

BUREAU of BRIDGES

SPANNING

CONNECTING

Michigan Ancillary Assets Enhancements

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SAFELY

EFFICIENTLY

Current FDS List

- ◆ 1B - Bridge List Screen (Map w/ Conditional Colors)
- ◆ 3 - User Profile and User Certifications
- ◆ 5 - Multiple Use Dashboards
- ◆ 6 - Controls for Bridge Header
- ◆ 7 - MDOT Custom Controls
- ◆ 8 - Inspection Type Screen
- ◆ 9 - Parallel Inspections
- ◆ 10 - MiLogin
- ◆ 11a - Request for Action Screen
- ◆ 11b - Request for Action Screen Dashboard
- ◆ 12 - Comments Control with Username and Date Stamp
- ◆ 13 - Ancillary Structures
- ◆ 14 - My Assignment Dashboard
- ◆ 15 - Inspection Previous Field Value and Card Controls
- ◆ 16 - Navigation
- ◆ 17 - Load Rating Module
- ◆ 18 - Multimedia Screen Improvements
- ◆ 20 - Reporting Features
- ◆ 22 - Scour Plan of Action
- ◆ 23 - Assign Jurisdiction
- ◆ 25 - Damage Inspection
- ◆ 26 - Quality Control Inspection
- ◆ 27 - Audit Log
- ◆ 30 - ProjectWise & Security Scan Tool



Current FDS Core List

◆ BrM 6.6

- ◆ 3 - User Profile and User Certifications
- ◆ 11a - Request for Action Screen
- ◆ 12 - Comments Control with Username and Date Stamp
- ◆ 18 - Multimedia Screen Improvements

◆ BrM 7+

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- ◆ 16 - Navigation

◆ BrM 6.7

- ◆ 5 - Multiple Use Dashboards
- ◆ 14 - My Assignment Dashboard
- ◆ 13 - Ancillary Structures

- ◆ 17 - Load Rating Module
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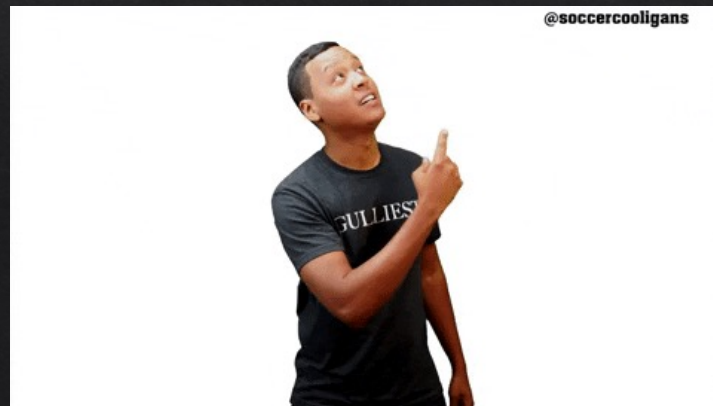
13 - Ancillary Structures (Core 6.7)

- ◇ Sign Cantilever
- ◇ Sign Truss
- ◇ Communication Tower
- ◇ Lattice Tower
- ◇ Lighting Tower
- ◇ Noise Wall
- ◇ Retaining Wall
- ◇ Spun Concrete Pole
- ◇ Steel Strain Pole
- ◇ Wood Pull
- ◇ Culverts <10'
- ◇ Frangible/Non-Frangible Lights
- ◇ Embedded Poles
- ◇ Mast Arms




13 - Ancillary Structures (Core – 6.7)

- ◆ Dashboards
- ◆ Work Candidates
- ◆ Request for Action
- ◆ Layouts/Filters across assets
- ◆ Multimedia
- ◆ Reports



Managing Asset Types

USER, PONTIS Admin > General Config > Manage Asset Types



- BRIDGES
- INSPECTION
- REPORTS
- TUNNELS
- ADMIN
- SECURITY
- GENERAL CONFIG
- PARAMETERS
- OPTIONS
- EXPORT OPTIONS
- DATA DICT.
- CHECKED OUT BRIDGES
- LOGGING
- NAVIGATION SECURITY
- VISUAL FORM EDITOR
- PAGE EXPORT
- EQUATION EDITOR
- SET EDITOR

Asset Type

Select an Asset Type to edit.

Type: Dams Add Delete

Name: Dams

Table Name: DAMS

Parent Type: --Select an Asset--

Edit Landing Page: Dam Inventory

RFA Landing Page: Dams Requests For Action

Status: Valid

Asset Statuses

Select an Asset Status to edit.

Status: --Select a Status-- Add Delete

Name:

Order:

Visible:

Role Name **Visible** **Read Only**

No Status Selected.

Asset Definition **Asset Components**

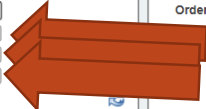
Add, modify or remove data items that make up an asset type. Every asset type must have one field marked as an 'Identification Column'. This is used to identify new assets when they are created. The 'Identification Column' must be a non-nullable varchar or nvarchar at least 2 characters wide.

Field Name	Identification Column	Latitude Column	Longitude Column	Asset Component	Data Type	Width	Decimal Places	Allow Null	Metric/English	Field Code	Default Value	Short Desc
COUNTY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	nvarchar	3		<input checked="" type="checkbox"/>				
ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	nvarchar	5		<input type="checkbox"/>				
LATITUDE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	None	numeric	11	8	<input checked="" type="checkbox"/>				
LONGITUDE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None	numeric	11	8	<input checked="" type="checkbox"/>				

Add Field









Field Name	Latitude Column	Longitude Column	Asset Component	Data Type	Width	Decimal Places	Allow Null	Metric/English	Field Code	Default Value	Short Desc	Long Desc
Add	<input type="checkbox"/>	<input type="checkbox"/>	None				<input type="checkbox"/>					



Save Generate Scripts



Ancillary Asset Security

USER, PONTIS Admin > Security > Ancillary Asset Permissions

Permission	Description	Roles	
CUSTOM_ASSET - Create/Copy	Gives a role the permission to create/copy CUSTOM_ASSET via the listing page.	• Admin • Advanced	
CUSTOM_ASSET - Delete	Gives a role the permission to delete CUSTOM_ASSET via the listing page.	• Admin • Advanced	
CUSTOM_ASSET - Edit	Gives a role the permission to edit CUSTOM_ASSET via the listing page.	• Admin • Advanced	
Dams - Create/Copy	Gives a role the permission to create/copy Dams via the listing page.	• Admin • Advanced	
Dams - Delete	Gives a role the permission to delete Dams via the listing page.	• Admin • Advanced	
Dams - Edit	Gives a role the permission to edit Dams via the listing page.	• Admin • Advanced	
Sign - Create/Copy	Gives a role the permission to create/copy Sign via the listing page.	• Admin • Advanced	
Sign - Delete	Gives a role the permission to delete Sign via the listing page.	• Admin • Advanced	



Asset Element Definition

USER, PONTIS

Admin > Ancillary Assets > Asset Element Definitions

BrM Bridge Management AASHTO

BRIDGES
INSPECTION
REPORTS
TUNNELS
ADMIN
SECURITY
GENERAL CONFIG
MAPPING
MODELING CONFIG
ANCILLARY ASSETS
ASSET ELEMENT DEFINITIONS
ASSET ELEMENT-CHILD LINKING
GATEWAY
ANALYSIS
PROJECTS
PROGRAMS

Elements

Ancillary Asset Type: Tunnels

Search [] [] Export [] Add New []

ID	Short Name	FHWA	Prot Sys / Wear Surf	Defect	Active	
10000	Steel Tunnel Liner	T	F	F	T	[] []
10001	Cast-in-Place Conc Tunnel Liner	T	F	F	T	[] []
10002	Precast Concrete Tunnel Liner	T	F	F	T	[] []
10003	Shotcrete Tunnel Liner	T	F	F	T	[] []
10004	Timber Tunnel Liner	T	F	F	T	[] []
10005	Masonry Tunnel Liner	T	F	F	T	[] []
10006	Unlined Rock Tunnel	T	F	F	T	[] []
10007	Rock Bolt/Dowel	T	F	F	T	[] []
10009	Other Tunnel Liner	T	F	F	T	[] []
10010	Steel Tunnel Roof Girder	T	F	F	T	[] []
10011	Concrete Tunnel Roof Girder	T	F	F	T	[] []

Asset Element Defect/Protective System

The screenshot displays a web application interface for managing bridge assets. The top navigation bar shows the user 'USER, PONTIS' and the current path: 'Admin > Ancillary Assets > Asset Element-Child Linking'. The main content area is titled 'Edit Element Links' and is divided into three sections: 'Element Details', 'Protective Systems', and 'Defects'. The 'Element Details' section shows an ID of 10000 and a Short Name of 'Steel Tunnel Liner'. The 'Protective Systems' section contains a list of three items with checkboxes: '10950 Steel Corrosion Protective Coat' (checked), '10951 Conc Corrosion Protective Coat' (unchecked), and '10952 Fire Protective Coating' (checked). The 'Defects' section contains a list of seven items with checkboxes: '80000 Leakage' (checked), '80001 Distortion' (checked), '80002 Settlement' (unchecked), '80003 Leakage (Joints)' (unchecked), '81100 Corrosion' (checked), '81102 Cracking (Steel)' (checked), and '81103 Connection' (checked). The interface includes a left sidebar with navigation options like 'BRIDGES', 'INSPECTION', 'REPORTS', 'TUNNELS', 'ADMIN', 'SECURITY', 'GENERAL CONFIG', 'MAPPING', 'MODELING CONFIG', 'ANCILLARY ASSETS', 'GATEWAY', 'ANALYSIS', 'PROJECTS', and 'PROGRAMS'. At the bottom, there are buttons for 'Save', 'Save & Close', and 'Cancel'.

USER, PONTIS

Admin > Ancillary Assets > Asset Element-Child Linking

Edit Element Links

Element Details

ID: 10000

Short Name: Steel Tunnel Liner

Protective Systems

Select All Unselect All

- 10950 Steel Corrosion Protective Coat
- 10951 Conc Corrosion Protective Coat
- 10952 Fire Protective Coating

Defects

Select All Unselect All

- 80000 Leakage
- 80001 Distortion
- 80002 Settlement
- 80003 Leakage (Joints)
- 81100 Corrosion
- 81102 Cracking (Steel)
- 81103 Connection

Save Save & Close Cancel

Asset List Filter

USER, PONTIS

Bridges > Manage Filters > Edit SQL

ASHTOWare
BrM Bridge Management

BRIDGES

- VIEW LIST
- MANAGE LAYOUTS
- MANAGE FILTERS
- EDIT FILTER**
- EDIT SQL
- NEW INSPECTION
- SUFF RATE
- VALIDATE
- CREATE STRUCT
- COPY STRUCT
- REMOVE STRUCT
- MAPPING
- INSPECTION ASSIGNMENT
- BRIDGE GROUP DETAILS
- INSPECTION
- REPORTS
- TUNNELS
- ADMIN

Select Context: Bridge List

Select Filter: 000101

Bridge Type and Material

New

SQL Info

- Ancillary Asset List
- Bridge Group Details
- Bridge List**
- Description
- Funding
- Needs List
- Programs
- Projects
- Signs
- Tunnels

SQL Statement

SQL Statement Requirements

*The current context requires a selection statement that contains the following column:
bridge_gd as 'key_'

```
SELECT DISTINCT(bridge.bridge_gd) "key_", bridge.bridge_id "Bridge ID", bridge.strucname "Name", bridge.district "District", bridge.county "County", bridge.facility "Facility Carried", bridge.placecode "Municipality", bridge.featur "Feature Intersected", bridge.owner "Own", bridge.nbtslen "NB", bridge.custodian "Maint", bridge.yearbuilt "Built", inspevnt.bridge_condition "Bridge Condition", inspevnt.oppostcd "Posting Code", inspevnt.nextinsp "Next Route Inspection", bridge.bridge_gd "bridge_gd" from bridge left outer join (select * from (select i2.BRIDGE_GD, row_number() over (partition by bridge_gd order by name desc) m, STUFF(select ' ' + team.TEAM_NAME from PON_INSP_GROUP_BRIDGE road_JOIN PON_INSP_GROUP_grps on grps.PON_INSP_GROUP_GD = road.PON_INSP_GROUP_GD JOIN PON_INSP_TEAM_GROUP_XR on XR.PON_INSP_GROUP_GD = grps.PON_INSP_GROUP_GD AND XR.REMOVED_DATE IS NULL JOIN pon_insp_team team on team.PON_INSP_TEAM_GD = XR.PON_INSP_TEAM_GD JOIN BRIDGE on BRIDGE.BRIDGE_GD = road.BRIDGE_GD where road.BRIDGE_GD = i2.BRIDGE_GD FOR XML PATH(""),1,1) as team_name from PON_INSP_GROUP i1 JOIN PON_INSP_GROUP_BRIDGE i2 on i2.PON_INSP_GROUP_GD = i1.PON_INSP_GROUP_GD) iv where iv.m=1) pon_insp_group on pon_insp_group.bridge_gd = bridge.bridge_gd left outer join (select * from (select i2.BRIDGE_GD, row_number() over (partition by bridge_gd order by name desc) m, STUFF(select ' ' + grps.NAME from PON_INSP_GROUP_BRIDGE road_JOIN PON_INSP_GROUP_grps on grps.PON_INSP_GROUP_GD = road.PON_INSP_GROUP_GD JOIN BRIDGE on BRIDGE.BRIDGE_GD = road.BRIDGE_GD where road.BRIDGE_GD = i2.BRIDGE_GD FOR XML PATH(""),1,1) as name from PON_INSP_GROUP i1 JOIN PON_INSP_GROUP_BRIDGE i2 on i2.PON_INSP_GROUP_GD = i1.PON_INSP_GROUP_GD) iv where iv.m=1) pon_insp_group on pon_insp_group.bridge_gd = bridge.bridge_gd left outer join (select * from (select i1.*, row_number() over (partition by bridge_gd order by inspdte desc, createdatetim desc) m) from inspevnt i1) iv where iv.m=1) inspevnt on inspevnt.bridge_gd = bridge.bridge_gd left outer join userbrdg on userbrdg.bridge_gd = bridge.bridge_gd left outer join (select distinct bridge_gd, MIN(ON_UNDER) on_under from ROADWAY group by bridge_gd) r2 on r1.bridge_gd = r2.bridge_gd and r1.on_under = r2.on_under) roadway on roadway.bridge_gd = bridge.bridge_gd left outer join userway on roadway.roadway_gd = userway.roadway_gd left outer join usersinp on usersinp.inspevnt_gd = inspevnt.inspevnt_gd left outer join (select * from (select stunit.*, row_number() over (partition by bridge_gd order by structure_unit_gd) m) from structure_unit stunit) s1 where s1.m=1) structure_unit on structure_unit.bridge_gd = bridge.bridge_gd left outer join userstrunit on userstrunit.structure_unit_gd = structure_unit.structure_unit_gd WHERE BRIDGE.BRIDGE_ID = '000101'
```

Total SQL length: 2875 of 3999

SQL Order By: ORDER BY "Bridge ID"

Evaluate

Save Save As 000101 Reset Delete

Ancillary Asset Request for Action

USER, PONTIS

Asset: 1 [Create](#)

Request For Action: 1-09092022 [Create](#)

Ancillaries > Dams Requests For Action

Details

Submitted By: (Pontis) User, Pontis Agency / Company Name: Bentley
RFA Number: 1-09092022 RFA Date: 9/9/2022
Inspection: No Inspection

Immediate Action

Recommended Action: Requested By: [Delete](#)
Requested Date: Completed By:
Completed Date: Date Traffic Restored / Signs Installed:
Traffic Restoration / Sign Installation Comments:
Add comment:

Intermediate Action

Action: No values to display [Delete](#) [Add New](#)
Contact/User: Agency/Company Name:
Date Reviewed: mm/dd/yyyy Priority:
Date Completed: mm/dd/yyyy No Of Locations:
Add comment:

Status: Unresolved [Save](#) [Delete](#)

- BRIDGES
- INSPECTION
- REPORTS
- TUNNELS
- ADMIN
- GATEWAY
- ANALYSIS
- PROJECTS
- PROGRAMS
- RHODE WORKS
- INSPECTION MANAGEMENT
- HISTORIC
- ANCILLARIES
- SIGNS LIST
- SIGN INVENTORY
- SIGN INSPECTION


18 - Multimedia Screen Improvements (Core - 6.6)

- ◆ Field Dependent Dropdowns
 - ◆ Category drives Sub-Category

Upload Files

Context: BRIDGE

Folder: Bridge (000201)




Sort Order:



Report Flag:

Category:

Sub-Category:

Notes: 

Tags:

18 - Multimedia Screen Improvements (Core - 6.6)

Admin > General Config > Multimedia ?

MULTISERVER:

Note: This setting is only needed for existing legacy multimedia data.

MULTISERVER5:

Note: This setting is only needed for existing legacy multimedia data.

Sub-Category Mapping —

Category: ⌵

Available Sub-Categories		Selected Sub-Categories
<ul style="list-style-type: none">Design DocumentInspection PhotoLoad Rating SummaryPlansBrR FilesHand CalcsPosting Signs	<div style="margin-bottom: 5px;"><input type="button" value="»"/></div> <div style="margin-bottom: 5px;"><input type="button" value=">"/></div> <div style="margin-bottom: 5px;"><input type="button" value="<"/></div> <div><input type="button" value="«"/></div>	