

Enterprise GIS Steering Committee Meeting

March 12, 2021

Agenda

Welcome and Introductions

Utilities Implementation

Aerial Survey

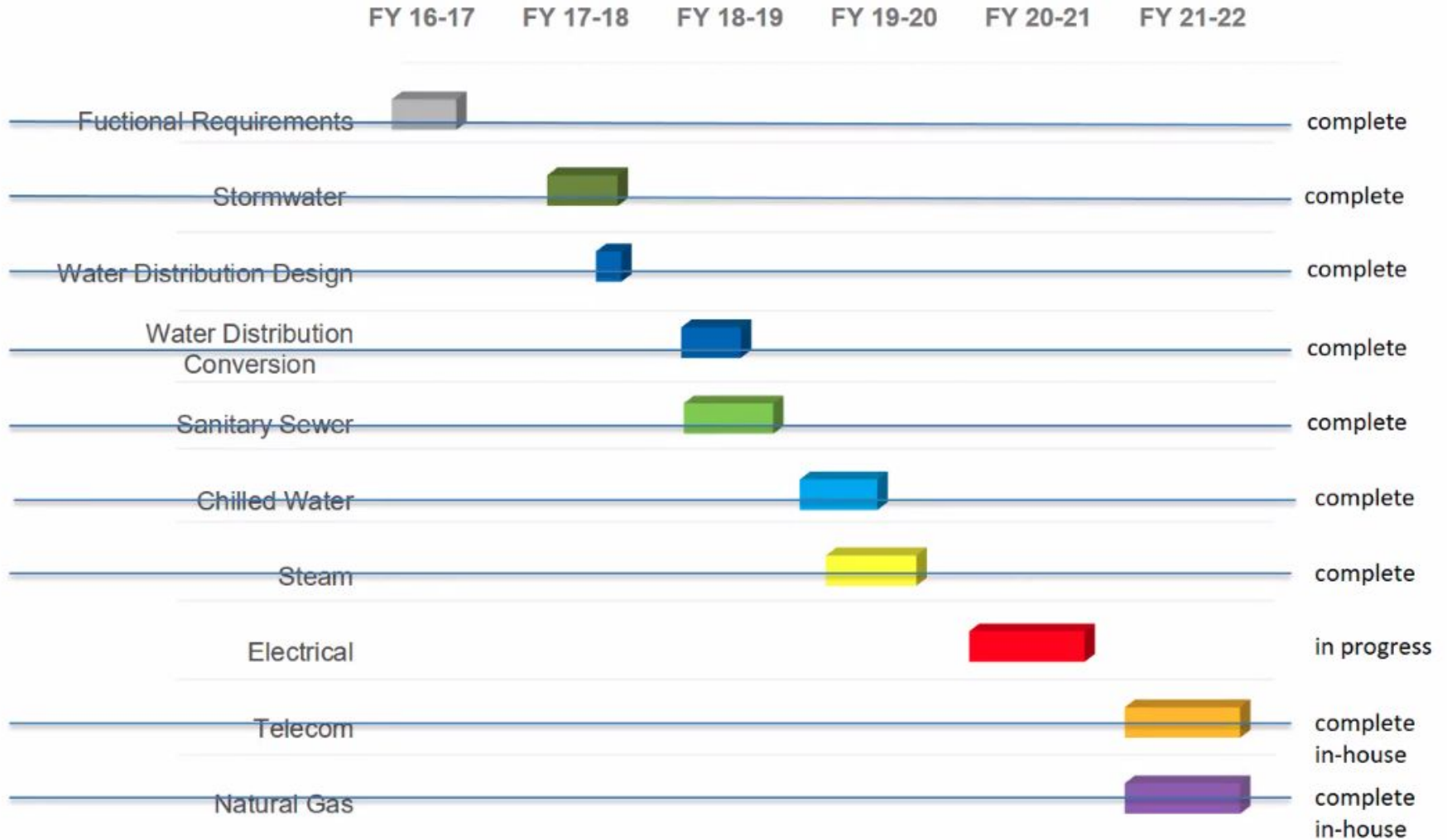
COVID Response

Online Campus Map

Accessibility Projects

Other Business

Utilities Implementation Schedule



Technical Working Group Activities



Stormwater

Meets as needed



Water
Distribution

Completed initial functional requirements review
Valve Isolation Trace ~Future Project



Sanitary
Sewer

Meets as needed



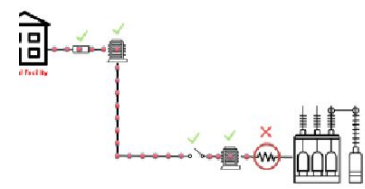
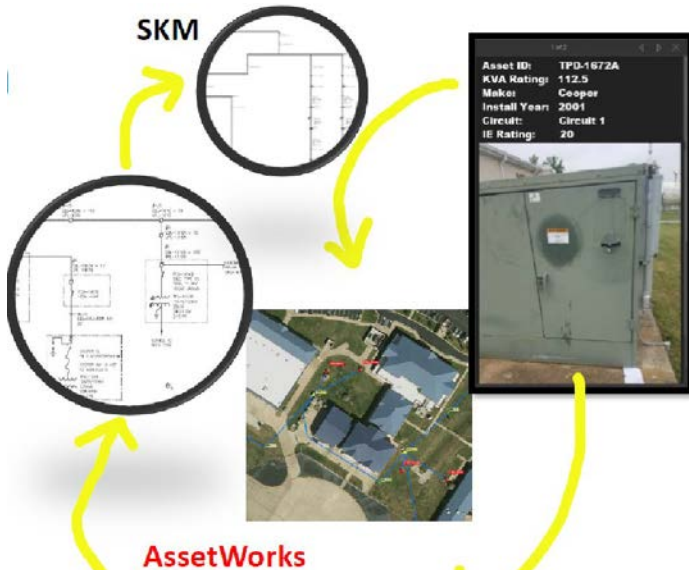
Chilled
Water



Steam

Steam TWG is working through functional requirements
Valve Isolation Trace ~Future Project

Electrical Distribution Functional Requirements & Data Migration



FeatureID	AssetNumber	RatedKVA	InstallType	LowSideVoltage	PhaseType
TPD-3420	UM4643000112	225	PAD MOUNTED	480V/277.4 V WIRE	THREE PHASE
TPD-3415	UM4263000145	300	PAD MOUNTED	208V/120.4 V WIRE	THREE PHASE
TPD-3421	UM4263000146	300	PAD MOUNTED	208V/120.4 V WIRE	THREE PHASE
TPD-3425	UM4643000111	11	PAD MOUNTED	240/120.4 V WIRE	THREE PHASE
TPD-3435	UM4263000148	150	PAD MOUNTED	208V/120.4 V WIRE	THREE PHASE
TPD-3445	UM4263000149	300	PAD MOUNTED	480V/277.4 V WIRE	THREE PHASE
TPD-3450A	UM4263000141	500	PAD MOUNTED	208V/120.4 V WIRE	THREE PHASE
TPD-3450B	UM4643000186	300	PAD MOUNTED	480V/277.4 V WIRE	THREE PHASE



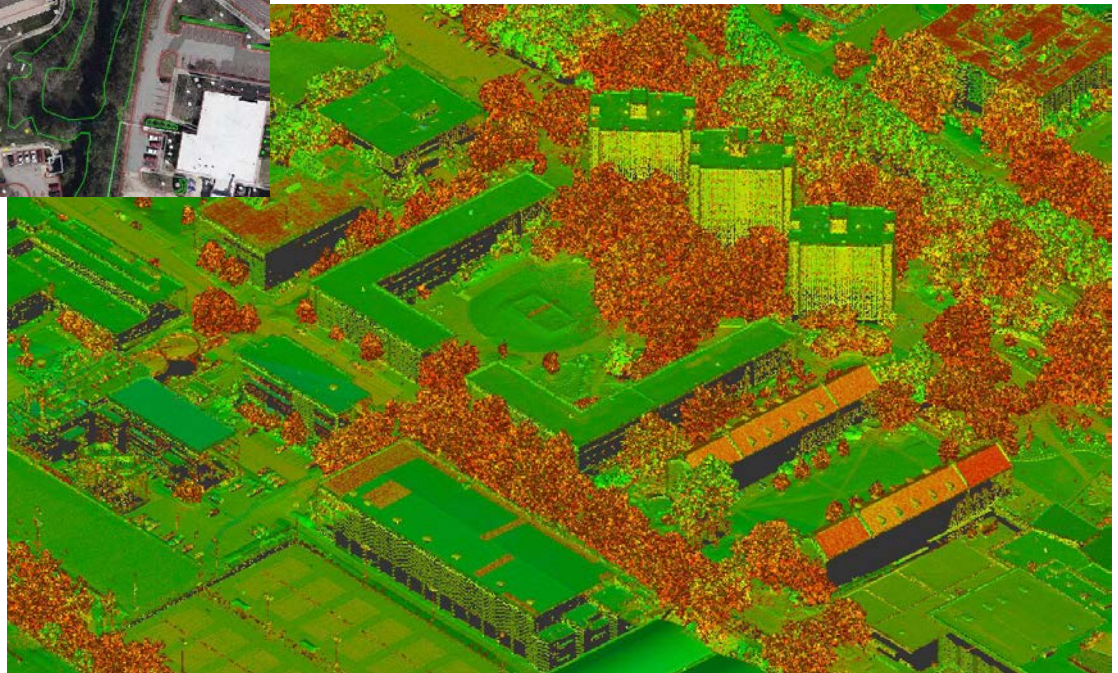
Analysis – Capital Planning – PM Programs – ArcFlash – Modeling – Construction Management – Risk Analysis

Aerial Survey

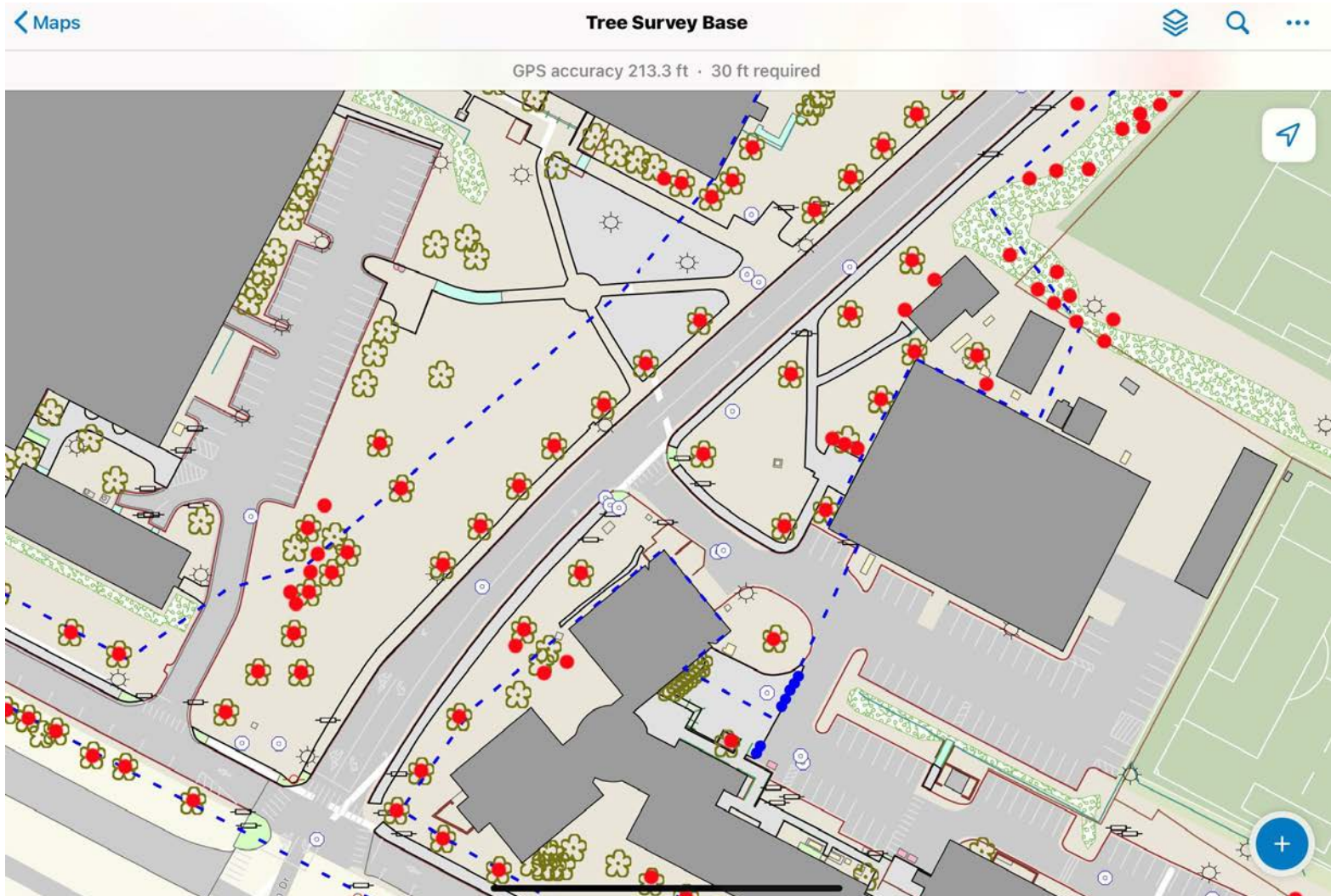


Ortho Imagery

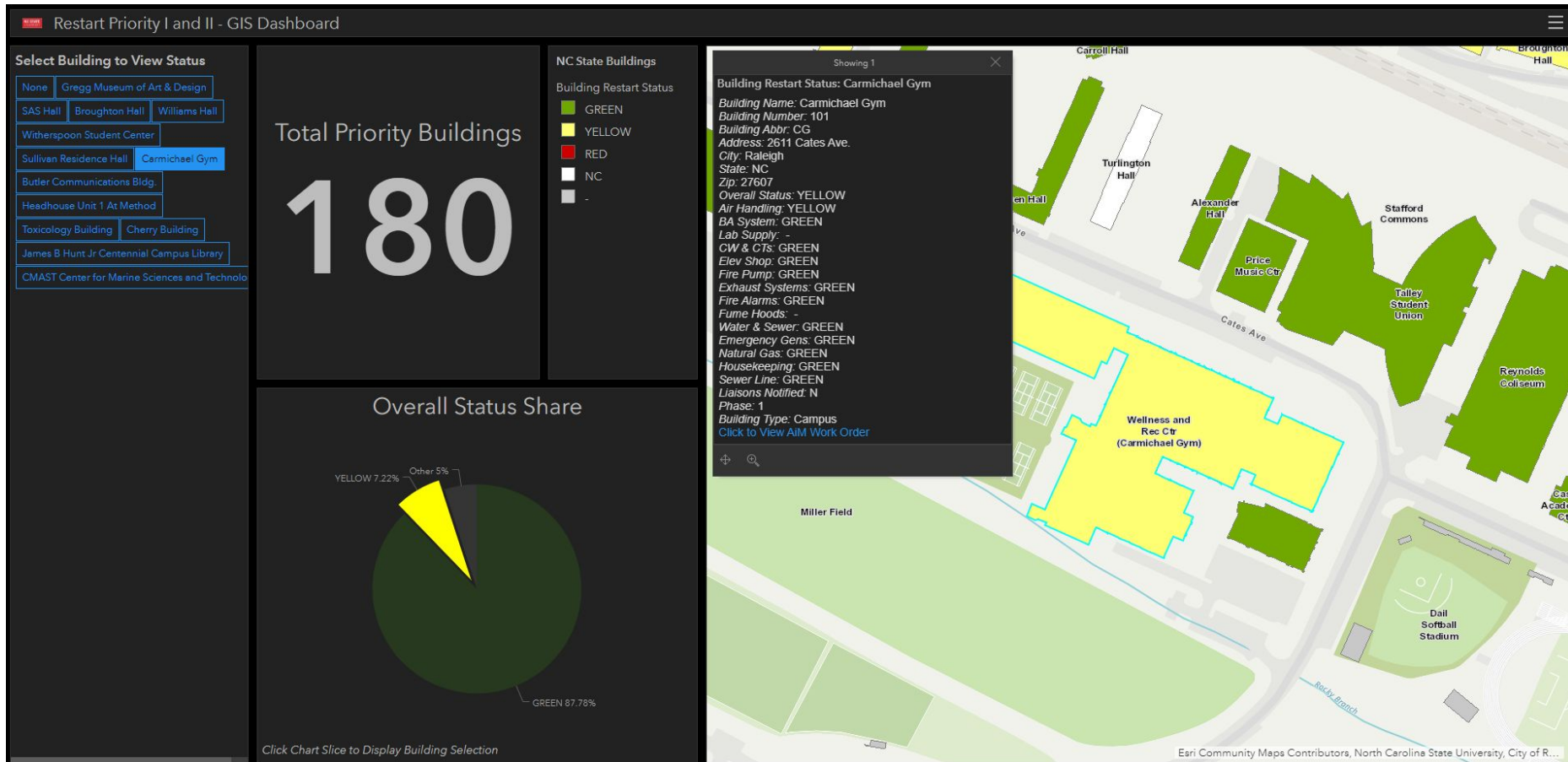
LiDaR Point Cloud



Electrical Distribution Upgrade Support



COVID Response - Research Restart



<https://go.ncsu.edu/restart-gisdashboard>

COVID Response - Outdoor Spaces



Legend

Outdoor Spaces

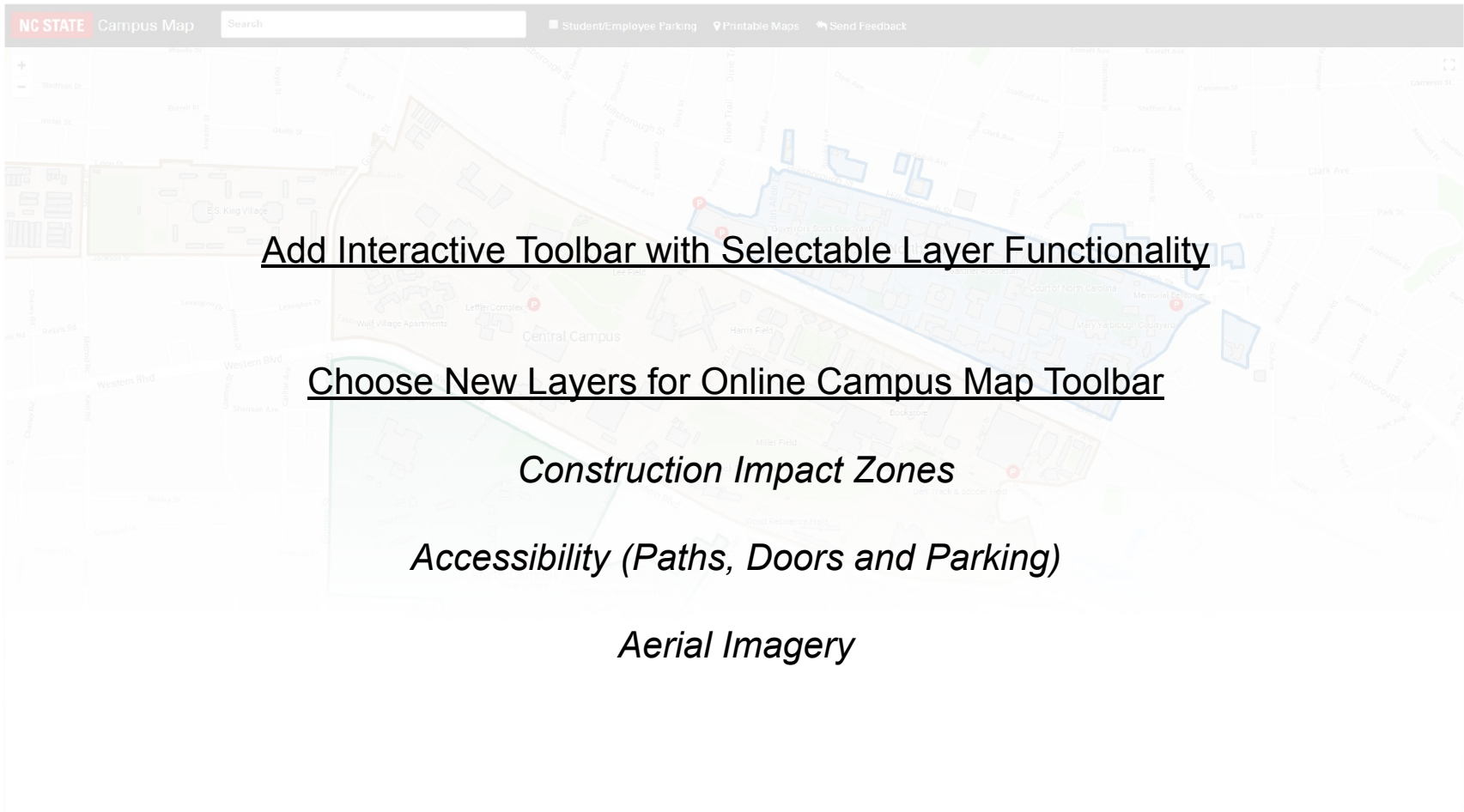
- Outdoor Spaces
- Furniture
- Covered Furniture
- Tent + Furniture
- Outdoor Classroom



<https://facilities.ofa.ncsu.edu/coronavirus/>
<https://go.ncsu.edu/outdoor-tents-furniture-map>

Online Campus Map

Enhancements



Add Interactive Toolbar with Selectable Layer Functionality

Choose New Layers for Online Campus Map Toolbar

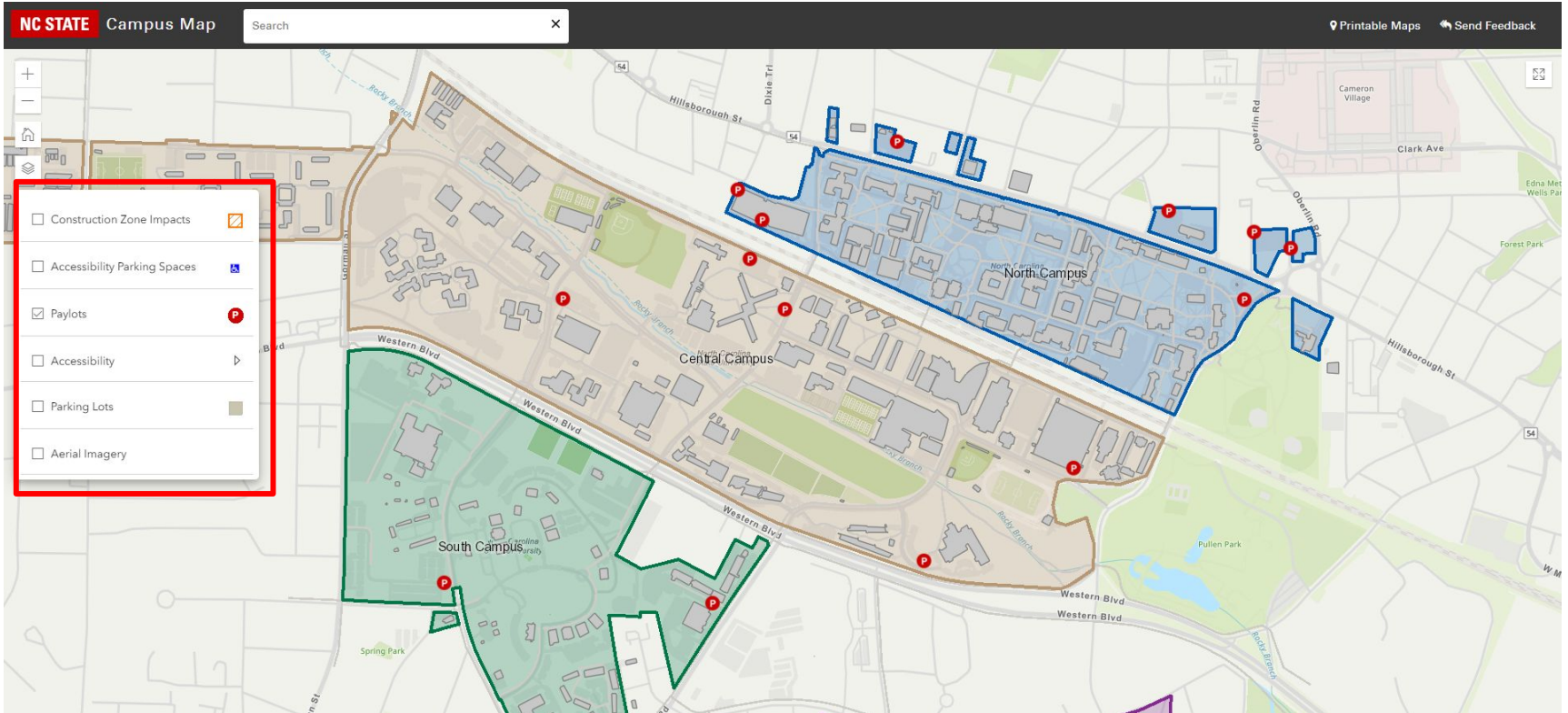
Construction Impact Zones

Accessibility (Paths, Doors and Parking)

Aerial Imagery

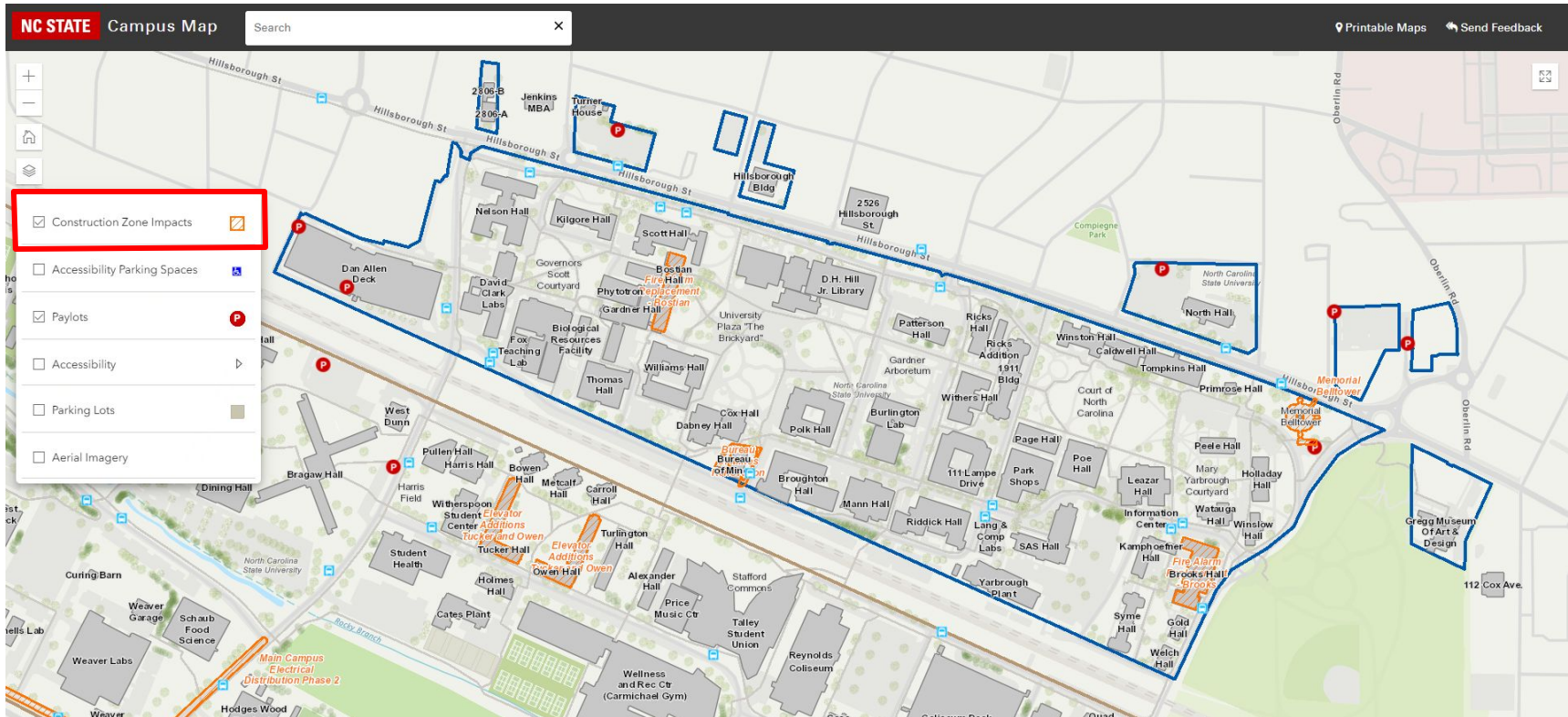
[Online Campus Map](#)

Online Campus Map



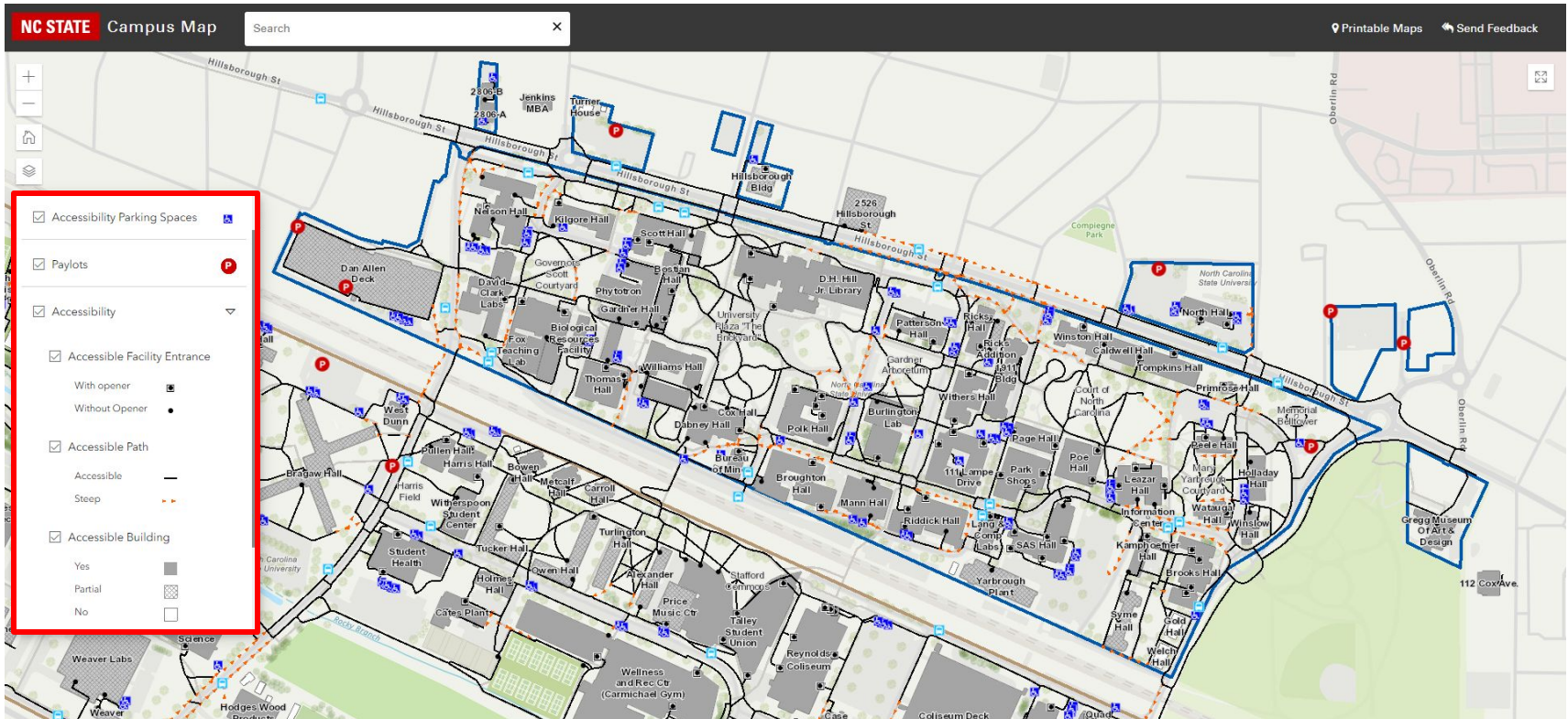
[Online Campus Map](#)

Online Campus Map



[Online Campus Map](#)

Online Campus Map



[Online Campus Map](#)

Online Campus Map



[Online Campus Map](#)

Accessibility Goals Recap

Short-term

- Update the map data to current conditions.
- Provide in electronic format to campus community.
- Align with branding and other mapping efforts.

Long-term

- Prepare Accessibility data to be included on the online campus map.

Accessibility Projects

CampusMap_Accessibility_Path_Entrance_BuildingEdit.mxd - ArcMap

File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help

1:5,000

Drawing Arial 10 B I U

Table Of Contents

Layers

- dbo.DEFAULT (ncsugisdb)
 - EnterpriseGIS.GIS_LOADER.Accessibility
 - EnterpriseGIS.GIS_LOADER.Accessible_BLDGS
 - EnterpriseGIS.GIS_LOADER.Accessible_Facility
 - EnterpriseGIS.GIS_LOADER.Accessible_Path
 - Slope
 - Access
 - Steep
 - EnterpriseGIS.GIS_LOADER.CampusBaseMap
 - REF_EnterpriseGIS.GIS_LOADER.WALKS_NCSU
- S:\FIS\GIS\Maps\Accessibility_Map\Accessibility_20:
 - Accessible_FacilityEntrance
 - Door Opener?
 - No
 - Yes
 - Accessible_Path
 - Slope
 - Access
 - Steep
 - Accessible_BLDGSCAMPUS

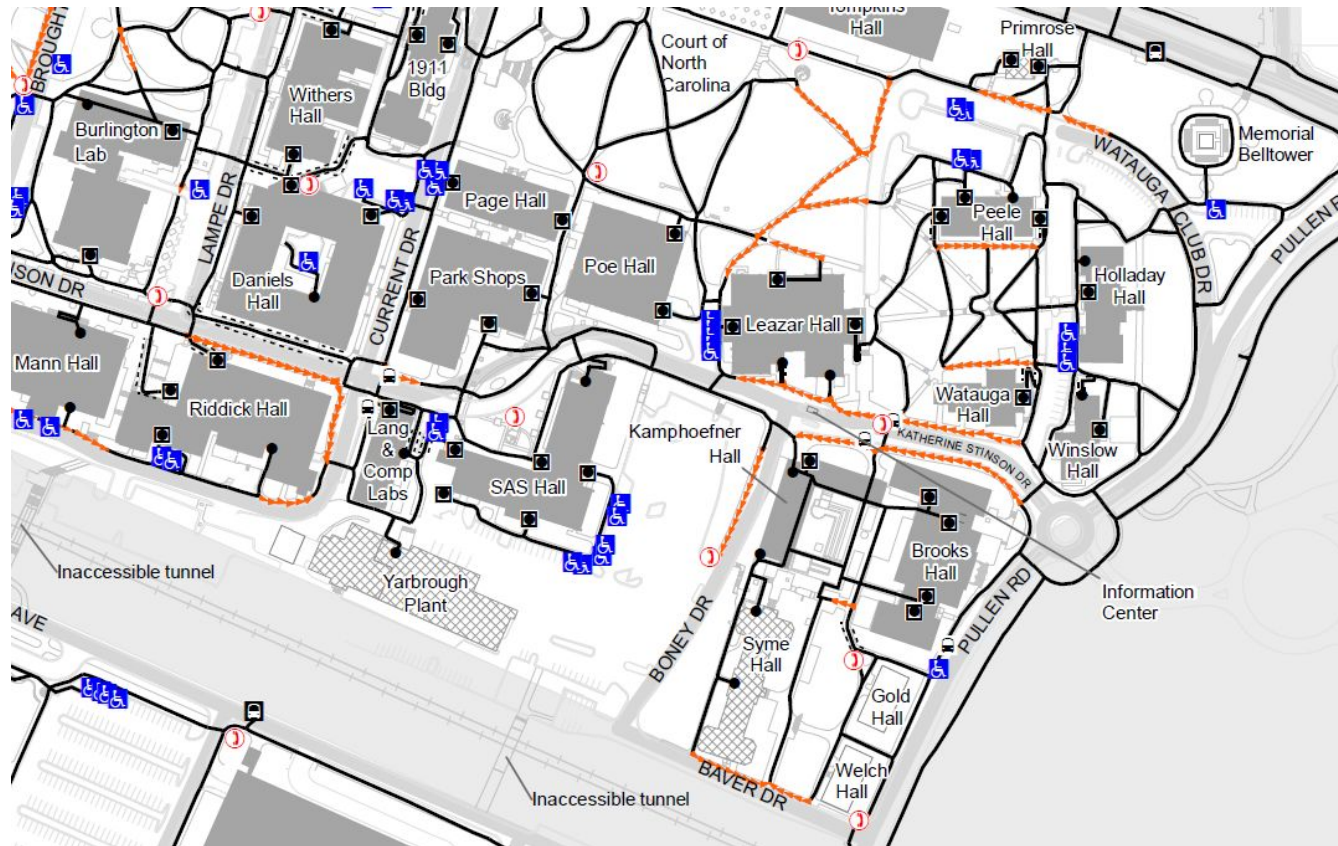
Table

Accessible_Path

OBJECTID*	Shape*	DESIGNATIO	Slope	Handrail	Material	Desig	Notes	Enabled	AC_Path	ACF_Path	Conn_Path	N_Path	NF_Path	MP_Path	MPF_Pat
1	Polyline	Road	Access	N	Gravel	ADA		True	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
2	Polyline	Sidewalk	Access	N	BRCK	Neighborhood		True	<Null>	<Null>	<Null>	1	<Null>	<Null>	<Null>
3	Polyline	Sidewalk	Access	N	BRCK	All Campus		True	1	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
4	Polyline	Crosswalk	Access	N	BRCK	All Campus		True	1	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
5	Polyline	Crosswalk	Access	N	CONCRETE	Connector		True	<Null>	<Null>	<Null>	1	<Null>	<Null>	<Null>





Maintained in GIS

Accessibility Projects



Data shown in both Online Campus Map and Printable Map

Accessibility Projects

unique_ID	IHCD ID	Information Provided by Institute for Human Centered Design											Project Management for the North Carolina State University				
		Photos	Bid g. #	Facility Name	Element	Issue/Physical Barrier	Location	Fl.	R m .	Priorit y	Priority for Corrective Action	Remedies	Quantit y	Estimat ed Cost of Barrier Remov	Project Start Date	Project Complet ion Date	Responsible for Barrier Removal
003_1	1		003	Holladay Hall	A. Exterior Access Route	F. Cross slope > 1:48 (2.08%)	Towards Larger Parking Lot	Ext.		Priority 1	Program Access	Reduce cross slope to be no steeper than 1:48 (2.08%). (Cross slope correction may require further study.)	1	50			
003_2	2		003	Holladay Hall	B. Curb Ramp	D. Running slope > 1:12 (8.33%)	Right-Most Accessible Car Space	Ext.		Priority 1	Program Access	Reduce running slope to be no steeper than 1:12 (8.33%). (Running slope correction may require further study.)	1	50			
003_3	3		003	Holladay Hall	B. Curb Ramp	E. Transition from curb ramp to street not flush	Left of Accessible Entrance	Ext.		Priority 1	Program Access	Ensure transition from curb ramp to street is flush or free of changes in level.	1	585			
003_4	4		003	Holladay Hall	C. Off-Street Parking Lot or Garage	A. Total # of parking B. Total # of designated accessible parking spaces C. Total # of designated van accessible spaces P. Sign does not have the designation "Van Accessible"	Parking South of Accessible Entrance	Ext.		Priority 1	Program Access	Add the designation "Van Accessible" to the sign located at the van accessible space.	1	5250			

Locate Exterior IHCD Data Points

Accessibility Projects

The screenshot displays the ArcGIS Desktop interface. The main map area shows an aerial view of a building complex with several red asterisks placed around the building, indicating specific accessibility assessment locations. The Table of Contents on the left side of the window lists the following layers:

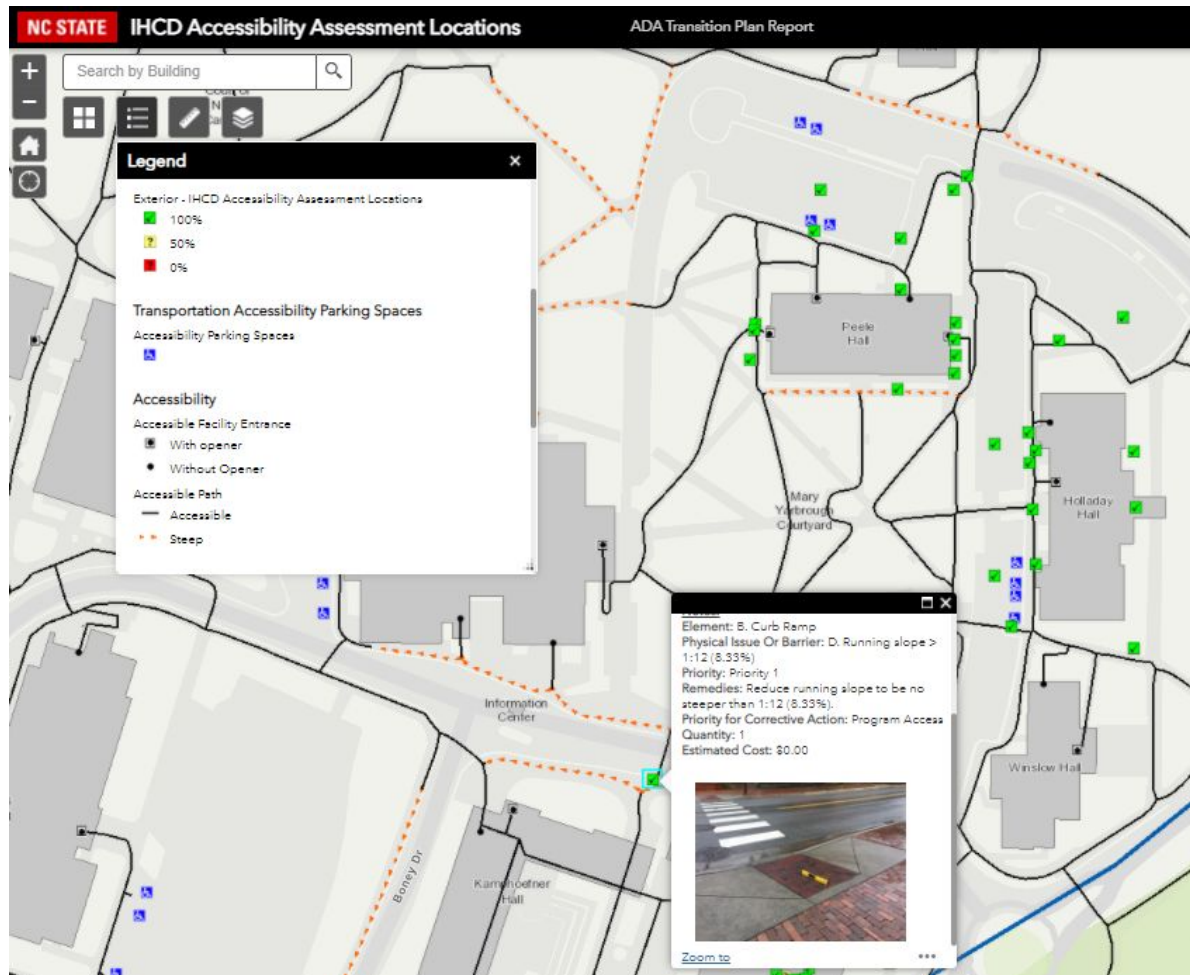
- E:\WORKING\IHCD_Transition_Plan\GIS\IHCD_Transitio
- LOCAL_Photo_test
- dbo.DEFAULT (ncsugisdb)
 - EnterpriseGIS.GIS_LOADER.Accessibility
 - EnterpriseGIS.GIS_LOADER.IHCDAccessibilityAss
- E:\WORKING\IHCD_Transition_Plan\CAD_BLDGS_Ref\0
- World Imagery

Below the map, a data table is visible, titled 'EnterpriseGIS.GIS_LOADER.IHCDAccessibilityAssessmentLocations'. The table contains the following data:

OBJECTID*	IHCD Report ID	Interior	Floor	Error	Level of Confi	Directory	FileName	FileType	URL Path	created_user
1	011_1	Exterior	Ext	No	100%	https://projects.ncsu.edu/facilities/ADA/011/	1	.jpg	https://projects.ncsu.edu/facilities/ADA/011/1.jpg	DSWYNNNE
31	011_10	Exterior	2	Yes	50%	https://projects.ncsu.edu/facilities/ADA/011/	10	.jpg	https://projects.ncsu.edu/facilities/ADA/011/10.jpg	DSWYNNNE
32	011_11	Exterior	Ext	No	50%	https://projects.ncsu.edu/facilities/ADA/011/	11	.jpg	https://projects.ncsu.edu/facilities/ADA/011/11.jpg	DSWYNNNE
33	011_12	Exterior	Ext	No	50%	https://projects.ncsu.edu/facilities/ADA/011/	12	.jpg	https://projects.ncsu.edu/facilities/ADA/011/12.jpg	DSWYNNNE
34	011_13	Exterior	Ext	No	100%	https://projects.ncsu.edu/facilities/ADA/011/	13	.jpg	https://projects.ncsu.edu/facilities/ADA/011/13.jpg	DSWYNNNE
35	011_14	Exterior	Ext	No	50%	https://projects.ncsu.edu/facilities/ADA/011/	14	.jpg	https://projects.ncsu.edu/facilities/ADA/011/14.jpg	DSWYNNNE
36	011_15	Exterior	Ext	Yes	50%	https://projects.ncsu.edu/facilities/ADA/011/	15	.jpg	https://projects.ncsu.edu/facilities/ADA/011/15.jpg	DSWYNNNE
37	011_16	Exterior	1	Yes	50%	https://projects.ncsu.edu/facilities/ADA/011/	16	.jpg	https://projects.ncsu.edu/facilities/ADA/011/16.jpg	DSWYNNNE

Locate Exterior IHCD Data Points

Accessibility Projects



Locate Exterior IHCD Data Points

Other Business