

	Ohio Department of Transportation Ellis Reporting	User: dwittman
	GEA/LAK CU FY2023 (PID: 108471)	Date: 05/28/2020

General Project Information

PID:	108471	Project Status:	Active
Project Name:	GEA/LAK CU FY2023	Closed Status:	
Project Type:	Let	PDP Classification:	Path 2
Letting Type:	ODOT Let	Environmental Doc Type:	C2
Contract Type:	Standard Build	Air Quality:	Exempt
Letting Schedule (ODOT Let):	12 Wk Bid	Contract Features:	
Non Chargeable Type:		Project Report Codes:	<ul style="list-style-type: none"> TMS 03 Culverts D12 PM EMK SBE Set-Aside Project
Work Categories:	Preservation <ul style="list-style-type: none"> Culvert Preservation (Primary) 		
Description:	Replace 8 deficient culverts in Geauga and Lake Counties.		
Project Challenges:			

Location Information

District:	D12	Congressional District:	<ul style="list-style-type: none"> 14 (Primary)
Locale:	GEA	MPO/RTPO/Large City:	<ul style="list-style-type: none"> NOACA (Primary)
Project Termini:	Various		

Project Conduit Information

CFN	Old CFN	Status	Inlet Type	NLFID	Project Classification	General Appraisal	Structure Treated	GA Improved	Treatment Types
1826680	284221429	Active	Open	SGEAUS00422**C 14.294	N P 99999	4 - Poor	Yes	Yes	<ul style="list-style-type: none"> Replace Conduit
1826682	284221498	Active	Open	SGEAUS00422**N 14.997	N P 99999	4 - Poor	Yes	Yes	<ul style="list-style-type: none"> Replace Conduit
1862411	280860010	Active	Closed	SGEASR00086**C 0.376	O C 99999	4 - Poor	Yes	Yes	<ul style="list-style-type: none"> Replace Conduit
1819283	280870040	Active	Open	SGEASR00087**C 0.414	O M 99999	4 - Poor	Yes	Yes	<ul style="list-style-type: none"> Replace Conduit
1814183	287000171	Active	Open	SGEASR00700**C 1.719	O C 99999	4 - Poor	Yes	Yes	<ul style="list-style-type: none"> Replace Conduit
1811799	287000763	Active	Open	SGEASR00700**C 7.607	O C 99999	4 - Poor	Yes	Yes	<ul style="list-style-type: none"> Replace Conduit
1827358	430842718	Active	Open	SLAKSR00084**C 27.097	O C 17668	3 - Serious	Yes	Yes	<ul style="list-style-type: none"> Replace Conduit
1802284	436080314	Active	Unknown	SLAKSR00608**C 3.098	O C 17668	4 - Poor	Yes	Yes	<ul style="list-style-type: none"> Replace Conduit

Project Detailed Conduit Information

- 1826680 -- GEA US 422 14.294

<p>• 1826680 -- GEA US 422 14.294</p>															
Culvert File Number:	1826680	Old CFN:	284221429												
Inlet Type:	Open	Status:	Active												
District:	12	NLFID:	SGEAUS00422**C												
Route:	422	County:	GEA												
County Log Point:	14.294	Route Type:	US												
Structure Treated:	Yes	General Appraisal:	4-Poor												
Treatment Types:	• Replace Conduit	GA Improved:	Yes												
Project Classification(s):	<table border="1"> <thead> <tr> <th>Name</th> <th>Federal Aid System</th> <th>Functional Classification</th> <th>Urbanized Area</th> <th>Population Size</th> </tr> </thead> <tbody> <tr> <td>N P 99999</td> <td>NHS Non-Interstate</td> <td>Other Principal Arterial</td> <td>RURAL = Population less than 5,000</td> <td>Rural (Population < 5,000)</td> </tr> </tbody> </table>					Name	Federal Aid System	Functional Classification	Urbanized Area	Population Size	N P 99999	NHS Non-Interstate	Other Principal Arterial	RURAL = Population less than 5,000	Rural (Population < 5,000)
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Description:															
<p>• 1826682 -- GEA US 422 14.997</p>															
Culvert File Number:	1826682	Old CFN:	284221498												
Inlet Type:	Open	Status:	Active												
District:	12	NLFID:	SGEAUS00422**N												
Route:	422	County:	GEA												
County Log Point:	14.997	Route Type:	US												
Structure Treated:	Yes	General Appraisal:	4-Poor												
Treatment Types:	• Replace Conduit	GA Improved:	Yes												
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N P 99999	NHS Non-Interstate	Other Principal Arterial	RURAL = Population less than 5,000	Rural (Population < 5,000)											
Description:															
<p>• 1862411 -- GEA SR 86 0.376</p>															
Culvert File Number:	1862411	Old CFN:	280860010												
Inlet Type:	Closed	Status:	Active												
District:	12	NLFID:	SGEASR00086**C												
Route:	86	County:	GEA												
County Log Point:	0.376	Route Type:	SR												
Structure Treated:	Yes	General Appraisal:	4-Poor												
Treatment Types:	• Replace Conduit	GA Improved:	Yes												
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O C 99999	Other Federal-Aide Highway	Major Collector	RURAL = Population less than 5,000	Rural (Population < 5,000)											
Description:															
<p>• 1819283 -- GEA SR 87 0.414</p>															

<p>• 1819283 -- GEA SR 87 0.414</p>					
Culvert File Number:	1819283	Old CFN:	280870040		
Inlet Type:	Open	Status:	Active		
District:	12	NLFID:	SGEASR00087**C		
Route:	87	County:	GEA		
County Log Point:	0.414	Route Type:	SR		
Structure Treated:	Yes	General Appraisal:	4-Poor		
Treatment Types:	• Replace Conduit	GA Improved:	Yes		
Project Classification(s):	Name	Federal Aid System	Functional Classification	Urbanized Area	Population Size
	O M 99999	Other Federal-Aide Highway	Minor Arterial	RURAL = Population less than 5,000	Rural (Population < 5,000)
Description:					
<p>• 1814183 -- GEA SR 700 1.719</p>					
Culvert File Number:	1814183	Old CFN:	287000171		
Inlet Type:	Open	Status:	Active		
District:	12	NLFID:	SGEASR00700**C		
Route:	700	County:	GEA		
County Log Point:	1.719	Route Type:	SR		
Structure Treated:	Yes	General Appraisal:	4-Poor		
Treatment Types:	• Replace Conduit	GA Improved:	Yes		
Project Classification(s):	Name	Federal Aid System	Functional Classification	Urbanized Area	Population Size
	O C 99999	Other Federal-Aide Highway	Major Collector	RURAL = Population less than 5,000	Rural (Population < 5,000)
Description:					
<p>• 1811799 -- GEA SR 700 7.607</p>					
Culvert File Number:	1811799	Old CFN:	287000763		
Inlet Type:	Open	Status:	Active		
District:	12	NLFID:	SGEASR00700**C		
Route:	700	County:	GEA		
County Log Point:	7.607	Route Type:	SR		
Structure Treated:	Yes	General Appraisal:	4-Poor		
Treatment Types:	• Replace Conduit	GA Improved:	Yes		
Project Classification(s):	Name	Federal Aid System	Functional Classification	Urbanized Area	Population Size
	O C 99999	Other Federal-Aide Highway	Major Collector	RURAL = Population less than 5,000	Rural (Population < 5,000)
Description:					
<p>• 1827358 -- LAK SR 84 27.097</p>					

<p>• 1827358 -- LAK SR 84 27.097</p>														
<p>Culvert File Number: 1827358</p> <p>Inlet Type: Open</p> <p>District: 12</p> <p>Route: 84</p> <p>County Log Point: 27.097</p> <p>Structure Treated: Yes</p> <p>Treatment Types: • Replace Conduit</p>	<p>Old CFN: 430842718</p> <p>Status: Active</p> <p>NLFID: SLAKSR00084**C</p> <p>County: LAK</p> <p>Route Type: SR</p> <p>General Appraisal: 3-Serious</p> <p>GA Improved: Yes</p>	<p>Project Classification(s):</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Federal Aid System</th> <th>Functional Classification</th> <th>Urbanized Area</th> <th>Population Size</th> </tr> </thead> <tbody> <tr> <td>O C 17668</td> <td>Other Federal-Aide Highway</td> <td>Major Collector</td> <td>CLEVELAND</td> <td>Population > 200,000</td> </tr> </tbody> </table>			Name	Federal Aid System	Functional Classification	Urbanized Area	Population Size	O C 17668	Other Federal-Aide Highway	Major Collector	CLEVELAND	Population > 200,000
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O C 17668	Other Federal-Aide Highway	Major Collector	CLEVELAND	Population > 200,000										
<p>Description:</p>														
<p>• 1802284 -- LAK SR 608 3.098</p>														
<p>Culvert File Number: 1802284</p> <p>Inlet Type: Unknown</p> <p>District: 12</p> <p>Route: 608</p> <p>County Log Point: 3.098</p> <p>Structure Treated: Yes</p> <p>Treatment Types: • Replace Conduit</p>	<p>Old CFN: 436080314</p> <p>Status: Active</p> <p>NLFID: SLAKSR00608**C</p> <p>County: LAK</p> <p>Route Type: SR</p> <p>General Appraisal: 4-Poor</p> <p>GA Improved: Yes</p>	<p>Project Classification(s):</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Federal Aid System</th> <th>Functional Classification</th> <th>Urbanized Area</th> <th>Population Size</th> </tr> </thead> <tbody> <tr> <td>O C 17668</td> <td>Other Federal-Aide Highway</td> <td>Major Collector</td> <td>CLEVELAND</td> <td>Population > 200,000</td> </tr> </tbody> </table>			Name	Federal Aid System	Functional Classification	Urbanized Area	Population Size	O C 17668	Other Federal-Aide Highway	Major Collector	CLEVELAND	Population > 200,000
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O C 17668	Other Federal-Aide Highway	Major Collector	CLEVELAND	Population > 200,000										
<p>Description:</p>														

Project Detailed Conduit Inventory & Inspection Report Information

<p>• 1826680 -- GEA US 422 14.294</p>
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CULVERT INVENTORY REPORT

<p>CULVERT FILE NUMBER : 1826680</p>		<p>Old CFN : 284221429</p>	
<p>LOCATION AND ROUTE INFORMATION</p>			
1. District	12	2. County	GEAUGA
3. Route	US - 422	4. Straight line Mileage	34.770
5. Latitude	41.380620	6. Longitude	-81.120630
7. Special Designation	M - Mainline	8. Culvert Owner	S - State Department of Transportation
9. Maintenance Responsibility	S - State Department of Transportation	10. Entry Class	Class A (Non-Entry Inspection)
11. Status	A - Active	12. Feature Intersected	1.25 MILES EAST OF SR 700
<p>CULVERT</p>			
13. Installation Date	01/01/1921	14. Number of Cells	1
15. Broken Back	No	16. Culvert Shape	7 - Box Culvert
17. Culvert Material	1 - Plain or Reinforced Concrete	18. Span (Inches)	36
19. Rise (Inches)	24	20. Length (Feet)	32
21. Metal Gage Thickness 1		22. Metal Gage Thickness 2	
23. Type of Pipe Protection	1 - Unprotected	24. Slope of Pipe(Percent)	0.7

CHANNEL			
10. Channel Alignment	4-Poor	11. Protection	4-Poor
12. Culvert Waterway Blockage	8-Very Good	13. Scour*	4-Poor

APPROACHES			
14. Pavement	8-Very Good	15. Guardrail	-
16. Embankment	6-Satisfactory		

GENERAL APPRAISAL AND OPERATIONAL STATUS	4 - Poor condition - advanced section loss, deterioration, or spalling	A-Open, no restriction
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*Only a bold box for structures that are Headwall or Scour critical. These items should not govern the GA if they are not determined to be critical upon the judgement of the inspector.

COMMENTS: 14' inlet extension separated from original culvert. original culvert appears to have dropped/sttled and now slopes backwards. cracks in the sidewalls and roof. outlet headwall undermined. 3' deep scour at outlet. sink holes in embankments. invert abraded. Embankment erosion around outlet headwall. Inlet extension separated 6' from edge of pavement, outside pavement area.

INSPECTED BY: MB

DATE: 01/14/2020

- 1826682 -- GEA US 422 14.997

CULVERT INVENTORY REPORT

CULVERT FILE NUMBER : 1826682		Old CFN : 284221498	
LOCATION AND ROUTE INFORMATION			
1. District	12	2. County	GEAUGA
3. Route	US - 422	4. Straight line Mileage	
5. Latitude	41.376880	6. Longitude	-81.108100
7. Special Designation	M - Mainline	8. Culvert Owner	S - State Department of Transportation
9. Maintenance Responsibility	S - State Department of Transportation	10. Entry Class	Class A (Non-Entry Inspection)
11. Status	A - Active	12. Feature Intersected	EAST SIDE OF MUMFORD ROAD
CULVERT			
13. Installation Date	01/01/1921	14. Number of Cells	1
15. Broken Back	No	16. Culvert Shape	1 - Circular
17. Culvert Material	1 - Plain or Reinforced Concrete	18. Span (Inches)	12
19. Rise (Inches)	12	20. Length (Feet)	98
21. Metal Gage Thickness 1		22. Metal Gage Thickness 2	
23. Type of Pipe Protection	1 - Unprotected	24. Slope of Pipe(Percent)	1.3
25. Slope Direction	-	26. Skew (Degrees)	15
27. Skew Direction	-	28. Inlet End Treatment	1 - Full Height Concrete Headwall
29. Outlet End Treatment	9 - Manhole	30. Maximum Height of Cover (Feet)	4
31. Height of Inlet Headwall (Feet)	2	32. Inlet Headwall to EOP Distance (Feet)	1
33. Height of Outlet Headwall (Feet)		34. Outlet Headwall to EOP Distance (Feet)	
35. Drainage Area (Acres)	0	36. Drainage Discharge(CFS)	0
37. Abrasive Conditions	No	38. Abrasion Level	1

39. pH		40. Channel Protection (Inlet)	G - Grass or Brush (Naturally occurring)
41. Channel Protection (Outlet)	X - Not Applicable		
Inventory Modifications			
42. Modification Type	-	43. Year Modified	
44. Modification Material	1 - Plain or Reinforced Concrete	45. Modification Size (Inches)	0
46. Inlet Extension Year	1935	47. Inlet Extension Shape	1 - Circular
48. Inlet Extension Material	1 - Plain or Reinforced Concrete	49. Inlet Extension Span (Inches)	12
50. Inlet Extension Rise (Inches)	12	51. Metal Inlet Gage Thickness 1	0
52. Metal Inlet Gage Thickness 2		53. Inlet Extension Length (Feet)	14
54. Outlet Extension Year	1938	55. Outlet Extension Shape	1 - Circular
56. Outlet Extension Material	1 - Plain or Reinforced Concrete	57. Outlet Extension Span (Inches)	12
58. Outlet Extension Rise (Inches)	12	59. Metal Outlet Gage Thickness 1	0
60. Metal Outlet Gage Thickness 2		61. Outlet Extension Length (Feet)	40
COMMENTS: SEE GEA-422-13.04 SHEET 6/16 FOR ORIGINAL CONSTRUCTION. SEE GEA-422-14.82 SHEETS 6/95 AND 54/95 FOR EXTENSION.			
INVENTORIED BY: LM		DATE: 01/26/2015	

CULVERT INSPECTION REPORT

CULVERT FILE NUMBER 1826682 **CULVERT NUMBER** GEA 422 US - 14.997 **DISTRICT** 12
CO ROUTE ID SLM

Old CFN 284221498

SPAN 12 **SHAPE** Circular **MATERIAL** Plain or Reinforced Concrete **LENGTH** 98

SPECIAL DESIGNATION Mainline **ENTRY CLASS** Class A (Non-Entry Inspection) **NUMBER OF CELLS** 1

LATITUDE 41.376880 **LONGITUDE** -81.108100 **STATUS** Active

FEATURE INTERSECTION EAST SIDE OF MUMFORD ROAD

CULVERT			
1. Level of Inspection	X-Inspection from ends of culvert. (Non-entry)		
2. Material	4-Poor	3. Culvert Alignment	6-Satisfactory
4. Shape	-	5. Seams or Joints	6-Satisfactory
6. Slab	-	7. Abutments	-
8. Headwalls*	8-Very Good	9. End Structure	-

CHANNEL			
10. Channel Alignment	8-Very Good	11. Protection	8-Very Good
12. Culvert Waterway Blockage	8-Very Good	13. Scour*	8-Very Good

APPROACHES			

14. Pavement	8-Very Good	15. Guardrail	-
16. Embankment	8-Very Good		

GENERAL APPRAISAL AND OPERATIONAL STATUS	4 - Poor condition - advanced section loss, deterioration, or spalling	A-Open, no restriction
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*Only a bold box for structures that are Headwall or Scour critical. These items should not govern the GA if they are not determined to be critical upon the judgement of the inspector.

COMMENTS: Misalignment of pipe segments. broken clay tiles with infiltration. minor scaling on inlet headwall. Outlet structure not found.

INSPECTED BY: MB

DATE: 01/14/2020

• 1862411 -- GEA SR 86 0.376

CULVERT INVENTORY REPORT

CULVERT FILE NUMBER : 1862411		Old CFN : 280860010	
LOCATION AND ROUTE INFORMATION			
1. District	12	2. County	GEAUGA
3. Route	SR - 86	4. Straight line Mileage	10.426
5. Latitude	41.652620	6. Longitude	-81.095560
7. Special Designation	M - Mainline	8. Culvert Owner	S - State Department of Transportation
9. Maintenance Responsibility	S - State Department of Transportation	10. Entry Class	Class A (Non-Entry Inspection)
11. Status	A - Active	12. Feature Intersected	DRAINAGE DITCH
CULVERT			
13. Installation Date		14. Number of Cells	1
15. Broken Back	No	16. Culvert Shape	7 - Box Culvert
17. Culvert Material	1 - Plain or Reinforced Concrete	18. Span (Inches)	30
19. Rise (Inches)	20	20. Length (Feet)	28
21. Metal Gage Thickness 1		22. Metal Gage Thickness 2	
23. Type of Pipe Protection	1 - Unprotected	24. Slope of Pipe(Percent)	
25. Slope Direction	-	26. Skew (Degrees)	0
27. Skew Direction	-	28. Inlet End Treatment	7 - Catch Basin
29. Outlet End Treatment	1 - Full Height Concrete Headwall	30. Maximum Height of Cover (Feet)	1
31. Height of Inlet Headwall (Feet)		32. Inlet Headwall to EOP Distance (Feet)	
33. Height of Outlet Headwall (Feet)	3	34. Outlet Headwall to EOP Distance (Feet)	7
35. Drainage Area (Acres)		36. Drainage Discharge(CFS)	
37. Abrasive Conditions	Yes	38. Abrasion Level	2
39. pH		40. Channel Protection (Inlet)	N - None
41. Channel Protection (Outlet)	N - None		
Inventory Modifications			
42. Modification Type	-	43. Year Modified	
44. Modification Material	-	45. Modification Size (Inches)	
46. Inlet Extension Year		47. Inlet Extension Shape	-
48. Inlet Extension Material	-	49. Inlet Extension Span (Inches)	
50. Inlet Extension Rise (Inches)		51. Metal Inlet Gage Thickness 1	

52. Metal Inlet Gage Thickness 2		53. Inlet Extension Length (Feet)	
54. Outlet Extension Year		55. Outlet Extension Shape	-
56. Outlet Extension Material	-	57. Outlet Extension Span (Inches)	
58. Outlet Extension Rise (Inches)		59. Metal Outlet Gage Thickness 1	
60. Metal Outlet Gage Thickness 2		61. Outlet Extension Length (Feet)	
COMMENTS: Concrete cap is spalling at outlet abutment. Headwall at inlet is under snow this date. Concrete cap is spalling at outlet abutment. Headwall at inlet is under snow this date.			
INVENTORIED BY: NW		DATE: 06/01/2005	

CULVERT INSPECTION REPORT

CULVERT FILE NUMBER 1862411 **CULVERT NUMBER** GEA 86 SR - 0.376 **DISTRICT** 12
CO ROUTE ID SLM

Old CFN 280860010

SPAN 30 **SHAPE** Box Culvert **MATERIAL** Plain or Reinforced Concrete **LENGTH** 28

SPECIAL DESIGNATION Mainline **ENTRY CLASS** Class A (Non-Entry Inspection) **NUMBER OF CELLS** 1

LATITUDE 41.652620 **LONGITUDE** -81.095560 **STATUS** Active

FEATURE INTERSECTION DRAINAGE DITCH

CULVERT			
1. Level of Inspection	X-Inspection from ends of culvert. (Non-entry)		
2. Material	4-Poor	3. Culvert Alignment	6-Satisfactory
4. Shape	-	5. Seams or Joints	6-Satisfactory
6. Slab	-	7. Abutments	-
8. Headwalls*	8-Very Good	9. End Structure	8-Very Good

CHANNEL			
10. Channel Alignment	8-Very Good	11. Protection	4-Poor
12. Culvert Waterway Blockage	8-Very Good	13. Scour*	4-Poor

APPROACHES			
14. Pavement	8-Very Good	15. Guardrail	-
16. Embankment	6-Satisfactory		

GENERAL APPRAISAL AND OPERATIONAL STATUS	4 - Poor condition - advanced section loss, deterioration, or spalling	A-Open, no restriction
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*Only a bold box for structures that are Headwall or Scour critical. These items should not govern the GA if they are not determined to be critical upon the judgement of the inspector.

COMMENTS: 3?x5?x3? deep spall under the northbound lane. Remaining concrete behind spall is soft and punky-rusted rebar is exposed over entire spalled area. Remaining portion of ceiling under northbound lane, closer to outlet, delaminates with efflorescence-loose. 2? deep scour at outlet end. Minor embankment erosion around outlet headwall.

INSPECTED BY: MB

DATE: 01/06/2020

• 1819283 -- GEA SR 87 0.414

CULVERT INVENTORY REPORT

CULVERT FILE NUMBER : 1819283		Old CFN : 280870040	
LOCATION AND ROUTE INFORMATION			
1. District	12	2. County	GEAUGA
3. Route	SR - 87	4. Straight line Mileage	17.740
5. Latitude	41.458262	6. Longitude	-81.383780
7. Special Designation	M - Mainline	8. Culvert Owner	S - State Department of Transportation
9. Maintenance Responsibility	S - State Department of Transportation	10. Entry Class	Class A (Non-Entry Inspection)
11. Status	A - Active	12. Feature Intersected	UNKNOWN CREEK
CULVERT			
13. Installation Date	01/01/1929	14. Number of Cells	1
15. Broken Back	No	16. Culvert Shape	7 - Box Culvert
17. Culvert Material	1 - Plain or Reinforced Concrete	18. Span (Inches)	36
19. Rise (Inches)	36	20. Length (Feet)	51
21. Metal Gage Thickness 1		22. Metal Gage Thickness 2	
23. Type of Pipe Protection	1 - Unprotected	24. Slope of Pipe(Percent)	1.0
25. Slope Direction	-	26. Skew (Degrees)	0
27. Skew Direction	-	28. Inlet End Treatment	1 - Full Height Concrete Headwall
29. Outlet End Treatment	1 - Full Height Concrete Headwall	30. Maximum Height of Cover (Feet)	9
31. Height of Inlet Headwall (Feet)		32. Inlet Headwall to EOP Distance (Feet)	
33. Height of Outlet Headwall (Feet)		34. Outlet Headwall to EOP Distance (Feet)	
35. Drainage Area (Acres)	0	36. Drainage Discharge(CFS)	0
37. Abrasive Conditions	Yes	38. Abrasion Level	3
39. pH		40. Channel Protection (Inlet)	G - Grass or Brush (Naturally occurring)
41. Channel Protection (Outlet)	G - Grass or Brush (Naturally occurring)		
Inventory Modifications			
42. Modification Type	-	43. Year Modified	
44. Modification Material	-	45. Modification Size (Inches)	0
46. Inlet Extension Year		47. Inlet Extension Shape	-
48. Inlet Extension Material	-	49. Inlet Extension Span (Inches)	0
50. Inlet Extension Rise (Inches)	0	51. Metal Inlet Gage Thickness 1	0
52. Metal Inlet Gage Thickness 2		53. Inlet Extension Length (Feet)	0
54. Outlet Extension Year		55. Outlet Extension Shape	-
56. Outlet Extension Material	-	57. Outlet Extension Span (Inches)	0
58. Outlet Extension Rise (Inches)	0	59. Metal Outlet Gage Thickness 1	0
60. Metal Outlet Gage Thickness 2		61. Outlet Extension Length (Feet)	
COMMENTS: SEE GEA-87-0.00 SHEETS 4/16 AND 15/16. Inspect Every-Five Years			
INVENTORIED BY: LM		DATE: 02/09/2015	

CULVERT INSPECTION REPORT

CULVERT FILE NUMBER **1819283** CULVERT NUMBER GEA 87 SR - 0.414 DISTRICT 12
CO ROUTE ID SLM

Old CFN 280870040

SPAN 36 SHAPE Box Culvert MATERIAL Plain or Reinforced Concrete LENGTH 51

SPECIAL DESIGNATION Mainline ENTRY CLASS Class A (Non-Entry Inspection) NUMBER OF CELLS 1

LATITUDE 41.458262 LONGITUDE -81.383780 STATUS Active

FEATURE INTERSECTION UNKNOWN CREEK

CULVERT			
1. Level of Inspection	X-Inspection from ends of culvert. (Non-entry)		
2. Material	4-Poor	3. Culvert Alignment	6-Satisfactory
4. Shape	-	5. Seams or Joints	6-Satisfactory
6. Slab	-	7. Abutments	-
8. Headwalls*	6-Satisfactory	9. End Structure	-

CHANNEL			
10. Channel Alignment	8-Very Good	11. Protection	4-Poor
12. Culvert Waterway Blockage	8-Very Good	13. Scour*	5-Fair

APPROACHES			
14. Pavement	7-Good	15. Guardrail	7-Good
16. Embankment	6-Satisfactory		

GENERAL APPRAISAL AND OPERATIONAL STATUS	4 - Poor condition - advanced section loss, deterioration, or spalling	A-Open, no restriction
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*Only a bold box for structures that are Headwall or Scour critical. These items should not govern the GA if they are not determined to be critical upon the judgement of the inspector.

COMMENTS: Upstream channel 60% obstructed with large trees/roots. 3' deep scour at outlet. Last 11' of culvert is pulling away creating 6-8" gap up both sidewalls and roof. 18" deep voids behind culvert walls from sediment infiltration at gap. Gap falls between the WEL and guardrail. Outlet headwall undermined . Shear cracking/pavement settling between westbound lane and paved shoulder, outside white edge line.

INSPECTED BY: MB

DATE: 01/28/2020

• **1814183 -- GEA SR 700 1.719**

CULVERT INVENTORY REPORT

CULVERT FILE NUMBER : 1814183		Old CFN : 287000171	
LOCATION AND ROUTE INFORMATION			
1. District	12	2. County	GEAUGA
3. Route	SR - 700	4. Straight line Mileage	9.587
5. Latitude	41.372160	6. Longitude	-81.143140
7. Special Designation	M - Mainline	8. Culvert Owner	S - State Department of

			Transportation
9. Maintenance Responsibility	S - State Department of Transportation	10. Entry Class	Class A (Non-Entry Inspection)
11. Status	A - Active	12. Feature Intersected	Ditch
CULVERT			
13. Installation Date		14. Number of Cells	1
15. Broken Back	No	16. Culvert Shape	8 - Slab Top Culvert
17. Culvert Material	15 - Stone	18. Span (Inches)	36
19. Rise (Inches)	36	20. Length (Feet)	35
21. Metal Gage Thickness 1		22. Metal Gage Thickness 2	
23. Type of Pipe Protection	1 - Unprotected	24. Slope of Pipe(Percent)	1.1
25. Slope Direction	RL - Right to Left	26. Skew (Degrees)	0
27. Skew Direction	-	28. Inlet End Treatment	1 - Full Height Concrete Headwall
29. Outlet End Treatment	1 - Full Height Concrete Headwall	30. Maximum Height of Cover (Feet)	2
31. Height of Inlet Headwall (Feet)	4	32. Inlet Headwall to EOP Distance (Feet)	5
33. Height of Outlet Headwall (Feet)	5	34. Outlet Headwall to EOP Distance (Feet)	5
35. Drainage Area (Acres)	0	36. Drainage Discharge(CFS)	0
37. Abrasive Conditions	No	38. Abrasion Level	1
39. pH	7.6	40. Channel Protection (Inlet)	G - Grass or Brush (Naturally occurring)
41. Channel Protection (Outlet)	G - Grass or Brush (Naturally occurring)		
Inventory Modifications			
42. Modification Type	-	43. Year Modified	
44. Modification Material	-	45. Modification Size (Inches)	0
46. Inlet Extension Year		47. Inlet Extension Shape	-
48. Inlet Extension Material	-	49. Inlet Extension Span (Inches)	0
50. Inlet Extension Rise (Inches)	0	51. Metal Inlet Gage Thickness 1	0
52. Metal Inlet Gage Thickness 2		53. Inlet Extension Length (Feet)	0
54. Outlet Extension Year		55. Outlet Extension Shape	-
56. Outlet Extension Material	-	57. Outlet Extension Span (Inches)	0
58. Outlet Extension Rise (Inches)	0	59. Metal Outlet Gage Thickness 1	0
60. Metal Outlet Gage Thickness 2		61. Outlet Extension Length (Feet)	
COMMENTS: SEE GEA-700-0.00 SHEETS 6/8 AND 8/8. Inspect Every-Five Years			
INVENTORIED BY: LM		DATE: 02/10/2016	

CULVERT INSPECTION REPORT

CULVERT FILE NUMBER 1814183 **CULVERT NUMBER** GEA 700 SR - 1.719 **DISTRICT** 12
CO ROUTE ID SLM
Old CFN 287000171
SPAN 36 **SHAPE** Slab Top Culvert **MATERIAL** Stone **LENGTH** 35
SPECIAL DESIGNATION Mainline **ENTRY CLASS** Class A (Non-Entry Inspection) **NUMBER OF CELLS** 1
LATITUDE 41.372160 **LONGITUDE** -81.143140 **STATUS** Active

FEATURE INTERSECTION Ditch

CULVERT			
1. Level of Inspection	X-Inspection from ends of culvert. (Non-entry)		
2. Material	4-Poor	3. Culvert Alignment	4-Poor
4. Shape	-	5. Seams or Joints	4-Poor
6. Slab	6-Satisfactory	7. Abutments	-
8. Headwalls*	7-Good	9. End Structure	-

CHANNEL			
10. Channel Alignment	5-Fair	11. Protection	6-Satisfactory
12. Culvert Waterway Blockage	8-Very Good	13. Scour*	6-Satisfactory

APPROACHES			
14. Pavement	5-Fair	15. Guardrail	-
16. Embankment	6-Satisfactory		

GENERAL APPRAISAL AND OPERATIONAL STATUS	4 - Poor condition - advanced section loss, deterioration, or spalling	A-Open, no restriction
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*Only a bold box for structures that are Headwall or Scour critical. These items should not govern the GA if they are not determined to be critical upon the judgement of the inspector.

COMMENTS: Dip/settlement in pavement-SB lane right wheel track. The floor/bottom of the box has abraded completely from outlet to half way into the box. 2" differential movement (drop of stones), at the outlet has caused a minimum drop in the roof stone resulting in the dip in the pavement. 2' deep scour at outlet. Minor embankment erosion-repairs performed at inlet embankment. Meandered upstream channel pointing at unprotected embankment. Open joints between stones with infiltration. Voids behind sidewalls and outlet headwall.

INSPECTED BY: MB

DATE: 01/14/2020

- **1811799 -- GEA SR 700 7.607**

CULVERT INVENTORY REPORT

CULVERT FILE NUMBER : 1811799		Old CFN : 287000763	
LOCATION AND ROUTE INFORMATION			
1. District	12	2. County	GEAUGA
3. Route	SR - 700	4. Straight line Mileage	15.492
5. Latitude	41.456110	6. Longitude	-81.135980
7. Special Designation	M - Mainline	8. Culvert Owner	S - State Department of Transportation
9. Maintenance Responsibility	S - State Department of Transportation	10. Entry Class	Class A (Non-Entry Inspection)
11. Status	A - Active	12. Feature Intersected	NONE
CULVERT			
13. Installation Date		14. Number of Cells	1
15. Broken Back	No	16. Culvert Shape	7 - Box Culvert
17. Culvert Material	1 - Plain or Reinforced Concrete	18. Span (Inches)	96
19. Rise (Inches)	24	20. Length (Feet)	44

21. Metal Gage Thickness 1		22. Metal Gage Thickness 2	
23. Type of Pipe Protection	1 - Unprotected	24. Slope of Pipe(Percent)	0.1
25. Slope Direction	-	26. Skew (Degrees)	0
27. Skew Direction	-	28. Inlet End Treatment	1 - Full Height Concrete Headwall
29. Outlet End Treatment	1 - Full Height Concrete Headwall	30. Maximum Height of Cover (Feet)	1
31. Height of Inlet Headwall (Feet)	6	32. Inlet Headwall to EOP Distance (Feet)	7
33. Height of Outlet Headwall (Feet)	6	34. Outlet Headwall to EOP Distance (Feet)	8
35. Drainage Area (Acres)	0	36. Drainage Discharge(CFS)	0
37. Abrasive Conditions	No	38. Abrasion Level	1
39. pH	6.6	40. Channel Protection (Inlet)	V - Vegetation (Bioengineered)
41. Channel Protection (Outlet)	V - Vegetation (Bioengineered)		

Inventory Modifications

42. Modification Type	-	43. Year Modified	
44. Modification Material	-	45. Modification Size (Inches)	0
46. Inlet Extension Year		47. Inlet Extension Shape	-
48. Inlet Extension Material	-	49. Inlet Extension Span (Inches)	0
50. Inlet Extension Rise (Inches)	0	51. Metal Inlet Gage Thickness 1	0
52. Metal Inlet Gage Thickness 2		53. Inlet Extension Length (Feet)	0
54. Outlet Extension Year		55. Outlet Extension Shape	-
56. Outlet Extension Material	-	57. Outlet Extension Span (Inches)	0
58. Outlet Extension Rise (Inches)	0	59. Metal Outlet Gage Thickness 1	0
60. Metal Outlet Gage Thickness 2		61. Outlet Extension Length (Feet)	

COMMENTS: GUARDRAIL NEEDED AT ENDS. The slab has exposed rebar and is spalling The headwalls has exposed rebar and is spalling.Inspect Every-Five Years

INVENTORIED BY: WE

DATE: 02/04/2016

CULVERT INSPECTION REPORT

CULVERT FILE NUMBER 1811799 CULVERT NUMBER GEA 700 SR - 7.607 DISTRICT 12
CO ROUTE ID SLM

Old CFN 287000763

SPAN 96 SHAPE Box Culvert MATERIAL Plain or Reinforced Concrete LENGTH 44

SPECIAL DESIGNATION Mainline ENTRY CLASS Class A (Non-Entry Inspection) NUMBER OF CELLS 1

LATITUDE 41.456110 LONGITUDE -81.135980 STATUS Active

FEATURE INTERSECTION NONE

CULVERT			
1. Level of Inspection	X-Inspection from ends of culvert. (Non-entry)		
2. Material	4-Poor	3. Culvert Alignment	6-Satisfactory
4. Shape	-	5. Seams or Joints	6-

			Satisfactory
6. Slab	-	7. Abutments	-
8. Headwalls*	6-Satisfactory	9. End Structure	-

CHANNEL			
10. Channel Alignment	8-Very Good	11. Protection	4-Poor
12. Culvert Waterway Blockage	8-Very Good	13. Scour*	5-Fair

APPROACHES			
14. Pavement	8-Very Good	15. Guardrail	8-Very Good
16. Embankment	6-Satisfactory		

GENERAL APPRAISAL AND OPERATIONAL STATUS		4 - Poor condition - advanced section loss, deterioration, or spalling	A-Open, no restriction
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*Only a bold box for structures that are Headwall or Scour critical. These items should not govern the GA if they are not determined to be critical upon the judgement of the inspector.

COMMENTS: Spalling over 25% of roof with exposed, rusted and suspended rebar. Approx 5% of this spalled area has rebar rusted completely away. Downstream channel 60% obstructed causing the box to maintain nearly 2 feet of water at all times. 1' deep scour at outlet along north wingwall. Both sidewalls have stones badly abraded. Both HWs deeply spalled with exposed rusted rebar. Crack over the center of the inlet headwall. Upstream channel meanders and doesn't enter the inlet straight on. Portion of the upstream channel are directed at unprotected roadway embankment.

INSPECTED BY: MB

DATE: 01/14/2020

- 1827358 -- LAK SR 84 27.097

CULVERT INVENTORY REPORT

CULVERT FILE NUMBER : 1827358		Old CFN : 430842718	
LOCATION AND ROUTE INFORMATION			
1. District	12	2. County	LAKE
3. Route	SR - 84	4. Straight line Mileage	29.949
5. Latitude	41.763270	6. Longitude	-81.092870
7. Special Designation	M - Mainline	8. Culvert Owner	S - State Department of Transportation
9. Maintenance Responsibility	S - State Department of Transportation	10. Entry Class	Class A (Non-Entry Inspection)
11. Status	A - Active	12. Feature Intersected	Wood Rd
CULVERT			
13. Installation Date		14. Number of Cells	1
15. Broken Back	No	16. Culvert Shape	7 - Box Culvert
17. Culvert Material	15 - Stone	18. Span (Inches)	53
19. Rise (Inches)	102	20. Length (Feet)	60
21. Metal Gage Thickness 1		22. Metal Gage Thickness 2	
23. Type of Pipe Protection	1 - Unprotected	24. Slope of Pipe(Percent)	
25. Slope Direction	RL - Right to Left	26. Skew (Degrees)	0
27. Skew Direction	-	28. Inlet End Treatment	4 - Stone
29. Outlet End Treatment	4 - Stone	30. Maximum Height of Cover (Feet)	4
31. Height of Inlet Headwall (Feet)		32. Inlet Headwall to EOP Distance (Feet)	

33. Height of Outlet Headwall (Feet)		34. Outlet Headwall to EOP Distance (Feet)	
35. Drainage Area (Acres)	0	36. Drainage Discharge(CFS)	0
37. Abrasive Conditions	Yes	38. Abrasion Level	4
39. pH	7.6	40. Channel Protection (Inlet)	N - None
41. Channel Protection (Outlet)	N - None		
Inventory Modifications			
42. Modification Type	-	43. Year Modified	
44. Modification Material	-	45. Modification Size (Inches)	0
46. Inlet Extension Year		47. Inlet Extension Shape	-
48. Inlet Extension Material	-	49. Inlet Extension Span (Inches)	0
50. Inlet Extension Rise (Inches)	0	51. Metal Inlet Gage Thickness 1	0
52. Metal Inlet Gage Thickness 2		53. Inlet Extension Length (Feet)	0
54. Outlet Extension Year		55. Outlet Extension Shape	-
56. Outlet Extension Material	-	57. Outlet Extension Span (Inches)	0
58. Outlet Extension Rise (Inches)	0	59. Metal Outlet Gage Thickness 1	0
60. Metal Outlet Gage Thickness 2		61. Outlet Extension Length (Feet)	
COMMENTS: Culvert is located on the east side of Wood Road.			
INVENTORIED BY: WG		DATE: 03/28/2016	

CULVERT INSPECTION REPORT

CULVERT FILE NUMBER 1827358 **CULVERT NUMBER** LAK 84 SR - 27.097 **DISTRICT** 12
CO ROUTE ID SLM
Old CFN 430842718
SPAN 53 **SHAPE** Box Culvert **MATERIAL** Stone **LENGTH** 60
SPECIAL DESIGNATION Mainline **ENTRY CLASS** Class A (Non-Entry Inspection) **NUMBER OF CELLS** 1
LATITUDE 41.763270 **LONGITUDE** -81.092870 **STATUS** Active
FEATURE INTERSECTION Wood Rd

CULVERT			
1. Level of Inspection	M-Manned Entry inspection		
2. Material	3-Serious	3. Culvert Alignment	6-Satisfactory
4. Shape	-	5. Seams or Joints	4-Poor
6. Slab	5-Fair	7. Abutments	5-Fair
8. Headwalls*	6-Satisfactory	9. End Structure	-

CHANNEL			
10. Channel Alignment	6-Satisfactory	11. Protection	6-Satisfactory
12. Culvert Waterway Blockage	8-Very Good	13. Scour*	5-Fair

APPROACHES			
14. Pavement	8-Very Good	15. Guardrail	8-Very Good

16. Embankment	6-Satisfactory	
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GENERAL APPRAISAL AND OPERATIONAL STATUS	3 - Serious condition - loss of section, deterioration, or spalling have seriously affected primary structural components	A-Open, no restriction
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*Only a bold box for structures that are Headwall or Scour critical. These items should not govern the GA if they are not determined to be critical upon the judgement of the inspector.

COMMENTS: Isolated missing stone. Several others deeply abraded with infiltration. Misalignment of several stones, east wall, near inlet. Horizontal joint between stone dipping downward as well as rows of stones shifting inward by as much as 1" on both walls. Minor differential rotation. Sinkhole in inlet embankment over box-opening between slab stone allowing infiltration. Channel flow directed at , and along , west headwall and then into the box culvert. Radium guardrail panels impacted along the north side of Wood Road.

INSPECTED BY: MB

DATE: 01/29/2020

• 1802284 -- LAK SR 608 3.098

CULVERT INVENTORY REPORT

CULVERT FILE NUMBER : 1802284 Old CFN : 436080314

LOCATION AND ROUTE INFORMATION			
1. District	12	2. County	LAKE
3. Route	SR - 608	4. Straight line Mileage	18.997
5. Latitude	41.672880	6. Longitude	-81.216280
7. Special Designation	M - Mainline	8. Culvert Owner	S - State Department of Transportation
9. Maintenance Responsibility	S - State Department of Transportation	10. Entry Class	Class A (Non-Entry Inspection)
11. Status	A - Active	12. Feature Intersected	ALEXANDER RD.

CULVERT			
13. Installation Date		14. Number of Cells	1
15. Broken Back	No	16. Culvert Shape	7 - Box Culvert
17. Culvert Material	15 - Stone	18. Span (Inches)	36
19. Rise (Inches)	36	20. Length (Feet)	48
21. Metal Gage Thickness 1		22. Metal Gage Thickness 2	
23. Type of Pipe Protection	1 - Unprotected	24. Slope of Pipe(Percent)	
25. Slope Direction	-	26. Skew (Degrees)	0
27. Skew Direction	-	28. Inlet End Treatment	NN - None N/A
29. Outlet End Treatment	7 - Catch Basin	30. Maximum Height of Cover (Feet)	4
31. Height of Inlet Headwall (Feet)		32. Inlet Headwall to EOP Distance (Feet)	
33. Height of Outlet Headwall (Feet)		34. Outlet Headwall to EOP Distance (Feet)	
35. Drainage Area (Acres)		36. Drainage Discharge(CFS)	
37. Abrasive Conditions	No	38. Abrasion Level	1
39. pH		40. Channel Protection (Inlet)	G - Grass or Brush (Naturally occurring)
41. Channel Protection (Outlet)	X - Not Applicable		

Inventory Modifications			
42. Modification Type	-	43. Year Modified	
44. Modification Material	-	45. Modification Size (Inches)	
46. Inlet Extension Year		47. Inlet Extension Shape	1 - Circular
48. Inlet Extension Material	13 - Corrugated Plastic,	49. Inlet Extension Span (Inches)	18

	Smooth Interior		
50. Inlet Extension Rise (Inches)	18	51. Metal Inlet Gage Thickness 1	
52. Metal Inlet Gage Thickness 2		53. Inlet Extension Length (Feet)	8
54. Outlet Extension Year		55. Outlet Extension Shape	1 - Circular
56. Outlet Extension Material	5 - Vitrified Clay	57. Outlet Extension Span (Inches)	18
58. Outlet Extension Rise (Inches)	18	59. Metal Outlet Gage Thickness 1	
60. Metal Outlet Gage Thickness 2		61. Outlet Extension Length (Feet)	8
COMMENTS:			
INVENTORIED BY: WS		DATE: 05/20/2005	

CULVERT INSPECTION REPORT

CULVERT FILE NUMBER 1802284 **CULVERT NUMBER** LAK 608 SR - 3.098 **DISTRICT** 12
CO ROUTE ID SLM
Old CFN 436080314
SPAN 36 **SHAPE** Box Culvert **MATERIAL** Stone **LENGTH** 48
SPECIAL DESIGNATION Mainline **ENTRY CLASS** Class A (Non-Entry Inspection) **NUMBER OF CELLS** 1
LATITUDE 41.672880 **LONGITUDE** -81.216280 **STATUS** Active
FEATURE INTERSECTION ALEXANDER RD.

CULVERT			
1. Level of Inspection	X-Inspection from ends of culvert. (Non-entry)		
2. Material	5-Fair	3. Culvert Alignment	6-Satisfactory
4. Shape	-	5. Seams or Joints	5-Fair
6. Slab	4-Poor	7. Abutments	-
8. Headwalls*	-	9. End Structure	6-Satisfactory

CHANNEL			
10. Channel Alignment	8-Very Good	11. Protection	8-Very Good
12. Culvert Waterway Blockage	8-Very Good	13. Scour*	8-Very Good

APPROACHES			
14. Pavement	6-Satisfactory	15. Guardrail	-
16. Embankment	8-Very Good		

GENERAL APPRAISAL AND OPERATIONAL STATUS	4 - Poor condition - advanced section loss, deterioration, or spalling	A-Open, no restriction

*Only a bold box for structures that are Headwall or Scour critical. These items should not govern the GA if they are not determined to be critical upon the judgement of the inspector.

COMMENTS: Cracks in roof slab near outlet. Spaces between wall stones with possible infiltration. Rock and debris in box culvert obstructing the opening by approximately 10%. Pavement cracks with minor potholes and settlement.

