

WINDSTREAM

JOB: #718602105 PHASE: SECTION:
EMERGENCY REPAIR - CABLE DAMAGE BY GUN SHOT
LACROSSE, WI

PRELIMINARY
DATE: 7/29/2020

WINDSTREAM, INC.
13935 BISHOPS DRIVE
BROOKFIELD, WI 53005

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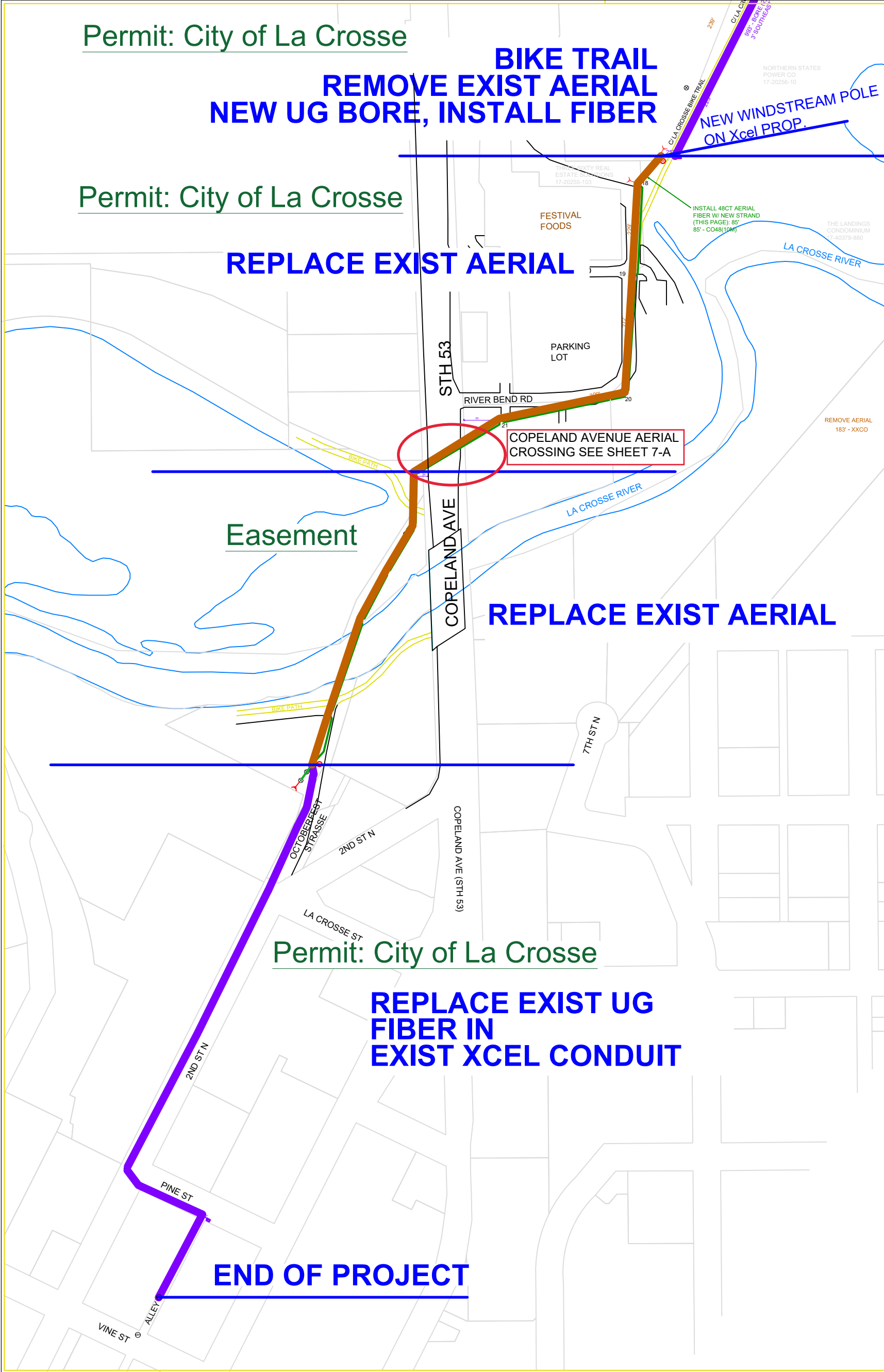
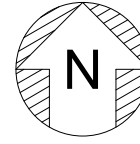
REV	DATE	DESCRIPTION	ENG	DRAFTER

COVER SHEET
JOB: 718602105
PROJECT: EMERGENCY FIBER REPAIR
LOCATION: LACROSSE, WI

PROJECT INFORMATION:	CONTACT NAMES AND NUMBERS:	DRAWING LIST:				DRAWING STATUS				
		SHEET	DESCRIPTION	SHEET	DESCRIPTION	DATE	DESCRIPTION	DRAFTER	SET	
TOTAL SURVEYED AERIAL FOOTAGE: <u> xxaerialxx </u>	PROJECT MANAGER: ERIC BECKER C: (920) 461-9825 eric.becker@windstream.com	CO1	COVER SHEET							
TOTAL SURVEYED UG FOOTAGE: <u> xxugxx </u>		CO2	ROUTE OVERVIEW							
TOTAL FIBER MILES: <u> xxtotalxx </u>		CO3	LEGEND AND GENERAL NOTES							
		CO4	RAKE SHEET							
DRAFTER: NORTHWIND TECHNICAL SERVICES, LLC 414-459-3560		1-2	CONSTRUCTION DRAWINGS							

DESIGNED BY:
DRAWN BY: NWT
SCALE: N/A
DATE DRAWN: 7/29/2020
FILE NAME:
CONSTRUCTION DRAWINGS
JOB NUMBER:
718602105
SHEET: TOTAL SHEETS:
CO1 4

OVERVIEW - 2



DRAWING LIST:		DRAWING STATUS	
SHEET	DESCRIPTION	DATE	SET
CO1	COVER SHEET		
CO2	ROUTE OVERVIEW		
CO3	LEGEND AND GENERAL NOTES		
CO4	RAKE SHEET		
1-2	CONSTRUCTION DRAWINGS		

PROJECT INFORMATION:	CONTACT NAMES AND NUMBERS:
TOTAL SURVEYED AERIAL FOOTAGE: <u>xxaerialxx</u>	PROJECT MANAGER: _____
TOTAL SURVEYED UG FOOTAGE: <u>xxugxx</u>	ERIC BECKER C: (920) 461-9825 eric.becker@windstream.com
TOTAL FIBER MILES: <u>xtotalix</u>	DRAFTER: _____ NORTHWIND TECHNICAL SERVICES, LLC 414-455-3560

SHEET: 2	TOTAL SHEETS: 2
JOB NUMBER: 718602105	
FILE NAME: CONSTRUCTION DRAWINGS	
DATE DRAWN: 7/29/2020	
SCALE: N/A	
DRAWN BY: JMT	
DESIGNED BY:	

TASK OVERVIEW ILLUSTRATION	
JOB:	718602105
PROJECT:	EMERGENCY FIBER REPAIR
LOCATION:	LACROSSE, WI

REV	DATE	DESCRIPTION	ENG	DRAFTER

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WINDSTREAM, INC.
13935 BISHOPS DRIVE
BROOKFIELD, WI 53005

RAKE SHEET

PRELIMINARY
DATE: 7/29/2020

WINDSTREAM, INC.
13935 BISHOPS DRIVE
BROOKFIELD, WI 53006

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UNIT DESCRIPTION	UNIT	SHEET 1	SHEET 2	SHEET 3	SHEET 4	SHEET 5	SHEET 6	SHEET 7	SHEET 8	SHEET 9	SHEET 10	SHEET 11	SHEET 12	SHEET 13	UNIT TOTALS
ABANDON ADSS CABLE	ABANDON ADSS					1137	942	256							2335
SET 35-5 POLE	35-5							1							1
PULL CABLE IN DUCT	BFO48I	75	267	267	558	1143	993	423					160		3886
PLACE FIBER BURIED HANDHOLE	BHF(30X48X36)T					1		1							2
BFO CABLE WARNING SIGN W/ISOLATION TERM	BM53FI					1		1							2
BORE PLASTIC PIPE (2)	BM60(2)(1.25)PF				235	993	993	248							2469
NON METALLIC RISER GUARD PLACEMENT 1.5"	BM80PF				2			2							4
NON METALLIC RISER GUARD PLACEMENT 3"	BM81PF				1			1							2
AERIAL FO ASSEMBLY UNIT (NEW 10M STRAND)	CO48(10M)	140			501			85	1026						1752
AERIAL FO ASSEMBLY UNIT (EXISTING STRAND)	CO48(E)							810	240						1050
AERIAL FIBER SPLICE CLOSURE ASSEMBLY	HAPO(48)	1													1
AERIAL SPLICING	HO1(A)	48													48
MAINTENANCE WINDOW ADDER (PROJECT SPECIFIC)	HOMW(A)	48													48
INSTALL GUY ASSEMBLY UNIT	PE1-3				1			2	1						4
INSTALL HELIX ANCHOR ASSEMBLY UNIT	PF1-5A				1			2	1						4
INSTALL OVERHEAD GUY	PE2-3								2						2
INSTALL FIBER OPTIC SNOWSHOE	PM92	1													1
INSTALL SIDEWALK GUY ASSEMBLY	PM12(5)				1										1
EXPOSE HANDHOLE	WBHF(B)	1			1										2
DELASH EXISTING CABLE	WCWF							810	240						1050
REMOVE AERIAL SPLICE CASE	XXHAPO					1		1							2
REMOVE BURIED FO SPLICE CASE	XXHBFO	1			1								1		3
REMOVAL OF BURIED FIBER OPTIC CABLE	XXBFOI	75	267	267	173								160		942
REMOVAL OF RISER CABLE	XXBFO								30						30
REMOVE WARNING SIGN OR POST	XXBM53F					1									1
REMOVE & REPLACE CABLE U-GUARD (1.5")	WBM80(B)F	2			2				2						6
REMOVE & REPLACE CABLE U-GUARD (3")	WBM81(B)F	1			1				1						3
REMOVE ADSS CABLE	XXCOADSS	140			697				756						1593
REMOVE AERIAL LASHED FIBER OPTIC CABLE AND STRAND	XXCO							810	240						1050
REMOVE UNDERGROUND FIBER OPTIC CABLE	XXUO								150	160	375	350	220	275	1530
PULL (1) 1.25 INNERDUCT IN CONDUIT	UD(1X1.25)V								150	160	375	350	220	275	1530
PULL FIBER IN UNDERGROUND CONDUIT	UO48								150	160	375	350	220	425	1680
INSTALL SLACK LOOP	UOML													1	1
UNDERGROUND SPLICING	HO1(U)													48	48
MAINTENANCE WINDOW ADDER (PROJECT SPECIFIC)	HOMW(U)													48	48
REMOVE & REINSTALL UNDERGROUND SPLICE CASE	WHUO													1	1

REV	DATE	DESCRIPTION	ENG	DRAFTER

RAKE SHEET
JOB: 718602105
PROJECT: EMERGENCY FIBER REPAIR
LOCATION: LACROSSE, WI

DESIGNED BY:
DRAWN BY: NWT
SCALE: N/A
DATE DRAWN: 7/29/2020
FILE NAME:
CONSTRUCTION DRAWINGS
JOB NUMBER:
718602105
SHEET: **CO4** TOTAL SHEETS: **4**

PROJECT INFORMATION:	CONTACT NAMES AND NUMBERS:	DRAWING LIST:	DRAWING STATUS
TOTAL SURVEYED AERIAL FOOTAGE: <u>xxaerialxx</u>	PROJECT MANAGER: ERIC BECKER C: (920) 461-9825 eric.becker@windstream.com	SHEET DESCRIPTION SHEET DESCRIPTION SHEET DESCRIPTION	DATE DESCRIPTION DRAFTER SET
TOTAL SURVEYED UG FOOTAGE: <u>xxugxx</u>	DRAFTER: NORTHWIND TECHNICAL SERVICES, LLC 414-459-3560	CO1 COVER SHEET	
TOTAL FIBER MILES: <u>xxtotalxx</u>		CO2 ROUTE OVERVIEW	
		CO3 LEGEND AND GENERAL NOTES	
		CO4 RAKE SHEET	
		1-2 CONSTRUCTION DRAWINGS	



PAGE 1 - RAKE SHEET

- 1 - PM92
- 48 - HO1(A)
- 48 - HOMW(A)
- 1 - HAPO(48)
- 1 - WBHF
- 1 - XXHBFO
- 2 - WBM80PF
- 1 - WBM81PF
- 140' - CO48(10M)
- 75' - BFO48I
- 75' - XXBFOI
- 140' - XXCOADSS

EXISTING POLE 12EE44
PROPOSED AERIAL SPLICE

- 1 - PM92
- 48 - HO1(A)
- 48 - HOMW(A)
- 1 - HAPO(48)

CHARLES ST

CITY OF LACROSSE
17-10293-55

216' - EXISTING
AERIAL ADSS

SIDEWALK

150'
STORAGE &
SPLICING

ISLAND ST

SIDEWALK

JAI NICKOL JOHNSON
17-10292-60

EXISTING RISER POLE/ EXISTING
BURIED HANDHOLE & SPLICE

EXPOSE HANDHOLE
REMOVE SPLICE & ADD 150' SLACK
LOOP
CUT AND PULL EXISTING AERIAL
FIBER BACK NORTH TO POLE
12EE44 TO USE FOR SLACK LOOP
AND SPLICING

- 1 - WBHF(B)
- 1 - XXHBFO
- 2 - WBM80PF
- 1 - WBM81PF

PAUL H MERFELD
17-10293-57

INSTALL 48CT
AERIAL
FIBER W/ STRAND
140' - CO48(10M)

140'

140' - XXCOADSS

CHARLES CT

CAROL M LOOMIS
LEO J LOOMIS
17-10292-50

MENARD INC
JOHN R MENARD JR
17-10293-20

PULL NEW 48CT FIBER THROUGH
EXISTING DUCT

REMOVE EXISTING FIBER

75' - BFO48I
75' - XXBFOI

(THIS PAGE)

75' - EXISTING (2) 1.25"
DUCTS / 12CT FIBER

MENARD'S
RETAINING
WALL

PRELIMINARY
DATE: 7/29/2020

MATCH TO PAGE 2

WINDSTREAM, INC.
13935 BISHOPS DRIVE
BROOKFIELD, WI 53005

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CONSTRUCTION DRAWING
JOB: 718602105
PROJECT: EMERGENCY FIBER REPAIR
LOCATION: LACROSSE, WI

PROJECT INFORMATION:

TOTAL SURVEYED AERIAL FOOTAGE: xxaerialxx

TOTAL SURVEYED UG FOOTAGE: xxugxx

TOTAL FIBER MILES: xxtotalxx

CONTACT NAMES AND NUMBERS:

PROJECT MANAGER:
ERIC BECKER
C: (920) 461-9825
eric.becker@windstream.com

DRAFTER:
NORTHWIND TECHNICAL SERVICES, LLC 414-459-3560

DRAWING LIST:

SHEET	DESCRIPTION	SHEET	DESCRIPTION	SHEET	DESCRIPTION
CO1	COVER SHEET				
CO2	ROUTE OVERVIEW				
CO3	LEGEND AND GENERAL NOTES				
CO4	RAKE SHEET				
1-X	CONSTRUCTION DRAWINGS				

DRAWING STATUS

DATE	DESCRIPTION	DRAFTER	SET

DESIGNED BY:
DRAWN BY: NWT
SCALE: 1" = 30'
DATE DRAWN: 7/29/2020
FILE NAME:
CONSTRUCTION DRAWINGS
JOB NUMBER:
718602105
SHEET: TOTAL SHEETS:
1 13

MATCH TO PAGE 1

CAROL M LOOMIS
LEO J LOOMIS

17-10292-50



CHARLES CT

HAWKEYE LLC

17-10292-10

(THIS PAGE)
267' - EXISTING (2) 1.25" DUCTS / 12CT FIBER

MENARD'S RETAINING WALL

PULL NEW 48CT FIBER THROUGH EXISTING DUCT

REMOVE EXISTING FIBER

267' - BFO48I
267' - XXBFOI

MENARD INC
JOHN R MENARD JR

17-10293-20

PAGE 2 - RAKE SHEET

267' - BFO48I
267' - XXBFOI

GOULD ST

MATCH TO PAGE 3

PRELIMINARY
DATE: 7/29/2020

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BROOKFIELD, WI 53005

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SHEET: TOTAL SHEETS:
2 13

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TOTAL FIBER MILES: xxtotalxx

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CO4	RAKE SHEET		
1-X	CONSTRUCTION DRAWINGS		

DRAWING STATUS

SHEET	DESCRIPTION	DATE	DESCRIPTION	DRAFTER	SET

MATCH TO PAGE 2

GOULD STREET LLC
17-10293-15

MENARD INC
JOHN R MENARD JR
17-10293-20



GOULD STREET LLC
17-10292-130

(THIS PAGE)
267' - EXISTING (2) 1.25" DUCTS / 12CT FIBER

MENARD'S RETAINING WALL

PULL NEW 48CT FIBER THROUGH
EXISTING DUCT

REMOVE EXISTING FIBER

267' - BFO48I
267' - XXBFOI

PAGE 3 - RAKE SHEET

267' - BFO48I
267' - XXBFOI

PRELIMINARY
DATE: 7/29/2020

MATCH TO PAGE 4

PROJECT INFORMATION:

TOTAL SURVEYED AERIAL FOOTAGE: xxaerialxx
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TOTAL FIBER MILES: xxtotalxx

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CO3	LEGEND AND GENERAL NOTES				
CO4	RAKE SHEET				
1-X	CONSTRUCTION DRAWINGS				

DRAWING STATUS

DATE	DESCRIPTION	DRAFTER	SET

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13935 BISHOPS DRIVE
BROOKFIELD, WI 53005

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718602105
SHEET: TOTAL SHEETS:
3 13

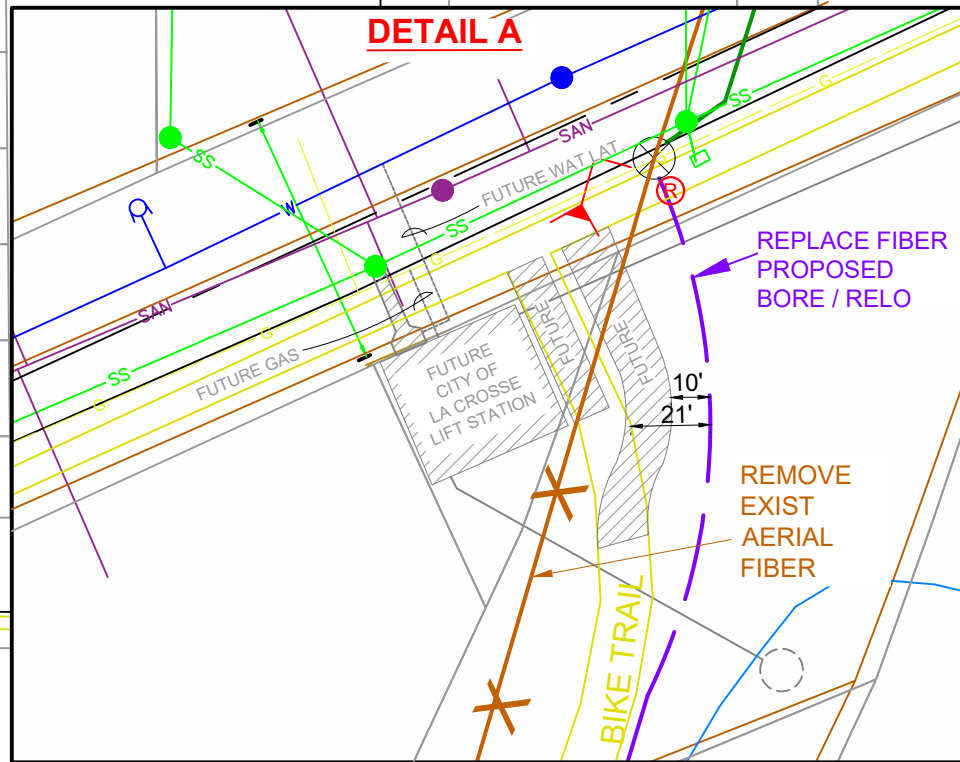
PAGE 4 - RAKE SHEET

- 558' - BFO48I
- 173' - XXBFOI
- 2 - WBM80PF
- 1 - WBM81PF
- 1 - WBHF(B)
- 1 - XXHBFO
- 697' - XXCOADSS
- 501' - CO48(10M)
- 1 - PM12(5)
- 1 - PE1-3
- 1 - PF1-5A
- 2 - BM80PF
- 1 - BM81PF
- 235' - BM60(2)(1.25)PF

- 15HH13 - EXISTING RISER POLE
- 2 - WBM80PF
 - 1 - WBM81PF

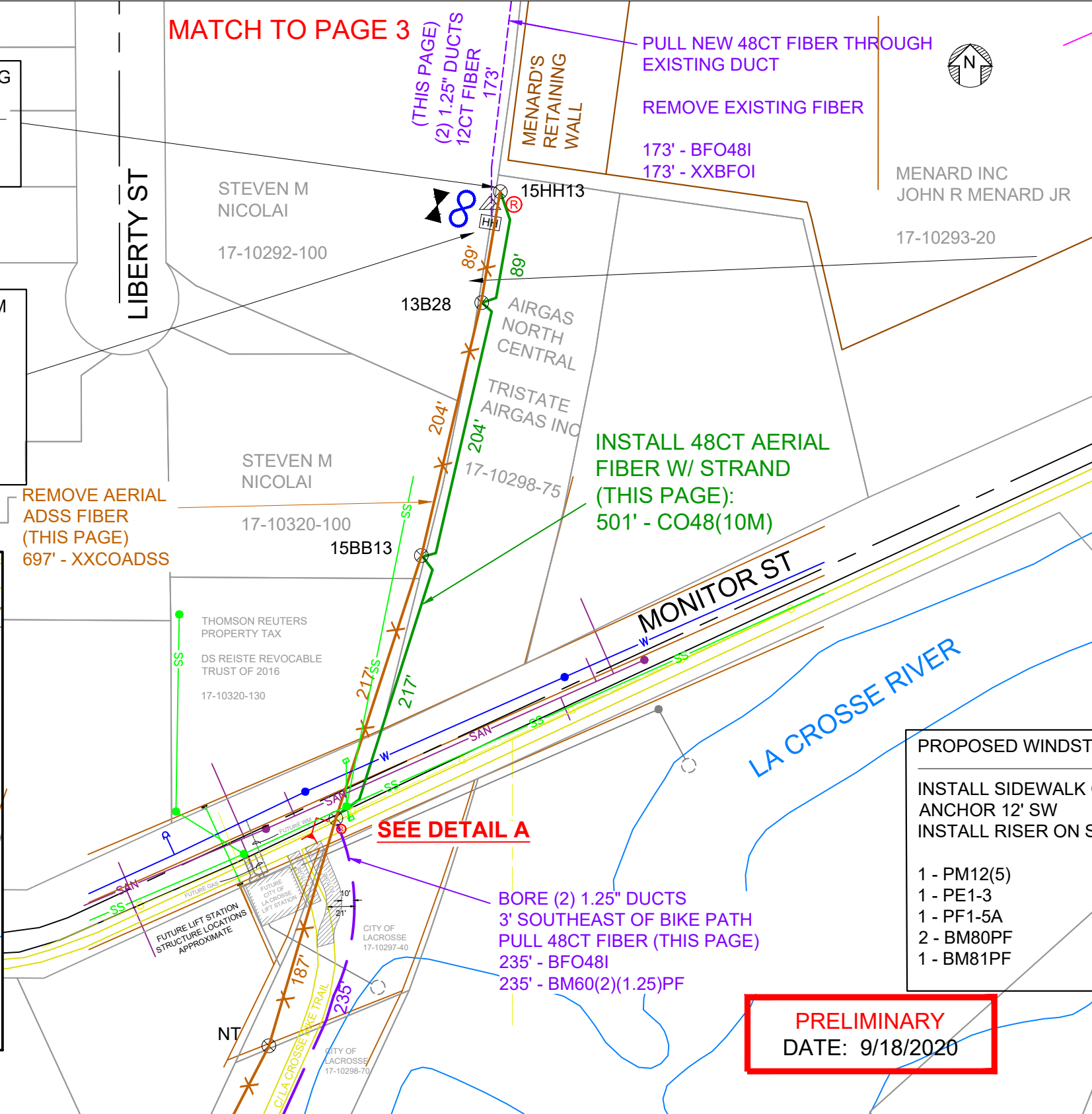
- EXPOSE BURIED WINDSTREAM HANDHOLE
REMOVE EXISTING SPLICE
INSTALL 150' SLACK LOOP
- 1 - WBHF(B)
 - 1 - XXHBFO
 - 150' - BFO48I

- REMOVE AERIAL ADSS FIBER (THIS PAGE)
697' - XXCOADSS



MATCH TO PAGE 5

MATCH TO PAGE 3



- INSTALL 48CT AERIAL FIBER W/ STRAND (THIS PAGE):
501' - CO48(10M)

- BORE (2) 1.25" DUCTS
3' SOUTHEAST OF BIKE PATH
PULL 48CT FIBER (THIS PAGE)
235' - BFO48I
235' - BM60(2)(1.25)PF

PRELIMINARY
DATE: 9/18/2020

- PROPOSED WINDST
- INSTALL SIDEWALK C
 - ANCHOR 12' SW
 - INSTALL RISER ON S
- 1 - PM12(5)
 - 1 - PE1-3
 - 1 - PF1-5A
 - 2 - BM80PF
 - 1 - BM81PF



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TOTAL SURVEYED UG FOOTAGE: xxugxx
TOTAL FIBER MILES: xxtotalxx

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JOB NUMBER:	718602105
SHEET:	TOTAL SHEETS:
4	13

PAGE 6 - RAKE SHEET
 993' - BFO48I
 993' - BM60(2)(1.25)PF
 942' - ABANDON ADSS

ABANDON AERIAL ADSS
 FIBER IN PLACE OVER
 MARSH (THIS PAGE)
 942' - ABANDON ADSS

BORE (2) 1.25" DUCTS
 PULL 48CT FIBER (THIS PAGE)
 993' - BFO48I
 993' - BM60(2)(1.25)PF

PRELIMINARY
 DATE: 7/29/2020

MATCH TO PAGE 5

MATCH TO PAGE 7

COPELAND AVE (STH 53)

NORTHERN STATES
 POWER CO
 17-20256-20

NORTHERN STATES
 POWER CO
 17-20256-10

NORTHERN STATES
 POWER CO
 17-20256-10

LA CROSSE RIVER

C/LA CROSSE BIKE TRAIL
 993' - BORE (2) 1.25" DUCTS
 3' SOUTHEAST OF BIKE PATH

WINDSTREAM, INC.
 13935 BISHOPS DRIVE
 BROOKFIELD, WI 53005

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 C: (920) 461-9825
 eric.becker@windstream.com
 DRAFTER:
 NORTHWIND TECHNICAL SERVICES, LLC 414-459-3560

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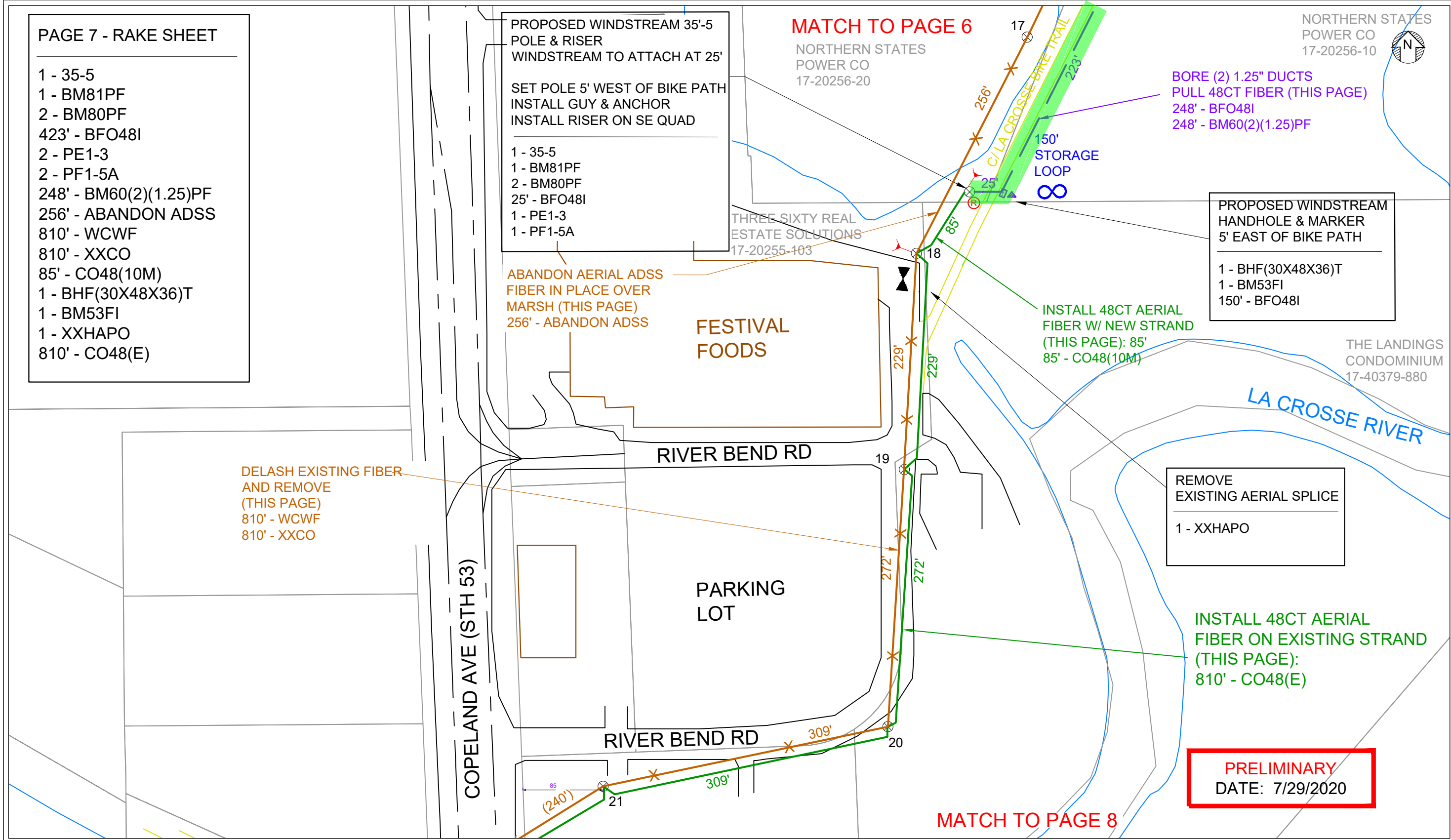
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718602105
 SHEET: TOTAL SHEETS:
 6 13

PAGE 7 - RAKE SHEET

- 1 - 35-5
- 1 - BM81PF
- 2 - BM80PF
- 423' - BFO48I
- 2 - PE1-3
- 2 - PF1-5A
- 248' - BM60(2)(1.25)PF
- 256' - ABANDON ADSS
- 810' - WCWF
- 810' - XXCO
- 85' - CO48(10M)
- 1 - BHF(30X48X36)T
- 1 - BM53FI
- 1 - XXHAPO
- 810' - CO48(E)



MATCH TO PAGE 6

NORTHERN STATES
POWER CO
17-20256-20

NORTHERN STATES
POWER CO
17-20256-10



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LOCATION: LACROSSE, WI

PROPOSED WINDSTREAM
HANDHOLE & MARKER
5' EAST OF BIKE PATH

1 - BHF(30X48X36)T
1 - BM53FI
150' - BFO48I

REMOVE
EXISTING AERIAL SPLICE

1 - XXHAPO

INSTALL 48CT AERIAL
FIBER ON EXISTING STRAND
(THIS PAGE):
810' - CO48(E)

PRELIMINARY
DATE: 7/29/2020

MATCH TO PAGE 8

PROJECT INFORMATION:
TOTAL SURVEYED AERIAL FOOTAGE: xxaerialxx
TOTAL SURVEYED UG FOOTAGE: xxugxx
TOTAL FIBER MILES: xxtotalxx

CONTACT NAMES AND NUMBERS:
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DRAFTER:
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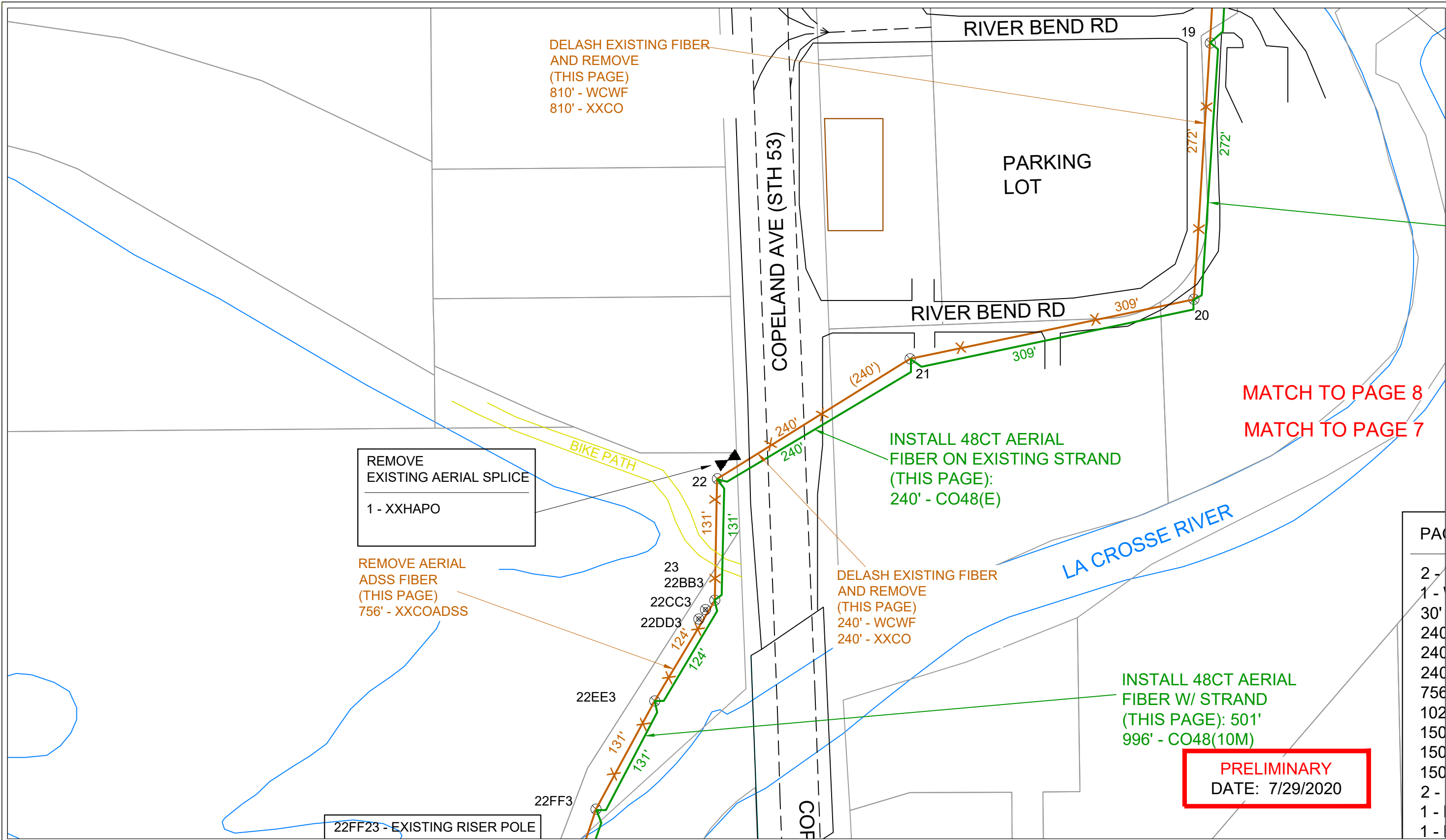
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CO2	ROUTE OVERVIEW				
CO3	LEGEND AND GENERAL NOTES				
CO4	RAKE SHEET				
1-X	CONSTRUCTION DRAWINGS				

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718602105
SHEET: 7 TOTAL SHEETS: 13



DELASH EXISTING FIBER
AND REMOVE
(THIS PAGE)
810' - WCWF
810' - XXCO

REMOVE
EXISTING AERIAL SPLICE
1 - XXHAPO

REMOVE AERIAL
ADSS FIBER
(THIS PAGE)
756' - XXCOADSS

INSTALL 48CT AERIAL
FIBER ON EXISTING STRAND
(THIS PAGE):
240' - CO48(E)

DELASH EXISTING FIBER
AND REMOVE
(THIS PAGE)
240' - WCWF
240' - XXCO

INSTALL 48CT AERIAL
FIBER W/ STRAND
(THIS PAGE): 501'
996' - CO48(10M)

PRELIMINARY
DATE: 7/29/2020

MATCH TO PAGE 8
MATCH TO PAGE 7

22FF23 - EXISTING RISER POLE

PAGE
2 -
1 -
30'
240'
240'
240'
756'
102'
150'
150'
2 -
1 -
1 -

PROJECT INFORMATION:

TOTAL SURVEYED AERIAL FOOTAGE: xxaerialxx
TOTAL SURVEYED UG FOOTAGE: xxugxx
TOTAL FIBER MILES: xxtotalxx

CONTACT NAMES AND NUMBERS:

PROJECT MANAGER:
ERIC BECKER
C: (920) 461-9825
eric.becker@windstream.com

DRAFTER:
NORTHWIND TECHNICAL SERVICES, LLC 414-459-3560

DRAWING LIST:

SHEET	DESCRIPTION	SHEET	DESCRIPTION	SHEET	DESCRIPTION
CO1	COVER SHEET				
CO2	ROUTE OVERVIEW				
CO3	LEGEND AND GENERAL NOTES				
CO4	RAKE SHEET				
1	WISDOT PERMIT PLAN				

DRAWING STATUS

DATE	DESCRIPTION	DRAFTER	SET



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REV	DATE	DESCRIPTION	ENG	DRAFTER

CONSTRUCTION DRAWING
JOB: 718602105
PROJECT: EMERGENCY FIBER REPAIR
LOCATION: LACROSSE, WI

DESIGNED BY:
DRAWN BY: NWT
SCALE: 1" = 30'
DATE DRAWN: 7/29/2020
FILE NAME:
CONSTRUCTION DRAWINGS
JOB NUMBER:
718602105
SHEET: TOTAL SHEETS:
7-A 13

REMOVE EXISTING AERIAL SPLICE
1 - XXHAPO

REMOVE AERIAL ADSS FIBER (THIS PAGE)
756' - XXCOADSS

22FF23 - EXISTING RISER POLE
2 - WBM80PF
1 - WBM81PF
30' - XXBFO
30' - CO48(10M)

XCEL MANHOLE M22D23

REMOVE EXISTING WINDSTREAM FIBER IN (1) 1.25" HDPE DUCT (THIS PAGE)
150' - XXUO
INSTALL 48CT FIBER IN (1) 1.25" HDPE DUCT (THIS PAGE)
150' - UD(1x1.25)V
150' - UO48

AERIAL SPAN GUY 2 - PE2-3
INSTALL ANCHOR 1 - PE1-3
1 - PF1-5A

INSTALL 48CT AERIAL FIBER ON EXISTING STRAND (THIS PAGE):
240' - CO48(E)

DELASH EXISTING FIBER AND REMOVE (THIS PAGE)
240' - WCWF
240' - XXCO

INSTALL 48CT AERIAL FIBER W/ STRAND (THIS PAGE):
501' - CO48(10M)

MATCH TO PAGE 7

MATCH TO PAGE 9

PAGE 8 - RAKE SHEET
2 - WBM80PF
1 - WBM81PF
30' - XXBFO
240' - CO48(E)
240' - WCWF
240' - XXCO
756' - XXCOADSS
1026' - CO48(10M)
150' - XXUO
150' - UD(1x1.25)V
150' - UO48
2 - PE2-3
1 - PE1-3
1 - PF1-5A

PRELIMINARY
DATE: 7/29/2020

WINDSTREAM, INC.
13935 BISHOPPS DRIVE
BROOKFIELD, WI 53005

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REV	DATE	DESCRIPTION	ENG	DRAFTER

CONSTRUCTION DRAWING
JOB: 718602105
PROJECT: EMERGENCY FIBER REPAIR
LOCATION: LACROSSE, WI

DESIGNED BY: _____
DRAWN BY: NWT
SCALE: 1" = 100'
DATE DRAWN: 7/29/2020
FILE NAME: CONSTRUCTION DRAWINGS
JOB NUMBER: 718602105
SHEET: 8 TOTAL SHEETS: 13

PROJECT INFORMATION:
TOTAL SURVEYED AERIAL FOOTAGE: xxaerialxx
TOTAL SURVEYED UG FOOTAGE: xxugxx
TOTAL FIBER MILES: xxtotalxx

CONTACT NAMES AND NUMBERS:
PROJECT MANAGER:
ERIC BECKER
C: (920) 461-9825
eric.becker@windstream.com
DRAFTER:
NORTHWIND TECHNICAL SERVICES, LLC 414-459-3560

DRAWING LIST:

SHEET	DESCRIPTION	SHEET	DESCRIPTION	SHEET	DESCRIPTION
CO1	COVER SHEET				
CO2	ROUTE OVERVIEW				
CO3	LEGEND AND GENERAL NOTES				
CO4	RAKE SHEET				
1-X	CONSTRUCTION DRAWINGS				

DRAWING STATUS

DATE	DESCRIPTION	DRAFTER	SET



XCEL
MH 22A23

MH

160'
EXISTING 36CT FIBER IN
(1) 1.25" HDPE DUCT

(125')

REMOVE EXISTING WINDSTREAM FIBER IN
(1) 1.25" HDPE DUCT (THIS PAGE)

160' - XXUO

INSTALL 48CT FIBER IN
(1) 1.25" HDPE DUCT (THIS PAGE)

160' - UD(1x1.25)V
160' - UO48

MATCH TO PAGE 8

2ND ST N

PAGE 9 - RAKE SHEET

160' - XXUO
160' - UD(1x1.25)V
160' - UO48

XCEL
MH 22B23

MH

(375')

LA CROSSE ST

MATCH TO PAGE 10

PRELIMINARY
DATE: 7/29/2020

PROJECT INFORMATION:

TOTAL SURVEYED AERIAL FOOTAGE: xxaerialxx

TOTAL SURVEYED UG FOOTAGE: xxugxx

TOTAL FIBER MILES: xxtotalxx

CONTACT NAMES AND NUMBERS:

PROJECT MANAGER:
ERIC BECKER
C: (920) 461-9825
eric.becker@windstream.com

DRAFTER:
NORTHWIND TECHNICAL SERVICES, LLC 414-459-3560

DRAWING LIST:

SHEET	DESCRIPTION	SHEET	DESCRIPTION
CO1	COVER SHEET		
CO2	ROUTE OVERVIEW		
CO3	LEGEND AND GENERAL NOTES		
CO4	RAKE SHEET		
1-X	CONSTRUCTION DRAWINGS		

DRAWING STATUS

SHEET	DESCRIPTION	DATE	DRAFTER	SET

CONSTRUCTION DRAWING

JOB: 718602105
PROJECT: EMERGENCY FIBER REPAIR
LOCATION: LACROSSE, WI

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UPON REQUEST.

REV	DATE	DESCRIPTION	ENG	DRAFTER

DESIGNED BY:
DRAWN BY: NWT
SCALE: 1" = 30'
DATE DRAWN: 7/29/2020
FILE NAME:
CONSTRUCTION DRAWINGS
JOB NUMBER:
718602105
SHEET: TOTAL SHEETS:
9 13

WINDSTREAM, INC.
13935 BISHOPS DRIVE
BROOKFIELD, WI 53005



PAGE 10 - RAKE SHEET

375' - XXUO
 375' - UD(1x1.25)V
 375' - UO48

MATCH TO PAGE 9

REMOVE EXISTING WINDSTREAM FIBER IN
 (1) 1.25" HDPE DUCT (THIS PAGE)

375' - XXUO

INSTALL 48CT FIBER IN
 (1) 1.25" HDPE DUCT (THIS PAGE)

375' - UD(1x1.25)V
 375' - UO48

2ND ST N

375'
 EXISTING 36CT FIBER IN
 (1) 1.25" HDPE DUCT

PRELIMINARY
 DATE: 7/29/2020

MATCH TO PAGE 11

WINDSTREAM, INC.
 13935 BISHOPS DRIVE
 BROOKFIELD, WI 53005

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REV	DATE	DESCRIPTION	ENG	DRAFTER

CONSTRUCTION DRAWING
 JOB: 718602105
 PROJECT: EMERGENCY FIBER REPAIR
 LOCATION: LACROSSE, WI

PROJECT INFORMATION:
 TOTAL SURVEYED AERIAL FOOTAGE: xxaerialxx
 TOTAL SURVEYED UG FOOTAGE: xxugxx
 TOTAL FIBER MILES: xxtotalxx

CONTACT NAMES AND NUMBERS:
 PROJECT MANAGER:
 ERIC BECKER
 C: (920) 461-9825
 eric.becker@windstream.com
 DRAFTER:
 NORTHWIND TECHNICAL SERVICES, LLC 414-459-3560

DRAWING LIST:

SHEET	DESCRIPTION	SHEET	DESCRIPTION	SHEET	DESCRIPTION
CO1	COVER SHEET				
CO2	ROUTE OVERVIEW				
CO3	LEGEND AND GENERAL NOTES				
CO4	RAKE SHEET				
1-X	CONSTRUCTION DRAWINGS				

DRAWING STATUS

DATE	DESCRIPTION	DRAFTER	SET

DESIGNED BY:
 DRAWN BY: NWT
 SCALE: 1" = 30'
 DATE DRAWN: 7/29/2020
 FILE NAME:
 CONSTRUCTION DRAWINGS
 JOB NUMBER:
718602105
 SHEET: 10 TOTAL SHEETS: 13



PAGE 11 - RAKE SHEET

350' - XXUO
350' - UD(1x1.25)V
350' - UO48

XCEL
MH 22A43

MH

MATCH TO PAGE 10

2ND ST N

350'
EXISTING 36CT FIBER IN
(1) 1.25" HDPE DUCT

REMOVE EXISTING WINDSTREAM FIBER IN
(1) 1.25" HDPE DUCT (THIS PAGE)

350' - XXUO

INSTALL 48CT FIBER IN
(1) 1.25" HDPE DUCT (THIS PAGE)

350' - UD(1x1.25)V
350' - UO48

MATCH TO PAGE 12

PRELIMINARY
DATE: 7/29/2020

PROJECT INFORMATION:

TOTAL SURVEYED AERIAL FOOTAGE: xxaerialxx

TOTAL SURVEYED UG FOOTAGE: xxugxx

TOTAL FIBER MILES: xxtotalxx

CONTACT NAMES AND NUMBERS:

PROJECT MANAGER:

ERIC BECKER
C: (920) 461-9825
eric.becker@windstream.com

DRAFTER:

NORTHWIND TECHNICAL SERVICES, LLC 414-459-3560

DRAWING LIST:

SHEET	DESCRIPTION	SHEET	DESCRIPTION	SHEET	DESCRIPTION
CO1	COVER SHEET				
CO2	ROUTE OVERVIEW				
CO3	LEGEND AND GENERAL NOTES				
CO4	RAKE SHEET				
1-X	CONSTRUCTION DRAWINGS				

DRAWING STATUS

DATE	DESCRIPTION	DRAFTER	SET

CONSTRUCTION DRAWING

JOB: 718602105
PROJECT: EMERGENCY FIBER REPAIR
LOCATION: LACROSSE, WI

DESIGNED BY:
DRAWN BY: NWT
SCALE: 1" = 30'
DATE DRAWN: 7/29/2020
FILE NAME:
CONSTRUCTION DRAWINGS
JOB NUMBER:
718602105
SHEET: TOTAL SHEETS:
11 13

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REV	DATE	DESCRIPTION	ENG	DRAFTER

WINDSTREAM, INC.
13935 BISHOPS DRIVE
BROOKFIELD, WI 53005



MATCH TO PAGE 11

PAGE 12 - RAKE SHEET

- 1 - XXHBFO
- 160' - XXBFOI
- 160' - BFO48I
- 220' - XXUO
- 220' - UD(1x1.25)V
- 220' - UO48

XCEL
MH 22A53

MH

(350')

EXISTING WINDSTREAM HH & SPLICE CASE

REMOVE EXISTING SPLICE
INSTALL NEW 150' SLACK LOOP

1 - XXHBFO
160' - XXBFOI
160' - BFO48I

PINE ST

220'
EXISTING 36CT FIBER IN
(1) 1.25" HDPE DUCT

2ND STN

REMOVE EXISTING WINDSTREAM FIBER IN
(1) 1.25" HDPE DUCT (THIS PAGE)

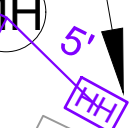
220' - XXUO

INSTALL 48CT FIBER IN
(1) 1.25" HDPE DUCT (THIS PAGE)

220' - UD(1x1.25)V
220' - UO48

XCEL
MH 28F3

MH



ALLEY

(275')

PRELIMINARY
DATE: 7/29/2020

MATCH TO PAGE 13



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REV	DATE	DESCRIPTION	ENG	DRAFTER

CONSTRUCTION DRAWING
JOB: 718602105
PROJECT: EMERGENCY FIBER REPAIR
LOCATION: LACROSSE, WI

PROJECT INFORMATION:
TOTAL SURVEYED AERIAL FOOTAGE: xxaerialxx
TOTAL SURVEYED UG FOOTAGE: xxugxx
TOTAL FIBER MILES: xxtotalxx

CONTACT NAMES AND NUMBERS:
PROJECT MANAGER:
ERIC BECKER
C: (920) 461-9825
eric.becker@windstream.com

DRAFTER:
NORTHWIND TECHNICAL SERVICES, LLC 414-459-3560

DRAWING LIST:

SHEET	DESCRIPTION	SHEET	DESCRIPTION	SHEET	DESCRIPTION
CO1	COVER SHEET				
CO2	ROUTE OVERVIEW				
CO3	LEGEND AND GENERAL NOTES				
CO4	RAKE SHEET				
1-X	CONSTRUCTION DRAWINGS				

DRAWING STATUS

DATE	DESCRIPTION	DRAFTER	SET

DESIGNED BY:
DRAWN BY: NWT
SCALE: 1" = 30'
DATE DRAWN: 7/29/2020
FILE NAME:
CONSTRUCTION DRAWINGS
JOB NUMBER:
718602105
SHEET: 12 TOTAL SHEETS: 13

MATCH TO PAGE 12



EXISTING WINDSTREAM MANHOLE & SPLICE

SPLICE NEW 48CT FIBER TO EXSTING 36CT PULL THROUGH NEW 1.25" HDPE DUCT. INSTALL NEW 150' SLACK LOOP

REMOVE EXISTING FIBER AND DUCT ONCE CUTOVER IS COMPLETE

1 - WHUO
48 - HO1(U)
48 - HOMW(U)
1 - UOML
150' - UO48

PAGE 13 - RAKE SHEET

1 - WHUO
48 - HO1(U)
48 - HOMW(U)
1 - UOML
275' - XXUO
275' - UD(1x1.25)V
425' - UO48

EXISTING 24CT FIBER IN (1) 1.25" HDPE DUCT

EXISTING 36CT FIBER IN DUCT

EXISTING 36CT FIBER IN DUCT

REMOVE EXISTING WINDSTREAM FIBER IN (1) 1.25" HDPE DUCT (THIS PAGE)

275' - XXUO

INSTALL 48CT FIBER IN (1) 1.25" HDPE DUCT (THIS PAGE)

275' - UD(1x1.25)V
275' - UO48

PRELIMINARY
DATE: 7/29/2020

2ND ST N

VINE ST

ALLEY

MH

MH

XCEL
MH 28A3

100'

275'

PROJECT INFORMATION:

TOTAL SURVEYED AERIAL FOOTAGE: xxaerialxx

TOTAL SURVEYED UG FOOTAGE: xxugxx

TOTAL FIBER MILES: xxtotalxx

CONTACT NAMES AND NUMBERS:

PROJECT MANAGER:
ERIC BECKER
C: (920) 461-9825
eric.becker@windstream.com

DRAFTER:
NORTHWIND TECHNICAL SERVICES, LLC 414-459-3560

DRAWING LIST:

SHEET	DESCRIPTION	SHEET	DESCRIPTION	SHEET	DESCRIPTION
CO1	COVER SHEET				
CO2	ROUTE OVERVIEW				
CO3	LEGEND AND GENERAL NOTES				
CO4	RAKE SHEET				
1-X	CONSTRUCTION DRAWINGS				

DRAWING STATUS

DATE	DESCRIPTION	DRAFTER	SET

WINDSTREAM, INC.
13935 BISHOPS DRIVE
BROOKFIELD, WI 53005

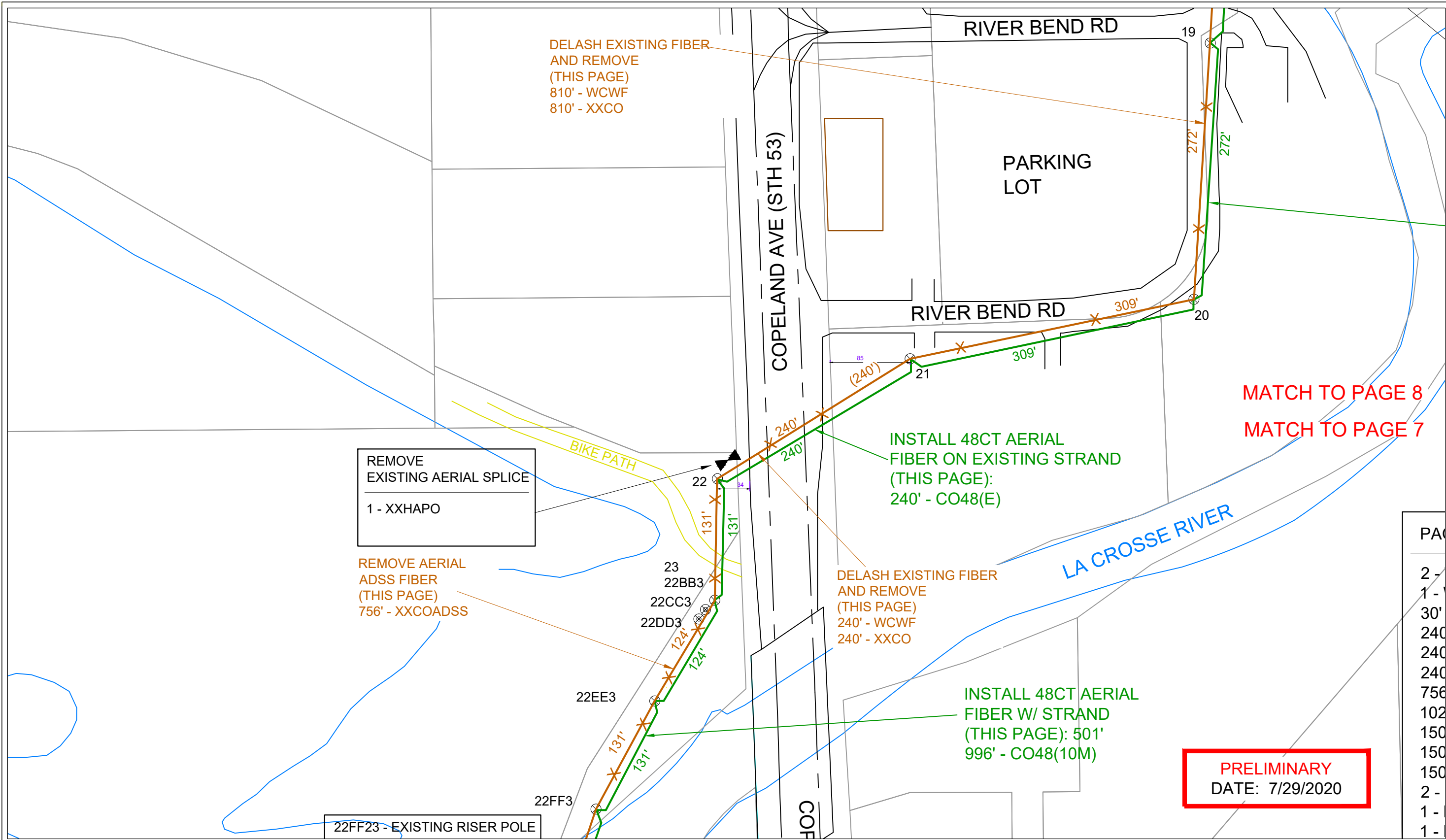
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REV	DATE	DESCRIPTION	ENG	DRAFTER

CONSTRUCTION DRAWING

JOB: 718602105
PROJECT: EMERGENCY FIBER REPAIR
LOCATION: LACROSSE, WI

DESIGNED BY: NWT
DRAWN BY: NWT
SCALE: 1" = 30'
DATE DRAWN: 7/29/2020
FILE NAME: CONSTRUCTION DRAWINGS
JOB NUMBER: 718602105
SHEET: 13 TOTAL SHEETS: 13



DELASH EXISTING FIBER
AND REMOVE
(THIS PAGE)
810' - WCWF
810' - XXCO

REMOVE
EXISTING AERIAL SPLICE
1 - XXHAPO

REMOVE AERIAL
ADSS FIBER
(THIS PAGE)
756' - XXCOADSS

DELASH EXISTING FIBER
AND REMOVE
(THIS PAGE)
240' - WCWF
240' - XXCO

INSTALL 48CT AERIAL
FIBER ON EXISTING STRAND
(THIS PAGE):
240' - CO48(E)

INSTALL 48CT AERIAL
FIBER W/ STRAND
(THIS PAGE): 501'
996' - CO48(10M)

PRELIMINARY
DATE: 7/29/2020

MATCH TO PAGE 8
MATCH TO PAGE 7

22FF23 - EXISTING RISER POLE

PROJECT INFORMATION:

TOTAL SURVEYED AERIAL FOOTAGE: xxaerialxx
TOTAL SURVEYED UG FOOTAGE: xxugxx
TOTAL FIBER MILES: xxtotalxx

CONTACT NAMES AND NUMBERS:

PROJECT MANAGER:
ERIC BECKER
C: (920) 461-9825
eric.becker@windstream.com

DRAFTER:
NORTHWIND TECHNICAL SERVICES, LLC 414-459-3560

DRAWING LIST:

SHEET	DESCRIPTION	SHEET	DESCRIPTION	SHEET	DESCRIPTION
CO1	COVER SHEET				
CO2	ROUTE OVERVIEW				
CO3	LEGEND AND GENERAL NOTES				
CO4	RAKE SHEET				
1	WISDOT PERMIT PLAN				

DRAWING STATUS

DATE	DESCRIPTION	DRAFTER	SET



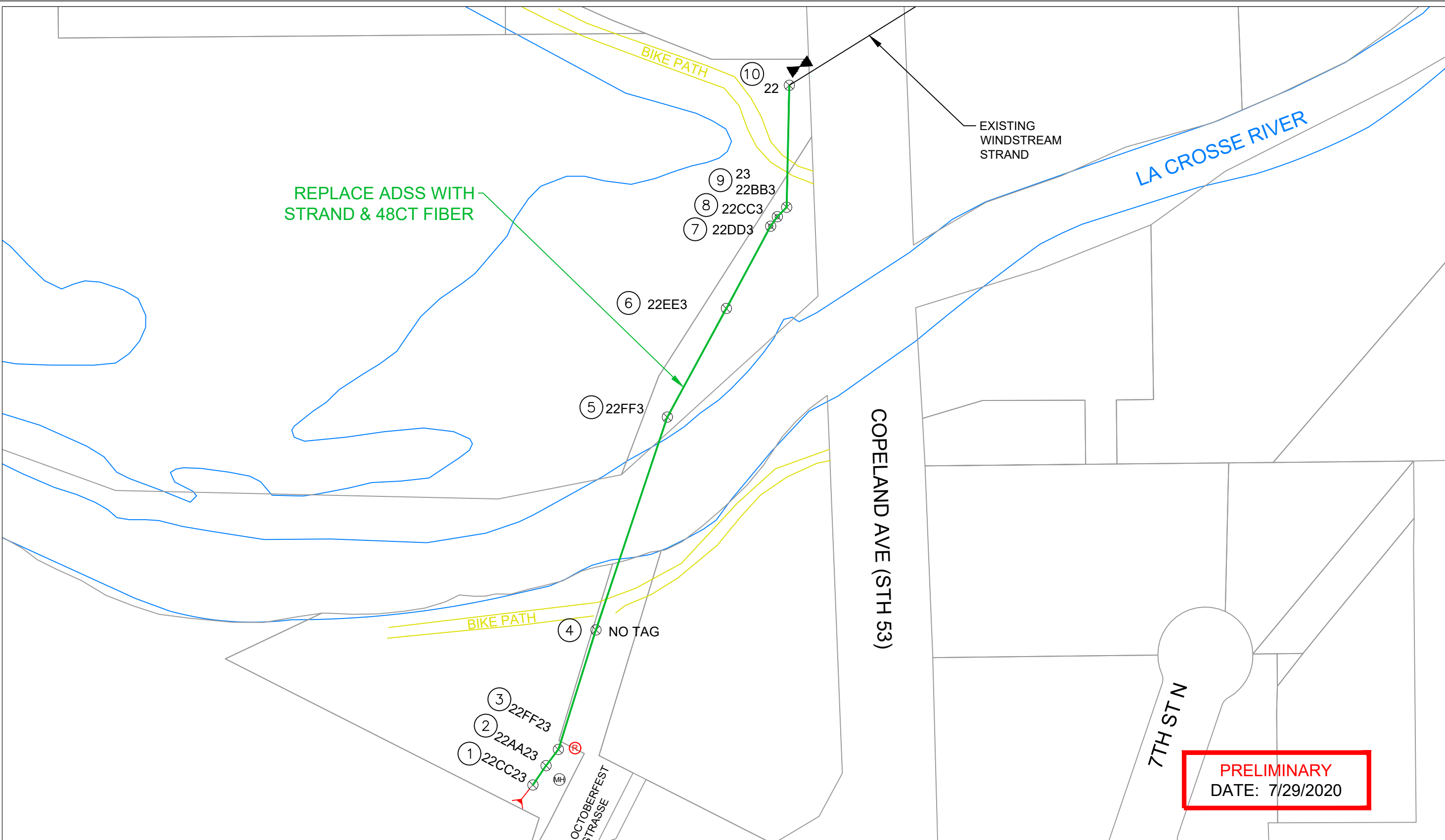
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REV	DATE	DESCRIPTION	ENG	DRAFTER

CONSTRUCTION DRAWING

JOB: 718602105
PROJECT: EMERGENCY FIBER REPAIR
LOCATION: LACROSSE, WI

DESIGNED BY:	
DRAWN BY:	NWT
SCALE:	1" = 30'
DATE DRAWN:	7/29/2020
FILE NAME:	CONSTRUCTION DRAWINGS
JOB NUMBER:	718602105
SHEET:	1
TOTAL SHEETS:	1



REPLACE ADSS WITH STRAND & 48CT FIBER

PRELIMINARY
DATE: 7/29/2020



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REV	DATE	DESCRIPTION	ENG	DRAFTER

CONSTRUCTION DRAWING
JOB: 718602105
PROJECT: EMERGENCY FIBER REPAIR
LOCATION: LACROSSE, WI

PROJECT INFORMATION:

TOTAL SURVEYED AERIAL FOOTAGE: xxaerialxx
TOTAL SURVEYED UG FOOTAGE: xxugxx
TOTAL FIBER MILES: xxtotalxx

CONTACT NAMES AND NUMBERS:

PROJECT MANAGER:
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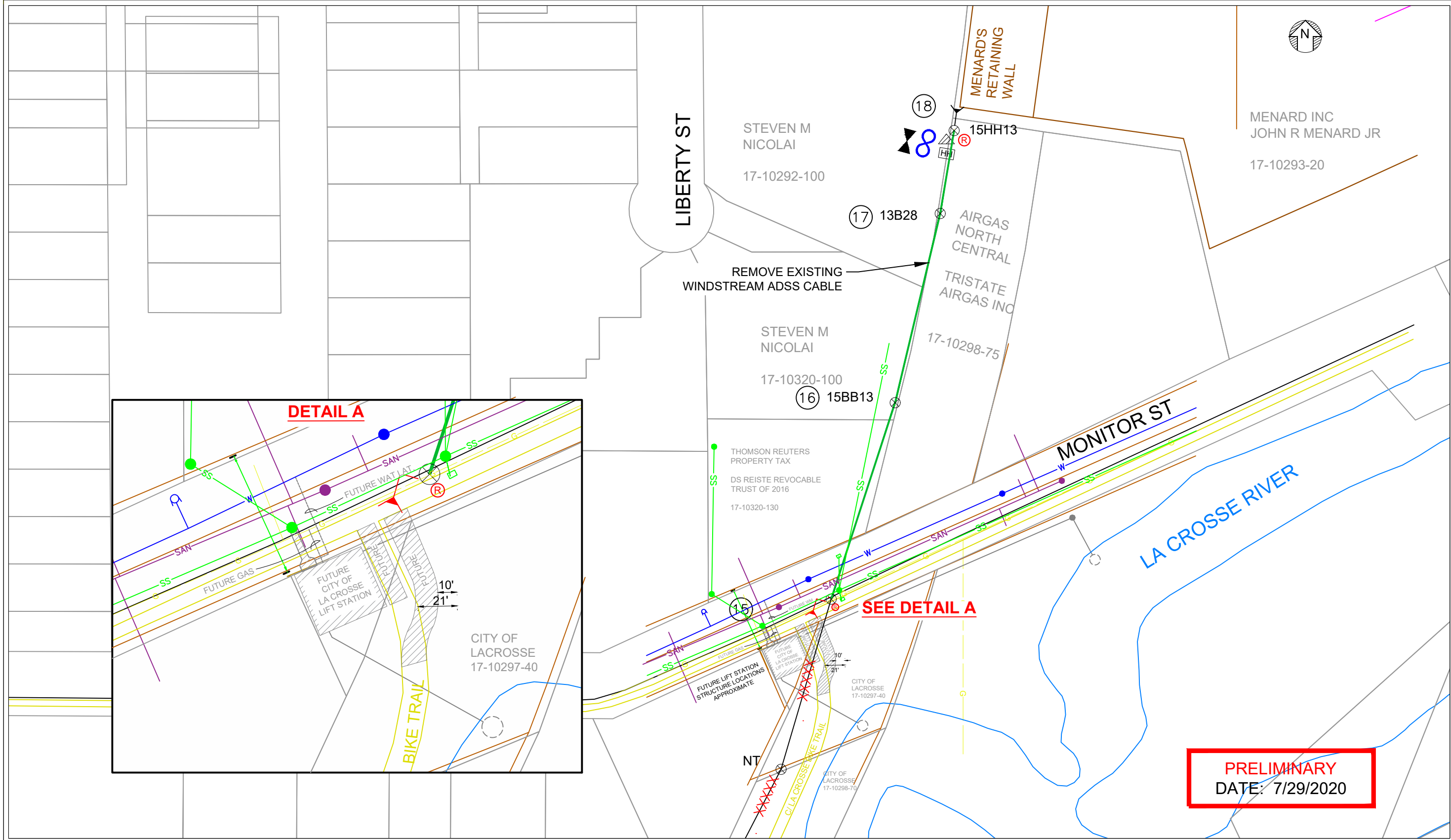
DRAWING LIST:

SHEET	DESCRIPTION	SHEET	DESCRIPTION	SHEET	DESCRIPTION
CO1	COVER SHEET				
CO2	ROUTE OVERVIEW				
CO3	LEGEND AND GENERAL NOTES				
CO4	RAKE SHEET				
1-X	CONSTRUCTION DRAWINGS				

DRAWING STATUS

DATE	DESCRIPTION	DRAFTER	SET

DESIGNED BY:
DRAWN BY: NWT
SCALE: 1" = 100'
DATE DRAWN: 7/29/2020
FILE NAME:
CONSTRUCTION DRAWINGS
JOB NUMBER:
718602105
SHEET: TOTAL SHEETS:
5 13



PRELIMINARY
DATE: 7/29/2020

WINDSTREAM, INC.
13935 BISHOPS DRIVE
BROOKFIELD, WI 53005

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REV	DATE	DESCRIPTION	ENG	DRAFTER

CONSTRUCTION DRAWING
JOB: 718602105
PROJECT: EMERGENCY FIBER REPAIR
LOCATION: LACROSSE, WI

DESIGNED BY: _____
DRAWN BY: NWT
SCALE: 1" = 100'
DATE DRAWN: 7/29/2020
FILE NAME: CONSTRUCTION DRAWINGS
JOB NUMBER: **718602105**
SHEET: 5 TOTAL SHEETS: 13

PROJECT INFORMATION:

TOTAL SURVEYED AERIAL FOOTAGE: xxaerialxx

TOTAL SURVEYED UG FOOTAGE: xxugxx

TOTAL FIBER MILES: xxtotalxx

CONTACT NAMES AND NUMBERS:

PROJECT MANAGER:
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C: (920) 461-9825
eric.becker@windstream.com

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SHEET	DESCRIPTION	SHEET	DESCRIPTION	SHEET	DESCRIPTION
CO1	COVER SHEET				
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CO3	LEGEND AND GENERAL NOTES				
CO4	RAKE SHEET				
1-X	CONSTRUCTION DRAWINGS				

DRAWING STATUS

DATE	DESCRIPTION	DRAFTER	SET