

Stone armored ditch:
This section of road has an eroded, steep ditch section on the uphill side. The ditch needs to be re-shaped and armored.
Use Detail E - Stone Swale with Type I stone.
Approximate Length: 1,100'
Approximate Stone Volume: 115 CY Type 1 | 30 CY 2-4" crushed stone

<p>New Culverts:</p> <p>Two existing culverts are in poor condition and need to be replaced with minimum 18" structures. Each culvert inlet/outlet should be stabilized as per Details J and K.</p> <p>Additionally, road crossing culverts should be installed where indicated. Inlets/outlet should be stabilized as per Details J and K. The outlets for each of these should include a Rock Apron as per Better Roads standards.</p> <p>New 18" culvert - total length: ~145'</p> <p>Type I Stone for inlet/outlet stabilization: ~14 CY</p> <p>Type I Stone for Rock Aprons: ~16 CY</p>

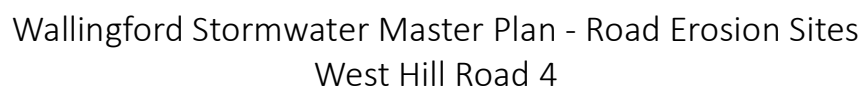
This section of road needs the the built 'grader berm' removed. This will be somewhat difficult here given the presence of a wooden fence. Alternatively, if berm removal is deemed too difficult, small stone-armored turnouts could be created to create runoff relief pathways off the road surface.
Approximate Length to Remove Berm: 200'

Road needs to be re-crowned. During rain event, there was evidence of runoff flowing in tire tracks. Refer to Detail L.

Option:
Install Type I Stone Check Dams in ditch line. Refer to Detail H - Stone Check Dam. Each Stone Check Dam requires approximately 0.5 CY Type 1 Stone.

1799 W. Hill Road

Contour Interval: 2'



Site is downhill of
2048 West Hill
Road

[illegible]

Stone armored ditch:

This section of road has an eroded, steep ditch section on the uphill side. The ditch needs to be re-shaped and armored. Use Detail E - Stone Swale with Type I stone.

Approximate Length: 400'

Approximate Stone Volume: 50 CY Type 1 | 14 CY 2-4" crushed stone

New Culvert:

No existing culverts were found on this section of road. One road crossing culvert could be installed to alleviate runoff to the tributary. The inlet/outlet should be stabilized as per Details J and K. The outlet should include a Rock Apron as per Better Roads standards.

New 18" culvert - total length: ~35'

Type 1 Stone for inlet/outlet stabilization: ~4 CY

Type I Stone for Rock Aprons: ~5.5 CY

Grader Berm Removal:

This section of road needs the the built 'grader berm' removed. Runoff is not sheet-flowing off the downhill side of the road.

Approximate Length to Remove Berm: 150'

General:

Road needs to be re-crowned. During rain event, there was evidence of runoff flowing in tire tracks. Refer to Detail L.

Option:

Install Type I Stone Check Dams in ditch line. Refer to Detail H - Stone Check Dam. Each Stone Check Dam requires approximately 0.5 CY Type 1 Stone.

Install new 18" cross
culvert to Type I Rock
Apron here.

Optional: Install Stone
Chute and Spreader
(Detail G)

Tributary

N

Contour Interval: 2'

Wallingford Stormwater Master Plan - Road Erosion Sites



Stone armored ditch:

This section of road has an eroded, steep ditch section on the uphill side. The ditch needs to be re-shaped and armored. Use Detail E - Stone Swale with Type I stone.

Approximate Length: 450'

Approximate Stone Volume: 60 CY Type 1 | 14 CY 2-4" crushed stone

New Culvert:

One existing culvert was found on this section of road. Its condition could not be ascertained as there was considerable sediment blocking the inlet and outlet. It may need to be replaced. Two road crossing culverts could be installed to alleviate runoff to the tributary. The inlet/outlet should be stabilized as per Details J and K. The outlets should include a Rock Apron as per Better Roads standards.

New 18" culvert - total length: ~90'

Type 1 Stone for inlet/outlet stabilization: ~14 CY

Type I Stone for Rock Aprons: ~14 CY

Grader Berm Removal:

This section of road needs the the built 'grader berm' removed. Runoff is not sheet-flowing off the downhill side of the road.

Approximate Length to Remove Berm: 320'

General:

Road needs to be re-crowned. During rain event, there was evidence of runoff flowing in tire tracks. Refer to Detail L.

Option:

Install Type I Stone Check Dams in ditch line. Refer to Detail H - Stone Check Dam. Each Stone Check Dam requires approximately 0.5 CY Type 1 Stone.

1348 West Hill Road

Install new 18" cross culvert to Type I Rock Apron here.

Install new 18" cross
culvert to Type I Rock
Apron here.
Driveway culvert may
need replacement.

Install new 18" cross culvert to Type I Rock Apron here.

N

Contour Interval: 2'



Wallingford Stormwater Master Plan - Road Erosion Sites

West Hill Road 3

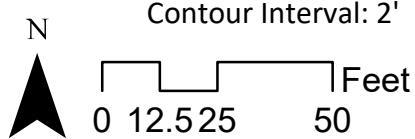


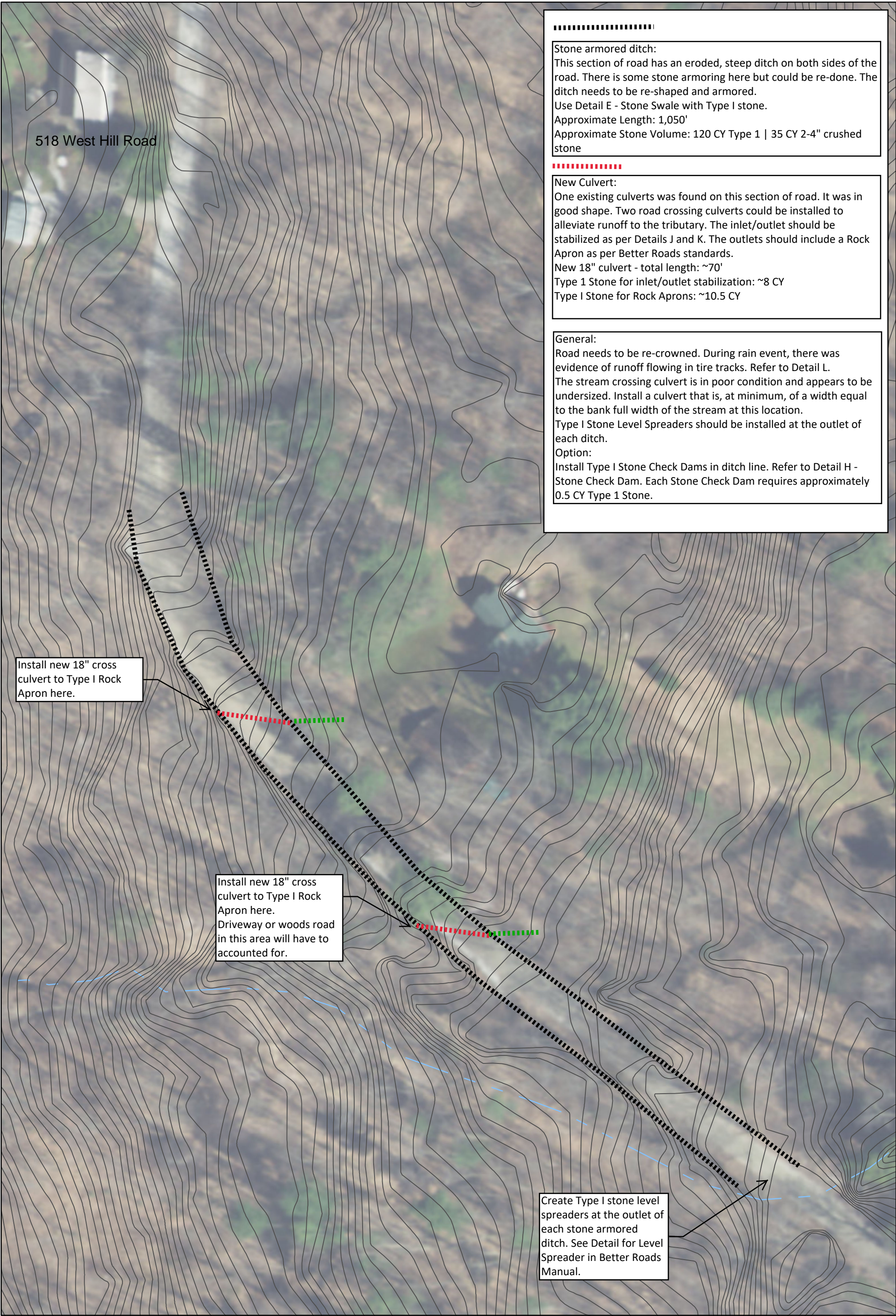
Stone armored ditch:
This section of road has an eroded, steep ditch section on the uphill side. The ditch needs to be re-shaped and armored.
Use Detail E - Stone Swale with Type I stone.
Approximate Length: 375'
Approximate Stone Volume: 45 CY Type 1 | 14 CY 2-4" crushed stone

General:
Option:
Install Type I Stone Check Dams in ditch line. Refer to Detail H - Stone Check Dam. Each Stone Check Dam requires approximately 0.5 CY Type 1 Stone.

Hounds Hill Road

Install new 18" cross
culvert to Type I Rock
Apron here.





Stone armored ditch:
This section of road has an eroded, steep ditch on both sides of the road. There is some stone armoring here but could be re-done. The ditch needs to be re-shaped and armored.
Use Detail E - Stone Swale with Type I stone.
Approximate Length: 1,050'
Approximate Stone Volume: 120 CY Type 1 | 35 CY 2-4" crushed stone

New Culvert:
One existing culverts was found on this section of road. It was in good shape. Two road crossing culverts could be installed to alleviate runoff to the tributary. The inlet/outlet should be stabilized as per Details J and K. The outlets should include a Rock Apron as per Better Roads standards.
New 18" culvert - total length: ~70'
Type 1 Stone for inlet/outlet stabilization: ~8 CY
Type I Stone for Rock Aprons: ~10.5 CY

General:
Road needs to be re-crowned. During rain event, there was evidence of runoff flowing in tire tracks. Refer to Detail L.
The stream crossing culvert is in poor condition and appears to be undersized. Install a culvert that is, at minimum, of a width equal to the bank full width of the stream at this location.
Type I Stone Level Spreaders should be installed at the outlet of each ditch.
Option:
Install Type I Stone Check Dams in ditch line. Refer to Detail H - Stone Check Dam. Each Stone Check Dam requires approximately 0.5 CY Type 1 Stone.

Install new 18" cross culvert to Type I Rock Apron here.

Install new 18" cross culvert to Type I Rock Apron here.
Driveway or woods road in this area will have to accounted for.

Create Type I stone level spreaders at the outlet of each stone armored ditch. See Detail for Level Spreader in Better Roads Manual.