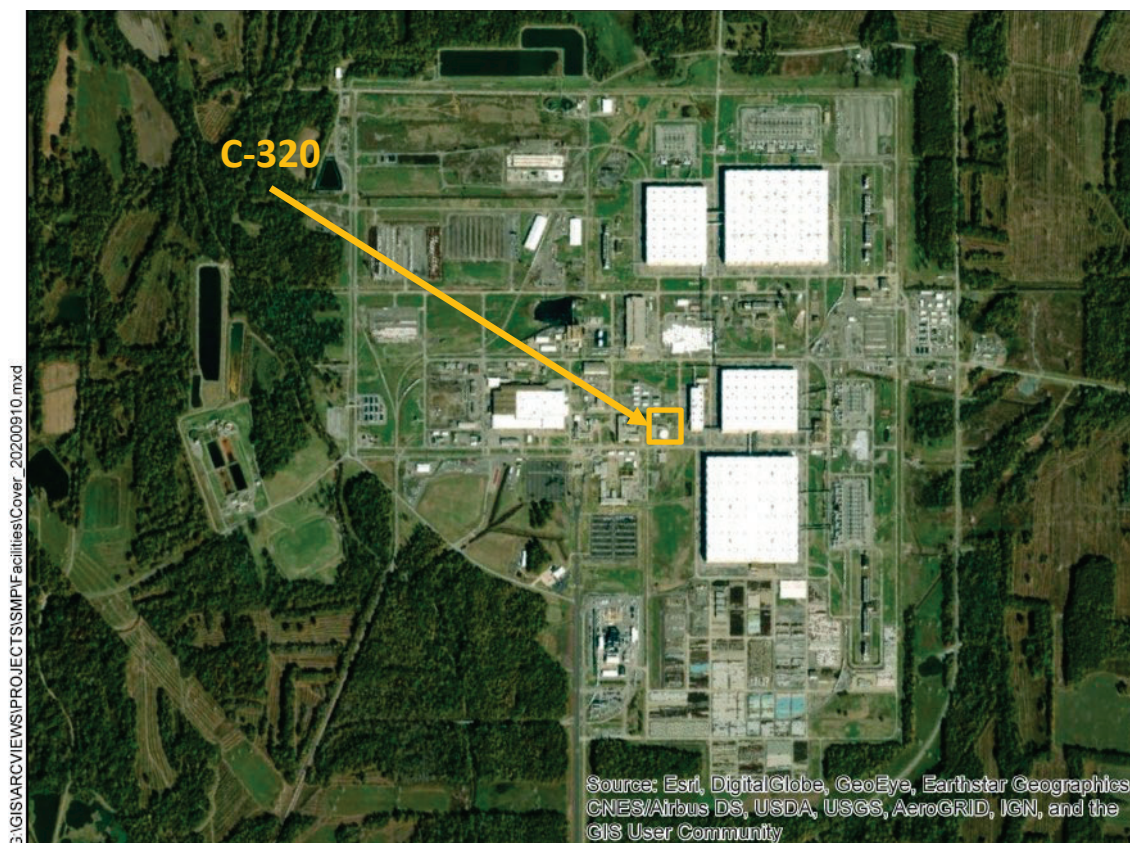


C-320 Communication Building



Facility Overview Briefing

March 4, 2021

Reflects consultation with EPA and Kentucky in accordance with the Site Management Plan that occurred on February 22, 2021.

Purpose

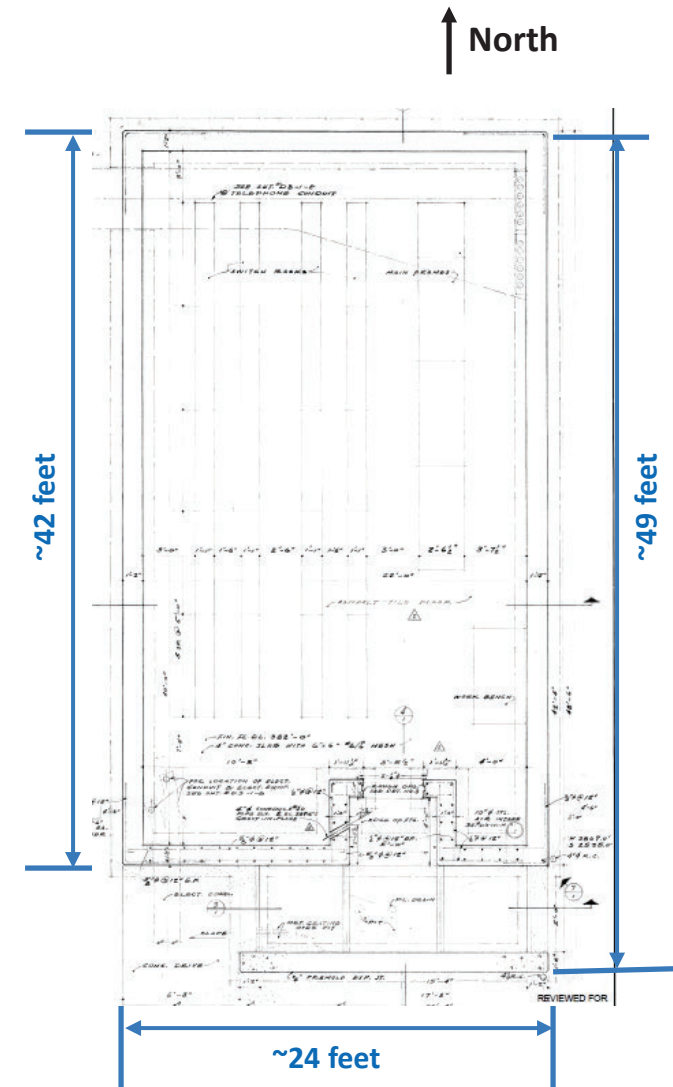
- The C-320 Communication Building is a candidate for future demolition and disposal, contingent upon funding priorities.
- Listed in Appendix 6 of the Site Management Plan (SMP); requires consultation with EPA and Kentucky for CERCLA screening prior to demolition.
- This presentation is intended to serve as consultation, providing the basis for demolition and disposal of the aboveground structure outside of the FFA/CERCLA process.
- The remaining slab/soils will be subject to a future CERCLA evaluation under Geographical Area (GA) 15.



C-320 Facility Photo: 8/2020

Construction History

- C-320 is located within the Paducah Site security fence, west of C-710 and north of the C-300 Central Control Building.
- Construction was initiated in 1952 and completed in 1954 (engineering drawing D3-1-A).
- The facility is a one-story rectangular building constructed with reinforced concrete with a small roofed annex structure on the south entrance covering a concrete pit.
- The concrete pit served as part of the original HVAC ventilation system for exterior air intake (see backup engineering drawing D3-101-M).
- The facility is approximately 1,116 ft².
 - ❑ Measuring ~42 ft x ~24 ft and ~49 ft x ~24 ft.



Engineering Drawing: D3-1-A

Operational History

- C-320 continuously has been operated since its initial construction, in conjunction with the C-300, C-302, and C-303 facilities to support the Paducah Site central operations and control function.
- C-320 houses the PAX telecommunication system for the entire site, including a backup emergency PA system and a fire sprinkler system.
- The facility includes a 48-V DC battery bank (lead acid batteries) and other batteries associated with the telephone Uninterruptible Power Supplies (UPS).
- USEC leased the facility in the early 1990s and continued to use it to support the site's telecommunication system until USEC ceased operations in 2014.
- The facility was transitioned from USEC to DOE in 2014 and continues to be operated for its above mentioned purpose.



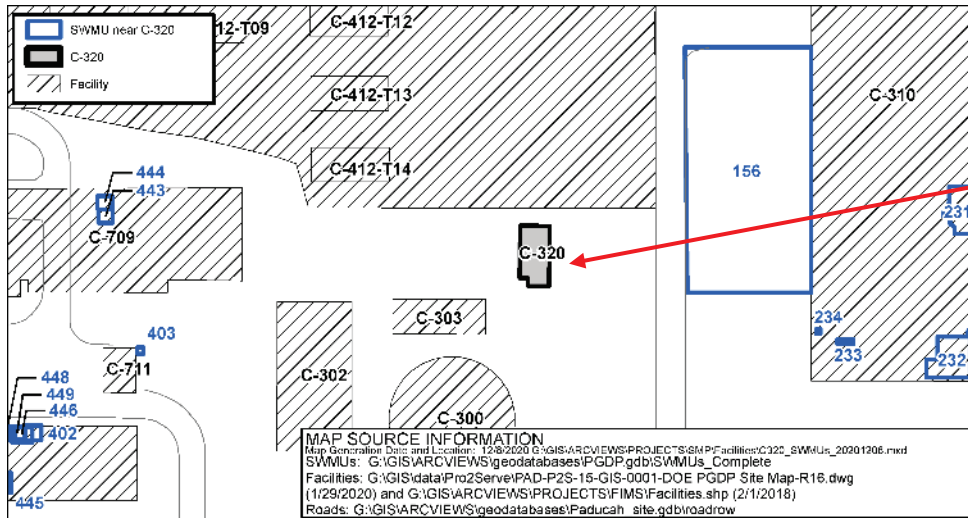
C-320 Facility Photos: 10/2020

Current Status

- C-320 is still operational and continues to support its intended function for telecommunications.
- Walkdown inspection conducted in October 2020 and employee interviews confirmed no unusual conditions.
 - ❑ Active telecommunication lines throughout the facility.
 - ❑ Battery banks to provide power for the telecommunication operations.
 - ❑ Empty concrete pit at south entrance that was part of the original HVAC ventilation system.
 - ❑ No known chemical spills.



Environmental Impacts (Solid Waste Management Units)



- The C-320 building is not designated as a SWMU/AOC.

SWMU No.	Facility Name	Current Status	NFA Approval By
156	C-310 PCB Soil Contamination (West Side)	Soils Remedial	
231	DMSA	RCRA Permit (Non-FFA)	
232	DMSA	RCRA Permit (Non-FFA)	
233	DMSA	RCRA Permit (Non-FFA)	KDWM 2/12/2010
234	DMSA	RCRA Permit (Non-FFA)	KDWM 4/24/2009
402	G-710-04	NFA	KDWM 9/11/2003
403	G-710-20	NFA	KDWM 1/4/2006
443	S-709-01	NFA	KDWM 6/29/2004
444	S-709-02	NFA	KDWM 6/29/2004
445	S-710-05	NFA	KDWM 2/14/2006
446	S-710-06	NFA	KDWM 9/11/2003
448	S-710-16	NFA	KDWM 9/11/2003
449	S-710-18	NFA	KDWM 9/11/2003

Environmental Impacts

- No information to indicate a release or threatened release of a hazardous substance that would require an evaluation for a potential response action to protect future public health or welfare or the environment.
 - ❑ C-320 has been used only to support the Paducah Site central operations and control function since its initial construction in the early 1980s.
 - ❑ Building materials used for construction could contain lead-based paints and asbestos materials, both of which can be effectively verified during a predemolition inspection and properly managed using standard demolition and waste management practices.
 - ❑ No history or records of chemical use or spills that would pose environmental release threat.

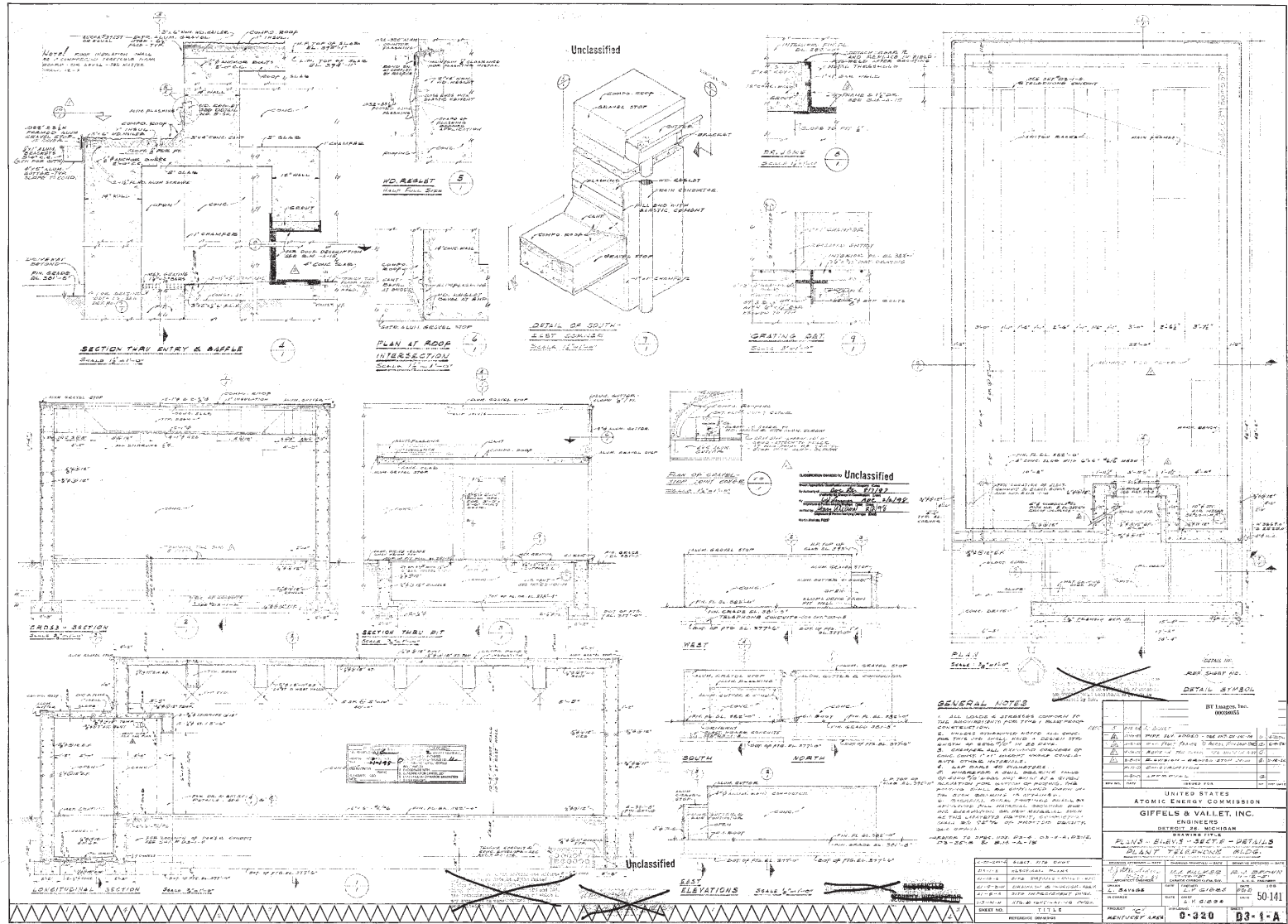
Conclusion and Recommendations

- Walkdown inspection of the facility, employee interviews, and other reviewed historical information did not identify any unusual conditions that would pose a potential threat of environmental release during future demolition of the aboveground structure.
 - ❑ Deactivation will include removal of any accessible loose items being stored, to the extent practicable, prior to demolition.
- Pending ceasing of operation, deactivation, and availability of funding, proceeding with demolition and disposal of C-320 (aboveground structure) outside of the FFA/CERCLA process, contingent upon the fact that no additional changes have occurred that would affect the CERCLA determination of the facility prior to demolition, is recommended.
- All applicable laws, regulations, and DOE procedures/protocols will be followed to ensure the demolition and disposal occurs in a safe, compliant manner, including conducting additional radiological characterization through confirmation radiological surveys (as necessary) to support demolition and waste disposition.
- The removal of the C-320 facility will be documented in the appropriate annual SMP revision.
- The future evaluation conducted for GA 15 will further evaluate the threat of release associated with the slab/soils from the C-320 facility.

C-320 Communication Building

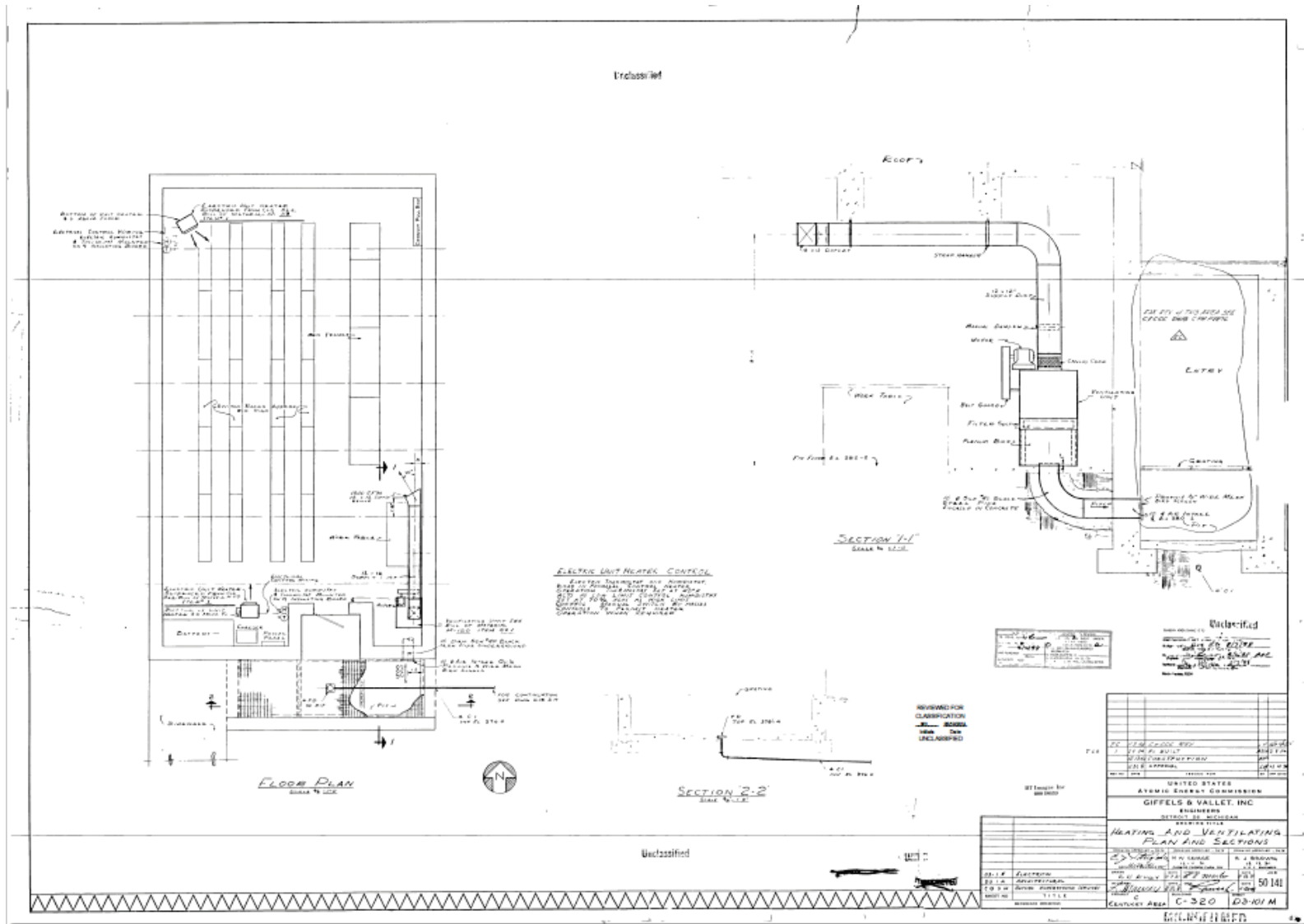
BACKUP INFORMATION

C-320 Engineering Drawings



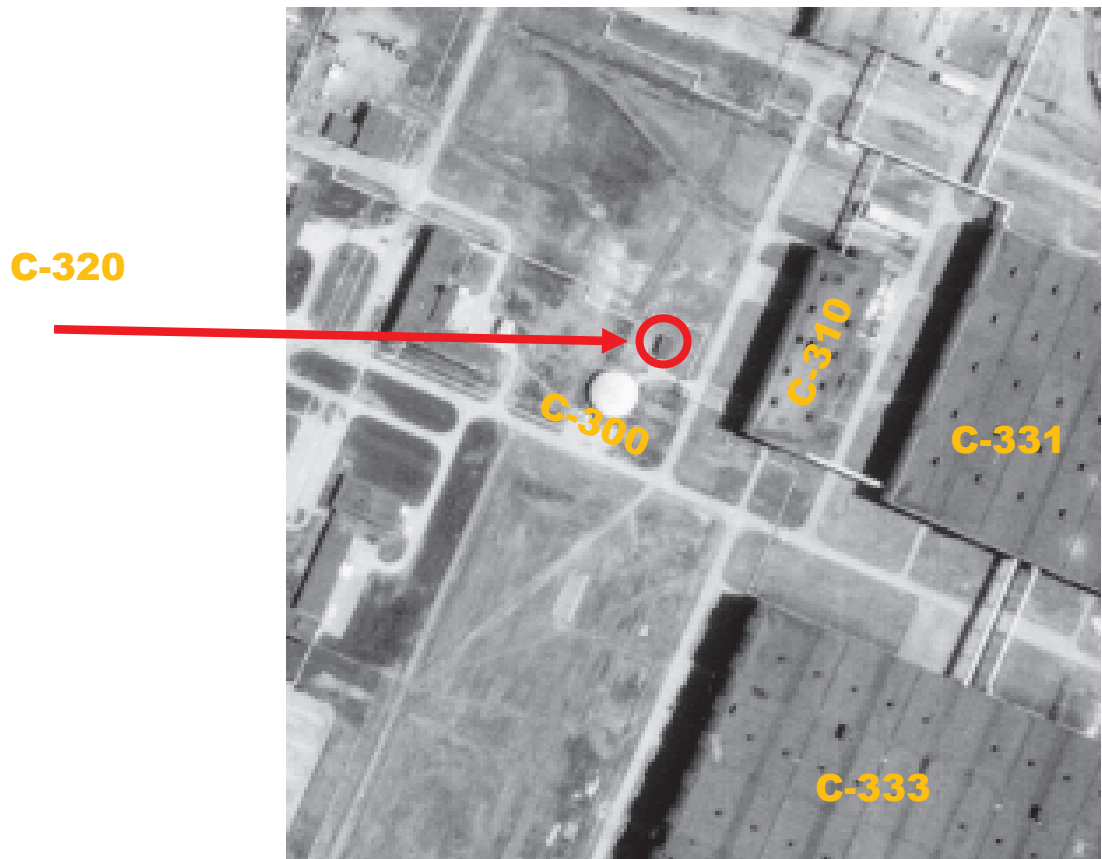
Engineering As-Built Drawing, D3-1-A

C-320 Engineering Drawings



Engineering As-Built Drawing, D3-101-M

C-320 Aerial Photograph



Modified from Aerial Photo: July 3, 1971 (ADZ-4LL-53)