

REPORT INDEX

(S.N. 056-3006)

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BRIDGE INSPECTION DOCUMENTATION & MAINTENANCE

STRUCTURE NUMBER: 056-3006

INSPECTION TYPE: Routine

DATE: 10/15/2020

INSPECTORS PRESENT:

Mike Queckboerner

TIME REQUIRED: (Approx. # of hours to complete the field inspection)

1:30 (Hours : Minutes)

ACCESS EQUIPMENT: (List any equipment used to inspect the bridge)

Chest/Hip Waders Tall Ladder

Traffic Control Snooper

Other:

MAINTENANCE ITEMS:

PHOTO REF. NO.

REPAIR AGGREGATE SHOULDER..... 3 & 4

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SN: 056-3006	District: 1	Spans: 1	Appr. Spans: 0	Skew: 14	ADT: 6650	Truck Pct: 10
ADT Un:	Maint. Co: MCHENRY	Twsp: GREENWOOD			Status: OPEN - NO RESTRICT	
Facility Carried: CHARLES RD			Feature Crossed: Slough Creek			
Location: AT NELSON RD		Municipality:		Team/Sub: /		Insp/Rte:
Bridge Name:			Material & Type: PRESTRESS CONCRETE/BOX BEAM OR GIRDER-MULTI			
Insp. Intervals Routine: 24	Fracture Critical: 0	Underwater: 0	Special: N/A	Element Level: 24		

90 - Inspection Date: / /	90C - Temp. (°F)	90B1 - In-Depth	<input type="checkbox"/>
Is Delinquent: <input type="checkbox"/>	Reason:		
90A - Agency Program Manager:		90A3 - Consultant Program Manager:	
90A1 - Team Leader:		90A2 - Inspector:	

90B - Inspection Remarks:

Previous Inspection	#58) +/-8" of bituminous overlay may exceed allowable design overlay thickness. #59) 2 spalls with exposed stirrup bars at mid span of north beam. Several keyways leaking. #60) Large spall with exposed rebar at north end of west abutment stem.- Horizontal and vertical cracks with leaching at north and south abutment stems.- All wingwalls with spalling and exposed rebar. #61) Moderate debris buildup under structure.- Washout of aggregate at northwest shoulder and pavement
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Resources

Time to Inspect (H:M): 1:0	:	Traffic Control:		Boat:		Waders: W	Snooper:	
Ladder:		Manlift:		Bucket Truck:		Other:		

Inspector's Appraisals

	Prev	New	Comments
58 - Deck Condition:	5		
59 - Superstructure Cond:	5		
60 - Substructure Cond:	5		
62 - Culvert Condition:	N		
61 - Channel Condition:	8		
71 - Waterway Adequacy:	9		
72 - Approach Rdw Align:	8		
111 - Pier Navig Protection:	N		

90B - Inspector Remarks:

Routine Inspection Report

Structure Number: 0563006

Additional Inspection Data

36A – Bridge Railing Adequacy:	Prev	New	2		Rail Types:
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Approach Guardrail Adequacy:	Prev	New	2	36B – Transitions:	Prev	New	2	36C – Guardrail:	Prev	New	2	36D – Ends:	Prev	New
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108A – Wearing Surface Type:	Prev	New	G	If "L-Other" Describe: _____
108B – Type of Membrane:			A	If "E-Other" Describe: _____
108C – Deck Protection:			J	If "I-Other" Describe: _____
108D – Total Deck Thickness (in):			24.0	

59A – Paint Date (Mo/Yr):		Prev	New	/
59B – Paint Type:				Color: Fascia - ____: Inter. - ____: Railing - ____. _____ _____

59C – Utilities Attached:	NNN	Prev	New	If "B-Other" Describe: _____
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Weight Limit Posting:	70A2 – Single Unit Vehicles:	Prev	New	Ton
	70B2 – Combination Type 3S-1 (3 or 4 axles):			Ton
	70C2 – Combination Type 3S-2 (5 or more axles):			Ton
	70D2 – One Truck at a Time:			0

Joint Openings (In.) _____

90B – Inspector Remarks Continued:

	Signature	Date
Inspection Team Leader:		/ /
Consultant Program Manager:		/ /
Agency Program Manager:		/ /

**Illinois Department of Transportation
Structures Information Management System
Master Structure Report (S-107)**

Date: 12/31/2020

Page 1

Structure Number: 056-3006 District: 1

Inventory Data

Facility Carried:	CHARLES RD	Bridge Name:		Sufficiency Rating:	63.1	Structure Length:	31.0
Feature Crossed:	Slough Creek	Location:	AT NELSON RD	HBP Eligible:	Yes	AASHTO Bridge Length:	28.5
Bridge Remarks:				Replaced By:		Length of Long Span:	31.0
Bridge Status:	1 OPEN - NO RESTRICT	StatusDate:	4/1/1988	Replaces:		Bridge Roadway Width:	40.0
Status Remarks:				Last Update Date:	01/15/2013	Appr Roadway Width:	32.0
Maint County:	056 MCHENRY	Maint Township:	09 GREENWOOD	Parallel Structure:	None	Deck Width:	40.0
Maint Responsibility:	03 COUNTY			Multi-Level Structure Nbr:		Sidewalk Width Right:	0.0
Service On/Under:	1 HIGHWAY / 5 WATERWAY			Skew Direction:	Right	Sidewalk Width Left:	0.0
Reporting Agency:	3 COUNTY			Skew Angle:	14 D	Navigation Control:	0 No
Main Span Matl/Type:	5 PRESTRESS CONCRETE / 05 BOX BEAM OR GIRDER-MULTIPLE			Structure Flared:	No	Navigation Horiz Clear:	0
Nbr Of Main Spans:	1	Nbr Of Approach Spans:	0	Historical Significance:	No	Navigation Vert Clear:	0
Approaches				Border Bridge State:		Culvert Fill Depth:	0.0
Near #1 Matl/Type:				Bdr State SN:		Number Culvert Cells:	0
Near #2 Matl/Type:				Bdr State % Responsibility:	0	Culvert Opening Area:	0.0
Far #1 Matl/Type:				Structural Steel Wt:	0	Culvert Cell Height:	0.00
Far #2 Matl/Type:				Substructure Material:	5N	Culvert Cell Width:	0.00
Median Width/Type:	0 Ft / 0 None			Rated By:	3 Consultant	Rate Method:	6 LOAD FACTOR (LF) REP
Guardrail Type L/R:	0 None / 0 None	Inventory Rating:	1.050 (37)	Load Rating Date:	03/20/2018	***Railroad Crossing Info***	
Toll Facility Indicator:	0 No Toll	Operating Rating:	1.750 (63)			Crossing 1 Nbr:	
Latitude:	42.36493030	Longitude:	88.47286019	Design Load:	02 HS20	Crossing 1 Nbr:	
Deck Structure Type:	E PCAST PRES CN DK BM	Deck Structure Thickness:	17.0	SD:	Y	FO:	N
Sidewalks Under Structure:	0 None					RR Lateral Underclear:	0.0
						RR Vertical Underclear:	0 Ft 0 In

Key Route On Data

Key Route Nbr:	FEDERAL-AID SECONDARY	0026	Station:	10.0900
Appurtenances	Main Route	00000	Segment:	
Inventory County:	056 MCHENRY	Linked:	Y	
Township/Road Dist	09 GREENWOOD	Natl. Hwy System:	Not on NHS	
Municipality	0000	Inventory Direction:		
Urban Area:	None	Curr AADT Yr/Count:	2017 / 6650	
Functional Class:	5 MAJOR COLLECTOR	Est Truck Percentage:	10 %	
** CLEARANCES **	South/East	North/West	Number Of Lanes:	2
Max Rdwy Width:	40.0		One Or Two Way:	2 Two-Way
Horizontal:	40.0	0.0	Bypass Length:	4
Min Vertical:	99Ft 11In	00Ft 00In	Future AADT Yr/Cnt:	2032 / 7861
10 Ft Vertical:	99Ft 11In	00Ft 00In	Designated Truck Rte:	NONE
Lateral:			Special Systems:	No

Key Route Under Data

		Station:	
		Segment:	
		Linked:	
		Natl. Hwy System:	
		Inventory Direction:	
		Curr AADT Yr/Count:	/
		Est Truck Percentage:	%
		Number Of Lanes:	
		One Or Two Way:	
		Bypass Length:	
		Future AADT Yr/Cnt:	/
		Designated Truck Rte:	
		Special Systems:	

*** Marked Route On Data ***

	Designation	Kind	Number
Route #1:	1 Mainline	4 FAS, CH, or TR's Unmarked	
Route #2:	1 Mainline		
Route #3:	1 Mainline		

*** Marked Route Under Data ***

	Designation	Kind	Number

**Illinois Department of Transportation
Structures Information Management System
Master Structure Report (S-107)**

Date: 12/31/2020

Page 2

Structure Number: 056-3006 District: 1

Data Related to Inspection Information

Inspection Intervals
 Routine NBIS: MOS Underwater: MOS
 Fracture Critical: MOS Special: MOS

*** Maximum Allowable Posting Limits ***
 One Truck At A Time: Tons
 Single Unit Vehicles: Tons
 Combination Type 3S-1: Tons
 Combination Type 3S-2: Tons

Bridge Posting Level: No Posting Required

Inspection/Appraisal Information

Inspection Date:	<input type="text" value="10/15/2020"/>	Inspection Temperature:	<input type="text" value="50"/> Deg. F	Insp by (Name):	<input type="text" value="Queckboerner, Mike"/>	** Actual Posted Limits **
Deck:	<input type="text" value="4"/>	POOR CONDITION - ADVANCED DETERIORATION		Insp by (Name):	<input type="text" value="Queckboerner, Mike"/>	Single Unit Vehicles: <input type="text" value=""/> Tons
Superstructure:	<input type="text" value="4"/>	POOR CONDITION - ADVANCED DETERIORATION		Utilities Attached:	<input type="text" value="N"/> N/A	Combination Type 3S-1: <input type="text" value=""/> Tons
Substructure:	<input type="text" value="5"/>	FAIR CONDITION - MINOR SECTION LOSS, CRACKS			<input type="text" value="N"/> N/A	Combination Type 3S-2: <input type="text" value=""/> Tons
Culvert:	<input type="text" value="N"/>	NOT APPLICABLE			<input type="text" value="N"/> N/A	One Truck At A Time: <input type="text" value="0"/>
Channel and Protection:	<input type="text" value="8"/>	VERY GOOD CONDITION - NO PROBLEMS NOTED		Deck Wearing Surf:	<input type="text" value="G"/> BITUMINOUS OVERLAY	Last Paint Type:
Structural Evaluation:	<input type="text" value="4"/>	MINIMUM ADEQUACY TO BE LEFT IN PLACE		Deck Membrane:	<input type="text" value="A"/> WATERPROOF MEM SYST	<input type="text" value=""/>
Deck Geometry:	<input type="text" value="5"/>	BETTER THAN ADEQUATE TO BE LEFT IN PLACE		Deck Protection:	<input type="text" value="J"/> NONE	<input type="text" value=""/>
Underclearance-Vert/Lat.:	<input type="text" value="N"/>	NOT APPLICABLE		Total Deck Thick:	<input type="text" value="24.0"/>	<input type="text" value=""/>
Waterway Adequacy:	<input type="text" value="9"/>	SUPERIOR TO PRESENT DESIRABLE CRITERIA		Last Paint Date:	<input type="text" value=""/>	<input type="text" value=""/>
Approach Roadway Align:	<input type="text" value="8"/>	EQUAL TO PRESENT DESIRABLE CRITERIA		Inspection Remarks:	<input allowable="" b="" colli"="" design="" exceed="" ituminous="" may="" of="" overlay="" severe="" thickness.-="" type="text" value="Item #58 & #59 - Longitudinal crack at 3rd beam in from south at east end of be am.- 2 spalls with exposed stirrup bars at mid span of north beam.- ± 8"/>	
Bridge Railing Appraisal:	<input type="text" value="2"/>	Doesn't Meet Standards				
Approach Guardrail:	<input type="text" value="222"/>	<input type="text" value="Not Acceptable"/> <input type="text" value="Not Acceptable"/> <input type="text" value="Not Acceptable"/>				
Pier Navig Protection:	<input type="text" value="N"/>	N/A				

Underwater Inspection/Appraisal Information

Inspection Date:
 Temperature:
 Inspection Method:
 Inspected By:
 Inspected By: Appraisal Rating:
 Inspection Remarks:

Scour Critical Information

Rating: CALCULATED SCOUR ABOVE FOOTING
 Analysis Date: Evaluation Method: Computer Calculation
 Analysis By:

Miscellaneous

Fracture Critical Members: No
 Microfilm Data Recorded: No

Construction Information

Year:	<input type="text" value="1947"/> Original	<input type="text" value="1984"/> Reconstructed
Route:	<input type="text" value="FAS 26"/> Sta: <input type="text" value="415+58.1"/>	<input type="text" value="FAS 26"/> Sta: <input type="text" value="415+58.1"/>
Section Nbr:	<input type="text" value="82-00106-00-BR"/>	<input type="text" value="82-00106-00-BR"/>
Contract Nbr:	<input type="text" value=""/>	<input type="text" value=""/>
Fed Aid Pr #:	<input type="text" value="BR-S26 0102000"/>	<input type="text" value="BR-S26 0102000"/>
Built By:	<input type="text" value="3"/> COUNTY AGENCY	<input type="text" value="0"/> UNKNOWN

Proposed Improvement

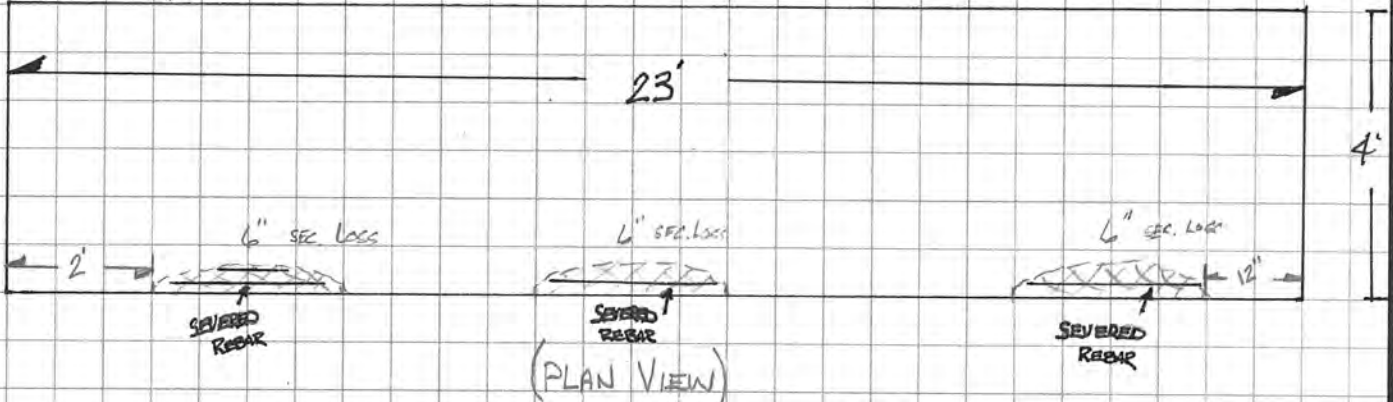
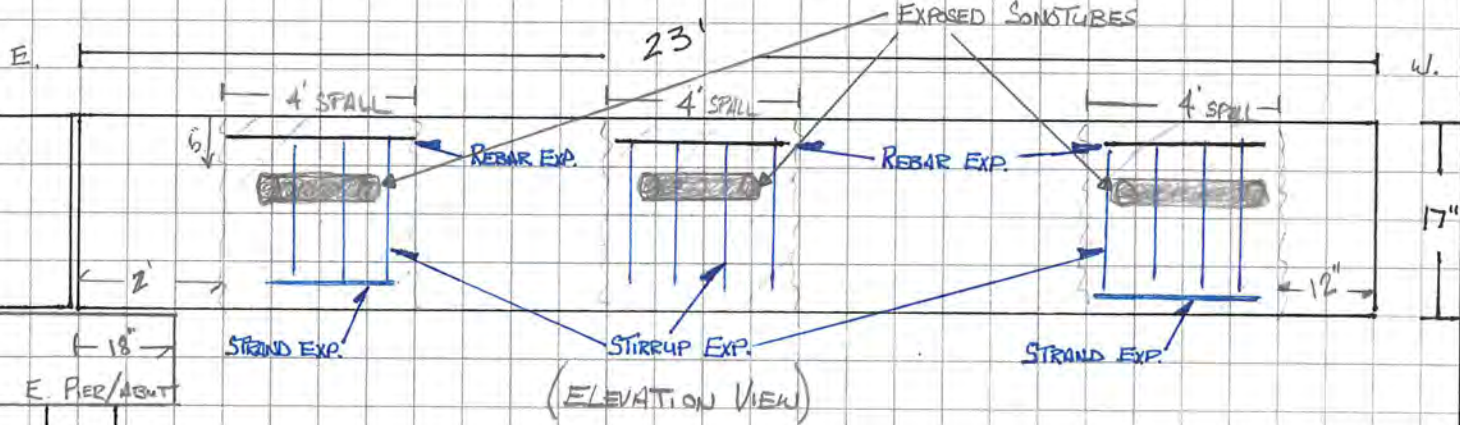
Cost Estimate Year:	<input type="text" value=""/>	Length:	<input type="text" value=""/>	*** Costs in Dollars ***
Type of Work:	<input type="text" value=""/>	Bridge Cost:	<input type="text" value=""/>	
Done By:	<input type="text" value=""/>	Roadway Cost:	<input type="text" value=""/>	
Remarks:	<input type="text" value=""/>	Total Project Cost:	<input type="text" value=""/>	



WILLETT HOFMANN
& ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING

JOB McHENRY Co. JOB # 1194D18
SHEET NO. 1 OF 1
CALCULATED BY MQ DATE 11-13-18
CHECKED BY _____ DATE _____
SCALE 05/6 - 300/6

NORTH BEAM FASCIA (2020 SAME)
WEST SPAN



EAST SPAN

CENTER SPAN

WEST SPAN

ELEVATION

2020 MCHENRY COUNTY COUNTY & TOWNSHIP BRIDGE INSPECTION PROGRAM

REPORT SUMMARY

STRUCTURE NUMBER:	056-3006
ROAD NAME:	Charles Road
FEATURE CROSSED:	Slough Creek
TOWNSHIP:	Greenwood
COMMENTS:	<ul style="list-style-type: none"> - Longitudinal crack at 3rd beam in from south at east end of beam. - 2 spalls with exposed stirrup bars at mid span of north beam. - $\pm 8''$ of bit. overlay may exceed allowable design overlay thickness. - Severe collision damage to north beam in west approach span causing large areas of concrete section loss at 3 bridge post locations. - Large spall and heavy scaling with exposed rebar at north end of west abutment stem. - Map cracking with leaching at north and south abutment stems, all wingwalls with spalling and exposed rebar.

PHOTOS

Photo 1	
Looking west.	

2020 MCHENRY COUNTY COUNTY & TOWNSHIP BRIDGE INSPECTION PROGRAM

STRUCTURE NUMBER: 056-3006

Photo 2

Viewing temporary
concrete barrier wall.



Photo 3

Viewing large washout in
aggregate shoulder.



2020 MCHENRY COUNTY COUNTY & TOWNSHIP BRIDGE INSPECTION PROGRAM

STRUCTURE NUMBER: 056-3006

Photo 4

Viewing large washout in
aggregate shoulder.



Photo 5

Viewing collision
damage to outer beams.



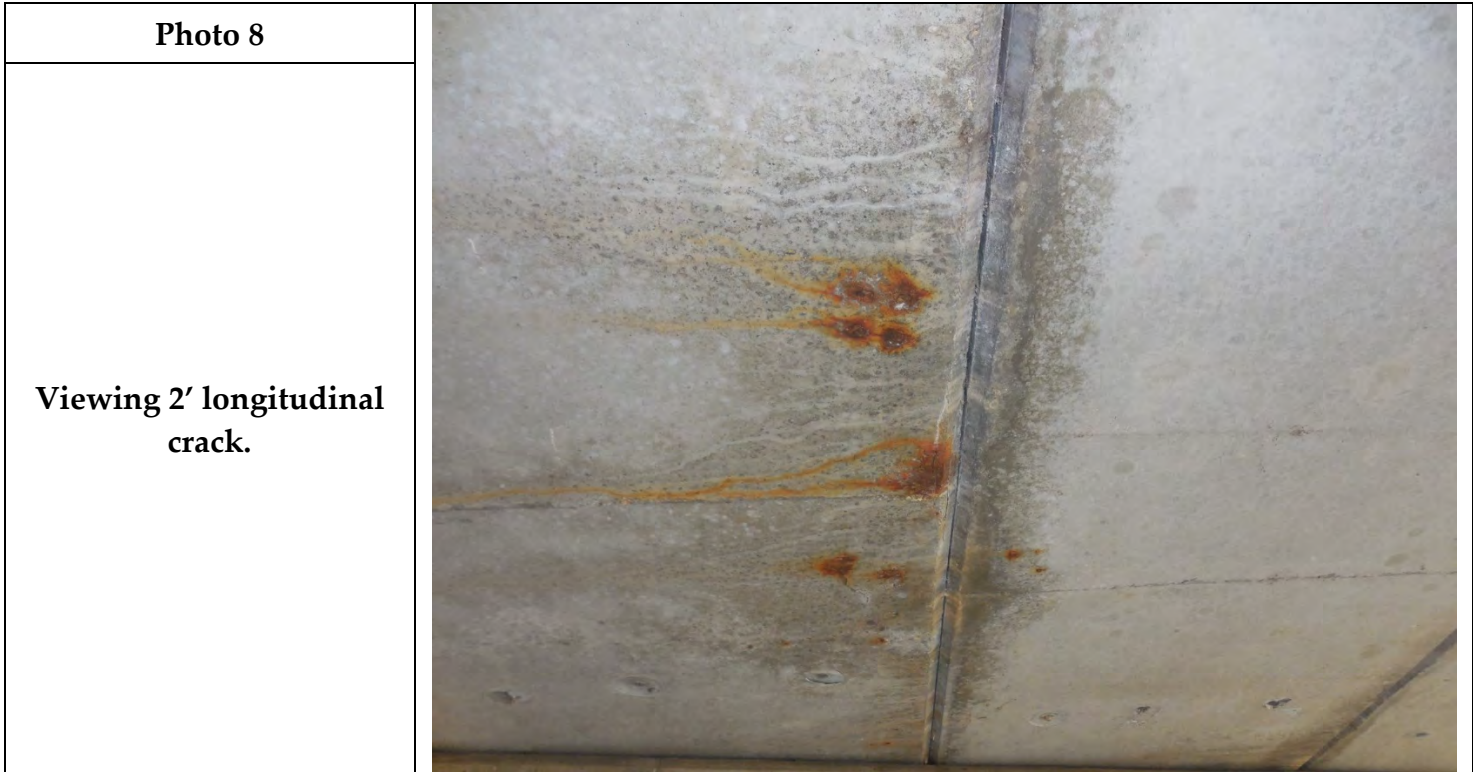
**2020 MCHENRY COUNTY
COUNTY & TOWNSHIP
BRIDGE INSPECTION PROGRAM**

STRUCTURE NUMBER:	056-3006
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Photo 10
<p>Viewing cracks and heavy scaling in abutment stem.</p>



Photo 11
<p>Viewing cracks in abutment stem.</p>



**2020 MCHENRY COUNTY
COUNTY & TOWNSHIP
BRIDGE INSPECTION PROGRAM**

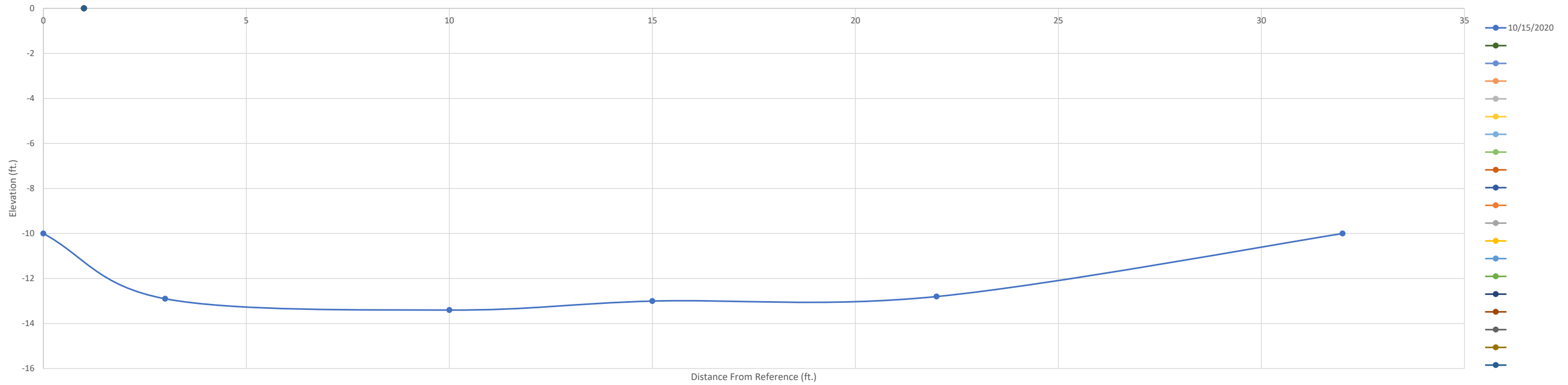
STRUCTURE NUMBER:	056-3006
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County: McHenry
S.N: 056-3006
Roadway: Charles Road
Stream: Slough Creek

Upstream Channel Cross Section



Downstream Channel Cross Section

