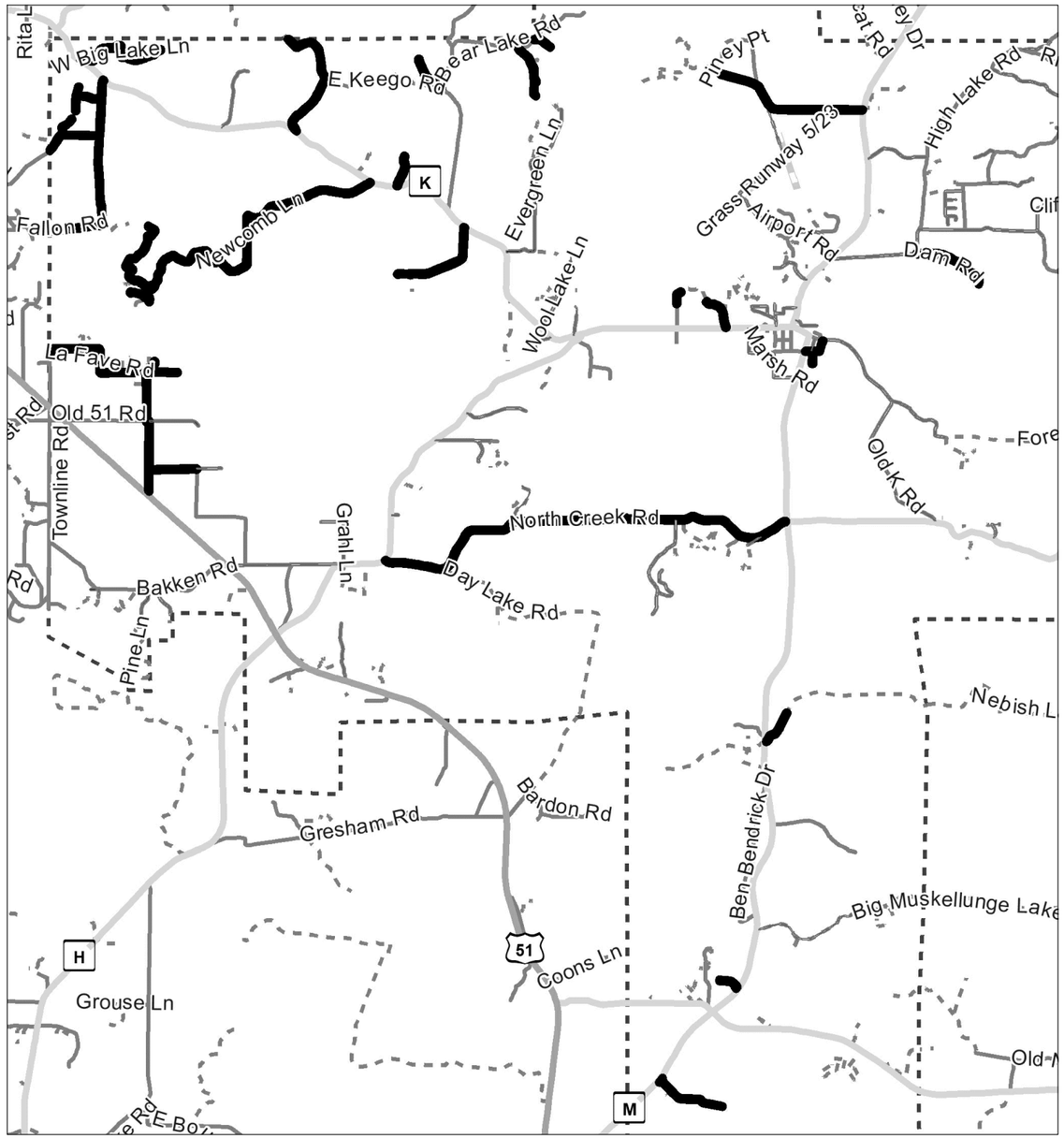
2019 ROAD IMPROVEMENTS

Town of Boulder Junction, Wisconsin



NO SCALE

N

MEMBER ONE CALL SYSTEMS INTERNATIONAL

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WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

LEGEND

UNDERGROUND TELE. — UT — UT — UT — UT —
UNDERGROUND CATV. — CBL — CBL — CBL — CBL —
UNDERGROUND ELEC. — UE — UE — UE — UE — UE — UE —
OVERHEAD — OH — OH — OH —
EXISTING GAS — G — G — G — G — G —
PROPERTY LINE — — — — — — — —
EXISTING WATER MAIN — — — — — — — —
EXISTING SANITARY SEWER — — — — — — — —
EXISTING STORM SEWER — — — — — — — —
EXISTING FENCE LINE — + — + — + — + — + — + —
SAWCUT xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
NEW STORM SEWER
NEW WATER MAIN
NEW SANITARY SEWER

NEW ITEMS:
WATER VALVE, CURB STOP, HYDRANT, MANHOLE, CURB INLET, ENDWALL, CAUTION GAS WARNING

EXISTING ITEMS:
FLAG POLE, MAILBOX, POWER POLE, LIGHT POLE, LAMP POST, PULL BOX
WATER VALVE, CURB STOP, HYDRANT, WELL, MONITORING WELL, TRACER WIRE
SANITARY MANHOLE, SANITARY VALVE, CLEANOUT, STORM MANHOLE, CURB INLET, CIRCULAR INLET
SQUARE INLET, ENDWALL, STUMP, DECID. TREE, EVERGREEN (RELATIVE SIZE SHOWN), SHRUB OR HEDGE, SIGN
CATV. PED., TELE. PED., ELEC. PED., GAS VALVE, STREET SIGN, IRON PIPE, IRON ROD

NOTES: 1.) EXISTING FEATURES AND LABELS ARE SHOWN WITH SCREENED, LIGHTER LINES.
2.) NEW CONCRETE IS SHOWN SHADED IN PLAN VIEWS
3.) CONCRETE REMOVALS ARE SHOWN BY CROSS-HATCHING

TOWN & COUNTRY ENGINEERING, INC.
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Rhinelander, WI 54501
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SHEET	REVISIONS	BY	DATE

2019 ROAD IMPROVEMENTS
Town of Boulder Junction, Wisconsin

PROJECT NO.: BJ 05
DRAWING FILE: BJ 05 DETAILS.DWG
DATE: 3-4-19
DRAWN BY: M.S.T.
CHECKED BY: M.A.B.
REV. DATE:

SHEET INDEX

SHEET NO.	SHEET DESCRIPTION
1	SHEET INDEX
	STANDARD DETAILS
2	EROSION CONTROL – STANDARD CONSTRUCTION DETAILS
3	ROAD/STORM SEWER – STANDARD CONSTRUCTION DETAILS

SHEET INDEX

	ROAD IMPROVEMENTS
4	MAP INDEX
B1	WEST BIG LAKE LANE (HIGHWAY K – TERMINI)
	CLEAR VIEW DRIVE (FALLON ROAD – TOWN ROAD 119)
	TOWN ROAD 119 (TERMINI – TERMINI)
	FALLON ROAD (CLEAR LAKE ROAD – HIGHWAY K)
	RINTLEMAN ROAD (FALLON ROAD – TOWN LIMITS)
	POINT LANE (RINTLEMAN ROAD – TERMINI)
B2	SHORE DRIVE (NEWCOMB LANE – TERMINI)
	FOX TRAIL (NEWCOMB LANE – TERMINI)
	NEWCOMB LANE (HIGHWAY K – TERMINI)
B3	WHITNEY LAKE LANE (HIGHWAY K – TERMINI)
B4	BASS LAKE ROAD (BEAR LAKE ROAD – TERMINI)
	KEEGO ROAD (HIGHWAY K – TOWN LIMITS)
B5	EAST FITZGERALD LANE (FITZGERALD LANE – TERMINI)
	FITZGERALD LANE (ISLAND LAKE ROAD – TERMINI)
	ISLAND LAKE ROAD (OLD 51 ROAD – LA FAVE ROAD)
	LA FAVE ROAD (TOWN LINE ROAD – ISLAND LAKE ROAD)
	SOUTH SHORE BAY LANE (LA FAVE ROAD – TERMINI)
B6	BIRCH POINT LANE (BEAR LAKE ROAD – TERMINI)
	LITTLE CROOKED LANE (BEAR LAKE ROAD – TERMINI)
B7	NORTH CREEK ROAD (OLD 51 ROAD – HIGHWAY M)
B8	CAMP MANITOWISH LANE E (HIGHWAY K – TERMINI)
	CAMP MANITOWISH LANE W (225' BEFORE CURVE – TERMINI)
	CHURCH STREET (GREEN STREET – OLD K)
	GREEN STREET (HIGHWAY M – CHURCH STREET)
B9	NEBISH LAKE ROAD (HIGHWAY M – TOWN LIMITS)
A10	MANN LAKE ROAD (HIGHWAY M – TERMINI)
	PERCH LANE (HIGHWAY M – TERMINI)
A11	DAIRYMENS ROAD (HIGHWAY M – TERMINI)

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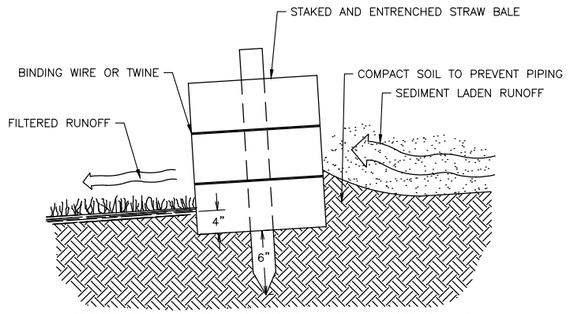
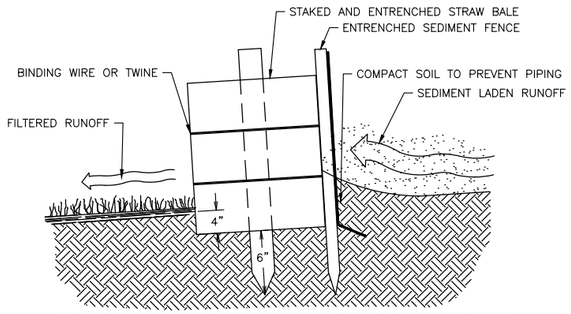
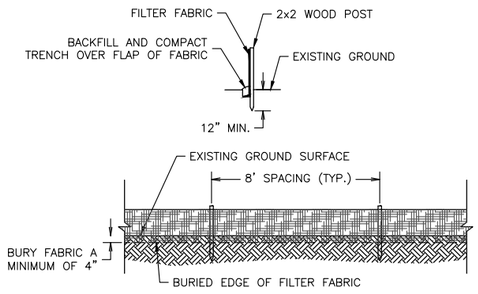
SCALE:	N.T.S.
SHEET:	1



CROSS-SECTION OF A PROPERLY INSTALLED STRAW BALE

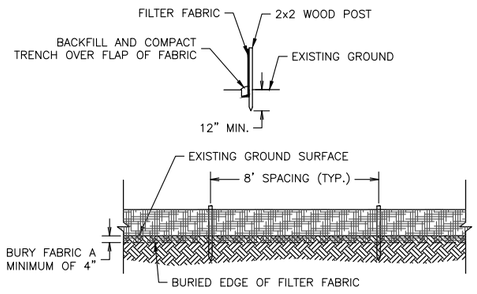


CROSS-SECTION OF A PROPERLY INSTALLED DOUBLE BARRIER



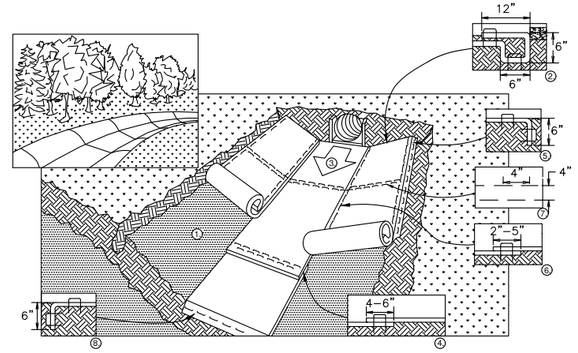
SEDIMENT FENCE DETAIL

EROSION CONTROL DETAILS
DETAIL NO. 02270-A



SEDIMENT FENCE DETAIL

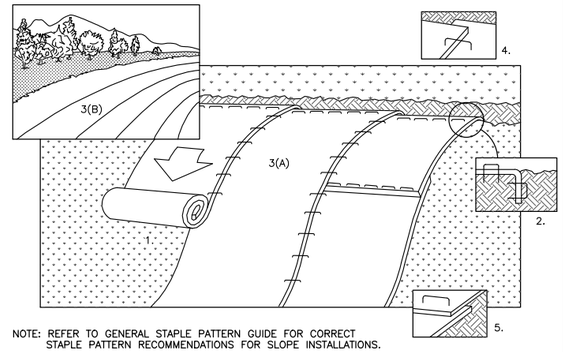
EROSION CONTROL DETAILS
DETAIL NO. 02270-B



1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF FERTILIZER AND SEED.
2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET
3. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO THE SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS RECOMMENDED BY THE MANUFACTURER.
4. PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4-6" OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER TO SECURE BLANKETS.
5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPE MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 4" AND STAPLED.
7. A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
8. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLES OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.

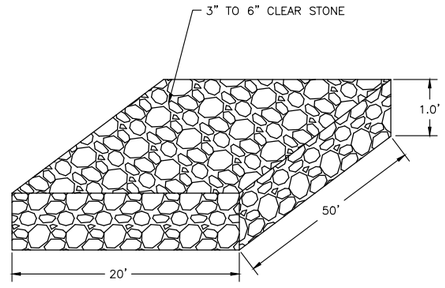
EROSION CONTROL MAT - CHANNEL INSTALLATION
DETAIL 02270-G



NOTE: REFER TO GENERAL STAPLE PATTERN GUIDE FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATIONS.

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF FERTILIZER AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
6. ALL BLANKETS MUST BE SECURELY FASTENED TO THE SLOPE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS RECOMMENDED BY THE MANUFACTURER.

EROSION CONTROL MAT - SLOPE INSTALLATION
DETAIL 02270-H



NOTE: ON STREET SURFACES
CRUSHED AGGREGATE BASE COURSE
SERVES AS A TRACKING PAD

CLEAR STONE TRACKING PAD
DETAIL NO. 02270-L

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CONSTRUCTION DETAILS
EROSION CONTROL

2019 ROAD IMPROVEMENTS
Town of Boulder Junction, Wisconsin

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CHECKED BY:	M.A.B.
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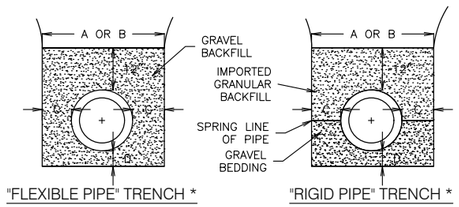
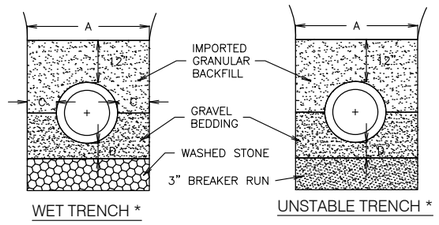
SHEET:	2

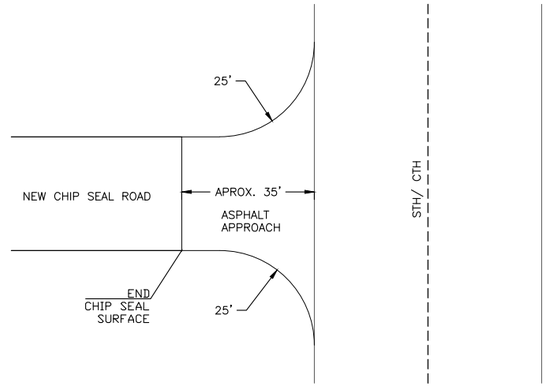
DIMENSIONS:
A: OUTSIDE DIAMETER OF PIPE PLUS 24" (MAXIMUM)
B: FOR ROCK, OUTSIDE DIAMETER OF PIPE PLUS 18" (MAXIMUM)
C: MIMIMUM – 6"
D: 4" BELOW BARREL AND 3" BELOW BELL; IN ROCK, 6" BELOW BARREL



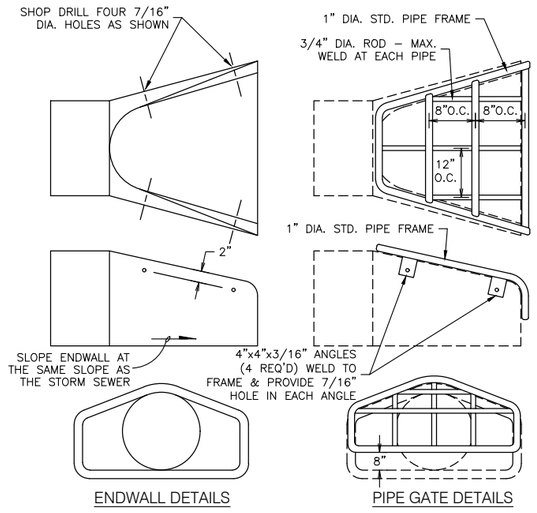


* "RIGID PIPE" INCLUDES REINFORCED CONCRETE PIPE AND DUCTILE IRON PIPE ONLY. ALL OTHER PIPE MATERIALS SHALL BE CONSIDERED "FLEXIBLE PIPE". THE WET TRENCH AND UNSTABLE TRENCH DETAILS ARE DRAWN SHOWING A "RIGID PIPE" TRENCH INSTALLATION.

TRENCH WIDTH AND BEDDING DETAILS
DETAIL 02221–A



ASPHALT APPROACH DETAIL



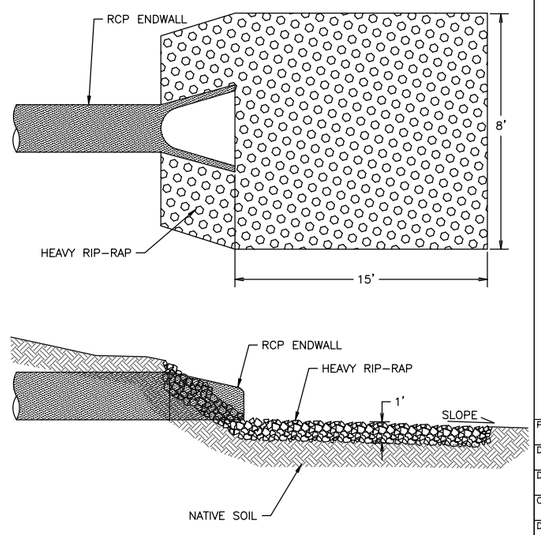
ENDWALL DETAILS | PIPE GATE DETAILS

NOTES:
– THE CONTRACTOR SHALL BOLT THE PIPE GATE TO THE CONCRETE ENDWALL WITH FOUR 3/8"x6" MACHINE BOLTS WITH NUTS ON INSIDE WALL.

PAINTING SPECIFICATIONS:
– THE PIPE GATE SHALL RECEIVER THE FOLLOWING PREPARATION & PAINTING. THE FIRST COAT SHALL BE RUS–OLEUM X–60 RED BARE METAL PRIMER OR APPROVED EQUAL. THE SECOND COAT SHALL BE RUST–OLEUM 960 ZINC CHROMATE PRIMER OR APPROVED EQUAL. THE THIRD COAT SHALL BE RUS–OLEUM 1282 HIGH GLOSS METAL FINISH OR APPROVED EQUAL.

PREPARATION STEPS:
1. BARE METAL SURFACES – TREAT WITH THE THREE–COAT PAINTING SYSTEM LISTED AFTER A THOROUGH SCRAPING, WIRE BRUSHING & CLEANING.
2. EACH COAT OF PAINT SHALL BE APPLIED OVER THE ENTIRE GATE SURFACE.
3. ALLOW 24–48 HOURS DRYING TIME AT 60° OR ABOVE BETWEEN COATS.

STANDARD ENDWALL DETAILS
DETAIL 02721–C



ENDWALL RIP-RAP DETAIL
DETAIL 02721–J

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CONSTRUCTION DETAILS
STORM SEWER

2019 ROAD IMPROVEMENTS
Town of Boulder Junction, Wisconsin

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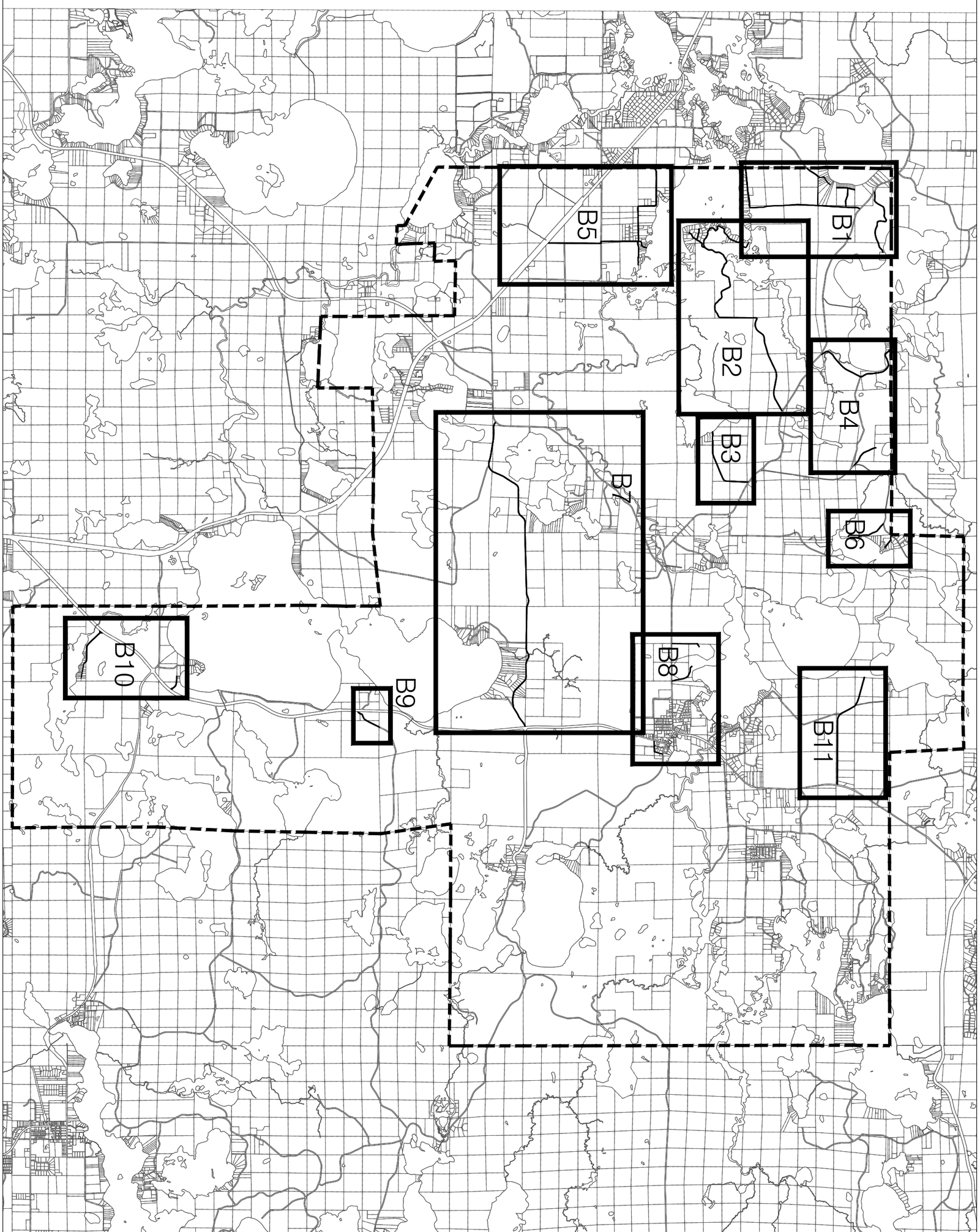
SHEET:	3



2019 ROAD IMPROVEMENTS

Town of Boulder Junction, Wisconsin

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W BIG LAKE LANE	
EXISTING SURFACE	GRAVEL
EXISTING SURFACE LENGTH (MILES)	1.04
EX WIDTH (SHLD - SHLD) (FT)	16
NEW SURFACE	CHIP SEAL
NEW WIDTH (SHLD - SHLD) (FT)	16
NEW SURFACE WIDTH (FT)	16
IDENTIFIED IMPROVEMENTS	
ADDITIONAL CABC DEPTH (IN)	4

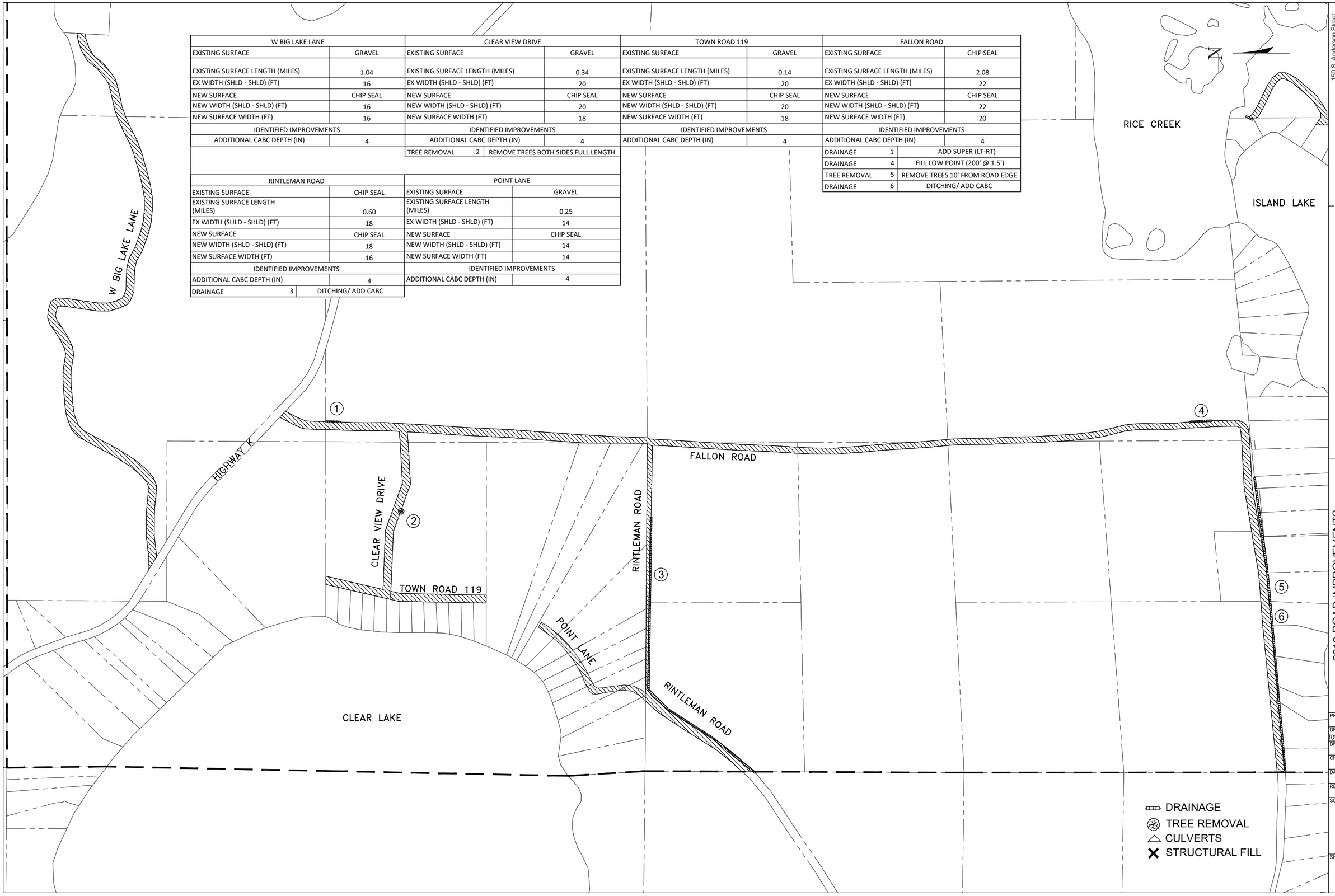
CLEAR VIEW DRIVE		
EXISTING SURFACE	GRAVEL	
EXISTING SURFACE LENGTH (MILES)	0.34	
EX WIDTH (SHLD - SHLD) (FT)	20	
NEW SURFACE	CHIP SEAL	
NEW WIDTH (SHLD - SHLD) (FT)	20	
NEW SURFACE WIDTH (FT)	18	
IDENTIFIED IMPROVEMENTS		
ADDITIONAL CABC DEPTH (IN)	4	
TREE REMOVAL	2	REMOVE TREES BOTH SIDES FULL LENGTH

TOWN ROAD 119	
EXISTING SURFACE	GRAVEL
EXISTING SURFACE LENGTH (MILES)	0.14
EX WIDTH (SHLD - SHLD) (FT)	20
NEW SURFACE	CHIP SEAL
NEW WIDTH (SHLD - SHLD) (FT)	20
NEW SURFACE WIDTH (FT)	18
IDENTIFIED IMPROVEMENTS	
ADDITIONAL CABC DEPTH (IN)	4

FALLON ROAD		
EXISTING SURFACE	CHIP SEAL	
EXISTING SURFACE LENGTH (MILES)	2.08	
EX WIDTH (SHLD - SHLD) (FT)	22	
NEW SURFACE	CHIP SEAL	
NEW WIDTH (SHLD - SHLD) (FT)	22	
NEW SURFACE WIDTH (FT)	20	
IDENTIFIED IMPROVEMENTS		
ADDITIONAL CABC DEPTH (IN)	4	
DRAINAGE	1	ADD SUPER (LT-RT)
DRAINAGE	4	FILL LOW POINT (200' @ 1.5')
TREE REMOVAL	5	REMOVE TREES 10' FROM ROAD EDGE
DRAINAGE	6	DITCHING/ ADD CABC

RINTLEMAN ROAD		
EXISTING SURFACE	CHIP SEAL	
EXISTING SURFACE LENGTH (MILES)	0.60	
EX WIDTH (SHLD - SHLD) (FT)	18	
NEW SURFACE	CHIP SEAL	
NEW WIDTH (SHLD - SHLD) (FT)	18	
NEW SURFACE WIDTH (FT)	16	
IDENTIFIED IMPROVEMENTS		
ADDITIONAL CABC DEPTH (IN)	4	
DRAINAGE	3	DITCHING/ ADD CABC

POINT LANE	
EXISTING SURFACE	GRAVEL
EXISTING SURFACE LENGTH (MILES)	0.25
EX WIDTH (SHLD - SHLD) (FT)	14
NEW SURFACE	CHIP SEAL
NEW WIDTH (SHLD - SHLD) (FT)	14
NEW SURFACE WIDTH (FT)	14
IDENTIFIED IMPROVEMENTS	
ADDITIONAL CABC DEPTH (IN)	4



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CLEAR VIEW DRIVE, FALLON ROAD, POINT LANE, RINTLEMAN ROAD, W BIG LAKE LANE

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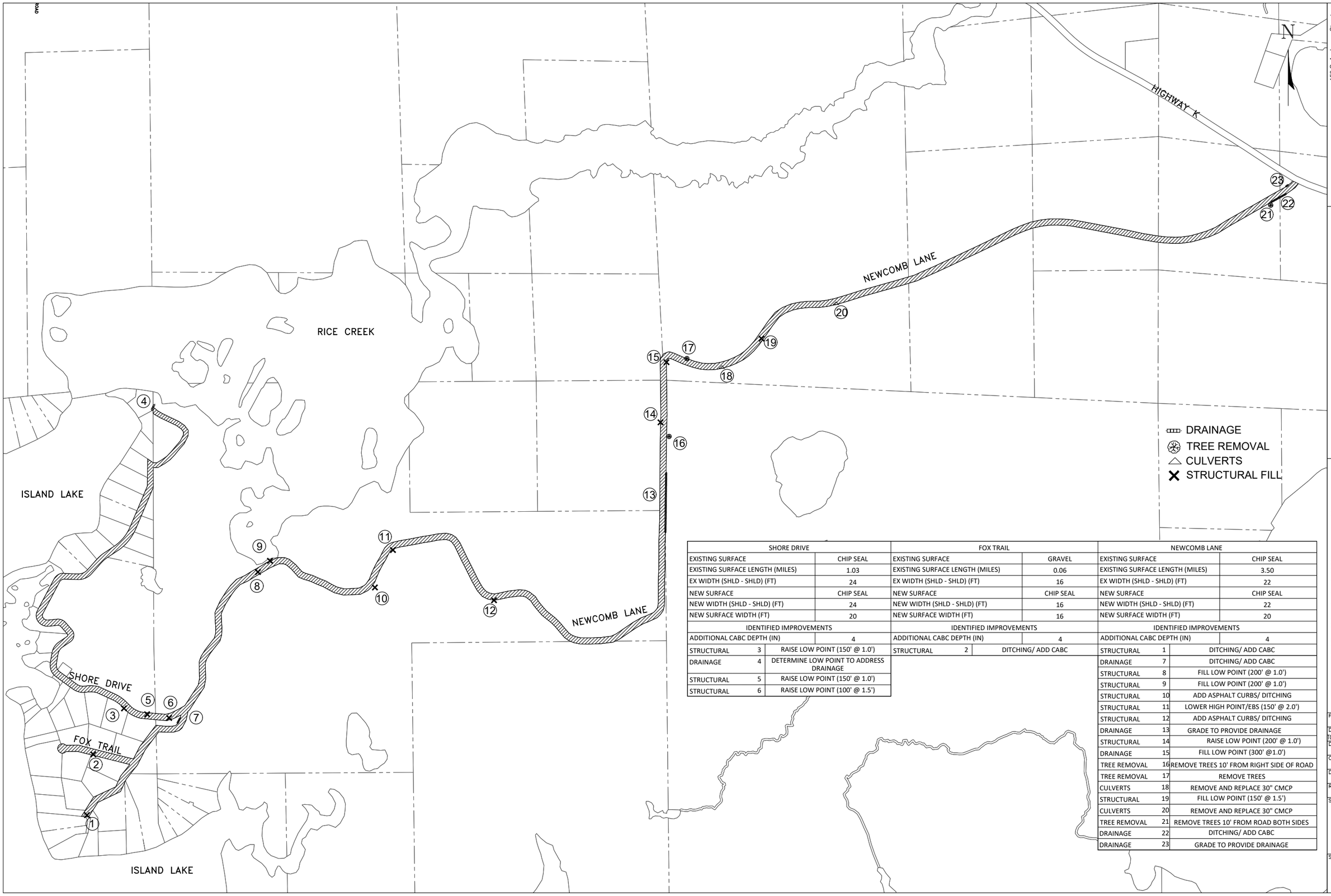

SHORE DRIVE	
EXISTING SURFACE	CHIP SEAL
EXISTING SURFACE LENGTH (MILES)	1.03
EX WIDTH (SHLD - SHLD) (FT)	24
NEW SURFACE	CHIP SEAL
NEW WIDTH (SHLD - SHLD) (FT)	24
NEW SURFACE WIDTH (FT)	20
IDENTIFIED IMPROVEMENTS	
ADDITIONAL CABC DEPTH (IN)	4
STRUCTURAL 3	RAISE LOW POINT (150' @ 1.0')
DRAINAGE 4	DETERMINE LOW POINT TO ADDRESS DRAINAGE
STRUCTURAL 5	RAISE LOW POINT (150' @ 1.0')
STRUCTURAL 6	RAISE LOW POINT (100' @ 1.5')

FOX TRAIL	
EXISTING SURFACE	GRAVEL
EXISTING SURFACE LENGTH (MILES)	0.06
EX WIDTH (SHLD - SHLD) (FT)	16
NEW SURFACE	CHIP SEAL
NEW WIDTH (SHLD - SHLD) (FT)	16
NEW SURFACE WIDTH (FT)	16
IDENTIFIED IMPROVEMENTS	
ADDITIONAL CABC DEPTH (IN)	4
STRUCTURAL 2	DITCHING/ ADD CABC

NEWCOMB LANE	
EXISTING SURFACE	CHIP SEAL
EXISTING SURFACE LENGTH (MILES)	3.50
EX WIDTH (SHLD - SHLD) (FT)	22
NEW SURFACE	CHIP SEAL
NEW WIDTH (SHLD - SHLD) (FT)	22
NEW SURFACE WIDTH (FT)	20
IDENTIFIED IMPROVEMENTS	
ADDITIONAL CABC DEPTH (IN)	4
STRUCTURAL 1	DITCHING/ ADD CABC
DRAINAGE 7	DITCHING/ ADD CABC
STRUCTURAL 8	FILL LOW POINT (200' @ 1.0')
STRUCTURAL 9	FILL LOW POINT (200' @ 1.0')
STRUCTURAL 10	ADD ASPHALT CURBS/ DITCHING
STRUCTURAL 11	LOWER HIGH POINT/EBS (150' @ 2.0')
STRUCTURAL 12	ADD ASPHALT CURBS/ DITCHING
DRAINAGE 13	GRADE TO PROVIDE DRAINAGE
STRUCTURAL 14	RAISE LOW POINT (200' @ 1.0')
DRAINAGE 15	FILL LOW POINT (300' @1.0')
TREE REMOVAL 16	REMOVE TREES 10' FROM RIGHT SIDE OF ROAD
TREE REMOVAL 17	REMOVE TREES
CULVERTS 18	REMOVE AND REPLACE 30" CMCP
STRUCTURAL 19	FILL LOW POINT (150' @ 1.5')
CULVERTS 20	REMOVE AND REPLACE 30" CMCP
TREE REMOVAL 21	REMOVE TREES 10' FROM ROAD BOTH SIDES
DRAINAGE 22	DITCHING/ ADD CABC
DRAINAGE 23	GRADE TO PROVIDE DRAINAGE

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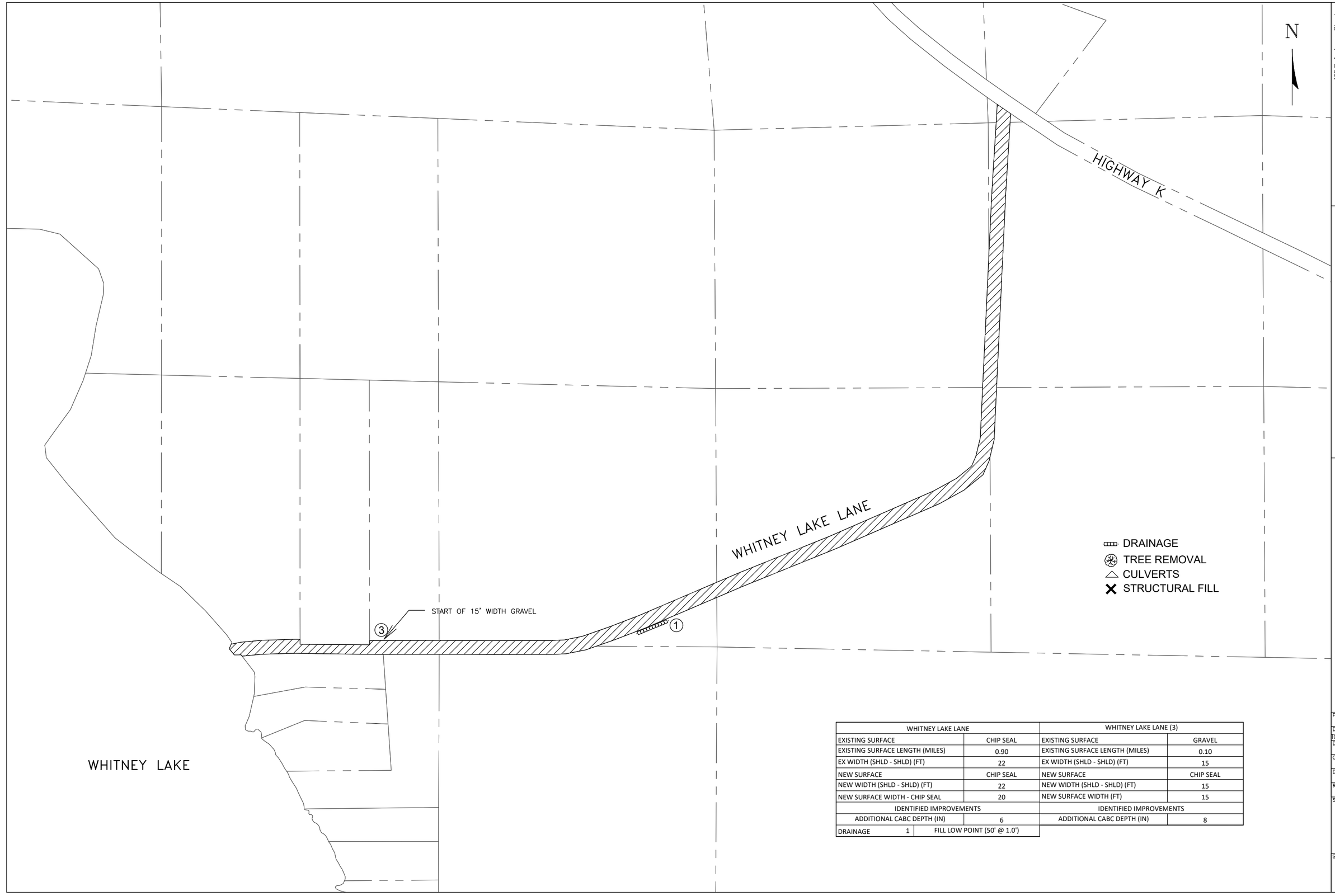
FOX TRAIL, NEWCOMB LANE, SHORE DRIVE

2019 ROAD IMPROVEMENTS

Town of Boulder Junction, Wisconsin

PROJECT NO.: BJ 05
DRAWING FILE: TOWNSHIP 2018.DWG
DRAWN BY: M.S.T.
CHECKED BY: M.A.B.
DATE: 3-4-19
REVISIONS:
SCALE: N.T.S.
SHEET: B2



WHITNEY LAKE LANE		WHITNEY LAKE LANE (3)	
EXISTING SURFACE	CHIP SEAL	EXISTING SURFACE	GRAVEL
EXISTING SURFACE LENGTH (MILES)	0.90	EXISTING SURFACE LENGTH (MILES)	0.10
EX WIDTH (SHLD - SHLD) (FT)	22	EX WIDTH (SHLD - SHLD) (FT)	15
NEW SURFACE	CHIP SEAL	NEW SURFACE	CHIP SEAL
NEW WIDTH (SHLD - SHLD) (FT)	22	NEW WIDTH (SHLD - SHLD) (FT)	15
NEW SURFACE WIDTH - CHIP SEAL	20	NEW SURFACE WIDTH (FT)	15
IDENTIFIED IMPROVEMENTS		IDENTIFIED IMPROVEMENTS	
ADDITIONAL CABC DEPTH (IN)	6	ADDITIONAL CABC DEPTH (IN)	8
DRAINAGE 1	FILL LOW POINT (50' @ 1.0')		

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WHITNEY LAKE LANE

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BASS LAKE ROAD	
EXISTING SURFACE	GRAVEL
EXISTING SURFACE LENGTH (MILES)	0.41
EX WIDTH (SHLD - SHLD) (FT)	16
NEW SURFACE	CHIP SEAL
NEW WIDTH (SHLD - SHLD) (FT)	16
NEW SURFACE WIDTH (FT)	16
IDENTIFIED IMPROVEMENTS	
ADDITIONAL CABC DEPTH (IN)	4

KEEGO ROAD		
EXISTING SURFACE		CHIP SEAL
EXISTING SURFACE LENGTH (MILES)		1.25
EX WIDTH (SHLD - SHLD) (FT)		24
NEW SURFACE		CHIP SEAL
NEW WIDTH (SHLD - SHLD) (FT)		24
NEW SURFACE WIDTH (FT)		20
IDENTIFIED IMPROVEMENTS		
ADDITIONAL CABC DEPTH (IN)		6
CULVERTS	1	ADD 1' MIN. GRAVEL COVER OVER EX. CULVERT
DRAINAGE	2	ADD SUPER (LT - RT)
DRAINAGE	3	ADD SUPER (LT - RT)
DRAINAGE	4	FILL LOW POINT (50' @ 1.0'), ADD FABRIC

N

BIG LAKE

KEEGO ROAD EAST

BASS LAKE ROAD

KEEGO ROAD

MAPLE LAKE

DRAINAGE
TREE REMOVAL
CULVERTS
STRUCTURAL FILL

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BASS LAKE ROAD, KEEGO ROAD

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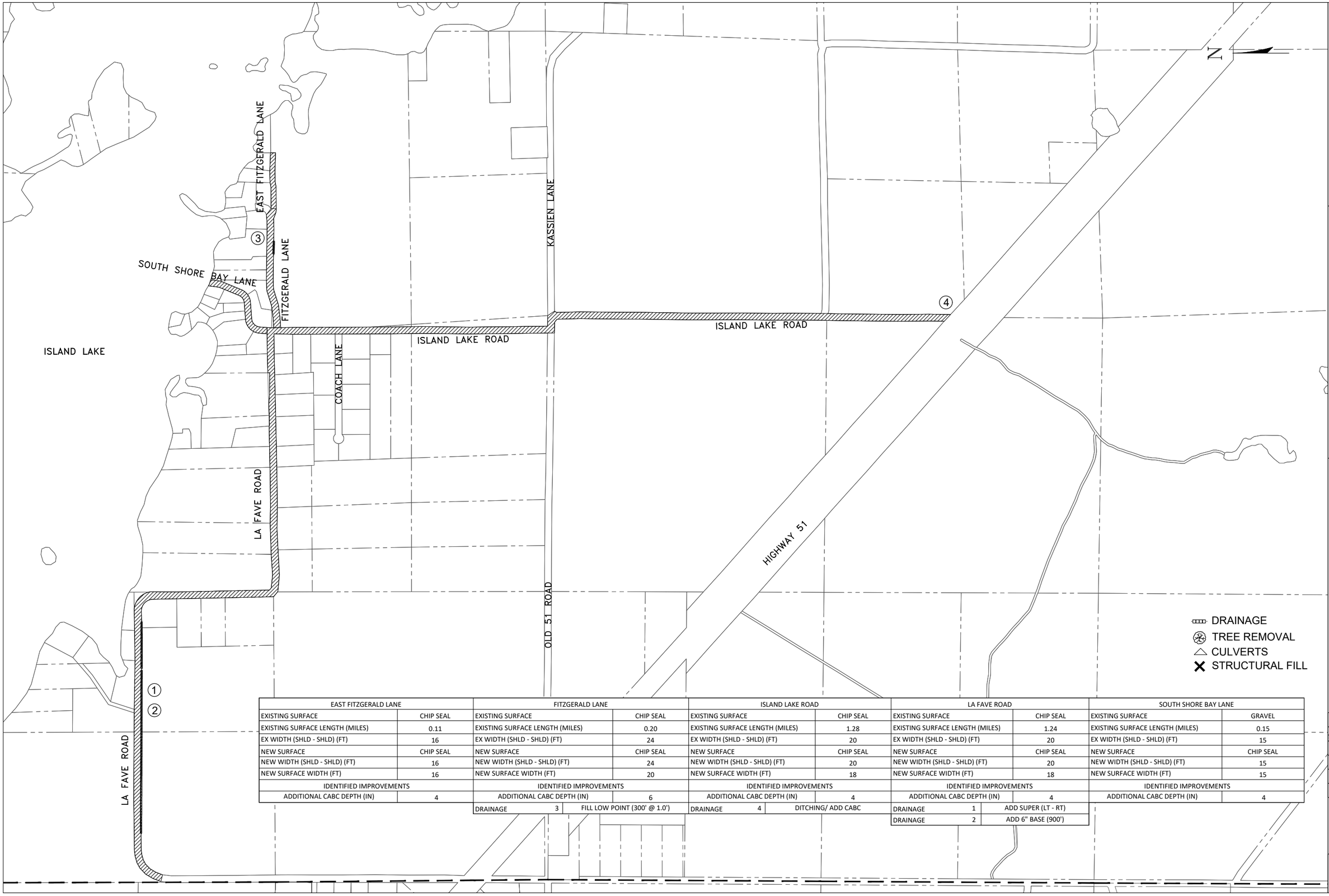

EAST FITZGERALD LANE	
EXISTING SURFACE	CHIP SEAL
EXISTING SURFACE LENGTH (MILES)	0.11
EX WIDTH (SHLD - SHLD) (FT)	16
NEW SURFACE	CHIP SEAL
NEW WIDTH (SHLD - SHLD) (FT)	16
NEW SURFACE WIDTH (FT)	16
IDENTIFIED IMPROVEMENTS	
ADDITIONAL CABC DEPTH (IN)	4

FITZGERALD LANE			
EXISTING SURFACE	CHIP SEAL		
EXISTING SURFACE LENGTH (MILES)	0.20		
EX WIDTH (SHLD - SHLD) (FT)	24		
NEW SURFACE	CHIP SEAL		
NEW WIDTH (SHLD - SHLD) (FT)	24		
NEW SURFACE WIDTH (FT)	20		
IDENTIFIED IMPROVEMENTS			
ADDITIONAL CABC DEPTH (IN)	6		
DRAINAGE 3	FILL LOW POINT (300' @ 1.0')		

ISLAND LAKE ROAD	
EXISTING SURFACE	CHIP SEAL
EXISTING SURFACE LENGTH (MILES)	1.28
EX WIDTH (SHLD - SHLD) (FT)	20
NEW SURFACE	CHIP SEAL
NEW WIDTH (SHLD - SHLD) (FT)	20
NEW SURFACE WIDTH (FT)	18
IDENTIFIED IMPROVEMENTS	
ADDITIONAL CABC DEPTH (IN)	4
DRAINAGE 4	DITCHING/ ADD CABC

LA FAVE ROAD	
EXISTING SURFACE	CHIP SEAL
EXISTING SURFACE LENGTH (MILES)	1.24
EX WIDTH (SHLD - SHLD) (FT)	20
NEW SURFACE	CHIP SEAL
NEW WIDTH (SHLD - SHLD) (FT)	20
NEW SURFACE WIDTH (FT)	18
IDENTIFIED IMPROVEMENTS	
ADDITIONAL CABC DEPTH (IN)	4
DRAINAGE 1	ADD SUPER (LT - RT)
DRAINAGE 2	ADD 6" BASE (900')

SOUTH SHORE BAY LANE	
EXISTING SURFACE	GRAVEL
EXISTING SURFACE LENGTH (MILES)	0.15
EX WIDTH (SHLD - SHLD) (FT)	15
NEW SURFACE	CHIP SEAL
NEW WIDTH (SHLD - SHLD) (FT)	15
NEW SURFACE WIDTH (FT)	15
IDENTIFIED IMPROVEMENTS	
ADDITIONAL CABC DEPTH (IN)	4

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EAST FIZGERALD LANE, FITZGERALD LANE, ISLAND LAKE ROAD, LA FAVE ROAD, SOUTH SHORE BAY LANE

2019 ROAD IMPROVEMENTS

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BIRCH POINT LANE		LITTLE CROOKED LANE	
EXISTING SURFACE	GRAVEL	EXISTING SURFACE	GRAVEL
EXISTING SURFACE LENGTH (MILES)	0.19	EXISTING SURFACE LENGTH (MILES)	0.38
EX WIDTH (SHLD - SHLD) (FT)	16	EX WIDTH (SHLD - SHLD) (FT)	18
NEW SURFACE	CHIP SEAL	NEW SURFACE	CHIP SEAL
NEW WIDTH (SHLD - SHLD) (FT)	16	NEW WIDTH (SHLD - SHLD) (FT)	18
NEW SURFACE WIDTH (FT)	16	NEW SURFACE WIDTH (FT)	16
IDENTIFIED IMPROVEMENTS		IDENTIFIED IMPROVEMENTS	
ADDITIONAL CABC DEPTH (IN)	12	ADDITIONAL CABC DEPTH (IN)	7
DRAINAGE 1	DITCHING/ ADD CABC	DRAINAGE 3	DITCHING/ ADD CABC
TREE REMOVAL 2	REMOVE TREES (ENTIRE LENGTH)	TREE REMOVAL 4	REMOVE TREES (ENTIRE LENGTH)

DRAINAGE
TREE REMOVAL
CULVERTS
STRUCTURAL FILL

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BIRCH POINT LANE, LITTLE CROOKED LANE

2019 ROAD IMPROVEMENTS

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NORTH CREEK ROAD		
EXISTING SURFACE		CHIP SEAL
EXISTING SURFACE LENGTH (MILES)		4.57
EX WIDTH (SHLD - SHLD) (FT)		24
NEW SURFACE		CHIP SEAL
NEW WIDTH (SHLD - SHLD) (FT)		24
NEW SURFACE WIDTH (FT)		20
IDENTIFIED IMPROVEMENTS		
ADDITIONAL CABC DEPTH (IN)		6
DRAINAGE	1	FILL LOW POINT (150' @ 1.0')
STRUCTURAL	2	EBS W/ FABRIC, ADD CABC (150' @ 1.5')
TREE REMOVAL	3	REMOVE TREES (3@ 15')
DRAINAGE	4	DITCHING/ ADD CABC
DRAINAGE	5	ADD CABC (150' @ 1.0')
DRAINAGE	6	ADD SUPER (LT - RT)

N

STREET LAKE LANE

RUDOLPH LAKE LANE

HIGHWAY H

STREET LAKE

RUDOLPH LAKE

EDITH LAKE

JAG LAKE

NORTH CREEK ROAD

NORTH CREEK ROAD

NORTH CREEK ROAD

KERN LANE

TROUT LAKE

① ② ③ ④ ⑤ ⑥

DRAINAGE
TREE REMOVAL
CULVERTS
STRUCTURAL FILL

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NORTH CREEK ROAD

2019 ROAD IMPROVEMENTS

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CAMP MANITOWISH LANE WEST	
EXISTING SURFACE	CHIP SEAL
EXISTING SURFACE LENGTH (MILES)	0.31
EX WIDTH (SHLD - SHLD) (FT)	22
NEW SURFACE	SINGLE CHIP SEAL

CAMP MANITOWISH LANE WEST	
EXISTING SURFACE	CHIP SEAL
EXISTING SURFACE LENGTH (MILES)	0.09
EX WIDTH (SHLD - SHLD) (FT)	22
NEW SURFACE	CHIP SEAL
NEW WIDTH (SHLD - SHLD) (FT)	22
NEW SURFACE WIDTH (FT)	18
IDENTIFIED IMPROVEMENTS	
ADDITIONAL CABC DEPTH (IN)	6
DRAINAGE 1	FILL LOW POINT (150' @ 1.0')
STRUCTURAL 2	ADD SUPER (LT - RT)

CAMP MANITOWISH LANE EAST	
EXISTING SURFACE	GRAVEL
EXISTING SURFACE LENGTH (MILES)	0.39
EX WIDTH (SHLD - SHLD) (FT)	18
NEW SURFACE	CHIP SEAL
NEW WIDTH (SHLD - SHLD) (FT)	18
NEW SURFACE WIDTH (FT)	16
IDENTIFIED IMPROVEMENTS	
ADDITIONAL CABC DEPTH (IN)	6

CHURCH STREET	
EXISTING SURFACE	CHIP SEAL
EXISTING SURFACE LENGTH (MILES)	0.14
EX WIDTH (SHLD - SHLD) (FT)	24
NEW SURFACE	CHIP SEAL
NEW WIDTH (SHLD - SHLD) (FT)	24
NEW SURFACE WIDTH (FT)	20
IDENTIFIED IMPROVEMENTS	
ADDITIONAL CABC DEPTH (IN)	4
DRAINAGE 5	FILL LOW POINT (150' @ 1.0')
DRAINAGE 6	ADD SUPER (LT - RT)
DRAINAGE 7	DITCHING/ ADD CABC

GREEN STREET	
EXISTING SURFACE	CHIP SEAL
EXISTING SURFACE LENGTH (MILES)	0.27
EX WIDTH (SHLD - SHLD) (FT)	24
NEW SURFACE	CHIP SEAL
NEW WIDTH (SHLD - SHLD) (FT)	24
NEW SURFACE WIDTH (FT)	20
IDENTIFIED IMPROVEMENTS	
ADDITIONAL CABC DEPTH (IN)	4
STRUCTURAL 3	FILL LOW POINT (50' @ 0.67')
STRUCTURAL 4	ADD CROWN

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CAMP MANITOWISH LANE E, CAMP MANITOWISH LANE W, CHURCH STREET, GREEN STREET

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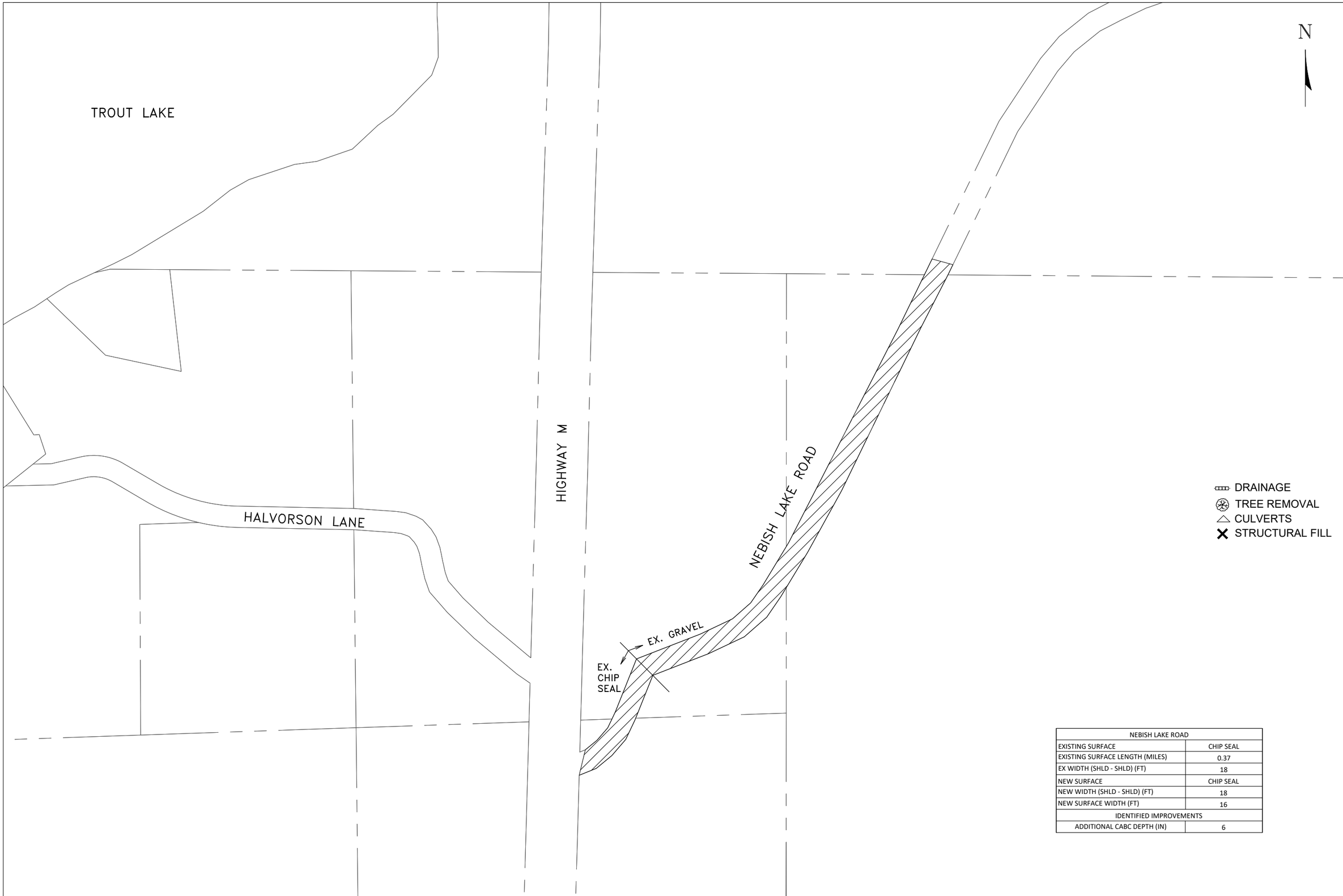

NEBISH LAKE ROAD	
EXISTING SURFACE	CHIP SEAL
EXISTING SURFACE LENGTH (MILES)	0.37
EX WIDTH (SHLD - SHLD) (FT)	18
NEW SURFACE	CHIP SEAL
NEW WIDTH (SHLD - SHLD) (FT)	18
NEW SURFACE WIDTH (FT)	16
IDENTIFIED IMPROVEMENTS	
ADDITIONAL CABC DEPTH (IN)	6

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NEBISH LAKE ROAD

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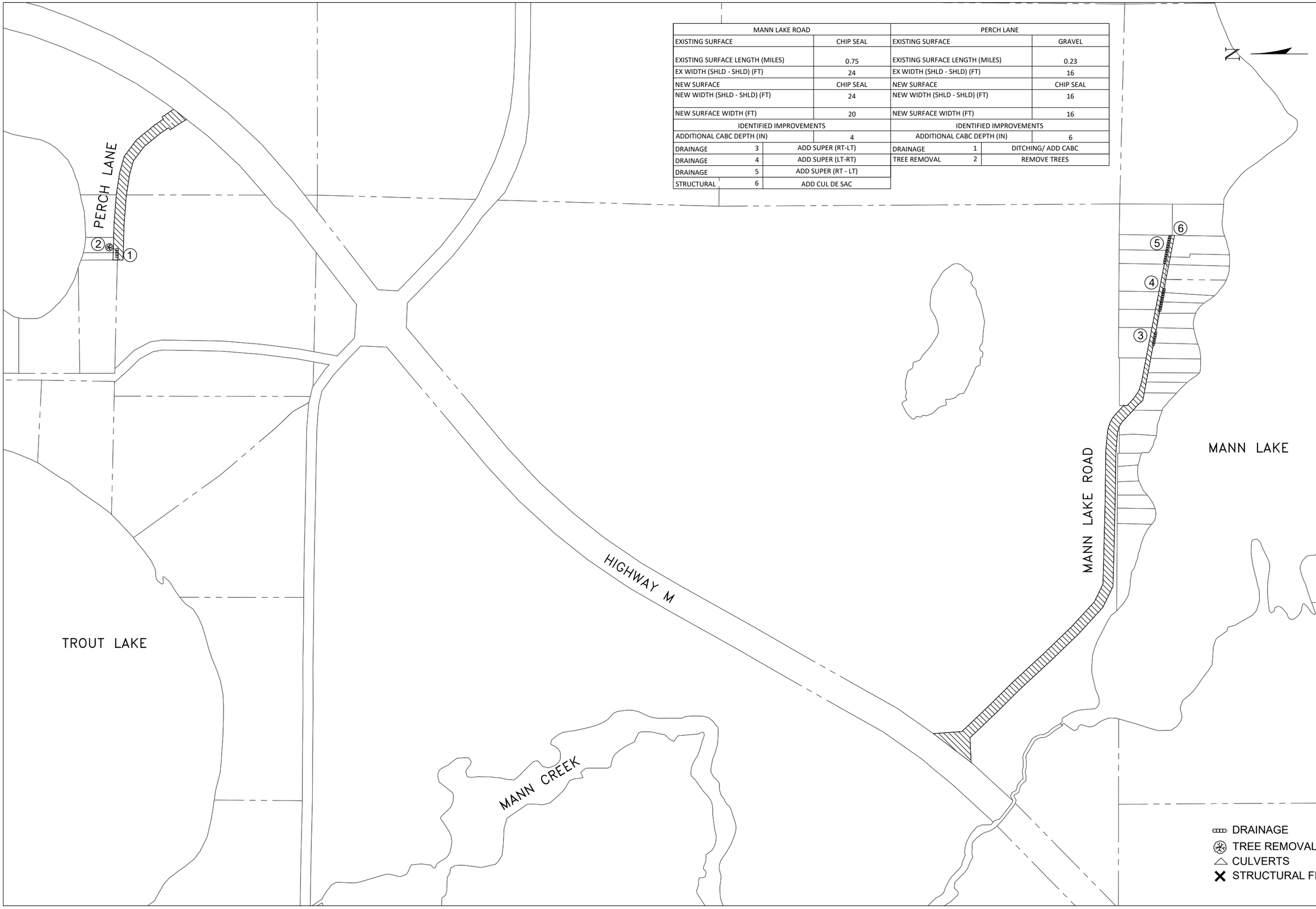
MANN LAKE ROAD			PERCH LANE		
EXISTING SURFACE		CHIP SEAL	EXISTING SURFACE		GRAVEL
EXISTING SURFACE LENGTH (MILES)		0.75	EXISTING SURFACE LENGTH (MILES)		0.23
EX WIDTH (SHLD - SHLD) (FT)		24	EX WIDTH (SHLD - SHLD) (FT)		16
NEW SURFACE		CHIP SEAL	NEW SURFACE		CHIP SEAL
NEW WIDTH (SHLD - SHLD) (FT)		24	NEW WIDTH (SHLD - SHLD) (FT)		16
NEW SURFACE WIDTH (FT)		20	NEW SURFACE WIDTH (FT)		16
IDENTIFIED IMPROVEMENTS			IDENTIFIED IMPROVEMENTS		
ADDITIONAL CABC DEPTH (IN)		4	ADDITIONAL CABC DEPTH (IN)		6
DRAINAGE	3	ADD SUPER (RT-LT)	DRAINAGE	1	DITCHING/ ADD CABC
DRAINAGE	4	ADD SUPER (LT-RT)	TREE REMOVAL	2	REMOVE TREES
DRAINAGE	5	ADD SUPER (RT - LT)			
STRUCTURAL	6	ADD CUL DE SAC			



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MANN LAKE ROAD, PERCH LANE

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DAIRYMENS ROAD	
EXISTING SURFACE	CHIP SEAL
EXISTING SURFACE LENGTH (MILES)	1.55
EX WIDTH (SHLD - SHLD) (FT)	24
NEW SURFACE	CHIP SEAL
NEW WIDTH (SHLD - SHLD) (FT)	24
NEW SURFACE WIDTH (FT)	22
IDENTIFIED IMPROVEMENTS	
ADDITIONAL CABC DEPTH (IN)	6

MAJOR ROAD

DAIRYMENS ROAD

AIRPORT ROAD

HIGHWAY M

DRAINAGE
TREE REMOVAL
CULVERTS
STRUCTURAL FILL

N

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DAIRYMENS ROAD

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