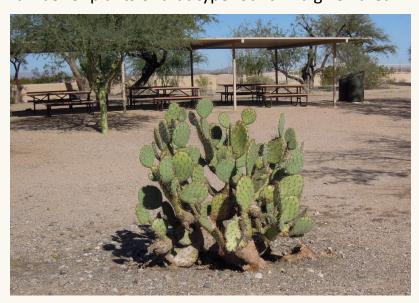




Areas Surveyed

Plant Inventory

An inventory of plant materials at the Visitor Center and Operations Complex at Casa Grande Ruins National Monument was conducted between February and May 2019 to identify plant types and the presence of native/non-native species. In addition, an analysis of landscape plans completed in 1932, 1958 and 1964 suggests extant trees which may date to one of these early landscape plans. The Complex is divided into subareas for ease of description. All plants listed below are native to Arizona except those called out on the list by bolded initials. The region of origin follows in those cases. Mesquites are considered native although most plants are likely to have some amount of hybridization with non-native Chilean mesquites. Plant lists include the scientific name, common name and number of plants of that type found in a given area.





Picnic Area

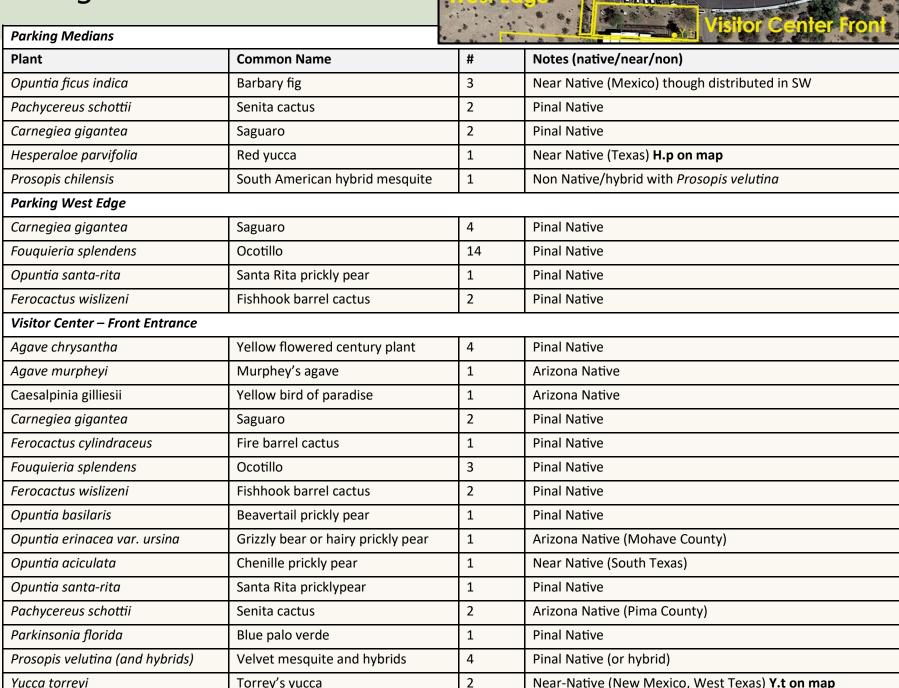
Plant	Common Name	#	Notes (native/near/non)	
Vachellia constricta, Acacia con- stricta	Whitethorn acacia	1	Pinal Native	
Atriplex polycarpa	Cattle saltbush	1	Pinal Native	
Carnegiea gigantea	Saguaro	5	Pinal Native	
Ferocactus cylindraceus	Fire barrel cactus	1	Pinal Native	
Fouquieria splendens	Ocotillo	7	Pinal Native	
Lycium exsertum	Gray wolfberry	2	Pinal Native	
Olneya tesota	Ironwood	8	Pinal Native	
Parkinsonia florida and Parkin- sonia microphylla	Blue palo verde and Foot- hill palo verde	7	Pinal Natives	
Opuntia engelmanii	Engelmann prickly pear	1	Pinal Native	
Prosopis glandulosa	Honey mesquite	1	Pinal Native	
Prosopis velutina (and hybrids)	Velvet mesquite (and hybrids)	~10	Pinal Native	
Tephrocactus articulatus var. papyracanthus	Paper spine cactus	1	Non-Native (Argentina)	
Yucca torreyi	Torrey's yucca	1	Near Native (New Mexi- co, West Texas)	
			Y.t on map	







Parking Area



Visitor Center South Area



Plant	Common Name	#	Notes (native/near/non)
Agave murpheyi	Murphey's agave	1	Arizona Native - rare in nature
Agave palmeri	Palmer's agave	1 planter	Pinal Native
Atriplex polycarpa	cattle saltbush	Secondary matrix plant	Pinal Native
Carnegiea gigantea	Saguaro	6	Pinal Native
Cylindropuntia leptocaulis	Christmas cactus	1 planter	Pinal Native
Echinocereus sp	Hedgehog cactus	1 planter, 1 west side	Pinal Native
Ferocactus cylindraceus	Fire barrel cactus	1	Pinal Native
Ferocactus wislizeni	Fishhook barrel cactus	2	Pinal Native
Fouquieria splendens	Ocotillo	3	Pinal Native
Larrea tridentata	Creosotebush	Primary matrix plant	Pinal Native
Lycium berlandieri	Berlandier wolfberry	1 courtyard	Pinal Native
Mammillaria grahamii	Arizona fishhook cactus	1 planter	Pinal Native
Opuntia santa-rita	Santa Rita pricklypear	1 planter	Pinal Native
Pachycereus schottii	Senita cactus	2	Pinal Native
Parkinsonia florida and/or Parkinsonia micro- phylla	Blue palo verde and/or Foothill palo verde	3	Pinal Native
Peniocereus greggii	Night Blooming Cereus, Queen of the Night	1 courtyard	Pinal Native
Prosopis velutina (and hybrids)	Velvet mesquite and hybrids	3	Pinal Native
Yucca torreyi	Torrey's yucca	1	Near Native (New Mexico, West Texas)
			Y.t on map

Office & Operations Area (formerly Residential Compound)

Plant	Common Name	#	Notes (native/near/ non)
Larrea tridentata	Creosotebush	Primary matrix plant	Pinal Native
Olneya tesota	Ironwood	3	Pinal Native
Parkinsonia florida and/or Parkinsonia microphylla	Blue palo verde and/or Foot- hills palo verde	7	Pinal Native











Maintenance Area

Plant	Common Name	#	Notes (native/near/ non)
Baccharis sarothroides	Desert broom	1	Pinal Native
Carnegiea gigantea	Saguaro	8	Pinal Native
Larrea tridentata	Creosote bush	Primary matrix plant	Pinal Native
Opuntia erinacea var. ursina	Grizzly bear or hairy prickly pear	1	Near Native (Texas)
Pachycereus schottii	Senita cactus	5	Arizona Native (Pima County)
Baccharis sarothroides	Desert Broom	13	Pinal Native

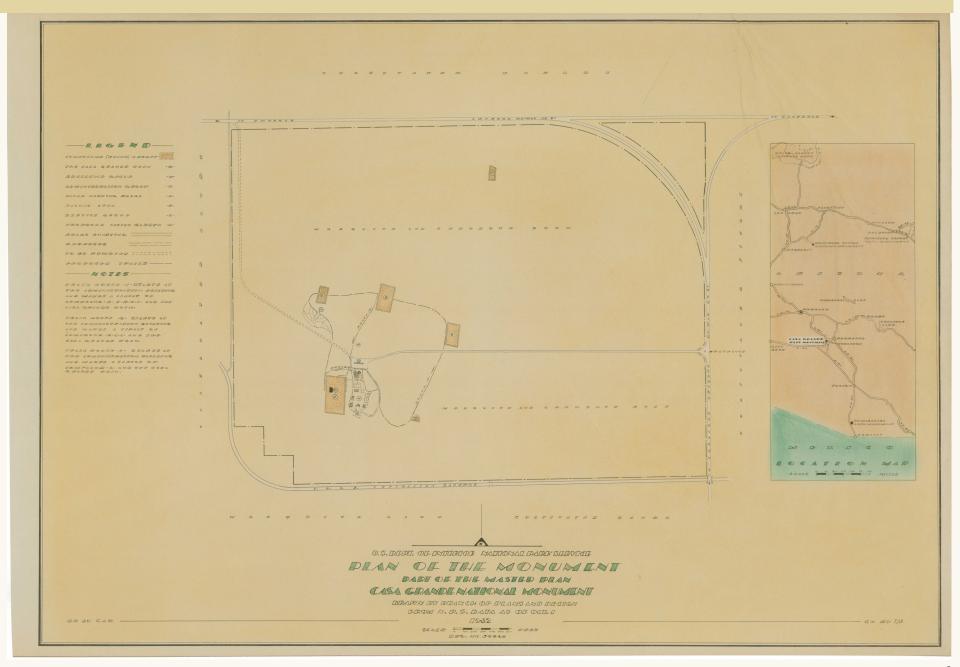


Historic Landscape Plans: 1932 Master Plan

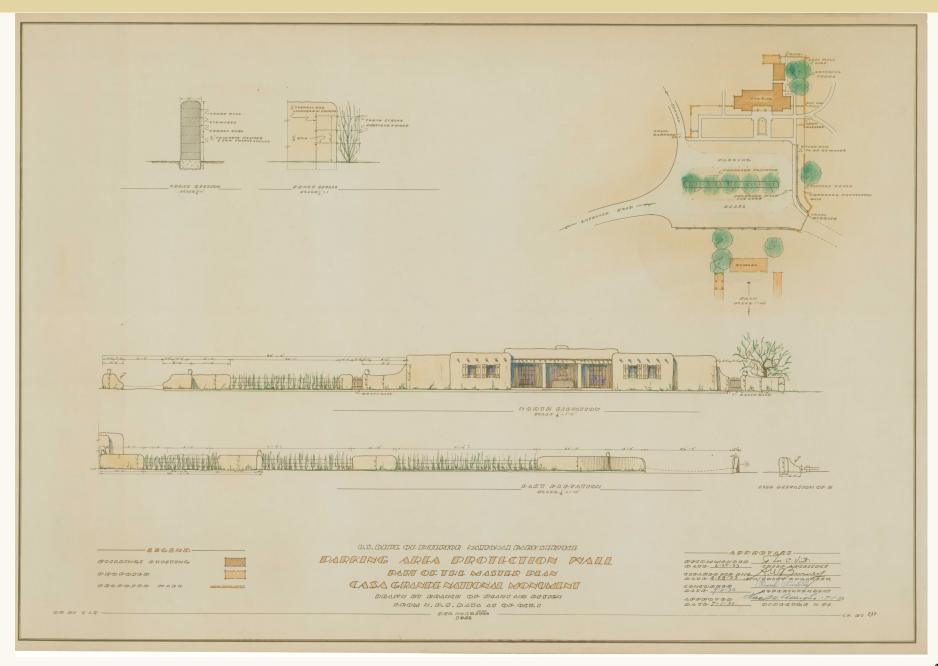
Between 1928 and 1933, NPS landscape architect Thomas C Vint and Southwestern National Monument (SWNM) Superintendent Frank Pinkley drafted a series of master plans for buildings, roads, and signs within the Monument to create the Visitor and Operations Complex. The following slides include the original plans.



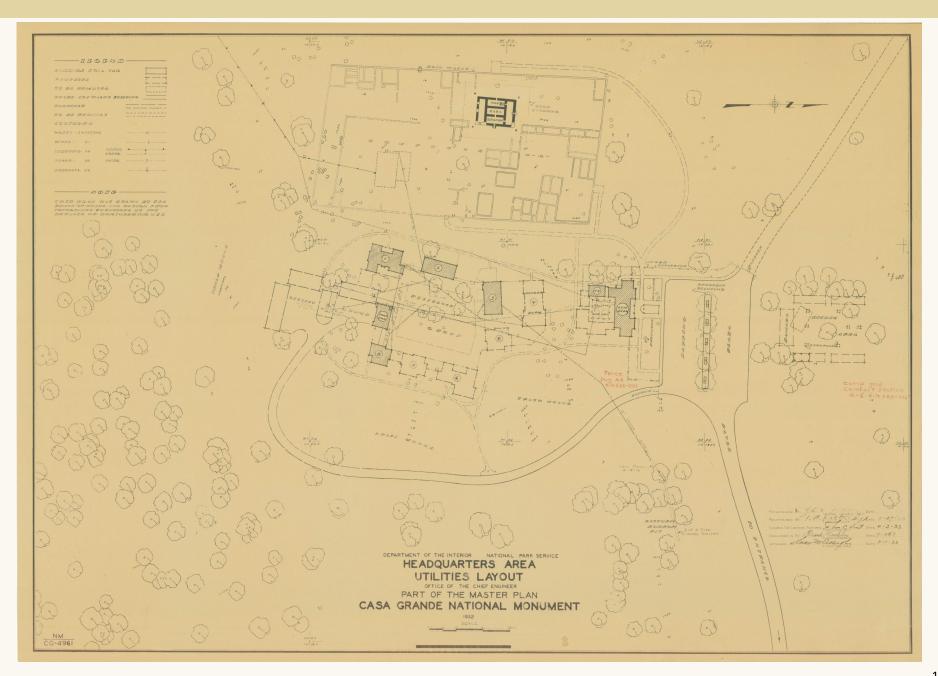
1932 Master Plan



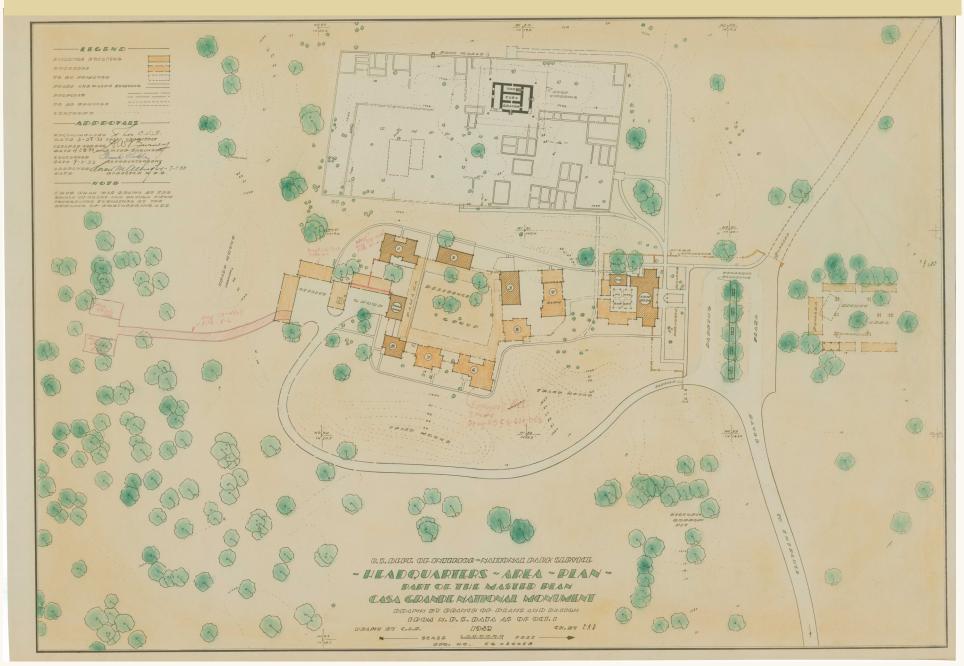
1932 Master Plan



1932 Master Plan

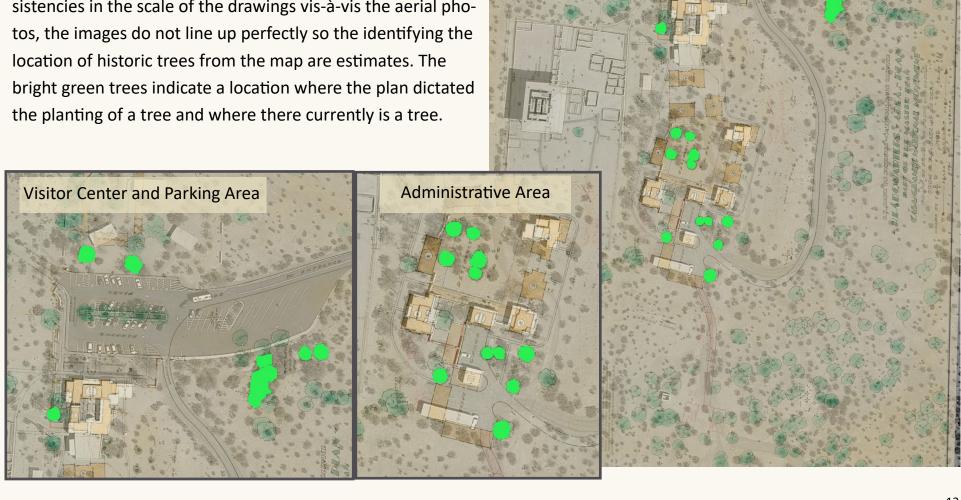


1932 Master Plan: Landscape



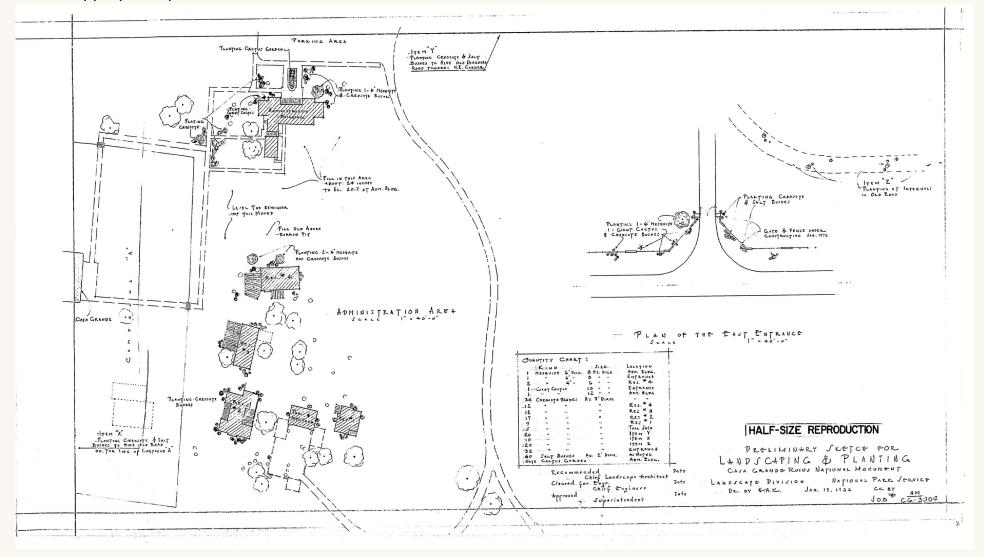
1932 Master Plan Overlay

A comparison of the 1932 master plan with a contemporary aerial photograph (2019) illustrates overlap between the two and can provide a "best guess" as to which plants may have been planted at the time of the original plan. Due to inconsistencies in the scale of the drawings vis-à-vis the aerial pho-



1932 Planting Plan

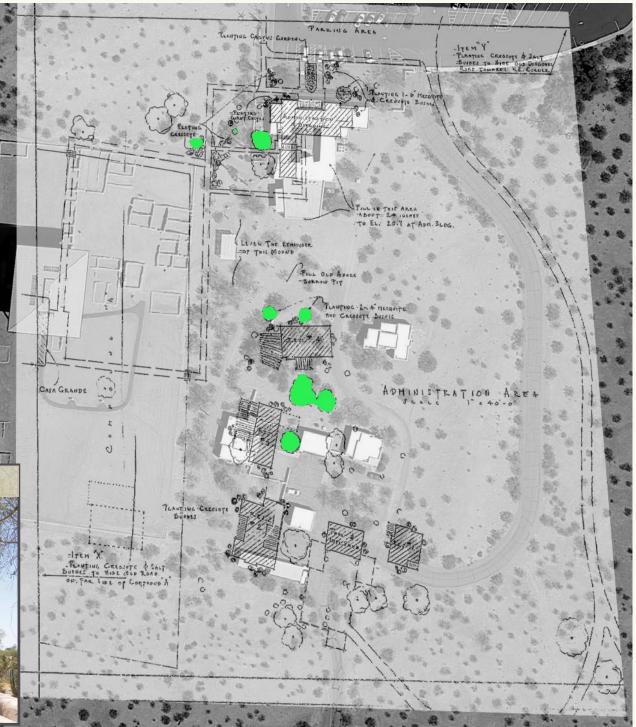
The Landscaping & Planting Plan from 1932 provides specific detail on the plant materials recommended for Casa Grande. These include mesquite trees, saguaro cactus ("giant cactus"), salt bush and a "cactus garden". All are low water use, desert appropriate plants.



1932 Landscape and Planting: Plan Overlay

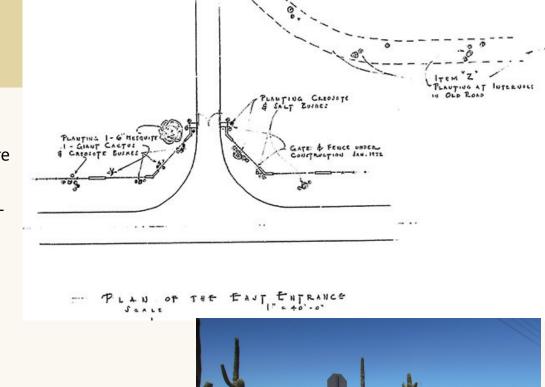
The 1932 Landscape Plan indicates the planned location of mesquite trees, creosote, saguaro cactus, and salt bush. The green shapes indicate the current location of trees, shrubs and a saguaro which matches the locations shown on the plan. Major construction and landscape work was completing during the Mission 66 improvements and likely many of the plants that were installed in the 1930s were removed or relocated during the 1960s.





1932 Landscape and Planting Plan: Monument Entrance

The 1932 Landscape & Planting Plan for the monument entrance called for the installation of a mesquite tree, several creosote bushes and one saguaro cactus. Mature creosote can be found behind the entrance monument wall and may well be from the 1930s period. The saguaro cactus, while mature and likely quite old, do not line up with the location indicated on the plan. It's possible that the planting of the saguaro did not follow the plan or that the existing ones were planted at another time. The mesquite tree is not evident.

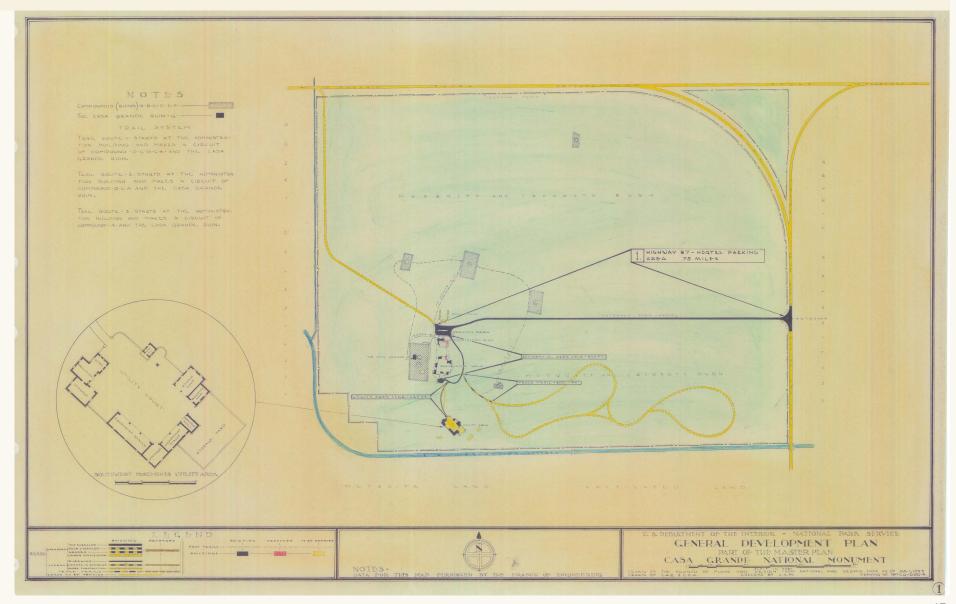




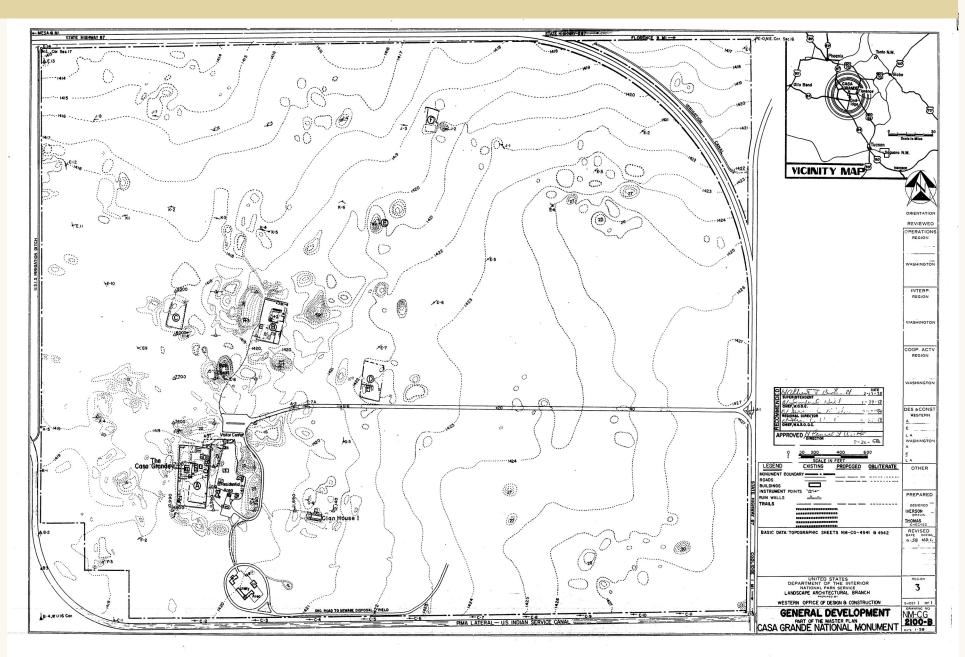
Monument entrance

1958 Plan

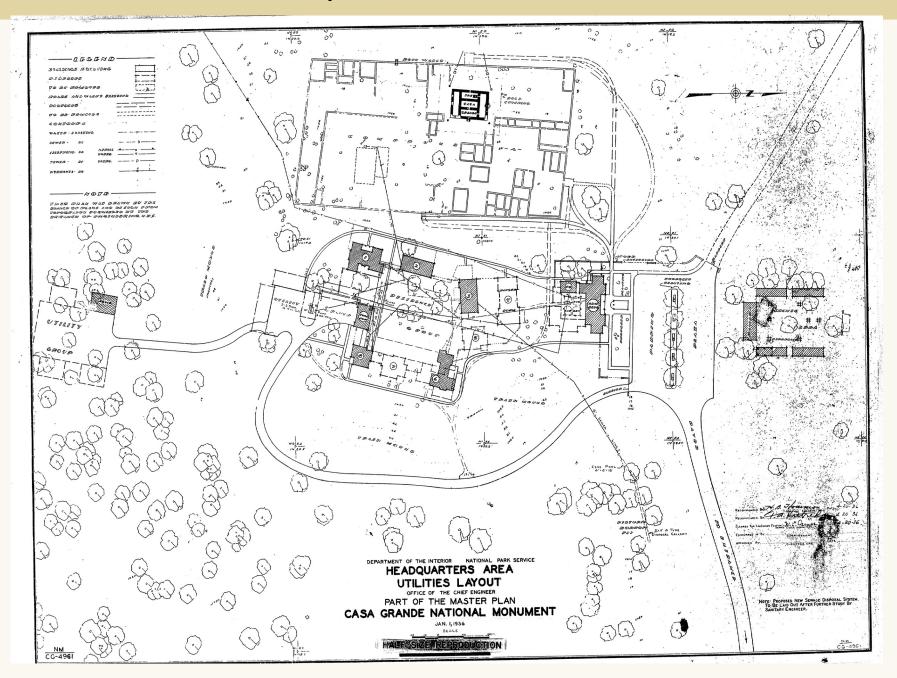
Several plans for Casa Grande Ruins NM during the Mission 66 era involved realignment of circulation routes, expansion of visitor facilities and enhancement of the landscape. The 1958 master plans are included here.



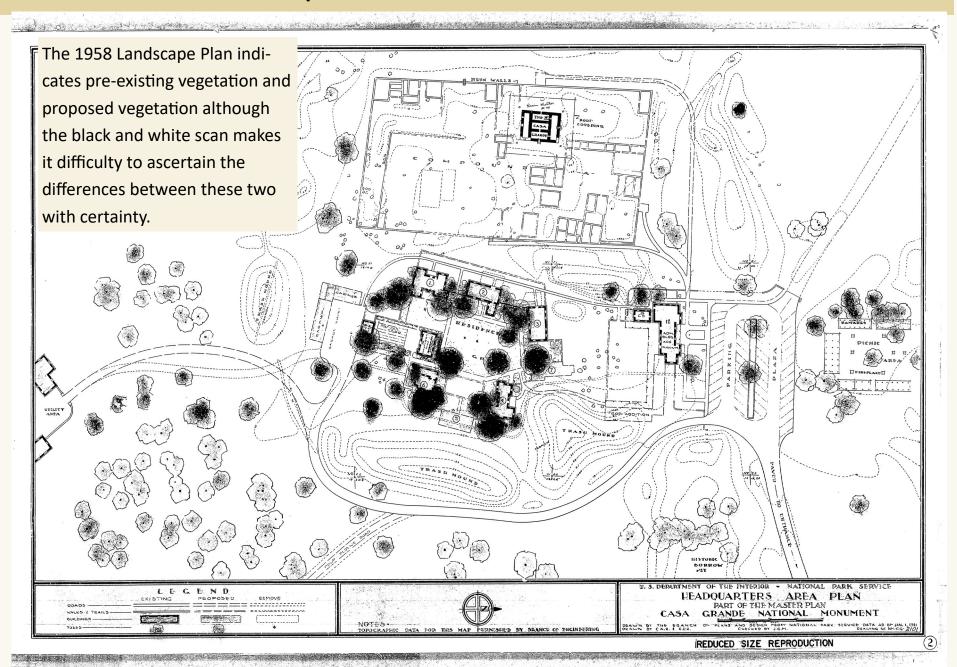
1958 Plan: General Development



1958 Plan: Utilities Layout



1958 Plan: Landscape



1958 Plan: Landscape Plan Overlay

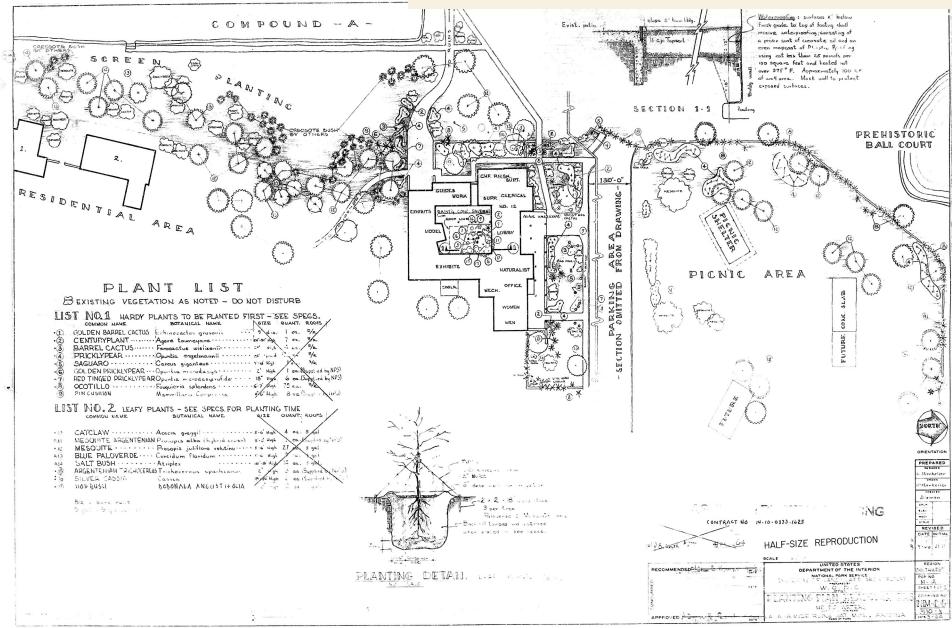
As it was difficult to distinguished pre-existing trees from proposed trees on the 1958 plan due to the black-and-white scans, the location of any trees shown on the plan which roughly correspond with the location of trees on the current aerial photograph are highlighted in green.



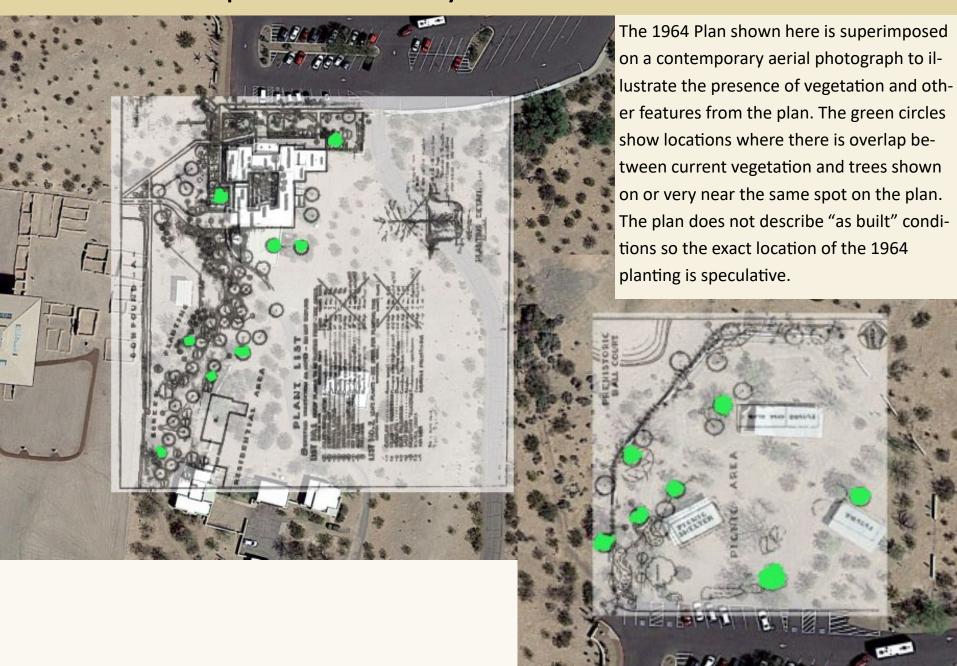


1964 Landscape Plan

The 1964 landscape plan was prepared as part of the NPS Mission 66 program. Improvements included expanding and remodeling the visitor's center, improvements to the picnic area, the installation of new plant materials and enhancement of the picnic area.



1964 Landscape Plan Overlay



Conclusion

The Plant Inventory details landscape plants currently found in the Visitor and Operations Complex, calling out those that are non-native to the area. A review of previous master and landscape plans dating from 1932, 1958 and 1964 illustrate the on-going historic interest in enhancing landscape features in the National Monument. As plans do not necessarily reflect "as built" conditions, a comparison of the location of current mature vegetation with the plans may highlight the existence of historic trees. If the management team wishes to recreate the conditions from a particular historic period, the early landscape plans can be used to provide guidance for the rehabilitation of the landscape.

