems here — maybe use empty open space to grow plants for rain gardens & erosion control projects??

PROPOSED RETROFIT CONCEPT *(CONT. ON BACK)* NONE

Proposed Retrofit Practice(s): ☐ existing BMP upgrade ☐ new BMP

☐ island bio/rain garden ☐ swale ☐ planter ☐ tree pits ☐ infiltration ☐ permeable paver ☐ sand filter ☐ pond
☐ constructed wetland ☐ proprietary practice ☐ soil amendments ☐ reforestation ☐ impervious cover removal
☐ rainwater harvesting ☐ disconnection ☐ Other (describe):

Area Draining to Retrofit
☐ Hotspot ☐ Individual rooftop
☐ Parking Lot ☐ other small impervious area
☐ Street ☐ Pervious area
☐ Other (describe):

Drainage Area to retrofit ≈ _____ acres/sq ft

Imperviousness ≈ _____%

Impervious Area ≈ _____ acres/sq ft

Benefits of Retrofit (primary & secondary): ☐ Storage ☐ Water Quality ☐ Recharge ☐ Gut Protection ☐ Demonstration / Education ☐ Repair ☐ Other:_____

Possible Conflicts due to: ☐ Soils ☐ Access
☐ Adjacent Land Use ☐ Existing Utilities
☐ Contamination ☐ High water table
☐ Limited access to water ☐ Other:

Describe conflicts:

NEXT STEPS

Candidate for pilot project ☐ yep, love it ☐ OK ☐ undecided ☐ no, but keep listed ☐ no way

Follow-up needed to Complete Field Concept
☐ Confirm property ownership
☐ Confirm drainage area/impervious cover
☐ Confirm volume computations
☐ Complete concept sketch
☐ Obtain existing as-builts/site plans
☐ Obtain detailed topography
☐ Confirm storm drain invert elevations
☐ Other:
☐ Obtain utility mapping
☐ Confirm soil types

☒ SITE AERIAL INCLUDED

PROPOSED RETROFIT CONCEPT (CONT.)

Narrative Description (Including key elements, aprox. surface area/ depth of treatment, conveyance structures):

Sketch and/or Sizing Calcs:

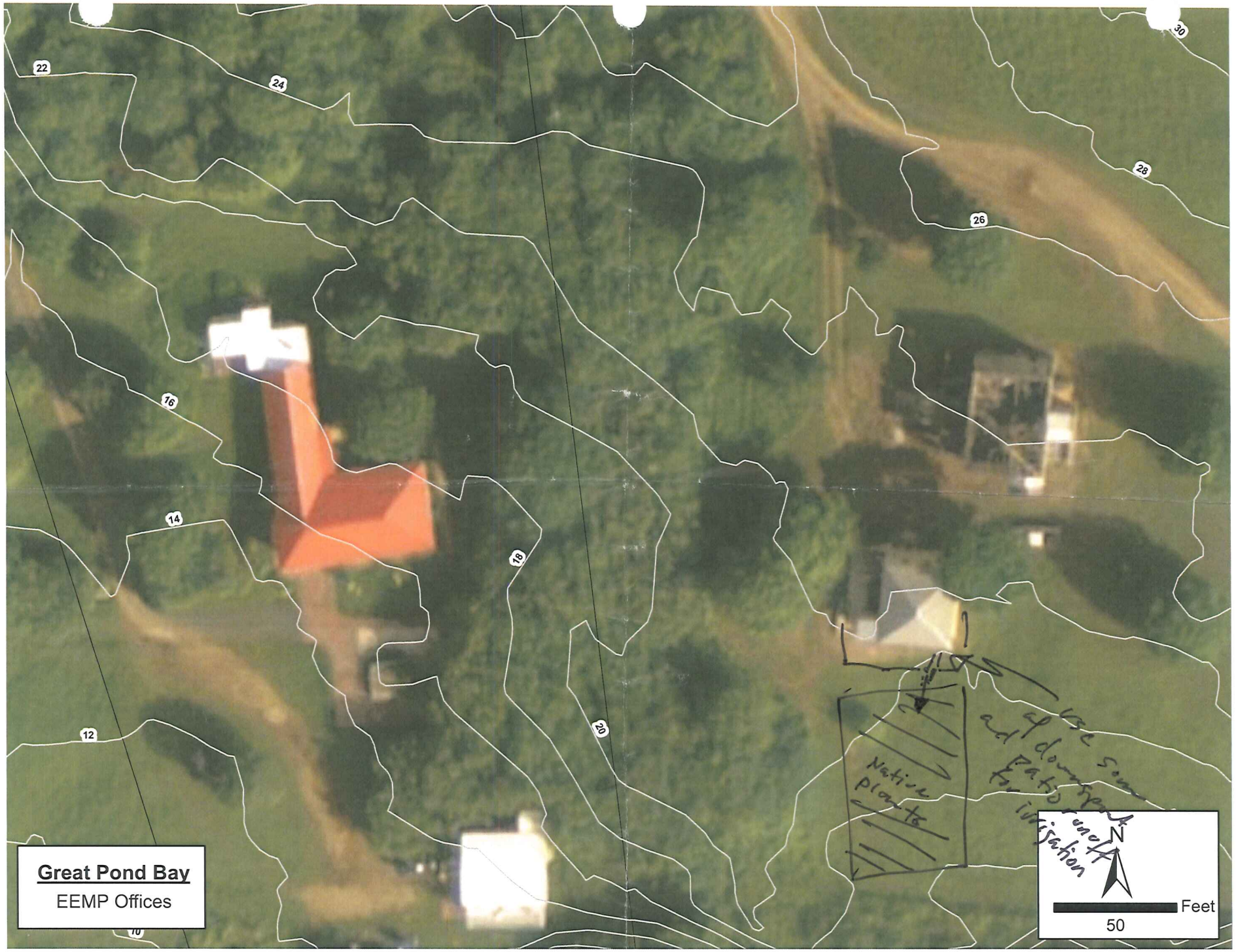
SEE AERIAL

Existing Head Available/Where Measured:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: ☐ Low ☐ Medium ☐ High

Site ID_____


22
24
26
28
30
16
14
18
20
12
10
Great Pond Bay
EEMP Offices
Native plants
N
Feet
50

STX EE WATERSHEDS **RETROFITS**

Site Name/ID: GP-R-3 **Watershed:** Great Pond

Date: 1/26/11 **Assessed by:** MW, KR, ACK

EXISTING SITE/STORMWATER MANAGEMENT

Site Contact Info:
Paige & REMP

Land Use: ☐ Public ☒ Private ☐ Unknown: OWNERSHIP IN QUESTION

☐ Single Family Residential ☐ Multi-Fam. Residential ☐ School ☐ Golf Course ☐ Park ☐ Agricultural ☐ Road
☐ Commercial/Industrial ☐ Resort ☐ Marina ☐ Other: _____

Is the site a hotspot? ☐ Yes ☐ No ☐ Unknown:
Sources/pollutants observed? ☐ No ☐ Sediment ☐ Nutrients/organics ☐ Oil/grease ☐ Trash/Floatables

Existing Stormwater BMP on site? ☐ Yes ☐ No ☐ Unknown:

Soils: ☐ Unknown ☐ poor infiltration ☐ good infiltration

Describe Existing Stormwater Conditions, Including Existing Site Drainage and Conveyance:
RUNOFF FROM UNPAVED AREA DRAINS DOWN THRU TRAIL/BEACH ACCESS.
2:1 – 3:1 slopes down trail; rills & gullies are evident.

PROPOSED RETROFIT CONCEPT *(CONT. ON BACK)* N/A

Proposed Retrofit Practice(s): ☐ existing BMP upgrade ☐ new BMP

☐ island bio/rain garden ☐ swale ☐ planter ☐ tree pits ☐ infiltration ☐ permeable paver ☐ sand filter ☐ pond
☐ constructed wetland ☐ proprietary practice ☐ soil amendments ☐ reforestation ☐ impervious cover removal
☐ rainwater harvesting ☐ disconnection ☐ Other (describe):

Area Draining to Retrofit
☐ Hotspot ☐ Individual rooftop
☐ Parking Lot ☐ other small impervious area
☐ Street ☐ Pervious area
☐ Other (describe):

Drainage Area to retrofit ≈ _____ acres/sq ft

Imperviousness ≈ _____%

Impervious Area ≈ _____ acres/sq ft

Benefits of Retrofit (primary & secondary): ☐ Storage ☐ Water Quality ☐ Recharge ☐ Gut Protection ☐ Demonstration / Education ☐ Repair ☐ Other:_____

Possible Conflicts due to: ☐ Soils ☐ Access ☐ Adjacent Land Use ☐ Existing Utilities ☐ Contamination ☐ High water table ☐ Limited access to water ☐ Other:

Describe conflicts:

NEXT STEPS

Candidate for pilot project ☐ yep, love it ☐ OK ☐ undecided ☐ no, but keep listed ☐ no way

Follow-up needed to Complete Field Concept
☐ Confirm property ownership
☐ Confirm drainage area/impervious cover
☐ Confirm volume computations
☐ Complete concept sketch
☐ Obtain existing as-builts/site plans
☐ Obtain detailed topography
☐ Confirm storm drain invert elevations
☐ Other:
☐ Obtain utility mapping
☐ Confirm soil types

☐ SITE AERIAL INCLUDED

PROPOSED RETROFIT CONCEPT (CONT.)

Narrative Description (Including key elements, aprox. surface area/ depth of treatment, conveyance structures):

Sketch and/or Sizing Calcs:

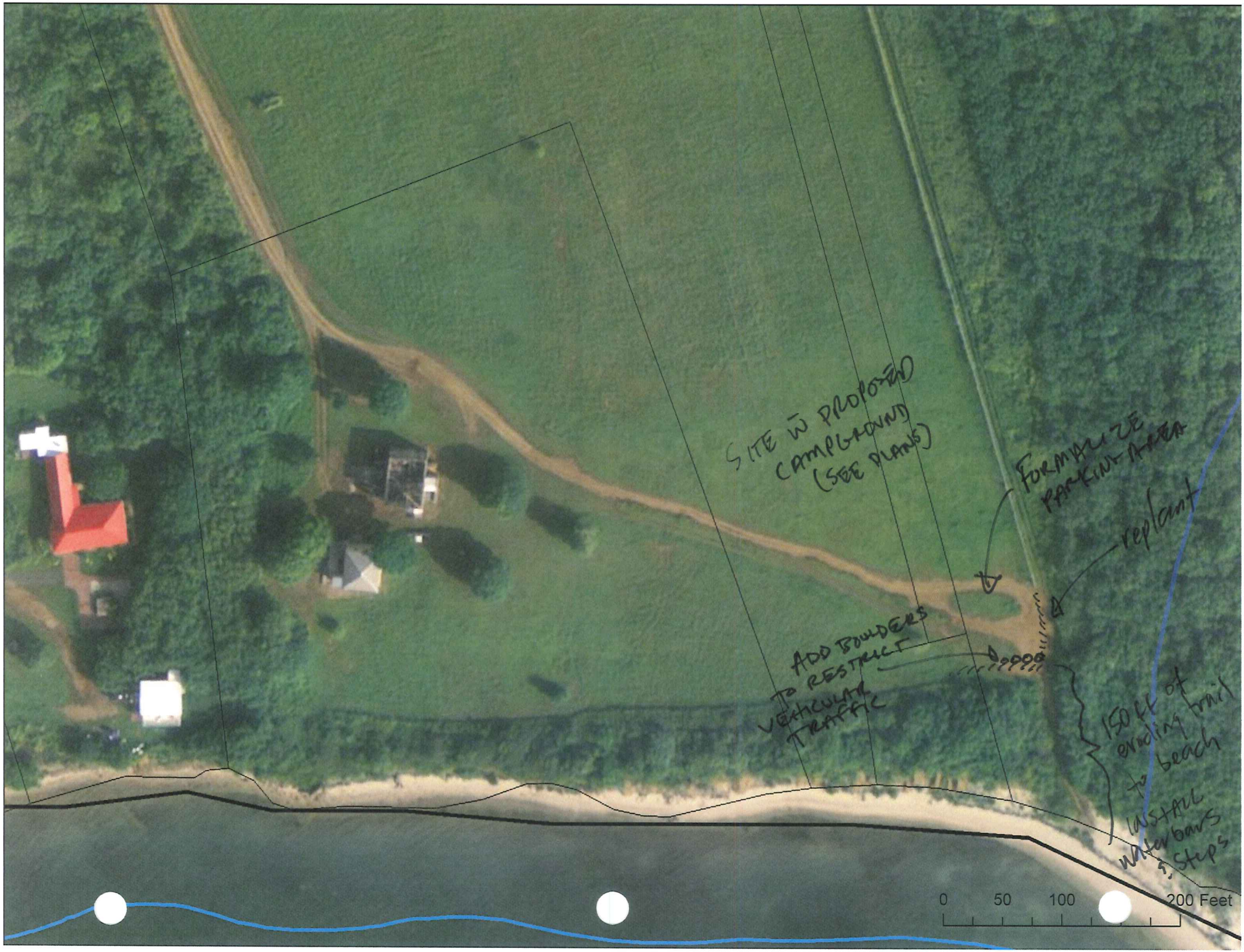
SEE AERIAL

NEED TO REVISIT SITE TO IDENTIFY POSSIBLE LOCATIONS FOR STEPS & WATER BARS.

Existing Head Available/Where Measured:

Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: ☐ Low ☐ Medium ☐ High


SITE W PROPOSED CAMPGROUND (SEE PLANS)
FORMALIZE PARKING AREA
replant
ADD BOULDERS TO RESTRICT VEHICULAR TRAFFIC
150 LF of eroding trail to beach
INSTALL waterbars & steps
0
50
100
200 Feet

STX EE WATERSHEDS — **ROADS & CULVERTS**

Site/Road Name/ID: GP-RC-1 Rte 624 Gut Crossing (Muddy Mongoose) Watershed: Great Pond

Date: 1/26/2010 Assessed by: RAC, KH, ACS

EXISTING CONDITION

☒ CULVERTS

SHAPE:
- ☐ Arch ☐ Bottomless
- ☐ Box ☐ Elliptical
- ☒ Circular
- ☐ Other:

 # BARRELS:
- ☐ Single
- ☒ Double
- ☐ Triple
- ☐ Other:

MATERIAL:
- ☒ Concrete
- ☐ Metal
- ☐ Other:

ALIGNMENT:
- ☐ Flow-aligned
- ☒ Not flow-aligned
- ☐ Do not know

DIMENSIONS: (*if variable, sketch*)
- Barrel diameter: _____(ft)
- Height: _____(ft)
- Culvert length: _____(ft)
- Width: _____(ft)
- Roadway elevation: _____(ft)

CONDITION: (*Evidence of…*) ☐ In good condition
- ☒ Cracking/chipping/corrosion
- ☒ Downstream scour hole
- ☐ Sediment deposition
- ☐ Upstream erosion
- ☐ Blockage
- ☐ Failing embankment
- ☐ Threatened infrastructure
- ☐ Other (*describe*):

CULVERT SLOPE:
- ☒ Flat
- ☐ Slight (2 – 5%)
- ☐ Steeper

IS IT FLOWING? ☒ No ☐ Yes

BLOCKAGE SEVERITY: ☒ none ☐ minor ☐ partial ☐ significant ☐ complete

Potential barrier to aquatic species? ☒ No ☐ Yes ☐ Unknown

Is it acting as grade control? ☒ No ☐ Yes ☐ Unknown

☐ ROAD SEGMENTS

SURFACE:
- ☐ Concrete
- ☐ Asphalt
- ☐ Unpaved: >gravel
- ☐ Unpaved: >dirt
- ☐ Other

STEEPNESS:
- ☐ Pretty flat
- ☐ Slight (around 5:1, 20%)
- ☐ Steep (more like 2:1, 50%)
- ☐ Big time steep (≥ 75%)

ACCESS/USE:
- ☐ Private
- ☐ Public
- ☐ Unknown

Total ROW Width: _____(ft)
Drive lane: _____(ft)
Shoulder: _____(ft)
Length of interest: _____

Surface: ☐ good condition ☐ minor maintenance needed ☐ large gullies and potholes
Drain Inlets/Catch basins: ☐ None ☐ clean ☒ blocked ☐ other:
Waterbars/dips/cross drains: ☐ None ☐ functioning ☒ need maintenance ☐ other:
Ditches: ☐ none ☐ shallow ☐ well-defined ☐ stable ☐ eroded ☐ excess vegetation ☐ other:
Discharge locations: ☐ Stable ☐ some erosion ☐ eroded ☐ other:

SEVERITY OF PROBLEM: ☐ High ☐ Med ☐ Low (Explain):

POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: ☐ HIGH ☐ MED ☐ LOW

DESCRIPTION OF EXISTING CONDITIONS:

wall has drainage ports – ∉ 15" DIP west of culvert abandoned two existing RCPs (15" & 24") cross road conc. flume @ outlet roadside swales drain to culverts 'Muddy Mongoose' potential development on North side of road

NEXT STEPS

Potential Repair Candidate? ☒ YES ☐ NO ☐ OTHER:

CONTACT ☐ DPW; ☐ LANDOWNER ☐ HOA; ☐ OTHER:

Site Name GP-RC-1

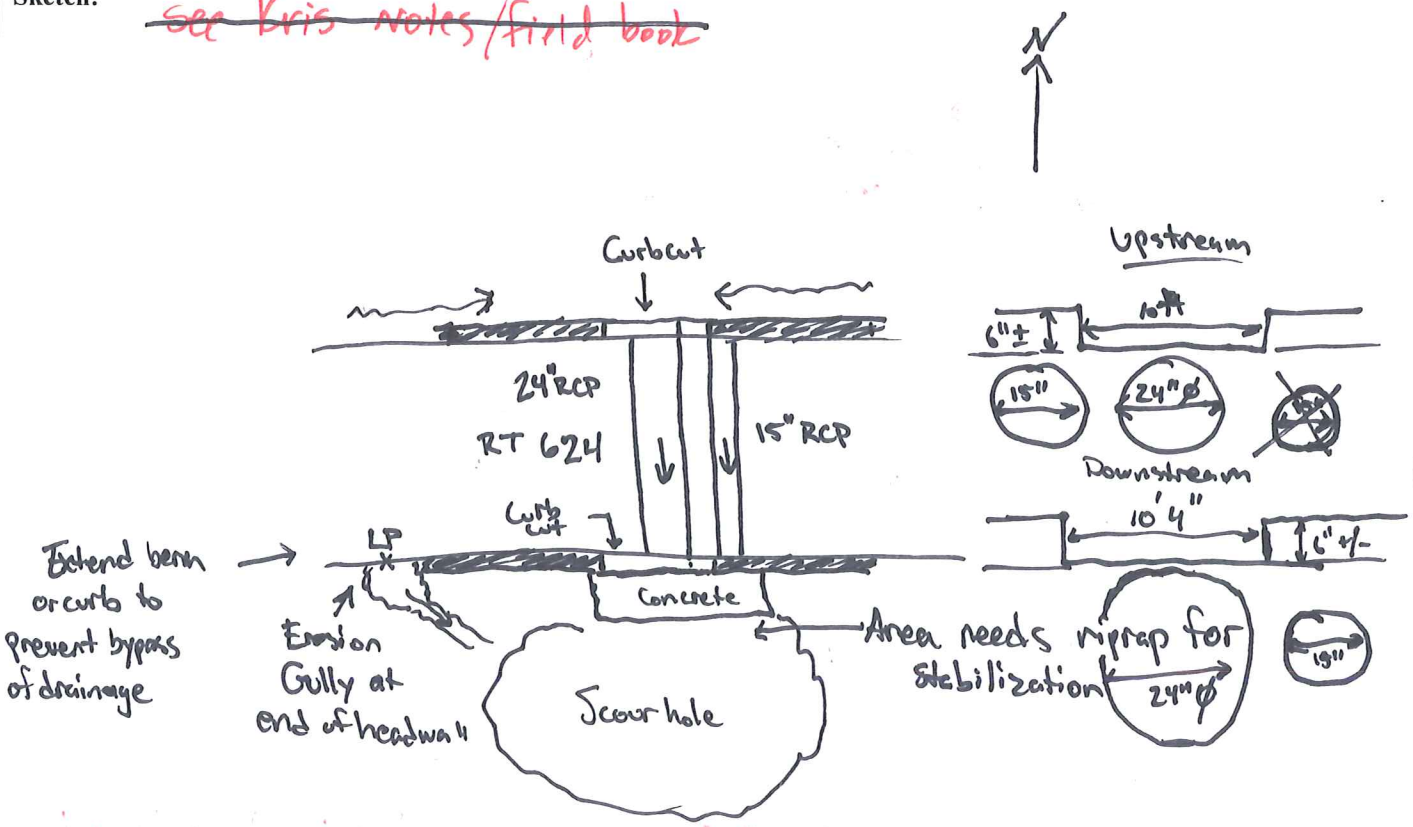
☐ SITE AERIAL INCLUDED

REPAIR/IMPROVEMENT CONCEPT

Narrative:

Proposed rip rap lining for scour hole to stabilize outlet stilling basin
berm @ overflow location west of culverts

Sketch: ~~see Kris notes/field book~~



Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Highly feasible but must consider development impacts

Thoughts on Maintenance Burden: ☐ Low ☒ Medium ☐ High

Muddy Mongoose development could impact capacity of culverts

Site Name GP-RC-1

STX EE WATERSHEDS **RETROFITS**

Site Name/ID: GP-RC-2 Milgies on Rte 642 **Watershed:** Great Pond

Date: 1/20/2010 **Assessed by:** RAC, ACS, KH

EXISTING SITE/STORMWATER MANAGEMENT

Site Contact Info: Milgies Grocery

Land Use: ☐ Public ☒ Private ☐ Unknown:

☐ Single Family Residential ☐ Multi-Fam. Residential ☐ School ☐ Golf Course ☐ Park ☐ Agricultural ☐ Road
☒ Commercial/Industrial ☐ Resort ☐ Marina ☐ Other: _____

Is the site a hotspot? ☐ Yes ☒ No ☐ Unknown:
Sources/pollutants observed? ☐ No ☐ Sediment ☐ Nutrients/organics ☐ Oil/grease ☐ Trash/Floatables

Existing Stormwater BMP on site? ☐ Yes ☒ No ☐ Unknown:

Soils: ☒ Unknown ☐ poor infiltration ☐ good infiltration

Describe Existing Stormwater Conditions, Including Existing Site Drainage and Conveyance: gut flows from Sally's Fancy Neighborhood along fenceline to roadway then east parallel to Rte 624 and flooding in Milgies parking. Water then flows across road via concrete swale south to Great Pond. Ponding/debris obstructing flow at fence.

PROPOSED RETROFIT CONCEPT *(CONT. ON BACK)*

Proposed Retrofit Practice(s): ☐ existing BMP upgrade ☒ new BMP

☐ island bio/rain garden ☐ swale ☐ planter ☐ tree pits ☐ infiltration ☐ permeable paver ☐ sand filter ☐ pond
☐ constructed wetland ☐ proprietary practice ☐ soil amendments ☐ reforestation ☐ impervious cover removal
☐ rainwater harvesting ☐ disconnection ☒ Other (describe): drainage improvements on uphill side

Area Draining to Retrofit
☐ Hotspot ☐ Individual rooftop
☒ Parking Lot ☐ other small impervious area
☐ Street ☒ Pervious area turf
☐ Other (describe):

Drainage Area to retrofit ≈ _____ acres/sq ft

Imperviousness ≈ _____ %

Impervious Area ≈ _____ acres/sq ft

Benefits of Retrofit (primary & secondary): ☐ Storage ☐ Water Quality ☐ Recharge ☐ Gut Protection ☐ Demonstration / Education ☒ Repair ☒ Other: drainage improvements/alleviate chronic flooding

Possible Conflicts due to: ☐ Soils ☐ Access
☐ Adjacent Land Use ☐ Existing Utilities
☐ Contamination ☒ High water table
☐ Limited access to water ☐ Other:

Describe conflicts:

NEXT STEPS

Candidate for pilot project ☐ yep, love it ☐ OK ☐ undecided ☒ no, but keep listed ☐ no way

Follow-up needed to Complete Field Concept
☒ Confirm property ownership
☐ Confirm drainage area/impervious cover
☐ Confirm volume computations
☐ Complete concept sketch
☐ Obtain existing as-builts/site plans
☐ Obtain detailed topography
☐ Confirm storm drain invert elevations
☐ Other:
☐ Obtain utility mapping
☐ Confirm soil types

☒ SITE AERIAL INCLUDED

PROPOSED RETROFIT CONCEPT (CONT.)

Narrative Description (Including key elements, aprox. surface area/ depth of treatment, conveyance structures):
excavate swale/ditch along road @ base of parking lot leading from gut to swale. Pave dirt parking area @ west end of Milgies to prevent rutting and ponding.

Sketch and/or Sizing Calcs: see aerial

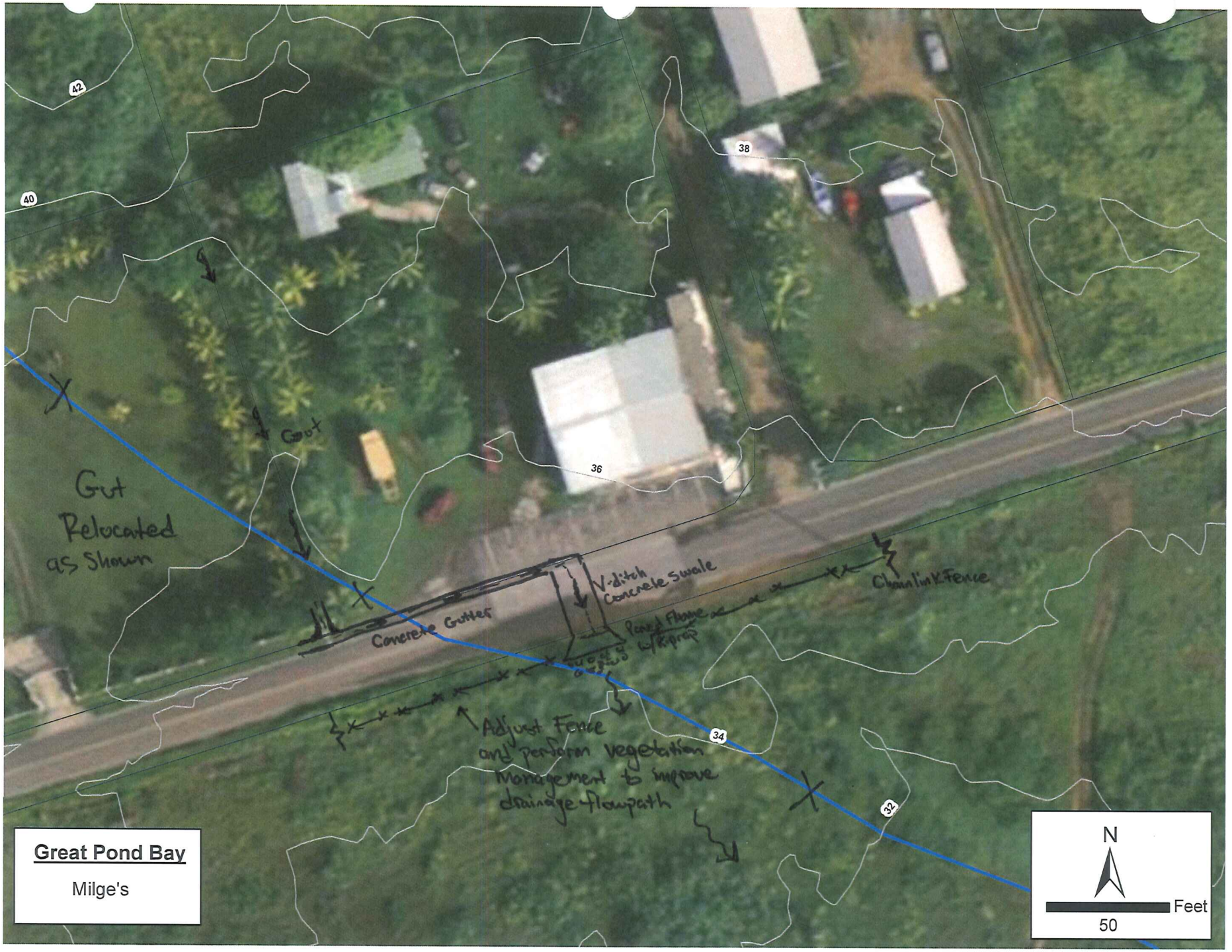
Existing Head Available/Where Measured: None

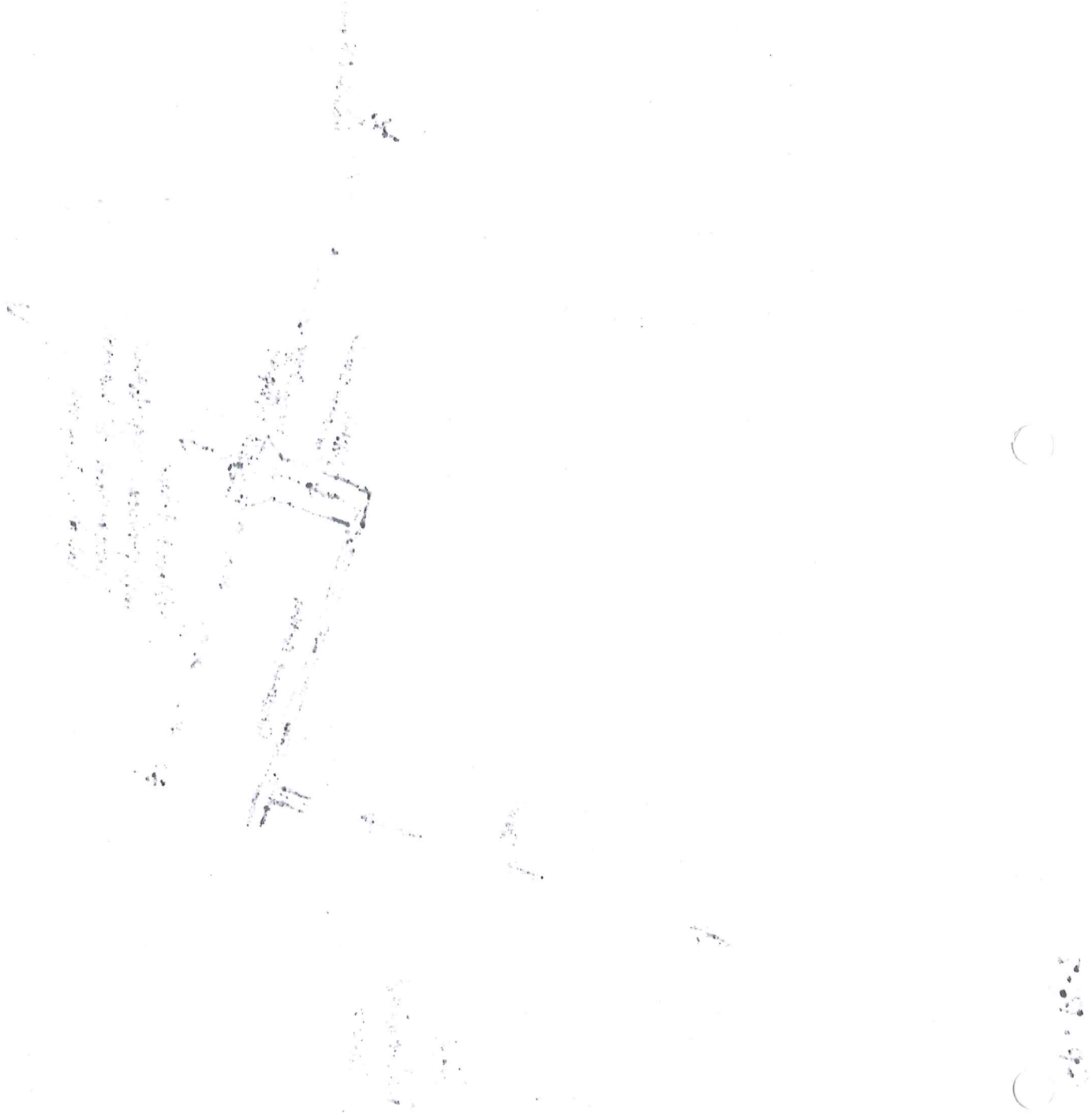
Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

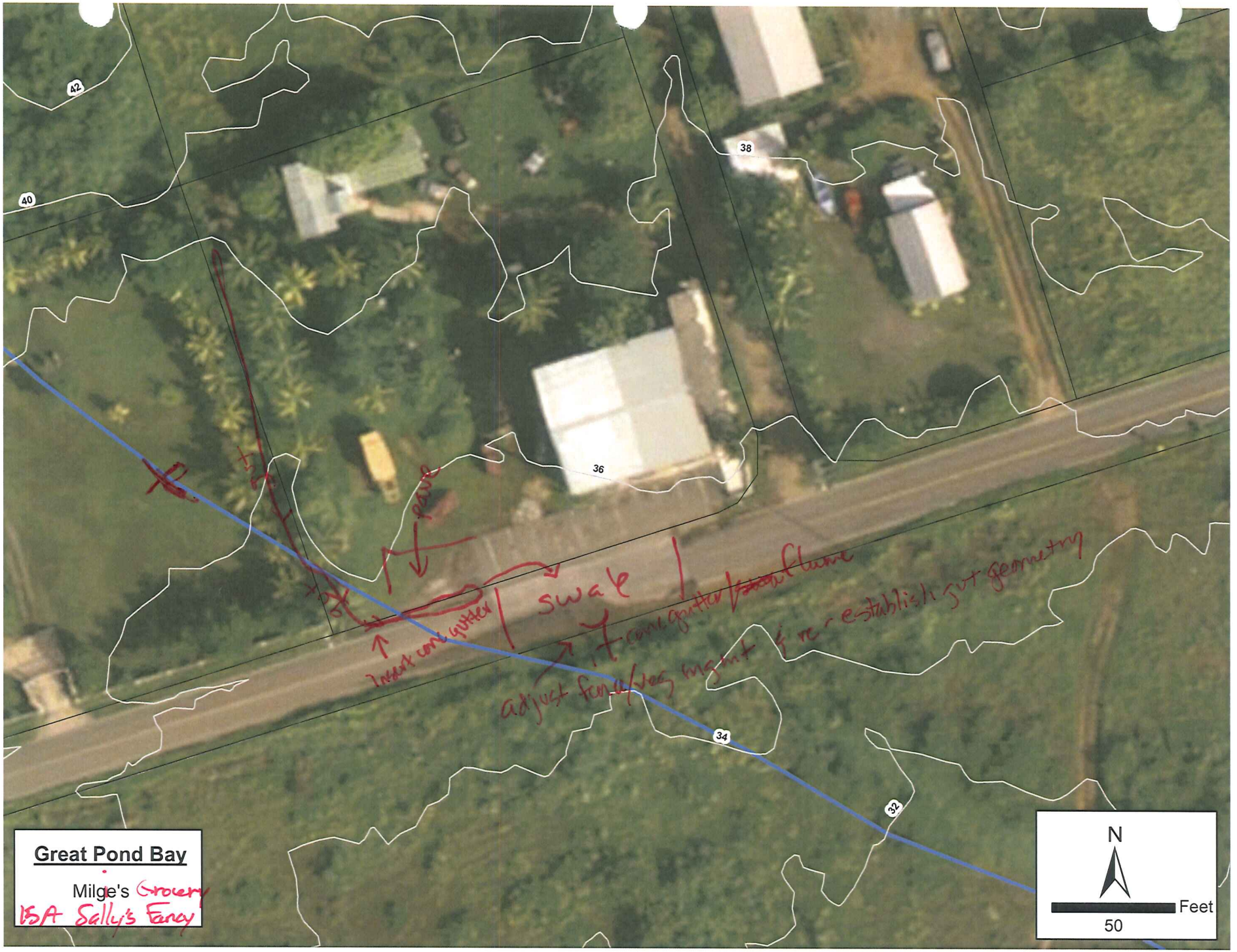
Thoughts on Maintenance Burden: ☐ Low ☐ Medium ☐ High

Site ID GP-R-2

GP - BC-2


42
40
38
36
34
32
Gut
Gut Relocated as Shown
Concrete Gutter
V-ditch Concrete Swale
Paved Flume w/Riprap
Chain link Fence
Adjust Fence and perform vegetation Management to improve drainage flowpath
Great Pond Bay
Milge's
N
Feet
50




42
40
38
36
34
32
pave
swale
Insert conc gutter
adjust fence/veg height & re-establish cut geometry
Great Pond Bay
Milge's Grocery
15A Sally's Fancy
N
Feet
50

GP-12-22

STX EE WATERSHEDS **ROADS & CULVERTS**

Site/Road Name/ID: GP-RC-~~3~~4/Marienhoj **Watershed:** Great Pond

Date: 1/27/2021 **Assessed by:** KH, ACS, RAC

EXISTING CONDITION

☒ CULVERTS

SHAPE:
- ☐ Arch ☐ Bottomless
- ☐ Box ☐ Elliptical
- ☒ Circular
- ☐ Other:

 # BARRELS:
- ☒ Single
- ☐ Double
- ☐ Triple
- ☐ Other:

MATERIAL:
- ☐ Concrete
- ☒ Metal
- ☐ Other:

ALIGNMENT:
- ☒ Flow-aligned
- ☐ Not flow-aligned
- ☐ Do not know

DIMENSIONS: (*if variable, sketch*)

Barrel diameter: 24" (ft)

Height: _____(ft)

Culvert length: _____(ft)

Width: _____(ft)

Roadway elevation: _____(ft)

CONDITION: (*Evidence of…*) ☐ In good condition
- ☐ Cracking/chipping/corrosion
- ☒ Downstream scour hole
- ☐ Sediment deposition
- ☐ Upstream erosion
- ☒ Blockage
- ☐ Failing embankment
- ☐ Threatened infrastructure
- ☒ Other (*describe*): eroded road side/sideslope

CULVERT SLOPE:
- ☐ Flat
- ☐ Slight (2 – 5%)
- ☒ Steeper

IS IT FLOWING?
- ☐ No ☐ Yes

BLOCKAGE SEVERITY: ☐ none ☐ minor ☒ partial (upstream) ☐ significant ☐ complete

Potential barrier to aquatic species? ☒ No ☐ Yes ☐ Unknown

Is it acting as grade control? ☒ No ☐ Yes ☐ Unknown

☐ ROAD SEGMENTS

SURFACE:
- ☐ Concrete
- ☐ Asphalt
- ☐ Unpaved: >gravel
- ☐ Unpaved: >dirt
- ☐ Other

STEEPNESS:
- ☐ Pretty flat
- ☐ Slight (around 5:1, 20%)
- ☐ Steep (more like 2:1, 50%)
- ☐ Big time steep (≥ 75%)

ACCESS/USE:
- ☒ Private
- ☐ Public
- ☐ Unknown

Total ROW Width: _____(ft)

Drive lane: _____(ft)

Shoulder: _____(ft)

Length of interest: _____

Surface: ☐ good condition ☐ minor maintenance needed ☐ large gullies and potholes

Drain Inlets/Catch basins: ☐ None ☐ clean ☐ blocked ☐ other:

Waterbars/dips/cross drains: ☐ None ☐ functioning ☐ need maintenance ☐ other:

Ditches: ☐ none ☐ shallow ☐ well-defined ☐ stable ☐ eroded ☐ excess vegetation ☐ other:

Discharge locations: ☐ Stable ☐ some erosion ☐ eroded ☐ other:

SEVERITY OF PROBLEM: ☐ High ☒ Med ☐ Low (Explain):

POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: ☐ HIGH ☐ MED ☐ LOW

DESCRIPTION OF EXISTING CONDITIONS: attempt at conc. flume – eroding
partial blockage of culvert mlt
outlet hanging/suspended and 3ft scour hole downstream
culvert undermined
moderate bank erosion ~15ft wide

NEXT STEPS

Potential Repair Candidate? ☒ YES ☐ NO ☐ OTHER:

CONTACT ☐ DPW; ☐ LANDOWNER ☒ HOA; ☐ OTHER:

?

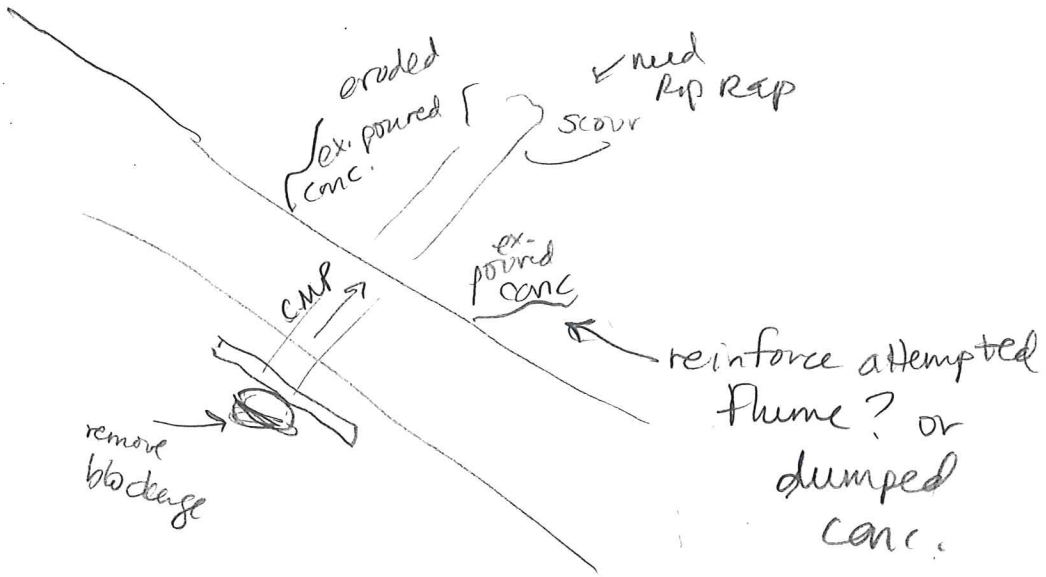
Site Name GP-RC-~~3~~4.

☐ SITE AERIAL INCLUDED

REPAIR/IMPROVEMENT CONCEPT

Narrative: Extend paved flume Stabilize below with rip rap. Fill in undermined area beneath culvert and clear blockage/debris @ inlet

Sketch: (additional info in Kris field book)



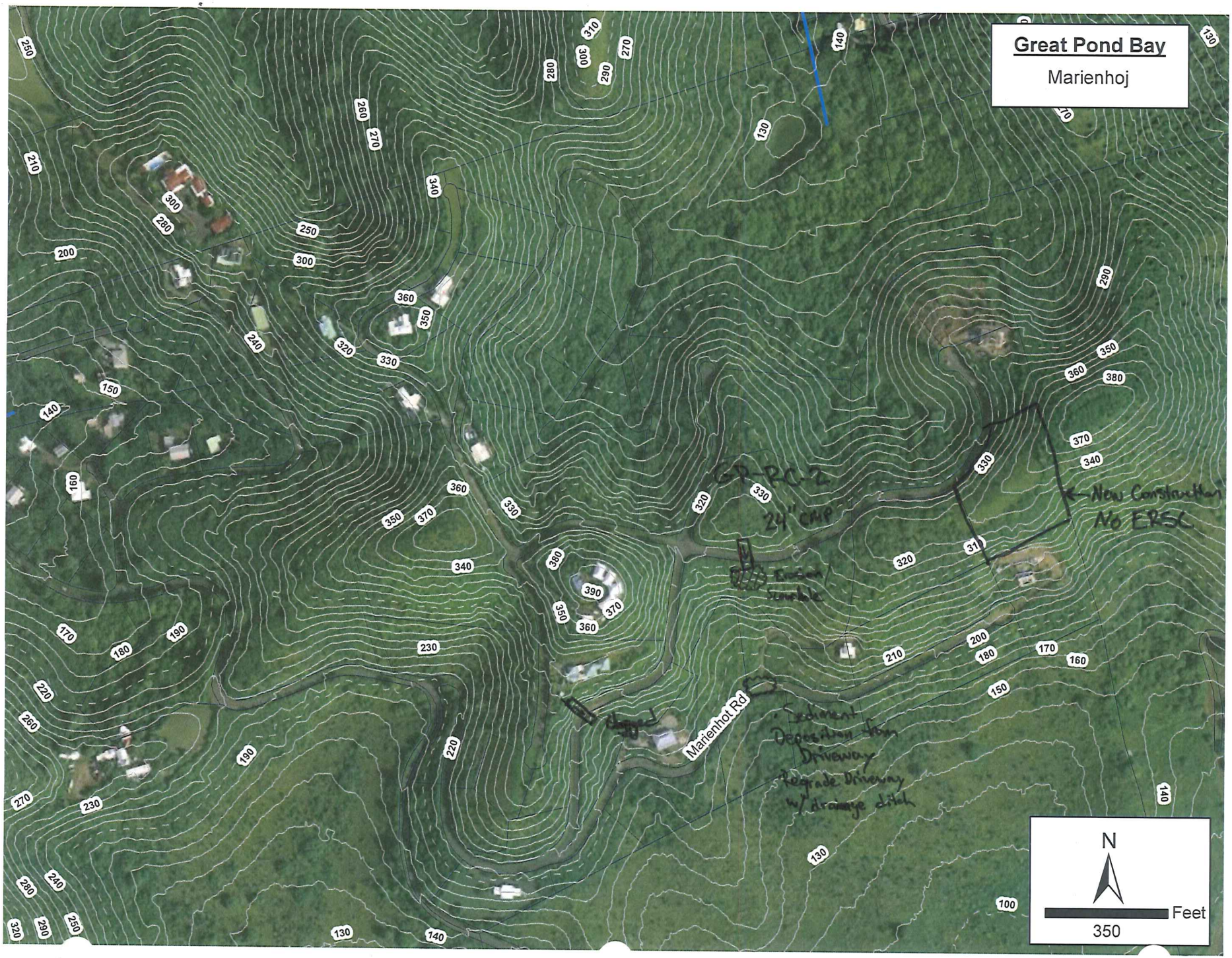
existing flume is bypassed

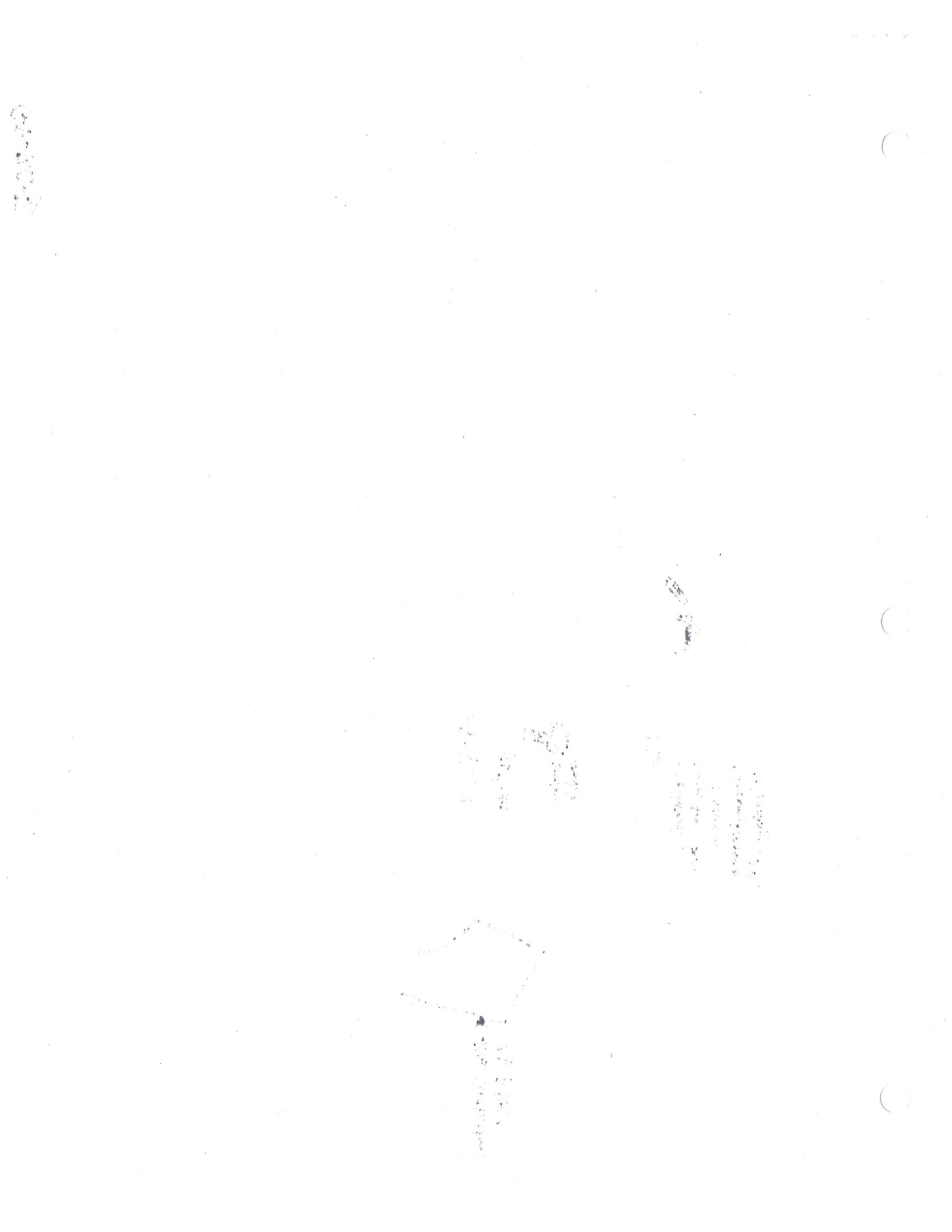
Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

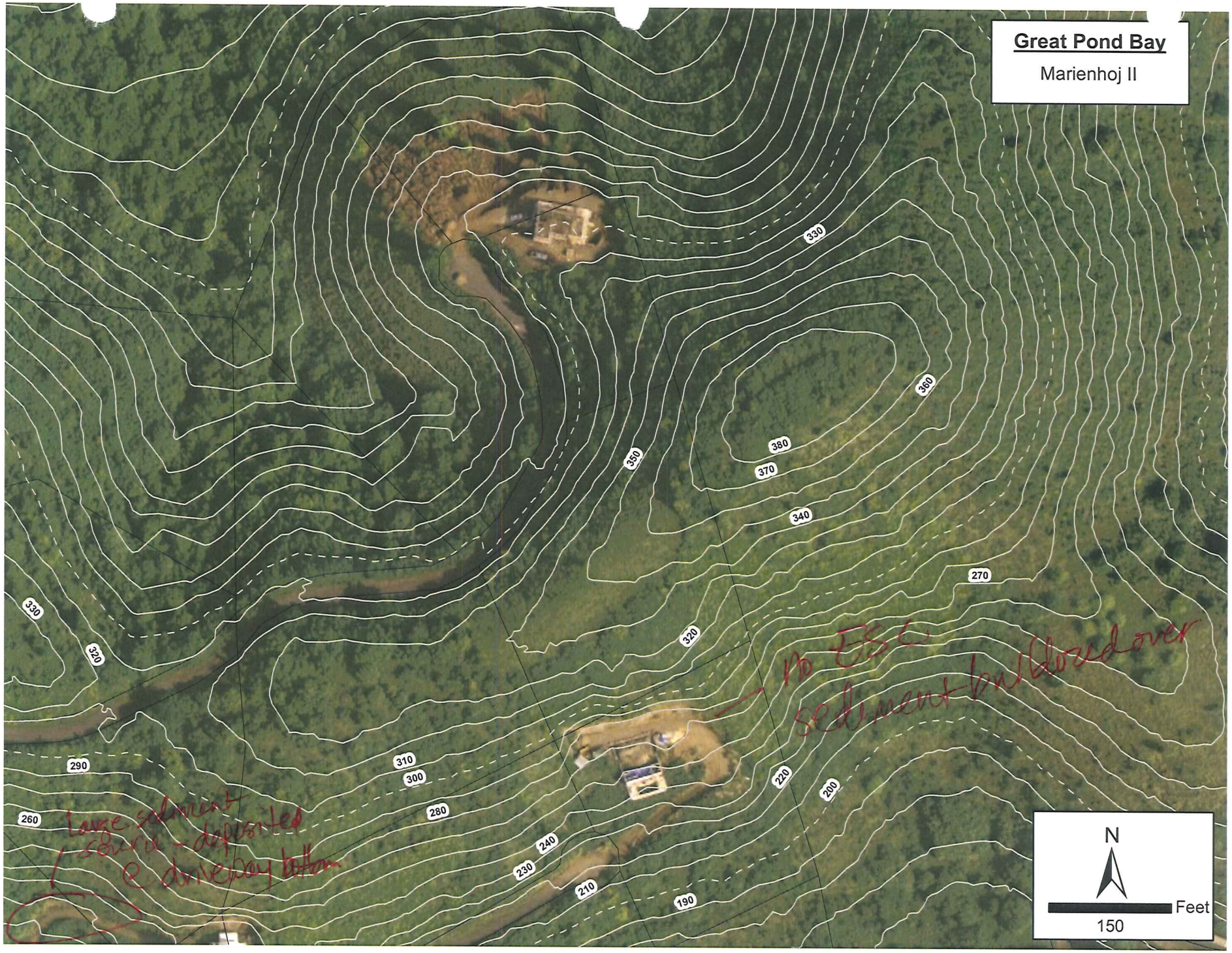
Thoughts on Maintenance Burden: ☐ Low ☐ Medium ☐ High

Site Name GR-RC-2

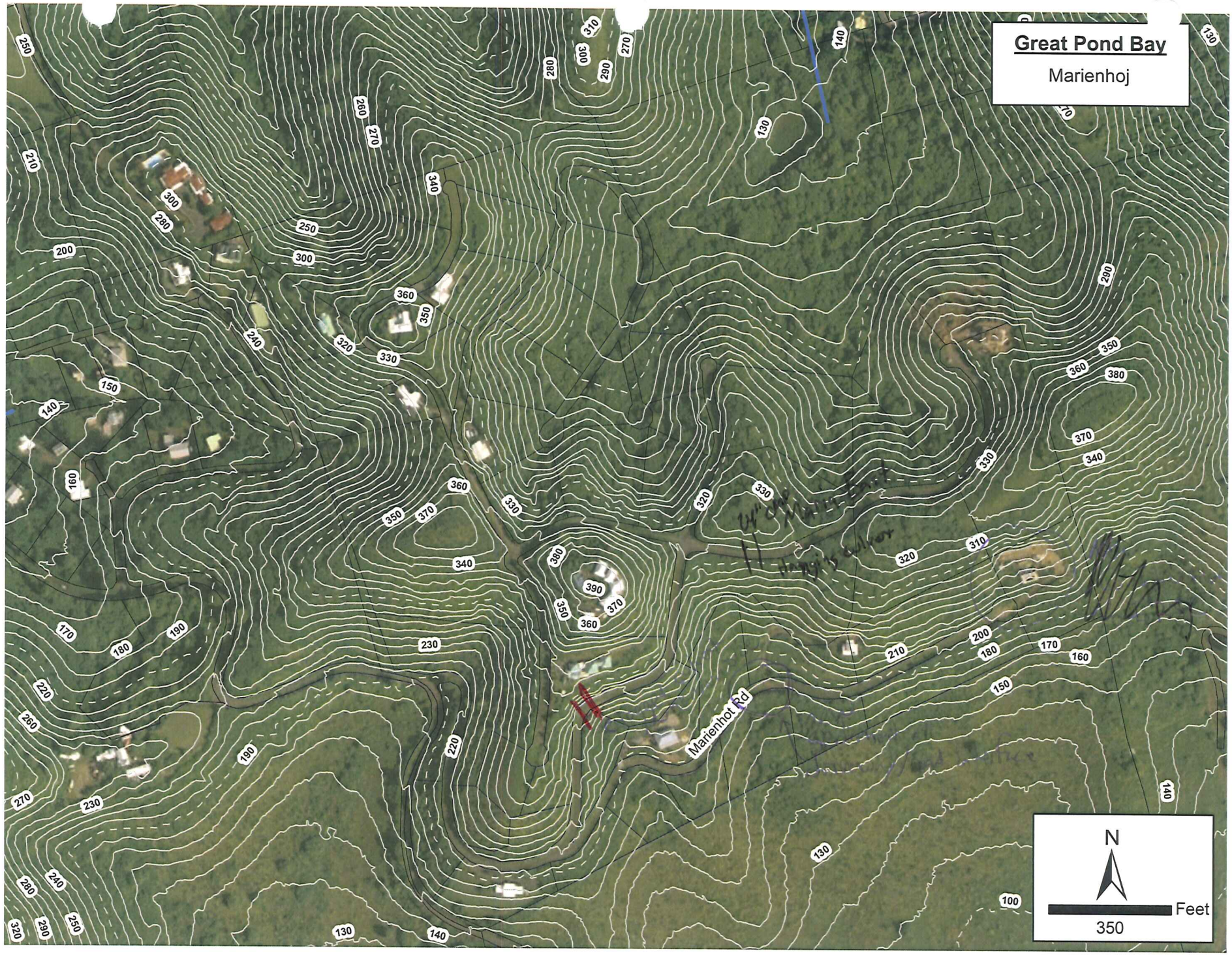
GP-RC-3


Great Pond Bay
Marienhoj
GP-RC-2
24" CMP
New Construction
NO ERSC
Marienhot Rd
Sediment Deposition from Driveway
Regrade Driveway w/ drainage detail
N
Feet
350




Great Pond Bay
Marienhoj II
330
360
380
370
350
340
270
320
330
320
290
310
300
280
260
240
230
210
220
200
190
N
Feet
150
Large sediment
source - deposited
@ driveway bottom
No ESC
sediment bulldozed over

GP-RC-4



GP-RC-4

STX EE WATERSHEDS — **ROADS & CULVERTS**

Site/Road Name/ID: RC-33 **Watershed:** GP

te: Unnamed road next to WASHINGTON LN **Assessed by:** Kris & Anne

EXISTING CONDITION

☐ CULVERTS

SHAPE:
☐ Arch ☐ Bottomless
☐ Box ☐ Elliptical
☐ Circular
☐ Other:

 # BARRELS:
☐ Single
☐ Double
☐ Triple
☐ Other:

MATERIAL:
☐ Concrete
☐ Metal
☐ Other:

ALIGNMENT:
☐ Flow-aligned
☐ Not flow-aligned
☐ Do not know

DIMENSIONS: (*if variable, sketch*)
Barrel diameter: _____(ft)
Height: _____(ft)
Culvert length: _____(ft)
Width: _____(ft)
Roadway elevation: _____(ft)

CONDITION: (*Evidence of...*) ☐ In good condition
☐ Cracking/chipping/corrosion ☐ Downstream scour hole
☐ Sediment deposition ☐ Upstream erosion
☐ Blockage ☐ Failing embankment
☐ Threatened infrastructure ☐ Other (*describe*):

CULVERT SLOPE:
☐ Flat
☐ Slight (2 – 5%)
☐ Steeper

IS IT FLOWING?
☐ No ☐ Yes

BLOCKAGE SEVERITY: ☐ none ☐ minor ☐ partial ☐ significant ☐ complete

Potential barrier to aquatic species? ☐ No ☐ Yes ☐ Unknown

Is it acting as grade control? ☐ No ☐ Yes ☐ Unknown

☒ ROAD SEGMENTS

SURFACE:
☐ Concrete
☐ Asphalt
☒ Unpaved: >gravel
☐ Unpaved: >dirt
☐ Other

STEEPNESS:
☐ Pretty flat
☐ Slight (around 5:1, 20%)
☒ Steep (more like 2:1, 50%)
☐ Big time steep (≥ 75%)
slight at bottom

ACCESS/USE:
☒ Private
☐ Public
☐ Unknown

Total ROW Width: _____(ft)
Drive lane: 16 (ft)
Shoulder: _____(ft)
Length of interest: _____

Surface: ☐ good condition ☐ minor maintenance needed ☐ large gullies and potholes
Drain Inlets/Catch basins: ☐ None ☐ clean ☐ blocked ☐ other:
Waterbars/dips/cross drains: ☐ None ☐ functioning ☐ need maintenance ☐ other:
Ditches: ☐ none ☐ shallow ☐ well-defined ☐ stable ☐ eroded ☐ excess vegetation ☐ other:
Discharge locations: ☐ Stable ☐ some erosion ☐ eroded ☐ other:

SEVERITY OF PROBLEM: ☐ High ☒ Med ☐ Low (Explain):
LOTS of DIRT getting across main road

POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: ☐ HIGH ☐ MED ☒ LOW

DESCRIPTION OF EXISTING CONDITIONS:
water pitches to left side (facing uphill) some erosion in
could do something now to help prevent more problem

NEXT STEPS

Potential Repair Candidate? ☐ YES ☐ NO ☐ OTHER:

CONTACT ☐ DPW; ☐ LANDOWNER ☐ HOA; ☐ OTHER:

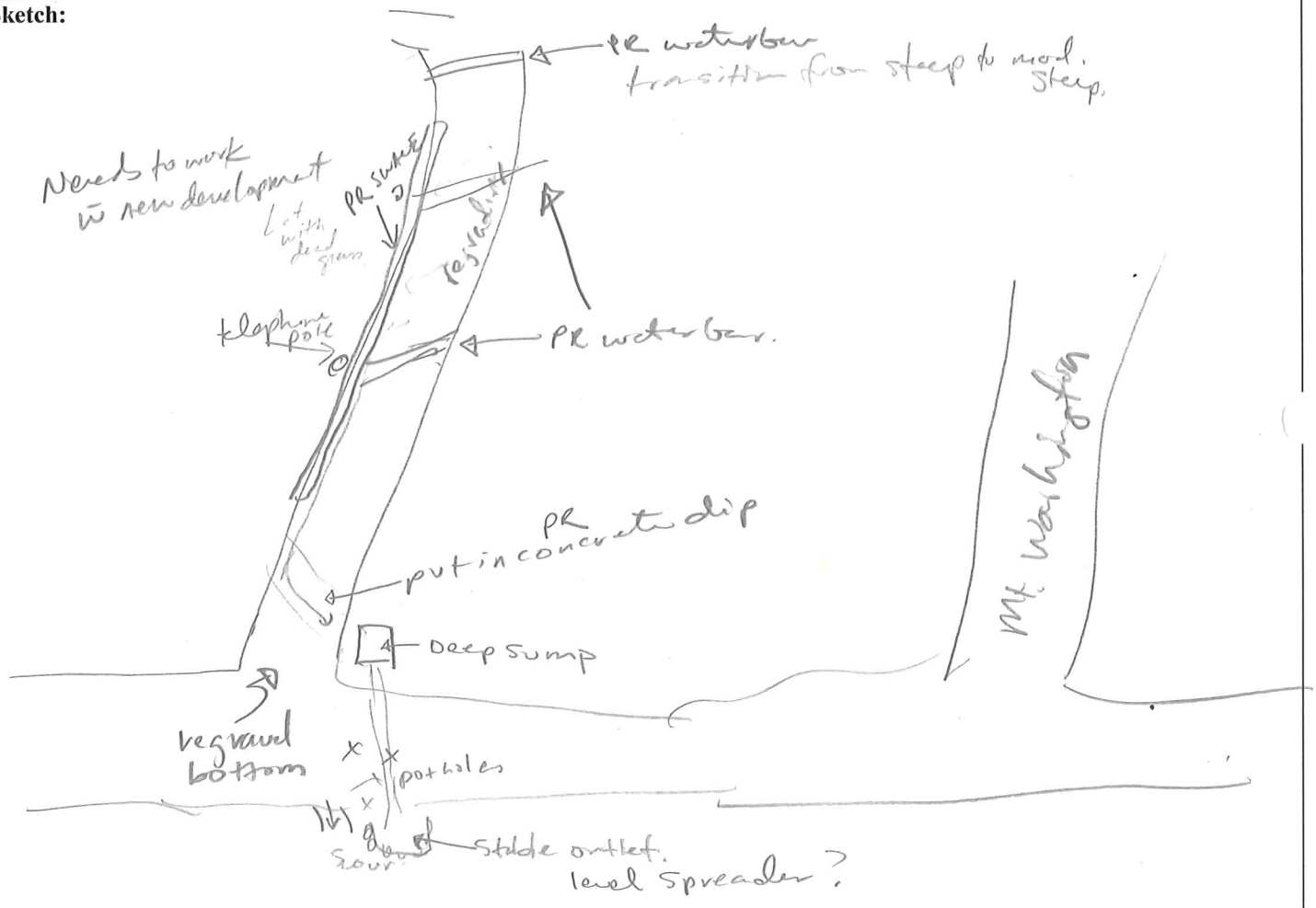
Site Name_____.

☐ SITE AERIAL INCLUDED

REPAIR/IMPROVEMENT CONCEPT

Narrative:

Sketch:



Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: ☐ Low ☒ Medium ☐ High

will need to clean sed. out

Site Name_____

STX EE WATERSHEDS — **ROADS & CULVERTS**

Site/Road Name/ID: RC 34 on SouthShore Rd. **Watershed:** GP

Date: _____ **Assessed by:** Kris & Anne

EXISTING CONDITION

☒ CULVERTS

SHAPE:
- ☐ Arch ☐ Bottomless
- ☐ Box ☐ Elliptical
- ☒ Circular
- ☐ Other:

 # BARRELS:
- ☒ Single
- ☐ Double
- ☐ Triple
- ☐ Other:

MATERIAL:
- ☒ Concrete
- ☐ Metal
- ☐ Other:

ALIGNMENT:
- ☐ Flow-aligned
- ☐ Not flow-aligned
- ☐ Do not know

DITCH

CONDITION: (*Evidence of...*) ☐ In good condition
- ☐ Cracking/chipping/corrosion
- ☐ Sediment deposition
- ☒ Blockage
- ☐ Threatened infrastructure
- ☐ Downstream scour hole
- ☐ Upstream erosion
- ☐ Failing embankment
- ☐ Other (*describe*):

CULVERT SLOPE:
- ☐ Flat
- ☐ Slight (2 – 5%)
- ☐ Steeper

IS IT FLOWING?
- ☒ No ☐ Yes

BLOCKAGE SEVERITY: ☐ none ☐ minor ☐ partial ☐ significant ☒ complete

Potential barrier to aquatic species? ☒ No ☐ Yes ☐ Unknown IN DITCH

Is it acting as grade control? ☒ No ☐ Yes ☐ Unknown

DIMENSIONS: (*if variable, sketch*)
- Barrel diameter: 12" (ft)
- Height: _____(ft)
- Culvert length: _____(ft)
- Width: _____(ft)
- Roadway elevation: _____(ft)

☐ ROAD SEGMENTS

SURFACE:
- ☐ Concrete
- ☐ Asphalt
- ☐ Unpaved: >gravel
- ☐ Unpaved: >dirt
- ☐ Other

STEEPNESS:
- ☐ Pretty flat
- ☐ Slight (around 5:1, 20%)
- ☐ Steep (more like 2:1, 50%)
- ☐ Big time steep (≥ 75%)

ACCESS/USE:
- ☐ Private
- ☐ Public
- ☐ Unknown

- Total ROW Width: _____(ft)
- Drive lane: _____(ft)
- Shoulder: _____(ft)
- Length of interest: _____

Surface: ☐ good condition ☐ minor maintenance needed ☐ large gullies and potholes
Drain Inlets/Catch basins: ☐ None ☐ clean ☐ blocked ☐ other:
Waterbars/dips/cross drains: ☐ None ☐ functioning ☐ need maintenance ☐ other:
Ditches: ☐ none ☐ shallow ☐ well-defined ☐ stable ☐ eroded ☐ excess vegetation ☐ other:
Discharge locations: ☐ Stable ☐ some erosion ☐ eroded ☐ other:

SEVERITY OF PROBLEM: ☐ High ☒ Med ☐ Low (Explain):

POTENTIAL FOR SEDIMENT LOADING TO RESOURCE AREA: ☐ HIGH ☐ MED ☐ LOW

DESCRIPTION OF EXISTING CONDITIONS:

12" RCP completely blocked; maintenance scooped out sediment w backhoe scoops

NEXT STEPS

Potential Repair Candidate? ☒ YES ☐ NO ☐ OTHER:

CONTACT ☒ DPW; ☐ LANDOWNER ☐ HOA; ☐ OTHER:

Site Name_____.

☐ SITE AERIAL INCLUDED

REPAIR/IMPROVEMENT CONCEPT

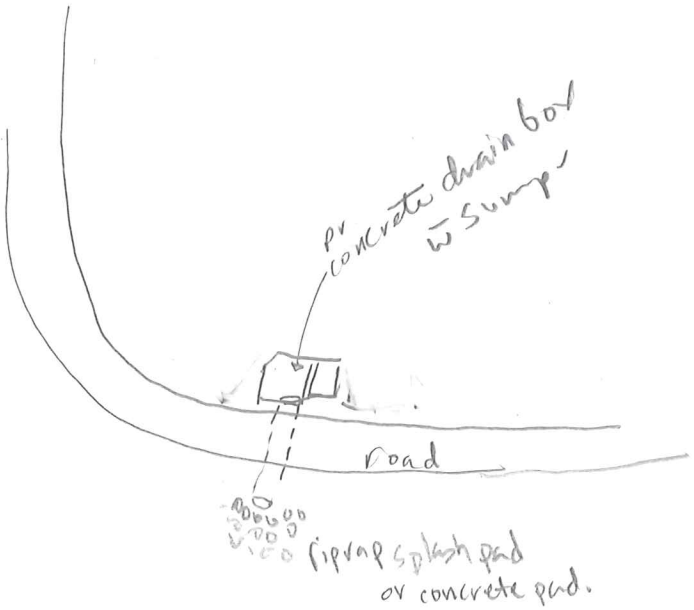
Narrative:

put in concrete ~~box (sloped)~~ drain box w a sump need to flush out pipe & stabilize outfall

may have to regrade swale.

Sketch:

Drainbox w a sump. (see Kris' notes)



Initial Feasibility and Construction Considerations/ Design or Delivery Notes:

Thoughts on Maintenance Burden: ☒ Low ☐ Medium ☐ High

will have to scoop out

Site Name_____

Gut Restoration

Cmt Rec'd 4/29/94 via

STX EE WATERSHEDS

ROAD / **GUT RESTORATION**

Site Name/ID: GP-GR-1/Southside Rd.
Date: 1/26/2011

Watershed: Great Pond
Assessed by: RAC, KH, ACS

EXISTING CONDITION

LAND OWNER CONTACT INFO: UNKNOWN - Residential Parcel on Solitude Road Schuster owns nearby parcel treehouse msmt in Sally's Fancy

LAND OWNERSHIP: ☐ Private ☐ Public ☐ Unknown

LAND COVER: ☐ Forest ☐ Field/Ag ☐ Developed:

LIVESTOCK ON SITE: ☐ Yes ☐ No ☐ Unknown #:_____ **LIVESTOCK HAVE CURRENT GUT ACCESS:** ☐ Yes ☐ No

DRAINS TO DOWNSTREAM IMPOUNDMENT OR POND: ☐ Yes ☐ No ☒ Unknown

☒ **EROSION**

☐ Channelized

TYPE:
- ☐ Downcutting
- ☐ Widening
- ☒ Headcutting
- ☒ Bed scour
- ☒ Bank erosion

BANK OF CONCERN: ☐ LT ☐ RT ☒ Both *(looking downstream)*

LOCATION: ☐ Meander bend ☐ Straight section ☐ Steep slope/valley wall ☐ Other:

DIMENSIONS:

Length *(if no GPS)*	LT_____ft	and/or RT_____ft	Bottom width _____ft
Bank Ht	LT_____ft	and/or RT_____ft	Top width _____ft
Bank Angle	LT_____°	and/or RT_____°	Wetted Width _____ft

THREAT TO PROPERTY/INFRASTRUCTURE: ☐ No ☐ Yes (Describe):

RIPARIAN AREA

EXISTING RIPARIAN WIDTH (NO STRUCTURES): ☐ ≤25 ft ☐ 25 - 50 ft ☐ 50-75ft ☐ 75-100ft ☐ >100ft

DOMINANT COVER

	Paved	Bare ground	Turf/lawn	Tall grass	Shrub/scrub	Trees	Other:
LT	☐	☐	☒	☐	☐	☒	☐:
RT	☒	☐	☒	☐	☐	☒	☐:

DESCRIBE:

WETLANDS PRESENT: ☐ Yes ☒ No ☐ Unknown

DESCRIBE EXISTING PROBLEM Poor road drainage management bad downstream scour hole & headcutting. Road drainage flows through yard and bypasses roadside curb/swale. headcutting in yard

EROSION SEVERITY	Active downcutting; tall banks on both sides of the stream eroding at a fast rate; erosion contributing significant amount of sediment to stream; obvious threat to property or infrastructure.		Pat downcutting evident, active stream widening, banks actively eroding at a moderate rate; no threat to property or infrastructure	Grade and width stable; isolated areas of bank failure/erosion; likely caused by a pipe outfall, local scour, impaired riparian vegetation or adjacent use.
	5	4	3	2 1
ACCESS:	**Good access:** Open area in public ownership, sufficient room to stockpile materials, easy stream channel access for heavy equipment using existing roads or trails.		**Fair access**: Forested or developed area adjacent to stream. Access requires tree removal or impact to landscaped areas. Stockpile areas small or distant from stream.	**Difficult access.** Must cross wetland, steep slope or other sensitive areas to access stream. Minimal stockpile areas available and/or located a great distance from stream section. Specialized heavy equipment required.
	(5)	4	3	2 1

NEXT STEPS:

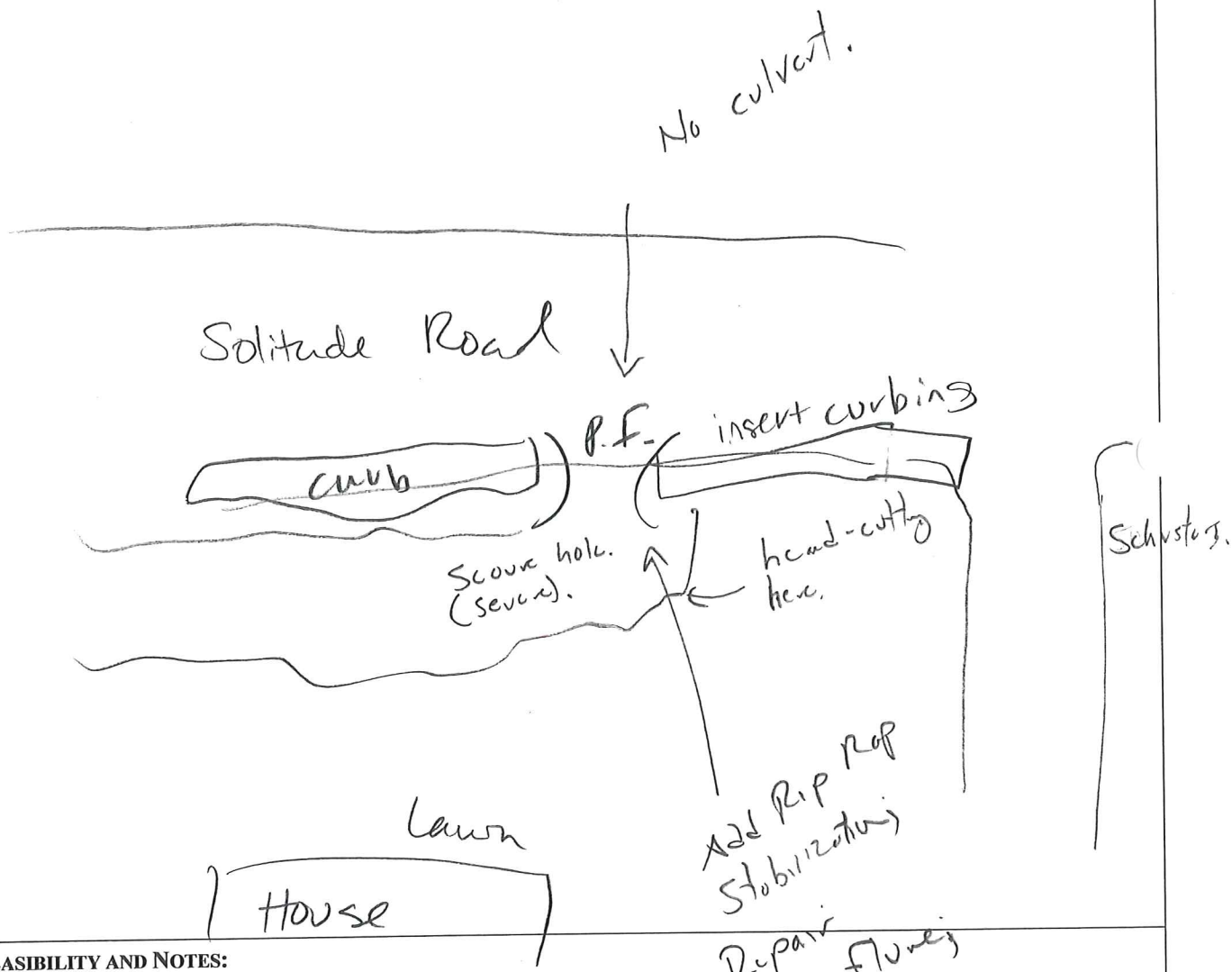
☐ SITE AERIAL INCLUDED

RESTORATION CONCEPT:

NARRATIVE

insert conc curb & paved flume to redirect water & stabilize banks

SKETCH:



INITIAL FEASIBILITY AND NOTES:

Site ID_____.

STX EE WATERSHEDS **RESIDENTIAL**

Site Name/ID: GP-RES-1 / Sally's Fancy **Watershed:** Great Pond Bay

Date: 1/26/2021 **Assessed by:** RAC & ACS & KH

EXISTING CONDITIONS

Homeowners Association? ☐ No ☐ Yes ☒ Unknown If yes, name and contact information:

Main Road Names: Southside Road, Rte 624

Approximate Neighborhood Area (acres) _____ # of lots _____ (# or % undeveloped _____)

☐ Single Family Attached (Duplexes, Row Homes) <⅛ ⅛ ¼ ⅓ ⅓ acre ☐ Multifamily (Apts., Condos)

☒ Single Family Detached 1/4 to 3 ac lots <¼ (¼) ½ 1 >1 acre ☐ Other

Index of Infill, Redevelopment, and Remodeling ☐ No Evidence ☐ <5% of existing units ☐ 5-10% ☐ >10%

Waste water Management? ☐ Public sewer ☒ On-site septic ☐ Small package plant

Problems observed with septic systems? ☒ No ☐ Yes (describe):

AVERAGE ROAD CONDITION

Pavement: Type ☐ All Paved ☐ mixed, mostly paved ☐ mixed, mostly unpaved ☒ all unpaved except 624 & Southside

Condition ☐ Good/mostly good (new, few areas requiring regrading or maintenance)
☒ Some road sections need attention (minor erosion, pavement repair needed, limited)
☐ Significant maintenance issues (most of road network in bad shape)

Drainage: Type ☐ Curb/gutter ☐ Mixed, mostly curbed ☐ Mixed, mostly open section ☒ Open drainage

Drain Inlets/Catch basins: ☒ None ☐ Clean ☐ Blocked ☐ Other:

Waterbars/dips/crossdrains: ☒ None ☐ Functioning ☐ Need maintenance ☐ Other:

Ditches: ☒ None ☐ Shallow ☐ Well-defined ☐ Stable ☐ Eroded ☐ Full of thick vegetation ☐ Other:

Discharge locations: ☐ Stable ☐ Some erosion ☐ Eroded ☐ Other:

Existing Stormwater BMPs on site? ☐ Unknown ☒ No ☐ Yes, describe:

Average Lot Cover: _____%bare remaining % turf _____%landscape(include trees) 10-25 % rooftop _____%driveway (not roof)

Average Driveway: ☐ Impervious ☒ Pervious ☐ Eroded ☐ Drain to road ☐ Too variable

Evidence of rooftop or driveway runoff to road/drainage network?: ☐ No ☐ Yes, describe:

Evidence of residential encroachment on riparian/wetland buffer? ☐ No ☒ Yes, describe: Gut that flows past Milgies runs N to S through neighborhood

Evidence of Residential Pollution?

☐ Limited ☐ Likely ☐ Observed for **sediment loading**
☐ Limited ☐ Likely ☒ Observed for **oil/grease**
☐ Limited ☐ Likely ☒ Observed for **trash and yard waste**
☐ Limited ☐ Likely ☐ Observed for **nutrient loading**
☐ Limited ☐ Likely ☒ Observed for **bacteria** ⇒ lot of dogs/chickens
☐ Limited ☐ Likely ☐ Observed for **other:**

Severity: ☐ Low ☐ Medium ☐ High

Describe source:

⇒ Junk yard

NEXT STEPS

☒ SITE AERIAL INCLUDED

PROPOSED RESTORATION ACTIVITIES

Neighborhood-wide Actions:

- ☐ On-site retrofit potential individual lots?
- ☒ Street ROW retrofit
- ☐ Pond retrofit
- ☐ Parking Lot retrofit
- ☐ Better lawn/landscaping practices?
- ☒ Household hazardous waste
- ☐ Septic improvements
- ☒ Other action(s): Junk yard clean-up

Narrative description:

Education — Pet wastes

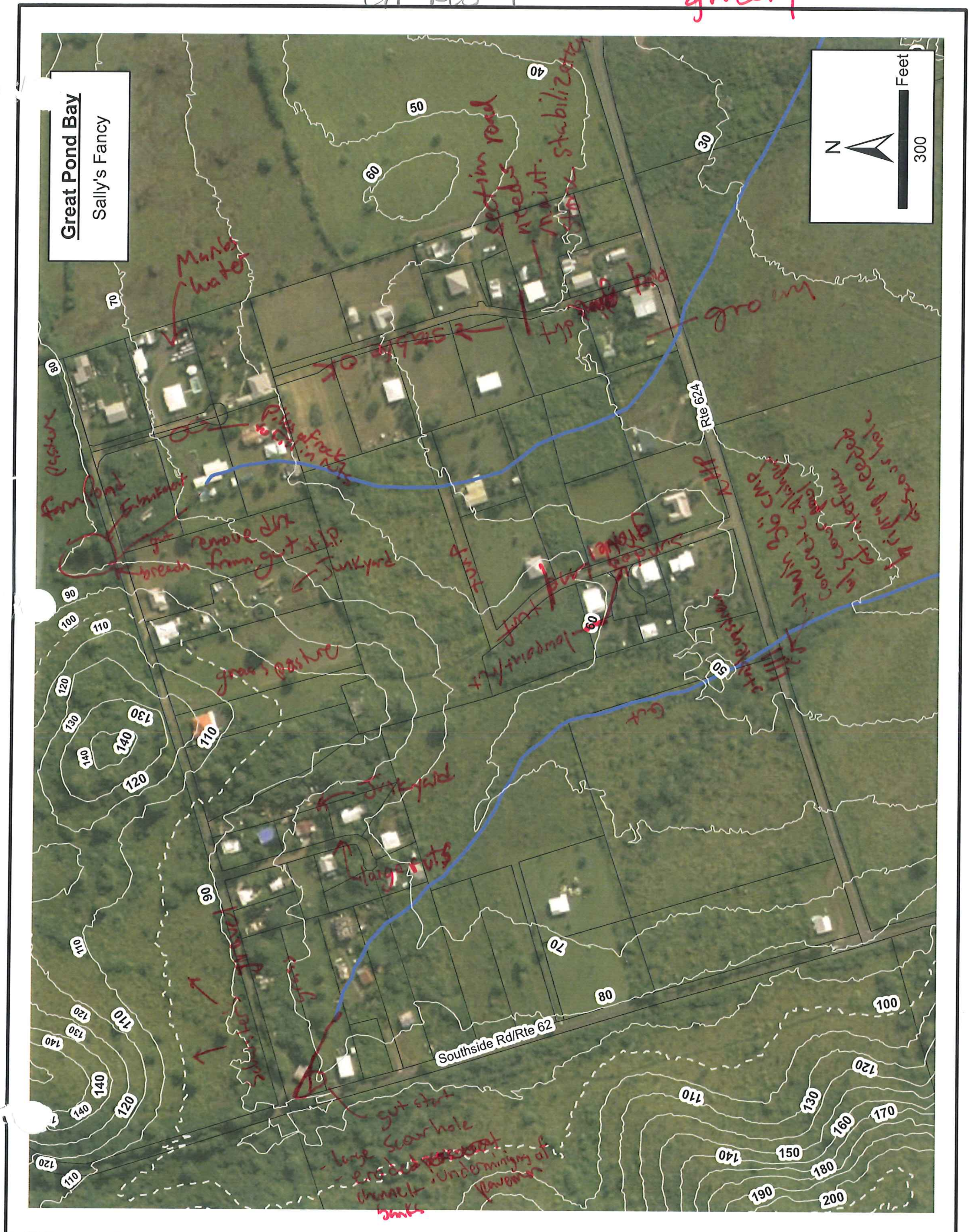
Sketch

See aerial

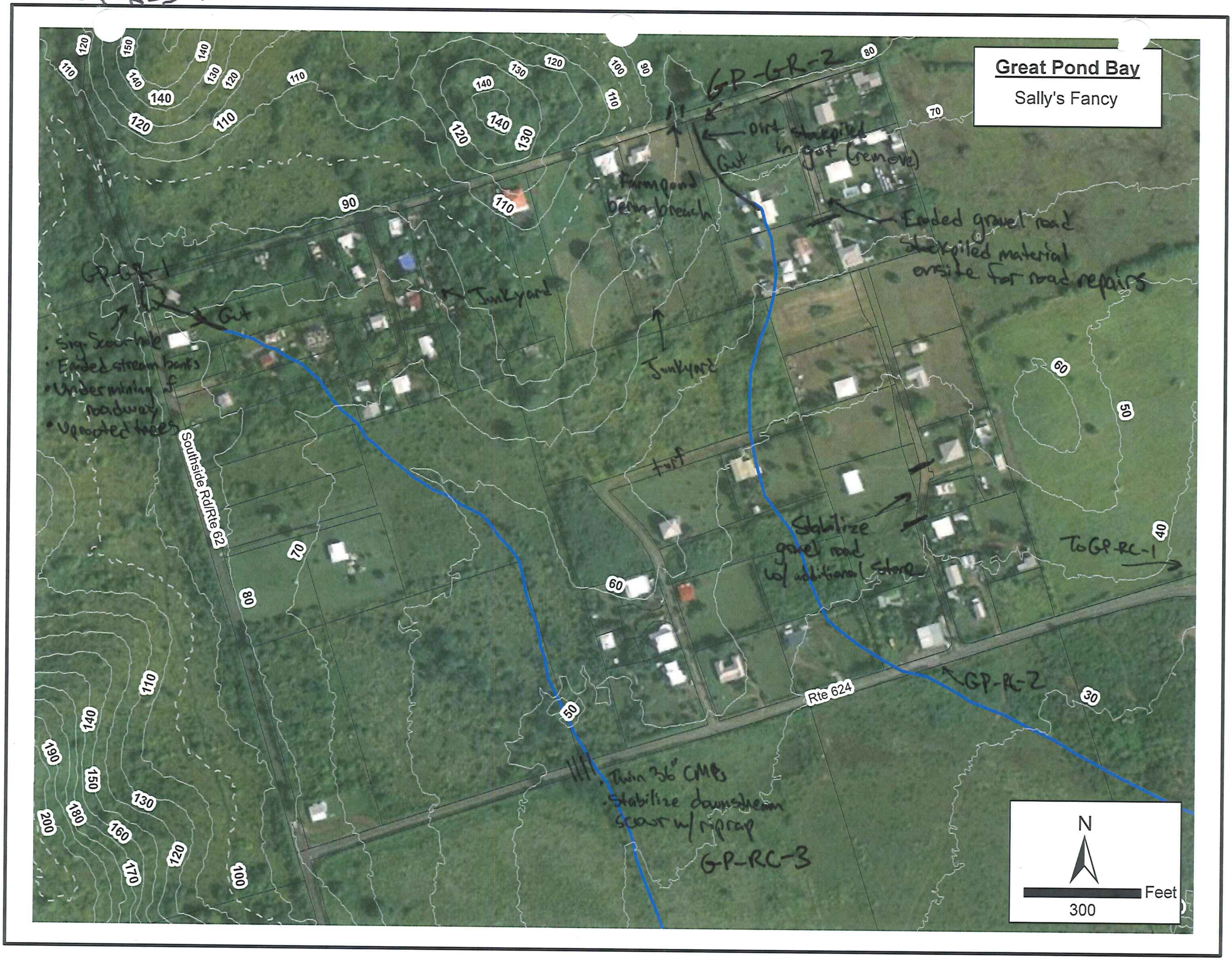
Site ID GP-RES-1

GP-RES-1

grocery



GP-RES-1



Great Pond Bay
Sally's Fancy
GP-GR-2
Dirt stockpiled in gut (remove)
Gut
Farmpond berm breach
Eroded gravel road
Stockpiled material onsite for road repairs
GP-GR-1
Gut
Junkyard
Junkyard
· Sig. Scour hole
· Eroded stream banks
· Undermining of roadway
· Uprooted trees
Southside Rd/Rte 62
Stabilize gravel road w/ additional stone
To GP-RC-1
GP-RC-2
Rte 624
Twin 36" CMPs
· Stabilize downstream scour w/ riprap
GP-RC-3
N
300
Feet

STX EE WATERSHEDS **RESIDENTIAL**

Site Name/ID: GP-RES-2 / Union & Mt Washington **Watershed:** Great Pond Bay

Date: 1/26/2011 **Assessed by:** RAC & ACS

EXISTING CONDITIONS

Homeowners Association? ☐ No ☐ Yes ☒ Unknown If yes, name and contact information:

Main Road Names: Sunset, Corny, Tamarind, David Oliver, Seaview, Blue Dolphin, Acacia

Approximate Neighborhood Area (acres) 115 acres # of lots 302 (# or % undeveloped <25%)

☐ Single Family Attached (Duplexes, Row Homes) <⅛ ⅛ ¼ ⅓ ⅓ acre ☐ Multifamily (Apts., Condos)

☒ Single Family Detached <¼ (¼) ½ 1 >1 acre ☐ Other

Index of Infill, Redevelopment, and Remodeling ☐ No Evidence ☐ <5% of existing units ☐ 5-10% ☐ >10%

Waste water Management? ☐ Public sewer ☒ On-site septic ☐ Small package plant

Problems observed with septic systems? ☒ No ☐ Yes (describe):

AVERAGE ROAD CONDITION

Pavement: Type ☐ All Paved ☒ mixed, mostly paved ☐ mixed, mostly unpaved ☐ all unpaved — one section of unpaved road on Kenjo

Condition ☐ Good/mostly good (new, few areas requiring regrading or maintenance) ☒ Some road sections need attention (minor erosion, pavement repair needed, limited) ☐ Significant maintenance issues (most of road network in bad shape) — Acacia in disrepair

Drainage: Type ☐ Curb/gutter ☐ Mixed, mostly curbed ☐ Mixed, mostly open section ☒ Open drainage

Drain Inlets/Catch basins: ☒ None ☐ Clean ☐ Blocked ☐ Other:

Waterbars/dips/crossdrains: ☒ None ☐ Functioning ☐ Need maintenance ☐ Other:

Ditches: ☒ None ☐ Shallow ☐ Well-defined ☐ Stable ☐ Eroded ☐ Full of thick vegetation ☐ Other:

Discharge locations: ☐ Stable ☐ Some erosion ☐ Eroded ☐ Other:

→ Some swales/ditches on roadside

Existing Stormwater BMPs on site? ☐ Unknown ☒ No ☐ Yes, describe:

Average Lot Cover: 5 %bare 70 % turf ____ %landscape(include trees) 25 % rooftop ____ %driveway

Average Driveway: ☐ Impervious ☒ Pervious ☐ Eroded ☐ Drain to road ☒ Too variable

Evidence of rooftop or driveway runoff to road/drainage network?: ☐ No ☐ Yes, describe:

Evidence of residential encroachment on riparian/wetland buffer? ☒ No ☐ Yes, describe:

Evidence of Residential Pollution? NONE

☐ Limited ☐ Likely ☐ Observed for **sediment loading**

☐ Limited ☐ Likely ☐ Observed for **oil/grease**

☐ Limited ☐ Likely ☐ Observed for **trash and yard waste**

☐ Limited ☐ Likely ☐ Observed for **nutrient loading**

☐ Limited ☐ Likely ☐ Observed for **bacteria**

☐ Limited ☐ Likely ☐ Observed for **other:**

Severity: ☐ Low ☐ Medium ☐ High

Describe source:

NEXT STEPS

☐ SITE AERIAL INCLUDED

PROPOSED RESTORATION ACTIVITIES

Neighborhood-wide Actions:

- ☐ On-site retrofit potential individual lots?
- ☐ Street ROW retrofit ☐ Pond retrofit
- ☐ Parking Lot retrofit
- ☐ Better lawn/landscaping practices?
- ☐ Household hazardous waste
- ☐ Septic improvements
- ☐ Other action(s):

Narrative description:

Sketch

STX EE WATERSHEDS

ROAD / **GUT RESTORATION**

Site Name/ID: GP-GR-1/Southside Rd.
Date: 1/26/2011

Watershed: Great Pond
Assessed by: RAC, KH, ACS

EXISTING CONDITION

LAND OWNER CONTACT INFO: UNKNOWN - Residential Parcel on Solitude Road
Schuster owns nearby parcel treehouse on gut

LAND OWNERSHIP: ☐ Private ☐ Public ☐ Unknown

LAND COVER: ☐ Forest ☐ Field/Ag ☐ Developed:

LIVESTOCK ON SITE: ☐ Yes ☐ No ☐ Unknown #:_____ **LIVESTOCK HAVE CURRENT GUT ACCESS:** ☐ Yes ☐ No

DRAINS TO DOWNSTREAM IMPOUNDMENT OR POND: ☐ Yes ☐ No ☒ Unknown

☒ **EROSION**

☐ Channelized

TYPE:
- ☐ Downcutting
- ☐ Widening
- ☒ Headcutting
- ☒ Bed scour
- ☒ Bank erosion

BANK OF CONCERN: ☐ LT ☐ RT ☒ Both *(looking downstream)*

LOCATION: ☐ Meander bend ☐ Straight section ☐ Steep slope/valley wall ☐ Other:

DIMENSIONS:

Length *(if no GPS)*	LT_____ft	and/or RT_____ft	Bottom width	_____ft
Bank Ht	LT_____ft	and/or RT_____ft	Top width	_____ft
Bank Angle	LT_____°	and/or RT_____°	Wetted Width	_____ft

THREAT TO PROPERTY/INFRASTRUCTURE: ☐ No ☐ Yes (Describe):

RIPARIAN AREA

EXISTING RIPARIAN WIDTH (NO STRUCTURES): ☐ ≤25 ft ☐ 25 - 50 ft ☐ 50-75ft ☐ 75-100ft ☐ >100ft

DOMINANT COVER

	Paved	Bare ground	Turf/lawn	Tall grass	Shrub/scrub	Trees	Other:
LT	☐	☐	☒	☐	☐	☒	☐:
RT	☒	☐	☒	☐	☐	☒	☐:

DESCRIBE:

WETLANDS PRESENT: ☐ Yes ☒ No ☐ Unknown

DESCRIBE EXISTING PROBLEM

Poor road drainage management bad downstream scour hole & headcutting. Road drainage flows through yard and bypasses roadside curb/swale. headcutting in yard

EROSION SEVERITY	Active downcutting; tall banks on both sides of the stream eroding at a fast rate; erosion contributing significant amount of sediment to stream; obvious threat to property or infrastructure.		Pat downcutting evident, active stream widening, banks actively eroding at a moderate rate; no threat to property or infrastructure	Grade and width stable; isolated areas of bank failure/erosion; likely caused by a pipe outfall, local scour, impaired riparian vegetation or adjacent use.
	5	(4)	3	2 1
ACCESS:	**Good access:** Open area in public ownership, sufficient room to stockpile materials, easy stream channel access for heavy equipment using existing roads or trails.		**Fair access**: Forested or developed area adjacent to stream. Access requires tree removal or impact to landscaped areas. Stockpile areas small or distant from stream.	**Difficult access.** Must cross wetland, steep slope or other sensitive areas to access stream. Minimal stockpile areas available and/or located a great distance from stream section. Specialized heavy equipment required.
	(5)	4	3	2 1

NEXT STEPS:

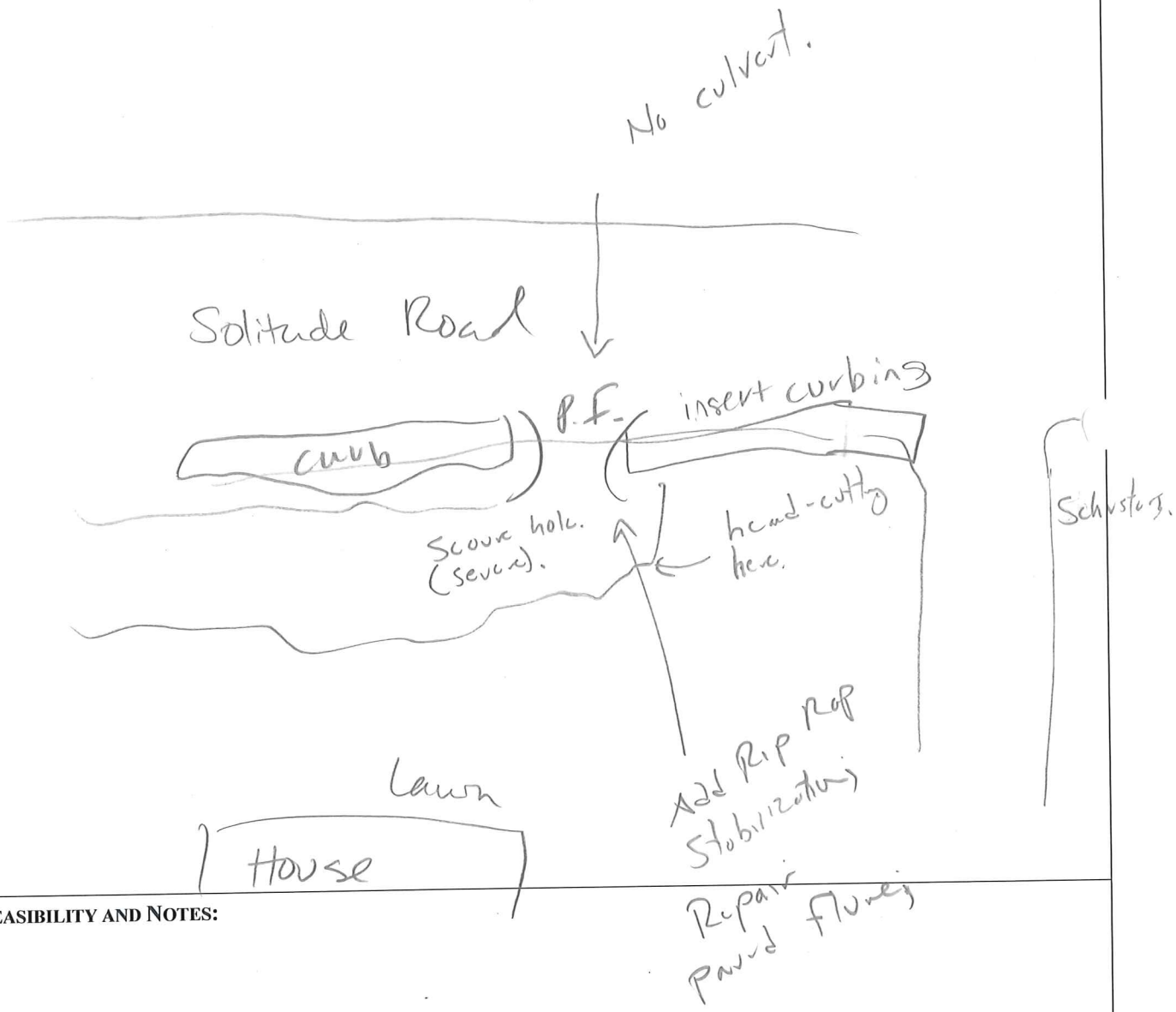
☐ SITE AERIAL INCLUDED

RESTORATION CONCEPT:

NARRATIVE

insert conc curb & paved flume to redirect water & stabilize banks

SKETCH:



INITIAL FEASIBILITY AND NOTES:


Great Pond Bay
Union & Mount Washington
Zoomed in Parcels 3
Tamarind Dr
Corry Dr
Same
Same
Same
24
26
28
30
32
34
36
38
40
42
44
46
48
N
Feet
50

SP-185-7