

IDAHO TRANSPORTATION DEPARTMENT

REQUEST FOR PROPOSALS

FOR

INSPECTION SERVICES

**FY 25-27 STATEWIDE OVERHEAD STRUCTURES
INSPECTION**

KEY NO. 22726

April 8, 2025

REQUEST FOR PROPOSALS

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The following items are not included in this package, but can be located at the following web sites:

<http://itd.idaho.gov/business/?target=consultant-agreements>

- ❖ General Information and Requirements
- ❖ Sample Agreement and Consultant Agreement Specifications (1A)
- ❖ Federal Per Diem Policy
- ❖ Certification Regarding Debarment, Suspension, and Other Responsibility Matters form
- ❖ Idaho Code Certification Form

<http://apps.itd.idaho.gov/apps/manuals/manualsonline.html>

- ❖ ITD Quality Assurance Manual
- ❖ ITD Contract Administration Manual

GENERAL INFORMATION

PROPOSAL

The Idaho Transportation Department (ITD) is seeking qualified and experienced respondents from interested firms to submit a proposal to provide overhead structure inspection services.

GENERAL TERMS

This Request for Proposals (RFP) does not commit ITD to enter into an agreement or to pay any costs incurred in the preparation of a proposal or in subsequent negotiations.

REVISIONS TO RFP

All addenda to this solicitation will be posted on the Consultant Services web page. No notice will be given by mail.

RESERVATION OF RIGHTS BY ITD

The issuance of this RFP does not constitute an assurance by ITD that any contract will actually be entered into by ITD, and expressly reserves the right to:

- Waive any immaterial defect or informality in any response or response procedure
- Reject any and all proposals
- Reissue the Request for Proposals
- Invite additional respondents to the proposal
- Request additional information and data from any or all respondents
- Extend the date for submission of responses
- Supplement, amend, or otherwise modify the RFP, and cancel this request with or without the substitution of another RFP
- Disqualify any respondent who fails to provide information or data requested herein or who provides inaccurate or misleading information or data
- Disqualify any respondent on the basis of any real or apparent conflict of interest

By responding to this proposal, each respondent agrees that any finding by ITD of any fact in dispute as to this proposal or the responses thereto shall be final and conclusive, except as provided herein.

CONFLICT OF INTEREST

By the submission of a proposal, the Consultant agrees to ensure that, at the time of contracting, the Consultant will have no interest, direct or indirect, that would conflict in any manner or degree with the performance of the Consultant's obligations under the Agreement. The Consultant shall further covenant that, in the performance of the contract, the Consultant shall not employ any person, or subcontract with any entity, having any such known interest.

EEO REQUIREMENTS

Respondent, by submission of a proposal, agrees to not discriminate against any worker, employee, application subcontractor or any member of the public because of race, color, gender, age, national origin, or disability, or otherwise commit an unfair employment practice. Respondent further agrees to comply with all Federal, State, and Local equal employment opportunity requirements and the requirements of the ITD EEO Special Provisions, accessible at the following web site: <http://apps.itd.idaho.gov/apps/ocr/index.aspx>.

All firms working for the Department area required to register on the Bidder's List with the Office of Civil Rights. If your firm has not registered, go to the following website for instructions: <https://itd.dbesystem.com/>. Please make sure your subconsultants are also registered. For further information regarding this requirement, call the ITD EEO Office at (208) 334-8884.

DBE PARTICIPATION:

In an effort to achieve ITD's DBE Annual Participation Goal (APG) of 10% utilization, ITD respectfully requests and encourages responder to consider utilizing subcontractors and suppliers listed on our DBE Directory located at: <https://itd.dbesystem.com>. For more information regarding ITD's DBE Program, call the ITD DBE coordinator at (208) 334-8567.

FINANCIAL REQUIREMENTS

Prior to negotiating an agreement, the selected consultant and their subconsultants will be required to submit certified hourly rates and their last years' financial information and overhead schedule in accordance with the Federal Acquisition Regulations (FARs) and the ITD Overhead Rate Policy. The Overhead Rate Policy can be viewed at the following web site: <http://apps.itd.idaho.gov/apps/ocr/index.aspx>.

PROPRIETARY MATERIAL

ITD assumes no liability for disclosure of proprietary material submitted by respondents. Proposal submittals shall be considered public documents under applicable state law except to the extent portions of the submittals are otherwise protected under applicable law.

CERTIFICATION REGARDING DEBARMENT

All proposals must contain a signed Certification Regarding Debarment, Suspension, and other Responsibility Matters form for the prime and each subconsultant.

The certification form is located on the Consultant Services web page at <http://itd.idaho.gov/business/?target=consultant-agreements>.

IDAHO CODE CERTIFICATION FORM

All proposals must contain a signed Idaho Code Certification form for the prime and each subconsultant.

The certification form is located on the Consultant Services web page at <http://itd.idaho.gov/business/?target=consultant-agreements>.

PROPOSAL EVALUATION AND SELECTION

An Evaluation Committee will evaluate and determine the individual and comparative merits of each of the proposals received. It is the responsibility of the Consultant to ensure that it complies with this RFP and provides the information requested. If the Consultant fails to provide any information requested in this RFP, such failure may result in either a lowered evaluation score of the proposal or disqualification of the proposal.

It is the intent of the department to take approximately fifteen days, commencing on the submission date shown below, to evaluate the submitted proposals. The department intends to notify the successful and unsuccessful Consultants as soon as practicable after the evaluations have been completed, and after approval has been given on the Evaluation Committee's recommendations.

As part of the selection process, the top-ranked firms may be required, at their expense, to give a presentation and/or answer interview questions.

If your firm is selected and approved, negotiations will begin. If negotiations break down with a selected Consultant, they will be formally ended and negotiations will begin with the next ranked Consultant.

CONTRACT TYPE AND METHOD OF PAYMENT

The contract for this work will be a professional services agreement. It is anticipated that the method of payment will be Specific Rates of Compensation.

CONTACT INFORMATION

All questions concerning the procedures of this request for proposal shall be directed to Christina Straub at ITD via email at Christina.Straub@itd.idaho.gov.

All project specific questions shall be directed by e-mail to Jake Legler at Jake.Legler@itd.idaho.gov. No questions will be accepted by telephone. All questions will be responded to by e-mail, within two

days of receipt of the question(s).

Interested firms are encouraged to submit a contact e-mail address to Mr. Legler with a request to be included on an electronic mailing list. Firms on the mailing list will receive copies of the response to all project questions submitted. No firms will be identified in the responses. No project specific questions will be accepted after April 22, 2025.

PREPARATION INSTRUCTIONS

Proposals must conform to the following instructions. Any non-conforming proposal will be rejected.

Proposals must be received by ITD by 4:00 p.m. MDT on April 29, 2025. Proposals must be submitted via e-mail with the project name and the consultant's name clearly indicated in the subject line. Late proposals will not be considered.

E-Mail Address for proposal submittal is: consultantadminunit@itd.idaho.gov

FORMAT:

- Required File Format: pdf
- Maximum length of the submittal shall be five (5) pages.
- Cover pages are discouraged. If they are included, they will be counted in the proposal page total.
- The introductory letter is limited to one (1) page.
- Except as otherwise noted, pages shall be 8 ½ x 11 inches, with minimum of ½” margins and a minimum font size of 11.

- The following items do not count in the proposal page total.
 - Introductory letter
 - Certification Regarding Debarment
 - The 5-Year ITD CE&I Project Log
 - Idaho Code Certification Form

INTRODUCTORY LETTER

The introductory letter should be addressed to:

Christina Straub
Contracts Officer
Consultant Services
Idaho Transportation Department
P.O. Box 7129
Boise, Idaho 83707-1129

The introductory letter should introduce the Consultant, identify the Project Manager, and list a contact telephone number, and contain a statement confirming the commitment of the key personnel identified in the submittal to meet ITD's quality and schedule expectations. The Consultant shall include his/her acceptance of the terms and provisions of the Sample Agreement located at <http://apps.itd.idaho.gov/apps/ocr/index.aspx>, and indicate willingness to execute said agreement.

PROPOSAL

It is essential that the consultant provide an adequate staff of experienced personnel or subconsultants capable of and devoted to the successful accomplishment of work to be performed under this contract. The specific individuals or subconsultants listed in the proposal, including Project Manager and Lead Inspector, shall be assigned to the key positions and shall not be removed or replaced without the prior written approval of ITD. Replacement personnel submitted for approval must have at least equal qualifications, experience and expertise as those listed in the proposal.

The following criteria will be considered in the evaluation and selection, and apply only to the Consultant, except where specifically requested for the Consultant and each Subconsultant. The weights listed will be applied to the scoring for each criteria.

CRITERIA 1 – COMPANY EXPERIENCE AND QUALIFICATIONS

(Weight 5) *(Complete for Consultant and each Subconsultant)*

- Identify the Project Manager who will be responsible for the quality, timeliness and delivery of the consultant's work, and for ensuring that adequate personnel and other resources are available for this project.
- List current IQP qualifications pertinent to this project.
- Provide Idaho registration (registration is required at the time of submittal) as a professional engineer.
- List all projects that the Project Manager is currently managing and the percent of time spent by him/her on each of those projects. Include estimated completion date for each of those projects. Identify availability.
- List experience of performing OHS inspection work.

CRITERIA 2 – KEY PERSONNEL EXPERIENCE

(Weight 4)

- Identify the Lead Inspector to be assigned to the project and describe the duties and qualifications (WAQTC & IQP) on this project. The Lead Inspector must be **on-site** for no less than 70% of the time worked by the Contractor.
- Include Idaho professional registration (if applicable).
- List all projects that the Lead Inspector is currently working on and the percent of time spent by him/her on each of those projects. Include estimated completion date for each of those projects. Identify availability.
- Describe inspection and BrM experience. Please provide specific examples of pertinent past work.

CRITERIA 3 – OPERATIONS

(Weight 4) *(Complete for Consultant and each Subconsultant)*

- Describe the equipment and manpower to be used on a typical group of OHS inspections, including what equipment would need to be rented and whether a traffic control subcontractor would be necessary.

CRITERIA 4 – QUALITY CONTROL & QUALITY ASSURANCE

(Weight 3)

Describe your QC/QA process for OHS inspections. Demonstrate your QC/QA abilities by the attached manual, mistakes, and areas that need to be developed further.

CRITERIA 5 - INNOVATION

(Weight 3)

- Describe the innovation that you will bring to this contract to save time and effort while still providing accurate inspections in a safe manner.

SCOPE OF WORK

General

This project is to perform overhead sign, signal, and high mast light tower structural safety inspections in accordance with the Idaho Manual for Inspection of Structural Supports for Highway Signs, High Mast Luminaires, and Traffic Signals (2025) Appendix B. The inspection data shall be entered into ITD's BrM system.

Structures

There are 394 inventoried structures to be inspected in 2025 mostly in Districts 3, 4, and 5; There are 386 inventoried structures to be inspected in 2026 mostly in Districts 3, 4, and 6; There are 388 inventoried structures to be inspected in 2027 mostly in Districts 1, 2, 3, and 4 (Appendix A). It is anticipated that there could be up to 30 new structure inventory inspections, and up to 5 emergency inspections per year.

Inspection Requirements

Consultant shall perform a visual and tactile inspection and reporting of all of the structures scoped. The inspection work shall generally follow the recommendations in the guidelines set by most current version of the Federal Highway Administration (FHWA) titles, Guidelines for the Installation, Inspection, Maintenance, and Repair of Structural Supports for Highway Signs, Luminaires, and Traffic Signals (2025). The inspection work shall be performed by qualified individuals. Non-destructive testing shall be performed at the discretion of the Agreement Administrator. At the discretion of the team leader, areas of heavy steel corrosion shall be examined with an ultrasonic thickness gauge to determine magnitude of section loss. If a critical finding is discovered during the inspection work ITD shall be contacted promptly by phone call and follow-up email with photographs.

The Consultant shall be responsible to provide the necessary tools, access equipment, and traffic control to complete the inspection work. Climbing over live traffic is allowed for this project. For those structures traffic control is limited to shoulder closures. For structures with no adjacent shoulders or structures that are not able to be safely climbed there shall be occasional lane closure work at the discretion of the inspection team leader. When climbing over live traffic, all equipment shall be tethered such that nothing can fall onto traffic below. Climbing operations shall be in accordance to OSHA standards for working from heights. Lane closures shall be performed by qualified traffic control companies that may vary depending on the district the inspections are being performed.

If anchor rod nuts are loose tighten to a snug tight condition using reasonable effort, note that a bolt was tightened in Inspection Notes. If corrosion or other defects prevent snug tight condition note this as a maintenance recommendation. If components of the structure are buried and require excavation the inspection team can spend up to 30 minutes using common hand tools (i.e. shovel, hammer, broom, etc.). If the excavation requires more intensive work or additional equipment then the buried structure shall be noted for recommended excavation by ITD as part of scheduled maintenance work. If bolts need to be replaced as part of a maintenance recommendation, please note all information possible for re-ordering purposes.

High quality inspection reports are essential for the management of Idaho's Structural Support Inventory. QA/QC shall be a continual process throughout this project in order to ensure quality work is performed. The QA/QC process shall consist of each team member performing QC of their work in the field with the team leader responsible for overseeing field quality. The team leader and project

manager shall oversee quality in the office.

Emergency Inspection

This scopes for up to 5 emergency inspections. In the case that a structure gets hit or the owner has cause for concern regarding a structure the inspection consultant will inspect the structure in a timely manner on a cost plus fixed fee basis. These emergency inspections may be necessary after the main group of inspections is complete in 2025 up to when the 2026 inspection contract is in place. In the case these inspections occur in when the access equipment is no longer under rental ITD will work with the consultant to provide access.

Deliverables

Monthly submittals to include:

1. Monthly progress report to include:
 - a. A list of structures inspected during the current month.
 - b. A list of structures entered into BrM during the current month.
 - c. A list of structures that have been removed.
 - d. A list of structures that have had work recommendations removed.
 - e. A list of new structures.
 - f. Work completed to date.
2. Monthly invoice.

Inspection reports shall be completed in ITD's BrM and submitted to ITD electronically in PDF format. PDF reports shall be signed by the team leader and the PDF report shall be linked to the inspection record in BrM. Inspection reports are due to ITD by the 10th of the month following the inspection.

Schedule

All scheduled inspection work shall be completed by November 30th of each year. Final reporting shall be completed by December 31st of each year. Emergency inspection work may continue.

Basis of Payment

The basis of payment for this contract is per structure.

BRKEY	DISTRICT	DESIGN	INSPDATE	INSPFREQ	ReqNext	SchedNext
S1000323	1	Sign Bridge - Truss	10/11/2024	12	2025	2025
S2000209	2	Single Mast Arm	9/15/2021	36	2024	2025
S3000398	3	Sign Bridge - Truss	10/5/2022	36	2025	2025
S3000399	3	Cantilever	10/5/2022	36	2025	2025
S3000401	3	Sign Bridge - Truss	8/16/2022	36	2025	2025
S3000402	3	Sign Bridge - Truss	12/6/2019	72	2025	2025
S3000408	3	Single Mast Arm	8/2/2019	72	2025	2025
S3000411	3	Single Mast Arm	8/2/2019	72	2025	2025
S3000413	3	Sign Bridge - Truss	6/26/2024	12	2025	2025
S3000415	3	Cantilever	10/6/2022	36	2025	2025
S3000422	3	Sign Bridge - Truss	12/19/2019	72	2025	2025
S3000426	3	Sign Bridge - Truss	10/6/2022	36	2025	2025
S3000427	3	Sign Bridge - Truss	10/16/2022	36	2025	2025
S3000429	3	Sign Bridge - Truss	10/6/2022	36	2025	2025
S3000430	3	Single Mast Arm	10/6/2022	36	2025	2025
S3000438	3	Single Mast Arm	12/17/2019	72	2025	2025
S3000443	3	Sign Bridge - Truss	10/22/2024	12	2025	2025
S3000447	3	Sign Bridge - Truss	10/6/2022	36	2025	2025
S3000448	3	Cantilever	10/6/2022	36	2025	2025
S3000449	3	Sign Bridge - Truss	12/19/2019	72	2025	2025
S3000451	3	Sign Bridge - Truss	12/19/2019	72	2025	2025
S3000456	3	Sign Bridge - Truss	12/20/2019	72	2025	2025
S3000461	3	Sign Bridge - Truss	12/19/2019	72	2025	2025
S3000462	3	Sign Bridge - Truss	12/19/2019	72	2025	2025
S3000469	3	Single Mast Arm	10/16/2022	36	2025	2025
S3000475	3	Single Mast Arm	10/16/2022	36	2025	2025
S3000483	3	Single Mast Arm	11/12/2019	72	2025	2025
S3000519	3	Single Mast Arm	9/16/2022	36	2025	2025
S3000523	3	Single Mast Arm	12/17/2019	72	2025	2025
S3000529	3	Single Mast Arm	12/17/2019	72	2025	2025
S3000544	3	Single Mast Arm	5/12/2022	36	2025	2025
S3000545	3	Single Mast Arm	9/19/2019	72	2025	2025
S3000556	3	Single Mast Arm	9/13/2022	36	2025	2025
S3000558	3	Single Mast Arm	9/13/2022	36	2025	2025
S3000559	3	Single Mast Arm	9/13/2022	36	2025	2025
S3000568	3	Single Mast Arm	10/15/2019	72	2025	2025
S3000584	3	Single Mast Arm	9/15/2022	36	2025	2025
S3000597	3	Single Mast Arm	12/16/2019	72	2025	2025
S3000604	3	Single Mast Arm	11/13/2019	72	2025	2025
S3000610	3	Single Mast Arm	10/5/2022	36	2025	2025
S3000615	3	Single Mast Arm	10/5/2022	36	2025	2025
S3000619	3	Single Mast Arm	12/17/2019	72	2025	2025
S3000623	3	Sign Bridge - Truss	10/5/2022	36	2025	2025
S3000624	3	Sign Bridge - Truss	10/5/2022	36	2025	2025
S3000628	3	Single Mast Arm	12/16/2019	72	2025	2025
S3000655	3	Single Mast Arm	9/15/2022	36	2025	2025

S3000657	3	Single Mast Arm	11/13/2019	72	2025	2025
S3000658	3	Single Mast Arm	9/15/2022	36	2025	2025
S3000671	3	Single Mast Arm	11/13/2019	72	2025	2025
S3000681	3	Single Mast Arm	8/25/2022	36	2025	2025
S3000684	3	Single Mast Arm	8/25/2022	36	2025	2025
S3000687	3	Single Mast Arm	8/25/2022	36	2025	2025
S3000696	3	Single Mast Arm	8/25/2022	36	2025	2025
S3000709	3	Single Mast Arm	7/8/2022	36	2025	2025
S3000726	3	Cantilever	7/6/2022	36	2025	2025
S3000728	3	Cantilever	7/6/2022	36	2025	2025
S3000729	3	Cantilever	7/6/2022	36	2025	2025
S3000738	3	Single Mast Arm	8/8/2019	72	2025	2025
S3000742	3	Butterfly	7/6/2022	36	2025	2025
S3000752	3	Single Mast Arm	9/15/2022	36	2025	2025
S3000760	3	Single Mast Arm	9/16/2022	36	2025	2025
S3000761	3	Single Mast Arm	9/16/2022	36	2025	2025
S3000762	3	Single Mast Arm	6/15/2022	36	2025	2025
S3000763	3	Single Mast Arm	6/15/2022	36	2025	2025
S3000767	3	Single Mast Arm	6/15/2022	36	2025	2025
S3000774	3	Single Mast Arm	6/15/2022	36	2025	2025
S3000776	3	Single Mast Arm	7/31/2019	72	2025	2025
S3000779	3	Single Mast Arm	6/15/2022	36	2025	2025
S3000780	3	Single Mast Arm	6/15/2022	36	2025	2025
S3000782	3	Single Mast Arm	10/4/2022	36	2025	2025
S3000785	3	Single Mast Arm	12/16/2019	72	2025	2025
S3000787	3	Single Mast Arm	11/13/2019	72	2025	2025
S3000788	3	Single Mast Arm	11/13/2019	72	2025	2025
S3000790	3	Single Mast Arm	11/13/2019	72	2025	2025
S3000796	3	Single Mast Arm	10/29/2024	12	2025	2025
S3000798	3	Cantilever	9/12/2022	36	2025	2025
S3000799	3	Cantilever	9/12/2022	36	2025	2025
S3000810	3	Single Mast Arm	5/17/2022	36	2025	2025
S3000811	3	Single Mast Arm	5/17/2022	36	2025	2025
S3000839	3	Single Mast Arm	9/14/2022	36	2025	2025
S3000840	3	Single Mast Arm	12/5/2019	72	2025	2025
S3000844	3	Sign Bridge - Truss	12/18/2019	72	2025	2025
S3000845	3	Single Mast Arm	12/18/2019	72	2025	2025
S3000850	3	Single Mast Arm	9/14/2022	36	2025	2025
S3000861	3	Single Mast Arm	10/17/2019	72	2025	2025
S3000863	3	Single Mast Arm	10/17/2019	72	2025	2025
S3000865	3	Single Mast Arm	10/17/2019	72	2025	2025
S3000866	3	Single Mast Arm	10/5/2022	36	2025	2025
S3000929	3	Single Mast Arm	10/15/2019	72	2025	2025
S3000932	3	Single Mast Arm	5/17/2022	36	2025	2025
S3000940	3	Single Mast Arm	5/17/2022	36	2025	2025
S3000952	3	Single Mast Arm	10/16/2019	72	2025	2025
S3000965	3	Single Mast Arm	9/20/2019	72	2025	2025

S3000976	3	Single Mast Arm	9/13/2022	36	2025	2025
S3001000	3	Single Mast Arm	9/20/2019	72	2025	2025
S3001021	3	Sign Bridge - Truss	7/8/2022	36	2025	2025
S3001023	3	Sign Bridge - Truss	10/18/2022	36	2025	2025
S3001024	3	Sign Bridge - Truss	12/18/2019	72	2025	2025
S3001027	3	Cantilever	12/18/2019	72	2025	2025
S3001028	3	Sign Bridge - Truss	12/6/2019	72	2025	2025
S3001030	3	Sign Bridge - Truss	8/20/2019	72	2025	2025
S3001033	3	Cantilever	8/15/2022	36	2025	2025
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S3001037	3	Single Mast Arm	8/20/2019	72	2025	2025
S3001038	3	Sign Bridge - Truss	12/5/2019	72	2025	2025
S3001044	3	Single Mast Arm	8/20/2019	72	2025	2025
S3001045	3	Single Mast Arm	8/20/2019	72	2025	2025
S3001047	3	Cantilever	8/16/2022	36	2025	2025
S3001050	3	Cantilever	7/13/2022	36	2025	2025
S3001053	3	Sign Bridge - Truss	8/16/2022	36	2025	2025
S3001055	3	Single Mast Arm	5/17/2022	36	2025	2025
S3001078	3	Cantilever	11/12/2019	72	2025	2025
S3001080	3	Single Mast Arm	6/16/2022	36	2025	2025
S3001090	3	Single Mast Arm	12/18/2019	72	2025	2025
S3001119	3	High Mast	5/4/2022	36	2025	2025
S3001121	3	High Mast	8/2/2019	72	2025	2025
S3001130	3	Cantilever	6/15/2022	36	2025	2025
S3001139	3	Single Mast Arm	12/18/2019	72	2025	2025
S3001164	3	Single Mast Arm	10/17/2019	72	2025	2025
S3001179	3	Single Mast Arm	11/12/2019	72	2025	2025
S3001197	3	Single Mast Arm	5/10/2022	36	2025	2025
S3001198	3	Single Mast Arm	9/20/2019	72	2025	2025
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S3001244	3	Cantilever	12/6/2019	72	2025	2025
S3001246	3	Butterfly	10/16/2022	36	2025	2025
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S3001255	3	Sign Bridge - Truss	6/24/2022	36	2025	2025
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S3001306	3	Single Mast Arm	10/16/2019	72	2025	2025
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S3001372	3	Single Mast Arm	8/20/2019	72	2025	2025

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S3001384	3	Single Mast Arm	12/16/2019	72	2025	2025
S3001385	3	Single Mast Arm	12/16/2019	72	2025	2025
S3001386	3	Single Mast Arm	12/16/2019	72	2025	2025
S3001387	3	Single Mast Arm	12/16/2019	72	2025	2025
S3001388	3	Single Mast Arm	12/16/2019	72	2025	2025
S3001389	3	Single Mast Arm	12/16/2019	72	2025	2025
S3001390	3	Single Mast Arm	12/20/2019	72	2025	2025
S3001449	3	Cantilever	10/11/2022	36	2025	2025
S4001205	4	Cantilever	9/10/2024	12	2025	2025
S4001208	4	Single Mast Arm	9/20/2022	36	2025	2025
S4001229	4	Single Mast Arm	9/10/2024	12	2025	2025
S4001240	4	Single Mast Arm	8/15/2024	12	2025	2025
S4001412	4	Single Mast Arm	8/15/2024	12	2025	2025
S4001435	4	Span	9/19/2022	36	2025	2025
S4001451	4	Butterfly	9/19/2022	36	2025	2025
S4001454	4	Single Mast Arm	8/14/2024	12	2025	2025
S4001511	4	Cantilever	9/19/2022	36	2025	2025
S4001512	4	Cantilever	9/19/2022	36	2025	2025
S4001524	4	High Mast	5/28/2024	12	2025	2025
S4001570	4	Single Mast Arm	9/20/2022	36	2025	2025
S5001500	5	Single Mast Arm	9/23/2019	72	2025	2025
S5001501	5	Single Mast Arm	9/23/2019	72	2025	2025
S5001507	5	Cantilever	8/23/2022	36	2025	2025
S5001508	5	Cantilever	9/23/2019	72	2025	2025
S5001509	5	Single Mast Arm	8/23/2022	36	2025	2025
S5001510	5	Single Mast Arm	9/23/2019	72	2025	2025
S5001512	5	Single Mast Arm	8/13/2019	72	2025	2025
S5001513	5	Single Mast Arm	8/13/2019	72	2025	2025
S5001514	5	Single Mast Arm	8/13/2019	72	2025	2025
S5001515	5	Single Mast Arm	8/13/2019	72	2025	2025
S5001519	5	Single Mast Arm	8/13/2019	72	2025	2025
S5001520	5	Single Mast Arm	8/13/2019	72	2025	2025
S5001521	5	Single Mast Arm	8/13/2019	72	2025	2025
S5001522	5	Single Mast Arm	8/13/2019	72	2025	2025
S5001523	5	Span	8/13/2019	72	2025	2025
S5001524	5	Single Mast Arm	8/13/2019	72	2025	2025

S5001525	5	Single Mast Arm	8/13/2019	72	2025	2025
S5001526	5	Single Mast Arm	8/13/2019	72	2025	2025
S5001527	5	Single Mast Arm	8/13/2019	72	2025	2025
S5001528	5	Single Mast Arm	8/13/2019	72	2025	2025
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S5001539	5	Single Mast Arm	8/23/2022	36	2025	2025
S5001540	5	Single Mast Arm	8/14/2019	72	2025	2025
S5001541	5	Single Mast Arm	8/23/2022	36	2025	2025
S5001542	5	Single Mast Arm	8/14/2019	72	2025	2025
S5001543	5	Single Mast Arm	8/14/2019	72	2025	2025
S5001544	5	Single Mast Arm	8/14/2019	72	2025	2025
S5001545	5	Single Mast Arm	8/14/2019	72	2025	2025
S5001546	5	Single Mast Arm	8/14/2019	72	2025	2025
S5001550	5	Cantilever	8/23/2022	36	2025	2025
S5001553	5	Single Mast Arm	9/24/2019	72	2025	2025
S5001554	5	Single Mast Arm	9/24/2019	72	2025	2025
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S5001556	5	Single Mast Arm	9/24/2019	72	2025	2025
S5001557	5	Single Mast Arm	9/24/2019	72	2025	2025
S5001564	5	Single Mast Arm	8/15/2019	72	2025	2025
S5001565	5	Single Mast Arm	8/15/2019	72	2025	2025
S5001566	5	Single Mast Arm	8/15/2019	72	2025	2025
S5001567	5	Single Mast Arm	8/15/2019	72	2025	2025
S5001568	5	Single Mast Arm	10/23/2019	72	2025	2025
S5001569	5	Single Mast Arm	10/23/2019	72	2025	2025
S5001573	5	Span	8/15/2019	72	2025	2025
S5001574	5	Single Mast Arm	9/25/2019	72	2025	2025
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S5001576	5	Single Mast Arm	9/25/2019	72	2025	2025
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S5001583	5	Single Mast Arm	10/23/2019	72	2025	2025
S5001584	5	Single Mast Arm	10/23/2019	72	2025	2025
S5001585	5	Single Mast Arm	10/23/2019	72	2025	2025
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S5001588	5	Single Mast Arm	10/24/2019	72	2025	2025

S5001589	5	Single Mast Arm	10/24/2019	72	2025	2025
S5001590	5	Single Mast Arm	10/24/2019	72	2025	2025
S5001591	5	Cantilever	10/24/2019	72	2025	2025
S5001592	5	Sign Bridge - Truss	8/19/2022	36	2025	2025
S5001593	5	Cantilever	12/11/2019	72	2025	2025
S5001594	5	Sign Bridge - Truss	8/13/2024	12	2025	2025
S5001595	5	Sign Bridge - Truss	12/11/2019	72	2025	2025
S5001596	5	Cantilever	10/23/2019	72	2025	2025
S5001598	5	Cantilever	11/21/2019	72	2025	2025
S5001828	5	Sign Bridge - Truss	11/20/2019	72	2025	2025
S5001829	5	Single Mast Arm	11/20/2019	72	2025	2025
S5001830	5	Single Mast Arm	11/20/2019	72	2025	2025
S5001831	5	Single Mast Arm	11/20/2019	72	2025	2025
S5001832	5	Cantilever	8/24/2022	36	2025	2025
S5001834	5	Single Mast Arm	9/24/2019	72	2025	2025
S5001835	5	Single Mast Arm	9/24/2019	72	2025	2025
S5001836	5	Single Mast Arm	9/24/2019	72	2025	2025
S5001837	5	Single Mast Arm	9/24/2019	72	2025	2025
S5001838	5	Single Mast Arm	9/24/2019	72	2025	2025
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S5001841	5	Single Mast Arm	9/24/2019	72	2025	2025
S5001842	5	Single Mast Arm	10/23/2019	72	2025	2025
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S5001844	5	Single Mast Arm	10/23/2019	72	2025	2025
S5001845	5	Single Mast Arm	8/19/2022	36	2025	2025
S5001846	5	Single Mast Arm	10/23/2019	72	2025	2025
S5001847	5	Single Mast Arm	10/23/2019	72	2025	2025
S5001848	5	Single Mast Arm	10/23/2019	72	2025	2025
S5001850	5	Cantilever	8/19/2022	36	2025	2025
S5001851	5	Cantilever	8/19/2022	36	2025	2025
S5001856	5	Single Mast Arm	8/24/2022	36	2025	2025
S5001857	5	Single Mast Arm	10/21/2019	72	2025	2025
S5001858	5	Single Mast Arm	10/21/2019	72	2025	2025
S5001859	5	Single Mast Arm	10/21/2019	72	2025	2025
S5001860	5	Single Mast Arm	10/21/2019	72	2025	2025
S5001861	5	Single Mast Arm	10/21/2019	72	2025	2025
S5001862	5	Single Mast Arm	10/21/2019	72	2025	2025
S5001863	5	Single Mast Arm	8/24/2022	36	2025	2025
S5001866	5	Single Mast Arm	10/21/2019	72	2025	2025
S5001867	5	Single Mast Arm	10/21/2019	72	2025	2025
S5001868	5	Single Mast Arm	10/21/2019	72	2025	2025
S5001869	5	Single Mast Arm	10/21/2019	72	2025	2025
S5001870	5	Single Mast Arm	10/22/2019	72	2025	2025
S5001871	5	Single Mast Arm	9/9/2024	12	2025	2025
S5001872	5	Single Mast Arm	8/24/2022	36	2025	2025
S5001873	5	Single Mast Arm	10/22/2019	72	2025	2025

S5001874	5	Single Mast Arm	10/22/2019	72	2025	2025
S5001875	5	Single Mast Arm	10/22/2019	72	2025	2025
S5001876	5	Single Mast Arm	8/22/2022	36	2025	2025
S5001885	5	Single Mast Arm	10/22/2019	72	2025	2025
S5001886	5	Single Mast Arm	10/22/2019	72	2025	2025
S5001887	5	Single Mast Arm	8/22/2022	36	2025	2025
S5001888	5	Single Mast Arm	10/22/2019	72	2025	2025
S5001889	5	Single Mast Arm	10/22/2019	72	2025	2025
S5001890	5	Single Mast Arm	10/22/2019	72	2025	2025
S5001891	5	Single Mast Arm	10/22/2019	72	2025	2025
S5001892	5	Single Mast Arm	10/22/2019	72	2025	2025
S5001893	5	Single Mast Arm	10/22/2019	72	2025	2025
S5001894	5	Single Mast Arm	10/22/2019	72	2025	2025
S5001895	5	Single Mast Arm	8/22/2022	36	2025	2025
S5001896	5	Single Mast Arm	8/22/2022	36	2025	2025
S5001897	5	Single Mast Arm	8/22/2022	36	2025	2025
S5001898	5	Span	8/22/2022	36	2025	2025
S5001901	5	Span	8/22/2022	36	2025	2025
S5001907	5	Single Mast Arm	8/18/2022	36	2025	2025
S5001908	5	Single Mast Arm	8/18/2022	36	2025	2025
S5001909	5	Single Mast Arm	8/18/2022	36	2025	2025
S5001914	5	Single Mast Arm	8/18/2022	36	2025	2025
S5001915	5	Single Mast Arm	8/18/2022	36	2025	2025
S5001916	5	Single Mast Arm	12/11/2019	72	2025	2025
S5001917	5	Single Mast Arm	12/11/2019	72	2025	2025
S5001918	5	Single Mast Arm	12/11/2019	72	2025	2025
S5001919	5	Single Mast Arm	12/11/2019	72	2025	2025
S5001920	5	Single Mast Arm	12/11/2019	72	2025	2025
S5001929	5	Single Mast Arm	12/10/2019	72	2025	2025
S5001930	5	Single Mast Arm	12/10/2019	72	2025	2025
S5001931	5	Single Mast Arm	12/10/2019	72	2025	2025
S5001932	5	Single Mast Arm	12/10/2019	72	2025	2025
S5001936	5	Cantilever	11/21/2019	72	2025	2025
S5001937	5	Sign Bridge - Truss	11/21/2019	72	2025	2025
S5001948	5	Single Mast Arm	12/9/2019	72	2025	2025
S5001949	5	Single Mast Arm	12/9/2019	72	2025	2025
S5001950	5	Single Mast Arm	12/9/2019	72	2025	2025
S5001951	5	Single Mast Arm	12/9/2019	72	2025	2025
S5001952	5	Single Mast Arm	9/23/2019	72	2025	2025
S5001953	5	Single Mast Arm	9/23/2019	72	2025	2025
S5001954	5	Single Mast Arm	9/23/2019	72	2025	2025
S5001955	5	Single Mast Arm	9/24/2019	72	2025	2025
S5001956	5	Single Mast Arm	9/24/2019	72	2025	2025
S5001957	5	Single Mast Arm	9/24/2019	72	2025	2025
S5001958	5	Cantilever	8/23/2022	36	2025	2025
S5001959	5	Span	8/14/2019	72	2025	2025
S5001960	5	Single Mast Arm	12/9/2019	72	2025	2025

S5001961	5	Single Mast Arm	12/9/2019	72	2025	2025
S5001962	5	Single Mast Arm	11/22/2019	72	2025	2025
S5001963	5	Single Mast Arm	11/22/2019	72	2025	2025
S5001964	5	Single Mast Arm	11/22/2019	72	2025	2025
S5001965	5	Single Mast Arm	11/22/2019	72	2025	2025
S5001966	5	Sign Bridge - Truss	11/22/2019	72	2025	2025
S5001967	5	Sign Bridge - Truss	11/22/2019	72	2025	2025
S5001968	5	Sign Bridge - Truss	12/9/2019	72	2025	2025
S5001969	5	Sign Bridge - Truss	11/22/2019	72	2025	2025
S5001970	5	Sign Bridge - Truss	12/9/2019	72	2025	2025
S5001971	5	High Mast	11/22/2019	72	2025	2025
S5001972	5	High Mast	11/22/2019	72	2025	2025
S5001973	5	Cantilever	8/23/2022	36	2025	2025
S5001975	5	Cantilever	11/21/2019	72	2025	2025
S5001976	5	Sign Bridge - Truss	11/21/2019	72	2025	2025
S5001978	5	Span	8/14/2019	72	2025	2025
S5001980	5	Cantilever	8/24/2022	36	2025	2025
S5001981	5	Cantilever	11/21/2019	72	2025	2025
S5001982	5	Single Mast Arm	9/25/2019	72	2025	2025
S5001983	5	Single Mast Arm	9/25/2019	72	2025	2025
S5001984	5	Single Mast Arm	9/25/2019	72	2025	2025
S5001985	5	Single Mast Arm	9/25/2019	72	2025	2025
S5001986	5	Single Mast Arm	12/10/2019	72	2025	2025
S5001987	5	Single Mast Arm	12/10/2019	72	2025	2025
S5001988	5	Single Mast Arm	12/10/2019	72	2025	2025
S5001989	5	Single Mast Arm	12/10/2019	72	2025	2025
S5001990	5	Single Mast Arm	12/10/2019	72	2025	2025
S5001991	5	Single Mast Arm	12/10/2019	72	2025	2025
S5001992	5	Single Mast Arm	12/10/2019	72	2025	2025
S5001993	5	Single Mast Arm	12/10/2019	72	2025	2025
S5001994	5	Single Mast Arm	8/23/2022	36	2025	2025
S5001995	5	Single Mast Arm	12/10/2019	72	2025	2025
S5001996	5	Single Mast Arm	12/10/2019	72	2025	2025
S5001997	5	Single Mast Arm	12/10/2019	72	2025	2025
S5001998	5	Single Mast Arm	12/9/2019	72	2025	2025
S5001999	5	Single Mast Arm	12/9/2019	72	2025	2025
S5002000	5	Single Mast Arm	12/9/2019	72	2025	2025
S5002001	5	Single Mast Arm	12/9/2019	72	2025	2025
S5002002	5	Single Mast Arm	12/10/2019	72	2025	2025
S5002003	5	Single Mast Arm	12/10/2019	72	2025	2025
S5002004	5	Single Mast Arm	12/10/2019	72	2025	2025
S5002005	5	Single Mast Arm	12/10/2019	72	2025	2025
S5002006	5	Single Mast Arm	12/10/2019	72	2025	2025
S5002007	5	Single Mast Arm	12/10/2019	72	2025	2025
S5002008	5	Single Mast Arm	12/10/2019	72	2025	2025
S5002009	5	Single Mast Arm	12/10/2019	72	2025	2025
S5002010	5	Single Mast Arm	10/23/2019	72	2025	2025

S5002011	5	Single Mast Arm	10/23/2019	72	2025	2025
S5002012	5	Single Mast Arm	9/24/2019	72	2025	2025
S5002013	5	Single Mast Arm	9/24/2019	72	2025	2025
S5002014	5	Single Mast Arm	10/22/2019	72	2025	2025
S5002015	5	Single Mast Arm	10/22/2019	72	2025	2025
S5002016	5	Single Mast Arm	10/21/2019	72	2025	2025
S5002017	5	Single Mast Arm	10/21/2019	72	2025	2025
S5002018	5	Sign Bridge - Truss	11/21/2019	72	2025	2025
S5002019	5	Sign Bridge - Truss	11/21/2019	72	2025	2025
S5002020	5	Sign Bridge - Truss	10/23/2019	72	2025	2025
S5002021	5	Sign Bridge - Truss	10/23/2019	72	2025	2025
S5002023	5	Cantilever	8/13/2019	72	2025	2025
S5002024	5	Single Mast Arm	9/23/2019	72	2025	2025
S5002025	5	Cantilever	10/22/2019	72	2025	2025
S5002026	5	Cantilever	10/23/2019	72	2025	2025
S5002027	5	Sign Bridge - Truss	12/11/2019	72	2025	2025
S6001636	6	Cantilever	8/13/2024	12	2025	2025
S6001750	6	Single Mast Arm	8/13/2024	12	2025	2025

BRKEY	DISTRICT	DESIGN	INSPDATE	INSPFREQ	ReqNext	SchedNext
S3000441	3	Single Mast Arm	9/7/2023	36	2026	2026
S3000473	3	Single Mast Arm	9/13/2023	36	2026	2026
S3000522	3	Cantilever	7/18/2023	36	2026	2026
S3000526	3	Single Mast Arm	4/1/2020	72	2026	2026
S3000527	3	Single Mast Arm	4/1/2020	72	2026	2026
S3000528	3	Single Mast Arm	4/1/2020	72	2026	2026
S3000572	3	Single Mast Arm	4/1/2020	72	2026	2026
S3000577	3	Single Mast Arm	4/2/2020	72	2026	2026
S3000578	3	Single Mast Arm	4/2/2020	72	2026	2026
S3000579	3	Single Mast Arm	4/2/2020	72	2026	2026
S3000581	3	Single Mast Arm	4/2/2020	72	2026	2026
S3000582	3	Single Mast Arm	4/2/2020	72	2026	2026
S3000589	3	Single Mast Arm	4/2/2020	72	2026	2026
S3000590	3	Single Mast Arm	4/2/2020	72	2026	2026
S3000596	3	Single Mast Arm	4/2/2020	72	2026	2026
S3000602	3	Single Mast Arm	4/2/2020	72	2026	2026
S3000603	3	Single Mast Arm	4/2/2020	72	2026	2026
S3000606	3	Single Mast Arm	4/2/2020	72	2026	2026
S3000607	3	Single Mast Arm	4/2/2020	72	2026	2026
S3000612	3	Single Mast Arm	4/2/2020	72	2026	2026
S3000613	3	Single Mast Arm	4/2/2020	72	2026	2026
S3000620	3	Single Mast Arm	9/7/2023	36	2026	2026
S3000633	3	Single Mast Arm	9/6/2023	36	2026	2026
S3000636	3	Single Mast Arm	8/9/2023	36	2026	2026
S3000650	3	Single Mast Arm	9/12/2023	36	2026	2026
S3000653	3	Single Mast Arm	9/12/2023	36	2026	2026
S3000680	3	Single Mast Arm	5/4/2020	72	2026	2026
S3000682	3	Single Mast Arm	5/4/2020	72	2026	2026
S3000683	3	Single Mast Arm	5/4/2020	72	2026	2026
S3000685	3	Single Mast Arm	5/1/2020	72	2026	2026
S3000686	3	Single Mast Arm	5/1/2020	72	2026	2026
S3000688	3	Single Mast Arm	5/4/2020	72	2026	2026
S3000689	3	Single Mast Arm	5/4/2020	72	2026	2026
S3000690	3	Single Mast Arm	5/4/2020	72	2026	2026
S3000691	3	Single Mast Arm	5/4/2020	72	2026	2026
S3000694	3	Span	5/4/2020	72	2026	2026
S3000697	3	Single Mast Arm	5/4/2020	72	2026	2026
S3000698	3	Single Mast Arm	5/4/2020	72	2026	2026
S3000699	3	Single Mast Arm	5/4/2020	72	2026	2026
S3000731	3	Single Mast Arm	5/1/2020	72	2026	2026
S3000732	3	Single Mast Arm	5/1/2020	72	2026	2026
S3000733	3	Single Mast Arm	5/1/2020	72	2026	2026
S3000736	3	Single Mast Arm	5/1/2020	72	2026	2026
S3000737	3	Single Mast Arm	5/1/2020	72	2026	2026
S3000739	3	Single Mast Arm	4/30/2020	72	2026	2026
S3000740	3	Single Mast Arm	4/30/2020	72	2026	2026

S3000743	3	Single Mast Arm	5/5/2020	72	2026	2026
S3000764	3	Single Mast Arm	4/3/2020	72	2026	2026
S3000766	3	Single Mast Arm	4/3/2020	72	2026	2026
S3000768	3	Single Mast Arm	4/3/2020	72	2026	2026
S3000769	3	Single Mast Arm	4/3/2020	72	2026	2026
S3000770	3	Single Mast Arm	4/3/2020	72	2026	2026
S3000771	3	Single Mast Arm	4/3/2020	72	2026	2026
S3000772	3	Single Mast Arm	4/3/2020	72	2026	2026
S3000773	3	Single Mast Arm	4/3/2020	72	2026	2026
S3000775	3	Single Mast Arm	4/3/2020	72	2026	2026
S3000793	3	Single Mast Arm	5/4/2020	72	2026	2026
S3000794	3	Single Mast Arm	5/4/2020	72	2026	2026
S3000795	3	Single Mast Arm	5/4/2020	72	2026	2026
S3000869	3	Single Mast Arm	9/12/2023	36	2026	2026
S3000875	3	Single Mast Arm	5/4/2020	72	2026	2026
S3000876	3	Single Mast Arm	5/4/2020	72	2026	2026
S3000879	3	Single Mast Arm	5/5/2020	72	2026	2026
S3000880	3	Single Mast Arm	5/5/2020	72	2026	2026
S3000881	3	Single Mast Arm	5/5/2020	72	2026	2026
S3000882	3	Single Mast Arm	5/5/2020	72	2026	2026
S3000941	3	Single Mast Arm	8/1/2023	36	2026	2026
S3000956	3	Single Mast Arm	8/1/2023	36	2026	2026
S3000966	3	Single Mast Arm	8/2/2023	36	2026	2026
S3001122	3	Single Mast Arm	5/5/2020	72	2026	2026
S3001123	3	Single Mast Arm	5/5/2020	72	2026	2026
S3001124	3	Single Mast Arm	5/5/2020	72	2026	2026
S3001125	3	Single Mast Arm	5/5/2020	72	2026	2026
S3001127	3	Single Mast Arm	5/4/2020	72	2026	2026
S3001128	3	Single Mast Arm	5/4/2020	72	2026	2026
S3001131	3	Single Mast Arm	4/3/2020	72	2026	2026
S3001132	3	Single Mast Arm	4/3/2020	72	2026	2026
S3001133	3	Single Mast Arm	4/3/2020	72	2026	2026
S3001134	3	Single Mast Arm	4/3/2020	72	2026	2026
S3001166	3	Single Mast Arm	4/30/2020	72	2026	2026
S3001317	3	Single Mast Arm	4/30/2020	72	2026	2026
S3001318	3	Single Mast Arm	4/30/2020	72	2026	2026
S3001319	3	Single Mast Arm	4/30/2020	72	2026	2026
S3001320	3	Single Mast Arm	4/30/2020	72	2026	2026
S3001321	3	Single Mast Arm	5/1/2020	72	2026	2026
S3001322	3	Single Mast Arm	5/1/2020	72	2026	2026
S3001323	3	Single Mast Arm	5/1/2020	72	2026	2026
S3001324	3	Single Mast Arm	5/1/2020	72	2026	2026
S3001332	3	Single Mast Arm	6/8/2023	36	2026	2026
S3001337	3	Single Mast Arm	6/8/2023	36	2026	2026
S3001338	3	Span	6/8/2023	36	2026	2026
S3001391	3	Single Mast Arm	8/24/2020	72	2026	2026
S3001392	3	Single Mast Arm	8/24/2020	72	2026	2026

S3001393	3	Single Mast Arm	8/24/2020	72	2026	2026
S3001394	3	Single Mast Arm	8/24/2020	72	2026	2026
S3001395	3	Single Mast Arm	9/28/2020	72	2026	2026
S3001396	3	Single Mast Arm	9/28/2020	72	2026	2026
S3001397	3	Single Mast Arm	9/28/2020	72	2026	2026
S3001398	3	Single Mast Arm	9/28/2020	72	2026	2026
S3001399	3	Single Mast Arm	9/28/2020	72	2026	2026
S3001400	3	Single Mast Arm	9/28/2020	72	2026	2026
S4001176	4	Cantilever	5/15/2020	72	2026	2026
S4001195	4	Single Mast Arm	6/15/2023	36	2026	2026
S4001196	4	Single Mast Arm	6/12/2020	72	2026	2026
S4001203	4	Single Mast Arm	6/12/2020	72	2026	2026
S4001207	4	Sign Bridge - Truss	6/15/2023	36	2026	2026
S4001210	4	Single Mast Arm	6/9/2020	72	2026	2026
S4001213	4	Single Mast Arm	6/10/2020	72	2026	2026
S4001214	4	Single Mast Arm	6/15/2023	36	2026	2026
S4001216	4	Single Mast Arm	6/14/2023	36	2026	2026
S4001217	4	Single Mast Arm	6/14/2023	36	2026	2026
S4001218	4	Single Mast Arm	6/14/2023	36	2026	2026
S4001219	4	Single Mast Arm	6/14/2023	36	2026	2026
S4001220	4	Single Mast Arm	6/14/2023	36	2026	2026
S4001221	4	Single Mast Arm	5/6/2020	72	2026	2026
S4001225	4	Single Mast Arm	6/10/2020	72	2026	2026
S4001228	4	Single Mast Arm	6/14/2023	36	2026	2026
S4001241	4	Cantilever	5/18/2023	36	2026	2026
S4001245	4	Sign Bridge - Truss	6/15/2023	36	2026	2026
S4001253	4	Single Mast Arm	6/14/2023	36	2026	2026
S4001256	4	Single Mast Arm	6/10/2020	72	2026	2026
S4001258	4	Single Mast Arm	6/10/2020	72	2026	2026
S4001259	4	Single Mast Arm	6/14/2023	36	2026	2026
S4001260	4	Single Mast Arm	6/14/2023	36	2026	2026
S4001263	4	Single Mast Arm	6/15/2023	36	2026	2026
S4001266	4	Single Mast Arm	6/10/2020	72	2026	2026
S4001267	4	Single Mast Arm	6/10/2020	72	2026	2026
S4001270	4	Single Mast Arm	5/6/2020	72	2026	2026
S4001273	4	Single Mast Arm	5/6/2020	72	2026	2026
S4001275	4	Single Mast Arm	5/6/2020	72	2026	2026
S4001276	4	Single Mast Arm	5/6/2020	72	2026	2026
S4001279	4	Single Mast Arm	5/7/2020	72	2026	2026
S4001286	4	Single Mast Arm	6/13/2023	36	2026	2026
S4001287	4	Single Mast Arm	6/13/2023	36	2026	2026
S4001289	4	Single Mast Arm	6/13/2023	36	2026	2026
S4001294	4	Single Mast Arm	6/13/2023	36	2026	2026
S4001310	4	Single Mast Arm	5/7/2020	72	2026	2026
S4001312	4	Span	6/15/2023	36	2026	2026
S4001313	4	Span	6/15/2023	36	2026	2026
S4001315	4	Single Mast Arm	5/6/2020	72	2026	2026

S4001332	4	Single Mast Arm	5/19/2023	36	2026	2026
S4001333	4	Single Mast Arm	5/19/2023	36	2026	2026
S4001334	4	Single Mast Arm	5/19/2023	36	2026	2026
S4001336	4	Single Mast Arm	5/19/2023	36	2026	2026
S4001338	4	Single Mast Arm	6/11/2020	72	2026	2026
S4001340	4	Single Mast Arm	6/11/2020	72	2026	2026
S4001357	4	Single Mast Arm	6/11/2020	72	2026	2026
S4001363	4	Single Mast Arm	6/11/2020	72	2026	2026
S4001371	4	Single Mast Arm	6/15/2023	36	2026	2026
S4001372	4	Single Mast Arm	6/15/2023	36	2026	2026
S4001373	4	Single Mast Arm	5/8/2020	72	2026	2026
S4001374	4	Single Mast Arm	6/15/2023	36	2026	2026
S4001376	4	Single Mast Arm	6/15/2023	36	2026	2026
S4001378	4	Single Mast Arm	6/15/2023	36	2026	2026
S4001379	4	Cantilever	6/14/2023	36	2026	2026
S4001381	4	Single Mast Arm	6/15/2023	36	2026	2026
S4001384	4	Single Mast Arm	6/15/2023	36	2026	2026
S4001389	4	Single Mast Arm	5/15/2020	72	2026	2026
S4001391	4	Double Mast Arm	5/19/2023	36	2026	2026
S4001400	4	Sign Bridge - Truss	5/18/2023	36	2026	2026
S4001401	4	Cantilever	5/18/2023	36	2026	2026
S4001404	4	Single Mast Arm	5/18/2023	36	2026	2026
S4001409	4	Single Mast Arm	7/22/2020	72	2026	2026
S4001411	4	Single Mast Arm	5/18/2023	36	2026	2026
S4001414	4	Single Mast Arm	7/22/2020	72	2026	2026
S4001415	4	Single Mast Arm	5/18/2023	36	2026	2026
S4001423	4	Span	7/23/2020	72	2026	2026
S4001428	4	Single Mast Arm	6/12/2023	36	2026	2026
S4001434	4	Span	6/12/2023	36	2026	2026
S4001437	4	Span	7/23/2020	72	2026	2026
S4001452	4	Single Mast Arm	5/18/2023	36	2026	2026
S4001458	4	Span	6/12/2023	36	2026	2026
S4001468	4	Single Mast Arm	6/12/2023	36	2026	2026
S4001504	4	High Mast	7/22/2020	72	2026	2026
S4001510	4	Cantilever	6/10/2020	72	2026	2026
S4001513	4	Single Mast Arm	5/6/2020	72	2026	2026
S4001517	4	Single Mast Arm	6/13/2023	36	2026	2026
S4001518	4	Single Mast Arm	6/13/2023	36	2026	2026
S4001521	4	Single Mast Arm	5/7/2020	72	2026	2026
S4001523	4	High Mast	6/15/2023	36	2026	2026
S4001534	4	Single Mast Arm	6/14/2023	36	2026	2026
S4001535	4	Single Mast Arm	6/14/2023	36	2026	2026
S4001536	4	Single Mast Arm	6/14/2023	36	2026	2026
S4001537	4	Single Mast Arm	6/14/2023	36	2026	2026
S4001538	4	Single Mast Arm	6/9/2020	72	2026	2026
S4001539	4	Single Mast Arm	6/9/2020	72	2026	2026
S4001540	4	Single Mast Arm	6/9/2020	72	2026	2026

S4001541	4	Single Mast Arm	6/9/2020	72	2026	2026
S4001542	4	Single Mast Arm	6/9/2020	72	2026	2026
S4001543	4	Single Mast Arm	6/9/2020	72	2026	2026
S4001544	4	Single Mast Arm	6/9/2020	72	2026	2026
S4001549	4	Sign Bridge - Truss	5/18/2023	36	2026	2026
S4001560	4	Single Mast Arm	5/7/2020	72	2026	2026
S4001561	4	Single Mast Arm	5/7/2020	72	2026	2026
S4001562	4	Single Mast Arm	6/12/2020	72	2026	2026
S4001564	4	Single Mast Arm	6/13/2023	36	2026	2026
S4001565	4	Single Mast Arm	5/7/2020	72	2026	2026
S4001566	4	Single Mast Arm	7/22/2020	72	2026	2026
S6001602	6	Sign Bridge - Truss	5/11/2023	36	2026	2026
S6001604	6	Sign Bridge - Truss	5/11/2023	36	2026	2026
S6001612	6	Single Mast Arm	5/12/2020	72	2026	2026
S6001613	6	Single Mast Arm	5/12/2020	72	2026	2026
S6001618	6	Single Mast Arm	5/7/2021	72	2027	2026
S6001620	6	Single Mast Arm	5/10/2023	36	2026	2026
S6001622	6	Sign Bridge - Truss	4/8/2020	72	2026	2026
S6001623	6	Single Mast Arm	5/10/2023	36	2026	2026
S6001624	6	Single Mast Arm	4/9/2020	72	2026	2026
S6001625	6	Single Mast Arm	4/9/2020	72	2026	2026
S6001626	6	Single Mast Arm	4/9/2020	72	2026	2026
S6001627	6	Single Mast Arm	4/9/2020	72	2026	2026
S6001628	6	Single Mast Arm	4/9/2020	72	2026	2026
S6001629	6	Single Mast Arm	4/9/2020	72	2026	2026
S6001630	6	Single Mast Arm	5/10/2023	36	2026	2026
S6001631	6	Sign Bridge - Truss	4/8/2020	72	2026	2026
S6001632	6	Single Mast Arm	5/15/2023	36	2026	2026
S6001633	6	Single Mast Arm	4/9/2020	72	2026	2026
S6001634	6	Single Mast Arm	4/9/2020	72	2026	2026
S6001635	6	Single Mast Arm	4/9/2020	72	2026	2026
S6001640	6	Single Mast Arm	4/9/2020	72	2026	2026
S6001641	6	Single Mast Arm	4/9/2020	72	2026	2026
S6001642	6	Single Mast Arm	4/9/2020	72	2026	2026
S6001643	6	Single Mast Arm	5/16/2023	36	2026	2026
S6001644	6	Single Mast Arm	5/16/2023	36	2026	2026
S6001645	6	Single Mast Arm	5/16/2023	36	2026	2026
S6001646	6	Single Mast Arm	4/10/2020	72	2026	2026
S6001648	6	Single Mast Arm	5/10/2023	36	2026	2026
S6001649	6	Single Mast Arm	4/10/2020	72	2026	2026
S6001650	6	Single Mast Arm	4/10/2020	72	2026	2026
S6001651	6	Single Mast Arm	4/10/2020	72	2026	2026
S6001655	6	Single Mast Arm	4/10/2020	72	2026	2026
S6001656	6	Single Mast Arm	4/10/2020	72	2026	2026
S6001657	6	Single Mast Arm	5/10/2023	36	2026	2026
S6001658	6	Single Mast Arm	4/10/2020	72	2026	2026
S6001659	6	Sign Bridge - Truss	5/10/2023	36	2026	2026

S6001660	6	Single Mast Arm	4/10/2020	72	2026	2026
S6001661	6	Single Mast Arm	4/10/2020	72	2026	2026
S6001662	6	Single Mast Arm	5/11/2023	36	2026	2026
S6001665	6	Single Mast Arm	5/12/2020	72	2026	2026
S6001666	6	Single Mast Arm	5/12/2020	72	2026	2026
S6001667	6	Single Mast Arm	5/13/2020	72	2026	2026
S6001668	6	Single Mast Arm	5/13/2020	72	2026	2026
S6001669	6	Single Mast Arm	5/13/2020	72	2026	2026
S6001670	6	Single Mast Arm	5/13/2020	72	2026	2026
S6001671	6	Sign Bridge - Truss	5/11/2023	36	2026	2026
S6001672	6	Single Mast Arm	5/13/2020	72	2026	2026
S6001673	6	Single Mast Arm	5/13/2020	72	2026	2026
S6001674	6	Single Mast Arm	5/13/2020	72	2026	2026
S6001675	6	Single Mast Arm	5/13/2020	72	2026	2026
S6001676	6	Single Mast Arm	5/13/2020	72	2026	2026
S6001677	6	Single Mast Arm	5/13/2020	72	2026	2026
S6001678	6	Single Mast Arm	5/13/2020	72	2026	2026
S6001679	6	Single Mast Arm	5/13/2020	72	2026	2026
S6001680	6	Sign Bridge - Truss	5/10/2023	36	2026	2026
S6001681	6	Sign Bridge - Truss	5/16/2023	36	2026	2026
S6001682	6	Sign Bridge - Truss	5/10/2023	36	2026	2026
S6001683	6	Single Mast Arm	5/11/2020	72	2026	2026
S6001684	6	Single Mast Arm	5/11/2020	72	2026	2026
S6001686	6	Single Mast Arm	5/11/2020	72	2026	2026
S6001687	6	Single Mast Arm	5/16/2023	36	2026	2026
S6001688	6	Single Mast Arm	5/11/2020	72	2026	2026
S6001689	6	Single Mast Arm	5/11/2020	72	2026	2026
S6001690	6	Single Mast Arm	5/11/2020	72	2026	2026
S6001691	6	Single Mast Arm	5/11/2020	72	2026	2026
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S6001693	6	Single Mast Arm	5/11/2020	72	2026	2026
S6001694	6	Single Mast Arm	5/11/2020	72	2026	2026
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S6001696	6	Single Mast Arm	5/11/2020	72	2026	2026
S6001697	6	Cantilever	5/17/2023	36	2026	2026
S6001698	6	Single Mast Arm	4/6/2020	72	2026	2026
S6001699	6	Single Mast Arm	4/6/2020	72	2026	2026
S6001700	6	Single Mast Arm	4/6/2020	72	2026	2026
S6001701	6	Single Mast Arm	4/6/2020	72	2026	2026
S6001702	6	Cantilever	5/17/2023	36	2026	2026
S6001703	6	Single Mast Arm	4/6/2020	72	2026	2026
S6001704	6	Single Mast Arm	5/17/2023	36	2026	2026
S6001705	6	Single Mast Arm	5/17/2023	36	2026	2026
S6001706	6	Single Mast Arm	5/17/2023	36	2026	2026
S6001707	6	Span	4/6/2020	72	2026	2026
S6001710	6	Single Mast Arm	4/8/2020	72	2026	2026
S6001711	6	Single Mast Arm	4/8/2020	72	2026	2026

S6001712	6	Single Mast Arm	4/8/2020	72	2026	2026
S6001713	6	Single Mast Arm	4/8/2020	72	2026	2026
S6001714	6	Single Mast Arm	4/8/2020	72	2026	2026
S6001715	6	Single Mast Arm	4/8/2020	72	2026	2026
S6001716	6	Cantilever	5/15/2023	36	2026	2026
S6001722	6	Single Mast Arm	4/8/2020	72	2026	2026
S6001723	6	Single Mast Arm	4/8/2020	72	2026	2026
S6001724	6	Single Mast Arm	4/9/2020	72	2026	2026
S6001725	6	Single Mast Arm	4/9/2020	72	2026	2026
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S6001731	6	Single Mast Arm	4/9/2020	72	2026	2026
S6001732	6	Single Mast Arm	4/9/2020	72	2026	2026
S6001733	6	Single Mast Arm	5/10/2023	36	2026	2026
S6001737	6	Single Mast Arm	5/11/2020	72	2026	2026
S6001738	6	Single Mast Arm	5/11/2020	72	2026	2026
S6001740	6	Cantilever	5/16/2023	36	2026	2026
S6001741	6	Single Mast Arm	6/13/2023	36	2026	2026
S6001743	6	Butterfly	6/13/2023	36	2026	2026
S6001744	6	Cantilever	5/16/2023	36	2026	2026
S6001745	6	Cantilever	4/7/2020	72	2026	2026
S6001746	6	Cantilever	5/16/2023	36	2026	2026
S6001747	6	Cantilever	5/16/2023	36	2026	2026
S6001751	6	Single Mast Arm	5/12/2023	36	2026	2026
S6001752	6	Single Mast Arm	5/13/2020	72	2026	2026
S6001753	6	Single Mast Arm	5/13/2020	72	2026	2026
S6001754	6	Span	5/9/2023	36	2026	2026
S6001759	6	Single Mast Arm	6/16/2020	72	2026	2026
S6001760	6	Single Mast Arm	6/16/2020	72	2026	2026
S6001762	6	Single Mast Arm	6/16/2020	72	2026	2026
S6001763	6	Single Mast Arm	6/16/2020	72	2026	2026
S6001764	6	Single Mast Arm	6/16/2020	72	2026	2026
S6001765	6	Single Mast Arm	6/16/2020	72	2026	2026
S6001766	6	Single Mast Arm	6/16/2020	72	2026	2026
S6001767	6	Single Mast Arm	6/16/2020	72	2026	2026
S6001768	6	Single Mast Arm	6/16/2020	72	2026	2026
S6001769	6	Single Mast Arm	6/16/2020	72	2026	2026
S6001770	6	Single Mast Arm	6/16/2020	72	2026	2026
S6001780	6	Cantilever	5/9/2023	36	2026	2026
S6001791	6	Single Mast Arm	5/14/2020	72	2026	2026
S6001792	6	Single Mast Arm	5/11/2023	36	2026	2026
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S6001796	6	Single Mast Arm	5/9/2023	36	2026	2026
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S6001798	6	Single Mast Arm	5/9/2023	36	2026	2026
S6001803	6	Single Mast Arm	5/14/2020	72	2026	2026
S6001804	6	Single Mast Arm	5/14/2020	72	2026	2026
S6001805	6	Single Mast Arm	5/14/2020	72	2026	2026
S6001806	6	Single Mast Arm	5/11/2023	36	2026	2026
S6001807	6	Span	5/12/2023	36	2026	2026
S6001808	6	Single Mast Arm	5/11/2023	36	2026	2026
S6001810	6	Single Mast Arm	5/11/2023	36	2026	2026
S6001811	6	Single Mast Arm	5/11/2023	36	2026	2026
S6001812	6	Cantilever	5/11/2023	36	2026	2026
S6001813	6	Cantilever	5/11/2023	36	2026	2026
S6001822	6	Span	5/17/2023	36	2026	2026
S6001823	6	Span	5/17/2023	36	2026	2026
S6001824	6	Sign Bridge - Truss	5/16/2023	36	2026	2026
S6001825	6	Cantilever	6/15/2020	72	2026	2026
S6001826	6	Cantilever	5/11/2023	36	2026	2026
S6001827	6	Single Mast Arm	5/12/2020	72	2026	2026
S6001828	6	Cantilever	5/12/2023	36	2026	2026
S6001829	6	Single Mast Arm	5/13/2020	72	2026	2026
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S6001831	6	Single Mast Arm	5/13/2020	72	2026	2026
S6001832	6	Single Mast Arm	5/13/2020	72	2026	2026
S6001833	6	Single Mast Arm	5/12/2020	72	2026	2026
S6001834	6	Single Mast Arm	5/12/2020	72	2026	2026
S6001835	6	Single Mast Arm	5/12/2020	72	2026	2026
S6001836	6	Single Mast Arm	5/12/2020	72	2026	2026
S6001837	6	Cantilever	4/7/2020	72	2026	2026
S6001839	6	Single Mast Arm	6/17/2020	72	2026	2026
S6001840	6	Single Mast Arm	6/17/2020	72	2026	2026
S6001841	6	Single Mast Arm	6/17/2020	72	2026	2026
S6001842	6	Single Mast Arm	6/17/2020	72	2026	2026
S6001843	6	Single Mast Arm	6/17/2020	72	2026	2026
S6001844	6	Single Mast Arm	6/17/2020	72	2026	2026
S6001845	6	Single Mast Arm	6/17/2020	72	2026	2026
S6001846	6	Single Mast Arm	5/11/2020	72	2026	2026
S6001847	6	Single Mast Arm	5/14/2020	72	2026	2026
S6001848	6	Single Mast Arm	5/14/2020	72	2026	2026
S6001849	6	Single Mast Arm	5/14/2020	72	2026	2026
S6001850	6	Single Mast Arm	5/14/2020	72	2026	2026
S6001851	6	Single Mast Arm	5/10/2023	36	2026	2026
S6001852	6	Single Mast Arm	5/13/2020	72	2026	2026
S6001853	6	Single Mast Arm	5/13/2020	72	2026	2026
S6001854	6	Single Mast Arm	5/10/2023	36	2026	2026
S6001855	6	Single Mast Arm	5/11/2023	36	2026	2026
S6001856	6	Single Mast Arm	5/14/2020	72	2026	2026

S6001857	6	Single Mast Arm	5/14/2020	72	2026	2026
S6001858	6	Single Mast Arm	5/14/2020	72	2026	2026
S6001860	6	Single Mast Arm	5/12/2020	72	2026	2026
S6001861	6	Single Mast Arm	5/12/2020	72	2026	2026
S6001862	6	Single Mast Arm	5/12/2020	72	2026	2026
S6001863	6	Single Mast Arm	5/12/2020	72	2026	2026
S6001860	6	Single Mast Arm	5/12/2020	72	2026	2026
S6001861	6	Single Mast Arm	5/12/2020	72	2026	2026
S6001862	6	Single Mast Arm	5/12/2020	72	2026	2026
S6001863	6	Single Mast Arm	5/12/2020	72	2026	2026

BRKEY	DISTRICT	DESIGN	INSPDATE	INSPFREQ	ReqNext	SchedNext
S1000001	1	Single Mast Arm	7/13/2021	72	2027	2027
S1000002	1	Single Mast Arm	9/23/2024	36	2027	2027
S1000003	1	Single Mast Arm	9/23/2024	36	2027	2027
S1000004	1	Single Mast Arm	7/13/2021	72	2027	2027
S1000005	1	Cantilever	9/23/2024	36	2027	2027
S1000006	1	Single Mast Arm	7/13/2021	72	2027	2027
S1000011	1	Single Mast Arm	7/14/2021	72	2027	2027
S1000012	1	Single Mast Arm	7/14/2021	72	2027	2027
S1000013	1	Single Mast Arm	7/14/2021	72	2027	2027
S1000018	1	Single Mast Arm	9/24/2024	36	2027	2027
S1000019	1	Single Mast Arm	7/14/2021	72	2027	2027
S1000021	1	Single Mast Arm	7/14/2021	72	2027	2027
S1000023	1	Single Mast Arm	7/14/2021	72	2027	2027
S1000024	1	Single Mast Arm	7/14/2021	72	2027	2027
S1000030	1	Sign Bridge - Truss	9/24/2024	36	2027	2027
S1000031	1	Single Mast Arm	7/13/2021	72	2027	2027
S1000032	1	Single Mast Arm	7/13/2021	72	2027	2027
S1000033	1	Single Mast Arm	9/24/2024	36	2027	2027
S1000034	1	Single Mast Arm	7/16/2021	72	2027	2027
S1000037	1	Sign Bridge - Truss	9/24/2024	36	2027	2027
S1000040	1	Single Mast Arm	9/24/2024	36	2027	2027
S1000042	1	Single Mast Arm	7/14/2021	72	2027	2027
S1000043	1	Single Mast Arm	9/24/2024	36	2027	2027
S1000044	1	Single Mast Arm	7/15/2021	72	2027	2027
S1000045	1	Single Mast Arm	9/24/2024	36	2027	2027
S1000046	1	Single Mast Arm	9/24/2024	36	2027	2027
S1000050	1	Cantilever	9/23/2024	36	2027	2027
S1000051	1	Single Mast Arm	9/23/2024	36	2027	2027
S1000052	1	Single Mast Arm	9/23/2024	36	2027	2027
S1000055	1	Single Mast Arm	9/23/2024	36	2027	2027
S1000056	1	Single Mast Arm	7/15/2021	72	2027	2027
S1000057	1	Single Mast Arm	7/15/2021	72	2027	2027
S1000058	1	Cantilever	9/23/2024	36	2027	2027
S1000086	1	Sign Bridge - Truss	4/9/2021	72	2027	2027
S1000087	1	Single Mast Arm	4/8/2021	72	2027	2027
S1000088	1	Single Mast Arm	4/8/2021	72	2027	2027
S1000092	1	Single Mast Arm	4/9/2021	72	2027	2027
S1000097	1	Single Mast Arm	4/9/2021	72	2027	2027
S1000098	1	Cantilever	10/9/2024	36	2027	2027
S1000099	1	Cantilever	10/9/2024	36	2027	2027
S1000102	1	Single Mast Arm	10/8/2024	36	2027	2027
S1000104	1	Single Mast Arm	4/5/2021	72	2027	2027
S1000105	1	Single Mast Arm	10/8/2024	36	2027	2027
S1000106	1	Single Mast Arm	10/9/2024	36	2027	2027
S1000107	1	Single Mast Arm	8/10/2021	72	2027	2027
S1000108	1	Single Mast Arm	10/9/2024	36	2027	2027

S1000109	1	Single Mast Arm	8/10/2021	72	2027	2027
S1000111	1	Single Mast Arm	7/16/2021	72	2027	2027
S1000112	1	Single Mast Arm	7/16/2021	72	2027	2027
S1000113	1	Single Mast Arm	7/16/2021	72	2027	2027
S1000116	1	Single Mast Arm	10/7/2024	36	2027	2027
S1000118	1	Single Mast Arm	7/16/2021	72	2027	2027
S1000119	1	Cantilever	10/8/2024	36	2027	2027
S1000122	1	Single Mast Arm	10/7/2024	36	2027	2027
S1000126	1	Single Mast Arm	4/5/2021	72	2027	2027
S1000128	1	Single Mast Arm	10/8/2024	36	2027	2027
S1000129	1	Sign Bridge - Truss	4/8/2021	72	2027	2027
S1000130	1	Sign Bridge - Truss	4/8/2021	72	2027	2027
S1000131	1	Single Mast Arm	4/9/2021	72	2027	2027
S1000132	1	Single Mast Arm	4/9/2021	72	2027	2027
S1000135	1	Single Mast Arm	4/8/2021	72	2027	2027
S1000136	1	Single Mast Arm	4/8/2021	72	2027	2027
S1000137	1	Single Mast Arm	4/8/2021	72	2027	2027
S1000139	1	Butterfly	10/9/2024	36	2027	2027
S1000140	1	Sign Bridge - Truss	10/9/2024	36	2027	2027
S1000141	1	Cantilever	8/10/2021	72	2027	2027
S1000143	1	Sign Bridge - Truss	4/7/2021	72	2027	2027
S1000146	1	Sign Bridge - Truss	4/7/2021	72	2027	2027
S1000148	1	Single Mast Arm	4/7/2021	72	2027	2027
S1000149	1	Single Mast Arm	4/7/2021	72	2027	2027
S1000150	1	Single Mast Arm	4/7/2021	72	2027	2027
S1000151	1	Single Mast Arm	4/7/2021	72	2027	2027
S1000152	1	Single Mast Arm	4/7/2021	72	2027	2027
S1000153	1	Single Mast Arm	4/7/2021	72	2027	2027
S1000154	1	Single Mast Arm	4/7/2021	72	2027	2027
S1000155	1	Sign Bridge - Truss	8/13/2021	72	2027	2027
S1000156	1	Single Mast Arm	4/7/2021	72	2027	2027
S1000157	1	Single Mast Arm	4/7/2021	72	2027	2027
S1000158	1	Single Mast Arm	4/7/2021	72	2027	2027
S1000159	1	Single Mast Arm	4/7/2021	72	2027	2027
S1000160	1	Cantilever	4/7/2021	72	2027	2027
S1000161	1	Cantilever	10/10/2024	36	2027	2027
S1000162	1	Cantilever	10/10/2024	36	2027	2027
S1000163	1	Cantilever	4/6/2021	72	2027	2027
S1000164	1	Single Mast Arm	4/6/2021	72	2027	2027
S1000165	1	Single Mast Arm	4/6/2021	72	2027	2027
S1000166	1	Single Mast Arm	4/6/2021	72	2027	2027
S1000167	1	Single Mast Arm	4/6/2021	72	2027	2027
S1000168	1	Single Mast Arm	4/6/2021	72	2027	2027
S1000169	1	Single Mast Arm	4/6/2021	72	2027	2027
S1000171	1	Single Mast Arm	4/6/2021	72	2027	2027
S1000172	1	Single Mast Arm	4/6/2021	72	2027	2027
S1000173	1	Cantilever	10/13/2024	36	2027	2027

S1000180	1	Single Mast Arm	4/8/2021	72	2027	2027
S1000182	1	Sign Bridge - Truss	9/26/2024	36	2027	2027
S1000185	1	Sign Bridge - Truss	9/13/2021	72	2027	2027
S1000189	1	Sign Bridge - Truss	9/25/2024	36	2027	2027
S1000190	1	Sign Bridge - Truss	9/23/2024	36	2027	2027
S1000191	1	Single Mast Arm	4/6/2021	72	2027	2027
S1000192	1	Single Mast Arm	4/6/2021	72	2027	2027
S1000193	1	Single Mast Arm	4/6/2021	72	2027	2027
S1000194	1	Single Mast Arm	4/6/2021	72	2027	2027
S1000195	1	Cantilever	10/13/2024	36	2027	2027
S1000196	1	Cantilever	10/13/2024	36	2027	2027
S1000199	1	Cantilever	9/26/2024	36	2027	2027
S1000277	1	Sign Bridge - Truss	4/6/2021	72	2027	2027
S1000278	1	Single Mast Arm	8/12/2021	72	2027	2027
S1000279	1	Single Mast Arm	8/12/2021	72	2027	2027
S1000280	1	Sign Bridge - Truss	8/12/2021	72	2027	2027
S1000281	1	Sign Bridge - Truss	10/10/2024	36	2027	2027
S1000282	1	Sign Bridge - Truss	4/7/2021	72	2027	2027
S1000283	1	Single Mast Arm	8/12/2021	72	2027	2027
S1000284	1	Sign Bridge - Truss	10/10/2024	36	2027	2027
S1000286	1	Cantilever	10/13/2024	36	2027	2027
S1000287	1	Cantilever	10/10/2024	36	2027	2027
S1000291	1	Cantilever	10/10/2024	36	2027	2027
S1000292	1	Single Mast Arm	8/12/2021	72	2027	2027
S1000293	1	Single Mast Arm	8/12/2021	72	2027	2027
S1000294	1	Single Mast Arm	8/12/2021	72	2027	2027
S1000295	1	Single Mast Arm	8/12/2021	72	2027	2027
S1000296	1	Sign Bridge - Truss	8/12/2021	72	2027	2027
S1000297	1	Sign Bridge - Truss	8/12/2021	72	2027	2027
S1000298	1	Single Mast Arm	8/11/2021	72	2027	2027
S1000299	1	Single Mast Arm	8/11/2021	72	2027	2027
S1000300	1	Single Mast Arm	8/11/2021	72	2027	2027
S1000315	1	Cantilever	10/12/2024	36	2027	2027
S1000316	1	Cantilever	10/12/2024	36	2027	2027
S1000317	1	Cantilever	10/12/2024	36	2027	2027
S1000318	1	Cantilever	10/11/2024	36	2027	2027
S1000321	1	Sign Bridge - Truss	10/11/2024	36	2027	2027
S1000328	1	Cantilever	8/11/2021	72	2027	2027
S1000331	1	Cantilever	8/11/2021	72	2027	2027
S1000339	1	Cantilever	10/10/2024	36	2027	2027
S1000344	1	Cantilever	4/6/2021	72	2027	2027
S1000345	1	Cantilever	4/6/2021	72	2027	2027
S1000348	1	Sign Bridge - Truss	8/12/2021	72	2027	2027
S1000360	1	Butterfly	10/10/2024	36	2027	2027
S1000370	1	Span	10/11/2024	36	2027	2027
S1000371	1	Span	10/11/2024	36	2027	2027
S1000372	1	Span	10/11/2024	36	2027	2027

S1000373	1	Span	10/11/2024	36	2027	2027
S1000374	1	Single Mast Arm	7/16/2021	72	2027	2027
S1000375	1	Single Mast Arm	7/16/2021	72	2027	2027
S1000376	1	Single Mast Arm	7/16/2021	72	2027	2027
S1000377	1	Single Mast Arm	7/16/2021	72	2027	2027
S1000378	1	Single Mast Arm	7/16/2021	72	2027	2027
S1000379	1	Single Mast Arm	7/16/2021	72	2027	2027
S1000380	1	Cantilever	9/26/2024	36	2027	2027
S1000382	1	Sign Bridge - Truss	4/9/2021	72	2027	2027
S1000383	1	Sign Bridge - Truss	4/9/2021	72	2027	2027
S1000385	1	Cantilever	10/9/2024	36	2027	2027
S1000386	1	Sign Bridge - Truss	9/25/2024	36	2027	2027
S1000387	1	Cantilever	8/12/2021	72	2027	2027
S1000388	1	Sign Bridge - Truss	9/14/2021	72	2027	2027
S1000389	1	Cantilever	10/12/2024	36	2027	2027
S1000390	1	Cantilever	10/12/2024	36	2027	2027
S1000391	1	High Mast	10/12/2024	36	2027	2027
S1000393	1	Single Mast Arm	7/15/2021	72	2027	2027
S1000395	1	Single Mast Arm	7/15/2021	72	2027	2027
S1000396	1	Single Mast Arm	7/15/2021	72	2027	2027
S1000397	1	Single Mast Arm	7/13/2021	72	2027	2027
S1000398	1	Single Mast Arm	7/13/2021	72	2027	2027
S1000399	1	Single Mast Arm	7/13/2021	72	2027	2027
S1000400	1	Single Mast Arm	7/13/2021	72	2027	2027
S1000401	1	Single Mast Arm	7/14/2021	72	2027	2027
S1000402	1	Single Mast Arm	7/14/2021	72	2027	2027
S1000403	1	Single Mast Arm	7/14/2021	72	2027	2027
S1000404	1	Single Mast Arm	7/14/2021	72	2027	2027
S1000405	1	Single Mast Arm	7/14/2021	72	2027	2027
S1000406	1	Single Mast Arm	9/24/2024	36	2027	2027
S1000407	1	Single Mast Arm	7/13/2021	72	2027	2027
S1000408	1	Single Mast Arm	7/14/2021	72	2027	2027
S1000409	1	Single Mast Arm	7/14/2021	72	2027	2027
S1000412	1	Span	9/24/2024	36	2027	2027
S1000414	1	Single Mast Arm	7/15/2021	72	2027	2027
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S1000417	1	Single Mast Arm	7/15/2021	72	2027	2027
S1000418	1	Single Mast Arm	7/15/2021	72	2027	2027
S1000419	1	Single Mast Arm	7/15/2021	72	2027	2027
S1000420	1	Butterfly	7/16/2021	72	2027	2027
S1000422	1	Single Mast Arm	4/6/2021	72	2027	2027
S1000423	1	Single Mast Arm	4/6/2021	72	2027	2027
S1000424	1	Single Mast Arm	4/6/2021	72	2027	2027
S1000425	1	Span	4/6/2021	72	2027	2027
S1000427	1	Cantilever	10/13/2024	36	2027	2027
S1000428	1	Single Mast Arm	8/13/2021	72	2027	2027

S1000429	1	Single Mast Arm	8/13/2021	72	2027	2027
S1000430	1	Single Mast Arm	8/13/2021	72	2027	2027
S1000431	1	Single Mast Arm	8/13/2021	72	2027	2027
S1000432	1	Cantilever	8/13/2021	72	2027	2027
S1000433	1	Single Mast Arm	8/13/2021	72	2027	2027
S1000434	1	Sign Bridge - Truss	8/13/2021	72	2027	2027
S1000436	1	Cantilever	8/13/2021	72	2027	2027
S1000437	1	Single Mast Arm	8/13/2021	72	2027	2027
S1000438	1	Sign Bridge - Truss	8/13/2021	72	2027	2027
S1000439	1	Sign Bridge - Truss	9/13/2021	72	2027	2027
S1000440	1	Sign Bridge - Truss	9/14/2021	72	2027	2027
S1000441	1	Single Mast Arm	11/8/2022	72	2028	2027
S1000442	1	Single Mast Arm	11/8/2022	72	2028	2027
S1000443	1	Single Mast Arm	11/8/2022	72	2028	2027
S1000444	1	Single Mast Arm	11/8/2022	72	2028	2027
S2000200	2	Single Mast Arm	9/15/2021	72	2027	2027
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S2000203	2	Single Mast Arm	9/15/2021	72	2027	2027
S2000205	2	Single Mast Arm	9/15/2021	72	2027	2027
S2000206	2	Single Mast Arm	9/15/2021	72	2027	2027
S2000208	2	Single Mast Arm	9/15/2021	72	2027	2027
S2000210	2	Single Mast Arm	6/16/2021	72	2027	2027
S2000211	2	Single Mast Arm	6/16/2021	72	2027	2027
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S2000213	2	Single Mast Arm	6/16/2021	72	2027	2027
S2000214	2	Single Mast Arm	6/16/2021	72	2027	2027
S2000215	2	Single Mast Arm	6/16/2021	72	2027	2027
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S2000220	2	Single Mast Arm	6/16/2021	72	2027	2027
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S2000225	2	Single Mast Arm	10/14/2024	36	2027	2027
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S2000234	2	Single Mast Arm	6/16/2021	72	2027	2027
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S2000238	2	Single Mast Arm	9/15/2021	72	2027	2027
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S2000240	2	Single Mast Arm	10/14/2024	36	2027	2027
S2000243	2	Single Mast Arm	9/16/2021	72	2027	2027
S2000246	2	Single Mast Arm	6/15/2021	72	2027	2027
S2000247	2	Single Mast Arm	6/15/2021	72	2027	2027
S2000253	2	Single Mast Arm	6/15/2021	72	2027	2027
S2000255	2	Single Mast Arm	10/15/2024	36	2027	2027
S2000256	2	Single Mast Arm	6/15/2021	72	2027	2027
S2000257	2	Single Mast Arm	6/15/2021	72	2027	2027
S2000258	2	Single Mast Arm	10/15/2024	36	2027	2027
S2000259	2	Sign Bridge - Truss	6/15/2021	72	2027	2027
S2000261	2	Single Mast Arm	6/15/2021	72	2027	2027
S2000262	2	Butterfly	10/15/2024	36	2027	2027
S2000264	2	Cantilever	10/15/2024	36	2027	2027
S2000273	2	Cantilever	6/14/2021	72	2027	2027
S2000351	2	Single Mast Arm	9/15/2021	72	2027	2027
S2000352	2	Single Mast Arm	10/14/2024	36	2027	2027
S2000353	2	Single Mast Arm	9/15/2021	72	2027	2027
S2000354	2	Single Mast Arm	6/16/2021	72	2027	2027
S2000355	2	Single Mast Arm	10/14/2024	36	2027	2027
S2000356	2	Single Mast Arm	10/14/2024	36	2027	2027
S2000357	2	Single Mast Arm	10/14/2024	36	2027	2027
S2000358	2	Single Mast Arm	9/15/2021	72	2027	2027
S2000359	2	Single Mast Arm	6/16/2021	72	2027	2027
S2000360	2	Single Mast Arm	6/16/2021	72	2027	2027
S2000361	2	Single Mast Arm	6/16/2021	72	2027	2027
S2000362	2	Single Mast Arm	10/15/2024	36	2027	2027
S2000363	2	Single Mast Arm	10/15/2024	36	2027	2027
S2000364	2	Single Mast Arm	6/14/2021	72	2027	2027
S2000365	2	Single Mast Arm	6/14/2021	72	2027	2027
S2000366	2	Single Mast Arm	10/15/2024	36	2027	2027
S2000367	2	Single Mast Arm	6/14/2021	72	2027	2027
S2000368	2	Single Mast Arm	6/14/2021	72	2027	2027
S2000369	2	Single Mast Arm	9/16/2021	72	2027	2027
S2000370	2	Single Mast Arm	9/16/2021	72	2027	2027
S2000371	2	Single Mast Arm	6/16/2021	72	2027	2027
S2000372	2	Single Mast Arm	6/16/2021	72	2027	2027
S2000373	2	Single Mast Arm	44363	72	2027	2027
S2000374	2	Single Mast Arm	44363	72	2027	2027
S2000376	2	Butterfly	44362	72	2027	2027
S2000377	2	Single Mast Arm	44362	72	2027	2027
S2000378	2	Single Mast Arm	44362	72	2027	2027
S2000379	2	Single Mast Arm	44362	72	2027	2027
S2000380	2	Single Mast Arm	44362	72	2027	2027
S2000381	2	Single Mast Arm	44362	72	2027	2027

S2000382	2	Single Mast Arm	44362	72	2027	2027
S2000383	2	Single Mast Arm	44362	72	2027	2027
S2000384	2	Single Mast Arm	44362	72	2027	2027
S2000385	2	Single Mast Arm	44363	72	2027	2027
S3000414	3	Cantilever	44337	72	2027	2027
S3000416	3	Sign Bridge - Truss	45428	36	2027	2027
S3000420	3	Cantilever	44337	72	2027	2027
S3000463	3	Sign Bridge - Truss	44348	72	2027	2027
S3000474	3	Double Mast Arm	45588	36	2027	2027
S3000482	3	Single Mast Arm	44341	72	2027	2027
S3000505	3	Single Mast Arm	45426	36	2027	2027
S3000625	3	Cantilever	45428	36	2027	2027
S3000634	3	Single Mast Arm	45433	36	2027	2027
S3000654	3	Single Mast Arm	44306	72	2027	2027
S3000659	3	Single Mast Arm	45433	36	2027	2027
S3000660	3	Single Mast Arm	44306	72	2027	2027
S3000661	3	Single Mast Arm	44306	72	2027	2027
S3000662	3	Single Mast Arm	44306	72	2027	2027
S3000667	3	Single Mast Arm	44306	72	2027	2027
S3000668	3	Single Mast Arm	44306	72	2027	2027
S3000669	3	Single Mast Arm	44306	72	2027	2027
S3000670	3	Single Mast Arm	44306	72	2027	2027
S3000672	3	Single Mast Arm	44306	72	2027	2027
S3000673	3	Single Mast Arm	45432	36	2027	2027
S3000675	3	Single Mast Arm	45432	36	2027	2027
S3000676	3	Single Mast Arm	44306	72	2027	2027
S3000701	3	Single Mast Arm	44308	72	2027	2027
S3000704	3	Single Mast Arm	45425	36	2027	2027
S3000705	3	Single Mast Arm	45425	36	2027	2027
S3000706	3	Single Mast Arm	45425	36	2027	2027
S3000707	3	Single Mast Arm	45425	36	2027	2027
S3000711	3	Single Mast Arm	44308	72	2027	2027
S3000783	3	Single Mast Arm	45432	36	2027	2027
S3000784	3	Single Mast Arm	44320	72	2027	2027
S3000786	3	Single Mast Arm	44320	72	2027	2027
S3000804	3	Single Mast Arm	44307	72	2027	2027
S3000806	3	Single Mast Arm	44307	72	2027	2027
S3000807	3	Single Mast Arm	44307	72	2027	2027
S3000829	3	Single Mast Arm	44308	72	2027	2027
S3000830	3	Single Mast Arm	44308	72	2027	2027
S3000831	3	Single Mast Arm	44308	72	2027	2027
S3000832	3	Single Mast Arm	44308	72	2027	2027
S3000833	3	Single Mast Arm	44308	72	2027	2027
S3000834	3	Single Mast Arm	44320	72	2027	2027
S3000835	3	Single Mast Arm	44320	72	2027	2027
S3000836	3	Single Mast Arm	44320	72	2027	2027
S3000837	3	Single Mast Arm	44320	72	2027	2027

S3000838	3	Single Mast Arm	44320	72	2027	2027
S3000841	3	Single Mast Arm	44320	72	2027	2027
S3000846	3	Single Mast Arm	44320	72	2027	2027
S3000847	3	Single Mast Arm	44320	72	2027	2027
S3000848	3	Single Mast Arm	44320	72	2027	2027
S3000853	3	Single Mast Arm	44320	72	2027	2027
S3000855	3	Single Mast Arm	44320	72	2027	2027
S3000856	3	Single Mast Arm	44320	72	2027	2027
S3001022	3	Cantilever	45427	36	2027	2027
S3001084	3	Cantilever	45440	36	2027	2027
S3001085	3	Cantilever	45433	36	2027	2027
S3001097	3	Sign Bridge - Truss	44334	72	2027	2027
S3001098	3	Sign Bridge - Truss	44333	72	2027	2027
S3001120	3	High Mast	44337	72	2027	2027
S3001241	3	Cantilever	45427	36	2027	2027
S3001401	3	Single Mast Arm	44307	72	2027	2027
S3001402	3	Single Mast Arm	44307	72	2027	2027
S3001403	3	Single Mast Arm	44307	72	2027	2027
S3001404	3	Single Mast Arm	44307	72	2027	2027
S3001405	3	Single Mast Arm	44307	72	2027	2027
S3001406	3	Single Mast Arm	44307	72	2027	2027
S3001407	3	Single Mast Arm	44307	72	2027	2027
S3001408	3	Single Mast Arm	44307	72	2027	2027
S3001409	3	Single Mast Arm	44333	72	2027	2027
S3001410	3	Single Mast Arm	44333	72	2027	2027
S3001411	3	Single Mast Arm	44333	72	2027	2027
S3001412	3	Single Mast Arm	44333	72	2027	2027
S3001413	3	Single Mast Arm	44333	72	2027	2027
S3001414	3	Single Mast Arm	45432	36	2027	2027
S3001415	3	Single Mast Arm	44334	72	2027	2027
S3001416	3	Single Mast Arm	44348	72	2027	2027
S4001198	4	Single Mast Arm	44321	72	2027	2027
S4001234	4	Single Mast Arm	44322	72	2027	2027
S4001236	4	Single Mast Arm	44322	72	2027	2027
S4001290	4	Single Mast Arm	45545	36	2027	2027
S4001322	4	Span	45547	36	2027	2027
S4001325	4	Double Mast Arm	45582	36	2027	2027
S4001327	4	Single Mast Arm	45582	36	2027	2027
S4001331	4	Single Mast Arm	45582	36	2027	2027
S4001342	4	Single Mast Arm	45582	36	2027	2027
S4001382	4	Single Mast Arm	45547	36	2027	2027
S4001390	4	Single Mast Arm	45582	36	2027	2027
S4001399	4	Single Mast Arm	45518	36	2027	2027
S4001413	4	Single Mast Arm	45519	36	2027	2027
S4001430	4	Single Mast Arm	45520	36	2027	2027
S4001436	4	Span	45520	36	2027	2027
S4001457	4	Span	45519	36	2027	2027

S4001459	4	Span	45519	36	2027	2027
S4001460	4	Span	45519	36	2027	2027
S4001462	4	Span	45519	36	2027	2027
S4001464	4	Span	45519	36	2027	2027
S4001466	4	Span	45519	36	2027	2027
S4001483	4	Single Mast Arm	44322	72	2027	2027
S4001546	4	Sign Bridge - Truss	44322	72	2027	2027
S4001547	4	Sign Bridge - Truss	44322	72	2027	2027
S4001548	4	Sign Bridge - Truss	44323	72	2027	2027
S4001550	4	Sign Bridge - Truss	44322	72	2027	2027
S4001558	4	Sign Bridge - Truss	44322	72	2027	2027
S4001559	4	Sign Bridge - Truss	44322	72	2027	2027

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2025 EDITION



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SECTION 1:

INTRODUCTION

1.1—PURPOSE

This manual should provide inspectors with a basic understanding of structural support types and their components, inspection requirements, and reporting procedures. This manual is intended to augment the FHWA *Guidelines for the Installation, Inspection, Maintenance and Repair of Structural Supports for Highway Signs, Luminaires, and Traffic Signals* (2005) with State specific requirements. This manual governs in cases where requirements differ.

1.2—STRUCTURAL SUPPORT DEFINITION

The Idaho Transportation Department structural support inspection program encompasses structures located on State maintained roadways, on spurs and connectors to the State highway system, structures located within State maintained Port of Entries and rest areas. Unless specifically excluded, any structure capable of supporting signs over the traveled way (including shoulders) that is within the jurisdiction of the Department requires inspection. Inspection of railroad owned crossing structures is not required.

For intersections where multiple structures share a support or base include the inspection information, photos, and quantities for each structure. This will require double counting quantities and defects and including the same photographs for multiple structures. A separate inspection report is required for each direction of travel for those structures spanning across multiple directions and having a median post.

1.3—STRUCTURAL SUPPORT TYPES

Structural Supports include five main groups:

- Sign bridges
- Cantilevers
- Signal mast arms
- Structure-mounted signs
- High mast luminaires

1.3.1—Sign Bridges

The sign bridge group includes multiple-post structures such as overhead steel bridges, dynamic (variable) message signs and signal spans.

1.3.2—Cantilevers

The cantilever group includes single-post structures such as simple span and butterfly span cantilevers and dynamic (variable) message signs. Butterfly span cantilevers are typically installed at a median location with two spans, each serving opposing directions of travel. Cantilevers located behind guard rail and having spans directed away from the traveled way do not require inspection.

1.3.3—Signal Mast Arms

Signal mast arms include single post installations that may or may not have luminaires.

1.3.4—Structure-Mounted Signs

Structure-mounted sign installations are located on bridges or grade separators. Grade separators may be an underpass or overpass structure, including railroad trestles, having signs bolted directly to a girder or parapet or other structural member or having the framework for attaching such a sign(s) over the traveled way (i.e. the bridge acts as the structural support). In the case where a sign bridge, cantilever, signal mast arm, or high mast luminaire is attached to a bridge and goes over the bridge roadway that structural support is assigned by its type and noted that the base attaches to a bridge. No inspection is required of structures without overhead sign support framework or overhead signs bolted directly to the structure over the traveled way.

1.3.5—High Mast luminaires

High Mast luminaires are lighting attached to a truss-type or pole-type tower that provides lighting at heights greater than 55 feet. Poles are typically segmental and luminaires are capable of being lowered for maintenance.

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SECTION 2:

INSPECTION PERSONNEL

2.1—INSPECTOR QUALIFICATIONS

The Inspector is responsible for the examination, identification and reporting of any deterioration, malfunctions or potential hazard associated with the structures inspected. Inspections are performed by a qualified team leader meeting one of the following qualifications and approved by the Bridge Asset Management Engineer (BAME):

- 1) Licensed Professional Engineer.
- 2) Qualified for registration as a Professional Engineer under Idaho law.
- 3) NBIS qualified bridge inspector.

2.2—INSPECTOR RESPONSIBILITIES

The Inspector shall proficiently perform computer data input procedures in a field environment.

The primary responsibilities of the Inspector are to:

- Schedule and prepare each inspection project including safety procedures and briefings.
- Perform field inspections in a professional and safe manner.
- Document all findings and report any critical deficiencies immediately to the appropriate District office and coordinate action on critical structural deficiencies with Consultant and District.
- Record all required structural data, actions and recommendations into the provided database.
- Obtain and provide electronic diagrams and photographs as necessary.

If anchor rod nuts are loose, tighten to a snug tight condition using reasonable effort, note that a bolt was tightened in Inspection Notes. If corrosion or other defects prevent snug tight condition note this as a maintenance recommendation. If components of the structure are buried and require excavation the inspection team can spend up to 30 minutes using common hand tools (i.e. shovel, hammer, broom, etc.). If the excavation requires more intensive work or additional equipment, then the buried structure shall be noted for recommended excavation by ITD as part of scheduled maintenance work. If bolts need to be replaced as part of a maintenance recommendation, please note all information possible for re-ordering purposes.

2.3—DATABASE ADMINISTRATORS RESPONSIBILITIES

The primary responsibilities of the Database Administrator are to:

- Coordinate software training with the Consultant.
- Coordinate technical support of the structural support software with the software vendor.
- Provide Functional Class and ADT for all roadways for all structures.
- Review inspection reports and maintain inspection database.

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SECTION 3:

INSPECTION SAFETY & EQUIPMENT

3.1—ACCESS REQUIREMENTS

Structures are categorized as climbable, partly climbable or not climbable.

Climbable: Tri-chord and four-chord simple-span sign structures and tri-chord and four-chord cantilever sign structures.

Partly Climbable: Two-chord simple-span and cantilever.

Not Climbable: One-chord simple-span and cantilevers and any other types of structures deemed un-climbable by the inspection Team Leader.

3.2—INSPECTION EQUIPMENT

Typical equipment or an inspector should include, but is not limited to, the following items:

- Shovel
- Folding ruler and/or pocket retractable tape
- 100-foot tapes
- 4-foot level
- Wire brush
- Inspection mirror with an extension and swivel head
- White chalk and/or dark-colored keel
- Hammer
- Ice pick or awl
- Wrenches with extensions and sockets
- Screwdrivers
- GPS
- Two-way radios
- Flashlight
- Digital camera
- Electronic distance meter (EDM)
- Ladder
- D-meter
- UT gauge
- Slugging wrenches
- Traffic control signs, cones, barrels
- Plumb bob

3.3—SAFETY

The safety of inspectors and road users is the highest priority. The following safety guidelines are recommended for all inspection personnel:

- All team members shall wear appropriate Personal Protection Equipment (PPE) at all times.
- Traffic control set up is the first action and removal is the last action at the inspection site (including pedestrians).
- Place Sidewalk Closed signs in advance of equipment (if applicable).
- Place all equipment and personnel as far away from road users as possible.
- All inspectors must receive proper training which covers the inspection process, climbing techniques, safety and use of all equipment.

- Do not inspect in hazardous weather or emergency road conditions.
- Use a bucket lift to inspect areas that are difficult to reach by climbing.
- Properly secure all lifting equipment, ladders, and scaffolding to the ground with brakes, blocks, outriggers, etc., prior to leaving the ground.
- Clean oil and grease from boots, ladders, bucket lifts, and scaffolding.
- Always leave one lanyard connected to the structure at all times.
- Visually check and physically test the lanyards, knots, clips and carabiners often.
- Minimize the number of tools carried overhead. Always secure tools in use with chords or clips to avoid dropping them onto traffic.
- Do not put full body weight onto any structural member that appears structurally unsound.

3.4—TRAFFIC CONTROL

Perform traffic control in accordance with the FHWA *Manual on Uniform Traffic Control Devices* (MUTCD), latest edition, as adopted by the State, the Department's *Traffic Manual*, and the Department's *Standard Specifications for Highway Construction*.

The Consultant shall obtain approved traffic control plans, if necessary, from the appropriate District Traffic Engineer and/or local agency prior to beginning the inspection. When required, only District approved traffic control plans are permitted for use. The Consultant shall contact the District Traffic Engineer regarding any changes to a site specific traffic control plan.

All traffic control devices shall conform to the MUTCD and the Department's approved products list. Traffic control devices shall consist of warning signs and cones as a minimum requirement. ITD recommends using impact attenuators behind equipment exposed to potential traffic impacts.

Equipment is not permitted on any portion of the highway right of way nor will any inspection occur until traffic control is in place. Consultant equipment and operations should utilize shoulders, medians and islands whenever possible to reduce the restriction to travel lanes.

Inspection schedules shall minimize traffic flow disruptions as much as possible, or as directed by the District Traffic Engineer or his designee. The District may restrict inspection access to non-peak hours to minimize disruption to traffic.

Consultants shall conform to Section 108.05 (Limitations of Operations) of the Department's *Standard Specifications for Highway Construction* for all inspection work.

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SECTION 4:

INSPECTION PROCEDURES

4.1—GENERAL PROCEDURES

The Inspector shall verify the list and location of structures scheduled for inspection with the Data Administrator. The Data Administrator will provide the Consultant with an electronic database of those structures for inspection and inspection data entry.

The Inspector shall contact the appropriate District Traffic Engineer and the appropriate railroad representative (if applicable) with a schedule of the locations and dates of each inspection. Inspectors shall provide the appropriate District Traffic Engineer a minimum of a fourteen (14) day notice prior to starting work. Approved methods of contact are by letter, e-mail, phone, or in person.

At the time of contact, the Consultant shall discuss and obtain approved traffic control plans and operational requirements from the District. Operational requirements may include restrictions to inspection schedule, location, and/or the method of inspection.

General Structural Inspection Process. The general sequence to be followed:

- Set up traffic control at the inspection site
- Locate structure in database
- Complete structure identification in database
- Take GPS readings from a central point below the entire structure
- Take photos of the base and front of structure
- Set up inspection team at site
- Perform inspection
- Inspect ground-level elements first
- Take photos or create diagrams of any significant structural defects
- Enter inspection notes into database, including photos and diagrams
- Remove inspection team from site
- Remove traffic control from site

The required activities to perform the hands-on inspection will vary by structure type. An element level inspection shall be performed on all foundations, vertical support components, horizontal support components, and structural connections. Visually inspect attachments (signs, sign illumination, signal heads, luminaires and other electronic components) throughout the structure and note any problems in the SITE NOTES.

If inspection of a member is not possible because of debris, vegetation, etc., cleaning is required if the effort involved is not excessive. Excessive effort is that which would require more than 30 minutes for the inspection team to perform. Include a photograph of debris in the inspection file.

If a structural support member is not inspected, the Inspector shall contact the Agreement Administrator or BAME. The final Inspection report shall contain details documenting the reason why inspection did not occur and which member was not inspected.

If by field observation, the Inspector detects any structural deficiency that is sufficiently critical to warrant immediate repair and/or substantial traffic restrictions, the appropriate District Maintenance Engineer and the Agreement Administrator or BAME (if applicable) require immediate notification. The inspector will provide a written notification within forty-eight (48) hours of any verbal notification, which will serve as confirmation of the verbal notification.

Visually inspect all components for surface condition and dissimilar materials (i.e. on splice bolts or other hardware).

Clean foundations and bases of debris, water, and vegetation, if time required to do so is not excessive. Note any undermined or exposed foundations. Removal of debris and vegetation may be required to properly examine the foundation or base. Sound the concrete with a hammer and note any hollow sounds. Note any spalling, corrosion, exposed reinforcement or open cracks. If grout is present, rate its condition based on thickness, deterioration and the presence of corrosion.

Visually inspect all of the anchoring components for surface condition and damage. Note the following:

- If the base plate thickness is less than the anchor rod diameter
- If the shortest distance from the edge of the anchor rod hole to the edge of the base plate is less than the anchor rod diameter
- If the distance between the bottom of the leveling nut to the top of the foundation is greater than 1 anchor rod diameter
- If the anchor rods are misaligned greater than 1:40

Inspect all anchor bolts for corrosion, oversized holes, and misalignment or bending to fit into the base plate hole. Using a hammer, inspect for broken anchor bolts. Verify the presence and adequate size of top nuts and washers or leveling nuts and washers (if no grout pad). Inspect bolts for thread damage, corrosion and gouges. Verify that all nuts are properly seated and snug tight.

Visually inspect all posts or end frames for surface condition, dents or gouges, corrosion and cracks. Verify that drain holes are functioning and that water and debris is not accumulating on or in the post. Inspect the deflection of the post using a level and record the direction and amount of tilt (accounting for taper), if significantly misaligned. Inspect the post or end frame to base plate connection, and look for cracks and corrosion. Inspect all welded and non-welded seams, flange plates and connections for cracks and corrosion. Verify the presence and connection of end caps. Inspect all splices for oversized holes and the presence and proper size of bolts and nuts. Inspect bolts for thread damage, corrosion and gouges. Verify that all nuts are properly seated.

Visually inspect mast arm and, if present, luminaire arm connections to posts, and look for cracks and corrosion. Visually inspect bolts for thread damage and gouges, and verify that all nuts are properly seated. Inspect pedestrian controls and electrical access plates for corrosion, damage and proper attachment.

Visually inspect all horizontal truss components on sign bridges and cantilevers. Inspect all welded and bolted connections for fatigue cracks and corrosion. Visually inspect bolts for thread damage and gouges, and verify that all bolts and nuts are properly sized, and properly seated. Note any sagging or misalignment of the horizontal support or any bent, broken, buckled, water-filled, split or missing elements. Inspect walkway and lighting components for damage. Note any uneven or missing grating, cracked support brackets, missing or corroded U-bolts or connection bolts, handrails, luminaire mounting arms, damaged or exposed wiring, etc.

Visually inspect all sign support framework components attached to girders and parapets of grade separators. Inspect all welded and bolted connections for fatigue cracks and corrosion. Visually inspect bolts for thread damage and gouges, and verify that all bolts and nuts are properly sized, and seated. Note any sagging or misalignment of the horizontal support or any bent, broken, buckled, water-filled, split or missing elements. Inspect walkway and lighting components for damage. Note any uneven or missing grating, cracked support brackets, missing or corroded U-bolts or connection bolts, handrails, luminaire mounting arms, damaged or exposed wiring, etc.

Visually inspect the U-bolt, frames and other devices used to connect any attachments (signs, sign illumination, electrical fixtures) to sign bridges, cantilevers and support framework attached to bridges (grade separators). Report any missing, damaged or loose hardware, including hand holes or caps at the ends of chords. Inspect signs and their attachments that are fastened directly to concrete girders and/or parapets. Inspect the concrete structure (girder and/or parapet) where signs or sign support framework attaches for damage, cracks, spalling, improper connection, corrosion, etc.

4.2—SIGN BRIDGES AND CANTILEVER STRUCTURES

The sign bridge group includes dual-post structures such as sign bridges, dynamic (variable) message signs, and signal spans.

The cantilever group includes single-post structures such as simple and butterfly cantilevers and dynamic (variable) message signs. Cantilevers located behind the guard rail with spans directed away from the traveled way do not require inspection.

Some conservatively designed low risk horizontal sign structure members over traffic may be visually inspected from the ground or roadway surface without climbing or access equipment with the approval of the BAME. For these instances, vertical pole supports and horizontal support connections will require hands on inspection.

For all sign bridge and cantilever structures, the following components require inspection and assignment of an element rating as applicable:

- Base/Foundation
- Erosion and undermining
- Grout pad(s)
- Anchor bolts
- Anchor nuts and washers
- Bolt/nut protection
- Support Pole/End Frames
- Base plate(s)
- Column(s)
- Column deflection
- Column bracing
- Column splice(s)
- Column welds
- Column protection
- Chords
- Walkway
- Support chord connections
- Bracket(s) to vertical support
- Top chord(s)
- Bottom chord(s)
- Splice flange(s)/bolts
- Camber
- Verticals
- Diagonals
- Horizontals
- Welds
- Surface protection
- Additional components
- Sign connections
- Sign illumination
- Sign illumination connection(s)
- Signal head connection(s)
- Luminaire connection
- Electrical access plate
- Vibration Dampener

4.3—SIGNAL MAST ARM STRUCTURES

Signal mast arms include single post installations that may or may not have luminaires. Signal mast arms located within ports of entry do not require inspection unless they are located on ramps leading into an adjacent rest area.

The following components require inspection and assignment of an element rating as applicable:

- Base/Foundation
- Erosion and undermining
- Grout pad
- Base plate
- Anchor bolts
- Anchor nuts and washers
- Bolt/nut protection
- Support pole
- Pole lean
- Splice plates/bolts
- Electrical access plate
- Pedestrian control(s)
- Surface protection
- Signal arm
- Arm connection
- Luminaire arm

4.4—STRUCTURE-MOUNTED SIGN INSTALLATIONS

Structure-mounted sign installations are located on bridges or grade separators. Grade separators may be an underpass or overpass structures, including railroad trestles, having signs bolted directly to a girder, parapet or other structural member, or having the framework for attaching such a sign(s) over the traveled way.

The following components require inspection and assignment of an element rating as applicable:

- Framework connection to girder/parapet
- Framework
- Horizontals
- Verticals
- Diagonals
- Welds
- Connections
- Surface protection
- Sign connections
- Illumination
- Light(s)
- Connections

4.5—HIGH MAST LUMINAIRES

High Mast Luminaires are lighting attached to a truss-type or pole-type tower that provides lighting at heights greater than 55 feet. Poles are typically segmental and luminaires are capable of being lowered. Lowering of luminaires is not required for inspection. Visual inspections of the pole and luminaires should include equipment, such as a bucket truck or other aerial equipment. When collapse of a portion of the pole could affect traffic including pedestrian traffic (Figure 1) the inspector's should get as close as practical to inspect pole seams for potential cracks or damage. Where collapse of a high mast structure would result in only the top of the structure or no portion of the structure reaching the road or side walk, a visual inspection of the pole and normal base inspection is acceptable (Figure 2).

Figure 1

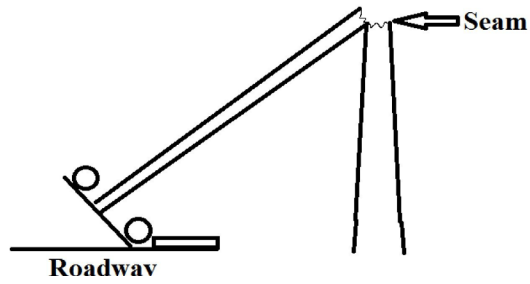
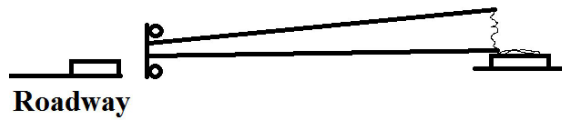


Figure 2



The following components require inspection and assignment of an element rating as applicable:

- Base/Foundation
- Erosion and undermining
- Grout pad(s)
- Base plate(s)
- Anchor bolts
- Anchor nuts and washers
- Bolt/nut protection
- Support Pole
- Column(s)
- Column plumbness
- Column bracing
- Column splice(s)
- Column welds
- Column protection
- Luminaire connection
- Electrical access plate
- Miscellaneous component connections

SECTION 5:

Inspection Reporting Procedures

5.1—OVERHEAD SIGN STRUCTURE SOFTWARE

Structural supports have similar components, even though they may have different configurations. All data is reported and maintained in the AASHTO BrM software. The Department Database Administrator will provide to the Consultant an electronic database of the structures to be inspected and technical support for the BrM software and inspection reporting.

Inspection data will consist of either selection from a drop-down menu or manual data entry. Don't use symbols % “ () ‘ or commas.

After entry of the information for the structure is complete and the pictures have been linked in Inspection Reports a .pdf of the inspection report should be created, signed and stored in the district Inspection reports folder and linked in BrM. Final pdf with the electronic signature shall use the following naming convention: StructureKey_InspReport_MOYR.pdf (example S1000001_InspReport_0316)

5.2—INVENTORY ITEMS

The inventory items that are collected and recorded for each structural support are found in Appendix A.

The substructure field in BrM is used to describe the overall condition of the Structural Support using the descriptive codes in the following table:

Code	Description
N	NOT APPLICABLE
9	EXCELLENT CONDITION – No defects.
8	VERY GOOD CONDITION – No problems noted, but with some insignificant defects.
7	GOOD CONDITION – Isolated minor defects.
6	SATISFACTORY CONDITION – Extensive minor defects.
5	FAIR CONDITION – Isolated advanced defects. All members are structurally sound.
4	POOR CONDITION – Extensive advanced defects with or without isolated major defects. More frequent monitoring or corrective actions, such as repairs or restricting loads, are typically needed to address major defects.
3	SERIOUS CONDITION – Major defects that typically require more frequent monitoring or corrective actions such as repairs or restricting loads.
2	CRITICAL CONDITION – Major defects that typically require more frequent monitoring until corrective actions are completed.
1	“IMMINENT” FAILURE CONDITION – Major defects. The road is closed until corrective actions are completed.
0	FAILED CONDITION – Road is closed due to structure condition. Condition is beyond repair and replacement is needed to restore service.

The NOTES section of BrM should include the following titles: SITE NOTES, GENERAL NOTES, and WORK ACCOMPLISHED.

SITE NOTES: are notes to describe site conditions such as erosion around a foundation, damage to an adjacent guardrail, etc. If no site notes are needed write "None" in this section.

GENERAL NOTES are notes to ITD or any other general note that doesn't have a place anywhere else. If no notes are

needed write "None" in this section.

WORK ACCOMPLISHED is used to describe any work done to the structure or site since previous inspections. If no work accomplished write "None" in this section.

5.3—ELEMENTS

An element rating system was developed to provide an evaluation of each structural element see Appendix B for element descriptions.

Elements are rated individually or as a group. Group elements are rated based on the lowest rating of an individual component within the group. As a general rule, for rating purposes the inspector should consider whether the structural integrity has been reduced, whether the deficiency is located on a failure-critical element, or whether the deficiency creates an imminent safety hazard to road users. Elements that are not visible such as buried base plates and anchor rods are not included in the elements; they are noted in the SITE NOTES.

If impact damage element 7000 is used then use a defect element associated with the impact damage. Example: 7000 Impact damage 1 foot to 706 steel end support column, defect element 9720 Dent 1 foot. Impact damage 7000 is the only element that allows doubling up on quantities but doesn't apply it against the parent element 706. It may look like 2 feet but it's only 1 foot. One foot would be in condition state 2 for element 706, 1 foot for element 7000 in state 2 and 1 foot for element 9720 dent in state 2.

Coatings do not need elements or quantities. The coating type is noted in the description note field on the Inventory/Design tab. Elements 740-746 are not considered part of a safety inspection and are not included.

5.4—PHOTOGRAPHS

Inspection reports for each sign structure location shall include photographs. Digital format is required for all photographs. The minimum size for a photo is 1536 x 1024 pixels with a 72 dpi resolution. The photo size should not be reduced. A minimum of two (2) photographs are required of the entire structure taken at each inspection. Pictures shall include the front view of the structure, and the base of the structure. Photos or diagrams of any significant structural defects are required at the time of inspection. Attach all photos and diagrams to each sign structure inspection report.

The required file naming convention for photos is: StructureKey_DATE_# (example S1000001_0316_01) and stored in the appropriate district folder. In BrM to add "Bridge Photos":

- 1) Go to Inspection/multimedia tab.
- 2) At the top of the box select the Context drop down box and change from Inspection to Bridge.
- 3) Link a photo.
- 4) Select Inspection Photo from the drop down and also click the report flag.
- 5) Do not add any text or notes.

5.5—INSPECTION FREQUENCY

The inspection frequency is based on the overall condition as detailed in the table below unless the Inspection Team Leader recommends a different frequency and the BAME concurs. Changes to inspection frequency are documented in the GENERAL NOTES section including reason and modified inspection frequency.

OHS Inspection Frequencies		
Frequency	Signals, Sign Bridge	Cantilever, HML
72 months	6 or higher	7 or higher
36 months	5 or 4	6-4
12 months	2 or 3	2 or 3

Inspections are completed within the calendar year scheduled unless approved by the Bridge Asset Management

Engineer and documented in the GENERAL NOTES section.

The OHS inspections shall include all applicable data attributes as follows:

Name	Type	Field Length
Bridge Key	Identifier: starts with S, followed by District Number & sequential number	8
Agency Bridge ID	Same as Bridge Key	
NBI Structure No.	Same as Bridge Key	
NBI Bridge ID(if applicable)	NBI Bridge Key	5
NBI Structure(112)	Always code Too Short	Dropdown
FIPS State(001A)	Always code 16 Idaho	Dropdown
FHWA Region(001B)	Always code Region 10-Portland	Dropdown
District(002)		Dropdown
County(003)		Dropdown
Facility(007)	Route	18
Location(009)	General location of OHS (right now some locations are stored in Traffic Control Information due to length constraints, this data needs to be condensed and fit into this field and DELETED from the Traffic Control Information field)	25
Year Built(027)		4
Latitude(016)	Degrees minutes seconds	6
Longitude(017)	Degrees minutes seconds	7
Number of Main Spans(045)		3
Main Spans Material(043A)		Dropdown
Main Spans Design(043B)	Use OHS designated designs	Dropdown
Maximum Span Length(048)	Code 00.00 for HML	7
Structure Length	Code 00.00 for HML	8
Vertical Reference Clearance	Will always be H Hwy beneath	Dropdown
Min Vertical Under Clearance	Minimum Vertical Clearance under OHS, code 99.9 for HML	5,3
Minimum Lateral Clearance Right (55B)	Distance from face of column to edge of travel way ¹	3
Minimum Lateral Clearance Left (56)	Distance from face of column to edge of travel way ¹ (if applicable)	3
Structure Units	S Ancillary Structure	Dropdown
Traffic Control Information		2000
Overall Condition(059)		Dropdown
Inspector		Dropdown
Inspection Date(090)		Date
Inspection Frequency(091)	As defined by table in Section 5.5	2
Next Inspection		Date
Primary Type	OHS	Dropdown
Types of Inspections Performed	NBI and Element	Check box
Next Inspector		Dropdown
Bridge Group	OHS	Dropdown
Elements		

IDAHO MANUAL FOR OVERHEAD SIGN STRUCTURE INSPECTION - APPENDIX A INVENTORY DESCRIPTIONS

Inspection Notes	General inspection notes	2000
Roadway/Position/Prefix(005A)	Will always be One Route Under	Dropdown
Road/Route Name	Route	30
Kind Hwy(Rt Prefix)(005B)		Dropdown
Design Level of Service(005C)		Dropdown
Route Number(005D)	State Route with leading zeroes	5
Directional Suffix(005E)	Use cardinal direction	Dropdown
Functional Classification(026)		Dropdown
Milepost(011)	Milepost out to thousandth	7
Lanes(28A)	Lanes directly under OHS	2
Total ADT(029)		8
Percent Trucks(109)		2
ADT Year(030)		4
Under Record Milepost	Same as Milepost(011)	7
Segment Code	ITD LRS code	6
Work Candidate ID	Assigned by program	
Work Candidate Structure Unit	Ancillary Structures/Type S	Dropdown
Work Candidate Action		Dropdown
Work Candidate Priority		Dropdown
Work Candidate Date	Leave as inspection date	Date
Work Candidate Date Completed		Date
Work Candidate Target Year	Leave as default	4
Work Candidate Work	State Forces	Dropdown
Work Candidate Status		Dropdown
Work Candidate Notes	General Work Candidates Notes	2000
Equipment Required		Dropdown
Administrative Jurisdiction	Owner of OHS	Dropdown
Drawing #		5
Project Key #		6

¹ Travel Way is defined as the most constrictive normal boundary for traffic, typically the inside edge of the fog line. If no fog line is present it should be the inside edge of curb, or guardrail. If none of these things are present use the edge of pavement. Leave blank if not applicable.

ELEMENT DESCRIPTIONS

Table of Contents:

- Element 701 – Reinforced Concrete Foundation
- Element 702 – Steel Anchor Rods
- Element 703 – Aluminum Anchor Rods
- Element 704 – Steel Base Plate
- Element 705 – Aluminum Base Plate
- Element 706 – Steel End Support Column
- Element 707 – Aluminum End Support Column
- Element 708 – Concrete End Support Column
- Element 709 – Timber End Support Column
- Element 710 – Steel End Support Frame
- Element 711 – Aluminum End Support Frame
- Element 712 – Steel High Mast Light or Luminaire Support Column
- Element 713 – Aluminum High Mast Light or Luminaire Support Column
- Element 714 – Concrete High Mast Light or Luminaire Support Column
- Element 715 – Fiberglass High Mast Light or Luminaire Support Column
- Element 716 – Welded or Slip Joint Splice Connection for Steel End Support or HML
- Element 717 – Bolted, Welded or Slip Joint Splice Connection for Aluminum End Support or HML
- Element 718 – End Support-to-Chord Connection
- Element 719 – Steel Single Chord Span
- Element 720 – Aluminum Single Chord Span
- Element 721 – Steel Truss Span
- Element 722 – Aluminum Truss Span
- Element 723 – Span Wire Assembly
- Element 726 – Bolted, Welded or Slip Joint Splice Connection for Steel Span
- Element 727 – Bolted, Welded or Slip Joint Splice Connection for Aluminum Span

Note: Element numbers are based on an AASHTO Draft manual (2014). Defects are mostly borrowed from bridge, we cannot change element descriptions in BrM so the descriptions here may vary to provide more detail for OHS inspection.



Ancillary Structures Element Coding Guide

Element: 701 Name: Reinforced Concrete Foundation Unit: Each		Description: Element defines all reinforced concrete foundations. Grout pads are not included.		
Defect	Condition State 1	Condition State 2	Condition State 3	Condition State 4
Delamination/ Spall/ Patched Area (1080)	None.	Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound.	Spall greater than 1 in. deep or greater than 6 in. diameter. Patched area that is unsound or showing distress. Does not warrant structural review.	The condition warrants a structural review to determine the effect on strength or serviceability of the element or structure; OR a structural review has been completed and the defects impact strength or serviceability of the element or structure.
Exposed Rebar (1090)	None.	Present without measurable section loss.	Present with measurable section loss, but does not warrant structural review.	
Efflorescence/Rust Staining (1120)	None.	Surface white without build-up or leaching without rust staining.	Heavy build-up with rust staining.	
Cracking (RC and Other) (1130)	None or insignificant cracking.	Moderate cracking.	Severe cracking not requiring a structural review.	
Abrasion(PSC/RC) (1190)	No abrasion or wearing.	Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete.	Coarse aggregate is loose or has popped out of the concrete matrix due to abrasion or wear.	
Settlement (4000)	None.	Exists within tolerable limits of has been arrested with no observed structural distress.	Exceeds tolerable limits but does not warrant a structural review.	
Scour (6000)	None.	Exists within tolerable limits of has been arrested with effective countermeasures.	Exceeds tolerable limits but is less than the critical limits determined by a scour evaluation and does not warrant a structural review.	
Damage (7000)	Not applicable.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 2 under the appropriate material defect entry.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 3 under the appropriate material defect entry.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 4 under the appropriate material defect entry.
Commentary: None.				



Ancillary Structures Element Coding Guide

Element: 702 Name: Steel Anchor Rods Unit: Each		Description: Element defines all steel anchor rods extending from foundation, and includes washers and nuts. Inclusive of weathering steel.		
Defect	Condition State 1	Condition State 2	Condition State 3	Condition State 4
Corrosion (1000)	None.	Freckled Rust. Corrosion of the steel has initiated.	Section loss is evident or pack rust is present but does not warrant structural review.	The condition warrants a structural review to determine the effect on strength or serviceability of the element or structure; OR a structural review has been completed and the defects impact strength or serviceability of the element or structure.
Cracking (1010)	None.	Crack that has self-arrested or has been arrested with effective arrest holes, doubling plates, or similar.	Identified crack exists that is not arrested but does not warrant structural review.	
Connection (1020)	Connection is in place and functioning as intended.	Loose fasteners or pack rust without distortion is present but the connection is in place and functioning as intended.	Missing bolts, rivets, broken welds, fasteners or pack rust with distortion but does not warrant a structural review.	
Commentary: None.				



Ancillary Structures Element Coding Guide

Element: 703 Name: Aluminum Anchor Rods Unit: Each		Description: Element defines all aluminum anchor rods extending from foundation, and includes washers and nuts.		
Defect	Condition State 1	Condition State 2	Condition State 3	Condition State 4
Corrosion (1000)	None.	Freckled Rust. Corrosion of the aluminum has initiated.	Section loss is evident or pack rust is present but does not warrant structural review.	The condition warrants a structural review to determine the effect on strength or serviceability of the element or structure; OR a structural review has been completed and the defects impact strength or serviceability of the element or structure.
Cracking (1010)	None.	Crack that has self-arrested or has been arrested with effective arrest holes, doubling plates, or similar.	Identified crack exists that is not arrested but does not warrant structural review.	
Connection (1020)	Connection is in place and functioning as intended.	Loose fasteners or pack rust without distortion is present but the connection is in place and functioning as intended.	Missing bolts, rivets, broken welds, fasteners or pack rust with distortion but does not warrant a structural review.	
Commentary: None.				



Ancillary Structures Element Coding Guide

Element: 704 Name: Steel Base Plate Unit: Each		Description: Element defines all steel base plates connecting the columns to the anchor rods, includes all gusset plates, their welds, and the weld from the column to the base plate. Inclusive of weathering steel.		
Defect	Condition State 1	Condition State 2	Condition State 3	Condition State 4
Corrosion (1000)	None.	Freckled Rust. Corrosion of the steel has initiated.	Section loss is evident or pack rust is present but does not warrant structural review.	The condition warrants a structural review to determine the effect on strength or serviceability of the element or structure; OR a structural review has been completed and the defects impact strength or serviceability of the element or structure.
Cracking (1010)	None.	Crack that has self-arrested or has been arrested with effective arrest holes, doubling plates, or similar.	Identified crack exists that is not arrested but does not warrant structural review.	
Connection (1020)	Connection is in place and functioning as intended.	Loose fasteners or pack rust without distortion is present but the connection is in place and functioning as intended.	Missing bolts, rivets, broken welds, fasteners or pack rust with distortion but does not warrant a structural review.	
Loss of Bearing Area (2240)	None.	Less than 10%.	10% or more but does not warrant structural review.	
Debris Impaction (2350)	No debris or loose debris not effecting the structure.	Debris caught in assembly causing minor corrosion or loss of galvanization.	Debris caught effecting stability of structure or causing widespread corrosion and section loss.	
Commentary: None.				



Ancillary Structures Element Coding Guide

Element: 705 Name: Aluminum Base Plate Unit: Each		Description: Element defines all aluminum base plates connecting the columns to the anchor rods, includes all gusset plates, their welds, and the weld from the column to the base plate.		
Defect	Condition State 1	Condition State 2	Condition State 3	Condition State 4
Corrosion (1000)	None.	Freckled Rust. Corrosion of the aluminum has initiated.	Section loss is evident or pack rust is present but does not warrant structural review.	The condition warrants a structural review to determine the effect on strength or serviceability of the element or structure; OR a structural review has been completed and the defects impact strength or serviceability of the element or structure.
Cracking (1010)	None.	Crack that has self-arrested or has been arrested with effective arrest holes, doubling plates, or similar.	Identified crack exists that is not arrested but does not warrant structural review.	
Connection (1020)	Connection is in place and functioning as intended.	Loose fasteners or pack rust without distortion is present but the connection is in place and functioning as intended.	Missing bolts, rivets, broken welds, fasteners or pack rust with distortion but does not warrant a structural review.	
Loss of Bearing Area (2240)	None.	Less than 10%.	10% or more but does not warrant structural review.	
Debris Impaction (2350)	No debris or loose debris not effecting the structure.	Debris caught in assembly causing minor corrosion or loss of galvanization.	Debris caught effecting stability of structure or causing widespread corrosion and section loss.	
Commentary: None.				



Ancillary Structures Element Coding Guide

Element: 706 Name: Steel End Support Column Unit: Feet		Description: Element defines all steel end support columns. Inclusive of weathering steel.		
Defect	Condition State 1	Condition State 2	Condition State 3	Condition State 4
Corrosion (1000)	None.	Freckled Rust. Corrosion of the steel has initiated.	Section loss is evident or pack rust is present but does not warrant structural review.	The condition warrants a structural review to determine the effect on strength or serviceability of the element or structure; OR a structural review has been completed and the defects impact strength or serviceability of the element or structure.
Cracking (1010)	None.	Crack that has self-arrested or has been arrested with effective arrest holes, doubling plates, or similar.	Identified crack exists that is not arrested but does not warrant structural review.	
Connection (1020)	Connection is in place and functioning as intended.	Loose fasteners or pack rust without distortion is present but the connection is in place and functioning as intended.	Missing bolts, rivets, broken welds, fasteners or pack rust with distortion but does not warrant a structural review.	
Distortion (1900)	None.	Distortion not requiring mitigation or mitigated distortion.	Distortion that requires mitigation that has not been addressed but does not warrant structural review.	
Damage (7000)	Not applicable.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 2 under the appropriate material defect entry.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 3 under the appropriate material defect entry.	
Lean (9700)	None.	Horizontal Measurement / Vertical Measurement < 1%.	1% <= Horizontal Measurement / Vertical Measurement < 2%.	Horizontal Measurement / Vertical Measurement > 2%.
Dent (9720)	Not applicable.	Horizontal / Circumference < 5%.	5% <= Horizontal / Circumference < 10%.	Horizontal / Circumference >= 10%.
Commentary: None.				



Ancillary Structures Element Coding Guide

Element: 707 Name: Aluminum End Support Column Unit: Feet		Description: Element defines all aluminum end support columns		
Defect	Condition State 1	Condition State 2	Condition State 3	Condition State 4
Corrosion (1000)	None.	Freckled Rust. Corrosion of the aluminum has initiated.	Section loss is evident or pack rust is present but does not warrant structural review.	The condition warrants a structural review to determine the effect on strength or serviceability of the element or structure; OR a structural review has been completed and the defects impact strength or serviceability of the element or structure.
Cracking (1010)	None.	Crack that has self-arrested or has been arrested with effective arrest holes, doubling plates, or similar.	Identified crack exists that is not arrested but does not warrant structural review.	
Connection (1020)	Connection is in place and functioning as intended.	Loose fasteners or pack rust without distortion is present but the connection is in place and functioning as intended.	Missing bolts, rivets, broken welds, fasteners or pack rust with distortion but does not warrant a structural review.	
Distortion (1900)	None.	Distortion not requiring mitigation or mitigated distortion.	Distortion that requires mitigation that has not been addressed but does not warrant structural review.	
Damage (7000)	Not applicable.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 2 under the appropriate material defect entry.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 3 under the appropriate material defect entry.	
Lean (9700)	None.	Horizontal Measurement / Vertical Measurement < 1%.	1% <= Horizontal Measurement / Vertical Measurement < 2%.	Horizontal Measurement / Vertical Measurement > 2%.
Dent (9720)	Not applicable.	Horizontal / Circumference < 5%.	5% <= Horizontal / Circumference < 10%.	Horizontal / Circumference >= 10%.
Commentary: None				



Ancillary Structures Element Coding Guide

Element: 708 Name: Concrete End Support Column Unit: Feet		Description: Element defines all concrete end support columns		
Defect	Condition State 1	Condition State 2	Condition State 3	Condition State 4
Delamination/ Spall/ Patched Area (1080)	None.	Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound.	Spall greater than 1 in. deep or greater than 6 in. diameter. Patched area that is unsound or showing distress. Does not warrant structural review.	The condition warrants a structural review to determine the effect on strength or serviceability of the element or structure; OR a structural review has been completed and the defects impact strength or serviceability of the element or structure.
Exposed Rebar (1090)	None.	Present without measurable section loss.	Present with measurable section loss, but does not warrant structural review.	
Efflorescence/Rust Staining (1120)	None.	Surface white without build-up or leaching without rust staining.	Heavy build-up with rust staining.	
Cracking (RC and Other) (1130)	Width less than 0.012 in. or spacing greater than 3.0 ft.	Width 0.012–0.05 in. or spacing of 1.0–3.0 ft.	Width greater than 0.05 in. or spacing of less than 1 ft.	
Abrasion(PSC/RC) (1190)	No abrasion or wearing.	Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete.	Coarse aggregate is loose or has popped out of the concrete matrix due to abrasion or wear.	
Damage (7000)	Not applicable.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 2 under the appropriate material defect entry.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 3 under the appropriate material defect entry.	
Lean (9700)	None.	Horizontal Measurement / Vertical Measurement < 1%.	1% <= Horizontal Measurement / Vertical Measurement < 2%.	
Commentary: None				



Ancillary Structures Element Coding Guide

Element: 709 Name: Timber End Support Column Unit: Feet		Description: Element defines all timber end support columns		
Defect	Condition State 1	Condition State 2	Condition State 3	Condition State 4
Decay/Section Loss (1140)	None.	Affects less than 10% of the member section.	Affects 10% or more of the member but does not warrant structural review.	The condition warrants a structural review to determine the effect on strength or serviceability of the element or structure; OR a structural review has been completed and the defects impact strength or serviceability of the element or structure.
Check/Shake (1150)	Surface penetration less than 5% of the member thickness regardless of location.	Penetrates 5% - 50% of the thickness of the member and not in a tension zone.	Penetrates more than 50% of the thickness of the member or more than 5% of the member thickness in a tension zone. Does not warrant structural review.	
Crack (Timber) (1160)	None.	Crack that has been arrested through effective measures.	Identified crack exists that is not arrested, but does not require structural review.	
Split/Delamination (Timber) (1170)	None.	Length less than the member depth or arrested with effective actions taken to mitigate.	Length equal to or greater than the member depth, but does not require structural review.	
Abrasion (1180)	None or no measurable section loss.	Section loss less than 10% of the member thickness.	Section loss 10% or more of the member thickness but does not warrant structural review.	
Damage (7000)	Not applicable.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 2 under the appropriate material defect entry.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 3 under the appropriate material defect entry.	
Lean (9700)	None.	Horizontal Measurement / Vertical Measurement < 1%.	1% <= Horizontal Measurement / Vertical Measurement < 2%.	
Dent (9720)	Not applicable.	Horizontal / Circumference < 5%.	5% <= Horizontal / Circumference < 10%.	Horizontal / Circumference >= 10%.
Commentary: None				



Ancillary Structures Element Coding Guide

Element: 710 Name: Steel End Support Frame Unit: Feet		Description: Element defines all steel end support frames, including the uprights, horizontals and diagonals. Inclusive of weathering steel.		
Defect	Condition State 1	Condition State 2	Condition State 3	Condition State 4
Corrosion (1000)	None.	Freckled Rust. Corrosion of the steel has initiated.	Section loss is evident or pack rust is present but does not warrant structural review.	The condition warrants a structural review to determine the effect on strength or serviceability of the element or structure; OR a structural review has been completed and the defects impact strength or serviceability of the element or structure.
Cracking (1010)	None.	Crack that has self-arrested or has been arrested with effective arrest holes, doubling plates, or similar.	Identified crack exists that is not arrested but does not warrant structural review.	
Connection (1020)	Connection is in place and functioning as intended.	Loose fasteners or pack rust without distortion is present but the connection is in place and functioning as intended.	Missing bolts, rivets, broken welds, fasteners or pack rust with distortion but does not warrant a structural review.	
Distortion (1900)	None.	Distortion not requiring mitigation or mitigated distortion.	Distortion that requires mitigation that has not been addressed but does not warrant structural review.	
Damage (7000)	Not applicable.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 2 under the appropriate material defect entry.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 3 under the appropriate material defect entry.	
Lean (9700)	None.	Horizontal Measurement / Vertical Measurement < 1%.	1% <= Horizontal Measurement / Vertical Measurement < 2%.	Horizontal Measurement / Vertical Measurement > 2%.
Dent (9720)	Not applicable.	Horizontal / Circumference < 5%.	5% <= Horizontal / Circumference < 10%.	Horizontal / Circumference >= 10%.
Commentary: None.				



Ancillary Structures Element Coding Guide

Element: 711 Name: Aluminum End Support Frame Unit: Feet		Description: Element defines all aluminum end support frames, including the uprights, horizontals and diagonals.		
Defect	Condition State 1	Condition State 2	Condition State 3	Condition State 4
Corrosion (1000)	None.	Freckled Rust. Corrosion of the aluminum has initiated.	Section loss is evident or pack rust is present but does not warrant structural review.	The condition warrants a structural review to determine the effect on strength or serviceability of the element or structure; OR a structural review has been completed and the defects impact strength or serviceability of the element or structure.
Cracking (1010)	None.	Crack that has self-arrested or has been arrested with effective arrest holes, doubling plates, or similar.	Identified crack exists that is not arrested but does not warrant structural review.	
Connection (1020)	Connection is in place and functioning as intended.	Loose fasteners or pack rust without distortion is present but the connection is in place and functioning as intended.	Missing bolts, rivets, broken welds, fasteners or pack rust with distortion but does not warrant a structural review.	
Distortion (1900)	None.	Distortion not requiring mitigation or mitigated distortion.	Distortion that requires mitigation that has not been addressed but does not warrant structural review.	
Damage (7000)	Not applicable.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 2 under the appropriate material defect entry.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 3 under the appropriate material defect entry.	
Lean (9700)	None.	Horizontal Measurement / Vertical Measurement < 1%.	1% <= Horizontal Measurement / Vertical Measurement < 2%.	Horizontal Measurement / Vertical Measurement > 2%.
Dent (9720)	Not applicable.	Horizontal / Circumference < 5%.	5% <= Horizontal / Circumference < 10%.	Horizontal / Circumference >= 10%.
Commentary: None.				



Ancillary Structures Element Coding Guide

Element: 712 Name: Steel High Mast Light or Luminaire Support Column Unit: Feet		Description: Element defines all steel high mast light or luminaire support columns. Inclusive of weathering steel.		
Defect	Condition State 1	Condition State 2	Condition State 3	Condition State 4
Corrosion (1000)	None.	Freckled Rust. Corrosion of the steel has initiated.	Section loss is evident or pack rust is present but does not warrant structural review.	The condition warrants a structural review to determine the effect on strength or serviceability of the element or structure; OR a structural review has been completed and the defects impact strength or serviceability of the element or structure.
Cracking (1010)	None.	Crack that has self-arrested or has been arrested with effective arrest holes, doubling plates, or similar.	Identified crack exists that is not arrested but does not warrant structural review.	
Connection (1020)	Connection is in place and functioning as intended.	Loose fasteners or pack rust without distortion is present but the connection is in place and functioning as intended.	Missing bolts, rivets, broken welds, fasteners or pack rust with distortion but does not warrant a structural review.	
Distortion (1900)	None.	Distortion not requiring mitigation or mitigated distortion.	Distortion that requires mitigation that has not been addressed but does not warrant structural review.	
Damage (7000)	Not applicable.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 2 under the appropriate material defect entry.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 3 under the appropriate material defect entry.	
Lean (9700)	None.	Horizontal Measurement / Vertical Measurement < 1%.	1% <= Horizontal Measurement / Vertical Measurement < 2%.	Horizontal Measurement / Vertical Measurement > 2%.
Dent (9720)	Not applicable.	Horizontal / Circumference < 5%.	5% <= Horizontal / Circumference < 10%.	Horizontal / Circumference >= 10%.
Commentary: None.				



Ancillary Structures Element Coding Guide

Element: 713 Name: Aluminum High Mast Light or Luminaire Support Column Unit: Feet		Description: Element defines all aluminum high mast light or luminaire support columns.		
Defect	Condition State 1	Condition State 2	Condition State 3	Condition State 4
Corrosion (1000)	None.	Freckled Rust. Corrosion of the aluminum has initiated.	Section loss is evident or pack rust is present but does not warrant structural review.	The condition warrants a structural review to determine the effect on strength or serviceability of the element or structure; OR a structural review has been completed and the defects impact strength or serviceability of the element or structure.
Cracking (1010)	None.	Crack that has self-arrested or has been arrested with effective arrest holes, doubling plates, or similar.	Identified crack exists that is not arrested but does not warrant structural review.	
Connection (1020)	Connection is in place and functioning as intended.	Loose fasteners or pack rust without distortion is present but the connection is in place and functioning as intended.	Missing bolts, rivets, broken welds, fasteners or pack rust with distortion but does not warrant a structural review.	
Distortion (1900)	None.	Distortion not requiring mitigation or mitigated distortion.	Distortion that requires mitigation that has not been addressed but does not warrant structural review.	
Damage (7000)	Not applicable.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 2 under the appropriate material defect entry.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 3 under the appropriate material defect entry.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 4 under the appropriate material defect entry.
Lean (9700)	None.	Horizontal Measurement / Vertical Measurement < 1%.	1% <= Horizontal Measurement / Vertical Measurement < 2%.	Horizontal Measurement / Vertical Measurement > 2%.
Dent (9720)	Not applicable.	Horizontal / Circumference < 5%.	5% <= Horizontal / Circumference < 10%.	Horizontal / Circumference >= 10%.
Commentary: None.				



Ancillary Structures Element Coding Guide

Element: 714 Name: Concrete High Mast Light or Luminaire Support Column Unit: Feet		Description: Element defines all concrete high mast light or luminaire support columns		
Defect	Condition State 1	Condition State 2	Condition State 3	Condition State 4
Delamination/ Spall/ Patched Area (1080)	None.	Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound.	Spall greater than 1 in. deep or greater than 6 in. diameter. Patched area that is unsound or showing distress. Does not warrant structural review.	The condition warrants a structural review to determine the effect on strength or serviceability of the element or structure; OR a structural review has been completed and the defects impact strength or serviceability of the element or structure.
Exposed Rebar (1090)	None.	Present without measurable section loss.	Present with measurable section loss, but does not warrant structural review.	
Efflorescence/Rust Staining (1120)	None.	Surface white without build-up or leaching without rust staining.	Heavy build-up with rust staining.	
Cracking (RC and Other) (1130)	Width less than 0.012 in. or spacing greater than 3.0 ft.	Width 0.012–0.05 in. or spacing of 1.0–3.0 ft.	Width greater than 0.05 in. or spacing of less than 1 ft.	
Abrasion(PSC/RC) (1190)	No abrasion or wearing.	Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete.	Coarse aggregate is loose or has popped out of the concrete matrix due to abrasion or wear.	
Damage (7000)	Not applicable.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 2 under the appropriate material defect entry.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 3 under the appropriate material defect entry.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 4 under the appropriate material defect entry.
Lean (9700)	None.	Horizontal Measurement / Vertical Measurement < 1%.	1% <= Horizontal Measurement / Vertical Measurement < 2%.	Horizontal Measurement / Vertical Measurement > 2%.
Dent (9720)	Not applicable.	Horizontal / Circumference < 5%.	5% <= Horizontal / Circumference < 10%.	Horizontal / Circumference >= 10%.
Commentary: None				



Ancillary Structures Element Coding Guide

Element: 715 Name: Fiberglass High Mast Light or Luminaire Support Column Unit: Feet		Description: Element defines all fiberglass high mast light or luminaire support columns		
Defect	Condition State 1	Condition State 2	Condition State 3	Condition State 4
Cracking (1010)	None.	Crack that has self-arrested or has been arrested with effective arrest holes, doubling plates, or similar.	Identified crack exists that is not arrested but does not warrant structural review.	The condition warrants a structural review to determine the effect on strength or serviceability of the element or structure; OR a structural review has been completed and the defects impact strength or serviceability of the element or structure.
Deterioration (Other) (1220)	None.	Initiated breakdown or deterioration.	Significant deterioration or breakdown, but does not warrant structural review.	
Damage (7000)	Not applicable.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 2 under the appropriate material defect entry.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 3 under the appropriate material defect entry.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 4 under the appropriate material defect entry.
Lean (9700)	None.	Horizontal Measurement / Vertical Measurement < 1%.	1% <= Horizontal Measurement / Vertical Measurement < 2%.	Horizontal Measurement / Vertical Measurement > 2%.
Delaminations (Fiberglass) (9720)	None.	Surface of the fiberglass may have some small blisters and/or minor deformations. Sounding of the surface does not reveal any voids.	The surface of the fiberglass has missing resin but the fabric material is intact. The fiberglass is not peeling in sheets. Sounding of the surface does not reveal any voids. There are no cracks in the surface where resin is missing.	The surface of the fiberglass has missing resin, missing fabric and the section loss will reduce the structural capacity of the element. The sounding of the surface reveals that there are voids and adhesion has been lost and/or cracks are present in the areas where the fiberglass is peeling in sheets.
Chalking (Fiberglass) (9740)	None.	Surface dulling	Loss of pigment.	Loss of section.
Commentary: None				



Ancillary Structures Element Coding Guide

Element: 716 Name: Welded or Slip Joint Splice Connection for Steel End Support or HML Unit: Each		Description: Element defines all steel splice plates (and bolts), welded, slip fit or bolted connections for splices located in steel end supports (or frames) or high mast light or luminaire supports. Inclusive of weathering steel.		
Defect	Condition State 1	Condition State 2	Condition State 3	Condition State 4
Corrosion (1000)	None.	Freckled Rust. Corrosion of the steel has initiated.	Section loss is evident or pack rust is present but does not warrant structural review.	The condition warrants a structural review to determine the effect on strength or serviceability of the element or structure; OR a structural review has been completed and the defects impact strength or serviceability of the element or structure.
Cracking (1010)	None.	Crack that has self-arrested or has been arrested with effective arrest holes, doubling plates, or similar.	Identified crack exists that is not arrested but does not warrant structural review.	
Connection (1020)	Connection is in place and functioning as intended.	Loose fasteners or pack rust without distortion is present but the connection is in place and functioning as intended.	Missing bolts, rivets, broken welds, fasteners or pack rust with distortion but does not warrant a structural review.	
Distortion (1900)	None.	Distortion not requiring mitigation or mitigated distortion.	Distortion that requires mitigation that has not been addressed but does not warrant structural review.	
Alignment (connections) (9710)	None.	Less than 40:1.	Greater than 40:1 but not failed.	

Commentary:

Describe what type of connection in element notes. One connection includes all chords on truss, for example if a trichord truss has 2 end saupports on each chord the quantity should be 2, not 6.



Ancillary Structures Element Coding Guide

Element: 717 Name: Welded or Slip Joint Splice Connection for Aluminum End Support or HML Unit: Each		Description: Element defines all aluminum splice plates (and bolts), welded, slip fit or bolted connections for splices located in steel end supports (or frames) or high mast light or luminaire supports.		
Defect	Condition State 1	Condition State 2	Condition State 3	Condition State 4
Corrosion (1000)	None.	Freckled Rust. Corrosion of the steel has initiated.	Section loss is evident or pack rust is present but does not warrant structural review.	The condition warrants a structural review to determine the effect on strength or serviceability of the element or structure; OR a structural review has been completed and the defects impact strength or serviceability of the element or structure.
Cracking (1010)	None.	Crack that has self-arrested or has been arrested with effective arrest holes, doubling plates, or similar.	Identified crack exists that is not arrested but does not warrant structural review.	
Connection (1020)	Connection is in place and functioning as intended.	Loose fasteners or pack rust without distortion is present but the connection is in place and functioning as intended.	Missing bolts, rivets, broken welds, fasteners or pack rust with distortion but does not warrant a structural review.	
Distortion (1900)	None.	Distortion not requiring mitigation or mitigated distortion.	Distortion that requires mitigation that has not been addressed but does not warrant structural review.	
Alignment (connections) (9710)	None.	Less than 40:1.	Greater than 40:1 but not failed.	

Commentary:

Describe what type of connection in element notes. One connection includes all chords on truss, for example if a trichord truss has 2 end supports on each chord the quantity should be 2, not 6.



Ancillary Structures Element Coding Guide

Element: 718 Name: End Support-to-Chord Connection Unit: Each		Description: Element defines all plates, bolts and welds connecting support columns to chords. Inclusive of weathering steel.		
Defect	Condition State 1	Condition State 2	Condition State 3	Condition State 4
Corrosion (1000)	None.	Freckled Rust. Corrosion of the steel has initiated.	Section loss is evident or pack rust is present but does not warrant structural review.	The condition warrants a structural review to determine the effect on strength or serviceability of the element or structure; OR a structural review has been completed and the defects impact strength or serviceability of the element or structure.
Cracking (1010)	None.	Crack that has self-arrested or has been arrested with effective arrest holes, doubling plates, or similar.	Identified crack exists that is not arrested but does not warrant structural review.	
Connection (1020)	Connection is in place and functioning as intended.	Loose fasteners or pack rust without distortion is present but the connection is in place and functioning as intended.	Missing bolts, rivets, broken welds, fasteners or pack rust with distortion but does not warrant a structural review.	
Alignment (connections) (9710)	None.	Less than 40:1.	Greater than 40:1 but not failed.	
Commentary: One connection includes all chords on truss, for example if a trichord truss has 2 end supports on each chord the quantity should be 2, not 6.				



Ancillary Structures Element Coding Guide

Element: 719 Name: Steel Single Chord Span Unit: Feet	Description: Element defines all steel spans comprised of single chords (mast arm). Inclusive of weathering steel.			
Defect	Condition State 1	Condition State 2	Condition State 3	Condition State 4
Corrosion (1000)	None.	Freckled Rust. Corrosion of the steel has initiated.	Section loss is evident or pack rust is present but does not warrant structural review.	The condition warrants a structural review to determine the effect on strength or serviceability of the element or structure; OR a structural review has been completed and the defects impact strength or serviceability of the element or structure.
Cracking (1010)	None.	Crack that has self-arrested or has been arrested with effective arrest holes, doubling plates, or similar.	Identified crack exists that is not arrested but does not warrant structural review.	
Connection (1020)	Connection is in place and functioning as intended.	Loose fasteners or pack rust without distortion is present but the connection is in place and functioning as intended.	Missing bolts, rivets, broken welds, fasteners or pack rust with distortion but does not warrant a structural review.	
Distortion (1900)	None.	Distortion not requiring mitigation or mitigated distortion.	Distortion that requires mitigation that has not been addressed but does not warrant structural review.	
Damage (7000)	Not applicable.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 2 under the appropriate material defect entry.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 3 under the appropriate material defect entry.	
Lean (9700)	None.	Horizontal Measurement / Vertical Measurement < 1%.	1% <= Horizontal Measurement / Vertical Measurement < 2%.	Horizontal Measurement / Vertical Measurement > 2%.
Dent (9720)	Not applicable.	Horizontal / Circumference < 5%.	5% <= Horizontal / Circumference < 10%.	Horizontal / Circumference >= 10%.
Commentary: The quantity shall be horizontal arm span. For chords (or braced cantilevers) that have a vertical component (curved arm), the measured quantity shall be horizontal, not along the curved arm.				



Ancillary Structures Element Coding Guide

Element: 720 Name: Aluminum Single Chord Span Unit: Feet		Description: Element defines all aluminum spans comprised of single chords (mast arm) or braced cantilever (trombone-type) luminaire or signal support arms		
Defect	Condition State 1	Condition State 2	Condition State 3	Condition State 4
Corrosion (1000)	None.	Freckled Rust. Corrosion of the aluminum has initiated.	Section loss is evident or pack rust is present but does not warrant structural review.	The condition warrants a structural review to determine the effect on strength or serviceability of the element or structure; OR a structural review has been completed and the defects impact strength or serviceability of the element or structure.
Cracking (1010)	None.	Crack that has self-arrested or has been arrested with effective arrest holes, doubling plates, or similar.	Identified crack exists that is not arrested but does not warrant structural review.	
Connection (1020)	Connection is in place and functioning as intended.	Loose fasteners or pack rust without distortion is present but the connection is in place and functioning as intended.	Missing bolts, rivets, broken welds, fasteners or pack rust with distortion but does not warrant a structural review.	
Distortion (1900)	None.	Distortion not requiring mitigation or mitigated distortion.	Distortion that requires mitigation that has not been addressed but does not warrant structural review.	
Damage (7000)	Not applicable.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 2 under the appropriate material defect entry.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 3 under the appropriate material defect entry.	
Lean (9700)	None.	Horizontal Measurement / Vertical Measurement < 1%.	1% <= Horizontal Measurement / Vertical Measurement < 2%.	Horizontal Measurement / Vertical Measurement > 2%.
Dent (9720)	Not applicable.	Horizontal / Circumference < 5%.	5% <= Horizontal / Circumference < 10%.	Horizontal / Circumference >= 10%.
Commentary: The quantity shall be horizontal arm span. For chords (or braced cantilevers) that have a vertical component (curved arm), the measured quantity shall be horizontal, not along the curved arm.				



Ancillary Structures Element Coding Guide

Element: 721 Name: Steel Truss Span Unit: Feet		Description: Element defines all steel spans comprised of multiple chords with or without trussing. Inclusive of weathering steel.		
Defect	Condition State 1	Condition State 2	Condition State 3	Condition State 4
Corrosion (1000)	None.	Freckled Rust. Corrosion of the steel has initiated.	Section loss is evident or pack rust is present but does not warrant structural review.	The condition warrants a structural review to determine the effect on strength or serviceability of the element or structure; OR a structural review has been completed and the defects impact strength or serviceability of the element or structure.
Cracking (1010)	None.	Crack that has self-arrested or has been arrested with effective arrest holes, doubling plates, or similar.	Identified crack exists that is not arrested but does not warrant structural review.	
Connection (1020)	Connection is in place and functioning as intended.	Loose fasteners or pack rust without distortion is present but the connection is in place and functioning as intended.	Missing bolts, rivets, broken welds, fasteners or pack rust with distortion but does not warrant a structural review.	
Distortion (1900)	None.	Distortion not requiring mitigation or mitigated distortion.	Distortion that requires mitigation that has not been addressed but does not warrant structural review.	
Damage (7000)	Not applicable.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 2 under the appropriate material defect entry.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 3 under the appropriate material defect entry.	
Lean (9700)	None.	Horizontal Measurement / Vertical Measurement < 1%.	1% <= Horizontal Measurement / Vertical Measurement < 2%.	Horizontal Measurement / Vertical Measurement > 2%.
Dent (9720)	Not applicable.	Horizontal / Circumference < 5%.	5% <= Horizontal / Circumference < 10%.	Horizontal / Circumference >= 10%.
Commentary: Element shall not include braced cantilevers (trombone-type) that are common for luminaire support spans. Measure along truss inclusive of all chords, diagonals, vertical and horizontal members.				



Ancillary Structures Element Coding Guide

Element: 722 Name: Aluminum Truss Span Unit: Feet		Description: Element defines all aluminum spans comprised of multiple chords with or without trussing.		
Defect	Condition State 1	Condition State 2	Condition State 3	Condition State 4
Corrosion (1000)	None.	Freckled Rust. Corrosion of the aluminum has initiated.	Section loss is evident or pack rust is present but does not warrant structural review.	The condition warrants a structural review to determine the effect on strength or serviceability of the element or structure; OR a structural review has been completed and the defects impact strength or serviceability of the element or structure.
Cracking (1010)	None.	Crack that has self-arrested or has been arrested with effective arrest holes, doubling plates, or similar.	Identified crack exists that is not arrested but does not warrant structural review.	
Connection (1020)	Connection is in place and functioning as intended.	Loose fasteners or pack rust without distortion is present but the connection is in place and functioning as intended.	Missing bolts, rivets, broken welds, fasteners or pack rust with distortion but does not warrant a structural review.	
Distortion (1900)	None.	Distortion not requiring mitigation or mitigated distortion.	Distortion that requires mitigation that has not been addressed but does not warrant structural review.	
Damage (7000)	Not applicable.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 2 under the appropriate material defect entry.	The element has impact damage. The specific damage caused by the impact has been captured in condition state 3 under the appropriate material defect entry.	
Lean (9700)	None.	Horizontal Measurement / Vertical Measurement < 1%.	1% <= Horizontal Measurement / Vertical Measurement < 2%.	Horizontal Measurement / Vertical Measurement > 2%.
Dent (9720)	Not applicable.	Horizontal / Circumference < 5%.	5% <= Horizontal / Circumference < 10%.	Horizontal / Circumference >= 10%.
Commentary: This element shall not include braced cantilevers (trombone-type) that are common for luminaire support spans. Measure along truss inclusive of all chords, diagonals, vertical and horizontal members.				



Ancillary Structures Element Coding Guide

Element: 723 Name: Span Wire Assembly Unit: Feet		Description: Element defines all span wires and connections to other span wires and to supports.		
Defect	Condition State 1	Condition State 2	Condition State 3	Condition State 4
Corrosion (1000)	None.	Freckled Rust. Corrosion of the steel has initiated.	Section loss is evident or pack rust is present but does not warrant structural review.	The condition warrants a structural review to determine the effect on strength or serviceability of the element or structure; OR a structural review has been completed and the defects impact strength or serviceability of the element or structure.
Cracking (1010)	None.	Crack that has self-arrested or has been arrested with effective arrest holes, doubling plates, or similar.	Identified crack exists that is not arrested but does not warrant structural review.	
Connection (1020)	Connection is in place and functioning as intended.	Loose fasteners or pack rust without distortion is present but the connection is in place and functioning as intended.	Missing bolts, rivets, broken welds, fasteners or pack rust with distortion but does not warrant a structural review.	
Sag (9730)	None.	Minor.	Moderate.	
Commentary: This element shall not include support columns, signs, or signal attachments.				



Ancillary Structures Element Coding Guide

Element: 726 Name: Bolted, Welded, or Slip Joint Splice Connection for Steel Span Unit: Each	Description: Element defines all steel splice plates (and bolts), welds, or slip-fit connections for splices located in steel spans or luminaire arms. Inclusive of weathering steel			
Defect	Condition State 1	Condition State 2	Condition State 3	Condition State 4
Corrosion (1000)	None.	Freckled Rust. Corrosion of the steel has initiated.	Section loss is evident or pack rust is present but does not warrant structural review.	The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge.
Cracking (1010)	None.	Crack that has self-arrested or has been arrested with effective arrest holes, doubling plates, or similar.	Identified crack exists that is not arrested but does not warrant structural review.	
Connection (1020)	Connection is in place and functioning as intended.	Loose fasteners or pack rust without distortion is present but the connection is in place and functioning as intended.	Missing bolts, rivets, broken welds, fasteners or pack rust with distortion but does not warrant a structural review.	
Alignment (connections) (9710)	None.	Less than 40:1.	Greater than 40:1 but not failed.	
Commentary: One connection includes all chords on a truss, for example, if a trichord truss has 2 splices on each chord the quantity should be 2 not 6. Describe what type of connection in element notes (Bolted, Slip Joint, etc.).				



Ancillary Structures Element Coding Guide

Element: 727 Name: Bolted, Welded, or Slip Joint Splice Connection for aluminum Span Unit: Each		Description: Element defines all aluminum splice plates (and bolts), welds, or slip-fit connections for splices located in aluminum spans or luminaire arms.		
Defect	Condition State 1	Condition State 2	Condition State 3	Condition State 4
Corrosion (1000)	None.	Freckled Rust. Corrosion of the aluminum has initiated.	Section loss is evident or pack rust is present but does not warrant structural review.	The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge.
Cracking (1010)	None.	Crack that has self-arrested or has been arrested with effective arrest holes, doubling plates, or similar.	Identified crack exists that is not arrested but does not warrant structural review.	
Connection (1020)	Connection is in place and functioning as intended.	Loose fasteners or pack rust without distortion is present but the connection is in place and functioning as intended.	Missing bolts, rivets, broken welds, fasteners or pack rust with distortion but does not warrant a structural review.	
Alignment (connections) (9710)	None.	Less than 40:1.	Greater than 40:1 but not failed.	
Commentary: One connection includes all chords on a truss, for example, if a trichord truss has 2 splices on each chord the quantity should be 2 not 6. Describe what type of connection in element notes (Bolted, Slip Joint, etc.).				