



**US Army Corps
of Engineers®**

Levee Inspection Report

Name of System: Hammond

Name of Segment: Hammond

NLD System ID: 2605000009

NLD Segment ID: 2604000008

Segment Type: USACE Constructed, Public sponsor O&M

Levee Sponsor (Name and Organization): Little Calumet River Basin Development Commission, Little Calumet River Basin Development Commission

Inspection Report Prepared by: Yuki Galisanao

Date(s) of Inspection: 07/07/2020 - 07/08/2020

Other Segments Within This System

Segment Name	NLD Segment ID#	Segment Type	Segment Inspection Rating

Contents of Inspection Report:

☐ Levee Inspection Summary

Inspection Checklist

- ☒ General Items
- ☒ Levee Embankment
- ☒ Concrete Floodwalls
- ☒ Interior Drainage System
- ☒ Pump Stations
- ☐ FDR System Channels

☒ Public Sponsor Pre-Inspection Form

☐ National Flood Insurance Program (NFIP) - 44 CFR 65.10
Provision Evaluation

☒ General Instructions

☒ Maps

Type of Inspection: ☒ Routine Inspection ☐ Periodic Inspection ☐ Special Inspection

Purpose of Special Inspection: _____

Ratings:

Segment Rating: ☐ Acceptable ☒ Minimally Acceptable ☐ Unacceptable ☐ No Verdict

System Rating: ☐ Acceptable ☐ Minimally Acceptable ☐ Unacceptable ☐ No Verdict

LSPM Signature: _____

William A. Rockford

Date Approved: 28 Sept 2020

LSO Signature: _____

Date Approved: _____

Levee Inspection Team Members (Levee Sponsor, USACE, and Others)

Name	Organization	Discipline	Phone Number
Yuki Galisanao	USACE - Chicago District	Geotechnical	
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Dan Repay	LCRBDC		
Multiple reps	City of Hammond		
Multiple reps	HSD		

Segment Rating Rationale:

[Describe the basis of the Segment rating considering (1) the general condition of the segment, (2) the rationale for Item ratings, categorized by Feature that contributed to the Segment rating, and (3) the number or severity of notable observations/deficiencies. The summary may also include information related to the condition of the levee, not otherwise captured in the Levee Inspection Checklist, if applicable.]

Minor issues with trees and tall vegetation, debris, bank erosion, settlement, rutting, animal burrows, condition of pipes, riprap displacement, gabion damage, spalling and exposed rebar on the concrete cap, holes at the base of the concrete panels and at transitions, closure issues, deteriorating joints, vegetation and silt at the outlets, debris in the sluice and flap gates, open manholes, broken fencing and ladders, missing safety signs, minor structural issues at the pump stations, broken fencing, leaking, corrosion, and megger testing.

System Rating Rationale:

[Synthesize information from the Segment rating rationales for each Segment within the System. For single-segment systems, see segment rating rationale above.]

Same as segment rating.

General Items for All Flood Damage Reduction Segments / Systems
For use during all inspections of all Flood Damage Reduction Segments / Systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
1. Operations and Maintenance Manuals	A	A	Levee Owner's Manual, O&M Manuals, and/or manufacturer's operating instructions are present.	Justification: Documents maintained by the City Engineering Department and relevant copies distributed to appropriate internal agencies.
		M	Sponsor manuals are lost or missing or out of date; however, sponsor will obtain manuals prior to next scheduled inspection.	
		U	Sponsor has not obtained lost or missing manuals identified during previous inspection.	
2. Emergency Supplies and Equipment (A or M only)	A	A	The sponsor maintains a stockpile of sandbags, shovels, and other flood fight supplies which will adequately supply all needs for the initial days of a flood fight. Sponsor determines required quantity of supplies after consulting with inspector.	Justification: City of Hammond has ready inventory of flood fighting supplies and equipment. Primary resources are available through Public Works Department, but also can be supplemented by other city departments. Street Dept Public Works facility at 601 Conkey maintains pay loaders, 12 new trucks, 30 existing trucks, 4 front loaders, 26 concrete blocks, portable welders, approximately 1500 sandbags, 2 forklifts, pile of sand, 5k empty sandbags, and visqueen. Borrow source is Krooswyk. Hammond manually fills sandbags or uses a salt spreader to fill large quantities of bags.
		M	The sponsor does not maintain an adequate supply of flood fighting materials as part of their preparedness activities.	
3. Flood Preparedness and Training (A or M only)	A	A	Sponsor has a written system-specific flood response plan and a solid understanding of how to operate, maintain, and staff the FDR system during a flood. Sponsor maintains a list of emergency contact information for appropriate personnel and other emergency response agencies.	Justification: Hammond uses the RAVE emergency notification system to send messages to residents via phone, email, and web. They also use reverse 911, WJOB radio station, door to door, loud speaker, and police to relay information. Public Works also uses frequency radios with the police and fire departments. Evacuation areas include City Hall, Civic Center, Jean Shepherd Community Center, Armory, Purdue University Calumet, Area Career Center. Fire Department has rescue boats. Public Works and Sanitary District were ready to mobilize. Dyer and Grimmer were on hand to assist with flood fighting if required. Updated Flood Handbooks were provided in 2019.
		M	The sponsor maintains a good working knowledge of flood response activities, but documentation of system-specific emergency procedures and emergency contact personnel is insufficient or out of date.	

Key: A = Acceptable. M = Minimally Acceptable; Maintenance is required. U = Unacceptable. N/A = Not Applicable. FDR = Flood Damage Reduction

Levee Embankments

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
1. Unwanted Vegetation Growth ¹	M	A	The levee has little or no unwanted vegetation (trees, bush, or undesirable weeds), except for vegetation that is properly contained and/or situated on overbuilt sections, such that the mandatory 3-foot root-free zone is preserved around the levee profile. The levee has been recently mowed. The vegetation-free zone extends 15 feet from both the landside and riverside toes of the levee to the centerline of the tree. If the levee access easement doesn't extend to the described limits, then the vegetation-free zone must be maintained to the easement limits. Reference EM 1110-2-301 or Corps policy for regional vegetation variance.	2020-0003 : Tall vegetation on crest and slopes. (M) 2020-0075 : Trees on riverside toe. (M) 2020-0078 : Tall vegetation on landside toe. (M) 2020-0084 : Tall vegetation on riverside toe. (M) 2020-0099 : Acceptable vegetation on slopes. (A) 2020-0105 : Tall vegetation and trees on riverside toe. (M) 2020-0117 : Tall trees on riverside slope. (M) 2020-0119 : Trees on riverside slope. (M) 2020-0219 : Tall vegetation on riverside toe. (M) 2020-0228 : Tall vegetation and trees on landside toe. (M) 2020-0237 : Tall vegetation and trees on riverside toe. (M) 2020-0240 : Trees on riverside toe. (M) 2020-0261 : Tall vegetation on riverside toe. (M) 2020-0294 : Small vegetation along sheetpile retaining wall. (M) 2020-0306 : Tall vegetation on riverside toe. (M) 2020-0309 : Tall vegetation and trees on riverside toe. (M) 2020-0321 : Trees on riverside toe. (M) 2020-0330 : Tall vegetation and trees on riverside toe. (M) 2020-0333 : Tall vegetation on riverside toe. (M) 2020-0339 : Tall vegetation and trees on riverside toe. (M) 2020-0366 : Tall vegetation on riverside toe. (M) 2020-0369 : Tall vegetation and trees on landside toe. (M) 2020-0381 : Tall vegetation on landside toe. (M) 2020-0432 : Trees on riverside slope. (M) 2020-0438 : Trees on riverside toe. (M) 2020-0471 : Large trees and tall vegetation on slope. (M)
		M	Minimal vegetation growth (brush, weeds, or trees 2 inches in diameter or smaller) is present within the zones described above. This vegetation must be removed but does not currently threaten the operation or integrity of the levee.	
		U	Significant vegetation growth (brush, weeds, or any trees greater than 2 inches in diameter) is present within the zones described above and must be removed to reestablish or ascertain levee integrity.	
2. Sod Cover	A	A	There is good coverage of sod over the levee.	2020-0450 : Good sod cover. (A)
		M	Approximately 25% of the sod cover is missing or damaged over a significant portion or over significant portions of the levee embankment. This may be the result of over-grazing or feeding on the levee, unauthorized vehicular traffic, chemical or insect problems, or burning during inappropriate seasons.	
		U	Over 50% of the sod cover is missing or damaged over a significant portion or portions of the levee embankment.	
		N/A	Surface protection is provided by other means.	
3. Encroachments	M	A	No trash, debris, unauthorized farming activity, structures, excavations, or other obstructions present within the easement area. Encroachments have been previously reviewed by the Corps, and it was determined that they do not diminish proper functioning of the levee.	2020-0081 : Posts and rope along the landside toe. (M) 2020-0114 : Large logs on riverside slope. Prevented mowing and allowed trees to grow. (M)
		M	Trash, debris, unauthorized farming activity, structures, excavations, or other obstructions present, or inappropriate activities noted that should be corrected but will not inhibit operations and maintenance or emergency operations. Encroachments have not been reviewed by the Corps.	2020-0204 : Shopping cart on riverside slope. (M) 2020-0207 : Woody debris on riverside slope. (M) 2020-0354 : Downed trees on landside toe. (M) 2020-0378 : Concrete debris on landside toe. (M)
		U	Unauthorized encroachments or inappropriate activities noted are likely to inhibit operations and maintenance, emergency operations, or negatively impact the integrity of the levee.	2020-0399 : Concrete blocks across levee. (M)

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Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
4. Closure Structures	NA	A	Closure structure in good repair. Placing equipment, stoplogs, and other materials are readily available at all times. Components are clearly marked and installation instructions/ procedures readily available. Trial erections have been accomplished in accordance with the O&M Manual.	
		U	Any of the following issues is cause for this rating: Closure structure in poor condition. Parts missing or corroded. Placing equipment may not be available within the anticipated warning time. The storage vaults cannot be opened during the time of inspection. Components of closure are not clearly marked and installation instructions/ procedures are not readily available. Trial erections have not been accomplished in accordance with the O&M Manual.	
		N/A	There are no closure structures along this component of the FDR segment / system.	
5. Slope Stability	A	A	No slides, sloughs, tension cracking, slope depressions, or bulges are present.	Justification: No issues noted.
		M	Minor slope stability problems that do not pose an immediate threat to the levee embankment.	
		U	Major slope stability problems (ex. deep seated sliding) identified that must be repaired to reestablish the integrity of the levee embankment.	
6. Erosion/ Bank Caving	M	A	No erosion or bank caving is observed on the landward or riverward sides of the levee that might endanger its stability.	2020-0249 : 1 ft scarp on riverside toe. (M) 2020-0348 : Erosion at toe. (M) 2020-0357 : Erosion at toe. (M)
		M	There are areas where minor erosion is occurring or has occurred on or near the levee embankment, but levee integrity is not threatened.	
		U	Erosion or caving is occurring or has occurred that threatens the stability and integrity of the levee. The erosion or caving has progressed into the levee section or into the extended footprint of the levee foundation and has compromised the levee foundation stability.	
7. Settlement ²	A	A	No observed depressions in crown. Records exist and indicate no unexplained historical changes.	Justification: No issues noted.
		M	Minor irregularities that do not threaten integrity of levee. Records are incomplete or inclusive.	
		U	Obvious variations in elevation over significant reaches. No records exist or records indicate that design elevation is compromised.	
8. Depressions/ Rutting	M	A	There are scattered, shallow ruts, pot holes, or other depressions on the levee that are unrelated to levee settlement. The levee crown, embankments, and access road crowns are well established and drain properly without any ponded water.	2020-0009 : Rutting on landside slope. (M) 2020-0030 : Rutting on landside toe. (M) 2020-0345 : Levee eroded at transition. (M) 2020-0390 : Deep ruts on crest. (M) 2020-0435 : Rutting on landside toe. (M) 2020-0447 : Rut on riverside slope. (M)
		M	There are some infrequent minor depressions less than 6 inches deep in the levee crown, embankment, or access roads that will pond water.	
		U	There are depressions greater than 6 inches deep that will pond water.	
9. Cracking	M	A	Minor longitudinal, transverse, or desiccation cracks with no vertical movement along the crack. No cracks extend continuously through the levee crest.	2020-0231 : Transverse crack in pavement. Investigate. (M) 2020-0234 : Transverse crack in pavement. Investigate. (M)
		M	Longitudinal and/or transverse cracks up to 6 inches in depth with no vertical movement along the crack. No cracks extend continuously through the levee crest. Longitudinal cracks are no longer than the height of the levee.	
		U	Cracks exceed 6 inches in depth. Longitudinal cracks are longer than the height of the levee and/or exhibit vertical movement along the crack. Transverse cracks extend through the entire levee width.	

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Levee Embankments

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
10. Animal Control	M	A	Continuous animal burrow control program in place that includes the elimination of active burrowing and the filling in of existing burrows.	2020-0246 : 18 inch deep burrow on riverside slope. (M) 2020-0468 : Three burrows on crest, two feet deep. (M)
		M	The existing animal burrow control program needs to be improved. Several burrows are present which may lead to seepage or slope stability problems, and they require immediate attention.	
		U	Animal burrow control program is not effective or is nonexistent. Significant maintenance is required to fill existing burrows, and the levee will not provide reliable flood protection until this maintenance is complete.	
11. Culverts/ Discharge Pipes ³ (This item includes both concrete and corrugated metal pipes.)	M	A	There are no breaks, holes, cracks in the discharge pipes/ culverts that would result in significant water leakage. The pipe shape is still essentially circular. All joints appear to be closed and the soil tight. Corrugated metal pipes, if present, are in good condition with 100% of the original coating still in place (either asphalt or galvanizing) or have been relined with appropriate material, which is still in good condition. Condition of pipes has been verified using television camera video taping or visual inspection methods within the past five years, and the report for every pipe is available for review by the inspector.	Justification: Camera inspection performed in June and July 2016 for the following culverts: 24-inch RCP (HA-1) 24-inch RCP (HA-2) 24-inch RCP (HA-3) 84-inch RCP (HA-4) 24-inch RCP (HA-5) 36-inch RCP (HA-6) 24-inch RCP (HA-7) - Gasket removed at joint (M) 54-inch RCP (HA-8) 24-inch RCP (HA-9) 36-inch RCP (HA-10) - Offset joint and small separation (M) 24-inch RCP (HA-11) 84-inch RCP (HA-12) 36-inch RCP (HA-13) 30-inch RCP (HA-14) 48-inch RCP (HA-15A) - Concrete obstruction (M) 36-inch RCP (HA-15B) 60-inch RCP (HA-15C) 60-inch RCP (HA-16) 36-inch RCP (HA-17) 18-inch RCP (HA-18A,B,C) - Circumferential crack in pipe (M) 24-inch RCP (HA-19) - Heavy debris, roots at joint, roots in crack (M) 48-inch RCP (HA-20) 96-inch RCP (HA-21A,B,C) 24-inch RCP (HA-22) - Circumferential crack at flap gate (M) 24-inch RCP (HA-23) - Mineral deposits at joint, circumferential crack in pipe at chamber connection (M) 24-inch RCP (HA-24) 24-inch RCP (HA-25) 54-inch RCP (HA-26A) 54-inch RCP (HA-26B) 24-inch RCP (HA-27A) 48-inch RCP (HA-27B) 54-inch RCP (HA-28) 24-inch DIP (HA-29) 24-inch RCP (HA-30) - Debris, broken pipe at joint, void visible (M) 36-inch RCP (HA-31) - Gasket exposed at joint (M) 24-inch RCP (HA-33) 24-inch RCP (HA-34) 42-inch RCP (HA-35) 24-inch RCP (HA-36) - Surface damage, gasket showing (M) Repair. Refer to the camera inspection report for more details. Next inspection should be performed in 2021.
		M	There are a small number of corrosion pinholes or cracks that could leak water and need to be repaired, but the entire length of pipe is still structurally sound and is not in danger of collapsing. Pipe shape may be ovalized in some locations but does not appear to be approaching a curvature reversal. A limited number of joints may have opened and soil loss may be beginning. Any open joints should be repaired prior to the next inspection. Corrugated metal pipes, if present, may be showing corrosion and pinholes but there are no areas with total section loss. Condition of pipes has been verified using television camera video taping or visual inspection methods within the past five years, and the report for every pipe is available for review by the inspector.	
		U	Culvert has deterioration and/or has significant leakage; it is in danger of collapsing or as already begun to collapse. Corrugated metal pipes have suffered 100% section loss in the invert. HOWEVER: Even if pipes appear to be in good condition, as judged by an external visual inspection, an Unacceptable Rating will be assigned if the condition of pipes has not been verified using television camera video taping or visual inspection methods within the past five years, and reports for all pipes are not available for review by the inspector.	
		N/A	There are no discharge pipes/ culverts.	
12. Riprap Revetments & Bank Protection	M	A	No riprap displacement or stone degradation that could pose an immediate threat to the integrity of channel bank. Riprap intact with no woody vegetation present.	2020-0210 : Missing riprap on upper half of slope . (M)
		M	Minor riprap displacement or stone degradation that could pose an immediate threat to the integrity of the channel bank. Unwanted vegetation must be cleared or sprayed with an appropriate herbicide.	
		U	Significant riprap displacement, exposure of bedding, or stone degradation observed. Scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Rock protection is hidden by dense brush, trees, or grasses.	
		N/A	There is no riprap protecting this feature of the segment / system, or riprap is discussed in another section.	

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Levee Embankments

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
13. Revetments other than Riprap	M	A	Existing revetment protection is properly maintained, undamaged, and clearly visible.	2020-0213 : Missing stone from gabion on west side of control structure. (M) 2020-0216 : Broken gabion basket. (M)
		M	Minor revetment displacement or deterioration that does not pose an immediate threat to the integrity of the levee. Unwanted vegetation must be cleared or sprayed with an appropriate herbicide.	
		U	Significant revetment displacement, deterioration, or exposure of bedding observed. Scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Revetment protection is hidden by dense brush and trees.	
		N/A	There are no such revetments protecting this feature of the segment / system.	
14. Underseepage Relief Wells/ Toe Drainage Systems	NA	A	Toe drainage systems and pressure relief wells necessary for maintaining FDR segment / system stability during high water functioned properly during the last flood event and no sediment is observed in horizontal system (if applicable). Nothing is observed which would indicate that the drainage systems won't function properly during the next flood, and maintenance records indicate regular cleaning. Wells have been pumped tested within the past 5 years and documentation is provided.	
		M	Toe drainage systems or pressure relief wells are damaged and may become clogged if they are not repaired. Maintenance records are incomplete or indicate irregular cleaning and pump testing.	
		U	Toe drainage systems or pressure relief wells necessary for maintaining FDR segment / system stability during flood events have fallen into disrepair or have become clogged. No maintenance records. No documentation of the required pump testing.	
		N/A	There are no relief wells/ toe drainage systems along this component of the FDR segment / system.	
15. Seepage	A	A	No evidence or history of unrepaired seepage, saturated areas, or boils.	Justification: No issues noted.
		M	Evidence or history of minor unrepaired seepage or small saturated areas at or beyond the landside toe but not on the landward slope of levee. No evidence of soil transport.	
		U	Evidence or history of active seepage, extensive saturated areas, or boils.	

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Floodwalls

For use during Initial and Continuing Eligibility Inspections of all floodwalls

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
1. Unwanted Vegetation Growth ¹	M	A	A grass-only or paved zone is maintained on both sides of the floodwall, free of all trees, brush, and undesirable weeds. The vegetation-free zone extends 15 feet from both the land and riverside of the floodwall, at ground-level, to the centerline of the tree. Additionally, an 8- foot root-free zone is maintained around the entire structure, including the floodwall toe, heel, and any toe-drains. If the floodwall access easement doesn't extend to the described limits, then the vegetation-free zone must be maintained to the easement limits. Reference EM 1110- 2-301 and/or Corps policy for regional vegetation variance.	2020-0012 : Trees on riverside. (M) 2020-0054 : Tall vegetation on riverside. (M) 2020-0120 : Tree on riverside. (M) 2020-0129 : Trees on riverside. (M) 2020-0150 : Trees on riverside. (M) 2020-0153 : Small trees in riprap. (M) 2020-0177 : Trees on riverside. (M) 2020-0189 : Trees on riverside. (M) 2020-0198 : Trees on riverside. (M) 2020-0243 : Tree on landside. (M) 2020-0273 : Small tree on riverside. (M) 2020-0276 : Tree on riverside. (M) 2020-0282 : Tree on landside. (M) 2020-0300 : Tall vegetation on riverside. (M) 2020-0303 : Tall vegetation on landside. (M) 2020-0420 : Tall vegetation on riverside. (M) 2020-0456 : Small tree on riverside. (M) 2020-0462 : Trees on landside. (M) 2020-0465 : Tall trees on riverside. (M)
		M	Minimal vegetation growth (brush, weeds, or trees 2 inches in diameter or smaller) is present within the zones described above. This vegetation must be removed but does not currently threaten the operation or integrity of the floodwall.	
		U	Significant vegetation growth (brush, weeds, or any trees greater than 2 inches in diameter) is present within the zones described above. This vegetation threatens the operation or integrity of the floodwall and must be removed.	
2. Encroachments	M	A	No trash, debris, unauthorized structures, excavations, or other obstructions present within the easement area. Encroachments have been previously reviewed by the Corps, and it was determined that they do not diminish proper functioning of the floodwall.	2020-0093 : Sandbags on riverside. (M) 2020-0402 : Riprap moved on riverside. (M) 2020-0411 : Debris on landside. (M)
		M	Trash, debris, unauthorized structures, excavations, or other obstructions present, or inappropriate activities noted that should be corrected but will not inhibit operations and maintenance or emergency operations. Encroachments have not been reviewed by the Corps.	2020-0423 : Debris on landside. (M) 2020-0429 : Debris on landside. (M) 2020-0459 : Debris on landside. (M)
		U	Unauthorized encroachments or inappropriate activities noted are likely to inhibit operations and maintenance, emergency operations, or negatively impact the integrity of the floodwall.	
3. Closure Structures (Stop Log Closures and Gates) (A or U only)	A	A	Closure structure in good repair. Placing equipment, stoplogs, and other materials are readily available at all times. Components are clearly marked and installation instructions/ procedures readily available. Trial erections have been accomplished in accordance with the O&M Manual.	2020-0297 : Rubber seal missing at railroad. Last exercise performed in 2013. Exercise overdue. (A) 2020-0324 : Guardrail blocking west sill at Kennedy. Last exercise performed in 2016. Perform next exercise in 2021. (A)
		U	Any of the following issues is cause for this rating: Closure structure in poor condition. Parts missing or corroded. Placing equipment may not be available within the anticipated warning time. The storage vaults cannot be opened during the time of inspection. Components of closure are not clearly marked and installation instructions/ procedures are not readily available. Trial erections have not been accomplished in accordance with the O&M Manual.	2020-0327 : Vegetation on east sill at Kennedy. (A)
		N/A	There are no closure structures along this component of the FDR segment / system.	

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Floodwalls

For use during Initial and Continuing Eligibility Inspections of all floodwalls

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
4. Concrete Surfaces	M	A	Negligible spalling, scaling or cracking. If the concrete surface is weathered or holds moisture, it is still satisfactory but should be seal coated to prevent freeze/ thaw damage.	2020-0126 : Spalling on cap. (M) 2020-0135 : Broken concrete cap. (M) 2020-0162 : Spalling on cap. (M) 2020-0192 : Exposed rebar on cap. (M) 2020-0375 : Spalling on riverside face. (M)
		M	Spalling, scaling, and open cracking present, but the immediate integrity or performance of the structure is not threatened. Reinforcing steel may be exposed. Repairs/ sealing is necessary to prevent additional damage during periods of thawing and freezing.	
		U	Surface deterioration or deep cracks present that may result in an unreliable structure. Any surface deterioration that exposes the sheet piling or lies adjacent to monolith joints may indicate underlying reinforcement corrosion and is unacceptable.	
5. Tilting, Sliding or Settlement of Concrete Structures ²	A	A	There are no significant areas of tilting, sliding, or settlement that would endanger the integrity of the structure.	Justification: No issues noted.
		M	There are areas of tilting, sliding, or settlement (either active or inactive) that need to be repaired. The maximum offset, either laterally or vertically, does not exceed 2 inches unless the movement can be shown to be no longer actively occurring. The integrity of the structure is not in danger.	
		U	There are areas of tilting, sliding, or settlement (either active or inactive) that threaten the structure's integrity and performance. Any movement that has resulted in failure of the waterstop (possibly identified by daylight visible through the joint) is unacceptable. Differential movement of greater than 2 inches between any two adjacent monoliths, either laterally or vertically, is unacceptable unless it can be shown that the movement is no longer active. Also, if the floodwall is of I-wall construction, then any visible or measurable tilting of the wall toward the protected side that has created an open horizontal crack on the riverside base of a monolith is unacceptable.	
6. Foundation of Concrete Structures ¹	M	A	No active erosion, scouring, or bank caving that might endanger the structure's stability.	2020-0015 : Hole on landside. (M) 2020-0018 : Hole on landside. (M) 2020-0027 : Hole on landside. (M) 2020-0039 : Holes on landside. (M) 2020-0042 : Cracking of asphalt at pillar. (M) 2020-0045 : Asphalt cracking toward wall. (M) 2020-0048 : Exposed panel base (M) 2020-0063 : Holes on landside. (M) 2020-0072 : Hole at transition. (M) 2020-0087 : Holes on landside. (M) 2020-0267 : Hole at transition, 18 inch deep. (M) 2020-0270 : 2.5 ft deep burrow on landside. (M) 2020-0279 : 3 ft hole on landside. (M) 2020-0372 : 4 ft deep burrow on landside. (M) 2020-0405 : Riprap displaced, fabric exposed. (M) 2020-0453 : 1 ft hole on landside. (M)
		M	There are areas where the ground is eroding towards the base of the structure. Efforts need to be taken to slow and repair this erosion, but it is not judged to be close enough to the structure or to be progressing rapidly enough to affect structural stability before the next inspection. For the purposes of inspection, the erosion or scour is not closer to the riverside face of the wall than twice the floodwall's underground base width if the wall is of L-wall or T-wall construction; or if the wall is of sheetpile or I-wall construction, the erosion is not closer than twice the wall's visible height. Additionally, rate of erosion is such that the wall is expected to remain stable until the next inspection.	
		U	Erosion or bank caving observed that is closer to the wall than the limits described above, or is outside these limits but may lead to structural instabilities before the next inspection. Additionally, if the floodwall is of I-wall or sheetpile construction, the foundation is unacceptable if any turf, soil or pavement material got washed away from the landside of the I-wall as the result of a previous overtopping event.	

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Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
7. Monolith Joints	M	A	The joint material is in good condition. The exterior joint sealant is intact and cracking/ desiccation is minimal. Joint filler material and/or waterstop is not visible at any point.	2020-0174 : Crack in sealant. (M)
		M	The joint material has appreciable deterioration to the point where joint filler material and/or waterstop is visible in some locations. This needs to be repaired or replaced to prevent spalling and cracking during freeze/ thaw cycles, and to ensure water tightness of the joint.	
		U	The joint material is severely deteriorated or the concrete adjacent to the monolith joints has spalled and cracked, damaging the waterstop; in either case damage has occurred to the point where it is apparent that the joint is no longer watertight and will not provide the intended level of protection during a flood.	
		N/A	There are no monolith joints in the floodwall.	
8. Underseepage Relief Wells/ Toe Drainage Systems	NA	A	Toe drainage systems and pressure relief wells necessary for maintaining FDR segment / system stability during high water functioned properly during the last flood event and no sediment is observed in horizontal system (if applicable). Nothing is observed which would indicate that the drainage systems won't function properly during the next flood, and maintenance records indicate regular cleaning. Wells have been pumped tested within the past 5 years and documentation is provided.	
		M	Toe drainage systems or pressure relief wells are damaged and may become clogged if they are not repaired. Maintenance records are incomplete or indicate irregular cleaning and pump testing.	
		U	Toe drainage systems or pressure relief wells necessary for maintaining FDR segment / system stability during flood events have fallen into disrepair or have become clogged. No maintenance records. No documentation of the required pump testing.	
		N/A	There are no relief wells/ toe drainage systems along this component of the FDR segment / system.	
9. Seepage	A	A	No evidence or history of unrepaired seepage, saturated areas, or boils.	Justification: No issues noted.
		M	Evidence or history of minor unrepaired seepage or small saturated areas at or beyond the landside toe but not on the landward slope of levee. No evidence of soil transport.	
		U	Evidence or history of active seepage, extensive saturated areas, or boils.	

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Interior Drainage System

For use during Initial and Continuing Eligibility Inspections of interior drainage systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
1. Vegetation and Obstructions	M	A	No obstructions, vegetation, debris, or sediment accumulation noted within interior drainage channels or blocking the culverts, inlets, or discharge areas. Concrete joints and weep holes are free of grass and weeds.	2020-0017 : HA-23: Vegetation at inlet. (M) 2020-0020 : HA-23: Outlet silted in. (M) 2020-0023 : HA-24: Vegetation on downstream side. (M) 2020-0024 : HA-3: Tall vegetation around structure. (M) 2020-0033 : HA-5: Tall vegetation around outlet. (M) 2020-0038 : HA-9: Logs and debris built up at outlet. (M) 2020-0089 : HA-17: Vegetation at inlet. (M) 2020-0096 : HA-7: Tall vegetation by outlet. (M) 2020-0102 : HA-9: Tall vegetation around outlet. (M) 2020-0108 : HA-11: Tall vegetation around outlet. (M) 2020-0110 : HA-38: Trees and tall vegetation around gateway. (M) 2020-0113 : HA-38: Trees around outlet. (M) 2020-0255 : HA-19: Tall vegetation around headwall. (M) 2020-0258 : HA-20: Tall vegetation. (M) 2020-0264 : Tall vegetation in ditch. (M) 2020-0285 : Vegetation and trees in ditch. (M) 2020-0288 : HA-22: Vegetation at inlet. (M) 2020-0312 : HA-24: Vegetation at inlet. (M) 2020-0318 : HA-24: Vegetation at outlet. (M) 2020-0336 : Tall vegetation and tree in ditch. (M) 2020-0417 : Trees in ditch. (M) 2020-0444 : Trees in ditch (M) 2020-0477 : HA-36: Vegetation at outlet. (M) 2020-0480 : HA-37: Vegetation around pipe. (M)
		M	Obstructions, vegetation, debris, or sediment are minor and have not impaired channel flow capacity or blocked more than 10% of any culvert openings, but should be removed. A limited volume of grass and weeds may be present in concrete channel joints and weep holes.	
		U	Obstructions, vegetation, debris, or sediment have impaired the channel flow capacity or blocked more than 10% of a culvert opening. Sediment and debris removal required to reestablish flow capacity.	
2. Encroachments	M	A	No trash, debris, unauthorized structures, excavations, or other obstructions present within the easement area. Encroachments have been previously reviewed by the Corps, and it was determined that they do not diminish proper functioning of the interior drainage system.	2020-0002 : HA 4: Graffiti on structure. (M)
		M	Trash, debris, unauthorized structures, excavations, or other obstructions present, or inappropriate activities noted that should be corrected but will not inhibit operations and maintenance or emergency operations. Encroachments have not been reviewed by the Corps.	
		U	Unauthorized encroachments or inappropriate activities noted are likely to inhibit operations and maintenance, emergency operations, or negatively impact the integrity of this component of the interior drainage system.	
3. Ponding Areas	NA	A	No trash, debris, structures, or other obstructions present within the ponding areas. Sediment deposits do not exceed 10% of capacity.	
		M	Trash, debris, excavations, structures, or other obstructions present, or inappropriate activities that will not inhibit operations and maintenance. Sediment deposits do not exceed 30% of capacity.	
		U	Trash, debris, excavations, structures, or other obstructions, or other encroachments or activities noted that will inhibit operations, maintenance, or emergency work. Sediment deposits exceeds 30% of capacity.	
		N/A	There are no ponding areas associated with the interior drainage system.	

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Interior Drainage System

For use during Initial and Continuing Eligibility Inspections of interior drainage systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
4. Fencing and Gates ¹	M	A	Fencing is in good condition and provides protection against falling or unauthorized access. Gates open and close freely, locks are in place, and there is little corrosion on metal parts.	2020-0107 : HA 20: Rails not attached. (M)
		M	Fencing or gates are damaged or corroded but appear to be maintainable. Locks may be missing or damaged.	
		U	Fencing and gates are damaged or corroded to the point that replacement is required, or potentially dangerous features are not secured.	
		N/A	There are no features noted that require safety fencing.	
5. Concrete Surfaces (Such as gatewells, outfalls, intakes, or culverts)	A	A	Negligible spalling, scaling or cracking. If the concrete surface is weathered or holds moisture, it is still satisfactory but should be seal coated to prevent freeze/ thaw damage.	Justification: No issues noted.
		M	Spalling, scaling, and open cracking present, but the immediate integrity or performance of the structure is not threatened. Reinforcing steel may be exposed. Repairs/ sealing is necessary to prevent additional damage during periods of thawing and freezing.	
		U	Surface deterioration or deep cracks present that may result in an unreliable structure. Any surface deterioration that exposes the sheet piling or lies adjacent to monolith joints may indicate underlying reinforcement corrosion and is unacceptable.	
		N/A	There are no concrete items in the interior drainage system.	
6. Tilting, Sliding or Settlement of Concrete and Sheet Pile Structures ² (Such as gate wells, outfalls, intakes, or culverts)	A	A	There are no significant areas of tilting, sliding, or settlement that would endanger the integrity of the structure.	Justification: No issues noted.
		M	There are areas of tilting, sliding, or settlement (either active or inactive) that need to be repaired. The maximum offset, either laterally or vertically, does not exceed 2 inches unless the movement can be shown to be no longer actively occurring. The integrity of the structure is not in danger.	
		U	There are areas of tilting, sliding, or settlement (either active or inactive) that threaten the structure's integrity and performance. Any movement that has resulted in failure of the waterstop (possibly identified by daylight visible through the joint) is unacceptable. Differential movement of greater than 2 inches between any two adjacent monoliths, either laterally or vertically, is unacceptable unless it can be shown that the movement is no longer active. Also, if the floodwall is of I-wall construction, then any visible or measurable tilting of the wall toward the protected side that has created an open horizontal crack on the riverside base of a monolith is unacceptable.	
		N/A	There are no concrete items in the interior drainage system.	
7. Foundation of Concrete Structures ³ (Such as culverts, inlet and discharge structures, or gatewells.)	M	A	No active erosion, scouring, or bank caving that might endanger the structure's stability.	2020-0021 : HA-4: Erosion on east side of outlet wingwall. (M) 2020-0225 : HA-17: Erosion behind headwall. (M) 2020-0252 : HA-19: Erosion next to west wingwall. (M)
		M	There are areas where the ground is eroding towards the base of the structure. Efforts need to be taken to slow and repair this erosion, but it is not judged to be close enough to the structure or to be progressing rapidly enough to affect structural stability before the next inspection. The rate of erosion is such that the structure is expected to remain stable until the next inspection.	
		U	Erosion or bank caving observed that may lead to structural instabilities before the next inspection.	
		N/A	There are no concrete items in the interior drainage system.	

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Interior Drainage System

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Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
8. Monolith Joints	A	A	The joint material is in good condition. The exterior joint sealant is intact and cracking/ desiccation is minimal. Joint filler material and/or waterstop is not visible at any point.	Justification: No issues noted.
		M	The joint material has appreciable deterioration to the point where joint filler material and/or waterstop is visible in some locations. This needs to be repaired or replaced to prevent spalling and cracking during freeze/ thaw cycles, and to ensure water tightness of the joint.	
		U	The joint material is severely deteriorated or the concrete adjacent to the monolith joints has spalled and cracked, damaging the waterstop; in either case damage has occurred to the point where it is apparent that the joint is no longer watertight and will not provide the intended level of protection during a flood.	
		N/A	There are no monolith joints in the interior drainage system.	
9. Culverts/ Discharge Pipes ⁴	M	A	There are no breaks, holes, cracks in the discharge pipes/ culverts that would result in significant water leakage. The pipe shape is still essentially circular. All joints appear to be closed and the soil tight. Corrugated metal pipes, if present, are in good condition with 100% of the original coating still in place (either asphalt or galvanizing) or have been relined with appropriate material, which is still in good condition. Condition of pipes has been verified using television camera video taping or visual inspection methods within the past five years, and the report for every pipe is available for review by the inspector.	2020-0071 : HA 14 outlet structure clear of debris (A) Justification: Camera inspection performed in June and July 2016 for the following culverts: 24-inch RCP (HA-1) 24-inch RCP (HA-2) 24-inch RCP (HA-3) 84-inch RCP (HA-4) 24-inch RCP (HA-5) 36-inch RCP (HA-6) 24-inch RCP (HA-7) - Gasket removed at joint (M) 54-inch RCP (HA-8) 24-inch RCP (HA-9) 36-inch RCP (HA-10) - Offset joint and small separation (M) 24-inch RCP (HA-11) 84-inch RCP (HA-12) 36-inch RCP (HA-13) 30-inch RCP (HA-14) 48-inch RCP (HA-15A) - Concrete obstruction (M) 36-inch RCP (HA-15B) 60-inch RCP (HA-15C) 60-inch RCP (HA-16) 36-inch RCP (HA-17) 18-inch RCP (HA-18A,B,C) - Circumferential crack in pipe (M) 24-inch RCP (HA-19) - Heavy debris, roots at joint, roots in crack (M) 48-inch RCP (HA-20) 96-inch RCP (HA-21A,B,C) 24-inch RCP (HA-22) - Circumferential crack at flap gate (M) 24-inch RCP (HA-23) - Mineral deposits at joint, circumferential crack in pipe at chamber connection (M) 24-inch RCP (HA-24) 24-inch RCP (HA-25) 54-inch RCP (HA-26A) 54-inch RCP (HA-26B) 24-inch RCP (HA-27A) 48-inch RCP (HA-27B) 54-inch RCP (HA-28) 24-inch DIP (HA-29) 24-inch RCP (HA-30) - Debris, broken pipe at joint, void visible (M) 36-inch RCP (HA-31) - Gasket exposed at joint (M) 24-inch RCP (HA-33) 24-inch RCP (HA-34) 42-inch RCP (HA-35) 24-inch RCP (HA-36) - Surface damage, gasket showing (M) Repair. Refer to the camera inspection report for more details. Next inspection should be performed in 2021.
		M	There are a small number of corrosion pinholes or cracks that could leak water and need to be repaired, but the entire length of pipe is still structurally sound and is not in danger of collapsing. Pipe shape may be ovalized in some locations but does not appear to be approaching a curvature reversal. A limited number of joints may have opened and soil loss may be beginning. Any open joints should be repaired prior to the next inspection. Corrugated metal pipes, if present, may be showing corrosion and pinholes but there are no areas with total section loss. Condition of pipes has been verified using television camera video taping or visual inspection methods within the past five years, and the report for every pipe is available for review by the inspector.	
		U	Culvert has deterioration and/or has significant leakage; it is in danger of collapsing or as already begun to collapse. Corrugated metal pipes have suffered 100% section loss in the invert. HOWEVER: Even if pipes appear to be in good condition, as judged by an external visual inspection, an Unacceptable Rating will be assigned if the condition of pipes has not been verified using television camera video taping or visual inspection methods within the past five years, and reports for all pipes are not available for review by the inspector.	
		N/A	There are no discharge pipes/ culverts.	

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Interior Drainage System

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Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
10. Sluice / Slide Gates ⁵	M	A	Gates open and close freely to a tight seal or minor leakage. Gate operators are in good working condition and are properly maintained. Sill is free of sediment and other obstructions. Gates and lifters have been maintained and are free of corrosion. Documentation provided during the inspection.	2020-0008 : HA-22b: Only works in low gear. (M) 2020-0011 : HA-22b: Base grout for pedestal is falling apart. (M) 2020-0014 : HA-23: Silt inside. (M) 2020-0026 : HA-27a: Silt inside. (M) 2020-0041 : HA-28: Debris in gatewell. (M) 2020-0047 : HA-30: Silt in gatewell. (M) 2020-0050 : HA-31: Silt in gatewell. (M) 2020-0074 : HA-35: Riser stem casing is too short with damaged weather cap. (M) 2020-0077 : HA-35: Gear housing is splitting. Possible due to trapped water freezing. (M) 2020-0083 : HA-16: Sluice gate has some debris. (M)
		M	Gates and/or operators have been damaged or have minor corrosion, and open and close with resistance or binding. Leakage quantity is controllable, but maintenance is required. Sill is free of sediment and other obstructions.	
		U	Gates do not open or close and/or operators do not function. Gate, stem, lifter and/or guides may be damaged or have major corrosion.	
		N/A	There are no sluice/ slide gates.	
11. Flap Gates/ Flap Valves/ Pinch Valves ¹	M	A	Gates/ valves open and close easily with minimal leakage, have no corrosion damage, and have been exercised and lubricated as required.	2020-0032 : HA-26: Flap gate stuck open. (M) 2020-0035 : HA-27: Flap gate stuck open. (M) 2020-0116 : HA-38: Hole in valve, water flowing. (M) 2020-0222 : HA-17: West flap gate blocked with silt. (M) 2020-0426 : HA-34: Flap gate leaking. (M) 2020-0474 : HA-36: Flap gate leaking. (M) 2020-0481 : HA-37: No gate on culvert. Coordinate with INDOT. The culvert is above 200 year elevation and within the freeboard so it is not critical to the design. This rating will not impact the overall item rating. (U)
		M	Gates/ valves will not fully open or close because of obstructions that can be easily removed, or have minor corrosion damage that requires maintenance.	
		U	Gates/ valves are missing, have been damaged, or have deteriorated to the point that they need to be replaced.	
		N/A	There are no flap gates.	
12. Trash Racks (non-mechanical)	A	A	Trash racks are fastened in place and properly maintained.	Justification: No issues noted.
		M	Trash racks are in place but are unfastened or have bent bars that allow debris to enter into the pipe or pump station, bars are corroded to the point that up to 10% of the sectional area may be lost. Repair or replacement is required.	
		U	Trash racks are missing or damaged to the extent that they are no longer functional and must be replaced. (For example, more than 10% of the sectional area may be lost.)	
		N/A	There are no trash racks, or they are covered in the pump stations section of the report.	
13. Other Metallic Items	M	A	All metal parts are protected from corrosion damage and show no rust, damage, or deterioration that would cause a safety concern.	2020-0006 : HA-1: Manhole open. (M) 2020-0053 : HA-13: Grating missing. Replace. (U) 2020-0056 : HA-35: Ladder broken. (M) 2020-0111 : HA-11: Manhole displaced. (M) 2020-0315 : HA-24: Manhole cover not on. (M)
		M	Corrosion seen on metallic parts appears to be maintainable.	
		U	Metallic parts are severely corroded and require replacement to prevent failure, equipment damage, or safety issues.	
		N/A	There are no other significant metallic items.	

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Interior Drainage System

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Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
14. Riprap Revetments of Inlet/ Discharge Areas	A	A	No riprap displacement or stone degradation that could pose an immediate threat to the integrity of channel bank. Riprap intact with no woody vegetation present.	Justification: No issues noted.
		M	Minor riprap displacement or stone degradation that could pose an immediate threat to the integrity of the channel bank. Unwanted vegetation must be cleared or sprayed with an appropriate herbicide.	
		U	Significant riprap displacement, exposure of bedding, or stone degradation observed. Scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Rock protection is hidden by dense brush, trees, or grasses.	
		N/A	There is no riprap protecting this feature of the segment / system, or riprap is discussed in another section.	
15. Revetments other than Riprap	NA	A	No riprap displacement or stone degradation that could pose an immediate threat to the integrity of channel bank. Riprap intact with no woody vegetation present.	
		M	Minor riprap displacement or stone degradation that could pose an immediate threat to the integrity of the channel bank. Unwanted vegetation must be cleared or sprayed with an appropriate herbicide.	
		U	Significant riprap displacement, exposure of bedding, or stone degradation observed. Scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Rock protection is hidden by dense brush, trees, or grasses.	
		N/A	There are no such revetments protecting this feature of the segment / system.	

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Pump Stations

For use during Initial and Continuing Eligibility Inspections of pump stations

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
1. Pump Stations Operating, Maintenance, Training, & Inspection Records	A	A	Operation, maintenance and inspection records are present at the pump station and are being used and updated, and personnel have been trained in pump station operations. Names and last training date shown in the record book.	Justification: Operation, maintenance and inspection records are present.
		M	Operation, maintenance and inspection records are present but not adequately used and updated.	
		U	No operation, maintenance and inspection records are present, or refresher training for personnel has not been conducted.	
2. Pump Station Operations and Maintenance Equipment Manuals	A	A	Operation and Maintenance Equipment Manuals and/or posted operating instructions are present and updated as required, and adequately cover all pertinent pump station features. O&M manuals include points of contact for manufacturers and suppliers of major equipment used in the facility.	2020-0001 : PS-TA: Operation manuals present. (A) 2020-0016 : PS-WA: Manuals present. (A) 2020-0043 : PS-FA: Manuals present. (A) 2020-0064 : PS-HV: Operation manuals present. (A) 2020-0097 : PS-JA: Operation manuals present. (A) 2020-0151 : PS-SS: Operation manuals present. (A) 2020-0199 : PS-IN: Operation manuals present. (A) 2020-0217 : PS-CA: Operation manuals present. (A) 2020-0232 : PS-SK: Operation manuals present. (A)
		M	Operation and Maintenance Equipment Manuals and/or posted operating instructions are present and adequately cover all pertinent pump station features. However, they are incomplete and the necessary updates have not been made.	
		U	Operation and Maintenance Equipment Manuals are not available.	
3. Safety Compliance	M	A	Safety compliance inspection reports by applicable local, state, or federal agencies available for review.	2020-0007 : PS-TA: Arc flash warning labels added. (A) 2020-0010 : PS-TA: Fluid spillage. (M) 2020-0019 : PS-WA: Needs updated arc flash warning label. (M) 2020-0022 : PS-WA: Confined space label added. (A) 2020-0037 : PS-KA: Needs confined space warning label. (M) 2020-0046 : PS-KA: Arc flash warning label added. (A) 2020-0067 : PS-HV: Arc flash warning label possibly out of date. (M) 2020-0076 : PS-HV: Needs confined space warning label. (M) 2020-0100 : PS-JA: Arc flash warning label needs updating. (M) 2020-0130 : PS-JA: Needs confined space warning label. (M) 2020-0136 : PS-JA: Safety lights do not work. (M) 2020-0142 : PS-SS: Confined space warning label added. (A) 2020-0145 : PS-SS: Arc flash warning label added. (A) 2020-0148 : PS-SS: Need arc flash warning labels in electrical room. (M) 2020-0184 : PS-IN: Update arc flash warning labels. (M) 2020-0187 : PS-IN: Confined space warning label added. (A) 2020-0220 : PS-CA: Arc flash warning label added. (A) 2020-0229 : PS-SK: Need confined space warning label. (M) 2020-0241 : PS-SK: Arc flash warning label added. (A)
		M	No safety compliance inspection reports are available for review.	
4. Communications (A or M only)	A	A	A telephone, cellular phone, two-way radio, or similar device is available to pump station operator and maintenance personnel.	Justification: A telephone, cellular phone, two-way radio, or similar device is available to pump station operator and maintenance personnel.
		M	A telephone, cellular phone, two-way radio, or similar device is not available to pump station operator and maintenance personnel.	

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Pump Stations

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Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
5. Plant Building	M	A	The building is in good structural condition with no major foundation settlement problems. The roof is not leaking, intake & exhaust louvers are clear of debris, fans are operational, etc.	2020-0004 : PS-TA: Bracket is falling off wall. (M) 2020-0013 : PS-TA: Corrosion on doors. (M) 2020-0028 : PS-WA: Growth from roof leak. (M) 2020-0031 : PS-WA: Masonry cracking in corners and above doors. (M) 2020-0049 : PS-KA: Crack in foundation. (M) 2020-0058 : PS-KA: Hatch is corroded and broken. (M) 2020-0061 : PS-KA: Exposed rebar in ceiling. (M) 2020-0073 : PS-HV: Concrete around pipe fixed. (A) 2020-0088 : PS-HV: Roof leaking. (M) 2020-0091 : PS-HV: Deteriorating seal. (M) 2020-0103 : PS-JA: Exterior stairs are spalling and toe board has come loose. (M) 2020-0106 : PS-JA: Peeling paint on ceiling. (M) 2020-0109 : PS-JA: Beams were cleaned and painted. (A) 2020-0115 : PS-JA: Rusting on lintel. Cracking above door. (M) 2020-0121 : PS-JA: Rusting on lintel. (M) 2020-0157 : PS-SS: Spalling across floor. (M) 2020-0160 : PS-SS: Paint peeling on pipe elbow. (M) 2020-0163 : PS-SS: Paint peeling on wall. (M) 2020-0166 : PS-SS: Cracking around door frame. (M) 2020-0175 : PS-SS: Rust on lintel. (M) 2020-0190 : PS-IN: Peeling paint on ducts and ceiling. (M) 2020-0193 : PS-IN: Corrosion around skylight. (M) 2020-0196 : PS-IN: Cover coming off pipe. (M) 2020-0205 : PS-IN: Spalling on floor. (M) 2020-0208 : PS-IN: Corrosion on lintel. (M) 2020-0226 : PS-CA: Corrosion on pipe. (M) 2020-0235 : PS-SK: Paint peeling off walls. (M) 2020-0250 : PS-SK: Corrosion around ceiling hatch. (M) 2020-0253 : PS-SK: Crack and corrosion around door. (M) 2020-0262 : PS-TA: Foundation split. (M) 2020-0265 : PS-TA: Stair is not connected. (M)
		M	There are minor structural defects, minimal foundation settlement, leaks, or other conditions noted that need repair. Defects do not threaten the structural integrity or stability of the building, and will not impact pumping operations.	
		U	The structural integrity or stability of the building is threatened, or there is damage to the building that threatens safety of the operator or impacts pumping operations.	
6. Fencing and Gates 1	M	A	Fencing is in good condition and provides protection against falling or unauthorized access. Gates open and close freely, locks are in place, and there is little corrosion on metal parts.	2020-0034 : PS-WA: Fence is falling over. (M)
		M	Fencing or gates are damaged or corroded but appear to be maintainable. Locks may be missing or damaged.	
		U	Fencing and gates are damaged or corroded to the point that replacement is required, or potentially dangerous features are not secured.	
		N/A	There are no features noted that require safety fencing.	

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Pump Stations

For use during Initial and Continuing Eligibility Inspections of pump stations

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
7. Pumps ¹	M	A	All pumps are properly maintained and lubricated. Systems are periodically tested and documented for review. No vibration, cavitation noises or unusual sounds are noted when the pump is operated. Bearing temperature sensor records don't indicate any problems.	2020-0025 : PS-WA: SWP-2 shows no evidence of oil leak. (A) 2020-0040 : PS-KA: Pump 1 in service . (A) 2020-0052 : PS-KA: Pump 2 oil indicator cracked. (M) 2020-0055 : PS-KA: Pump 1 has excessive corrosion. (M) 2020-0079 : PS-HV: DWP has excessive corrosion. (M) 2020-0082 : PS-HV: DWP has small active oil leak. (M) 2020-0211 : PS-IN: SWP 1 has leak. (M) 2020-0238 : PS-SK: SWP 1 has liquid pooling under the control box. (M)
		M	Minor deficiencies noted that need to be closely monitored or repaired, such as the presence of slight vibrations, leakage of packing gland, bearing temperature sensors are inoperable or no record is present. However, the pumps are operational and are expected to perform through the next period of usage.	
		U	Major deficiencies identified that may significantly reduce pumping operations. For example, bearing sensor records indicate problems, excessive vibration noted, impellers are badly corroded, or there are eroded or missing blades.	
8. Motors, Engines, Fans, Gear Reducers, Back Stop Devices, etc.	M	A	All items are operational. Preventative maintenance and lubrication is being performed and the system is periodically subjected to performance testing. Instrumentation, alarms, bearing sensors and auto shutdowns are operational.	2020-0094 : PS-HV: Ceiling fan screens need cleaning. (M) 2020-0118 : PS-JA: Exhaust fan 1 and 2 were working. (A) 2020-0169 : PS-SS: Motorized dampener EF-1 does not open during operation. (M) 2020-0172 : PS-SS: Motorized dampener EF-2 does not open during operation. (M) 2020-0223 : PS-CA: Exhaust fan inoperable. (M) 2020-0244 : PS-SK: EF-1 housing is not supported in the ceiling. (M) 2020-0247 : PS-SK: EF-2 is inoperable. (M)
		M	Systems have minor deficiencies, but are operational and will function adequately through the next flood. Bearing sensors are not operational.	
		U	One or more of the primary motors or systems is not operational, or noted deficiencies have not been corrected.	
9. Sumps / Wet well	A	A	Clear of debris, sediment, or other obstructions. Procedures are in place to remove debris accumulation during operation.	Justification: No issues noted.
		M	Debris, sediment, or other obstructions may be present and must be removed, but the sump/ wet well will function as intended during the next flood. Procedures are in place to remove debris accumulation during operation.	
		U	Large debris or excessive silt present which will hinder or damage pumps during operation, or no procedures established to remove debris accumulation during operation.	
10. Mechanical Operating Trash Rakes ¹	M	A	Drive chain, bearing, gear reducers, and other components are in good operating condition and are being properly maintained.	2020-0070 : PS-HV: Alarm problem fixed. Rakes look good. (A) 2020-0154 : PS-SS: Makes a high pitched squealing when in operation. (M)
		M	The trash rake is in need of maintenance, but is still operational.	
		U	Trash rake not operational or deficiencies will inhibit operations during the next flood event.	
		N/A	There are no mechanical trash rakes.	
11. Non-Mechanical Trash Racks	A	A	Trash racks are fastened in place and properly maintained.	Justification: No issues noted.
		M	Trash racks are in place but are unfastened or have bent bars that allow debris to enter into the pipe or pump station, bars are corroded to the point that up to 10% of the sectional area may be lost. Repair or replacement is required.	
		U	Trash racks are missing or damaged to the extent that they are no longer functional and must be replaced. (For example, more than 10% of the sectional area may be lost.)	
		N/A	There are no trash racks, or they are covered in the pump stations section of the report.	

Key: A = Acceptable. M = Minimally Acceptable; Maintenance is required. U = Unacceptable. N/A = Not Applicable. FDR = Flood Damage Reduction

Pump Stations

For use during Initial and Continuing Eligibility Inspections of pump stations

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
12. Fuel System for Pump Engines	A	A	Fuel system is operational, day tank present and operational, fuel fresh and rotated regularly.	Justification: No issues noted.
		M	Fuel system is operational and of adequate capacity, but day tank is missing or fuel is not fresh and rotated regularly.	
		U	Fuel system not functional.	
		N/A	No fuel system.	
13. Power Source	A	A	The normal power source and backup generators, if installed, are operational, properly exercised and well maintained. Surge protection, grounding, lightning protection, transformers, and automatic/manual transfer of main power to backup system is working.	Justification: No issues noted.
		M	Normal power source and backup units, if applicable, are operational with minor discrepancies or maintenance, inspection and exercising record is present but not up to date. Preventative maintenance or repairs are required.	
		U	Normal power source or generators are not operational and must be repaired; or generator, if required, is not on site.	
14. Electrical Systems ₂	A	A	Operational and maintained free of damage, corrosion, and debris. Preventative maintenance and system testing is being performed periodically.	Justification: No issues noted.
		M	Operational with minor discrepancies. Preventative maintenance or repairs are required, but the components are expected to function adequately during the next flood event.	
		U	Components of the electrical system will not function adequately during the next flood event and must be replaced.	
15. Megger Testing on Pump Motors and Critical Power Cables	M	A	Results of megger tests on pump motors or critical power cables show that the insulation meets manufacturer's or industry standards. Tested within the last year.	Justification: Megger testing performed in 2018.
		M	Megger testing not conducted within the past year. If megger tests on pump motors indicate that insulation resistance is below the manufacturer's or industry standard, but the resistance can be corrected with proper application of heat, this is minimally acceptable. (The application of heat does not relate to critical power cables.)	
		U	Megger tests not conducted within past two years, or tests indicate that insulation resistance is low enough that the equipment will not be able to meet design standards of operation; or evidence of arcing or shorting is detected visually.	
16. Enclosures, Panels, Conduit and Ducts	M	A	All enclosures, panels, conduits, and ducts are protected from corrosion damage and show no rust, damage, or deterioration that would cause a safety concern.	2020-0127 : PS-JA: Elbow is heavily corroded. (M) 2020-0133 : PS-JA: Rusting of shroud. Needs cleaning. (M) 2020-0202 : PS-IN: Insulation coming off pipe. (M) 2020-0214 : PS-IN: Nest in vent. (M) 2020-0256 : PS-SK: Broken screen. (M) 2020-0259 : PS-SK: Clean screen. (M)
		M	Minor surface corrosion which appears to be maintainable. Cleaning and painting required.	
		U	Severely corroded and must be replaced to prevent failure, equipment damage, or safety issues.	
17. Intake and Discharge Pipelines	A	A	Intake and discharge pipelines have no corrosion and paint is intact, except for minor touch up required. Pipe couplings and anchors have no leakage or corrosion.	Justification: No issues noted.
		M	Intake and discharge pipelines have minor corrosion and repair and painting is required. Pipe coupling with anchors have minor leakage, corrosion and require bolts to be tightened.	
		U	Intake and discharge pipelines have major corrosion and replacement is required. Pipe coupling with anchors have major leakage and is heavily corroded and requires replacement.	

Key: A = Acceptable. M = Minimally Acceptable; Maintenance is required. U = Unacceptable. N/A = Not Applicable. FDR = Flood Damage Reduction

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**Flood Damage Reduction Segments / Systems
Inspection Report**

**Pump Stations
Page 4 of 5**

Pump Stations

For use during Initial and Continuing Eligibility Inspections of pump stations

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
18. Sluice/ Slide Gates ³	M	A	Gates open and close freely to a tight seal or minor leakage. Gate operators are in good working condition and are properly maintained. Sill is free of sediment and other obstructions. Gates and lifters have been maintained and are free of corrosion. Documentation provided during the inspection.	2020-0112 : PS-JA: Valve was operated successfully. (A) 2020-0124 : PS-JA: Sluice gate is in operation. (A) 2020-0178 : PS-SS: Sluice gate is non operational. (M)
		M	Gates and/or operators have been damaged or have minor corrosion, and open and close with resistance or binding. Leakage quantity is controllable, but maintenance is required. Sill is free of sediment and other obstructions.	
		U	Gates do not open or close and/or operators do not function. Gate, stem, lifter and/or guides may be damaged or have major corrosion.	
		N/A	There are no sluice/ slide gates.	
19. Flap Gates/ Flap Valves/ Pinch Valves ¹	A	A	Gates/ valves open and close easily with minimal leakage, have no corrosion damage, and have been exercised and lubricated as required.	Justification: No issues noted.
		M	Gates/ valves will not fully open or close because of obstructions that can be easily removed, or have minor corrosion damage that requires maintenance.	
		U	Gates/ valves are missing, have been damaged, or have deteriorated to the point that they need to be replaced.	
		N/A	There are no gates on discharge lines from pump station.	
20. Cranes ¹	A	A	Cranes operational and have been inspected and load tested in accordance with applicable standards within the last year. Documentation is on hand.	Justification: No issues noted.
		M	Cranes have not been inspected or operationally tested within the past year, or there are visible signs of corrosion, oil leakage, etc, requiring maintenance.	
		U	Cranes are not operational, and this may prevent the pump station from functioning as required. No documentation available on cranes.	
		N/A	There are no cranes.	
21. Other Metallic Items (Equipment, Ladders, Platform Anchors, etc)	M	A	All metal parts are protected from corrosion damage and show no rust, damage, or deterioration that would cause a safety concern.	2020-0085 : PS-HV: Excessive corrosion. (M) 2020-0139 : PS-JA: Rusting on top of oil reservoir. Needs cleaning. (M)
		M	Corrosion seen on metallic parts appears to be maintainable.	
		U	Metallic parts are severely corroded and require replacement to prevent failure, equipment damage, or safety issues.	
		N/A	There are no other significant metallic items.	

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Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0003 **Title:** 2604000008_CELRC_2020_A_0003_1_20200707T121341.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tall vegetation on crest and slopes.



Inspect ID: 2020-0075 **Title:** 2604000008_CELRC_2020_A_0075_1_20200707T134115.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Trees on riverside toe.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0078 **Title:** 2604000008_CELRC_2020_A_0078_1_20200707T134212.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tall vegetation on landside toe.



Inspect ID: 2020-0084 **Title:** 2604000008_CELRC_2020_A_0084_1_20200707T134551.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tall vegetation on riverside toe.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0099 **Title:** 2604000008_CELRC_2020_A_0099_1_20200707T135423.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Acceptable - Acceptable vegetation on slopes.



Inspect ID: 2020-0105 **Title:** 2604000008_CELRC_2020_A_0105_1_20200707T140557.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tall vegetation and trees on riverside toe.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0117 **Title:** 2604000008_CELRC_2020_A_0117_1_20200707T141502.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tall trees on riverside slope.



Inspect ID: 2020-0119 **Title:** 2604000008_CELRC_2020_A_2020-0119_1_20200708T160615.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Trees on riverside slope.

Photos

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Inspect ID: 2020-0219 **Title:** 2604000008_CELRC_2020_A_0219_1_20200707T145457.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tall vegetation on riverside toe.



Inspect ID: 2020-0228 **Title:** 2604000008_CELRC_2020_A_0228_1_20200707T150524.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tall vegetation and trees on landside toe.

Photos

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Inspect ID: 2020-0237 **Title:** 2604000008_CELRC_2020_A_0237_1_20200707T150922.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tall vegetation and trees on riverside toe.



Inspect ID: 2020-0240 **Title:** 2604000008_CELRC_2020_A_0240_1_20200707T151336.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Trees on riverside toe.

Photos

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Inspect ID: 2020-0261 **Title:** 2604000008_CELRC_2020_A_0261_1_20200707T153521.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tall vegetation on riverside toe.



Inspect ID: 2020-0294 **Title:** 2604000008_CELRC_2020_A_0294_1_20200707T155619.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Small vegetation along sheetpile retaining wall.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0306 **Title:** 2604000008_CELRC_2020_A_0306_1_20200707T161419.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tall vegetation on riverside toe.



Inspect ID: 2020-0309 **Title:** 2604000008_CELRC_2020_A_0309_1_20200707T161548.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tall vegetation and trees on riverside toe.

Photos

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Inspect ID: 2020-0321 **Title:** 2604000008_CELRC_2020_A_0321_1_20200707T162152.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Trees on riverside toe.



Inspect ID: 2020-0330 **Title:** 2604000008_CELRC_2020_A_0330_1_20200707T171945.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tall vegetation and trees on riverside toe.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

	<p>Inspect ID: 2020-0333 Title: 2604000008_CELRC_2020_A_0333_1_20200707T172041.jpg Rated Item: 1. Unwanted Vegetation Growth Caption: Minimally Acceptable - Tall vegetation on riverside toe.</p>
	<p>Inspect ID: 2020-0339 Title: 2604000008_CELRC_2020_A_0339_1_20200707T172404.jpg Rated Item: 1. Unwanted Vegetation Growth Caption: Minimally Acceptable - Tall vegetation and trees on riverside toe.</p>

Photos

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Inspect ID: 2020-0366 **Title:** 2604000008_CELRC_2020_A_0366_1_20200707T174412.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tall vegetation on riverside toe.



Inspect ID: 2020-0369 **Title:** 2604000008_CELRC_2020_A_0369_1_20200707T174638.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tall vegetation and trees on landside toe.

Photos

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Inspect ID: 2020-0381 **Title:** 2604000008_CELRC_2020_A_0381_1_20200707T175413.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tall vegetation on landside toe.



Inspect ID: 2020-0432 **Title:** 2604000008_CELRC_2020_A_0432_1_20200707T182016.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Trees on riverside slope.

Photos

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	Inspect ID: 2020-0438 Title: 2604000008_CELRC_2020_A_0438_1_20200707T182148.jpg Rated Item: 1. Unwanted Vegetation Growth Caption: Minimally Acceptable - Trees on riverside toe.
	Inspect ID: 2020-0471 Title: 2604000008_CELRC_2020_A_0471_1_20200707T184649.jpg Rated Item: 1. Unwanted Vegetation Growth Caption: Minimally Acceptable - Large trees and tall vegetation on slope.

Photos

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Inspect ID: 2020-0450 **Title:** 2604000008_CELRC_2020_A_0450_1_20200707T182637.jpg **Rated Item:** 2. Sod Cover **Caption:** Acceptable - Good sod cover.



Inspect ID: 2020-0081 **Title:** 2604000008_CELRC_2020_A_0081_1_20200707T134312.jpg **Rated Item:** 3. Encroachments **Caption:** Minimally Acceptable - Posts and rope along the landside toe.

Photos

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Inspect ID: 2020-0114 **Title:** 2604000008_CELRC_2020_A_0114_1_20200707T141433.jpg **Rated Item:** 3. Encroachments **Caption:** Minimally Acceptable - Large logs on riverside slope. Prevented mowing and allowed trees to grow.



Inspect ID: 2020-0204 **Title:** 2604000008_CELRC_2020_A_0204_1_20200707T144751.jpg **Rated Item:** 3. Encroachments **Caption:** Minimally Acceptable - Shopping cart on riverside slope.

Photos

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Inspect ID: 2020-0207 **Title:** 2604000008_CELRC_2020_A_0207_1_20200707T144946.jpg **Rated Item:** 3. Encroachments **Caption:** Minimally Acceptable - Woody debris on riverside slope.



Inspect ID: 2020-0354 **Title:** 2604000008_CELRC_2020_A_0354_1_20200707T173721.jpg **Rated Item:** 3. Encroachments **Caption:** Minimally Acceptable - Downed trees on landside toe.

Photos

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Inspect ID: 2020-0378 **Title:** 2604000008_CELRC_2020_A_0378_1_20200707T175330.jpg **Rated Item:** 3. Encroachments **Caption:** Minimally Acceptable - Concrete debris on landside toe.



Inspect ID: 2020-0399 **Title:** 2604000008_CELRC_2020_A_0399_1_20200707T180214.jpg **Rated Item:** 3. Encroachments **Caption:** Minimally Acceptable - Concrete blocks across levee.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0249 **Title:** 2604000008_CELRC_2020_A_0249_1_20200707T151715.jpg **Rated Item:** 6. Erosion/ Bank Caving **Caption:** Minimally Acceptable - 1 ft scarp on riverside toe.



Inspect ID: 2020-0348 **Title:** 2604000008_CELRC_2020_A_0348_1_20200707T173401.jpg **Rated Item:** 6. Erosion/ Bank Caving **Caption:** Minimally Acceptable - Erosion at toe.

Photos

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Inspect ID: 2020-0357 **Title:** 2604000008_CELRC_2020_A_0357_1_20200707T173824.jpg **Rated Item:** 6. Erosion/ Bank Caving **Caption:** Minimally Acceptable - Erosion at toe.



Inspect ID: 2020-0009 **Title:** 2604000008_CELRC_2020_A_0009_1_20200707T121531.jpg **Rated Item:** 8. Depressions/ Rutting **Caption:** Minimally Acceptable - Rutting on landside slope.

Photos

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Inspect ID: 2020-0030 **Title:** 2604000008_CELRC_2020_A_0030_1_20200707T132543.jpg **Rated Item:** 8. Depressions/ Rutting **Caption:** Minimally Acceptable - Rutting on landside toe.



Inspect ID: 2020-0345 **Title:** 2604000008_CELRC_2020_A_0345_1_20200707T172629.jpg **Rated Item:** 8. Depressions/ Rutting **Caption:** Minimally Acceptable - Levee eroded at transition.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0390 **Title:** 2604000008_CELRC_2020_A_0390_1_20200707T175809.jpg **Rated Item:** 8. Depressions/ Rutting **Caption:** Minimally Acceptable - Deep ruts on crest.



Inspect ID: 2020-0435 **Title:** 2604000008_CELRC_2020_A_0435_1_20200707T182041.jpg **Rated Item:** 8. Depressions/ Rutting **Caption:** Minimally Acceptable - Rutting on landside toe.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0447 **Title:** 2604000008_CELRC_2020_A_0447_1_20200707T182607.jpg **Rated Item:** 8. Depressions/ Rutting **Caption:** Minimally Acceptable - Rut on riverside slope.



Inspect ID: 2020-0231 **Title:** 2604000008_CELRC_2020_A_0231_1_20200707T150718.jpg **Rated Item:** 9. Cracking **Caption:** Minimally Acceptable - Transverse crack in pavement. Investigate.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0234 **Title:** 2604000008_CELRC_2020_A_0234_1_20200707T150830.jpg **Rated Item:** 9. Cracking **Caption:** Minimally Acceptable - Transverse crack in pavement. Investigate.



Inspect ID: 2020-0246 **Title:** 2604000008_CELRC_2020_A_0246_1_20200707T151612.jpg **Rated Item:** 10. Animal Control **Caption:** Minimally Acceptable - 18 inch deep burrow on riverside slope.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0468 **Title:** 2604000008_CELRC_2020_A_0468_1_20200707T184551.jpg **Rated Item:** 10. Animal Control **Caption:** Minimally Acceptable - Three burrows on crest, two feet deep.



Inspect ID: 2020-0210 **Title:** 2604000008_CELRC_2020_A_0210_1_20200707T145033.jpg **Rated Item:** 12. Riprap Revetments & Bank Protection **Caption:** Minimally Acceptable - Missing riprap on upper half of slope .

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0213 **Title:** 2604000008_CELRC_2020_A_0213_1_20200707T145116.jpg **Rated Item:** 13. Revetments other than Riprap **Caption:** Minimally Acceptable - Missing stone from gabion on west side of control structure.



Inspect ID: 2020-0216 **Title:** 2604000008_CELRC_2020_A_0216_1_20200707T145258.jpg **Rated Item:** 13. Revetments other than Riprap **Caption:** Minimally Acceptable - Broken gabion basket.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0012 **Title:** 2604000008_CELRC_2020_A_0012_1_20200707T121951.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Trees on riverside.



Inspect ID: 2020-0054 **Title:** 2604000008_CELRC_2020_A_0054_1_20200707T133634.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tall vegetation on riverside.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0120 **Title:** 2604000008_CELRC_2020_A_0120_1_20200707T141712.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tree on riverside.



Inspect ID: 2020-0129 **Title:** 2604000008_CELRC_2020_A_0129_1_20200707T142019.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Trees on riverside.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0150 **Title:** 2604000008_CELRC_2020_A_0150_1_20200707T142725.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Trees on riverside.



Inspect ID: 2020-0153 **Title:** 2604000008_CELRC_2020_A_0153_1_20200707T142946.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Small trees in riprap.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0177 **Title:** 2604000008_CELRC_2020_A_0177_1_20200707T143731.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Trees on riverside.



Inspect ID: 2020-0189 **Title:** 2604000008_CELRC_2020_A_0189_1_20200707T144152.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Trees on riverside.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0198 **Title:** 2604000008_CELRC_2020_A_0198_1_20200707T144533.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Trees on riverside.



Inspect ID: 2020-0243 **Title:** 2604000008_CELRC_2020_A_0243_1_20200707T151444.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tree on landside.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0273 **Title:** 2604000008_CELRC_2020_A_0273_1_20200707T154503.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Small tree on riverside.



Inspect ID: 2020-0276 **Title:** 2604000008_CELRC_2020_A_0276_1_20200707T154558.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tree on riverside.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0282 **Title:** 2604000008_CELRC_2020_A_0282_1_20200707T154753.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tree on landside.



Inspect ID: 2020-0300 **Title:** 2604000008_CELRC_2020_A_0300_1_20200707T160325.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tall vegetation on riverside.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0303 **Title:** 2604000008_CELRC_2020_A_0303_1_20200707T161227.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tall vegetation on landside.



Inspect ID: 2020-0420 **Title:** 2604000008_CELRC_2020_A_0420_1_20200707T181507.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tall vegetation on riverside.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0456 **Title:** 2604000008_CELRC_2020_A_0456_1_20200707T183001.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Small tree on riverside.



Inspect ID: 2020-0462 **Title:** 2604000008_CELRC_2020_A_0462_1_20200707T183419.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Trees on landside.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0465 **Title:** 2604000008_CELRC_2020_A_0465_1_20200707T184239.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tall trees on riverside.



Inspect ID: 2020-0093 **Title:** 2604000008_CELRC_2020_A_0093_1_20200707T135014.jpg **Rated Item:** 2. Encroachments **Caption:** Minimally Acceptable - Sandbags on riverside.

Photos

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Inspect ID: 2020-0402 **Title:** 2604000008_CELRC_2020_A_0402_1_20200707T180426.jpg **Rated Item:** 2. Encroachments **Caption:** Minimally Acceptable - Riprap moved on riverside.



Inspect ID: 2020-0411 **Title:** 2604000008_CELRC_2020_A_0411_1_20200707T181001.jpg **Rated Item:** 2. Encroachments **Caption:** Minimally Acceptable - Debris on landside.

Photos

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Inspect ID: 2020-0423 **Title:** 2604000008_CELRC_2020_A_0423_1_20200707T181544.jpg **Rated Item:** 2. Encroachments **Caption:** Minimally Acceptable - Debris on landside.



Inspect ID: 2020-0429 **Title:** 2604000008_CELRC_2020_A_0429_1_20200707T181916.jpg **Rated Item:** 2. Encroachments **Caption:** Minimally Acceptable - Debris on landside.

Photos

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Inspect ID: 2020-0459 **Title:** 2604000008_CELRC_2020_A_0459_1_20200707T183333.jpg **Rated Item:** 2. Encroachments **Caption:** Minimally Acceptable - Debris on landside.



Inspect ID: 2020-0297 **Title:** 2604000008_CELRC_2020_A_0297_1_20200707T160223.jpg **Rated Item:** 3. Closure Structures (Stop Log Closures and Gates) (A or U only) **Caption:** Acceptable - Rubber seal missing at railroad. Last exercise performed in 2013. Exercise overdue.

Photos

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Inspect ID: 2020-0324 **Title:** 2604000008_CELRC_2020_A_0324_1_20200707T162359.jpg **Rated Item:** 3. Closure Structures (Stop Log Closures and Gates) (A or U only) **Caption:** Acceptable - Guardrail blocking west sill at Kennedy. Last exercise performed in 2016. Perform next exercise in 2021.



Inspect ID: 2020-0327 **Title:** 2604000008_CELRC_2020_A_0327_1_20200707T171846.jpg **Rated Item:** 3. Closure Structures (Stop Log Closures and Gates) (A or U only) **Caption:** Acceptable - Vegetation on east sill at Kennedy.

Photos

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Inspect ID: 2020-0126 **Title:** 2604000008_CELRC_2020_A_0126_1_20200707T141838.jpg **Rated Item:** 4. Concrete Surfaces **Caption:** Minimally Acceptable - Spalling on cap.



Inspect ID: 2020-0135 **Title:** 2604000008_CELRC_2020_A_0135_1_20200707T142135.jpg **Rated Item:** 4. Concrete Surfaces **Caption:** Minimally Acceptable - Broken concrete cap.

Photos

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Inspect ID: 2020-0162 **Title:** 2604000008_CELRC_2020_A_0162_1_20200707T143223.jpg **Rated Item:** 4. Concrete Surfaces **Caption:** Minimally Acceptable - Spalling on cap.



Inspect ID: 2020-0192 **Title:** 2604000008_CELRC_2020_A_0192_1_20200707T144341.jpg **Rated Item:** 4. Concrete Surfaces **Caption:** Minimally Acceptable - Exposed rebar on cap.

Photos

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Inspect ID: 2020-0375 **Title:** 2604000008_CELRC_2020_A_0375_1_20200707T175124.jpg **Rated Item:** 4. Concrete Surfaces **Caption:** Minimally Acceptable - Spalling on riverside face.



Inspect ID: 2020-0015 **Title:** 2604000008_CELRC_2020_A_0015_1_20200707T122345.jpg **Rated Item:** 6. Foundation of Concrete Structures **Caption:** Minimally Acceptable - Hole on landside.

Photos

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Inspect ID: 2020-0018 **Title:**
2604000008_CELRC_2020_A_0018_1_20200707T122615.jpg **Rated**
Item: 6. Foundation of Concrete Structures **Caption:** Minimally
Acceptable - Hole on landside.



Inspect ID: 2020-0027 **Title:**
2604000008_CELRC_2020_A_0027_1_20200707T132323.jpg **Rated**
Item: 6. Foundation of Concrete Structures **Caption:** Minimally
Acceptable - Hole on landside.

Photos

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Inspect ID: 2020-0039 **Title:** 2604000008_CELRC_2020_A_0039_1_20200707T133126.jpg **Rated Item:** 6. Foundation of Concrete Structures **Caption:** Minimally Acceptable - Holes on landside.



Inspect ID: 2020-0042 **Title:** 2604000008_CELRC_2020_A_0042_1_20200707T133217.jpg **Rated Item:** 6. Foundation of Concrete Structures **Caption:** Minimally Acceptable - Cracking of asphalt at pillar.

Photos

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Inspect ID: 2020-0045 **Title:**
2604000008_CELRC_2020_A_0045_1_20200707T133327.jpg **Rated**
Item: 6. Foundation of Concrete Structures **Caption:** Minimally
Acceptable - Asphalt cracking toward wall.



Inspect ID: 2020-0048 **Title:**
2604000008_CELRC_2020_A_0048_1_20200707T133414.jpg **Rated**
Item: 6. Foundation of Concrete Structures **Caption:** Minimally
Acceptable - Exposed panel base

Photos

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Inspect ID: 2020-0063 **Title:** 2604000008_CELRC_2020_A_0063_1_20200707T133911.jpg **Rated**
Item: 6. Foundation of Concrete Structures **Caption:** Minimally
Acceptable - Holes on landside.



Inspect ID: 2020-0072 **Title:** 2604000008_CELRC_2020_A_0072_1_20200707T134028.jpg **Rated**
Item: 6. Foundation of Concrete Structures **Caption:** Minimally
Acceptable - Hole at transition.

Photos

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Inspect ID: 2020-0087 **Title:** 2604000008_CELRC_2020_A_0087_1_20200707T134740.jpg **Rated Item:** 6. Foundation of Concrete Structures **Caption:** Minimally Acceptable - Holes on landside.



Inspect ID: 2020-0267 **Title:** 2604000008_CELRC_2020_A_0267_1_20200707T153829.jpg **Rated Item:** 6. Foundation of Concrete Structures **Caption:** Minimally Acceptable - Hole at transition, 18 inch deep.

Photos

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Inspect ID: 2020-0270 **Title:** 2604000008_CELRC_2020_A_0270_1_20200707T154010.jpg **Rated Item:** 6. Foundation of Concrete Structures **Caption:** Minimally Acceptable - 2.5 ft deep burrow on landside.



Inspect ID: 2020-0279 **Title:** 2604000008_CELRC_2020_A_0279_1_20200707T154659.jpg **Rated Item:** 6. Foundation of Concrete Structures **Caption:** Minimally Acceptable - 3 ft hole on landside.

Photos

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Inspect ID: 2020-0372 **Title:** 2604000008_CELRC_2020_A_0372_1_20200707T174947.jpg **Rated Item:** 6. Foundation of Concrete Structures **Caption:** Minimally Acceptable - 4 ft deep burrow on landside.



Inspect ID: 2020-0405 **Title:** 2604000008_CELRC_2020_A_0405_1_20200707T180617.jpg **Rated Item:** 6. Foundation of Concrete Structures **Caption:** Minimally Acceptable - Riprap displaced, fabric exposed.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0453 **Title:** 2604000008_CELRC_2020_A_0453_1_20200707T182806.jpg **Rated Item:** 6. Foundation of Concrete Structures **Caption:** Minimally Acceptable - 1 ft hole on landside.



Inspect ID: 2020-0174 **Title:** 2604000008_CELRC_2020_A_0174_1_20200707T143644.jpg **Rated Item:** 7. Monolith Joints **Caption:** Minimally Acceptable - Crack in sealant.

Photos

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Inspect ID: 2020-0017 **Title:** 2604000008_CELRC_2020_A_0017_1_20200904T153810.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-23: Vegetation at inlet.



Inspect ID: 2020-0020 **Title:** 2604000008_CELRC_2020_A_0020_1_20200904T153939.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-23: Outlet silted in.

Photos

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Inspect ID: 2020-0023 **Title:** 2604000008_CELRC_2020_A_0023_1_20200904T154338.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-24: Vegetation on downstream side.



Inspect ID: 2020-0024 **Title:** 2604000008_CELRC_2020_A_0024_1_20200707T123226.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-3: Tall vegetation around structure.

Photos

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Inspect ID: 2020-0033 **Title:** 2604000008_CELRC_2020_A_0033_1_20200707T132815.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-5: Tall vegetation around outlet.



Inspect ID: 2020-0038 **Title:** 2604000008_CELRC_2020_A_0038_1_20200707T144832.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-9: Logs and debris built up at outlet.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0089 **Title:** 2604000008_CELRC_2020_A_0089_2_20200707T163454.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-17: Vegetation at inlet.



Inspect ID: 2020-0096 **Title:** 2604000008_CELRC_2020_A_0096_1_20200707T135118.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-7: Tall vegetation by outlet.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems





Inspect ID: 2020-0102 **Title:** 2604000008_CELRC_2020_A_0102_1_20200707T135939.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-9: Tall vegetation around outlet.



Inspect ID: 2020-0108 **Title:** 2604000008_CELRC_2020_A_0108_2_20200707T140713.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-11: Tall vegetation around outlet.

Photos

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	<p>Inspect ID: 2020-0110 Title: 2604000008_CELRC_2020_A_0110_1_20200708T155957.jpg Rated Item: 1. Vegetation and Obstructions Caption: Minimally Acceptable - HA-38: Trees and tall vegetation around gatewell.</p>
	<p>Inspect ID: 2020-0113 Title: 2604000008_CELRC_2020_A_0113_1_20200708T160121.jpg Rated Item: 1. Vegetation and Obstructions Caption: Minimally Acceptable - HA-38: Trees around outlet.</p>

Photos

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	Inspect ID: 2020-0255 Title: 2604000008_CELRC_2020_A_0255_1_20200909T183915.jpg Rated Item: 1. Vegetation and Obstructions Caption: Minimally Acceptable - HA-19: Tall vegetation around headwall.
	Inspect ID: 2020-0258 Title: 2604000008_CELRC_2020_A_0258_1_20200707T152536.jpg Rated Item: 1. Vegetation and Obstructions Caption: Minimally Acceptable - HA-20: Tall vegetation.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems





Inspect ID: 2020-0264 **Title:** 2604000008_CELRC_2020_A_0264_1_20200707T153627.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - Tall vegetation in ditch.



Inspect ID: 2020-0285 **Title:** 2604000008_CELRC_2020_A_0285_1_20200707T154956.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - Vegetation and trees in ditch.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

	<p>Inspect ID: 2020-0288 Title: 2604000008_CELRC_2020_A_0288_1_20200707T155042.jpg Rated Item: 1. Vegetation and Obstructions Caption: Minimally Acceptable - HA-22: Vegetation at inlet.</p>
	<p>Inspect ID: 2020-0312 Title: 2604000008_CELRC_2020_A_0312_1_20200707T161815.jpg Rated Item: 1. Vegetation and Obstructions Caption: Minimally Acceptable - HA-24: Vegetation at inlet.</p>

Photos

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Inspect ID: 2020-0318 **Title:** 2604000008_CELRC_2020_A_0318_1_20200707T161932.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-24: Vegetation at outlet.



Inspect ID: 2020-0336 **Title:** 2604000008_CELRC_2020_A_0336_1_20200707T172123.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - Tall vegetation and tree in ditch.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0417 **Title:** 2604000008_CELRC_2020_A_0417_1_20200707T181309.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - Trees in ditch.



Inspect ID: 2020-0444 **Title:** 2604000008_CELRC_2020_A_0444_1_20200707T182446.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - Trees in ditch

Photos

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Inspect ID: 2020-0477 **Title:** 2604000008_CELRC_2020_A_0477_1_20200707T184846.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-36: Vegetation at outlet.



Inspect ID: 2020-0480 **Title:** 2604000008_CELRC_2020_A_0480_1_20200707T185128.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-37: Vegetation around pipe.

Photos

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Inspect ID: 2020-0002 **Title:** 2604000008_CELRC_2020_A_0002_1_20200707T132520.jpg **Rated Item:** 2. Encroachments **Caption:** Minimally Acceptable - HA 4: Graffiti on structure.



Inspect ID: 2020-0107 **Title:** 2604000008_CELRC_2020_A_0107_1_20200707T181546.jpg **Rated Item:** 4. Fencing and Gates **Caption:** Minimally Acceptable - HA 20: Rails not attached.

Photos

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Inspect ID: 2020-0021 **Title:** 2604000008_CELRC_2020_A_0021_1_20200707T122719.jpg **Rated Item:** 7. Foundation of Concrete Structures (Such as culverts, inlet and discharge structures, or gateways.) **Caption:** Minimally Acceptable - HA-4: Erosion on east side of outlet wingwall.



Inspect ID: 2020-0225 **Title:** 2604000008_CELRC_2020_A_0225_1_20200707T145928.jpg **Rated Item:** 7. Foundation of Concrete Structures (Such as culverts, inlet and discharge structures, or gateways.) **Caption:** Minimally Acceptable - HA-17: Erosion behind headwall.

Photos

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Inspect ID: 2020-0252 **Title:** 2604000008_CELRC_2020_A_0252_1_20200707T151836.jpg **Rated Item:** 7. Foundation of Concrete Structures (Such as culverts, inlet and discharge structures, or gateways.) **Caption:** Minimally Acceptable - HA-19: Erosion next to west wingwall.



Inspect ID: 2020-0071 **Title:** 2604000008_CELRC_2020_A_0071_1_20200707T153709.jpg **Rated Item:** 9. Culverts/ Discharge Pipes **Caption:** Acceptable - HA 14 outlet structure clear of debris

Photos

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Inspect ID: 2020-0008 **Title:** 2604000008_CELRC_2020_A_0008_1_20200904T152918.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Minimally Acceptable - HA-22b: Only works in low gear.



Inspect ID: 2020-0011 **Title:** 2604000008_CELRC_2020_A_0011_1_20200904T153118.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Minimally Acceptable - HA-22b: Base grout for pedestal is falling apart.

Photos

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Inspect ID: 2020-0014 **Title:** 2604000008_CELRC_2020_A_0014_1_20200904T153541.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Minimally Acceptable - HA-23: Silt inside.



Inspect ID: 2020-0026 **Title:** 2604000008_CELRC_2020_A_0026_1_20200904T155310.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Minimally Acceptable - HA-27a: Silt inside.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0041 **Title:** 2604000008_CELRC_2020_A_0041_1_20200904T182928.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Minimally Acceptable - HA-28: Debris in gatewell.



Inspect ID: 2020-0047 **Title:** 2604000008_CELRC_2020_A_0047_1_20200904T183459.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Minimally Acceptable - HA-30: Silt in gatewell.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0050 **Title:** 2604000008_CELRC_2020_A_0050_1_20200904T183844.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Minimally Acceptable - HA-31: Silt in gatewell.



Inspect ID: 2020-0074 **Title:** 2604000008_CELRC_2020_A_0074_1_20200904T190017.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Minimally Acceptable - HA-35: Riser stem casing is too short with damaged weather cap.

Photos

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Inspect ID: 2020-0077 **Title:** 2604000008_CELRC_2020_A_0077_1_20200904T190137.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Minimally Acceptable - HA-35: Gear housing is splitting. Possible due to trapped water freezing.



Inspect ID: 2020-0077 **Title:** 2604000008_CELRC_2020_A_0077_2_20200904T190153.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Minimally Acceptable - HA-35: Gear housing is splitting. Possible due to trapped water freezing.

Photos

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Inspect ID: 2020-0083 **Title:** 2604000008_CELRC_2020_A_0083_1_20200707T161912.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Minimally Acceptable - HA-16: Sluice gate has some debris.



Inspect ID: 2020-0032 **Title:** 2604000008_CELRC_2020_A_0032_1_20200904T185811.jpg **Rated Item:** 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Minimally Acceptable - HA-26: Flap gate stuck open.

Photos

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Inspect ID: 2020-0035 **Title:** 2604000008_CELRC_2020_A_0035_1_20200904T182415.jpg **Rated Item:** 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Minimally Acceptable - HA-27: Flap gate stuck open.



Inspect ID: 2020-0116 **Title:** 2604000008_CELRC_2020_A_0116_1_20200708T160155.jpg **Rated Item:** 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Minimally Acceptable - HA-38: Hole in valve, water flowing.

Photos

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Inspect ID: 2020-0222 **Title:** 2604000008_CELRC_2020_A_0222_1_20200707T145821.jpg **Rated**
Item: 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Minimally
Acceptable - HA-17: West flap gate blocked with silt.



Inspect ID: 2020-0426 **Title:** 2604000008_CELRC_2020_A_0426_1_20200707T181704.jpg **Rated**
Item: 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Minimally
Acceptable - HA-34: Flap gate leaking.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0474 **Title:** 2604000008_CELRC_2020_A_0474_1_20200707T184800.jpg **Rated Item:** 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Minimally Acceptable - HA-36: Flap gate leaking.



Inspect ID: 2020-0481 **Title:** 2604000008_CELRC_2020_A_0481_1_20200916T161015.jpg **Rated Item:** 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Unacceptable - HA-37: No gate on culvert. Coordinate with INDOT. The culvert is above 200 year elevation and within the freeboard so it is not critical to the design. This rating will not impact the overall item rating.

Photos

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Inspect ID: 2020-0006 **Title:** 2604000008_CELRC_2020_A_0006_1_20200707T121439.jpg **Rated Item:** 13. Other Metallic Items **Caption:** Minimally Acceptable - HA-1: Manhole open.



Inspect ID: 2020-0053 **Title:** 2604000008_CELRC_2020_A_0053_1_20200707T151804.jpg **Rated Item:** 13. Other Metallic Items **Caption:** Unacceptable - HA-13: Grating missing. Replace.

Photos

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Inspect ID: 2020-0056 **Title:** 2604000008_CELRC_2020_A_0056_1_20200904T185111.jpg **Rated Item:** 13. Other Metallic Items **Caption:** Minimally Acceptable - HA-35: Ladder broken.



Inspect ID: 2020-0111 **Title:** 2604000008_CELRC_2020_A_0111_1_20200707T140839.jpg **Rated Item:** 13. Other Metallic Items **Caption:** Minimally Acceptable - HA-11: Manhole displaced.

Photos

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Inspect ID: 2020-0315 **Title:** 2604000008_CELRC_2020_A_0315_1_20200707T161852.jpg **Rated Item:** 13. Other Metallic Items **Caption:** Minimally Acceptable - HA-24: Manhole cover not on.



Inspect ID: 2020-0001 **Title:** 2604000008_CELRC_2020_A_0001_1_20200706T163338.jpg **Rated Item:** 2. Pump Station Operations and Maintenance Equipment Manuals **Caption:** Acceptable - PS-TA: Operation manuals present.

Photos

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Inspect ID: 2020-0016 **Title:** 2604000008_CELRC_2020_A_0016_1_20200706T164616.jpg **Rated Item:** 2. Pump Station Operations and Maintenance Equipment Manuals
Caption: Acceptable - PS-WA: Manuals present.



Inspect ID: 2020-0043 **Title:** 2604000008_CELRC_2020_A_0043_1_20200706T170949.jpg **Rated Item:** 2. Pump Station Operations and Maintenance Equipment Manuals
Caption: Acceptable - PS-FA: Manuals present.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0064 **Title:**
2604000008_CELRC_2020_A_0064_2_20200706T172335.jpg **Rated**
Item: 2. Pump Station Operations and Maintenance Equipment Manuals
Caption: Acceptable - PS-HV: Operation manuals present.



Inspect ID: 2020-0097 **Title:**
2604000008_CELRC_2020_A_0097_1_20200707T130814.jpg **Rated**
Item: 2. Pump Station Operations and Maintenance Equipment Manuals
Caption: Acceptable - PS-JA: Operation manuals present.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0151 **Title:**
2604000008_CELRC_2020_A_0151_1_20200707T141716.jpg **Rated**
Item: 2. Pump Station Operations and Maintenance Equipment Manuals
Caption: Acceptable - PS-SS: Operation manuals present.



Inspect ID: 2020-0199 **Title:**
2604000008_CELRC_2020_A_0199_1_20200707T145028.jpg **Rated**
Item: 2. Pump Station Operations and Maintenance Equipment Manuals
Caption: Acceptable - PS-IN: Operation manuals present.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0217 **Title:** 2604000008_CELRC_2020_A_0217_1_20200707T150935.jpg **Rated Item:** 2. Pump Station Operations and Maintenance Equipment Manuals **Caption:** Acceptable - PS-CA: Operation manuals present.



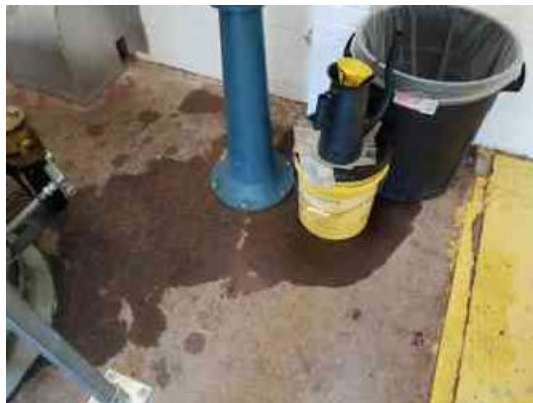
Inspect ID: 2020-0232 **Title:** 2604000008_CELRC_2020_A_0232_1_20200707T152604.jpg **Rated Item:** 2. Pump Station Operations and Maintenance Equipment Manuals **Caption:** Acceptable - PS-SK: Operation manuals present.

Photos

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Inspect ID: 2020-0007 **Title:** 2604000008_CELRC_2020_A_0007_1_20200706T163509.jpg **Rated Item:** 3. Safety Compliance **Caption:** Acceptable - PS-TA: Arc flash warning labels added.



Inspect ID: 2020-0010 **Title:** 2604000008_CELRC_2020_A_0010_1_20200706T163620.jpg **Rated Item:** 3. Safety Compliance **Caption:** Minimally Acceptable - PS-TA: Fluid spillage.

Photos

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Inspect ID: 2020-0019 **Title:** 2604000008_CELRC_2020_A_0019_1_20200706T164726.jpg **Rated Item:** 3. Safety Compliance **Caption:** Minimally Acceptable - PS-WA: Needs updated arc flash warning label.



Inspect ID: 2020-0022 **Title:** 2604000008_CELRC_2020_A_0022_1_20200706T164743.jpg **Rated Item:** 3. Safety Compliance **Caption:** Acceptable - PS-WA: Confined space label added.

Photos

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	<p>Inspect ID: 2020-0037 Title: 2604000008_CELRC_2020_A_0037_1_20200706T170825.jpg Rated Item: 3. Safety Compliance Caption: Minimally Acceptable - PS-KA: Needs confined space warning label.</p>
	<p>Inspect ID: 2020-0046 Title: 2604000008_CELRC_2020_A_0046_1_20200706T171034.jpg Rated Item: 3. Safety Compliance Caption: Acceptable - PS-KA: Arc flash warning label added.</p>

Photos

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Inspect ID: 2020-0067 **Title:** 2604000008_CELRC_2020_A_0067_1_20200706T172416.jpg **Rated Item:** 3. Safety Compliance **Caption:** Minimally Acceptable - PS-HV: Arc flash warning label possibly out of date.



Inspect ID: 2020-0076 **Title:** 2604000008_CELRC_2020_A_0076_1_20200706T172838.jpg **Rated Item:** 3. Safety Compliance **Caption:** Minimally Acceptable - PS-HV: Needs confined space warning label.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0100 **Title:** 2604000008_CELRC_2020_A_0100_1_20200707T130910.jpg **Rated Item:** 3. Safety Compliance **Caption:** Minimally Acceptable - PS-JA: Arc flash warning label needs updating.



Inspect ID: 2020-0130 **Title:** 2604000008_CELRC_2020_A_0130_1_20200707T132448.jpg **Rated Item:** 3. Safety Compliance **Caption:** Minimally Acceptable - PS-JA: Needs confined space warning label.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0136 **Title:** 2604000008_CELRC_2020_A_0136_1_20200707T132619.jpg **Rated Item:** 3. Safety Compliance **Caption:** Minimally Acceptable - PS-JA: Safety lights do not work.



Inspect ID: 2020-0142 **Title:** 2604000008_CELRC_2020_A_0142_1_20200707T141335.jpg **Rated Item:** 3. Safety Compliance **Caption:** Acceptable - PS-SS: Confined space warning label added.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0145 **Title:** 2604000008_CELRC_2020_A_0145_1_20200707T141413.jpg **Rated Item:** 3. Safety Compliance **Caption:** Acceptable - PS-SS: Arc flash warning label added.



Inspect ID: 2020-0148 **Title:** 2604000008_CELRC_2020_A_0148_1_20200707T141556.jpg **Rated Item:** 3. Safety Compliance **Caption:** Minimally Acceptable - PS-SS: Need arc flash warning labels in electrical room.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0184 **Title:** 2604000008_CELRC_2020_A_0184_1_20200707T144447.jpg **Rated Item:** 3. Safety Compliance **Caption:** Minimally Acceptable - PS-IN: Update arc flash warning labels.



Inspect ID: 2020-0187 **Title:** 2604000008_CELRC_2020_A_0187_1_20200707T144551.jpg **Rated Item:** 3. Safety Compliance **Caption:** Acceptable - PS-IN: Confined space warning label added.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0220 **Title:** 2604000008_CELRC_2020_A_0220_1_20200707T151313.jpg **Rated Item:** 3. Safety Compliance **Caption:** Acceptable - PS-CA: Arc flash warning label added.



Inspect ID: 2020-0229 **Title:** 2604000008_CELRC_2020_A_0229_1_20200707T152535.jpg **Rated Item:** 3. Safety Compliance **Caption:** Minimally Acceptable - PS-SK: Need confined space warning label.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0241 **Title:** 2604000008_CELRC_2020_A_0241_1_20200707T152841.jpg **Rated Item:** 3. Safety Compliance **Caption:** Acceptable - PS-SK: Arc flash warning label added.



Inspect ID: 2020-0004 **Title:** 2604000008_CELRC_2020_A_0004_1_20200706T163423.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-TA: Bracket is falling off wall.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0013 **Title:** 2604000008_CELRC_2020_A_0013_1_20200706T163656.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-TA: Corrosion on doors.



Inspect ID: 2020-0028 **Title:** 2604000008_CELRC_2020_A_0028_1_20200706T164950.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-WA: Growth from roof leak.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0031 **Title:** 2604000008_CELRC_2020_A_0031_1_20200706T165059.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-WA: Masonry cracking in corners and above doors.



Inspect ID: 2020-0049 **Title:** 2604000008_CELRC_2020_A_0049_1_20200706T171143.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-KA: Crack in foundation.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0058 **Title:** 2604000008_CELRC_2020_A_0058_1_20200706T171414.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-KA: Hatch is corroded and broken.



Inspect ID: 2020-0061 **Title:** 2604000008_CELRC_2020_A_0061_1_20200706T171531.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-KA: Exposed rebar in ceiling.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0073 **Title:** 2604000008_CELRC_2020_A_0073_1_20200706T172707.jpg **Rated Item:** 5. Plant Building **Caption:** Acceptable - PS-HV: Concrete around pipe fixed.



Inspect ID: 2020-0088 **Title:** 2604000008_CELRC_2020_A_0088_1_20200706T173358.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-HV: Roof leaking.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0091 **Title:** 2604000008_CELRC_2020_A_0091_1_20200706T173458.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-HV: Deteriorating seal.



Inspect ID: 2020-0103 **Title:** 2604000008_CELRC_2020_A_0103_1_20200707T131030.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-JA: Exterior stairs are spalling and toe board has come loose.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0106 **Title:** 2604000008_CELRC_2020_A_0106_1_20200707T131157.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-JA: Peeling paint on ceiling.



Inspect ID: 2020-0109 **Title:** 2604000008_CELRC_2020_A_0109_1_20200707T131240.jpg **Rated Item:** 5. Plant Building **Caption:** Acceptable - PS-JA: Beams were cleaned and painted.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0115 **Title:** 2604000008_CELRC_2020_A_0115_1_20200707T131430.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-JA: Rusting on lintel. Cracking above door.



Inspect ID: 2020-0121 **Title:** 2604000008_CELRC_2020_A_0121_1_20200707T132002.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-JA: Rusting on lintel.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0157 **Title:** 2604000008_CELRC_2020_A_0157_1_20200707T142005.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-SS: Spalling across floor.



Inspect ID: 2020-0160 **Title:** 2604000008_CELRC_2020_A_0160_1_20200707T142053.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-SS: Paint peeling on pipe elbow.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0163 **Title:** 2604000008_CELRC_2020_A_0163_1_20200707T142132.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-SS: Paint peeling on wall.



Inspect ID: 2020-0166 **Title:** 2604000008_CELRC_2020_A_0166_1_20200707T142231.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-SS: Cracking around door frame.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems





Inspect ID: 2020-0175 **Title:** 2604000008_CELRC_2020_A_0175_1_20200707T143103.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-SS: Rust on lintel.



Inspect ID: 2020-0190 **Title:** 2604000008_CELRC_2020_A_0190_1_20200707T144726.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-IN: Peeling paint on ducts and ceiling.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

	Inspect ID: 2020-0193 Title: 2604000008_CELRC_2020_A_0193_1_20200707T144848.jpg Rated Item: 5. Plant Building Caption: Minimally Acceptable - PS-IN: Corrosion around skylight.
	Inspect ID: 2020-0196 Title: 2604000008_CELRC_2020_A_0196_1_20200707T144941.jpg Rated Item: 5. Plant Building Caption: Minimally Acceptable - PS-IN: Cover coming off pipe.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0205 **Title:** 2604000008_CELRC_2020_A_0205_1_20200707T145224.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-IN: Spalling on floor.



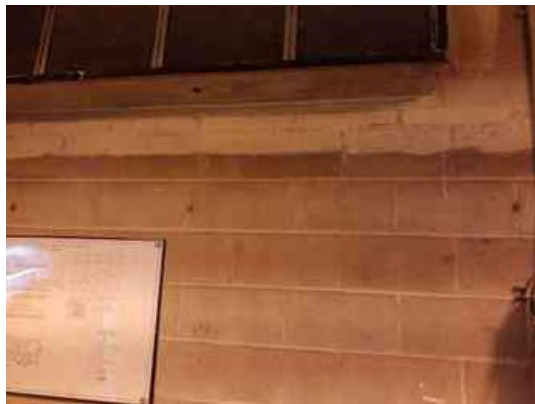
Inspect ID: 2020-0208 **Title:** 2604000008_CELRC_2020_A_0208_1_20200707T145404.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-IN: Corrosion on lintel.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems





Inspect ID: 2020-0226 **Title:** 2604000008_CELRC_2020_A_0226_1_20200707T151429.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-CA: Corrosion on pipe.



Inspect ID: 2020-0235 **Title:** 2604000008_CELRC_2020_A_0235_1_20200707T152643.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-SK: Paint peeling off walls.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

	<p>Inspect ID: 2020-0250 Title: 2604000008_CELRC_2020_A_0250_1_20200707T153206.jpg Rated Item: 5. Plant Building Caption: Minimally Acceptable - PS-SK: Corrosion around ceiling hatch.</p>
	<p>Inspect ID: 2020-0253 Title: 2604000008_CELRC_2020_A_0253_1_20200707T153241.jpg Rated Item: 5. Plant Building Caption: Minimally Acceptable - PS-SK: Crack and corrosion around door.</p>

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0262 **Title:** 2604000008_CELRC_2020_A_0262_1_20200707T155012.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-TA: Foundation split.



Inspect ID: 2020-0265 **Title:** 2604000008_CELRC_2020_A_0265_2_20200707T155150.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-TA: Stair is not connected.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0034 **Title:** 2604000008_CELRC_2020_A_0034_1_20200706T165712.jpg **Rated Item:** 6. Fencing and Gates **Caption:** Minimally Acceptable - PS-WA: Fence is falling over.



Inspect ID: 2020-0025 **Title:** 2604000008_CELRC_2020_A_0025_1_20200706T164857.jpg **Rated Item:** 7. Pumps **Caption:** Acceptable - PS-WA: SWP-2 shows no evidence of oil leak.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0040 **Title:** 2604000008_CELRC_2020_A_0040_1_20200706T170906.jpg **Rated Item:** 7. Pumps **Caption:** Acceptable - PS-KA: Pump 1 in service .



Inspect ID: 2020-0052 **Title:** 2604000008_CELRC_2020_A_0052_1_20200706T171234.jpg **Rated Item:** 7. Pumps **Caption:** Minimally Acceptable - PS-KA: Pump 2 oil indicator cracked.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0055 **Title:** 2604000008_CELRC_2020_A_0055_1_20200706T171314.jpg **Rated Item:** 7. Pumps **Caption:** Minimally Acceptable - PS-KA: Pump 1 has excessive corrosion.



Inspect ID: 2020-0079 **Title:** 2604000008_CELRC_2020_A_0079_1_20200706T172923.jpg **Rated Item:** 7. Pumps **Caption:** Minimally Acceptable - PS-HV: DWP has excessive corrosion.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems





Inspect ID: 2020-0082 **Title:** 2604000008_CELRC_2020_A_0082_1_20200706T173011.jpg **Rated Item:** 7. Pumps **Caption:** Minimally Acceptable - PS-HV: DWP has small active oil leak.



Inspect ID: 2020-0211 **Title:** 2604000008_CELRC_2020_A_0211_1_20200707T145617.jpg **Rated Item:** 7. Pumps **Caption:** Minimally Acceptable - PS-IN: SWP 1 has leak.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

	<p>Inspect ID: 2020-0238 Title: 2604000008_CELRC_2020_A_0238_1_20200707T152749.jpg Rated Item: 7. Pumps Caption: Minimally Acceptable - PS-SK: SWP 1 has liquid pooling under the control box.</p>
	<p>Inspect ID: 2020-0094 Title: 2604000008_CELRC_2020_A_0094_1_20200706T173607.jpg Rated Item: 8. Motors, Engines, Fans, Gear Reducers, Back Stop Devices, etc. Caption: Minimally Acceptable - PS-HV: Ceiling fan screens need cleaning.</p>

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0118 **Title:** 2604000008_CELRC_2020_A_0118_1_20200707T131919.jpg **Rated Item:** 8. Motors, Engines, Fans, Gear Reducers, Back Stop Devices, etc. **Caption:** Acceptable - PS-JA: Exhaust fan 1 and 2 were working.



Inspect ID: 2020-0169 **Title:** 2604000008_CELRC_2020_A_0169_1_20200707T142625.jpg **Rated Item:** 8. Motors, Engines, Fans, Gear Reducers, Back Stop Devices, etc. **Caption:** Minimally Acceptable - PS-SS: Motorized dampener EF-1 does not open during operation.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0172 **Title:** 2604000008_CELRC_2020_A_0172_1_20200707T142727.jpg **Rated Item:** 8. Motors, Engines, Fans, Gear Reducers, Back Stop Devices, etc. **Caption:** Minimally Acceptable - PS-SS: Motorized dampener EF-2 does not open during operation.



Inspect ID: 2020-0223 **Title:** 2604000008_CELRC_2020_A_0223_1_20200707T151355.jpg **Rated Item:** 8. Motors, Engines, Fans, Gear Reducers, Back Stop Devices, etc. **Caption:** Minimally Acceptable - PS-CA: Exhaust fan inoperable.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0244 **Title:** 2604000008_CELRC_2020_A_0244_1_20200707T153008.jpg **Rated Item:** 8. Motors, Engines, Fans, Gear Reducers, Back Stop Devices, etc. **Caption:** Minimally Acceptable - PS-SK: EF-1 housing is not supported in the ceiling.



Inspect ID: 2020-0247 **Title:** 2604000008_CELRC_2020_A_0247_1_20200707T153106.jpg **Rated Item:** 8. Motors, Engines, Fans, Gear Reducers, Back Stop Devices, etc. **Caption:** Minimally Acceptable - PS-SK: EF-2 is inoperable.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



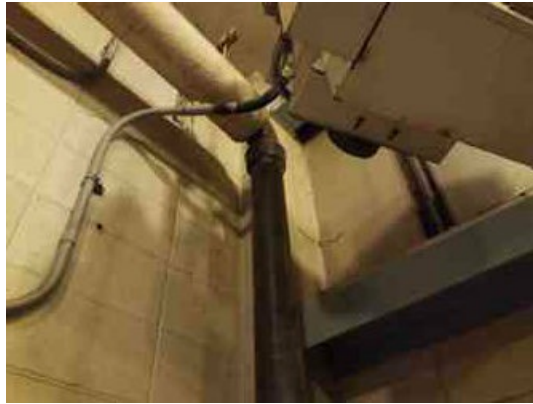
Inspect ID: 2020-0070 **Title:** 2604000008_CELRC_2020_A_0070_1_20200706T172616.jpg **Rated Item:** 10. Mechanical Operating Trash Rakes **Caption:** Acceptable - PS-HV: Alarm problem fixed. Rakes look good.



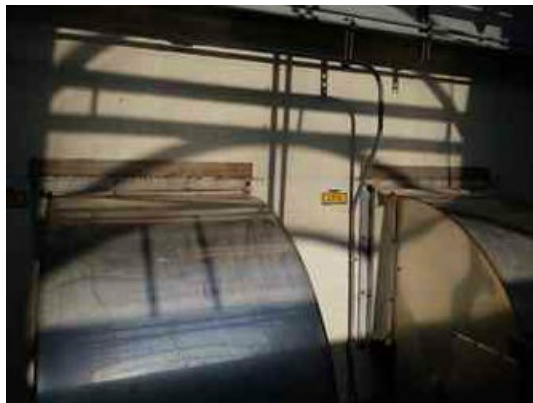
Inspect ID: 2020-0154 **Title:** 2604000008_CELRC_2020_A_0154_1_20200707T141825.jpg **Rated Item:** 10. Mechanical Operating Trash Rakes **Caption:** Minimally Acceptable - PS-SS: Makes a high pitched squealing when in operation.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0127 **Title:** 2604000008_CELRC_2020_A_0127_1_20200707T132328.jpg **Rated Item:** 16. Enclosures, Panels, Conduit and Ducts **Caption:** Minimally Acceptable - PS-JA: Elbow is heavily corroded.



Inspect ID: 2020-0133 **Title:** 2604000008_CELRC_2020_A_0133_1_20200707T132553.jpg **Rated Item:** 16. Enclosures, Panels, Conduit and Ducts **Caption:** Minimally Acceptable - PS-JA: Rusting of shroud. Needs cleaning.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0202 **Title:** 2604000008_CELRC_2020_A_0202_1_20200707T145109.jpg **Rated Item:** 16. Enclosures, Panels, Conduit and Ducts **Caption:** Minimally Acceptable - PS-IN: Insulation coming off pipe.



Inspect ID: 2020-0214 **Title:** 2604000008_CELRC_2020_A_0214_1_20200707T145727.jpg **Rated Item:** 16. Enclosures, Panels, Conduit and Ducts **Caption:** Minimally Acceptable - PS-IN: Nest in vent.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0256 **Title:** 2604000008_CELRC_2020_A_0256_1_20200707T153422.jpg **Rated Item:** 16. Enclosures, Panels, Conduit and Ducts **Caption:** Minimally Acceptable - PS-SK: Broken screen.



Inspect ID: 2020-0259 **Title:** 2604000008_CELRC_2020_A_0259_1_20200707T153500.jpg **Rated Item:** 16. Enclosures, Panels, Conduit and Ducts **Caption:** Minimally Acceptable - PS-SK: Clean screen.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0112 **Title:** 2604000008_CELRC_2020_A_0112_1_20200707T131309.jpg **Rated Item:** 18. Sluice/ Slide Gates **Caption:** Acceptable - PS-JA: Valve was operated successfully.



Inspect ID: 2020-0124 **Title:** 2604000008_CELRC_2020_A_0124_1_20200707T132217.jpg **Rated Item:** 18. Sluice/ Slide Gates **Caption:** Acceptable - PS-JA: Sluice gate is in operation.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0178 **Title:** 2604000008_CELRC_2020_A_0178_1_20200707T143213.jpg **Rated Item:** 18. Sluice/ Slide Gates **Caption:** Minimally Acceptable - PS-SS: Sluice gate is non operational.



Inspect ID: 2020-0085 **Title:** 2604000008_CELRC_2020_A_0085_1_20200706T173104.jpg **Rated Item:** 21. Other Metallic Items (Equipment, Ladders, Platform Anchors, etc) **Caption:** Minimally Acceptable - PS-HV: Excessive corrosion.

Photos

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2020-0139 **Title:** 2604000008_CELRC_2020_A_0139_1_20200707T133317.jpg **Rated Item:** 21. Other Metallic Items (Equipment, Ladders, Platform Anchors, etc) **Caption:** Minimally Acceptable - PS-JA: Rusting on top of oil reservoir. Needs cleaning.



**US Army Corps
of Engineers ®**

Flood Damage Reduction System 2605000009 / Segment 2604000008

Public Sponsor Pre-Inspection Form

The following information is to be provided by the levee district sponsor prior to an inspection. This information will be used to help evaluate the organizational capability of the levee district to manage the levee segment / system maintenance program.

1. Levee segment / system and sponsor: (name of the segment / system and levee sponsor) System 2605000009 / Segment 2604000008 CELRC		
2. Reporting period: (month/day/year to month/day/year) 05/01/2019 to 07/07/2020		
3. Summary of maintenance required by last inspection report: Weeding, filling settlement holes, fill ruts.		
4. Summary of maintenance performed this reporting period: Exercise and grease gates, oil locks, mow, fill holes, monitor pumps, remove fallen trees, monitor levee.		
5. Summary of maintenance planned next reporting period: General maintenance, weeding, fill settlement holes, monitor levee.		
6. Summary of changes to segment / system since last inspection: N/A		
7. Problems/ issues requiring the assistance of the US Army Corps of Engineers: N/A		

General Instructions for the Inspection of Flood Damage Reduction Segments / Systems

A. Purpose of USACE Inspections

The primary purpose of these inspections is to prevent loss of life and catastrophic damages; preserve the value of Federal investments, and to encourage non-Federal sponsors to bear responsibility for their own protection. Inspections should assure that Flood Damage Reduction structures and facilities are continually maintained and operated as necessary to obtain the maximum benefits. Inspections are also conducted to determine eligibility for Rehabilitation Assistance under authority of PL 84-99 for Federal and non-Federal systems. (ER 1130-2-530, ER 500-1-1)

B. Types of Inspections:

The Corps conducts several types of inspections of Flood Damage Reduction systems, as outlined below:

Initial Eligibility Inspections	Continuing Eligibility Inspections	
	Routine Inspections	Periodic Inspections
IEIs are conducted to determine whether a non-Federally constructed Flood Damage Reduction system meets the minimum criteria and standards set forth by the Corps for initial inclusion into the Rehabilitation and Inspection Program.	RIIs are intended to verify proper maintenance, owner preparedness, and component operation.	PIIs are intended to verify proper maintenance and component operation and to evaluate operational adequacy, structural stability, and safety of the system. Periodic Inspections evaluate the system's original design criteria vs. current design criteria to determine potential performance impacts, evaluate the current conditions, and compare the design loads and design analysis used against current design standards. This is to be done to identify components and features for the sponsor that need to be monitored more closely over time or corrected as needed. (Periodic Inspections are used as the basis of risk assessments.)

C. Inspection Boundaries:

Inspections should be conducted so as to rate each Flood Damage Reduction "Segment" of the system. The overall system rating will be the lowest segment rating in the system.

Project	System	Segment
A flood damage reduction project is made up of one or more flood damage reduction systems which were under the same authorization.	A flood damage reduction system is made up of one or more flood damage reduction segments which collectively provide flood damage reduction to a defined area. Failure of one segment within a system constitutes failure of the entire system. Failure of one system does not affect another system.	A flood damage reduction segment is defined as a discrete portion of a flood damage reduction system that is operated and maintained by a single entity. A flood damage reduction segment can be made up of one or more features (levee, floodwall, pump stations, etc).

D. Land Use Definitions:

The following three definitions are intended for use in determining minimum required inspection intervals and initial requirements for inclusion into the Rehabilitation and Inspection Program. Inspections should be considered for all systems that would result in significant environmental or economic impact upon failure regardless of specific land use.

Agricultural	Rural	Urban
Protected population in the range of zero to 5 households per square mile protected.	Protected population in the range of 6 to 20 households per square mile protected.	Greater than 20 households per square mile; major industrial areas with significant infrastructure investment. Some protected urban areas have no permanent population but may be industrial areas with high value infrastructure with no overnight population.

E. **Use of the Inspection Report Template:**

The report template is intended for use in all Army Corps of Engineers inspections of levee and floodwall systems and flood damage reduction channels. The section of the template labeled \"Initial Eligibility\" only needs to be completed during Initial Eligibility Inspections of Non-Federally constructed Flood Damage Reduction Systems. The section labeled \"General Items\" needs to be completed with every inspection, along with all other sections that correspond to features in the system. The section labeled \"Public Sponsor Pre-Inspection Report\" is intended for completion before the inspection, if possible.

F. **Individual Item / Component Ratings:**

Assessment of individual components rated during the inspection should be based on the criteria provided in the inspection report template, though inspectors may incorporate additional items into the report based on the characteristics of the system. The assessment of individual components should be based on the following definitions.

Acceptable Item	Minimally Acceptable Item	Unacceptable Item
The inspected item is in satisfactory condition, with no deficiencies, and will function as intended during the next flood event.	The inspected item has one or more minor deficiencies that need to be corrected. The minor deficiency or deficiencies will not seriously impair the functioning of the item as intended during the next flood event.	The inspected item has one or more serious deficiencies that need to be corrected. The serious deficiency or deficiencies will seriously impair the functioning of the item as intended during the next flood event.

G. **Overall Segment / System Ratings:**

Determination of the overall system rating is based on the definitions below. Note that an Unacceptable System Rating may be either based on an engineering determination that concluded that noted deficiencies would prevent the system from functioning as intended during the next flood event, or based on the sponsor's demonstrated lack of commitment or inability to correct serious deficiencies in a timely manner.

Acceptable System	Minimally Acceptable System	Unacceptable System
All items or components are rated as Acceptable.	One or more items are rated as Minimally Acceptable or one or more items are rated as Unacceptable and an engineering determination concludes that the Unacceptable items would not prevent the segment / system from performing as intended during the next flood event.	One or more items are rated as Unacceptable and would prevent the segment / system from performing as intended, or a serious deficiency noted in past inspections (which had previously resulted in a minimally acceptable system rating) has not been corrected within the established timeframe, not to exceed two years.

H. **Eligibility for PL84-99 Rehabilitation Assistance:**

Inspected systems that are not operated and maintained by the Federal government may be Active in the Corps' Rehabilitation and Inspection Program (RIP) and eligible for rehabilitation assistance from the Corps as defined below:

If the Overall System Rating is Acceptable	If the Overall System Rating is Minimally Acceptable	If the Overall System Rating is Unacceptable
The system is active in the RIP and eligible for PL84-99 rehabilitation assistance.	The system is Active in the RIP during the time that it takes to make needed corrections. Active systems are eligible for rehabilitation assistance. However, if the sponsor does not present USACE with proof that serious deficiencies (which had previously resulted in a minimally acceptable system rating) were corrected within the established timeframe, then the system will become Inactive in the RIP.	The system is Inactive in the RIP, and the status will remain Inactive until the sponsor presents USACE with proof that all items rated Unacceptable have been corrected. Inactive systems are ineligible for rehabilitation assistance.

I. Reporting:

After the inspection, the Corps is responsible for assembling an inspection report (or a summary report if it was a Periodic Inspection) including the following information:

- a. All sections of the report template used during the inspection, including the cover and pre-inspection materials. (Supplemental data collected, and any sections of the template that weren't used during the inspection do not need to be included with the report.)
- b. Photos of the general system condition and noted deficiencies.
- c. A plan view drawing of the system, with stationing, to reference locations of items rated less than acceptable.
- d. The relative importance of the identified maintenance issues should be specified in the transmittal letter.
- e. If the Overall System Rating is Minimally Acceptable, the report needs to establish a timeframe for correction of serious deficiencies noted (not to exceed two years) and indicate that if these items are not corrected within the required timeframe, the system will be rated as Unacceptable and made Inactive in the Rehabilitation Inspection Program.

J. Notification:

Reports are to be disseminated as follows within 30 days of the inspection date.

If the Overall System Rating is Acceptable	If the Overall System Rating is Minimally Acceptable	If the Overall System Rating is Unacceptable
Reports need to be provided to the local sponsor and the county emergency management agency.	Reports need to be provided to the local sponsor, state emergency management agency, county emergency management agency, and to the FEMA region.	Reports need to be provided to the local sponsor, state emergency management agency, county emergency management agency, FEMA region, and to the Congressional delegation within 30 days of the inspection.

National Levee Database

NLD

For Official Use Only

LEVEE INSPECTION MAPBOOK

Levee Segment Hammond

NLD Levee Segment ID
2604000008

Location
Hammond

Inspection Type
Routine

Start Date
07-Jul-2020

End Date
08-Jul-2020

Inspected By
Jeremy Harris, Yuki Galisanao



US Army Corps
of Engineers

SHEET INDEX

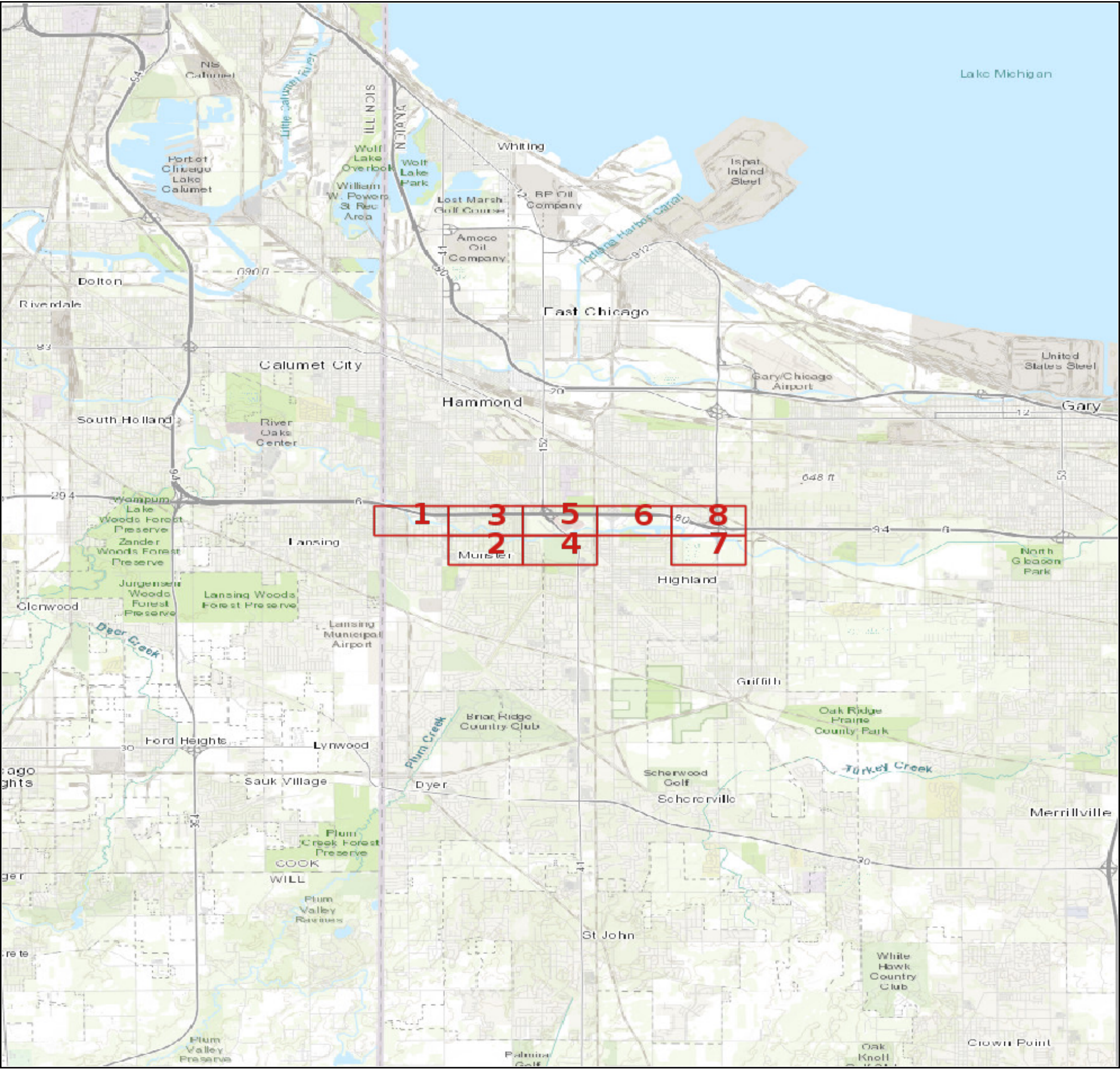
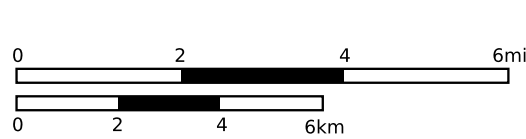
Levee: Hammond

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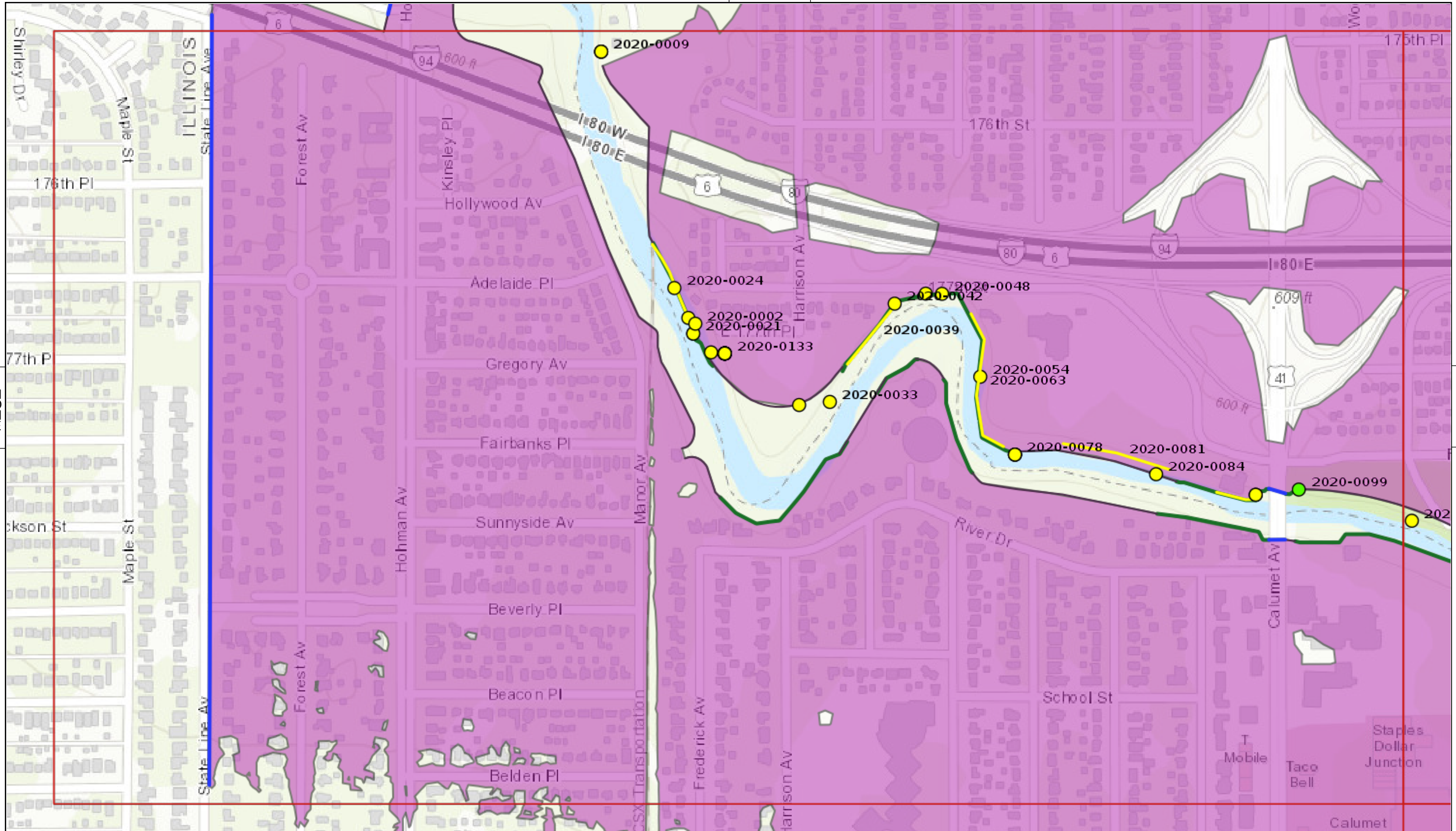


MAP ELEMENTS

8 Standard Sheets



NONE



NOZ

3

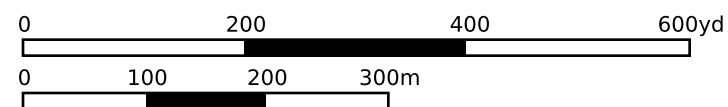
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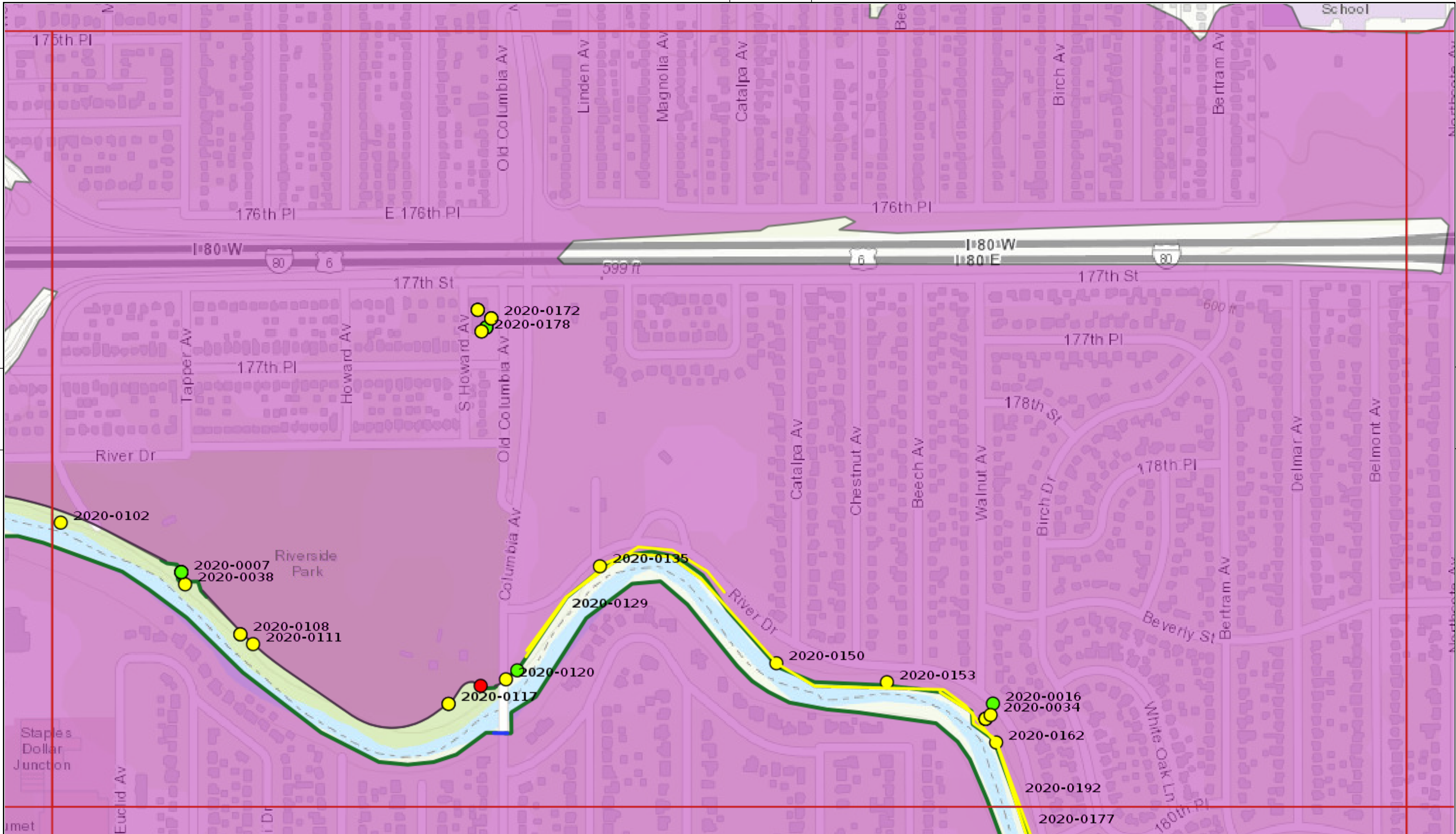
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- Unacceptable
- Not Applicable

Scale = 1:6000



NLD	Sheet: 1	07-Jul-2020
	Hammond	
	Type: Routine	08-Jul-2020

NONE



OBSERVATIONS

- Acceptable
- Minimally Acceptable
- Unacceptable
- Not Applicable

Scale = 1:6000



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	Hammond	
	Type: Routine	08-Jul-2020



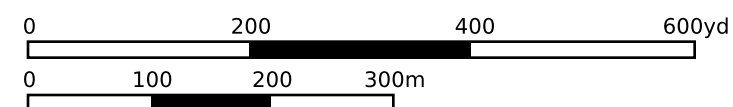
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OBSERVATIONS

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-  Unacceptable
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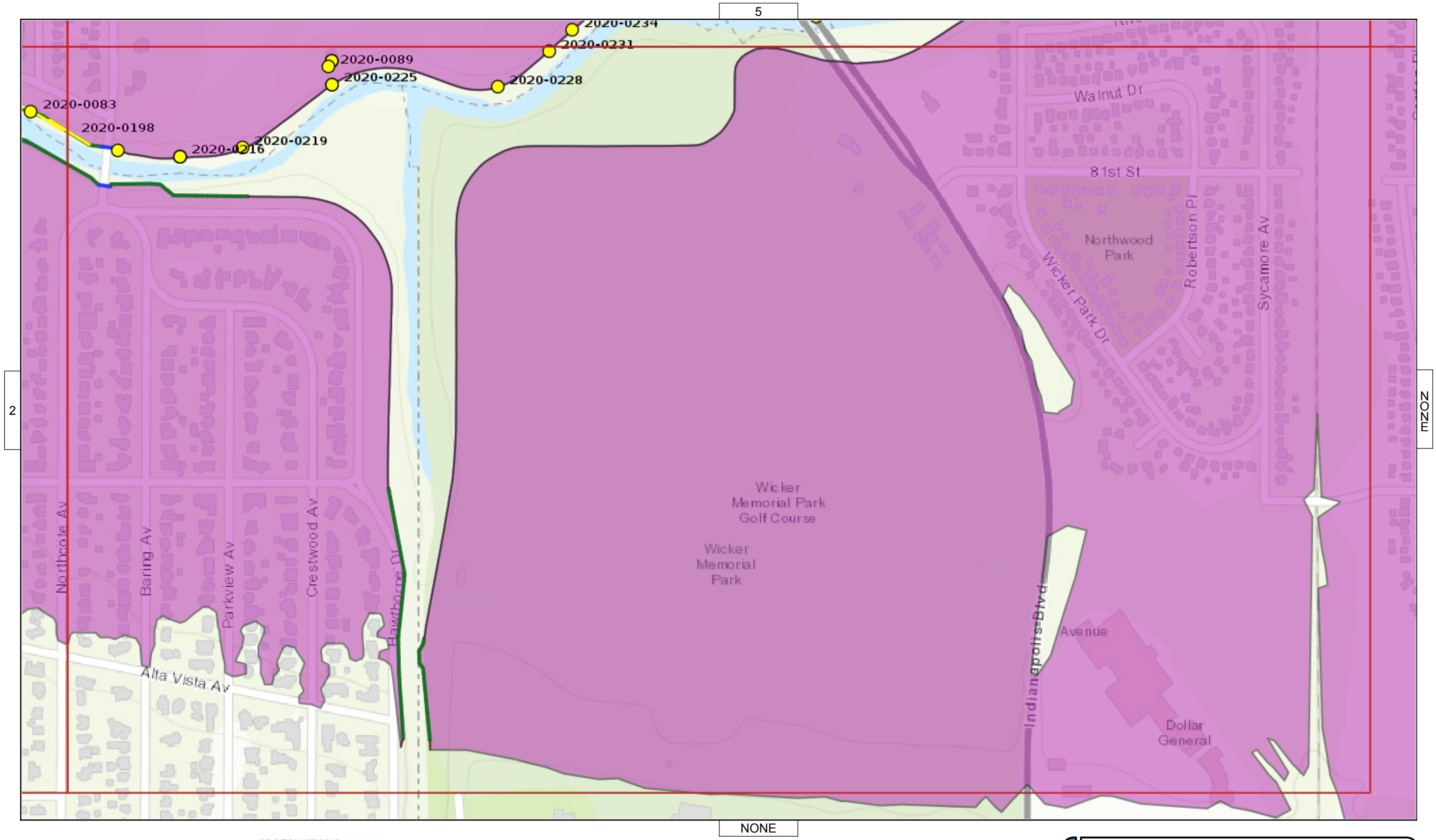
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07-Jul-2020

Hammond

Type: Routine

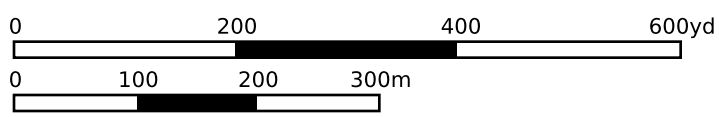
08-Jul-2020



OBSERVATIONS

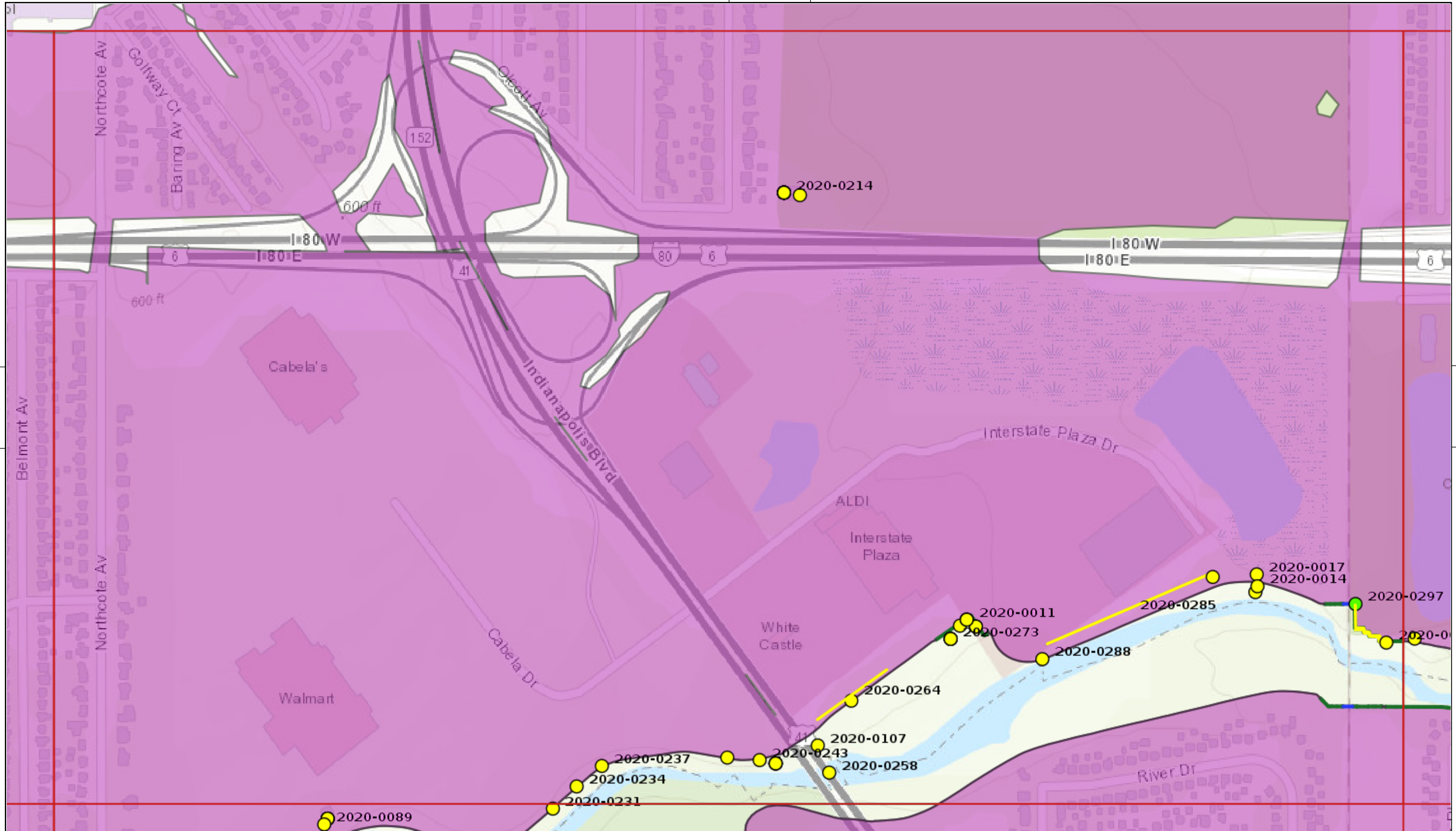
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Scale = 1:6000



NLD	Sheet: 4	07-Jul-2020
	Hammond	
	Type: Routine	08-Jul-2020

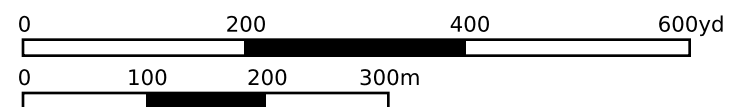
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OBSERVATIONS

-  Acceptable
-  Minimally Acceptable
-  Unacceptable
-  Not Applicable

Scale = 1:6000



Sheet: 5

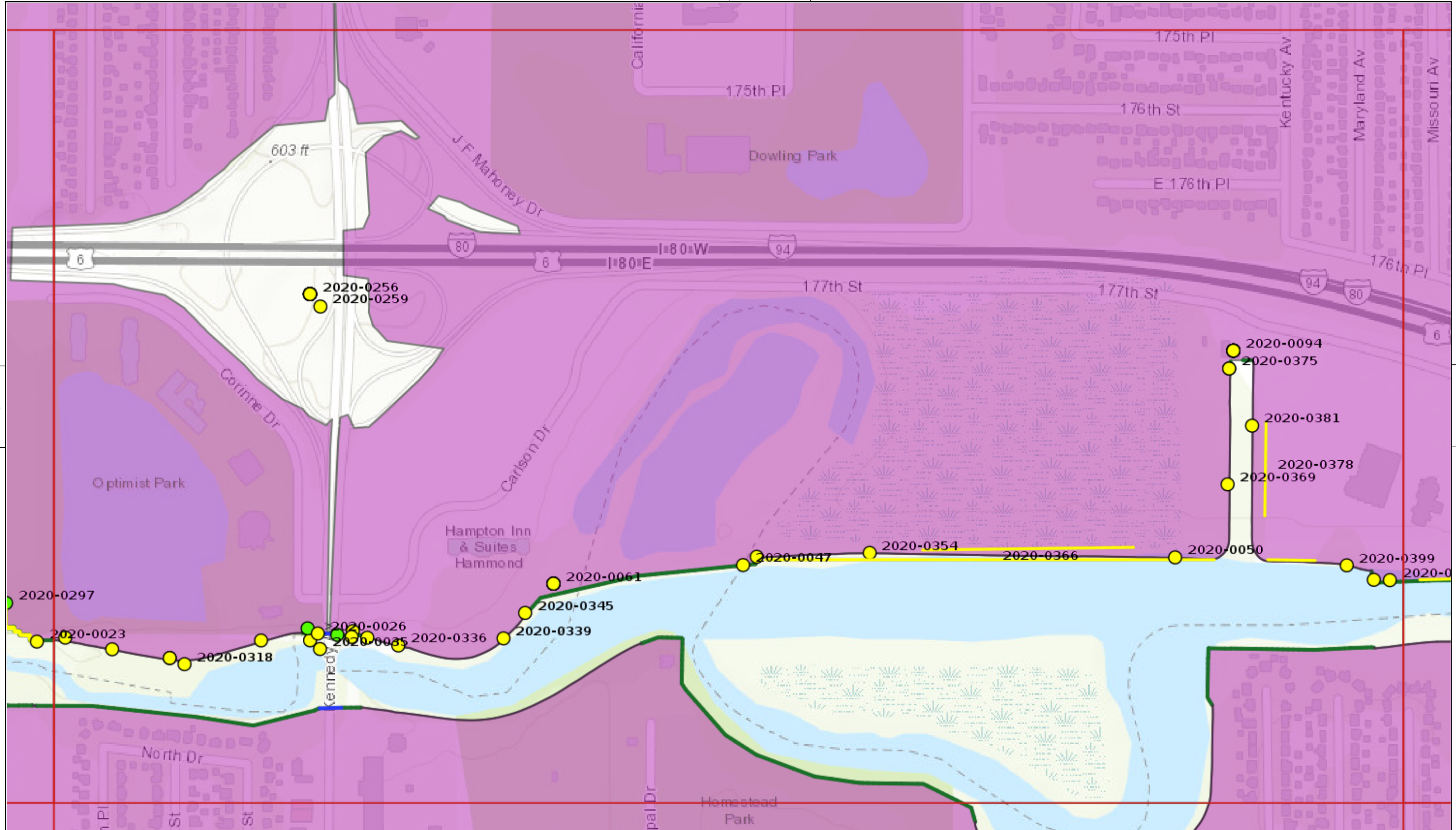
07-Jul-2020

Hammond

Type: Routine

08-Jul-2020

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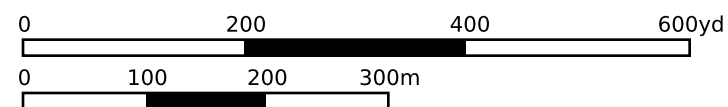
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OBSERVATIONS

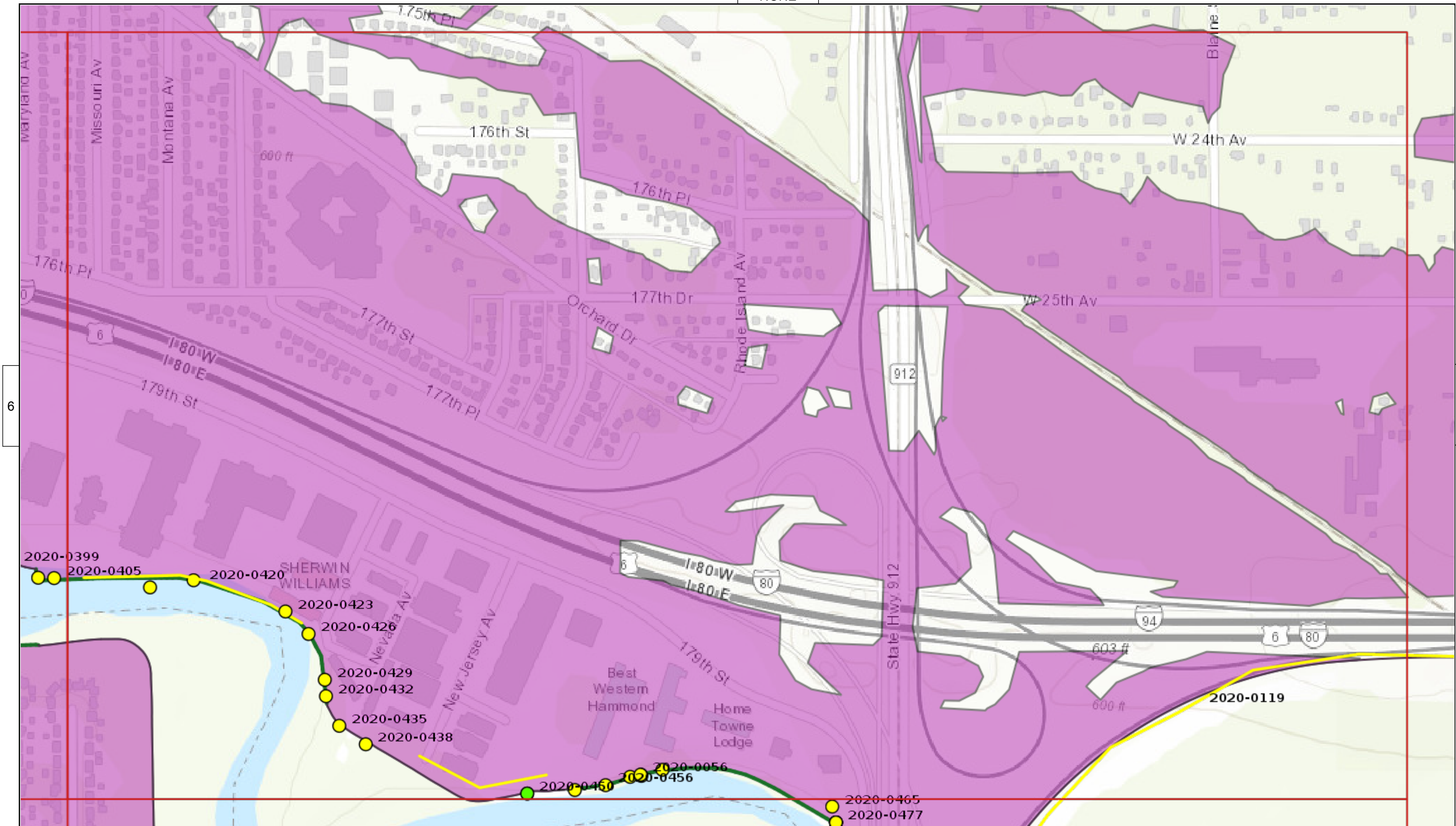
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- Not Applicable

Scale = 1:6000



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	Hammond	
	Type: Routine	08-Jul-2020

NONE



6

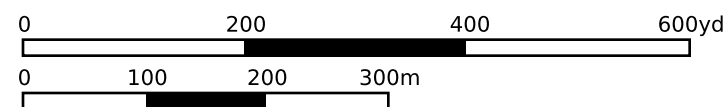
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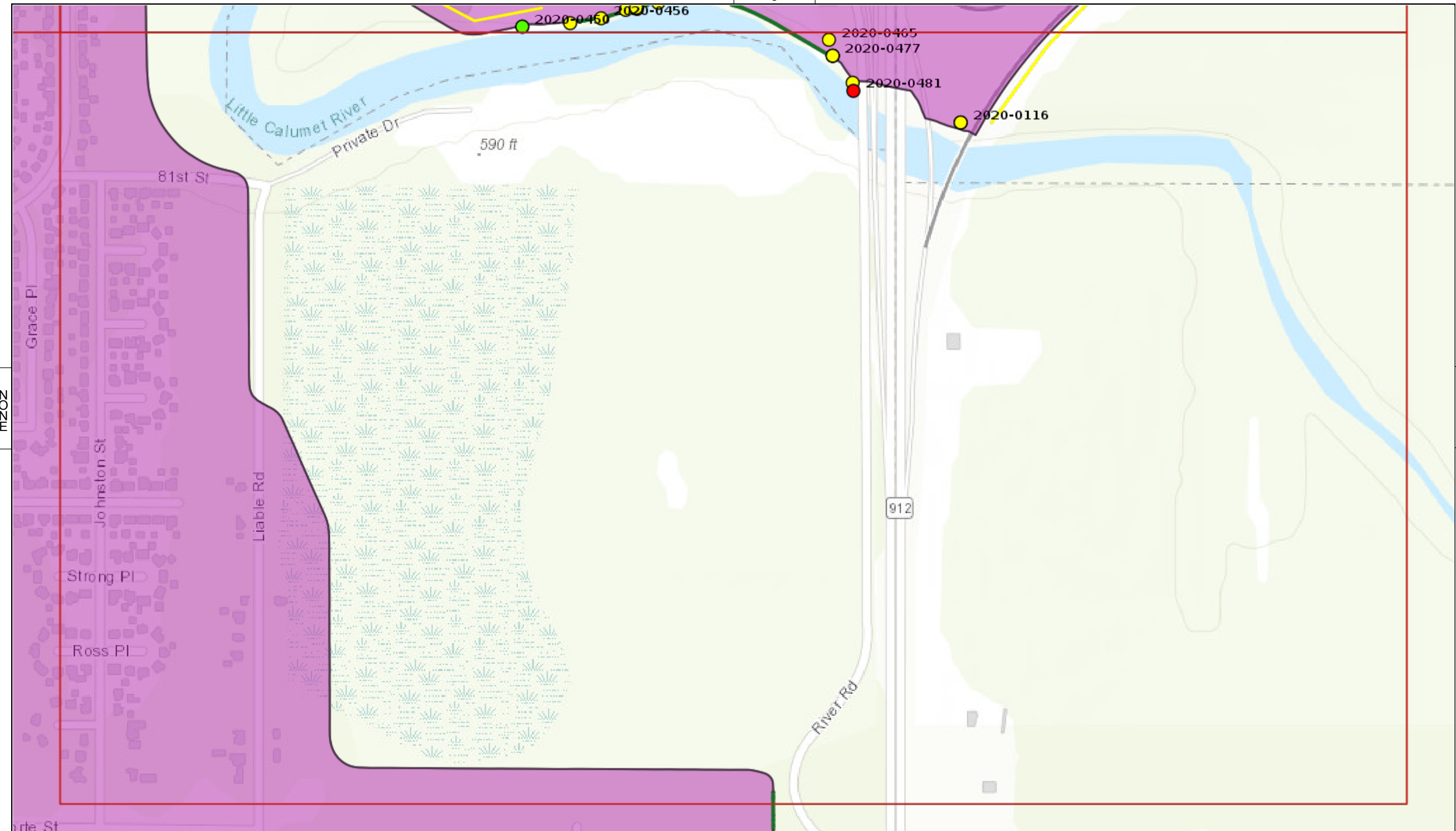
OBSERVATIONS

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- Minimally Acceptable
- Unacceptable
- Not Applicable

Scale = 1:6000



NLD	Sheet: 8	07-Jul-2020
	Hammond	
	Type: Routine	08-Jul-2020



mzoz

mzoz

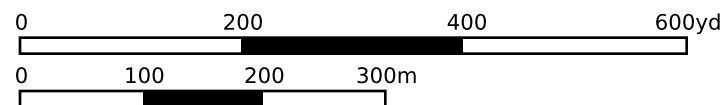
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NONE



- OBSERVATIONS**
- Acceptable
 - Minimally Acceptable
 - Unacceptable
 - Not Applicable

Scale = 1:6000



NLD	Sheet: 7	07-Jul-2020
	Hammond	
	Type: Routine	08-Jul-2020

Rehabilitation Program Eligibility Determination

In order to be eligible, all of the following items must be rated A, M, N/A, or Yes.

Note: Item numbers listed below refer to their placement in the Inspection Checklist.

Name of Segment/System: Hammond		
Public Sponsor(s): Little Calumet River Basin Development Commission		
Sponsor Representative: Dan Repay		
Sponsor Phone: 219-595-0599		
Sponsor Email: drepay@littlecalumetriverbasin.org		
Inspection Date: 7/7/20		
Rehabilitation Program Eligibility Determination		
Yes	<input checked="" type="checkbox"/>	Public sponsor provided maintenance information per the Public Sponsor Pre-Inspection Form.
No	<input type="checkbox"/>	
Yes	<input type="checkbox"/>	Non-federal levee system meets Initial Eligibility criteria.
No	<input type="checkbox"/>	
N/A	<input checked="" type="checkbox"/>	
If either of the above items is marked "No" the levee system is not eligible.		
Rating	Rated Item	
Levee Embankments		
A	<input type="checkbox"/>	3. Encroachments
M	<input checked="" type="checkbox"/>	
U	<input type="checkbox"/>	
A	<input type="checkbox"/>	4. Closure structures (Stop Log, Earthen Closures, Gates, or Sandbag Closures)
U	<input type="checkbox"/>	
N/A	<input checked="" type="checkbox"/>	
A	<input checked="" type="checkbox"/>	5. Slope Stability
M	<input type="checkbox"/>	
U	<input type="checkbox"/>	
A	<input type="checkbox"/>	6. Erosion/ Bank Caving
M	<input checked="" type="checkbox"/>	
U	<input type="checkbox"/>	
A	<input type="checkbox"/>	10. Animal Control
M	<input checked="" type="checkbox"/>	
U	<input type="checkbox"/>	
A	<input type="checkbox"/>	11. Culverts/Discharge Pipes (This item includes both concrete and corrugated metal pipes.)
M	<input checked="" type="checkbox"/>	
U	<input type="checkbox"/>	
N/A	<input type="checkbox"/>	
A	<input type="checkbox"/>	14. Underseepage Relief Wells/Toe Drainage Systems
M	<input type="checkbox"/>	
U	<input type="checkbox"/>	
N/A	<input checked="" type="checkbox"/>	

Floodwalls		
A	<input type="checkbox"/>	2. Encroachments
M	<input checked="" type="checkbox"/>	
U	<input type="checkbox"/>	
A	<input checked="" type="checkbox"/>	3. Closure Structures (Stop Log Closures and Gates)
U	<input type="checkbox"/>	
N/A	<input type="checkbox"/>	
A	<input checked="" type="checkbox"/>	5. Tilting, Sliding, or Settlement of Concrete Structures
M	<input type="checkbox"/>	
U	<input type="checkbox"/>	
A	<input type="checkbox"/>	6. Foundation of Concrete Structures
M	<input checked="" type="checkbox"/>	
U	<input type="checkbox"/>	
A	<input type="checkbox"/>	8. Underseepage Relief Wells/Toe Drainage Systems
M	<input type="checkbox"/>	
U	<input type="checkbox"/>	
N/A	<input checked="" type="checkbox"/>	
Interior Drainage Systems		
A	<input type="checkbox"/>	9. Culvert/Discharge Pipes
M	<input checked="" type="checkbox"/>	
U	<input type="checkbox"/>	
N/A	<input type="checkbox"/>	
A	<input type="checkbox"/>	10. Sluice/Slide Gates
M	<input checked="" type="checkbox"/>	
U	<input type="checkbox"/>	
N/A	<input type="checkbox"/>	
A	<input type="checkbox"/>	11. Flap gates/Flap Valves/Pinch Valves
M	<input checked="" type="checkbox"/>	
U	<input type="checkbox"/>	
N/A	<input type="checkbox"/>	
Pump Stations		
A	<input checked="" type="checkbox"/>	17. Intake and Discharge Pipelines
M	<input type="checkbox"/>	
U	<input type="checkbox"/>	
A	<input type="checkbox"/>	18. Sluice/Slide Gates
M	<input checked="" type="checkbox"/>	
U	<input type="checkbox"/>	
N/A	<input type="checkbox"/>	
A	<input checked="" type="checkbox"/>	19. Flap Gates/Flap Valves/Pinch Valves
M	<input type="checkbox"/>	
U	<input type="checkbox"/>	
N/A	<input type="checkbox"/>	

Rehabilitation Program Status		
Active	<input checked="checked" type="checkbox"/>	System meets all interim eligibility criteria, including having received a rating of A, M, N/A or Yes for all subsets items and is therefore eligible for rehabilitation assistance.
Inactive	<input type="checkbox"/>	System does not meet interim eligibility requirements.
Comments:		

Final Approval By:

John Groboski, P.E.
Levee Safety Officer