

APPENDIX C
SUBDIVISION
SCOPING REPORT

Fashion Manor

Description: Fashion Manor has a hot mix asphalt surface, with good drainage.

Township: Perry
Rating: 8 – Very good
Length: .58 miles
Width: 20 feet
Area: 6,805 SYS

Pavement: Fashion Manor is a chip and seal subdivision on a good base, only routine maintenance cost are projected at this time.

Pavement cost: \$0.00

Drainage: The drainage system is in need of some culvert replacement, ditch cleaning, and jet/vac work. Full scope of drainage in attachment.

Drainage cost: \$7,476.00

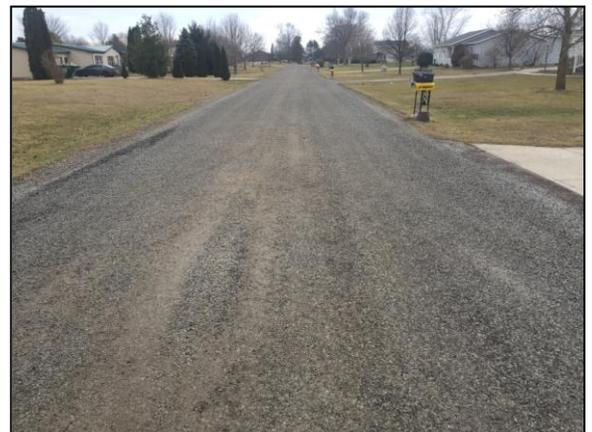
Total Cost +10% Contingency: \$8,223.60



Ariel



Street view 1 - -2-2-16



Street view 2 - 2-2-16

Frick's Addition

Description: Frick's Addition is a hot mix asphalt base that has a good shape.

Township: Sparta
Rating: 8 – Very good
Length: 0.34 miles
Width: 25 feet
Area: 4,987 SYS

Pavement: This pavement was crack sealed in 2015, no additional maintance cost are anticipated this year.

Pavement cost: \$0.00

Drainage: The berm and ditch are in good shape at this time only routine maintance is expected this year. Full scope of drainage in attachment.

Drainage cost: \$0.00

Total cost + 10% Contingency: \$0.00



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Street view 1- 2-4-16



Street view 2- 2-4-16

Cobblestone

Description: Cobblestone subdivision is built with curb and gutter drainage. The pavement is hot mix asphalt that was crack sealed in 2015. The drainage and surface conditions are in good condition with only routine maintenance required at this time.

Township: Orange

Rating: 8 – Very good

Length: 1.35 miles

Width: 24 feet

Area: 19,000 SYS

Pavement: This pavement was crack sealed in 2015, no maintenance cost are anticipated at this time.

Pavement cost: \$0.00

Drainage: With the curb and gutter drainage in good condition only routine maintenance of 8 hours is called for this year. Full scope of drainage in attachment.

Drainage cost: \$0.00

Total cost + 10% Contingency: \$0.00



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Street view 1 - 2-17-16



Street View 2 - 2-17-16

Wood Way

Description: Wood Way has a concrete surface, with a curb and gutter drainage system.

Township: Sparta

Rating: 8 – Very good

Length: 0.2 miles

Width: 27 feet

Area: 19,000 SYS

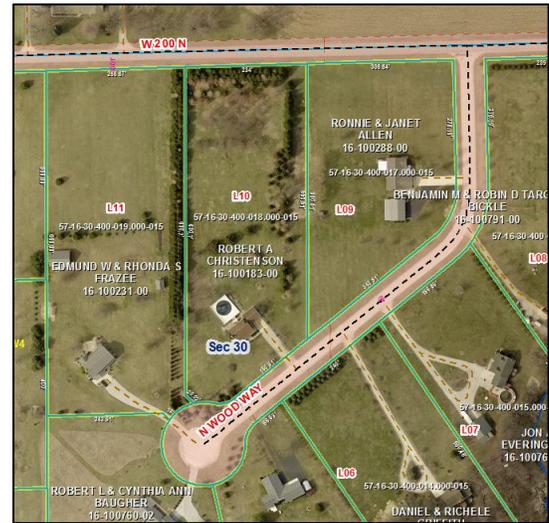
Pavement: The concrete surface is in good condition and was crack sealed in 2015. Only routine maintenance is required at this time.

Pavement cost: \$0.00

Drainage: The curb and gutter is in good condition and only routine maintenance at this time.

Drainage cost: \$0.00

Total cost: \$0.00



Ariel



Street view 1 - 2-3-16



Street view 2 – 2-4-16

County road 15 West

Description: CR 15 West has a chip and seal surface. This roadway is currently in good condition and in need of only routine maintenance.

Township: Elkhart
Rating: 8 – Very good
Length: 0.72 miles
Width: 20 feet
Area: 8,448 SYS

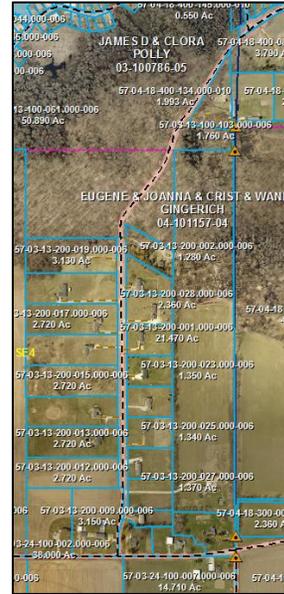
Pavement: This pavement was chip and sealed in 2015, and should only need routine maintenance presently.

Pavement Cost: \$0.00

Drainage: The berm was pulled in 2015, and only routine maintenance is needed for now.

Drainage cost: \$0.00

Total cost: \$0.00



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15 West 1 - 2-4-16

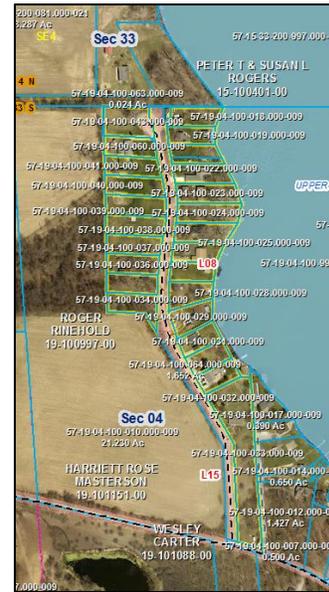


15 West 2 - 2-4-16

Sunset Shores

Description: Sunset Shores is a chip and seal addition located on 50 S. It was chip and sealed in 2015 and is in good condition.

Township: Noble
Rating: 8 – Very good
Length: 0.33 miles
Width: 20 feet
Area: 3,872 SYS



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Pavement: In 2015 a single chip and seal was applied and in the future will need a double micro seal.

Pavement cost: \$15,488.00

Drainage: There is a need to do some culvert and ditch work. Full scope of drainage in attachment.

Drainage cost: \$2,068.00

Total cost +10% Contingency: \$19,311.60



Street view 1 - 2-19-16



Street view 2 - 2-19-16

High Lake

Description: High Lake is a lake addition built on a hot mix asphalt base with a chip and seal maintenance application.

Township: Noble
Rating: 8 – Very good
Length: 1.1 miles
Width: 20 feet
Area: 12,906 SYS



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Pavement: High Lake is in very good condition it received a chip and seal treatment in 2015. Only routine maintenance is needed at this time.

Pavement cost: \$0.00

Drainage: The drainage system needs several drive pipes and a few cross pipes to get this addition drained. Full scope of drainage in attachment.

Drainage cost: \$9,554.00

Total cost +10% Contingency: \$10,509.00



Street view 1 - 2-19-16



Street view 2 - 2-19-16

Red Bud Lane

Description: Red Bud Lane has a hot mix asphalt base with a chip and seal overlay. In 2015 it received a single chip and seal.

Township: Noble
Rating: 8 – Very good
Length: 0.35 miles
Width: 20 feet
Area: 4,106 SYS

Pavement: This pavement was chip and sealed in 2015, and in the future could need a single micro seal.

Pavement cost: \$12,318.00

Drainage: The drainage is in good condition with some minor work needed to be done. Full scope of drainage in attachment.

Drainage cost: \$261.00

Total cost +10% Contingency: \$13,836.90



Ariel



Street view 1 - 2-19-16



Street view 2 - 2-19-16

Southwood Shores

Description: Southwood Shores is a hot mix asphalt surface that was crack sealed in 2015. This is in very good condition.

Township: Noble
Rating: 8 - Very good
Length: 0.43 miles
Width: 22 feet
Area: 5,549 SYS

Pavement: The hot mix surface is in very good condition after being crack sealed in 2015. Only routine maintenance is needed for now

Pavement cost: \$0.00

Drainage: The drainage structure is in very good shape at this time, so only routine maintenance is needed.

Drainage cost: \$0.00

Total cost: \$0.00



Ariel



Street view 1 - 2-4-16



Street view 2 - 2-4-16

Oak Shore

Description: Oak shore has a chip and seal surface. In 2015 it received a double chip and seal.

Township: Orange
Rating: 8 – Very good
Length: 1.74 miles
Width: 20 feet
Area: 20,416 SYS

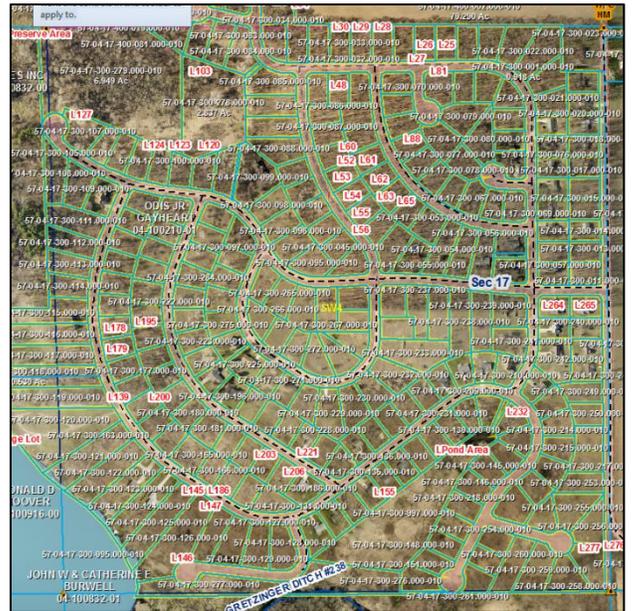
Pavement: This chip and seal surface received a double chip and seal in 2015. In the future a double micro seal will be needed.

Pavement cost: \$81,664.00

Drainage: There are several cross pipes and drive pipes that need to be replaced. This will help to keep this surface in good condition. Full scope of drainage in attachment.

Drainage cost: \$11,784.00

Total cost +10% Contingency: \$102,792.00



Ariel



Street view 1- 2-2-16



Street view 2 - 2-2-16

Steinbarger Lake

Description: Steinbarger Lake has a hot mix asphalt base, with a chip and seal overlay.

Township: Orange
Rating: 8 – Very good
Length: 1.1 miles
Width: 18 feet
Area: 11,616 SYS

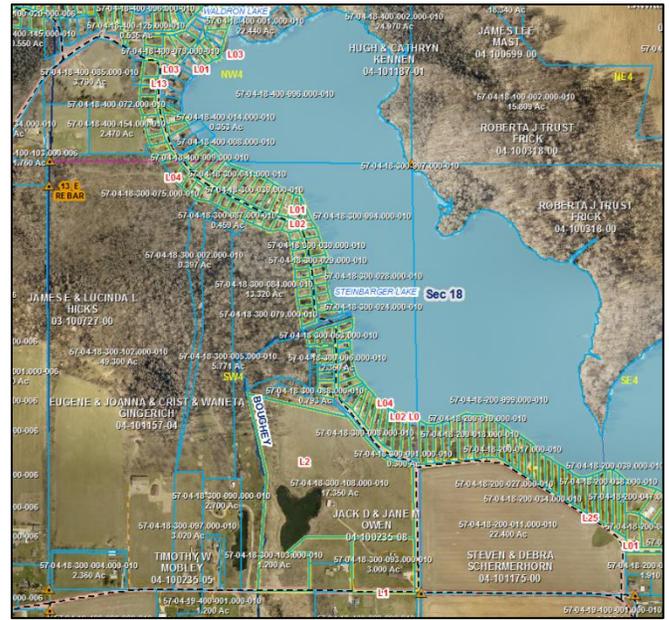
Pavement: Steinbarger Lake has a hot mix asphalt base that received a single chip and seal in 2015. The surface is in very good condition and should only need routine maintenance for now.

Pavement cost: \$0.00

Drainage: The drainage at Steinbarger Lake needs major work, there are several drive pipes and cross pipes that need to be replaced. Full scope of drainage in attachment.

Drainage cost: \$28,230.00

Total cost +10% Contingency: \$31,053.00



Ariel



Street view 1 - 2-23-16



Street view 2 - 2-23-16

Brimfield

Description: Brimfield is an older town with a combination of hot mix asphalt and chip and seal. Brimfield will require extensive drainage and pavement work.

Township: Orange
Rating: 4 – Fair – poor
Length: 2.33 miles
Width: 20 feet
Area: 27,338 SYS

Pavement: The pavement in Brimfield is in need of extensive leveling and an overlay. Two inches of asphalt and an Asphalt sealant should bring this up to a very good road.

Pavement cost: \$193,835.00

Drainage: The drainage is also in need of extensive work to the drive pipes and cross pipes and ditches. Full scope of drainage in attachment.

Drainage cost: \$25,548.00

Total cost +10% Contingency: \$241,321.30



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Street view 1 - 1-16-16



Street view 2 - 1-16-16

Skinner Lake Drive

Description: Skinner Lake has an asphalt base that is in good condition. The drainage needs some work to maintain this good road structure.

Township: Jefferson
Rating: 8 – Very good
Length: 1.56 miles
Width: 20 feet
Area: 18,304 SYS

Pavement: The asphalt base is in good condition and was crack sealed in 2015. In the future a single micro seal will be needed.

Pavement cost: \$54,912.00

Drainage: The drainage is in need of some drive pipe, and cross pipe replacement. This should help to keep this high quality road at a very good rating. Full scope of drainage in attachment.

Drainage cost: \$25,220.00

Total cost +10% Contingency: \$88,145.20



Ariel



Street view 1 - 1-16-16



Street view 2 - 1-16-16

Brookside Estates

Description: Brookside Estates has a concrete surface with curb and gutter drainage. The surface is deteriorating and will require some patching and replacement in the most severe areas.

Township: Wayne
Rating: 5 – Fair
Length: 1.74 miles
Width: 26 feet
Area: 26,540 SYS

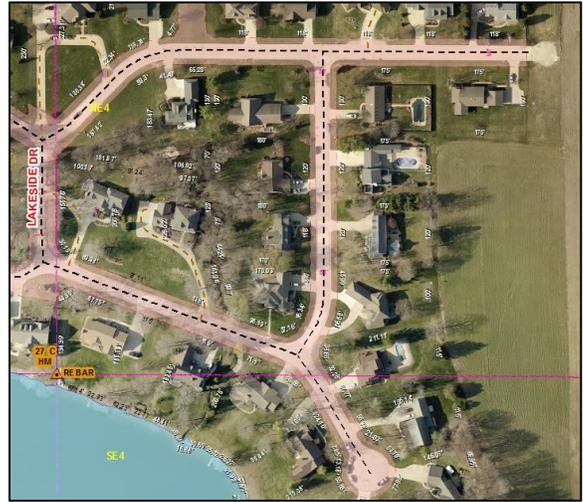
Pavement: The road surface in Brookside Estates is concrete, this makes a good road but when it starts to deteriorate, the options are limited to repair. Patching and an overlay of one and half inches of surface asphalt is needed.

Pavement cost: \$96,998.00

Drainage: With the curb and gutter drainage in good condition only routine maintenance is needed at this time.

Drainage cost: \$0.00

Total cost +10% Contingency: \$106,697.80



Ariel



Street view 1 - 2-23-16



Street view 2 - 2-23-16

Noble Hawk

Description: Noble Hawk has a hot mix asphalt surface that is in good condition, but the surface and drainage do need more than routine maintenance to sustain this good condition.

Township: Allen
Rating: 6 – Good
Length: 1.12 miles
Width: 22 feet
Area: 14,455 SYS



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Pavement: The surface needs a Double Micro seal.

Pavement cost: \$57,820.00

Drainage: The drainage is in good shape but there is a need to replace and repair some of the cross pipes. Full scope of drainage in attachment.

Drainage cost: \$3,978.00

Total cost +10% Contingency: \$67,977.80



Street view 1 - 2-18-16



Street view 2 - 2-18-16

Town of LaOtto

Description: The Town of LaOtto has an asphalt surface that is in good condition. The surface is in need of some maintenance treatment with some drainage work.

Township: Swan
Rating: 6 – Good
Length: 1.74 miles
Width: 20 feet
Area: 20,416 SYS

Pavement: The asphalt is in need of a surface treatment, an asphalt rejuvenating agent, followed with a crack seal.

Pavement cost: \$28,681.00

Drainage: The drainage is in good condition, but could use some replacement of aging cross pipes. Full scope of drainage in attachment.

Drainage cost: \$15,587.00

Total cost + 10% contingency: \$48,694.80



Ariel



Street view 1 - 2-18-16



Street view 2 - 2-18-16

Country Home Estates

Description: Country Home Estates is a chip and seal addition that is in fair condition. It will need some drainage work and a surface treatment.

Township: Perry
Rating: 5 – Fair
Length: 0.25 miles
Width: 22 feet
Area: 3,226 SYS

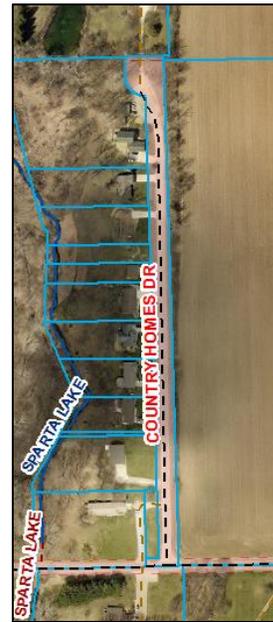
Pavement: This pavement needs a single micro seal to bring it up to a very good condition.

Pavement cost: \$8,800.00

Drainage: The drainage system is in need of replacement of a few cross pipes. Full scope of drainage in attachment.

Drainage cost: \$1,764.00

Total cost + 10% Contingency: \$11,620.40



Ariel



Street view 1 - 2-2-16



Street view 2 - 2-2-16

Shorewood Oaks “Circle Drive”

Description: Circle Drive is a chip and seal subdivision. It is beginning to deteriorate quickly in its present condition will require extensive drainage and surface repair.

Township: Sparta
Rating: 5 – Fair
Length: 0.37 miles
Width: 20 feet
Area: 4,341 SYS

Pavement: This pavement is in need of an asphalt overlay. A double micro seal will be needed.

Pavement cost: \$17,364.00

Drainage: The drainage is in need of ditch and berming, and culvert replacement. Several drive pipes and a cross pipe are needed at this time. Full scope of drainage in attachment.

Drainage cost: \$5,310.00

Total cost + 10% Contingency: \$24,941.40



Ariel



Street view 1 - 2-4-16



Street view 2 - 2-4-16

Knapp Lake Southside

Description: The Southside of Knapp Lake is in fair condition, and will require some extensive drainage work with an asphalt overlay.

Township: Washington

Rating: 4 – Fair-poor

Length: 2.68 miles

Width: 20 feet

Area: 31,504 SYS

Pavement: The pavement is in a fair to poor condition. The best solution is a 2 inch asphalt overlay with a sealant.

Pavement cost: \$199,658.00

Drainage: The drainage is in fair condition with a need for some drive and cross pipes. Full scope drainage in the attachment.

Drainage cost: \$21,822.00

Total cost +10% Contingency: \$243,628.00



Ariel



Street view 1 - 2-23-16



Street view 2 - 2-23-16

Smalley Lake

Description: Smalley Lake has a cold mix surface that received a single chip and seal in 2014. It should only need routine maintenance for now.

Township: Washington

Rating: 5 – Fair

Length: 0.57 miles

Width: 15 feet

Area: 5,077 SYS

Pavement: With the cold mat as a base, a single micro seal will help this surface.

Pavement cost: \$20,308.00

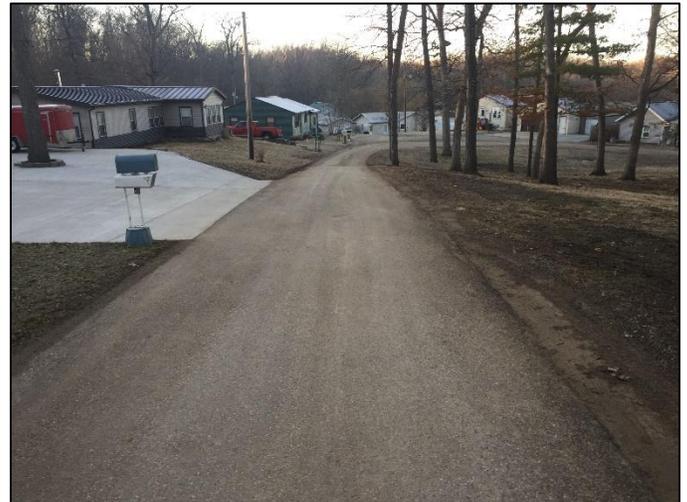
Drainage: The drainage for Smalley Lake is in adequate shape at this time.

Drainage cost: \$0.00

Total cost +10% Contingency: \$20,308.00



Ariel



Street view 1 - 2-23-16



Street view 2 - 2-23-16

Eagle Island

Description: Eagle Island has a chip and seal surface that is in a poor condition. It will require extensive drainage work and an asphalt overlay.

Township: Elkhart
Rating: 4 – Fair – poor
Length: 0.78 miles
Width: 18 feet
Area: 8,236 SYS

Pavement: The surface needs a good base, with two inches of asphalt binder and an asphalt seal, this should bring a very good surface.

Pavement cost: \$64,889.00

Drainage: The drainage at Eagle Island is in need of ditch and shoulder work along with drive and cross pipe replacement. Full scope of drainage in attachment.

Drainage cost: \$11,532.00

Total cost +10% Contingency: \$84,063.10



Ariel



Street view 1 - 2-23-16



Street view 2 - 2-23-16

Cosperville

Description: Cosperville is a chip and seal addition. It is in need of some drainage work, patching, and a surface treatment.

Township: Elkhart

Rating: 5 – Fair

Length: 0.38 miles

Width: 20 feet

Area: 4,458

Pavement: The surface in Cosperville needs a double micro seal to stop the water penetration.

Pavement cost: \$17,832.00

Drainage: The drainage is in need of several drive and cross pipes. Full scope drainage in attachment.

Drainage cost: \$7,243.00

Total cost +10% Contingency: \$27,582.50



Ariel



Street view 1 - 2-23-16



Street view 2 - 2-23-16

Wawaka

Description: Wawaka is a combination of old chip and seal, and hot mix asphalt. The old chip and seal is in need of drainage work and an overlay. The asphalt mat is in good shape with only routine maintenance needs.

Township: Elkhart

Rating: 5 – Fair

Length: 1.91 miles

Width: 20 feet

Area: 22,410 SYS



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Pavement: The old chip and seal needs an asphalt overlay with an asphalt sealant. The asphalt mat is in need of a slurry seal

Pavement cost: \$97,640.00

Drainage: Wawaka is in need of several drive and cross pipes, along with some ditch and berm work. Full scope of drainage in attachment.

Drainage cost: \$18,569.00

Total cost +10% Contingency: \$127,829.90



Street view 1 - 1-16-16



Street view 2 - 1-16-16

Finlandia

Description: Finlandia is in fair condition and in need of some drainage work, leveling, and a surface treatment.

Township: York
Rating: 5 – Fair
Length: 0.77 miles
Width: 20 feet
Area: 9,034 SYS

Pavement: The pavement shape and base are good, the surface needs a double micro seal to stop the deterioration.

Pavement cost: \$36,136.00

Drainage: A few hours of ditch and berm work, with some drive and cross pipe replacement are needs to maintain this drainage system. Full scope of drainage in attachment.

Drainage cost: \$6,044.00

Total cost +10% Contingency: \$46,398.00



Ariel



Street view 1 - 2-23-16



Street view 2 - 2-23-16

Oakwood Drive “25 North”

Description: Oakwood Drive has a chip and seal surface in fair condition. It is in need of culvert replacement and a surface treatment.

Township: York

Rating: 5 – Fair

Length: 0.67 miles

Width: 20 feet

Area: 7,861 SYS

Pavement: This pavement is in need of some patching and a double micro seal.

Pavement cost: \$31,444.00

Drainage: The drainage at Oakwood Drive needs a small amount of ditch and berm work, with some drive and cross pipe replacement. Full scope of drainage in attachment.

Drainage cost: \$8,049.00

Total cost +10% Contingency: \$43,442.30



Ariel



Street view 1 - 4-1-16



Street view 2 - 4-1-16

Port Mitchell

Description: Port Mitchell is a chip and seal addition that is on a poorly drained base. It will need extensive drainage work, deep patching, and an asphalt overlay.

Township: York
Rating: 4 – Fair – poor
Length: 0.61 miles
Width: 16 feet
Area: 5,725 SYS



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Pavement: This pavement is in poor shape and needs a lay of 2” of binder with 1.5 inches of surface asphalt. This will help to have a solid base to work with.

Pavement cost: \$76,958.21

Drainage: The drainage at Port Mitchell need drive and cross pipe replacement, along with tile work to drain the road base. Full scope of drainage in attachment.

Drainage cost: \$11,443.00

Total cost: \$97,241.33



Street view 1 - 2-19-16



Street view 2 - 2-19-16

Town of Wolf Lake

Description: The Town of Wolf Lake is an older subdivision in fair to poor condition. Extensive drainage work, leveling, and a surface overlay are needed.

Township: Noble
Rating: 4 – Fair – poor
Length: 1.44 miles
Width: 20 feet
Area: 16,896 SYS

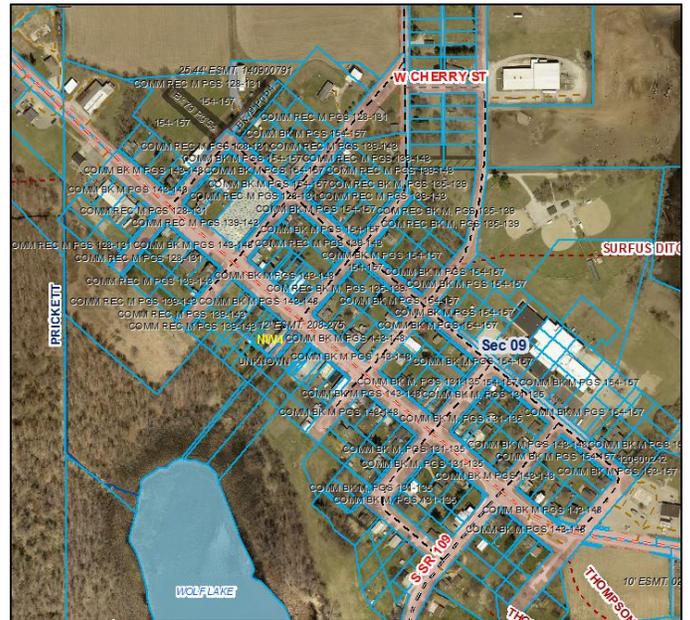
Pavement: The pavement in Wolf Lake varies from thin chip and seal to an older mat surface. All of this is out of shape and needs to be leveled and resurfaced. Two inches of #11 binder asphalt and an asphalt sealant should help this aging surface.

Pavement cost: \$119,795.00

Drainage: The drainage system is in need of several drive and cross pipes, and ditch and berm shaping. Full scope of drainage in attachment.

Drainage cost: 11,687.00

Total cost +10% Contingency: \$144,630.20



Ariel



Street view 1 - 2-19-16



Street view 2 - 2-19-16

Williams Lake

Description: Williams Lake has a chip and seal surface. It is in need some drainage work, soft spots in base repaired, and a surface treatment.

Township: Noble
Rating: 5 – Fair
Length: 0.42 miles
Width: 20 feet
Area: 4,928 SYS



Ariel

Pavement: This pavement needs some soft spots repaired, leveling, and a double micro seal.

Pavement cost: \$19,712.00

Drainage: Williams Lake needs some drive and cross pipe replacement along with some ditch and berm work. Full scope of drainage in attachment.

Drainage cost: \$2,967.00

Total cost +10% Contingency: \$24,946.90



Street view 1 - 2-19-16



Street view 2 - 2-19-16

Muncie Lake

Description: Muncie Lake has a chip and seal surface. It has needs of some drainage work, leveling, and a surface treatment.

Township: Noble
Rating: 5 – Fair
Length: 0.68 miles
Width: 20 feet
Area: 7,978 SYS

Pavement: Muncie Lake has a chip and seal surface in fair condition, this needs some leveling and a double micro seal.

Pavement cost: \$31,912.00

Drainage: The drainage system needs drive and cross pipe replacement. Full scope of drainage in attachment.

Drainage cost: \$2,707.00

Total cost +10% Contingency: \$38,080.90



Ariel



Street view 1 - 2-19-16



Street view 2 - 2-19-16

Silver Lake

Description: Silver Lake is a chip and seal addition. There are some drainage concerns that have related to soft spots on the driving lanes. Proper drainage, some leveling, and a maintenance treatment are needed.

Township: Noble
Rating: 5 – Fair
Length: 0.64 miles
Width: 18 feet
Area: 7,180 SYS

Pavement: This chip and seal surface needs more base, therefore two inches of asphalt binder and an asphalt sealant are recommended.

Pavement cost: \$53,242.00

Drainage: The drainage is in need of drive and cross pipe replacement, some ditch work, and deep patching. Full scope of drainage in attachment.

Drainage cost: \$3,596.00

Total cost +10% Contingency: \$62,521.80



Ariel



Street view 1 - 2-19-16



Street view 2 - 2-19-16

Crooked Lake

Description: Crooked Lake has a chip and seal surface. The south side needs routine drainage work, patching, and a surface treatment. The north side is in need of routine drainage and an overlay.

Township: Noble
Rating: 5 – Fair
Length: 1.13 miles
Width: 18 feet
Area: 11,932

Pavement: This chip and seal surface needs a double micro seal.

Pavement cost: \$47,728.00

Drainage: The drainage at Crooked Lake need some ditch and berm work, drive and cross pipe replacement. Full scope of drainage in attachment.

Drainage cost: \$7,114.00

Total cost +10% Contingency: \$60,326.20



Ariel



Street view 1 - 2-19-16



Street view 2 - 2-19-16

Oak Knoll

Description: Oak Knoll has a chip and seal surface. It does need some updating to the culvert pipe inventory.

Township: Orange
Rating: 8 – Very good
Length: 0.63 miles
Width: 20 feet
Area: 7,394 SYS

Pavement: The surface of Oak Knoll received a double chip and seal in 2015. In the future it will need a double micro seal.

Pavement cost: \$29,576.00

Drainage: The drainage at Oak Knoll needs drive and cross pipe replacement with a few hours of ditch and berm work. Full scope of drainage in attachment.

Drainage cost: \$2,960.00

Total cost +10% Contingency: \$35,789.60



Ariel



Street view 1 - 2-2-16



Street view 2 - 2-2-16

Jones Lake

Description: Jones Lake is a chip and seal addition that is in fair – poor condition. It needs an overlay and culvert replacement.

Township: Orange
Rating: 4 – Fair – poor
Length: 0.41 miles
Width: 19 feet
Area: 4,570 SYS

Pavement: The pavement at Jones Lake needs a two inch asphalt binder overlay with an asphalt sealant to get the right shape back and build some base.

Pavement cost: \$34,108.00

Drainage: The drainage needs a few hours of ditch and berm work, with some drive and cross pipe replacement. Full scope of drainage in attachment.

Drainage Cost: \$2,439.00

Total cost +10% Contingency: \$40,201.70



Ariel



Street view 1 - 2-29-16



Street view 2 – 2-29-16

Cree Lake

Description: The road surface at Cree Lake is a chip and seal. The south side is in better shape than the north side, both will need extensive drainage work and surface overlay or chip seal.

Township: Wayne
Rating: 4-5, Fair – poor
Length: 1.56 miles
Width: 20 feet
Area: 18,304 SYS



Ariel

Pavement: The south side of Cree Lake needs leveling and a double micro seal. The north side needs two inches of asphalt binder and an asphalt sealant.

Pavement cost: \$102,115.00

Drainage: The drainage at Cree Lake needs several hours of ditch and berm work. The drive and cross pipes need replacement at several locations. Full scope of drainage in attachment.

Drainage cost: \$34,683.00

Total cost +10% Contingency: \$150,477.80



Street view 1 northside - 2-23-16



Street view 2 southside - 2-23-16



Street view 3 northside - 2-23-16

Shakopee Lake

Description: Shakopee Lake has an asphalt surface. It is in need of some culvert replacement and surface treatment.

Township: Wayne
Rating: 5 – Fair
Length: 0.57 miles
Width: 20 feet
Area: 6,688 SYS

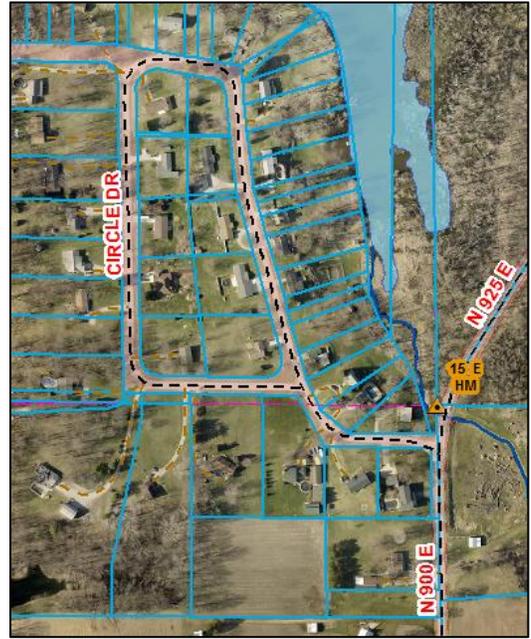
Pavement: The pavement at Shakopee Lake needs some leveling and a double micro seal.

Pavement cost: \$26,752.00

Drainage: The drainage needs a few hours of ditch and berm work, with drive and cross pipe replacement. Full scope of drainage in attachment.

Drainage cost: \$8,183.00

Total cost +10% Contingency: \$38,428.50



Ariel



Street view 1 - 2-23-16



Street view 2 - 2-23-16

Buena Vista

Description: Buena Vista has a chip and seal surface. It needs a fair amount of drainage work and an asphalt overlay.

Township: Wayne
Rating: 5 – Fair
Length: 0.44 miles
Width: 20 feet
Area: 5,162 SYS

Pavement: The pavement is out of shape and does not have much base. A two inch asphalt binder mat with an asphalt sealant will be needed.

Pavement cost: \$36,604.00

Drainage: The drainage at Buena Vista needs some ditch and berm work, and culvert replacement. Full scope of drainage in attachment.

Drainage cost: \$2,856.00

Total cost +10% Contingency: \$43,406.00



Ariel



Street view 1 – 2-17-16



Street view 2 - 2-17-16

Terrance Hills

Description: Terrance Hills has a chip and seal surface. Normal drainage work and an overlay are needed.

Township: Wayne

Rating: 5 – Fair

Length: 0.57 miles

Width: 20 feet

Area: 6,688 SYS

Pavement: The pavement needs some leveling, patching, and a double micro seal.

Pavement cost: \$26,752.00

Drainage: The drainage needs minor ditch and berm work, with culvert replacement. Full scope of drainage in attachment.

Drainage cost: \$4,068.00

Total cost +10% Contingency: \$33,902.00



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Street view 1 - 2-17-16



Street view 2 - 2-17-16

North Shore Drive

Description: North Shore Drive has a chip and seal surface that is in poor condition. Extensive drainage work and surface repair are needed.

Township: Wayne
Rating: 4 – Fair – poor
Length: 1.48 miles
Width: 20 feet
Area: 17,365 SYS

Pavement: The pavement at North Shore Drive is out of shape and rough. This will need a two inch asphalt overlay with an asphalt sealant.

Pavement cost: \$123,123.00

Drainage: The drainage will need a few hours of ditch and berm work, and several culvert replacements. Full scope of drainage in attachment.

Drainage cost: \$15,188.00

Total cost +10% Contingency: \$152,142.10



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Street view 1 - 2-23-16



Street view 2 - 2-23-16

Sunset Shores

Description: Sunset Shores has a chip and seal surface. It needs some drainage work and a surface overlay.



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Township: Wayne

Rating: 5 – Fair

Length: 0.98 miles

Width: 20 feet

Area: 11,498 SYS

Pavement: The pavement at Sunset Shores needs a two inch asphalt binder overlay and an asphalt sealant.

Pavement cost: \$81,527.00

Drainage: The drainage needs a few hours of ditch and berm work. The drive and cross pipes need replacement. Full scope of drainage in attachment.

Drainage cost: \$4,491.00

Total cost +10% Contingency: \$94,619.80



Street view 1 - 2-23-16



Street view 2 - 2-23-16

Wakefield Village

Description: Wakefield Village has a chip and seal surface. It is in need of several hours of ditch and berm work with extensive culvert replacement. The surface needs leveling and surface treatment.

Township: Wayne
Rating: 6 – good
Length: 2.02 miles
Width: 20 feet
Area: 23,701 SYS

Pavement: The pavement at Wakefield Village has a good shape, but needs a double micro seal.

Pavement cost: \$94,804.00

Drainage: Wakefield Village needs several hours of ditch and berm work, with drive and cross pipe replacement. Full scope of drainage in attachment.

Drainage cost: \$23,980.00

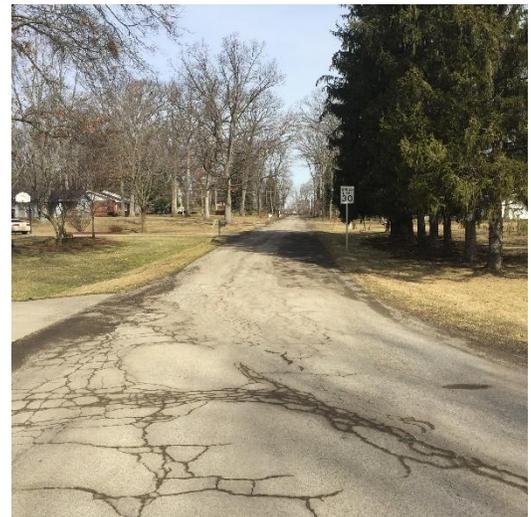
Total cost +10% Contingency: \$130,662.40



Ariel



Street view 1 - 2-23-16



Street view 2 – 2-23-16

Baby Mountain

Description: Baby Mountain has an asphalt surface. The shape and drainage are good with just preventative maintenance needed.

Township: Wayne
Rating: 7 – Good
Length: 0.84 miles
Width: 20 feet
Area: 9,856 SYS

Pavement: This pavement is in good shape, but needs a crack seal and single micro seal.

Pavement cost: \$33,558.00

Drainage: The drainage needs some drive and cross pipe replacement, with a few hours of ditch and berm work. Full scope of drainage in attachment.

Drainage cost: \$5,830.00

Total cost +10% Contingency: \$43,326.80



Ariel



Street view 1 - 2-23-16



Street view 2 - 2-23-16

Meadow Lanes

Description: Meadow Lanes has an older east side and a newer west side. The older side is in fair-poor condition with needs of drainage and surface upgrades. The newer west side has curb and gutter drainage with an asphalt surface.

Township: Wayne
Rating: 5 – Good
Length: 1.4 miles
Width: 22 feet
Area: 18,069

Pavement: The older pavement needs an asphalt overlay of two inches of asphalt with a sealant. The newer pavement needs a slurry seal treatment.

Pavement cost: \$92,931.00

Drainage: The drainage on the west side with the curb and gutter only needs cleaning. The east side needs several hours of ditch and berm work, with drive and cross pipe replacement. Full scope of drainage in attachment.

Drainage cost: \$15,680.00

Total cost +10% Contingency: \$119,472.10



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Street view 1 westside - 2-17-16



Street view 2 eastside – 2-17-16



Street view 3 eastside - 2-17-16

Bodenhafer

Description: Bodenhafer Addition is an older chip and seal addition. It's in need of drainage work, and an overlay.

Township: Allen
Rating: 4 – Fair poor
Length: 0.43 miles
Width: 20 feet
Area: 5,042 SYS

Pavement: The pavement is in a poor condition that needs a double micro seal.

Pavement cost: \$20,168.00

Drainage: The drainage will need a few hours of ditch and berm work. It will also need drive and cross pipe replacement. Full scope of drainage in attachment.

Drainage cost: \$8,099.00

Total cost +10% Contingency: \$31,093.70



Ariel



Street view 1 - 2-23-16



Street view 2 - 2-23-16

Greenwood Drive

Description: Greenwood Drive has a chip and seal surface. It's in a fair to poor condition with drainage and surface needs.



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Township: Allen
Rating: 4 – Fair poor
Length: 0.48 miles
Width: 20 feet
Area: 5,632 SYS

Pavement: This older surface needs a double micro seal.

Pavement cost: \$22,528.00

Drainage: The ditch and berm needs cleaned, and some of the drive and cross pipes need replaced. Full scope of drainage in attachment.

Drainage cost: \$4,154.00

Total coat +10% Contingency: \$29,350.20



Street view 1 - 2-18-16



Street view 2 - 2-18=16

Arthur Drive

Description: Arthur Drive has an asphalt surface that is in good condition. The drainage needs minor updates.

Township: Jefferson
Rating: 8 – Very good
Length: 0.44 miles
Width: 20 feet
Area: 5,162 SYS



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Pavement: This pavement was crack sealed in 2015. In the future it will need a single micro seal.

Pavement cost: \$15,486.00

Drainage: The drainage is good with only a few drive and cross pipes needing replaced. Full scope of drainage in attachment.

Drainage cost: \$2,395.00

Total cost +10% Contingency: \$19,669.10



Street view 1 - 2-29-16



Street view 2 - 2-29-16

Lakeshore Drive

Description: Lakeshore Drive has an asphalt mat base. The road is in good condition with a need for some drainage replacement.

Township: Noble
Rating: 7 – Good
Length: 0.97 miles
Width: 20 feet
Area: 10,812 SYS

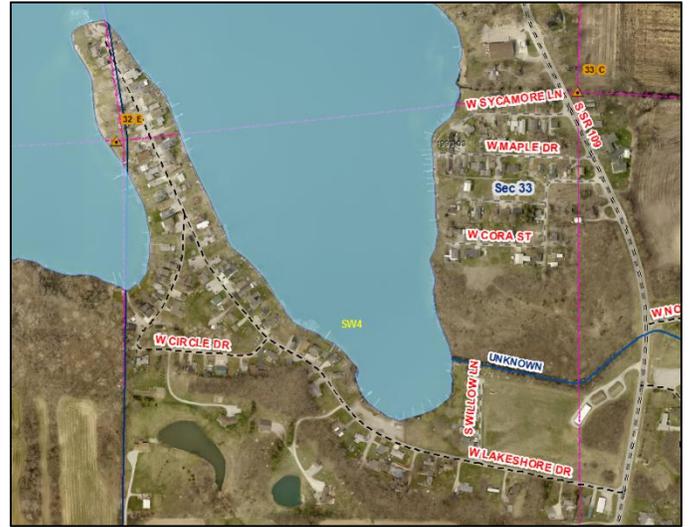
Pavement: The asphalt mat received a chip and seal application in 2014. Future needs are a single micro seal.

Pavement cost: \$32,436.00

Drainage: The drainage is in fair condition with the need for some drive and cross pipe replacement. Full scope of drainage in attachment.

Drainage cost: \$7,580.00

Total cost +10% Contingency: \$44,017.60



Ariel



Street view 1 - 2-19-16



Street view 2 - 2-19-16

Bear Lake

Description: Bear Lake has a chip and seal surface. It's currently in need of extensive repair. Major drainage, leveling, and an asphalt overlay are needed.

Township: Noble
Rating: 3 – Poor
Length: 2.8 miles
Width: 18 feet
Area: 29,568 SYS



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Pavement: This chip and seal is in poor condition with a poor base. The need is for three inches of base asphalt with an inch and half surface asphalt overlay.

Pavement cost: \$410,212.00

Drainage: The drainage will need extensive repair. Multiple drive and cross pipes with some tile being added. Full scope of drainage in attachment.

Drainage cost: \$32,446.00

Total cost +10% Contingency: \$486,923.80



Street view 1 - 2-19-16



Street view 2 - 2-19-16

Hunters Cove

Description: Hunters Cove has an asphalt surface with curb and gutter drainage. This addition is in good condition.

Township: Swan
Rating: 7 – Good
Length: 0.19 miles
Width: 22 feet
Area: 2,563 SYS

Pavement: This asphalt pavement is in good condition with a need for crack sealing and a single micro seal.

Pavement cost: \$7,590.00

Drainage: The curb and gutter are in good condition and only need routine maintenance.

Drainage cost: \$0.00

Total cost +10% Contingency: \$8,349.00



Ariel



Street view 1 - 2-18-16



Street view 2 - 2-18-16

Meadow Court

Description: Meadow Court has an asphalt surface that is in good condition, with some minor drainage needs.

Township: York
Rating: 7 – Good
Length: 0.06 miles
Width: 22 feet
Area: 774 SYS



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Pavement: This asphalt mat is in good condition with a need for a single micro seal.

Pavement cost: \$2,112.00

Drainage: The drainage is good with the only need being one cross pipe needs replaced.

Drainage cost: \$437.00

Total cost +10% Contingency: \$2,803.90



Street view 1 – 2-19-16

East Engle Lake

Description: East Engle Lake has a chip and seal surface that is in fair condition, with some drainage updates needed.

Township: Sparta
Rating: 5 – Fair
Length: 0.32 miles
Width: 20 feet
Area: 3,754 SYS

Pavement: The pavement needs a solid base with a surface coat. Two inches of asphalt binder and an asphalt sealant are need.

Pavement cost: \$26,621.00

Drainage: The ditch and berm cleaning will take a few hours, as will the drive and cross pipe replacement. Full scope of drainage in attachment.

Drainage cost: \$6,972.00

Total cost +10% Contingency: \$36,952.30



Ariel



Street view 1 - 2-4-16



Street view 2 - 2-4-16

Limberlost Trail

Description: Limberlost Trail has a chip and seal surface that is in fair condition. The drainage needs updated.

Township: Orange

Rating: 5 – Fair

Length: 0.44 miles

Width: 20 feet

Area: 5,162 SYS

Pavement: This chip seal needs a double micro seal.

Pavement cost: \$20,648.00

Drainage: The drainage needs to have drive and cross pipe replacement done.

Drainage cost: \$1,500.00

Total cost +10% Contingency: \$24,362.80



Ariel



Street view 1 - 2-29-16



Street view 2 - 2-29-16

60 North

Description: Sixty North has a chip and seal surface that is in fair condition. With minor drainage issues.



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Township: Jefferson

Rating: 5 – Fair

Length: 0.3 miles

Width: 18 feet

Area: 3,168 SYS

Pavement: This chip seal road need a double micro seal.

Pavement cost: \$12,672.00

Drainage: The drainage needs drive and cross pipe replacement with minor ditch and berm work.

Drainage cost: \$6,105.00

Total cost +10% Contingency: \$20,654.70



Street view 1 - 3-7-16



Street view 2 – 3-7-16

High Lake South

Township: Noble
Rating: 6 – Good
Length: 0.74 miles
Width: 20 feet
Area: 8,682 SYS

Description: The south side of High Lake has a chip and seal surface. Some minor drainage and a surface treatment are needed.

Pavement: The pavement should have a double micro seal to keep the water from entering.

Pavement cost: \$34,728.00

Drainage: The replacement of some drive and cross pipes is needed. Full scope of drainage in attachment.

Drainage cost: \$648.00

Total cost +10% Contingency: \$38,913.60



Ariel



Street view 1 – 4-11-16



Street view 2 - 4-11-16