



INSTITUTE OF
AMERICAN INDIAN ARTS
2020 Campus Master Plan



A master plan is a dynamic long-term planning document that provides a conceptual layout to guide future growth and development.

IAIA

INSTITUTE OF AMERICAN INDIAN ARTS 2020 Campus Master Plan

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Dyron Murphy Architects would like to thank all staff, faculty, students and board members at the Insititue of American Indian Arts who attended and participated in team meetings and contributed to the development of the 2020 Master Plan by providing valuable information, guidance, data and feedback.

Project Design Team

Dyron Murphy Architects, P.C.





Photo courtesy of IAIA



MISSION

To empower creativity and leadership in Native arts and cultures through higher education, life-long learning, and outreach

VISION

To be the premier educational institution for Native arts and cultures

CORE VALUES

Collaboration

joining together for student success

Excellence

upholding high standards for students, faculty, and staff

Creativity

encouraging fearless expression in arts and life

Respect

fostering an understanding of cultures, perspectives and identities

Integrity

demanding honesty, accountability, and responsibility to oneself and the world at large

Sustainability

being effective stewards of IAIA's financial, human, physical, and natural resources in ways that minimize impact on the environment and ensure the future viability of IAIA

BACKGROUND

The Institute of American Indian Arts (IAIA) was established in 1962 on the Indian School campus in Santa Fe, New Mexico. Under the leadership of Dr. George Boyce, Lloyd Kiva New and others, the Institute embodied a bold and innovative approach to arts education. In 1986, IAIA became a Congressionally chartered college and was charged with the study, preservation and dissemination of traditional and contemporary expressions of Native American language, literature, history, oral traditions and the visual and performing arts. In August 2000, IAIA moved to its current and permanent 140-acre campus site. Throughout the years, the campus has evolved with several buildings to accommodate the expansion of the Institute.

IAIA has a successful history of thoughtful planning the growth of the campus for the future and creating a unique environment that is rooted in traditional Native American perspectives and traditional concepts with modern practices. The original master plan developed in 1993 revolves around the center of the site which became the Dance Circle/Central Plaza and is the meeting point of the four cardinal directions, the solar solstices and the lunar axes. The campus has evolved throughout the years around the concept of this central plaza and these important axes. As the campus continues to grow and evolve, it is critical that these cultural and design planning theories established as part of the original master plan are respected, maintained and incorporated.



2020 CAMPUS MASTER PLAN STUDY

After the completion of the 2010 IAIA Campus Master Plan, the campus has continued to evolve and grow. The Lloyd Kiva New Welcome Center and the Performing Arts and Fitness Center are the latest buildings completed along with various campus and building renovations and upgrades.

In October of 2019, IAIA selected Dyron Murphy Architects to update the 2010 IAIA Campus Master Plan document to reflect and capture all of the changes since its completion. The intent of the new and updated 2020 IAIA Campus Master Plan is to establish a comprehensive direction and vision for the campus and to create a framework for orderly, yet flexible, development in the future while respecting the planning intent of the original master plan. The master plan represents the and demonstrates the present and future needs of the IAIA.

The concept of the 2020 Master Plan continues the design tradition of IAIA and respects the cultural and traditional concepts of Native culture. The master plan continues to evolve around the central plaza or Dance Circle and continues to evolve around various important axes derived from the center of the campus including the solstice lines and the cardinal directions. Cultural grounds and ceremonial structures align with these axes. Proposed building masses and courtyards also respect these principles. Sustainability is an on-going effort by the IAIA and options for solar power and water harvesting are potential principles to be incorporated for sustainable development. The IAIA has been successful in planning, building, creating and supporting a physical environment that is both unique and memorable to the Institute.

Existing Campus Conditions and Analysis

The design team completed a thorough review of the existing campus including buildings and infrastructure. Existing documentation was gathered and used to prepare studies of the existing campus and updated documents of the existing campus were developed. The following campus site drawings were analyzed and documented:

- Campus site plan of existing campus buildings
- Circulation plan of all existing roads, walks and pathways
- Major axes analysis of solstice paths and cardinal directions
- Site topography analysis
- Campus utilities plan
- Solar power analysis

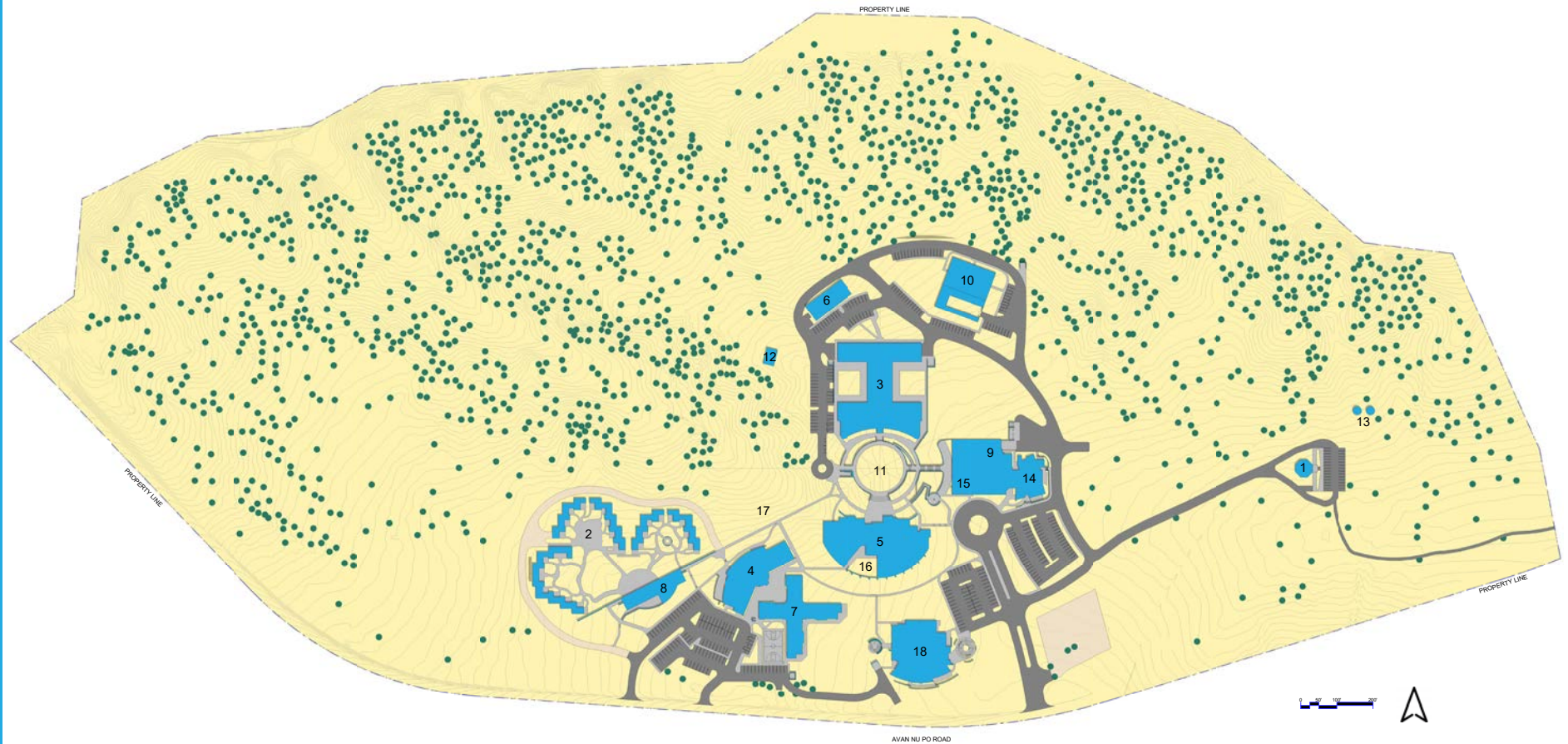
Analysis of IAIA Documentation

The design team also conducted a review of the previous master plan documents completed including the 1993 Campus Master Plan, the 2003 Lifelong Learning Center Master Plan and the 2003 IAIA Initiative for a Sustainable Future. These documents were reviewed to determine which elements, if any, are still applicable to the future development of the IAIA campus and how they can be used for future planning considerations.

New and updated documents such as the Academic Strategic Plan and the Plan '22 documents were also reviewed for aid in the development of the new master plan. As a continued commitment by IAIA towards sustainability, the IAIA Climate Action Plan was also discussed and reviewed.

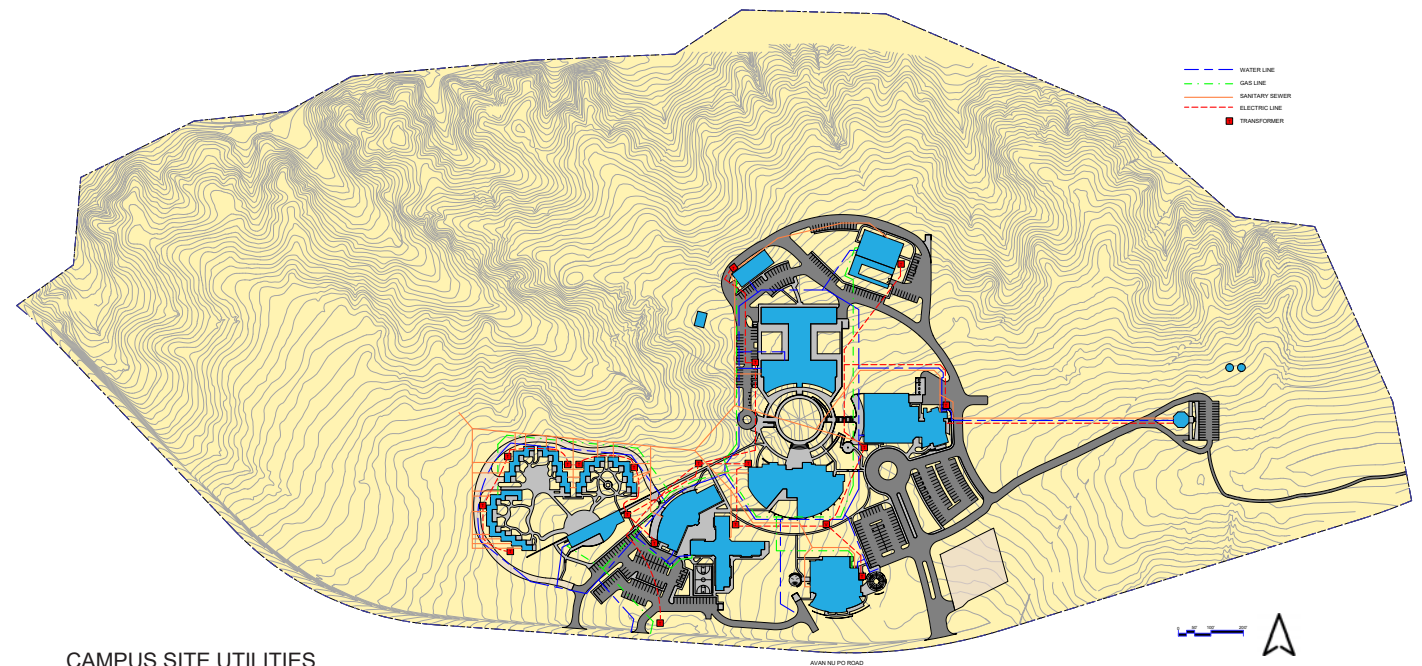
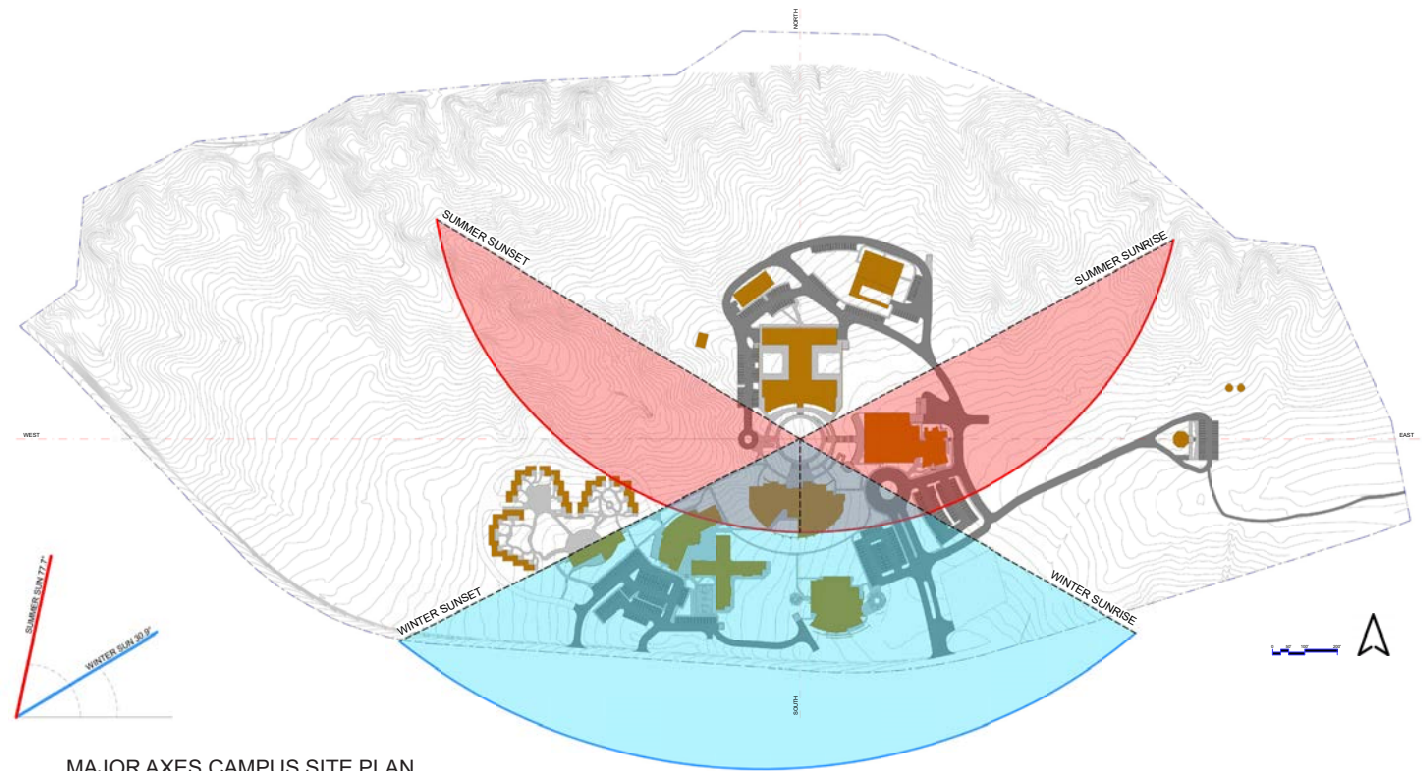
existing campus site plan

The existing campus plan has been developed based on the original master plan completed in 1993 and the updated master plan completed in 2010. The design intent of the various master plans have been maintained by incorporating the four cardinal directions, pedestrian paths and solstice lines/axes. Cultural forms, colors and pattern have also been incorporated.

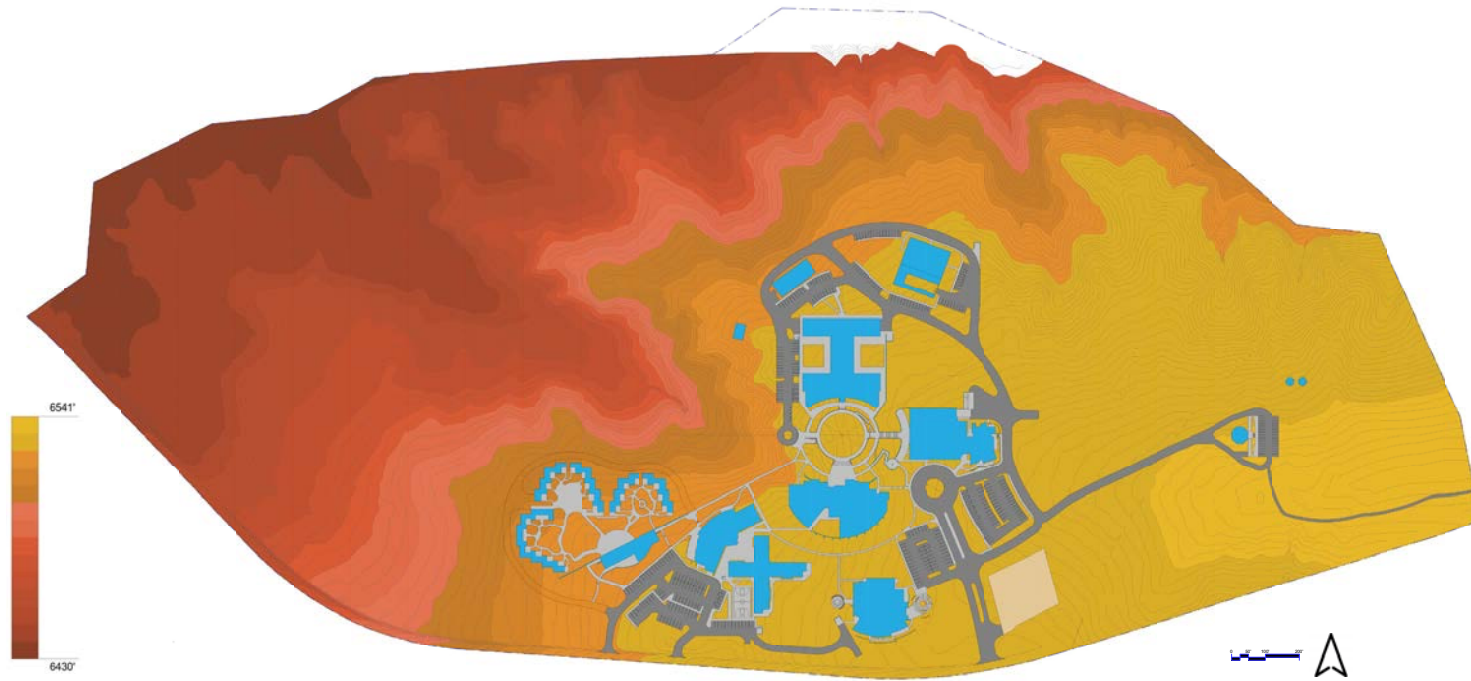


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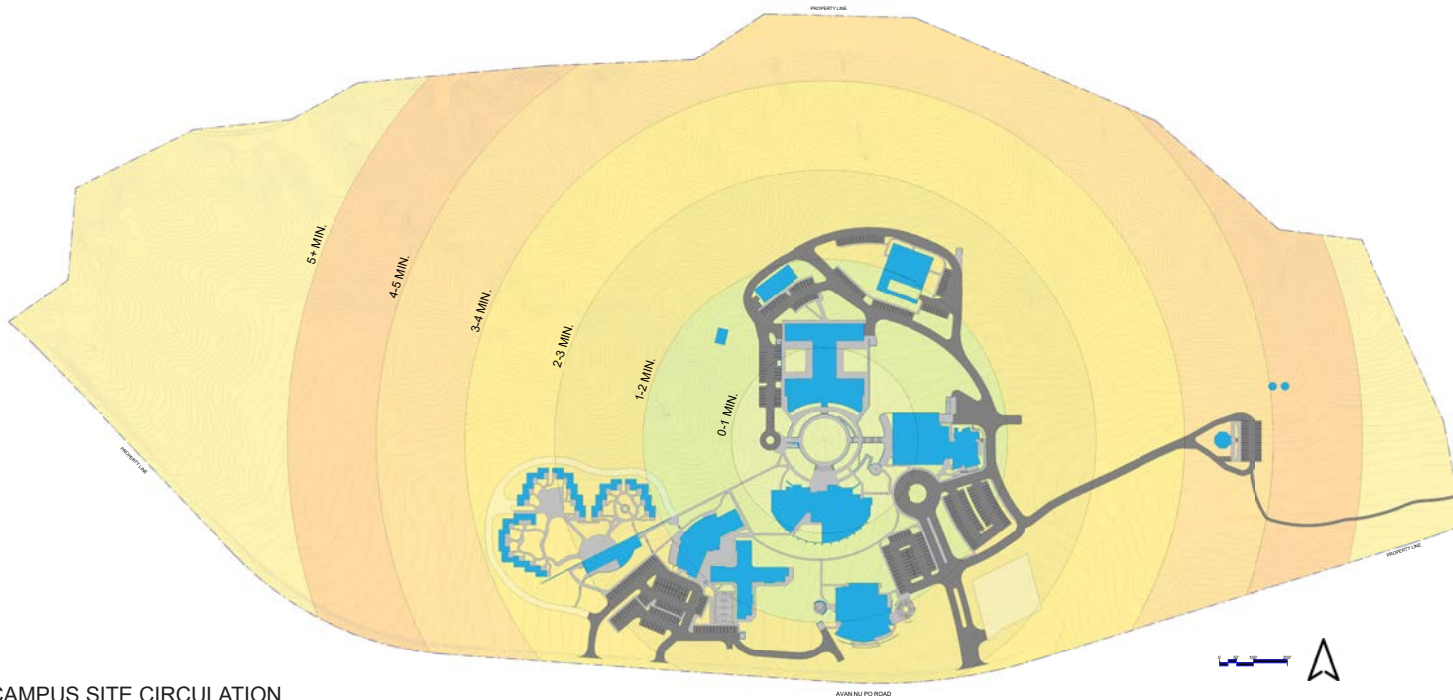
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|------------------------------------------|-----------------------------------------------|
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| 4 Center for Lifelong Education and Cafe | 13 Sweat Lodges |
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| 6 Facilities | 15 Digital Dome |
| 7 Residence Center | 16 Haozous Garden |
| 8 Student Union Building | 17 Land-Grant Garden |
| 9 Ellis Science and Technology Building | 18 Performing Arts and Fitness Center |



The design team engaged in a study of the existing campus. Through numerous on-site field observations and compilation of existing campus documents, the following campus site conditions were analyzed and documented.



CAMPUS SITE TOPOGRAPHY



CAMPUS SITE CIRCULATION

2020 CAMPUS MASTER PLAN DESIGN PROCESS

On October 25, 2019, Dyron Murphy Architects (DMA) and the Institute of American Indian Arts (IAIA) conducted an initial design charrette/visioning meeting with various IAIA staff, faculty, students and board members to discuss the process towards the development and update of the 2020 Campus Master Plan. The discussion started with a brief overview of the 2010 Campus Master Plan and the IAIA Plan '22 document to determine if the two plans are still in alignment to move forward in the coming years. IAIA attendees were asked to provide feedback based on the vision for the next 10 years and provide information on where they would like to see the Institute improve and grow. Through the discussion and a campus space analysis conducted by IAIA, it was determined that additional classroom space is not required at this time. However, studio space and storage for the various arts departments proved to be a strong desire among students and department directors. Safety and security for the existing family housing complex was expressed and IAIA discussed the potential to demolish the existing structures and rebuild with apartment style student housing (single and family). DMA discussed the potential to develop a new mix-use building that would provide studio space and classrooms on the first floor and student housing on the second floor. Due to height restrictions by the covenants, the height of the building would be limited to two-stories. Underground/basement storage would be provided for the additional spaces. DMA presented a similar building type, the UNM Lobo Rainforest, to inform IAIA of the potential of this type of building. IAIA also indicated the desire for a campus loop road for various reasons including safety, security, accessibility and access by emergency vehicles.

As a result of the feedback provided, DMA developed two preliminary conceptual campus master plans designs. These conceptual designs incorporate the ideas of the original 1993 master plan, the 2010 master plan and the feedback received at the design charrette/visioning meeting. The conceptual campus master plan designs were provided to IAIA for review and initial feedback.

Upon IAIA's review of the initial preliminary campus master plan designs, IAIA and DMA discussed the options and the feasibility of each design. During the discussion, it was determined that new construction for various departments would be difficult to complete due to existing available space

throughout the campus. IAIA recently completed various space analysis studies and found that existing spaces are not being used to their full capacity and other spaces are available to be renovated and repurposed to meet the current needs. As a result, DMA modified the preliminary campus master plan concepts to reflect these discussions.

On November 15, 2019, DMA and IAIA reconvened to discuss the preliminary conceptual campus master plan designs. Feedback and discussions for each of the concepts was provided and advantages and disadvantages were noted. Consensus on priorities for the campus were also discussed. At this meeting, it was reinforced that the IAIA campus was not looking into new building developments, with the exception of the proposed new mixed-use building which would include student housing, studio spaces and storage. In addition, sustainability continues to be a priority and ways to enhance the campus with sustainable features were also discussed. At this meeting, it was once again reinforced that IAIA is looking to re-purpose and remodel existing building spaces to meet the needs of the current programs and curriculum.

Three additional master plan concepts were developed by DMA as a result of the feedback received at the November 2019 design charrette. The revised concepts focused on the development of the mix-use building, the loop road and the sustainability of the campus. The concepts were presented at the February 2020 design charrette to receive additional information and to receive direction towards the final master plan concept.

On February 14, 2020, DMA attended the board meeting and the revised master plan concepts were presented and discussed. Various advantages and disadvantages of each concept were noted and proposed revisions were also discussed. At the conclusion of the meeting, the board and IAIA voted to proceed with concept D but with the proposed minor revisions noted during the meeting.

On May 16, 2020, DMA attended IAIA's virtual board meeting. The updated and revised conceptual site plan was presented to both IAIA and the board. The conceptual site plan was presented and discussed and the board voted to approve the final design.

PRELIMINARY CONCEPT A: CAMPUS MASTER PLAN DESIGN DESCRIPTION

Concept A was developed with the intent of maintaining the vision and ideas of the original 1990s Campus Master Plan by respecting the various axes, which formed the basis for the planning of the campus. The main entry drive has been relocated following the winter sunrise solstice axis and providing a roundabout which allows access to various parts of the campus. The new orientation of the entry drive emphasizes a strong connection to the center dance circle as visitors enter the campus. A physical obelisk/marker, intended to promote Native Arts, is proposed near the main entry along the winter sunrise solstice axis to greet visitors and enhance and define the main entrance of the campus and making a statement about the Institute's image and identity. The existing shared parking between the Lloyd Kiva New and the Performing Arts and Fitness Center has been modified to allow for the new drive. A new multi-purpose field/pow wow arena is proposed to the east of the Performing Arts and Fitness Center to provide a connection with the physical education program located inside the building. The location also helps to emphasize a connection with the community and keeps traffic from infiltrating the campus.

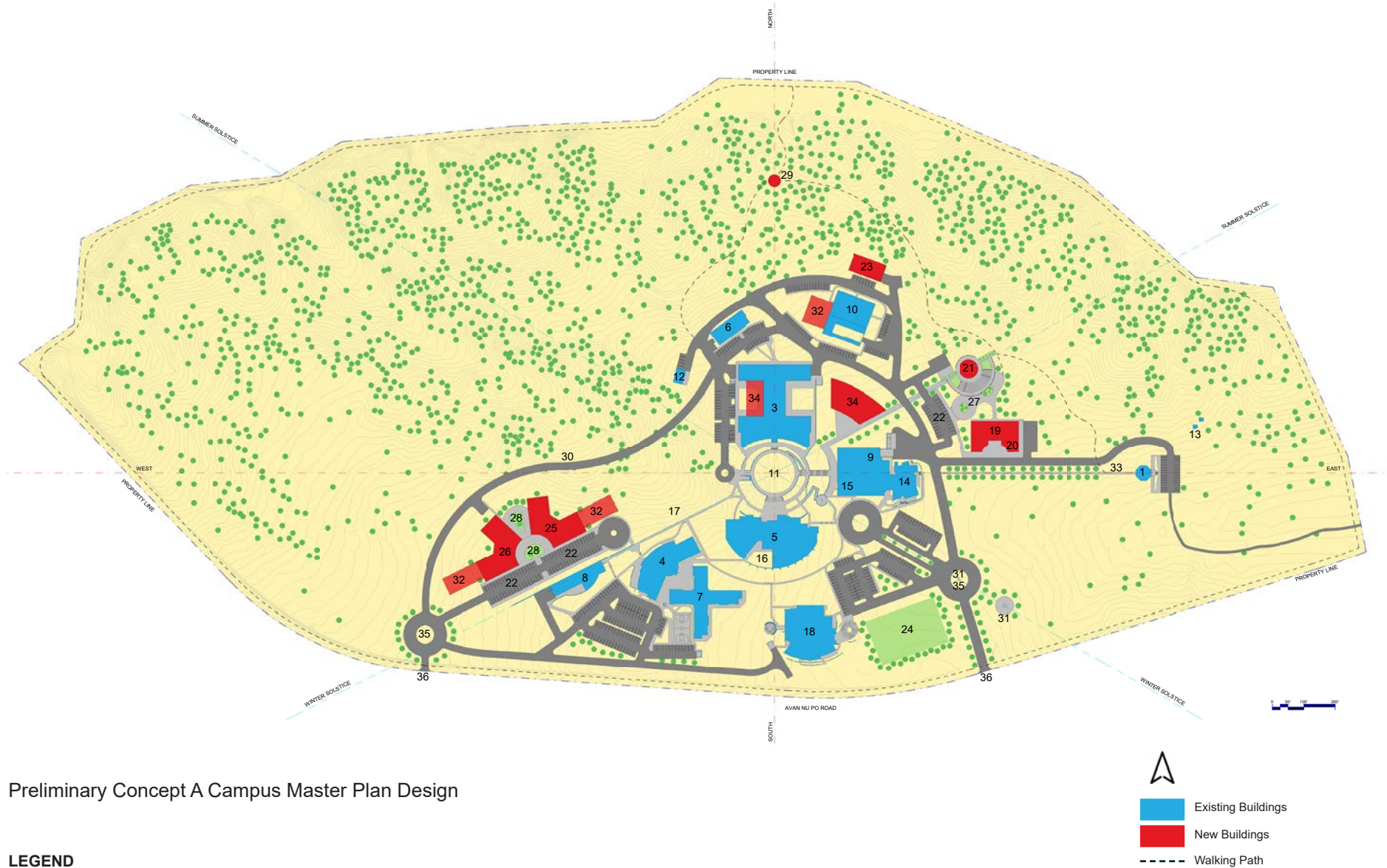
The visual connection between the main dance circle and the Hogan is further emphasized and enhanced with a physical connection. A new and landscaped walk path will connect the center of the campus to the Hogan. The walk path will follow the East direction axis and will be lined with vegetation including trees to provide shade for pedestrians. Along the walk path between the Lloyd Kiva New Welcome Center and the Hogan, a circular courtyard will connect to a new Sound Stage Building to the north which will define the main and formal entrance on the south. North of the new Sound Stage Building will be an outdoor amphitheater that steps down with the natural grade in this area. A central courtyard will unify the new building and the new outdoor space. The location of the amphitheater will allow for a connection and the function of the proposed Sound Stage Building. The center stage of the amphitheater will be aligned with the summer sunrise solstice axis. A new service drive adjacent to the walk path will be provided for vehicular access to the Hogan and also to a service area/yard as part of the Sound Stage Building to deliver prop, stages, costumes, equipment, etc. Additional parking will be provided for the new building and amphitheater. In the area north of the Science and Technology Building and the east of the Academic Building, there is an open area that has potential to be developed and is in close proximity to the core of the campus. This area can be used for

a new proposed research and archive building. This space is currently being identified as an addition to the Academic Building on the west courtyard side of the building. Utilities are within close proximity of the area and were placed there as part of the development of the Lloyd Kiva New Welcome Center with the intent to provide a connection for a future building.

The existing Facilities building is proposed to be repurposed and converted into a warehouse/storage space for the various art departments. A new Facilities building is proposed north of the Sculpture and Foundry building with a new service drive and additional parking. The Sculpture and Foundry building has the potential to be extended to the area west of the building to provide additional required outdoor space. On the north side of the campus, a meditation/wikiup area will be defined to create a quiet space to be used by students, faculty and staff.

At the existing location of the Family Housing, IAIA expressed the desire to demo the existing structures and redesign this area. A new mix-use building complex which would provide classrooms, studio spaces, storage and apartment-style student housing is proposed at this location. A two-story building would provide education/teaching rooms, studio spaces and multi-functional rooms such as studios, galleries and conference rooms on the first floor and student housing on the second floor. Private and secure outdoor spaces are provided for each wing of the new building. The Family Housing wing of the complex would provide a private and secure courtyard and playground for families. A central courtyard would separate the two building structures and still provide a common space and serve as the main entrance to the complex. Seating areas and study areas would be provided in this space. A new parking area is proposed to allow students to park near the housing complex to ensure safety and security.

A new loop road is proposed around the existing campus. During discussions held at the initial design charrette, IAIA emphasized the need for a loop road around the campus for various reasons including safety and access. A new campus entry drive is also proposed on the west side of the campus near the new studio space/family housing complex. The parking area south of the Center for Lifelong Education (CLE) and the existing dormitories is proposed to be reconfigured and the entry drive to be relocated.



Preliminary Concept A Campus Master Plan Design

LEGEND

- | | | | |
|------------------------------------------|-----------------------------------------------|--------------------------------------------------------|-----------------------------|
| 1 Hogan | 10 Allan Houser Haozous Sculpture and Foundry | 19 Sound Stage Building | 28 Courtyard |
| 2 Family Housing (Demo Existing) | 11 Dance Circle | 20 Shop/Storage | 29 Meditation Area/Wikiup |
| 3 Academic Building | 12 Green House | 21 Outdoor Amphitheater | 30 Campus Loop Road |
| 4 Center for Lifelong Education and Cafe | 13 Sweat Lodges | 22 Parking | 31 Native Obelisk/Marker |
| 5 Library and Technology Building | 14 Lloyd Kiva New Welcome Center | 23 Facilities | 32 Future Expansion |
| 6 Renovated Warehousing/Studio Storage | 15 Digital Dome | 24 Multi-Purpose Field/Pow Wow Arena | 33 Walk Path |
| 7 Residence Center | 16 Haozous Garden | 25 Mix-Use Building (Classrooms/Studios/Resident Hall) | 34 Future Research Building |
| 8 Student Union Building | 17 Land-Grant Garden | 26 Mix-Use Building (Classrooms/Studios/Resident Hall) | 35 Roundabout |
| 9 Ellis Science and Technology Building | 18 Performing Arts and Fitness Center | 27 Plaza | 36 Main Campus Entry |

PRELIMINARY CONCEPT B: CAMPUS MASTER PLAN DESIGN DESCRIPTION

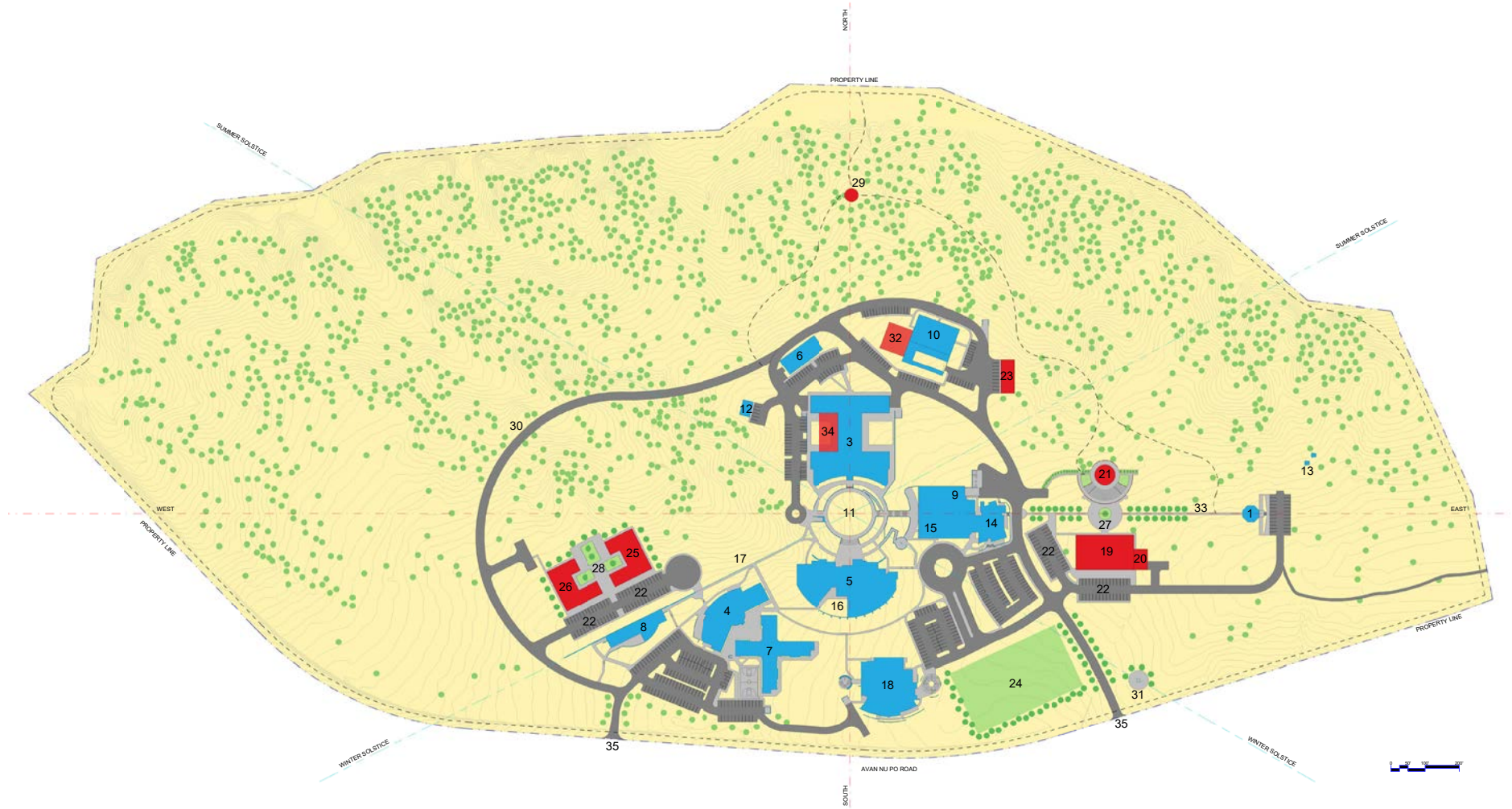
Concept B also respects the intent and ideas of the original master plan. The main entry drive has been relocated further east to align with the existing road and create a new loop road around the campus. To the west of the new entry drive and east of the Performing Arts and Fitness Center, a multi-purpose field/pow wow arena is proposed. The location of the field will allow students of the physical education program to extend the curriculum to outdoor activities due to the close proximity to the building. A native obelisk and marker is proposed immediately adjacent to the main entry drive to enhance and define the entrance to the campus and make a statement about the Institute's image and identity. A Sound Stage Building that provides spaces for various arts programs is proposed on the east of the campus between the Hogan and the Lloyd Kiva New Welcome Center. Parking will be located on the south side of the building and will provide a new access road to the Hogan. A new pedestrian walk to the Hogan from the Lloyd Kiva New Welcome Center will enhance and emphasize the connection of the Hogan to the center of the campus at the Dance Circle. The pedestrian walk path will include benches and landscape to create a defined walk. A circular courtyard/plaza along the walking path will connect to an outdoor amphitheater and create a gathering space during events at the amphitheater and provide a welcoming entrance. The amphitheater will follow the natural grade and step down to a circular stage.

The existing facilities building is planned to be converted to storage space for the various art departments. A new Facilities building is proposed to be located to the south-east of the Sculpture and Foundry Building. The Sculpture and Foundry Building has the potential to expand and grow to

the west to provide additional indoor and/or outdoor space. IAIA is currently planning to extend the existing Academic Building on the west side and adding space for a new research facility. A meditation/wikiup area will be located on the north side of the campus away from the buildings and roads to create a quiet outdoor space. A walking trail will guide students to the meditation area.

On the west side of the site, IAIA is considering the demolition of the existing Family Housing complex due to various issues. A new mix-use building is intended to replace the existing housing. The new mix-use building and complex will provide classrooms, studio space and storage along with gallery space, conference rooms, instructional rooms and study rooms on the first floor and student housing on the second floor. The building will be divided into two separate structures and one wing will provide apartment-style family housing along with private and secure courtyards with playground equipment. The other wing will also provide apartment-style student housing for single students. A central courtyard will unite the two wings and also function as the primary and formal entrance. New and an adjacent parking area will be provided to serve the new mix-use building and enhance safety and security for students living in the housing portion of the building.

A new proposed loop road will extend around the entire campus and will extend further north-west to work with the existing topography in the area. The loop road is desired by IAIA to provide a safer and easier access to all of the buildings throughout the campus. The new loop road will connect back to the relocated entry drives into the campus.



Preliminary Concept B Campus Master Plan Design

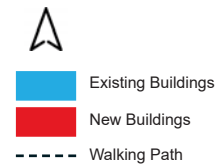
LEGEND

- 1 Hogan
- 2 Family Housing (Demo Existing)
- 3 Academic Building
- 4 Center for Lifelong Education and Cafe
- 5 Library and Technology Building
- 6 Renovated Warehousing/Studio Storage
- 7 Residence Center
- 8 Student Union Building
- 9 Ells Science and Technology Building

- 10 Allan Houser Haozous Sculpture and Foundry
- 11 Dance Circle
- 12 Green House
- 13 Sweat Lodges
- 14 Lloyd Kiva New Welcome Center
- 15 Digital Dome
- 16 Haozous Garden
- 17 Land-Grant Garden
- 18 Performing Arts and Fitness Center

- 19 Sound Stage Building
- 20 Shop/Storage
- 21 Outdoor Amphitheater
- 22 Parking
- 23 Facilities
- 24 Multi-Purpose Field/Pow Wow Arena
- 25 Mix-Use Building (Classrooms/Studios/Resident Hall)
- 26 Mix-Use Building (Classrooms/Studios/Resident Hall)
- 27 Plaza

- 28 Courtyard
- 29 Meditation Area/Wikiup
- 30 Campus Loop Road
- 31 Native Obelisk/Marker
- 32 Future Expansion
- 33 Walk Path
- 34 Future Research Building
- 35 Main Campus Entry



MODIFIED CONCEPT A + B: CAMPUS MASTER PLAN DESIGN DESCRIPTION

The modified campus master plans for both concepts A + B, evolved from a discussion between DMA and IAIA. During the conversation, it was noted that the feasibility for constructing new facilities for certain programs such as the visual arts would be complicated and difficult to justify considering that a recent campus capacity analysis conducted by IAIA indicates that there are various classroom spaces throughout the campus that are not used at all times. The campus space analysis found that for the 2018/2019 academic year, the average course enrollment is 69.5% of stated capacity and classroom space is utilized for instruction 32.5% of the time. The analysis also found that there was a marked decrease in enrollment from the fall to spring semesters while simultaneously, an increase in classroom utilization. Due to the data and results, funding for additional spaces would be difficult to justify and obtain from the funding sources. As a result, the Sound Stage Building was determined to not be a feasible direction for the campus growth at this time.

The outdoor amphitheater was discussed and noted that it is difficult to justify as well due to the location of the Institute in relation to I-25 and the proximity to Santa Fe and bringing visitors to this location. The usage of this space would be limited to the seasons and weather and would only be used at limited times of the year. Therefore, development of the amphitheater would not be justified and effective. The amphitheater was revisited from the previous 2010 Campus Master Plan.

As a result of the discussions between DMA and IAIA, Concept A + B were updated and revised. The updated campus master plans delete the amphitheater and the Sound Stage Building and the required parking and service areas. The plaza connecting both spaces was also deleted.

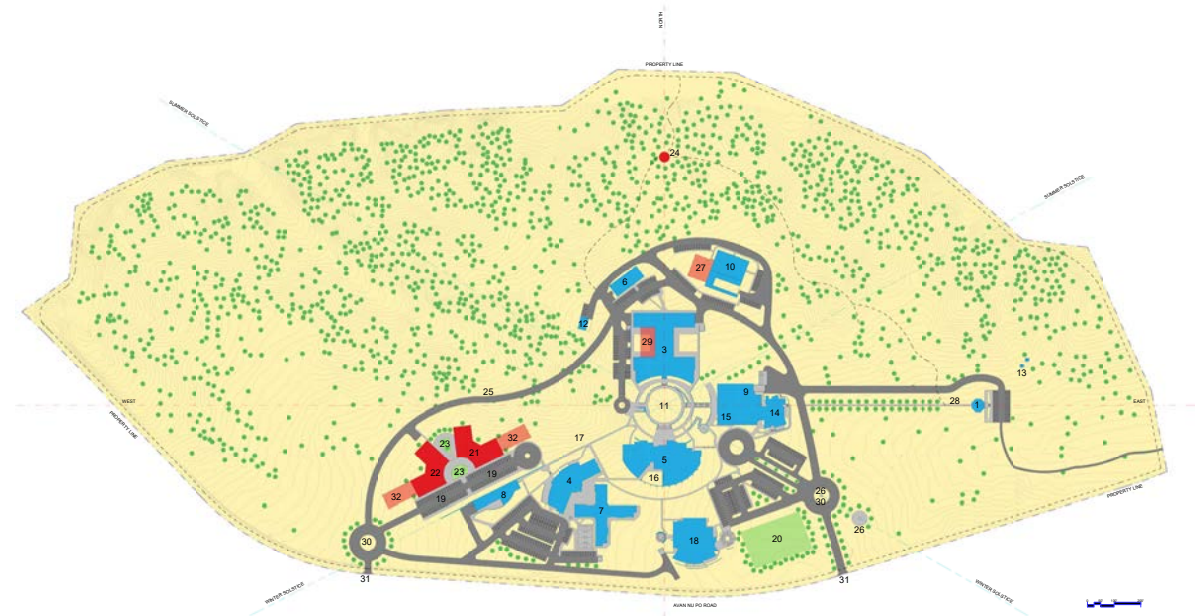
As a result of the campus capacity analysis completed by IAIA and per the review of the initial Concept A + B Campus Master Plan designs, it was determined that the growth of the campus would be more efficient if existing building spaces were utilized more and existing spaces are to be remodeled and upgraded to serve the needs of the Institute. An example of this would be to update the auditorium located in the existing Library and Technology building to serve the needs of various departments. Other renovations and updated spaces were completed by IAIA in the Academic Building and studio spaces were created where the old administration was housed. It is important and critical that when existing spaces are renovated to serve a new function, that these new spaces are thoroughly thought out and analyzed. Existing infrastructure and finishes may need to be revised and updated to reflect the new needs of the space.

In a separate space analysis completed by IAIA for the Performing Arts and Fitness Center and the Sculpture and Foundry Building, there is a demand for additional storage for the performing arts department in the PAFC. There are spaces in the building that are not being utilized and are vacant at most times. The demand at the Sculpture and Foundry Building is also additional storage as well as for student art work and space for glass working studios. In addition, the 2020 campus master plans identify a potential location for the expansion of the Sculpture and Foundry Building to provide these additional spaces.

Per the space analysis studies completed for various buildings, there appears to be potential areas for repurposing spaces to meet the required needs of the various programs.

LEGEND

- 1 Hogan
- 2 Family Housing (Demo Existing)
- 3 Academic Building
- 4 Center for Lifelong Education and Cafe
- 5 Library and Technology Building
- 6 Facilities
- 7 Residence Center
- 8 Student Union Building
- 9 Ellis Science and Technology Building
- 10 Allan Houser Haozous Sculpture and Foundry
- 11 Dance Circle
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- 17 Land-Grant Garden
- 18 Performing Arts and Fitness Center
- 19 Parking
- 20 Multi-Purpose Field/Pow Wow Arena
- 21 Mix-Use Building (Classrooms/Studios/Resident Hall)
- 22 Mix-Use Building (Classrooms/Studios/Resident Hall)
- 23 Courtyard
- 24 Meditation Area
- 25 Campus Loop Road
- 26 Native Obelisk/Marker
- 27 Future Expansion
- 28 Walk Path
- 29 Future Research Building
- 30 Roundabout
- 31 Main Campus Entry



Modified Concept A Campus Master Plan Design

LEGEND

- 1 Hogan
- 2 Family Housing (Demo Existing)
- 3 Academic Building
- 4 Center for Lifelong Education and Cafe
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- 7 Residence Center
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- 30 Future Research Building
- 31 Main Campus Entry



Modified Concept B Campus Master Plan Design

CONCEPT C + D + E: CAMPUS MASTER PLAN DESIGN DESCRIPTION

Concepts C + D + E were developed from the feedback received by IAIA students, staff, faculty and the board members at the November 2019 design charrette. It was reinforced at this time, that it would be difficult to justify the expansion of the campus with new buildings to accommodate the programs and curriculum based on the various studies conducted by IAIA. However, the development of the proposed mixed-use building which would include, classrooms, studio spaces and student housing (single and family) is still an option to be considered. IAIA noted the high expense of maintenance and security issues with the existing family housing and the desire to replace the various existing family housing buildings. DMA studied various building orientation layouts to determine the best placement based on security, privacy, and access while still respecting the overall design concept and maintaining a connection to the central courtyard. The location on the site allows easy access to other student facilities such as the cafeteria and student union building.

Sustainability was also discussed and included as part of the revised concepts. It is the intent of IAIA to maximize the roof areas of existing buildings with photovoltaic panels to provide solar energy. In addition, DMA studied the existing infrastructure including the storm drain system to

provide potential locations for underground cisterns and allow for roof water harvesting. The water collected from the cisterns would be used to provide irrigation water for existing landscape areas as well as new landscape areas and gardens to be developed.

The importance and significance of the Hogan located on the eastern part of the site was also discussed. The aesthetic and functionality of the Hogan was questioned and expressed to be demolished. However, per feedback from students and staff, the Hogan was also noted to be an important landmark that is part of the origins of the Institute and expressed that it should remain. From a cultural, planning and design perspective, the Hogan is a major landmark and holds an important cultural significance as part of the overall campus design concept. As part of the revised concepts, the connection of the Hogan to the rest of the campus was minimized. However, due to pedestrian access, lighting and a safe walking path is proposed. A new compacted gravel path along with solar lighting is proposed. A gravel courtyard with seating would break up the long path to the Hogan and shade structures with photovoltaic panels would provide both shade and power to illuminate the path.

LEGEND

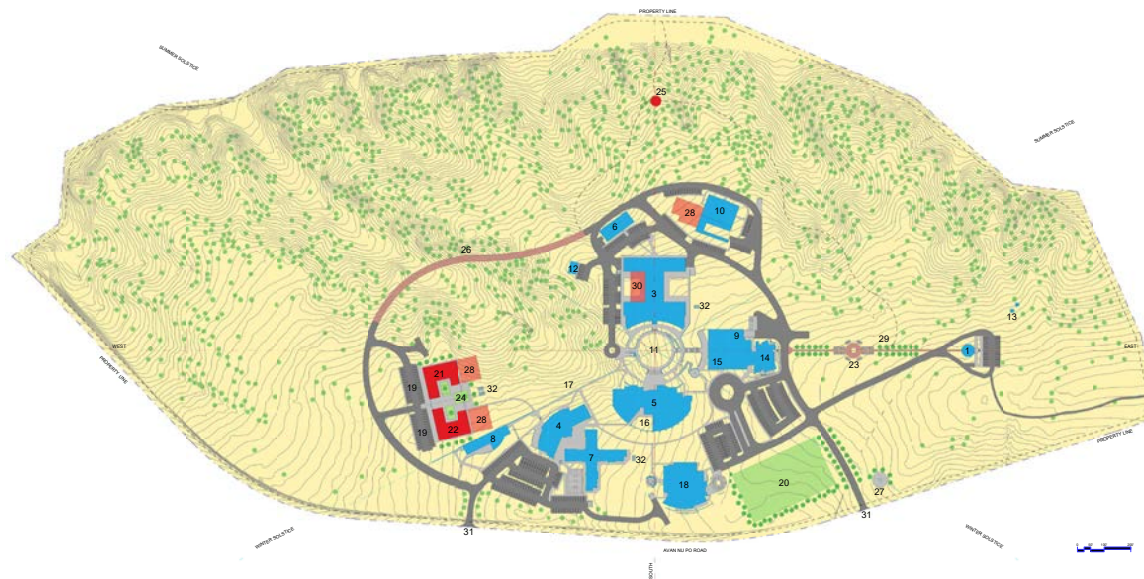
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- 21 Mix-Use Building (Classrooms/Studios/Resident Hall)
- 22 Mix-Use Building (Classrooms/Studios/Resident Hall)
- 23 Courtyard
- 24 Meditation Area
- 25 Campus Loop Road (Compacted Gravel Surface)
- 26 Native Obelisk/Marker
- 27 Future Expansion
- 28 Gravel Walk Path with Solar Lighting
- 29 Future Research Building
- 30 Roundabout
- 31 Main Campus Entry
- 32 Underground Cistern (Irrigation)



Concept C Campus Master Plan Design

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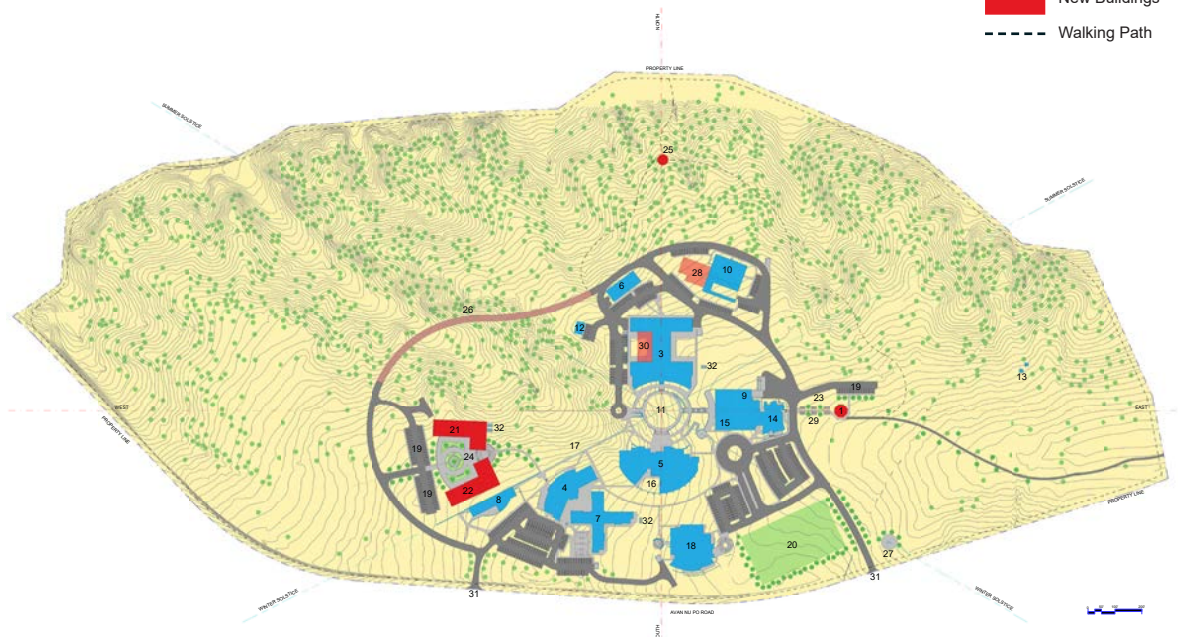
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- 23 Plaza with PV Panel Shade Structures
- 24 Courtyard
- 25 Meditation Area
- 26 Campus Loop Road (Compacted Gravel Surface)
- 27 Native Obelisk/Marker
- 28 Future Expansion
- 29 Gravel Walk Path with Solar Lighting
- 30 Future Research Building
- 31 Main Campus Entry
- 32 Underground Cistern (Irrigation)



Concept D Campus Master Plan Design

LEGEND

- 1 Hogan
- 2 Family Housing (Demo Existing)
- 3 Academic Building
- 4 Center for Lifelong Education and Cafe
- 5 Library and Technology Building
- 6 Facilities
- 7 Residence Center
- 8 Student Union Building
- 9 Ellis Science and Technology Building
- 10 Allan Houser Haozous Sculpture and Foundry
- 11 Dance Circle
- 12 Green House
- 13 Sweat Lodges
- 14 Lloyd Kiva New Welcome Center
- 15 Digital Dome
- 16 Haozous Garden
- 17 Land-Grant Garden
- 18 Performing Arts and Fitness Center
- 19 Parking
- 20 Multi-Purpose Field/Pow Wow Arena
- 21 Mix-Use Building (Classrooms/Studios/Resident Hall)
- 22 Mix-Use Building (Classrooms/Studios/Resident Hall)
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Concept E Campus Master Plan Design

SUSTAINABILITY

IAIA is committed to adopt and practice the principles of sustainability and continues to make this a priority. On September 30, 2010, the IAIA President signed the American College and University Presidents Climate Commitment. The commitment requires the development of a plan to achieve a carbon neutral campus plan by following and achieving 14 interactive fronts. The time frame to achieve a carbon-neutral plan is 2050. As a result of IAIA's commitment to sustainability, the Institute has adopted the "IAIA Climate Action Plan (Spring 2013)." In addition, DMA presented the American Institute of Architects (AIA) 2030 Commitment, which is a breakthrough vision that calls for all new buildings, developments and major renovations to be carbon-neutral by 2030.

As part of the IAIA's commitment, all new buildings completed in the recent years have been designed with sustainable practices including principles established by the Leadership in Energy and Environmental Design (LEED). Existing building systems are currently being upgraded with LED lighting and new and efficient HVAC units are being installed to replace existing and outdated units. In addition, photovoltaic solar panels are being installed at various buildings to reduce energy consumption with renewable energy resources. The intent and vision for IAIA is to include photovoltaic solar panels on all existing and new buildings.

As part of the development of the 2020 Campus Master Plan, there are opportunities to expand the use of renewable energy particularly photovoltaic solar panels. At locations where new pedestrian walkways are developed throughout the campus along the major axes, seating areas and small plazas can be developed with structures that can hold the PV panels and provide shade to users. The energy gathered from these PV panels can be used to illuminate parking areas or walk way paths improving the overall safety of the campus with minimal to zero additional energy consumption.

Rain water harvesting is another opportunity for IAIA to enhance their sustainability practices. The majority of all buildings currently on the campus are connected to a storm sewer system and all water is collected at a central point. There are various locations on the existing site where the storm drain system can be intercepted and underground cisterns can be installed. The water collected can be used to water the existing landscape or new landscape areas and minimize the overall water consumption of the campus.

Sustainability, through the development of the IAIA campus, resources and its' buildings, continues to be a major priority for the IAIA and all future developments as part of the campus growth should take sustainable practices into consideration and practices need to be included and incorporated.

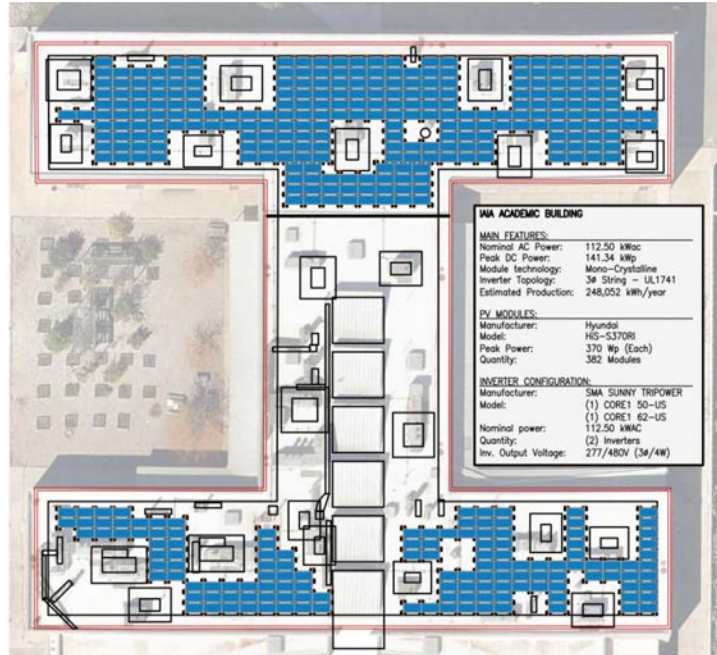
SOLAR POWER ANALYSIS

DMA worked along with Affordable Solar to perform a solar study analysis of the existing campus. The analysis reviewed the existing roof areas and maximized the available space with photovoltaic (PV) panels. As part of the research, Affordable Solar reviewed the monthly 2019 energy invoices from PNM to gather information on the peak demands and the overall energy consumption of the campus. Since the campus is metered by one master meter, the study cannot take into consideration the energy consumption of each individual building. However, the important factor in this study is the overall energy consumption of the campus as a whole and is independent of each building consumption. Conceptual roof plan drawings were completed to show the maximum PV panels allowed based on the allowable roof area. Each individual building was analyzed to determine the PV module quantity and the system size to determine the energy output of each building. The system cost was also determined based on the development of each individual building at various phases.

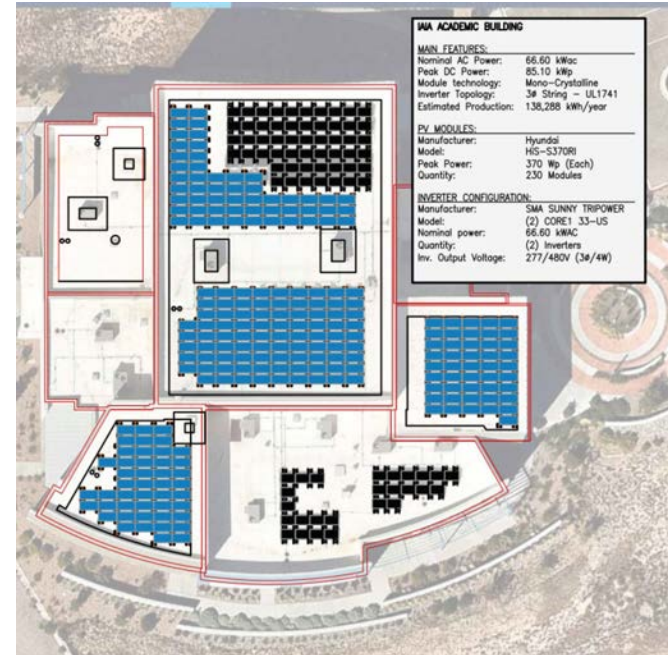
IAIA recently worked with Affordable Solar to provide and install PV panels on the roof of the Facilities Building along with a small ground mount system adjacent to the Green House.

Building	Modules	System Size (kWdc)	Production (kWh/year)	System Cost
Academic Building	382	141.34	248,052	\$ 353,350.00
Lifelong Education Building	262	96.94	167,803	\$ 242,350.00
Library & Technology Building	352	130.24	217,631	\$ 325,600.00
Residence Building	312	115.44	198,210	\$ 288,600.00
Science & Technology Building	382	141.34	247,486	\$ 353,350.00
Welcome Building	114	42.18	69,850	\$ 105,450.00
Performing Arts Building	230	85.10	138,288	\$ 212,750.00
Sculpture and Foundry Building	204	75.48	131,033	\$ 188,700.00
Total	2238	828.06	1,418,354	\$ 2,070,150.00

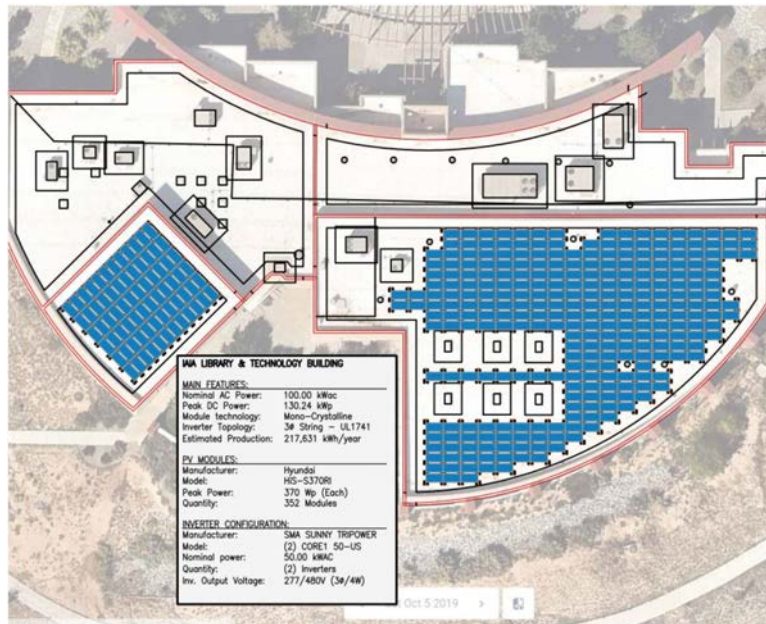
The chart above shows the system cost if the projects were phased and completed at various times. The system cost could be reduced if the individual buildings were completed in one phase or grouped together with multiple buildings completed at each phase. The system shown does not include a battery which can also be provided as part of the system. The battery allows the PV system to store energy at various times of the year when more energy can be created and used at various times. The initial cost of the battery is approximately \$300,000 and has a life expectancy of approximately 20 years. The use of the battery also allows for additional cost savings on a monthly basis.



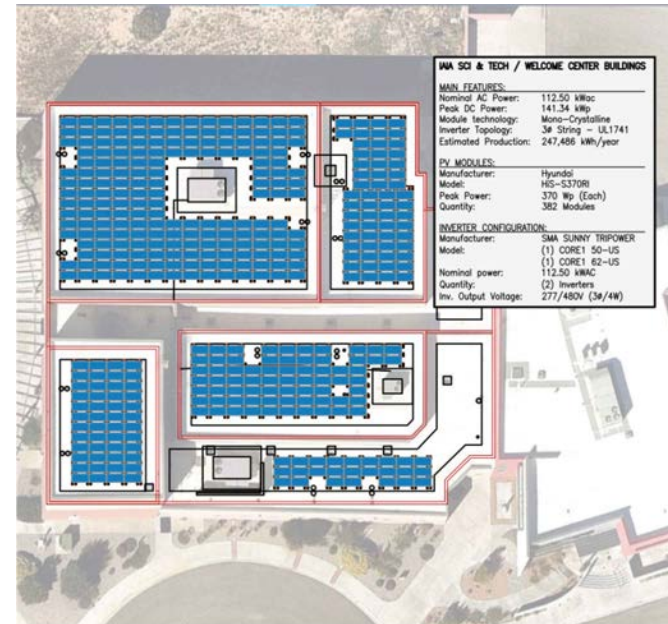
Academic Building



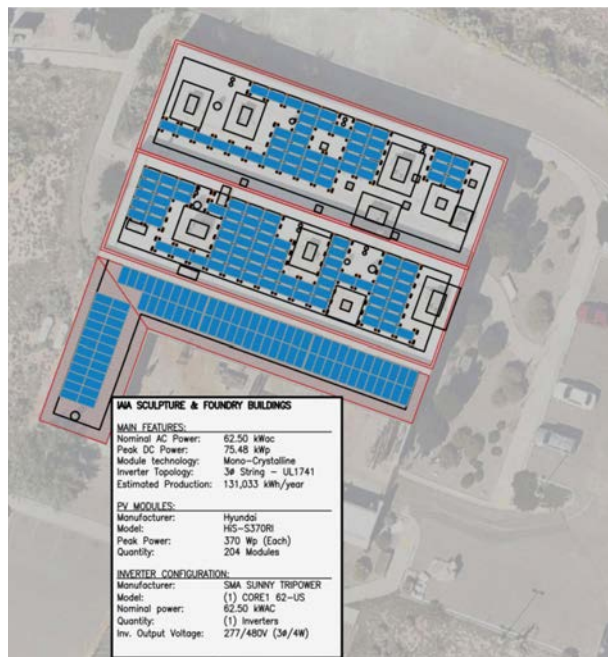
Performing Arts and Fitness Center



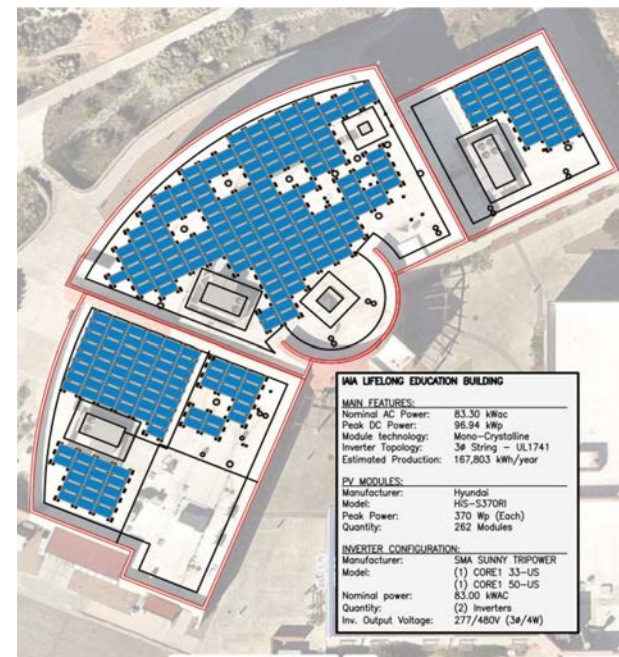
Library and Technology Building



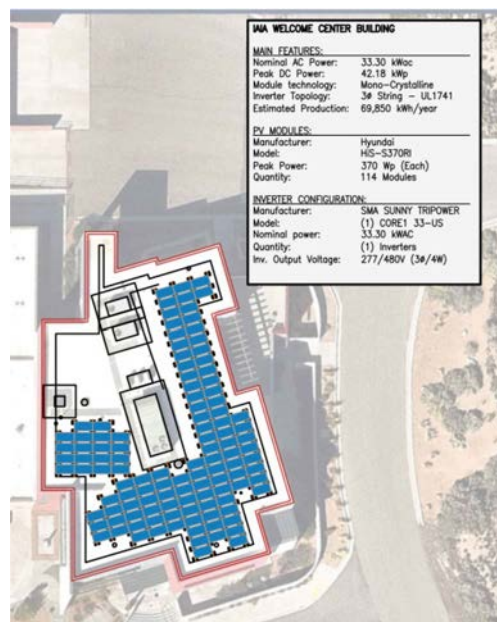
Ells Science and Technology Building + Digital Dome



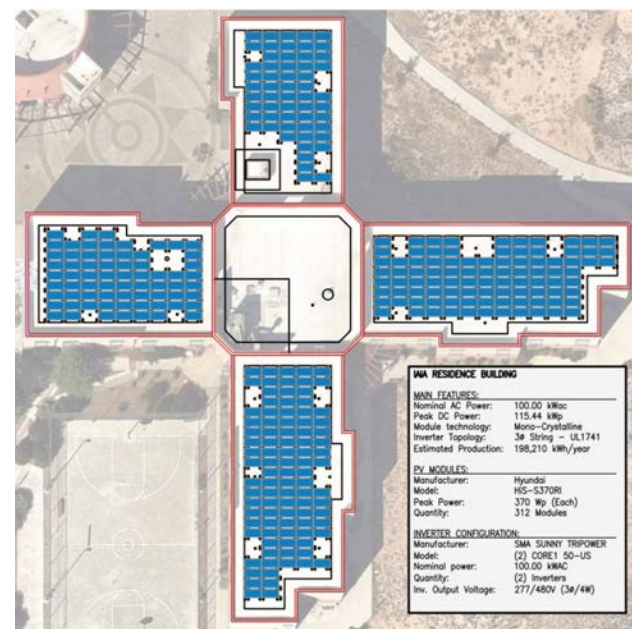
Allan Houser Haozous Sculpture and Foundry



Center for Lifelong Education and Cafe



Lloyd Kiva New Welcome Center



Residence Center

roof area study

A total of eight (8) existing campus buildings were studied and analyzed to determine the maximum allowable roof area to be used for providing and installing photovoltaic (PV) panels. Each building was analyzed to provide the maximum energy output based on the proposed PV panel module quantity.

PLAN '22

MISSION OBJECTIVES

Improve Student Success
Strengthen Academic Programs
Build College Community
Advance Contemporary Native Arts and Culture
Build Institutional Capacity for Growth

CORE VALUES

Collaboration
Excellence
Creativity
Respect
Integrity
Sustainability

TEN GUIDING PRINCIPLES FOR BUILDING ON THE IAIA CAMPUS

IAIA has adopted the following Guiding Principles to guide the development of the campus:

- 1 The Master Plan design concept reflects American Indian spiritual values related to land and its use, embodying protection, preservation, and healing of the land
- 2 The Master Plan design concept incorporates the local planning and architectural traditions of Pueblo people, while reinforcing the commonalities among the planning traditions of all American Indians
- 3 American Indian artistic expression will form an integral part of the campus design, revealed in its building and landscape forms, choice of materials, colors, and textures in each building detail
- 4 The design concept strives to imbue the campus with a holistic integration of its various academic, living, social, cultural, spiritual, and recreational components.
- 5 The Master Plan design concept promotes a sharing of the land and its resources among its plant, animal, and human cohabitants, through the re-creation of wildlife habitats within the campus while restoring the land to its original richness and abundance.
- 6 The campus is committed to a conservation of the limited and invaluable energy and natural resources of the land. The Master Plan design concept incorporates energy-saving principles in the massing, placement, and orientation of its buildings, and maximizing the use of energy-wise building systems.
- 7 The Master Plan design concept evolves “from the inside out”, spaces will be designed to serve functional, aesthetic, psychological and spiritual needs of the building’s occupants with special attention to the unique needs of a fine arts college
- 8 The Master Plan design concept will reflect the needs of the Institute as a living, growing, and evolving organism, flexible to adapt to the changing and advancing needs of the Institute
- 9 The campus will strive to serve as a model of sensitive planning and architecture, not only for all American Indians, but for all people in America, and elsewhere
- 10 The Master Plan design will promote and incorporate concepts of sustainability as defined in the Institute’s Sustainable Futures Initiative Policy

FINAL CAMPUS MASTER PLAN CONCEPT DESIGN DESCRIPTION

The 2020 campus master plan continues the IAIA's planning history for the future development of the Institute and the campus. The final concept of the 2020 campus master plan continues the design and planning principles established during the initial development of the campus and respects the cultural and traditional concepts of Native culture. The master plan continues to evolve around the Dance Circle/central plaza and continues to evolve around various important axes derived from the center of the campus including the solstice lines and the cardinal directions. Cultural grounds and ceremonial structures continue to align with these axes. Proposed building masses and courtyards also respect these principles creating and supporting a physical environment that is both unique and memorable to the Institute. Sustainability will continue to be an important principle for the future growth of the campus and sustainable principles will be implemented as part of the evolution of the campus.

MIX-USE BUILDING (CLASSROOMS/STUDIOS/RESIDENT HALL)

New mix-use buildings are intended to replace the existing casita student housing complex. The proposed mix-use buildings are multi-story buildings which will provide classrooms, conference rooms, study rooms and studios on the main floor. The second floor will consist of student housing. Storage for studio spaces and other departments will be included below the main floor. This concept will provide students easier and safer access to the studios from their dormitory room. In addition, students will have dedicated studio spaces which will reduce the need for students to transport artwork that is in progress and provide spaces for students to safely secure their artwork that is in progress. The orientation of the mix-use buildings will allow maximum views to the outside and create an enclosed courtyard for student safety. An enclosed playground for families living in the student housing will also provide protection and security. The location of the proposed mix-use buildings are near the student union building, cafeteria, garden and circulation paths to other buildings on the campus. A new courtyard from the student entrance will provide access to these circulation paths. The location of the new buildings, the central courtyard between the new proposed buildings and the pedestrian walk will continue to respect the planning design concept and align with an axis line back to the center of the Dance Circle.

MULTI-PURPOSE FIELD/POW WOW ARENA

A new multi-purpose field and pow wow arena is proposed adjacent to the recently completed Performing Arts and Fitness Center. The location of the field allows the space to be used by both departments, performing arts and physical education, in the adjacent building for their curriculum. In addition, the area is relatively flat in topography which makes this area ideal, appropriate and cost effective. The multi-purpose field is located near existing parking areas and overflow parking areas for accommodating visitors during events and limiting visitor access to the rest of the campus during events. The south and east edge of the field area adjacent to the road can be enhanced with landscape, architectural feature walls, and earth berms to reduce visibility to/from the road to the field. These features will also be developed to provide safety and security for visitors. In addition, these features such as earth berms can be developed to provide seating.

MEMORIAL COURTYARD

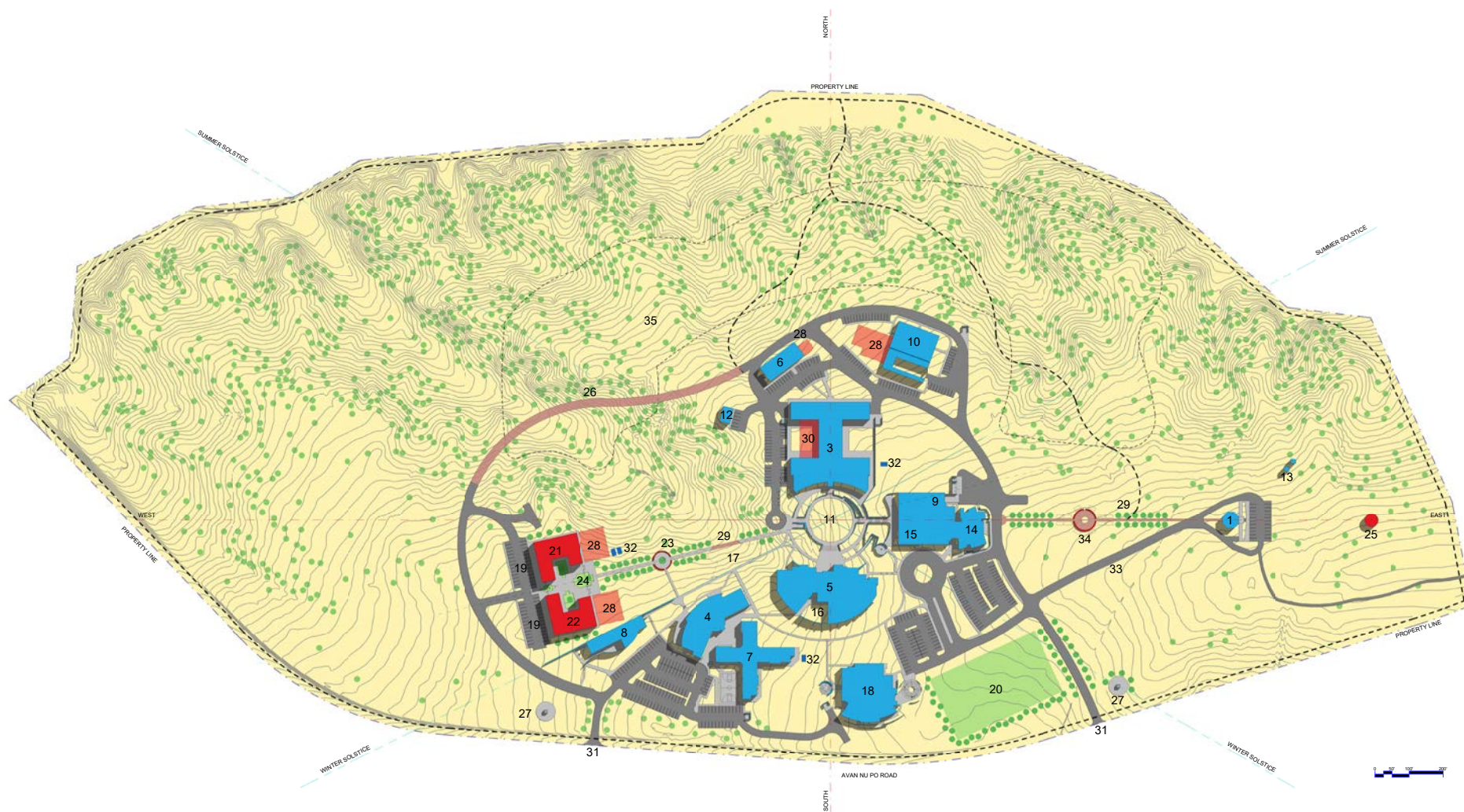
The visual and physical connection between the campus and the Hogan is defined with a gravel walk following the East cardinal direction from the main Dance Circle. The walk is enhanced and defined with landscape and solar lighting for safety. A courtyard is created along the pedestrian path. A memorial courtyard to honor alumni and the history of the Institute is proposed. The courtyard is intended to be defined with a memorial plaque and artwork in the center and further enhanced with seating areas, landscape and cultural features. The courtyard can be used for outdoor gatherings and can also be used as a ceremonial space.

FUTURE RESEARCH BUILDING

An addition to the existing Academic Building is proposed. The addition will be developed on the west side of the building. The addition will be mainly used by Museum Studies which would be relocated from the Science and Technology Building. The addition may potentially also include studio space.

ENTRY DRIVES AND CAMPUS ROAD

The main entry drives have been reduced and relocated to accommodate the vehicular traffic entering and exiting the campus and to align with existing roads. Adjacent parking areas have been slightly reconfigured to work with the new drives and create a smoother transition. The distance of separation between the entry/exit drives will create a safer stop for staff and students when leaving the campus and from traffic traveling along Avan Nu Po Road. In addition, it is proposed that the main entry drives are developed along with new campus signage, an art piece/sculpture that can be used as an obelisk/marker and enhanced lighting and landscape to establish a clear presence for the Institute. A new access loop road around the campus has been proposed for various reasons including vehicular safety, campus/facility access by staff and emergency vehicles.



Final 2020 Campus Master Plan Design

LEGEND

- | | | | |
|------------------------------------------|-----------------------------------------------|--------------------------------------------------------|----------------------------------------------|
| 1 Hogan | 10 Allan Houser Haozous Sculpture and Foundry | 19 Parking | 28 Future Expansion |
| 2 Family Housing (Demo Existing) | 11 Dance Circle | 20 Multi-Purpose Field/Pow Wow Arena | 29 Gravel Walk Path with Solar Lighting |
| 3 Academic Building | 12 Green House | 21 Mix-Use Building (Classrooms/Studios/Resident Hall) | 30 Future Research Building |
| 4 Center for Lifelong Education and Cafe | 13 Sweat Lodges | 22 Mix-Use Building (Classrooms/Studios/Resident Hall) | 31 Main Campus Entry |
| 5 Library and Technology Building | 14 Lloyd Kiva New Welcome Center | 23 Plaza | 32 Underground Rain Water Harvesting Cistern |
| 6 Facilities | 15 Digital Dome | 24 Courtyard | 33 Existing Road |
| 7 Residence Center | 16 Haozous Garden | 25 Meditation Area | 34 Memorial Courtyard |
| 8 Student Union Building | 17 Land-Grant Gardent | 26 Campus Loop Road (Compacted gravel surface) | 35 Disc Golf Course |
| 9 Ellis Science and Technology Building | 18 Performing Arts and Fitness Center | 27 Native Obelisk/Marker/Campus Signage | |



- Existing Buildings
- New Buildings
- Walking Path

