Banner Health Medical Campus
18611 North Hayden Road
Application Narrative for
Crossroads East PCD Zoning Allocation,
Development Standard Amendments
and Conditional Use Permit
5-ZN-2022 and **2-UP-2022**

Submitted by:

Banner Health®

September 2, 2022

Contents

1. Introduction

Banner Health submits this application to the City of Scottsdale in support of Banner's proposal to develop the Banner Health Medical Campus Scottsdale, which is planned as an approximately 48-acre medical campus with a state-of-the-art, full service hospital, cancer center and ancillary medical uses and facilities on property located at the northeast corner of Hayden Road and the Loop 101 Freeway in the City of Scottsdale ("Property"). The Property is a portion of Maricopa County Assessor Parcel number 212-31-966A, and the approximate boundaries of the development site are shown below. Banner is proposing that the Property be allocated Commercial Office ("C-O") zoning pursuant to the Crossroads East Planned Community District zoning, is seeking approval of a Conditional Use Permit for the proposed hospital use and is seeking amended development standards to accommodate an increased building height allowance.

2. Site and Zoning History

The Property is located within Planning Unit IX of the Crossroads East PCD and is currently held in trust and managed by the Arizona State Land Department ("ASLD"). The Crossroads East PCD, which encompasses approximately 1,000 acres generally located between Legacy Boulevard and Princess Boulevard (north-south) and Hayden Road and Scottsdale Road (east-west), bounding both sides of State Route 101. At the time of the

original approval in 2002, the Crossroads East PCD encompassed land wholly managed under trust by ASLD. In the time since, numerous properties within the Crossroads East PCD have been sold at public auction and are developed or under development. The most recent and significant sales within Crossroads East include a sale to Cavasson/Nationwide for a mixed-use development within what is known as Planning Unit V (located immediately to the west, across Hayden, from the Property) and a sale to Axon for a mixed-use office development within what is known as Planning Units X and XI (located south of the State Route 101 along the east side of Hayden Road).

The Crossroads East PCD was overhauled in 2018 (Zoning Case No. 19-ZN-2002 #6), in conjunction with the Cavasson/Nationwide proposal. The Crossroads East PCD is comprised of eleven planning units for the overall 1,000 acres and includes an approved development plan, land use budget and amended development standards. A development agreement also exists between ASLD and the City for Crossroads East (Contract Nos. 2002-14-COS A3 and A4), which outlines certain development obligations for properties in Crossroads East.

Importantly, the Crossroads East PCD specifies the permitted zoning districts for the Property, which are allocated at the time of development pursuant to the approved Land Use Budget. For properties within Planning Unit IX, the available zoning districts are: I-1 (Industrial Park), PRC and PCP (Planned Regional Center and Planned Airpark Core Development), C-2 and C-2 (Central Business District and Highway Commercial District) and C-O (Commercial Office). Pursuant to the terms of the Crossroads East PCD, ASLD selects the allocation of an approved zoning district to a property at the time of disposition. Although the allocation of zoning is processed as a rezoning case, the Property is not being rezoned. Instead, the City of Scottsdale is formally adopting ASLD's approved allocation for the Property, which will ultimately be reflected on the City's zoning maps. For the Property, ASLD has approved an allocated of C-O zoning for the Property.

Banner Health is in the process of acquiring the Property from ASLD. A public auction for the sale of the Property is anticipated in the Fall of 2022.

3. Existing Conditions/Designations

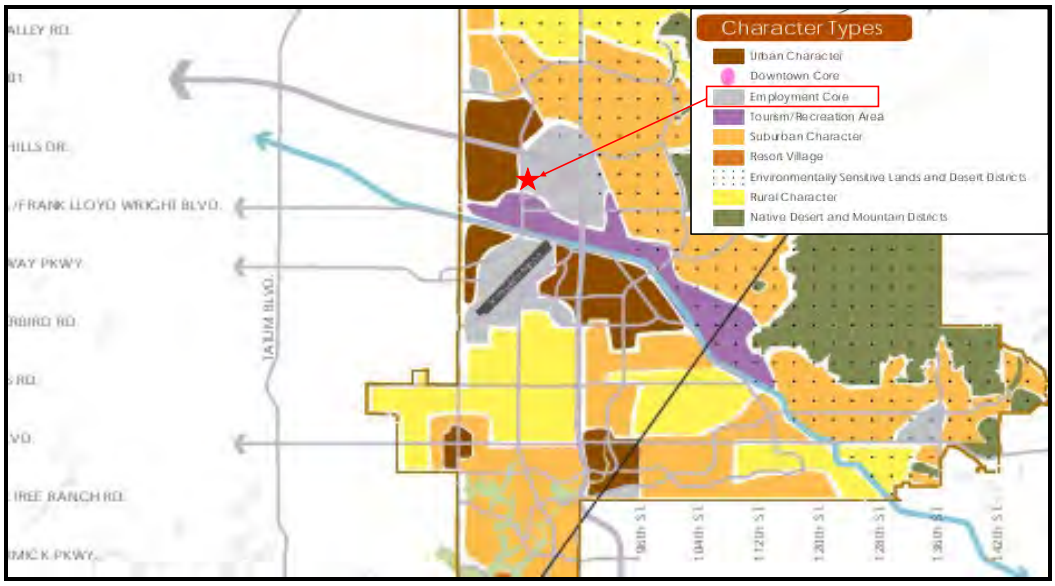
The Property is currently vacant, undeveloped desert land, and is bound on the east by a City of Scottsdale water treatment facility, on the south by the Loop 101 Freeway, and on the west by Hayden Road and the Nationwide/Cavasson development. The northern

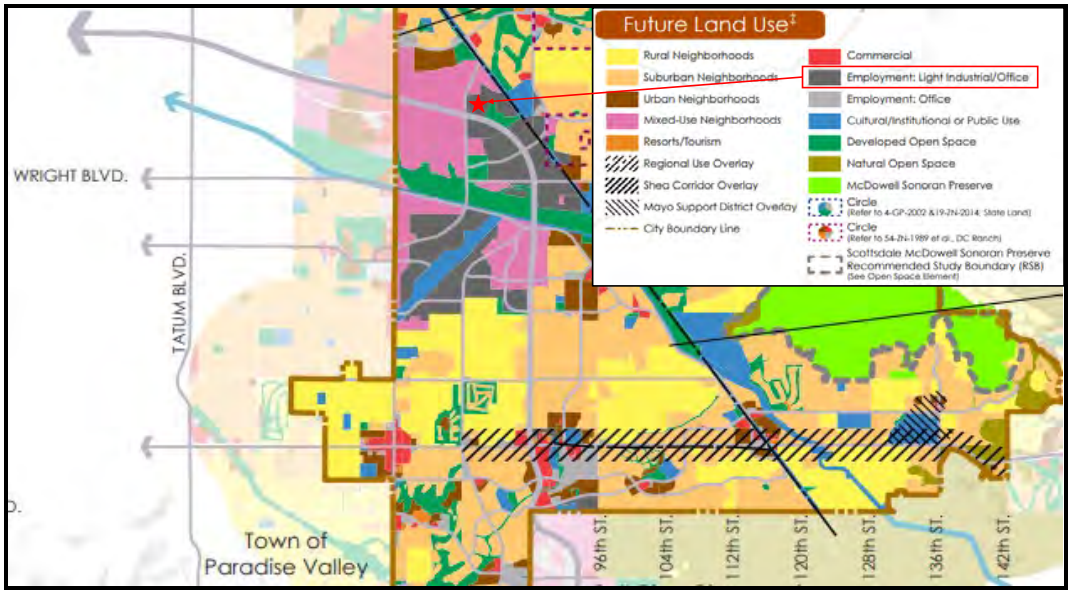
boundary of the site is bound by additional vacant land owned by the Arizona State Land Department.

Development of the Property is governed by several City of Scottsdale policy and regulatory plans, including the General Plan, Greater Airpark Character Area Plan and the Crossroads East Planned Community District.

General Plan Designations

The Property is currently designated within the City of Scottsdale General Plan Character Types as Employment Core. The proposed medical campus and use for the Property further refines the Employment designation as Employment: Light Industrial/Office.

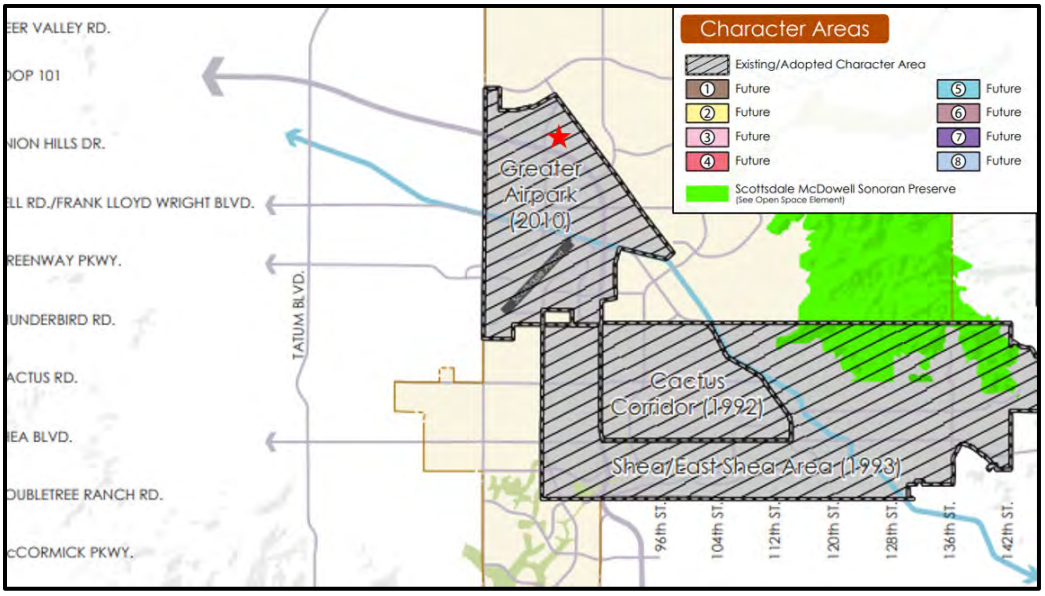


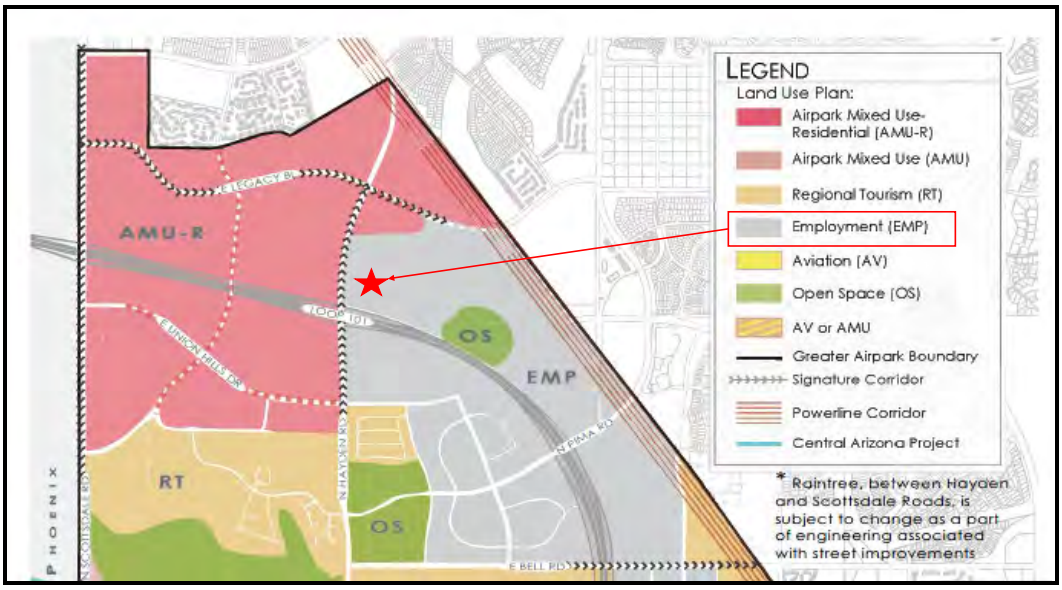


See Section 7 below for a detailed discussion as to how the proposed Banner Health Medical Campus development complies with the General Plan Land Use designations for this property.

Greater Airpark Character Area Plan

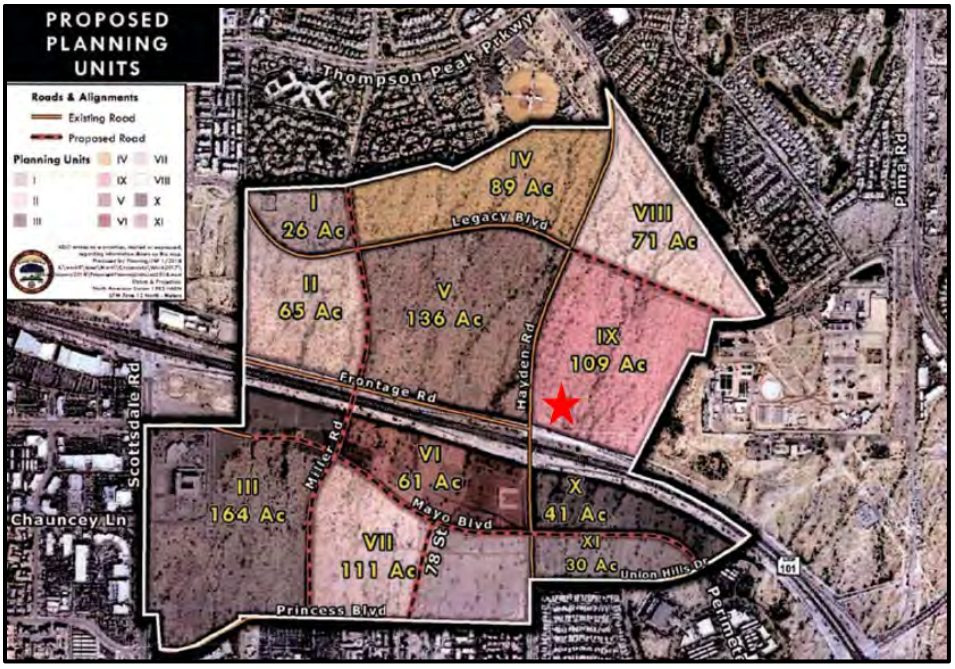
The Property is located within the Greater Airpark Character Area Plan and is designated for Employment Uses. Section 8 below provides detailed discussion as to how the Banner Health Medical Campus advances the goals and polices of the Greater Airpark Character Area Plan.





Crossroads East PCD

The Property is zoned as part of the Crossroads East Planned Community District ("PCD") and is located within Planning Unit 9 of the Crossroads East PCD. The Crossroads East PCD is the prevailing zoning framework for the Property and has been subject to various rezoning, development agreements and other entitlement cases through the years, and was most recently amended and approved by the City of Scottsdale in 2018 (Case ZN 19-ZN-2002 #7). The entire Crossroads East PCD is shown below.



Crossroads East is divided into several planning units that have been divided over time. The Banner Health Medical Campus is proposed to develop within a portion of Planning Unit 9. Section 8 below provides details regarding Planning Unit 9 and summarizes the land use allocation proposed by Banner, as approved by ASLD, for this proposed development.

4. Land Use Requests

Banner Health seeks approval of the following entitlements in support of the development of the Banner Health Medical Campus:

1. A zoning map amendment to confirm the Arizona State Land Department's allocation of the Commercial Office (C-O) zoning for the Property as allowed within the Crossroads East PCD;
2. A Conditional Use Permit (CUP) to allow a hospital use with helipads in a C-O zoning district pursuant to Section 11.201.A of the Scottsdale Zoning Ordinance; and
3. Amendments to Sections 1.403.J.2 and 7.101.B of the City of Scottsdale Zoning Ordinance to allow for an increase in the maximum allowed building height of a hospital to ninety-four (94) feet, specific to the Property only.

5. Project Overview

The proposed Banner Health Medical Center campus will include a multi-story, full-service, acute care hospital planned to accommodate up to 300 patient beds, a potential cancer center, medical office building, structured parking, helipads and other ancillary uses. The Banner Health Medical Campus is intended to expand the Banner Health network and serve as a new community healthcare resource for the existing and growing population in North Scottsdale and North Phoenix. The campus will be designed with primary access off Hayden Road to the west, and secondary access points off the Cavasson Boulevard extension to the north. Parking for the ultimate buildout of the Property will be accommodated via a combination of surface and structured parking located conveniently to the functions that they serve. The campus will include outdoor patios and gardens as well as a walking trail throughout the campus. The Banner Health Medical Center campus has been master-planned to be developed over three phases.

Phasing

The Banner Health Medical Campus is designed to be built, over time, in three phases. Phase 1 will accommodate approximately 385,000 square feet of hospital, which will include a 5-story 136-bed hospital tower with adjoining 2-story diagnostic & treatment building that will house emergency, surgery, laboratory, pharmacy, and associated support services. The hospital will be supported by an on-grade, screened loading dock and central utility plant, as well as a ground-mounted helipad. Phase 1 will also include a 3-story approximately 120,000 SF medical office building.

Phase 2 is anticipated to include a 90,000 square-foot 3-Story cancer center, and a 4-level parking structure.

Phase 3 is planned to accommodate additional staff and patient volumes with the final expansion of the hospital, a new patient tower at the east end of the main building, and expansions to both the diagnostic & treatment building and parking structure. A secondary roof-mounted helipad is planned for the Phase 3 patient tower. At build out, the hospital is planned for approximately 300 licensed patient beds.

Site Organization

The Banner Health Medical Campus is designed to establish the community presence for the hospital and to maintain flexibility for future development on the Property. Beyond the main entry off Hayden Road, staggered building heights provide a visual cue to promote intuitive wayfinding to the various treatment areas. Intuitive wayfinding is a critical design element that helps alleviate stress for patients and visitors to the campus.

The hospitals' four and five-story patient towers are placed on the south end of the Property to provide maximum visibility from the Loop 101 Freeway, while also providing separation from the closest residential neighborhoods that are located approximately a half-mile north of the Property. The main hospital building, which will be constructed with Phase 1, will contain a 5-story patient tower, a two-story diagnostic and treatment building, emergency department and central operating plant. These buildings are designed to accommodate an expansion on the west side with the addition of an administration building, neo-natal intensive care unit and additional patient beds, and on the east side with an additional patient tower with a roof-mounted helipad.

A 3-story cancer center will be developed in Phase 2 and will be located directly north of the main hospital building. The two buildings may be connected by an elevated walkway on the second story of each building. Parking for the cancer center is located in a parking

field to the east and, ultimately, in the parking structure on the north end of the Property. The area surrounding the cancer center has been planned to provide flexibility for the development, expansion and ultimate layout of the building.

A medical office building (MOB), which may ultimately include a surgery center and outpatient imaging center, is located in the northwest corner of the Property. Primary access to the MOB is from the first driveway on Cavasson Boulevard, yet it will also be accessible from the main hospital entry on Hayden Road. A parking area and retention/open space area will be located south of the MOB. The medical office building may be expanded upon in future phases of development.

The loading dock and central plant are located on the eastern portion of the site, connected to the diagnostic and treatment portion of the hospital. The location for this main service area was deliberately chosen to be obscured from view from primary city streets and building entries and is easily accessed from a service drive along the eastern portion of the site. These 'back of house' uses are also located near the City's water treatment facility, and directly adjacent to the City's lift station that is currently under construction.

Wellness and Connectivity

One of the main priorities in designing this campus for wellness and connectivity, is ensuring intuitive wayfinding and safe, efficient pedestrian paths. An additional priority is to lift the human spirit and support wellness through both the internal site design, and the orientation to the larger Scottsdale community. To achieve these goals, two "green" spines have been established on the campus, one in a north/south direction, and the other in an east/west direction, to provide connectivity between the buildings and the parking infrastructure, open spaces, and perimeter sidewalks. Both spines connect into an overall wellness path that encircles the 48-acre property for a total length of over 1 mile. The walking path may be used for visitors and staff alike and will provide an excellent way of relieving stress. Appropriately spaced nodes may be established along these paths to pace the journey, as well as to provide ample respite space outside of the hospital. Local landmarks may be celebrated along this path with signage. In the northeast corner, a portion of the Property is designated for open space and connection to the natural desert environment in a retention/open space area.

Parking

Parking accommodations on the campus were developed to meet the City of Scottsdale parking ordinance requirements and to conform to Banner Health's system-wide parking standards. Banner Health has developed parking standards that blend 6 different

methodology scenarios based on the following criteria: 1) licensed patient bed totals, 2) staff totals (broken down per shift), 3) facility square footage based on use, and 4) anticipated patient visits. The resulting Banner Health network-wide parking standard that has been established per building use are as follows:

- Hospital Tower: 4 parking spaces per licensed bed,
- Medical Office Building: 4.5 parking spaces per 1,000 square feet
- Cancer Center: 5 parking spaces per 1,000 square feet

The parking totals generated by the Banner Health requirements exceed the requirements from the City of Scottsdale by approximately 800 parking spaces. The excess of provided parking over the required parking is attributed to the hospital use and is a result of the difference in parking requirements between Banner Health (4 stalls per licensed bed) and the City of Scottsdale (1.5 stalls per bed). As the campus develops, Banner Health will continue to evaluate its parking demand against master plan values to provide the appropriate amount of parking for the provided use.

The campus has been designed to maximize opportunities for placing parking fields close to building entries for a better sense of arrival for staff, visitors and patients. Landscaped paths will be incorporated to allow for safe movement into the facility. ADA parking is included directly adjacent to the patient drop-off for the main and emergency department entries and will be provided proportionately in covered parking areas. Covered parking for employees is provided south of the facility, while patient and visitor parking is located directly west of the main hospital buildings. A dedicated parking lot for emergency visitors is provided. In Phase 1, staff parking will also be west of the hospital with a staff entry provided North of the main entrance. In future phases of the hospital, some or all of the staff parking will be relocated to the future parking structure. Infrastructure is being planned for Electric Vehicle Charging stations and solar ready parking canopies for the canopies south of the hospital as well as in the future phased parking structure on the north side of the campus.

Loading Dock and Central Plant

The loading dock and central plant area are located on the east side of the Property. The loading dock layout includes four loading spaces, two compactors, a raised delivery truck area and a ramp down to the bottom of the dock. The central plant and MEP yard will be physically sized in Phase 1 for the ultimate build out of the campus and will be equipped

when each subsequent phase comes online. The loading dock and central plant will support all phases of the hospital as well as the cancer center. The medical office building will be self-supported within the northwest portion of the Property and will be designed to function as a stand-alone development parcel.

6. Architectural Character

Architectural Design and Theme

The Banner Health Medical Center is planned to be timeless in design, of unmatched quality and will mirror the quality of care and commitment to the community that Banner Health strives to provide in all its facilities. The Banner Health Medical Center will be designed using Banner Health template designs that are adapted to the specific site and that have been developed to maximize functional and operational efficiencies, while providing state-of-the-art treatment spaces focused on exceptional patient care for the growing North Scottsdale and North Phoenix communities.

The Banner Health Medical Center will be designed using quality materials and massing strategies that are sensitive to the local surroundings in terms of scale and massing along the freeway corridor. This proposed development builds off the design themes established at Banner's other medical center projects, specifically Banner Ironwood in Queen Creek, Banner Gateway in Gilbert and Banner Ocotillo in Chandler. The architecture and building massing are integrated with property and building programming strategies that aim to relieve stress for patients, enhance wayfinding for staff and visitors, communicate a premium care delivery environment, and integrate seamlessly into the natural desert environment.

A focus on health and wellness will elevate the experience of those visiting the site. To emphasize placemaking and connectivity with the community, the natural desert site will be celebrated with nature trails and open spaces, as well as through the architecture by framing the direct views to the McDowell Mountain preserve north and east of the site, and long -range views south to the greater valley.

Building Materials

A blend of quality building materials will include masonry block, metals, and synthetic finishes combined with a composition of windows and shading elements. This combination will help break down the perceived size of the building and create an appropriate presence at this important entry to the Grayhawk residential area to the north.

Masonry elements will be concentrated at the main entry points of the building and along the freeway frontage; the two most visible sides of the building. The masonry work will

consist of four different colors and multiple masonry textures that are inter-woven in a pattern reminiscent of the natural Arizona landscape. This signature pattern will also be used in site walls and to screen the building support areas on the east elevation. The placement of the masonry serves two primary functions; 1) to communicate design excellence that is representative of the care received and 2) to be a focal element that stands out from the rest of the building perimeter to call one's attention to a specific element.

Synthetic stucco (EIFS) of a similar color with horizontal and vertical score lines will be the predominant material on the east and north sides of the building. Punched window openings, areas of metal panel, canopies and other subtle accents will provide a rich textural composition intended to create visual interest and avoid creating monolithic elevations. EIFS is also used in areas that are planned for future expansion to limit the demolition of high-cost materials. Metal panel accents will be used throughout the exterior of the building to lighten the appearance and provide a visual break from the predominant masonry or stucco exterior materials. These panels will be used in a way that breaks the building's cornice line with the intent of reducing the building's mass.

The color palette will be comprised of a range of natural earth tones, with the intention of staying away from large amounts of warm or dark colors. Light sand and tan colors will be complimented by the cooler glass and small areas of metal panels. This approach gives the building a lighter feel, relying on the rich texture of the various materials to promote a sense of elegance and quality commensurate with the consistent visual identity of Banner Health facilities.

Sustainability

Banner Health has a long-standing history of celebrating health and wellness with their facility design and providing solutions that limit environmental impact with a balance on fiscal responsibility and a hyper focus on positive outcomes for patient care. As long-term building owners and facility operators, each of the structures on the campus will include systems that promote high returns on investment and low maintenance or replacement costs. Specific strategies for each building type will be developed through the design of each phase that promote energy efficiency, water/waste reduction without compromising patient care, and a respect for the natural surroundings.

Banner Health is a proponent of sustainable strategies and will incorporate many LEED system goals as well as those promoted within the International Green Construction Code. strategy to ensure the Banner's commitment to health, wellness and well-being onsite, the design team is using the AIA's Framework for Design Excellence to solicit and

evaluate effective solutions for the project and is committed to highlighting solutions in each of the ten categories developed by the American Institute of Architects (Integration, Equitable Communities, Ecosystems, Water, Economy, Energy, Well-being, Resources, Change, and Discovery). Banner Health will invest resources in the sustainable strategies that have the most impact and return on investment overall for the campus.

One of these sustainable strategies includes a landscape design that consists of native and regionally adapted species of trees, shrubs and cacti that are low water use by nature. No turf or lawn areas are proposed for the project landscape design. Additionally:

- All planting areas throughout project will be top-dressed with a 2" depth granite mulch to retain moisture at tree and shrub locations.
- All trees and plants will be fed by an automatic underground irrigation system that delivers water directly to each tree and shrub in timed intervals through drip emitters.
- Trees, shrubs and cacti will be valved separately to accurately control the amount and duration of watering to match individual species needs without over-watering.
- The irrigation system will utilize a master valve that will automatically shut down system in the event of a detected leak within the overall system and rain sensors to monitor local weather conditions and adjust water schedule accordingly.

The paving and hardscape areas on the site will direct stormwater runoff into landscape planting areas to collect and convey stormwater runoff to larger retention areas. These micro basins will deliver water to plants prior to entry into stormwater structures thereby reducing net irrigation demand and lowering stormwater volume entering the drainage system.

A second sustainable strategy pertains to the design and implementation of clever plumbing solutions that go beyond the City of Scottsdale code requirements. These strategies include:

- Careful monitoring and adjustment of hot water usage;
- Cooling tower makeup water will be closely monitored and adjusted as appropriate to minimize evaporation and reduce discharge;
- The project will use high-efficiency plumbing fixtures to conserve water and incorporate minimum requirements needed to ensure a safe and healthy building while applying safeguards so that the environmental impact is minimized.

7. General Plan Analysis

The City of Scottsdale General Plan 2035 provides a statement of vision and community-wide land use and development goals. The General Plan is to be used as a decision-making guide for development and is intended to be used as a framework for more specific planning. It is an expression of the City's goals and policies and is intended to shape the physical form of the city. As required by State Statute, every land use application must demonstrate substantial conformance and consistency with the General Plan.

As previously noted, this development site lies within the "Employment Core" land use designation. Employment Cores are primary employment centers for the City. These areas are predominantly located in the Greater Airpark Character Area and are noted for their freeway access and proximity to other major employment uses. Employment cores support a wide range of activities like aviation, light-industrial and regional and community-level employment uses. Typical employment core uses are found within campus-like settings with an emphasis on technology and corporate character. Properties within the Employment Core designation are suitable for taller building heights. As previously described, the proposed Banner Health Medical Campus is appropriate for the Employment Core designation.

Additionally, the property has a further refined land use designation of Employment: Light Industrial/Office. These properties are designated for a variety of employment uses and should be located and designed to limit impacts on and access to residential neighborhoods. Ideally, the streets serving Light Industrial/Office areas should be able to accommodate truck traffic and be in proximity to transportation networks. The proposed Banner Health Medical Campus aligns neatly with the attributes prescribed above. The site has been oriented so that the taller buildings are farthest away from the closest residential community, Grayhawk, (which is approximately one mile away). The location at Hayden Road and the Loop 101 Freeway provides easy access for employees and visitors alike.

Shown below are some of the General Plan elements and goals from each chapter of the 2035 Scottsdale General Plan that are advanced with the proposed development of the Banner Health Medical Campus.

Character and Culture Chapter

Character & Design Element

Goal CD 1: Determine the appropriateness of all development in terms of community goals, surrounding area character, and context

Policy CD 1.3- Ensure that all development is a part of and contributes to established Character Types.

RESPONSE: This proposed development lies within the Employment Core character type and within the Greater Airpark Character Area. The Banner Health Medical Campus promotes the goals and policies of these character types. A complete discussion of how this project complies with the goals and policies of the character area is provided in Section 7 below.

Goal CD 3: Foster quality design that enhances Scottsdale as a unique southwestern desert and tourism community through the development review processes.

Policy CD 3.1- Strengthen Scottsdale's economic and environmental attributes, distinctive character and attractiveness through collaborative site planning and design.

RESPONSE: The Banner Health Medical Campus has been developed in collaboration with the Arizona State Land Department and the City of Scottsdale to ensure a quality design that provides a high-quality employment opportunity at this location while taking into consideration the environmental attributes of the site and addressing any potential impacts on the surrounding area.

Goal CD 4: Enhance the design of streets and public spaces to improve Scottsdale's visual quality, experience, Sonoran Desert context, and social life.

Policy CD 4.3- Establish new, and maintain existing, guidelines and policies for the design and maintenance of Visually Significant Roadways and major city streets, including Scenic Corridors, Buffered Roadways, Desert Scenic Roadways (in ESLO districts), and streets with themed streetscape designs.

RESPONSE: The Banner Health Medical Campus will adhere to the guidelines of the Buffered Roadway. Along the Hayden Road frontage, the Banner

Campus will feature a natural desert edge with a generous landscape setback that exceeds the 30' minimum and 40' average requirement along Hayden Road. The proposed design within the landscape boundary along Hayden Road includes regional desert plantings (both salvaged and new), bioswales, a retention basin, and a meandering pedestrian path. This treatment will enhance the unique image of the streetscape and minimize the impact from traffic along Hayden Road.

Goal CD 6: Minimize light and noise pollution.

Policy CD 6.1- Support Scottsdale's dark sky areas and designation as an Outdoor Light Control City by reducing light pollution, glare, and trespass where possible, while still attending to public safety need.

RESPONSE: Lighting will be chosen for the campus to provide the maximum amount of light necessary for safety and security, while minimizing light trespass and glare. Full cut-off fixtures will be shielded and will be pointed away from property lines to ensure that the lighting program maintains dark skies to the greatest extent possible. Lighting will conform to the City of Scottsdale's requirements.

Policy CD 6.2- Encourage creative, energy efficient, and high-quality designs for outdoor lighting that reflect the character of the local context.

RESPONSE: As shown on the cut-sheets provided with the application materials, the lighting fixtures chosen for this campus include stylish, energy-saving, LED fixtures. The styling of the fixtures is unobtrusive and intended to allow the light poles to blend into their surroundings. The LED technology allows the light fixtures to have greater pole spacing to minimize visual clutter without sacrificing photometric performance.

Land Use Element

Goal LU 2: Sensitively transition and integrate land uses with the surrounding natural and built environments.

Policy LU 2.3- Locate employment and major non-residential uses along major transportation networks to limit impacts on residential areas and provide citywide and regional access.

RESPONSE: The proposed medical campus is located at the intersection of a freeway and arterial roadway – two major regional transportation corridors. The surrounding area is comprised of a built environment that provides visibility to Banner and allows Banner to establish a high value employment use within this important employment corridor. The development has been planned with sensitivity to the Grayhawk residential communities, with the tallest buildings placed closest to the freeway to provide the maximum distance possible between the hospital towers and the closest residences that are approximately a half-mile away. It is important to note that the transportation networks in this area have anticipated intense employment uses and that the traffic network will be improved with the extension of Cavasson Boulevard along the northern boundary of the site.

Goal LU 3: Maintain a balance of land uses to provide a high quality of life.

Policy LU3.3- Maintain a citywide balance of land uses and consider modifications to the land use mix to accommodate changes in community vision, demographic need, and economic sustainability.

RESPONSE: Banner will utilize the approved Commercial-Office (C-O) zoning for this property in order to implement the vision for this area and maintain the citywide balance of land uses.

Policy LU 3.5- Engage the community in all land use discussions.

RESPONSE: As detailed in the Citizen Review Plan for this project, Banner Health hosted a neighborhood meeting as required by the City of Scottsdale. The notification list included all property owners within 750-feet of the development site, as well as those individuals on the Citywide "Interested Parties" list. The notification list was further expanded to include the homeowner's associations within the Grayhawk community to specifically ensure broad-based opportunities for adjacent residents to learn about Banner's development plans. A summary of the neighborhood meeting and any additional outreach to interested stakeholders will be provided to the City in the form of a Citizen Review Report prior to the first public hearing for these applications.

Goal LU 6: Attract and retain diverse employment, business, and retail land uses to improve the economic well-being of Scottsdale's residents.

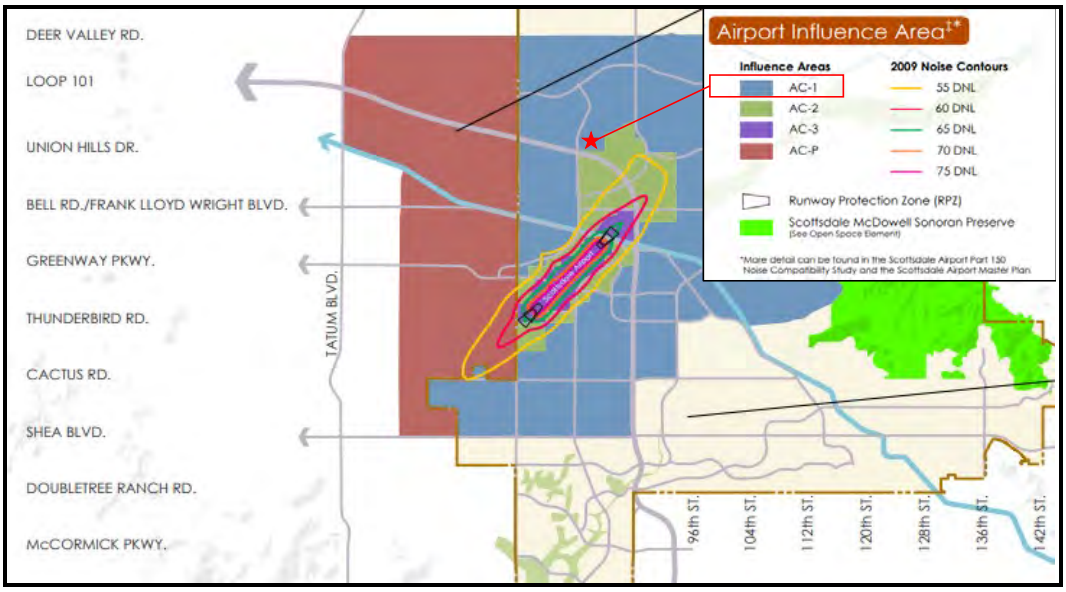
Policy LU 6.2- Support well-planned, clustered employment center of related or similar uses such as Healthcare and Research and Development land uses.

RESPONSE: The proposed Banner Health Medical Campus, along with the Cavasson office development across Hayden and the planned Axon headquarters and manufacturing facility across the Loop 101 Freeway will cement this location as a well-planned employment center for healthcare, insurance and public safety companies.

Goal LU 7 Protect the viability of the Scottsdale Airport by encouraging compatible land uses and development types in the surrounding area.

Policy LU 7.1- Maintain and follow the Airport Part 150 Noise Compatibility Program. Noise contours and other related information must be disclosed to all potential residents and businesses according to the Airport Influence Area and Noise Contour maps.

RESPONSE: As shown on the next page, this Property lies outside the 55 DNL Noise Contour area for the Scottsdale Airport yet remains within Airport Influence Area AC-1. Hospitals are permitted within the AC-1 Influence Area with certain limitations. The applicant will work with the City and Scottsdale Airport to ensure that those limitations are addressed, including a height analysis, noise mitigation measures, required disclosures and avigation easements, if required.



Collaboration and Engagement Chapter

Community Involvement Element

Goal CI 1: Seek early and ongoing community involvement through broad public input in project and policy-making decisions.

Policy CI 1.1- Maximize opportunities for early notification of proposed projects using a variety of methods.

Policy CI 1.2- Use public involvement plans to identify an engage interested parties and provide opportunities for information exchange.

Policy CI 1.3- Require project sponsors to conduct community involvement programs, and encourage them to show responsiveness to community comments, and demonstrate how comments are ultimately addressed.

RESPONSE to Policies 1.1 through 1.3: As previously noted, the applicant has provided a Citizen Review Plan to City of Scottsdale Planning Staff. As detailed in the plan, Banner held a neighborhood meeting as required by the City of Scottsdale Zoning Ordinance. The notification list included all property owners within 750-feet of the development site, as well as those individuals on the Citywide "Interested Parties" list. Additionally, a sign was posted on the property providing notice of the neighborhood meeting. A summary of the neighborhood meeting, all of the notification materials used to coordinate the meeting and a summary of any additional outreach to interested stakeholders will be provided to the City in the form of a Citizen Review Report prior to the first public hearing for these applications.

Community Well-Being Chapter

Healthy Community Element

Goal HC 1: Promote access to health and human services for citizens of Scottsdale.

Policy HC 1.1- Support the development, preservation, and enhancement of critical healthcare facilities, particularly in underserved areas. Work with healthcare

administrators to plan and develop facilities of the most suitable size, location, quality and type.

RESPONSE: The proposed Banner Health Medical Center campus will include a full-service acute care hospital, a potential cancer center, medical office building and other ancillary uses and is intended to serve as a new community healthcare resource to serve the existing and growing population in North Scottsdale. Banner Health has carefully chosen the programming for this facility to provide an optimum level of service for the target demographic.

Innovation & Prosperity Chapter

Economic Vitality Element

Goal EV 2: Provide diverse economic activities, employment opportunities, and educational pursuits to enhance the socioeconomic prosperity of all community members.

Policy EV 2.1: Target specific economic sectors for expansion or relocation in Scottsdale that will enhance the quality of life of the community, provide the greatest positive impact, and deliver the fewest negative impacts.

RESPONSE: By contributing to decreased response times from an emergency situation to medical care, the addition of a Banner Health facility at this location will enhance the safety and quality of life for residents of North Scottsdale. This enhancement in public safety will be provided with few, if any, negative impacts to the surrounding community.

Policy EV 2.4- Attract and retain a mix of businesses and industries that can provide jobs for residents of all skill and education levels.

RESPONSE: The Banner Health Medical Campus will be an employment center for individuals of all skill and education levels—from administrative and operational employees to nurses, doctors and other practitioners, the hospital and ancillary uses will provide job opportunities for residents of Scottsdale and beyond.

As discussed above and as required by State Statute, the proposed Banner Health Medical Campus is in substantial conformance and consistency with the goals and policies outlines in the City of Scottsdale General Plan 2035.

8. Compliance with Greater Airpark Character Area Plan

As previously noted, the development site is located within the Greater Airpark Character Area Plan (GACAP). The GACAP is a growth area within Scottsdale, and it is encouraged that development in this area will support a planned concentration of uses in order to discourage sprawl. The development site is designated as "Employment" on the GACAP Land Use Map. Similar to the Employment Core designation in the General Plan, the Employment designation in the GACAP includes office, commercial warehousing and light industrial land uses that provide opportunities for local as well as regional jobs. Employment areas within the GACAP should have access to multi-modal transportation systems. The proposed Banner Health Medical Campus is ideally situated within the Employment area at the Loop 101 Freeway and Hayden Road and will bring a range of jobs to the area. The jobs at the health campus will include administrative, nursing, physician and support staff positions.

The proposed Banner Health Medical Campus advances the following goals and policies of the plan elements:

Land Use Element

Goal LU 1: *Maintain and expand the Greater Airpark's role as a national and international economic destination through appropriate land uses, development and revitalization*.

Policy LU 1.1- Maintain and expand the diversity of land uses in the Greater Airpark.

RESPONSE: The addition of a medical campus at this particular location will contribute to the diversity of land uses in the area by providing an acute-care hospital that will serve the residential areas to the north and the future residential uses to the west.

Policy LU 1.2- Support a mix of uses within the Greater Airpark that promote a sense of community and economic efficiency, such as clustering similar/supportive uses and incorporating residential intended for the area's workforce where appropriate.

RESPONSE: The proposed medical campus is located across Hayden Road from the Cavasson/Nationwide office campus and across the Loop 101 Freeway from the Axon Campus that is under development. This advances the goal of clustering similar uses and will contribute to a vibrant gateway at the Hayden Road/Loop 101 intersection.

Policy LU 1.3- Promote development intensities supportive of existing and future market needs.

RESPONSE: The proposed Banner Health Medical Campus is planned at an intensity that will serve the immediate healthcare needs for the area, with planned expansions to support the needs of future residents as well.

Policy LU 1.4- Encourage the redevelopment of underutilized land to more productive uses.

RESPONSE: As previously noted, this site is undeveloped, but has been planned for high quality employment uses for many years. The Banner Health Medical Campus will make productive use of the Property by providing hundreds of employment opportunities within this important employment area of the City of Scottsdale.

Policy LU 1.5- Maintain and continue to foster dialogue between the City of Scottsdale and the Arizona State Land Department to facilitate innovative use and development of State-owned land.

RESPONSE: Banner Health has been working cooperatively with the Arizona State Land Department and City of Scottsdale to plan this development so that it is consistent with the City's vision, policies and goals for the area and so that the Property is developed in conformance with the land use master plans established by ASLD within the Crossroads East PCD.

Policy LU 1.8- Prevent erosion of Greater Airpark Employment land uses through land use regulations, such as limiting retail and restaurants in areas designated for employment.

RESPONSE: As a healthcare campus, the proposed development will be fully comprised of high-quality employment land uses .

Goal LU 3: *Sensitively transition land use, scale, and intensity at the Greater Airpark boundary in areas adjacent to lower-scale residential neighborhoods.*

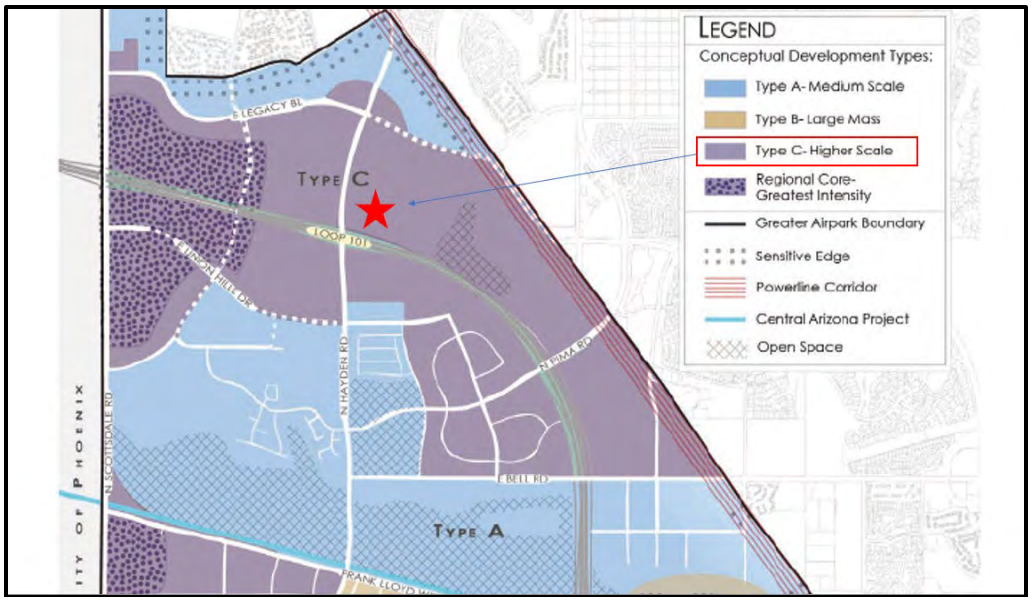
Policy LU 3.1- The scale of existing residential development should be acknowledged and respected through a sensitive edge buffe, which may include transitional development standards, landscape buffers, and sensitive architectural design solutions.

RESPONSE: While the proposed medical campus is not immediately adjacent to any residential uses, the location of the campus within the Crossroads PCD was carefully selected with sensitivity to the existing Grayhawk neighborhoods to the north and northeast. The placement of the taller buildings up against the Loop 101 Freeway frontage places the greatest distance possible between the proposed development and the nearest residential development.

Goal LU 4: *Utilize development types to guide the physical and built form of the Greater Airpark.*

Policy LU 4.3- Encourage higher-scale Type C development in areas with access to major transportation corridors and where lower-scale residential areas will be buffered from higher-scale development.

RESPONSE: As shown below, the Banner Health Medical Campus is located in a part of the Airpark that calls for Type-C- Higher Scale development. This development type is encouraged in areas with access to multiple modes of transportation and where scale will complement the area's character. Type C is not recommended in areas immediately adjacent to the Scottsdale Airport. The location of the proposed medical campus at the intersection of the Loop 101 Freeway and a major arterial, and away from residential development, perfectly implements this policy.



Goal LU 6: Promote the Greater Airpark as a mixed-use economic and aviation-based employment center that is complementary to Downtown Scottsdale, the city's premier cultural, civic and residential mixed-use core.

Policy LU 6.1- Prioritize employment uses over residential uses in the Greater Airpark.

RESPONSE: With the allocation of 48 acres as Commercial-Office (C-O) uses, the Banner Health Medical Center will implement not only the Crossroads East PCD, but also the stated policy of the Scottsdale Airpark Character Area Plan that emphasizes employment uses over residential uses. Banner Health anticipates that this proposed development may bring over 1,000 health-care related jobs to the site over the next five years. These include physicians, nurses, clinical and other professionals.

Economic Vitality Element

Goal EV 1: Sustain the long-term economic prosperity of the Greater Airpark.

Policy EV 1.5- Develop existing and attract new high-value businesses to the Greater Airpark.

RESPONSE: The addition of a healthcare campus to the Greater Airpark will bring a new-high value business to the Greater Airpark, including diverse,

high-quality jobs that will attract employees that may support surrounding residential and commercial areas.

Policy EV 1.7- Attract new businesses to the Greater Airpark and encourage retention programs to keep them in the community over time.

RESPONSE: A healthcare campus is a sustainable, high value, community-oriented business that will remain and grow with the community over time. Banner Health is proud of their track record in Arizona and has twelve hospitals in the greater Phoenix area. With over 50,000 employees, Banner is the largest private employer in Arizona. Moreover, Banner will be making a significant capital investment at this location of nearly $450 million over the next five years. This includes $300 million in the initial hospital investment and $150 million in physician and ambulatory investments. At buildout, the full healthcare campus will represent a direct investment of over $750 million dollars in the City of Scottsdale.

Policy EV 1.8- Attract a diversified business base to help insulate the city during economic downturns.

RESPONSE: Individual medical needs don't change during economic downturns. People require medical care and surgical services in times of prosperity and also when there is a downturn in economic activity. A healthcare campus will provide consistent availability of medical care to Scottsdale residents no matter what the economic condition of the City may be.

Goal EV 2: Maintain and strengthen established economic engines in the Greater Airpark.

Policy EV 2.4- Support the growth and development of the Greater Airpark's office industries and corporate headquarters.

RESPONSE: With the development of the Banner Health Medical Campus, the Greater Airpark area will become home to Banner's only full-service healthcare campus in the City of Scottsdale. The hospital and related office uses will create a synergy within the airpark that may bring other medical related uses to the airpark area.

Goal EV 4: Support the continued development of new economic opportunities that capitalize on market trends and the Greater Airpark's competitive strength.

Policy EV 4.5- Recognizing that there are limited, large scale, economic producing opportunities remaining in Scottsdale, work with the State Land Department to attract revenue generating projects to the Greater Airpark land holdings so as to benefit both the State and local community.

RESPONSE: Banner Health has worked closely with the Arizona State Land Department to carve out a portion of the Crossroads East PCD that is of ample size for the development of the hospital, while leaving a sizable amount of property that can be utilized for other employment uses that will create a synergy of uses at this important location in the City.

Environmental Planning Element

GOAL EP 1 - Reduce energy consumption through environmentally sensitive land use practices and design policies.

Policy EP1.3 - Promote landscape design and irrigation methods that contribute to water and energy conservation

RESPONSE: Low water native plant species will be selected for a natural desert landscape palette as well as a significant amount of species salvage from the site pre-construction.

Policy EP1.4 - Promote solar and alternative energy development standards in building and site design

RESPONSE: Electric Vehicle Charging stations will be provided, and infrastructure for solar-ready parking canopies will be planned for south of the hospital and in the future parking structure. Additionally, energy efficiency will be promoted with mechanical system selections.

Policy EP 1.7 – Encourage design concepts that maximize building efficiency such as building orientation, air circulation, and shading

RESPONSE: The buildings are oriented to maximize views from the patient tower to the surrounding Sonoran Desert views, as well as to optimize energy efficiency with its east/west axis orientation. Natural and built shading is provided throughout the site to support the use of the pedestrian network of trails and sidewalk

GOAL EP 3 - Reduce the Urban Heat Island effect in the Greater Airpark

Policy EP3.2 – Increase the use of effective natural and man-made shading for parking lots, streets, and pedestrian areas

RESPONSE: The majority of the parking fields run along the East/West axis with ample shading being provided on collector paths from the southern exposure. Additionally, the planned parking structure will provide additional parking spaces without requiring additional fields of pavement.

Policy EP3.3 – Incorporate opportunities for "cool" technologies that will help reduce the heat island effects, such as alternative pavement material, high solar reflectance building surface treatments, passive cooling elements, open spaces, and "green" roofs.

RESPONSE: The roofing will have a high solar reflectance, and the project maximizes the amount of open space to support wellness and use of the pedestrian pathways.

Policy EP3.4 – Increase tree planting as a ground-level ozone reduction measure.

RESPONSE: Tree size and quantities will adhere to the municipal code requirements throughout the site and will be aided by landscape salvage efforts for mature species integration into the campus. The densities of vegetation will increase next to areas of heavy pedestrian use and major building elements.

GOAL EP 4 - Foster a sustainable balance between environmental stewardship and the development and redevelopment of the Greater Airpark

Policy EP4.2 – Encourage all developments to respect and respond to the Sonoran Desert climate.

RESPONSE: The building is oriented to respect the Sonoran climate and pedestrian pathways are planned to have natural shading to protect pedestrian thermal comfort. The site organization allows for the direction of wind flow from the Southwest to naturally cool outdoor gathering spaces.

Policy EP4.8 – Building design should respect and enhance the Sonoran Desert context of the Greater Airpark using building orientation, landscape buffers, color, textures, materials, and lighting

RESPONSE: The Banner Health design standards were developed to be rooted in the themes of the Sonoran Desert context. The material configuration and type mimic natural landforms and textures and promote visual connectivity to the desert surroundings. The landscape design supports pedestrian movement and is aligned with the historic natural water flows through the site.

GOAL EP 5 **-** *Improve water conservation efforts and encourage the reuse of graywater*

Policy EP5.1 – Review future development impacts on water use, and encourage development design that fosters water conservation

RESPONSE: Water is a critical component to the promotion of patient wellness within the healthcare facilities. Banner Health is committed to solutions that reduce water use without compromising patient care. One such solution is through the landscape design and its emphasis on low water-use plant species.

Policy EP5.3 – Promote rainwater harvesting techniques in site planning, landscape design, and landscape improvements for all development types.

RESPONSE: Open space and pedestrian pathways are planned to either have natural bioswales to promote water movement or depressions to increase water infiltration. Basins are designed to be integrated into the natural landscape design character.

Policy EP5.4 – Encourage landscape improvements that limit the amount of turf area and make optimal use of indigenous and adapted desert plants

RESPONSE: Expansive turf areas are not planned for this development. The landscape palette will consist of indigenous and adapted desert plant species.

Policy EP5.5 – Use the City's Water Campus as an environmental education center to foster public awareness of water use and wastewater reclamation

RESPONSE: With this project's adjacency to the Water Campus, educational opportunities are planned along the continuous wellness trail along the site with signage to explain some of the benefits of the major city infrastructure components that will be visible from the site.

GOAL EP 6 - Effectively manage and protect local and regional stormwater drainage ways.

Policy EP6.1 – Establish flood control design criteria that recognizes, considers, and respects: sensitive aesthetic treatment; multiple uses that harmonize the character; and impact on wildlife habitats.

RESPONSE: The basins on the campus will be designed to convey a natural aesthetic and, like the existing washes, will promote natural habitat and native plant population. Amenities like walking trails will be integrated around the water conveyance systems.

Policy EP6.2 – Continue to monitor stormwater runoff to identify and reduce stormwater pollution.

RESPONSE: Stormwater will be treated before it leaves the site for enhanced water quality. A stormwater pollution prevention plan will be implemented to protect stormwater from pollutants prior to, during and post construction. Finally, the first flush will be retained onsite, which typically contains the highest amount of sediment and oils

Policy EP6.5 – Integrate alternative stormwater detention practices, such as rainwater harvesting and water infiltration methods.

RESPONSE: Areas of open space will provide shallow areas and depressions to promote good infiltration and will create bioswales along public pathways to promote wildlife habitat and natural landscape zones.

Character and Design Element

Goal CD 1: Enhance and strengthen the design character of Great Airpark Future Land Use Areas.

Policy CD 1.1- Promote innovative, high-quality design using specific design criteria associated with each Future Land Use Area in the Greater Airpark.

RESPONSE: The Greater Airpark Area Plan's vision for Employment Future Land Use Areas calls for buildings with "contemporary architecture, technological and corporate/executive character, campuses, and unique expressions of corporate identity." The Banner Health Medical Campus will be designed using quality materials and massing strategies that are sensitive to the local surroundings in terms of scale and massing of the freeway corridor. This campus will build off the design themes established at Banner's other medical center projects, specifically Banner Ironwood, Banner Gateway and Banner Ocotillo. The architecture and building massing are integrated with building programming that aims to relieve stress for patients, enhance wayfinding for staff and visitors, communicate a premium care delivery environment, and integrate seamlessly into the natural desert environment.

Policy CD 1.3- Encourage a variety of building shapes and heights that are appropriate in each Future Land Use Area in order to promote visual interest in the Greater Airpark Area and to promote the overall character of the specific Future Land Use Area within which they are located.

RESPONSE: Banner Health is proposing an increase in the maximum height for its main building that will be compatible with the surrounding buildings in the area and that will extend the visual interest created by the Cavasson and Axon developments at this same intersection.

Public Services and Facilities Element

Goal PSF 3: Maintain and enhance public services including public safety, human services, and customer services in the Greater Airpark.

Policy PSF 3.1- Encourage the development of additional public safety facilities, including law enforcement, emergency, and medical services, in conjunction with area growth in order to provide and maintain adequate response time.

RESPONSE: The addition of a Banner Health Medical Campus in the Greater Airpark Area will provide health care choices and support growing demand for additional medical facilities in this high growth area. Banner Health will be able to serve North Scottsdale and North Phoenix residents and provide opportunities to reduce the travel time of first responders from an emergent situation to a point of treatment and care.

9. Crossroads East PCD Analysis

All land contained within Crossroads East was previously rezoned by the City of Scottsdale to Planned Community (PCD) with a zoning bank allowance for various zoning categories to be permitted in the Planning Units as well as specifying the amount of land that may use each zoning category while placing restrictions on the number of residential units allowed. The land uses allowed in the Crossroads PCD are shown below:

		Permitted Zoning Districts in Planning Areas										
Category	Zoning	I	II	III	IV	V	VI	VII	VIII	IX	X	XI
Employment	I-1		*	*	*	*	*	*	*	*	*	*
Employment	C-O	*	*	*	*	*	*	*	*	*	*	*
Mixed Use	PRC & PCP		*	*		*	*	*		*		
Commercial	C-2/C-3		*	*	*	*	*	*	*	*	*	*
Residential	R-5	*	*	*	*	*	*	*	*			

As previously noted, the Banner Health Medical Campus is within a portion of Planning Unit IX and will be developed consistent with the Arizona State Land Department's allocation of the Commercial Office (C-O) zoning for the Property.

The proposed allocation of 48 acres for a Commercial Office use is consistent with the Crossroads East Land Use Budget allowance for Planning Unit IX. The current Crossroads East PCD Land Use Budget is shown below:

Category	Zoning	Gross Acreage	Maximum Dwelling Units per acre (DU/AC)	Maximum Allowable Dwelling Units
Employment	I-1	210	NP	NP
Employment	C-0	81	NP	NP
Mixed Use	PRC & PCP	407	See Schedule C	4,163
Commercial	C-2/C-3	170	NP	NP
Residential	R-5	132	23	2,806
Total		1,000		6,969

Modification of a PCD/Findings

Section 5.2104 of the Scottsdale Zoning Ordinance outlines the findings required for modification of a PCD. Shown below are the findings and the manner in which this proposed development meets the findings that are applicable to the request.

A. That the development proposed is in substantial harmony with the General Plan and can be coordinated with existing and planned development of surrounding areas.

   RESPONSE: As discussed in Section 6 of this narrative, the proposed Banner Health Medical Campus is in substantial conformance with the General Plan and efforts have been made to develop this project in cooperation with the Arizona State Land Department, the landowner of the Crossroads PCD, so that the development will be sensitive to existing and planned developments in this area.

B. That the streets and thoroughfares proposed are suitable and adequate to serve the proposed uses and the anticipated traffic which will be generated thereby.

   RESPONSE: At the intersection of a major arterial and a Freeway, the project is located optimally within the PCD so that visitors and employees of the hospital can enter and exit the project without penetration into the northern part of the PCD, where it is more likely that residential uses may occur. Additionally, Cavasson Boulevard will be extended on to the northern boundary of the project with a signalized intersection to provide controlled movement in all directions.

C. The Planning Commission and City Council shall further find that the facts submitted with the application and presented at the hearing establish beyond reasonable doubt that:

   1. In the case of proposed residential development, that such development will constitute a residential environment of sustained desirability and stability; that it will be in harmony with the character of the surrounding area; and that the sites proposed for public facilities, such as schools, playgrounds and parks, are adequate to serve the anticipated population. The Planning Commission and City Council shall be presented written acknowledgment of this from the appropriate school district, the Scottsdale Parks and Recreation Commission and any other responsible agency.

RESPONSE: The proposed Banner Health Medical Center does not contain any residential uses. Therefore, this finding is not applicable.

2. In the case of proposed industrial or research uses, that such development will be appropriate in area, location and overall planning to the purpose intended; and that the design and development standards are such as to create an industrial environment of sustained desirability and stability.

   RESPONSE: Similar to the previous response, though there may be research taking place at the hospital facility, the Banner Health Medical Campus will not be a research facility in the traditional sense, nor will it contain industrial uses. This finding is also not applicable to the proposed development.

3. In the case of proposed commercial, educational, cultural, recreational and other nonresidential uses, that such development will be appropriate in area, location and overall planning to the purpose intended; and that such development will be in harmony with the character of the surrounding areas.

   RESPONSE: The proposed medical campus is planned to be of a similar size and scale as the closest planned and developed properties in the area: the Cavasson/Nationwide complex on the west side of Hayden Road, and the Axon headquarters on the south side of the Loop 101 Freeway. The Cavasson complex, at full completion, will include approximately 1.8 million square feet of office space, 1,560 residences a hotel, and other restaurants and amenities. Cavasson is approved for 115-feet in building height and has currently developed at 85-feet. Similarly, the Axon headquarters south of the Loop 101 Freeway, which is under development, has an approved height of 94-feet, and will have approximately 375,000 square feet of office and industrial uses. These two developments provide the surrounding context for the Banner Health Medical Campus, which will feature over 950,000 square feet, and have a maximum height of 94 feet. Together, the three developments will provide a gateway at this visible and important intersection in Scottsdale that will be reflective of the Crossroads East PCD goal of establishing regional uses at this location.

10. Scottsdale Sensitive Design Program

The Scottsdale Sensitive Design Program is a comprehensive compilation of policies and guidelines related to the City's built environment. The basic framework for these policies and guidelines is the *Sensitive Design Principles*. These principles are derived from existing city policies and from concepts developed by citizen groups, such as Great Sonoran, and articulate Scottsdale's design vision and outline design expectations and values. Shown below are each of the principles and the way in which the Banner Health Campus will implement it.

1. The design character of any area should be enhanced and strengthened by new development.

   RESPONSE: The design of this campus is consistent with the surrounding development along the freeway corridor and will add value through the use placement in proximity to other uses. The natural desert context will be supported through the landscape design and open space planning.

2. Development, through appropriate siting and orientation of buildings, should recognize and preserve established major vistas, as well as protect natural features.

   RESPONSE: The buildings are oriented to maximize views for the patient towers to the surrounding Sonoran Desert views, as well as to optimize energy efficiency with its east and west axis orientation. Natural and built shading is provided throughout the site to support the use of the pedestrian network of trails and sidewalk.

3. Development should be sensitive to existing topography and landscaping.

   RESPONSE: The buildings follow the natural descent of the site to allow for the pedestrian network of trails to engage the natural topography. A natural desert palette will be developed for the landscaping and will be aided by an appropriate salvage of existing species on site.

4. Development should protect the character of the Sonoran Desert by preserving and restoring natural habitats and ecological processes.

   RESPONSE: The open space network seeks to restore and redevelop the natural desert conditions on the site. Generally, the existing water

conveyance through the site is maintained through the planning with the existing topography. Basins and bio-swales will be paired with walking trails and a pedestrian network of paths to allow for connectivity with the natural systems.

5. The design of the public realm, including streetscapes, parks, plazas and civic amenities, is an opportunity to provide identity to the community and to convey its design expectations

   RESPONSE: This project seeks to promote a healing environment through its programmatic mission, as well as with its site design and building architecture. Community pathways are preserved and connections are enhanced with this development.

6. Developments should integrate alternative modes of transportation, including bicycle and bus access, within the pedestrian network that encourages social contact and interaction within the community.

   RESPONSE: EV charging stations and bicycle parking are provided throughout the campus. There are no bus network connections in this area of Scottsdale. A public pathway node has been planned along Hayden Road, to allow long distance cyclists a place of respite as they connect to the Northern portion of Scottsdale along Hayden Rd.

7. Development should show consideration for the pedestrian by providing landscaping and shading elements as well as inviting access connections to adjacent developments.

   RESPONSE: Most of the pedestrian routes to entrances on the campus run in an east/west direction and are shaded from the southern exposure by proposed landscaping. A continuous walking trail is provided around the perimeter of the site to allow for visitors to connect with the natural desert and enjoy the views outward from the site.

8. Buildings should be designed with a logical hierarchy of masses.

   RESPONSE: Each of the building entries use are marked by a material designation and varied height to identify the entry to the facility. In a healing environment, intuitive wayfinding is critical, and the Banner Health design standards promote this strategy. As an example, the open space and road

alignment visually leads even the most anxious visitor to the campus, an Emergency Department patient, directly to the Emergency entry without having to search for signage.

9. The design of the built environment should respond to the desert environment.

   RESPONSE: The massing of the buildings on the site are aligned with the solar orientation as well as in response to the naturally ventilating winds that will flow through the campus. Additionally, planned open spaces are located adjacent to the structures. Views to the surrounding desert context are promoted from this site by the strategic placement of the buildings.

10. Developments should strive to incorporate sustainable and healthy building practices and products.

    RESPONSE: Banner Health is committed to energy efficient strategies and the use of health building practices. Prefabrication is utilized during construction to limit the amount of waste onsite, and healthy products are utilized on the interior to promote a healing environment.

11. Landscape design should respond to the desert environment by utilizing a variety of mature landscape materials indigenous to the arid region.

    RESPONSE: The landscape palette will build off the salvaged inventory of indigenous landscape materials on the site to create a new experience that will celebrate the existing desert context.

12. Site design should incorporate techniques for efficient water use by providing desert adapted landscaping and preserving native plants.

    RESPONSE: As previously noted, water is a critical component to the promotion of patient wellness within the healthcare facilities. Banner Health is committed to solutions that reduce water use without compromising patient care. One such solution is through the landscape design and its emphasis on low water-use plant species. Additionally, open space and pedestrian pathways are planned to either have natural bioswales to promote water movement or depressions to increase water infiltration. Basins are designed to be integrated into the natural landscape design character. And finally, large turf areas are not planned for this development. Instead, the landscape palette will consist of indigenous and adapted desert plant species.

13. The extent and quality of lighting should be integrally designed as part of the built environment.

    RESPONSE: Exterior lighting will be selected to promote safe nighttime access to the healthcare facilities and support wayfinding to and within the campus, while being cognizant of the dark sky principles in this part of Scottsdale.

14. Signage should consider the distinctive qualities and character of the surrounding context in terms of size, color, location and illumination.

    RESPONSE: Banner Health's signage program uses materials from the building composition that are rooted in themes from the Sonoran Desert. The placement, size, and illumination support appropriate, timely and safe wayfinding practices for both vehicles and pedestrian access.

11. Conditional Use Permit Overview

As previously noted, this application includes a request to the City of Scottsdale for approval of a Conditional Use Permit to allow a hospital use with a helipad in a C-O zoning district. Section 1.401 of the Scottsdale Zoning Ordinance specifies that a Conditional Use Permit (CUP) may only be granted after the Planning Commission has made a recommendation to the City Council after finding:

A. That the granting of such conditional use permit will not be materially detrimental to the public health, safety or welfare. In reaching this conclusion, the Planning Commission and the City Council's consideration shall include, but not be limited to, the following factors:

    1. Damage or nuisance arising from noise, smoke, odor, dust, vibration or illumination.

       RESPONSE: Hospitals and medical office buildings do not generate noise, smoke, odor, dust vibration or excess illumination. The only potential sources of noise at the site, the helipad, has been located on the site at ground level, and is approximately one-half mile from the closest residential property. Any use of the helipad would be intermittent and would comply with the City of Scottsdale noise ordinance.

2. Impact on surrounding areas resulting from an unusual volume or character of traffic.

   RESPONSE: The location of the site at the intersection of Hayden Road and the Loop 101 Freeway allows for the anticipated traffic volume to be managed and evenly dispersed throughout the greater North Scottsdale area as detailed in the Traffic Impact Analysis provided in the application materials. Recommended traffic mitigation measures will be implemented to ensure that all traffic will be addressed in the safest manner possible and to encourage minimal wait times at signalized intersections.

B. The characteristics of the proposed conditional use are reasonably compatible with the types of uses permitted in the surrounding areas.

   RESPONSE: As mentioned elsewhere in this narrative, the Banner Health Medical Campus will be developed as a Commercial Office (C-O) use that will be similar in size and scale to the Cavasson development to the west of the site, across Hayden Road. Additionally, the Axon headquarters that is under development, though an industrial use, will be similar in height and massing to the Banner campus.

12. Additional Conditions for Specific Conditional Uses- Hospitals

Section 1.403.J.2 prescribes additional conditions that must be met when a Hospital is evaluated for a Conditional Use Permit. Each of the additional conditions are shown below, and the manner in which this application satisfies the criteria is shown in bold text.

1. The application shall include written proof the proposal meets all state and county regulations.

   RESPONSE: Throughout the development process, the proposed use will meet all required State, County and Federal regulations. There are regulations from the FAA for development within the Airpark area, and

regulations from FEMA regarding floodplain development. Additionally, there are state requirements for medical reporting and licensing and local regulations for permitting and inspections.

2. Building height (excluding rooftop appurtenances). Maximum: seventy-five (75) feet.

   RESPONSE: With this PCD zoning request, a modification of the maximum building height from 75-feet to 94-feet for the structures that carry the "Patient Tower" designation as shown on the Building Height Section exhibit provided with the 2nd submittal materials is requested. This request is proposed as modifications to Code Sections 1.403 and 7.101 and are applicable to this site only.

3. Required open space.

   a. Minimum open space: 0.24 multiplied by the net lot area, distributed as follows.

      RESPONSE: The net site area is 1,879,178 square feet, and the required minimum amount of open space is 450,673 square feet (1,879,178 x .24). The proposed site design features 1,347,126 square feet of open space.

      i. Frontage open space minimum: 0.75 multiplied by the minimum open space, except as follows:

         (1) Minimum: thirty (30) square feet per one (1) linear foot of public street frontage.

            RESPONSE: There is 2,876 linear feet of frontage along Hayden Road and Cavasson Boulevard. Accordingly, 86,280 square feet of open space is required along the frontages. As shown on the Open Space Plan, this proposed design features 131,553 square feet of frontage open space.

         (2) Not required to exceed fifty (50) square feet per one (1) linear foot of public street frontage.

      ii. The remainder of the minimum open space, less the frontage open space, shall be provided as common open space.

RESPONSE: The remaining 896,390 square feet of open space shown in the plan is provided in the form of parking lot landscaping and other landscaped areas on the property.

4. Yards. When the height of the building exceeds sixty (60) feet the following yard requirements shall apply. If building height is less than sixty (60) feet the district yard requirements shall apply.

   RESPONSE: While the height of the patient tower will exceed sixty (60) feet, the yard requirements shown below do not apply since this property does not abut a residential district.

   a. Side Yard.

      i. A side yard of not less than 100 feet shall be maintained where the side of the lot abuts a single-family residential district, or abuts an alley which is adjacent to a single-family residential district, shown on Table 4.100.A., or the single-family residential portion of a Planned Community P-C or any portion of a Planned Residential Development PRD with an underlying single-family residential district comparable to the residential districts shown on Table 4.100.A. The 100 feet may include the width of the alley.

         RESPONSE: This criterion is not applicable—the site does not abut a single-family residential district.

      ii. A side yard of not less than seventy-five (75) feet shall be maintained where the side lot abuts a multiple-family residential district. The seventy-five (75) feet may include any alley adjacent to the multiple-family residential district.

         RESPONSE: This criterion is not applicable—the site does not abut a multi-family residential district.

   b. Rear Yard.

      i. A rear yard of not less than one hundred (100) feet shall be maintained where the rear lot abuts a single-family residential district or abuts an alley which is adjacent to the single-family residential district, shown on

Table 4.100.A., or the single-family residential portion of a Planned Community P-C or any portion of a Planned Residential Development PRD with an underlying single-family residential district comparable to the residential districts shown on Table 4.100.A. The one hundred (100) feet may include the width of the alley.

RESPONSE: This criterion is not applicable—the site does not abut a single-family residential district.

ii. A rear yard of not less than seventy-five (75) feet shall be maintained where the rear lot abuts a multiple-family residential district or abuts an alley which is adjacent to the multiple-family residential district. The seventy-five (75) feet may include the width of the alley.

RESPONSE: This criterion is not applicable—the site does not abut a multi-family residential district.

13. On-Site Circulation and Traffic

As previously noted, the main entry to the site will be off Hayden Road, with two additional entries on Cavasson Boulevard. Signage will be provided at the main entry directing visitors to the main hospital building, cancer center and medical office building. Ample surface parking will be provided, and as the site develops, a parking structure close to Cavasson will be provided to serve the parking needs of increased patient and staff populations.

To separate service traffic from visitor traffic, all of the building services and emergency traffic will be directed to the easternmost entrance on Cavasson. A service drive is provided along the eastern portion of the site. Ambulance traffic will use this entry point as it will have a dedicated emergency access to the emergency department. The ground helipad is also located in this service zone and serves as a helicopter "parking' spot". The easternmost access point on Cavasson will also serve as a service entry for the City's lift station in the southeast corner of the site.

A Traffic Impact Analysis (TIA) has been provided that evaluates the traffic impact from this project from the projected opening day in 2025, through 2042, when the project is expected to reach full buildout. There are several mitigation strategies that are proposed within the TIA that include:

- Right turn lanes at all entrances to the project for easy entrance to the project;
- Provide dedicated left turn lanes into the site from Hayden Road.

- Enlarged driveways to provide separate left and right turn egress lanes to reduce vehicle queues within the parking lot;

These mitigation strategies are recommended to take place over the development of the healthcare campus over the next 20 years. Banner Health will work closely with the City of Scottsdale traffic and engineering departments to ensure that the traffic anticipated in this area is dispersed in the safest and most efficient manner possible.

14. Water/Sewer

The Banner Health Medical Campus lies within Planning Unit IX of the Crossroads East PCD. Within this planning unit, there is an existing 24-inch water main that runs east-west through Hualapai Drive/Legacy Blvd and an existing 16-inch ductile-iron pipe (DIP) water main that runs north-south in Hayden Road. Another existing 16-inch asbestos concrete pipe (ACP) water main connects to the water main in Hayden Road and runs east-west through the south side of the site. This 16-inch ACP water main is in conflict with the proposed hospital buildings and will be relocated to run through the drive lane south of the proposed hospital buildings. As a part of the master plan of Planning Unit IX, a future water main is proposed to run east-west in the Cavasson extension and north-west in the Cavasson Connection Road to the existing 24-inch water main in Hualapai Drive. On-site public water mains will be provided to loop through the Property and provide domestic and fire service to the proposed buildings. Fire hydrants will be spaced throughout the site to meet fire code requirements. All water mains will be sized for domestic and fire flow demands. Please refer to the water exhibit provided for additional notes and information.

15. Conclusion

The proposed Banner Health Medical Campus will be a high-value employment center at this important location in the City of Scottsdale. The campus is planned to serve the healthcare needs of the existing and future population of North Scottsdale and North Phoenix. The proposed Banner development advances the goals and policies stated within the newly-adopted General Plan and the Scottsdale Airpark Character Area Plan. It is consistent with the vision and approved zoning for the Crossroads East Planned Community District and incorporates design principles that are sensitive to the unique

desert and built environment. Moreover, this project meets the criteria for a Planned Commercial Development Modification and Conditional Use Permit. The development team looks forward to receiving input from City of Scottsdale staff on this exceptional development opportunity.

16. Development Team

Property Owner:

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Applicant/Developer:

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Project Manager
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17. List of Exhibits

A) Legislative Draft of the Proposed Development Standards Amendments
B) Context Aerial
C) Site Photographs
D) Site Plan
E) Refuse Plan
F) Open Space Plan
G) Phasing Plan
H) Landscape Plan
I) Hardscape Plan
J) Parking Plan
K) Pedestrian and Vehicular Circulation Plan
L) Conceptual Elevations
M) Exterior Site Photometry Plan
N) Manufacturer's Cut Sheets of Proposed Exterior Lighting
O) Buffered Roadway Exhibit
P) Maximum Building Height Exhibit
Q) Site Section Height Exhibit

Exhibit A:

Legislative Draft of Development Standards Amendments

Legislative Draft of Amended Development Standards

In order to accommodate Banner Health's proposed building height, we are requesting text amendments to two sections of the City of Scottsdale Zoning Ordinance. The proposed amendments are shown below:

Sec. 1.403. Additional conditions for specific conditional uses

J. Hospital.

1. The application shall include written proof the proposal meets all state and county regulations.
2. Building height (excluding rooftop appurtenances). Maximum: ~~seventy-five (75)~~ **ninety-four (94)** feet **for this site only**.
3. Required open space.
    a. Minimum open space: 0.24 multiplied by the net lot area, distributed as follows.
        i. Frontage open space minimum: 0.75 multiplied by the minimum open space, except as follows:
            (1) Minimum: thirty (30) square feet per one (1) linear foot of public street frontage.
            (2) Not required to exceed fifty (50) square feet per one (1) linear foot of public street frontage.
        ii. The remainder of the minimum open space, less the frontage open space, shall be provided as common open space.
4. Yards. When the height of the building exceeds sixty (60) feet the following yard requirements shall apply. If building height is less than sixty (60) feet the district yard requirements shall apply.
    b. Side Yard.
        i. A side yard of not less than 100 feet shall be maintained where the side of the lot abuts a single-family residential district, or abuts an alley which is adjacent to a single-family residential district, shown on Table 4.100.A., or the single-family residential portion of a Planned Community P-C or any portion of a Planned Residential Development PRD with an underlying single-family residential district comparable to the residential districts shown on Table 4.100.A. The 100 feet may include the width of the alley.

ii. A side yard of not less than seventy-five (75) feet shall be maintained where the side lot abuts a multiple-family residential district. The seventy-five (75) feet may include any alley adjacent to the multiple-family residential district.

c. Rear Yard.

i. A rear yard of not less than one hundred (100) feet shall be maintained where the rear lot abuts a single-family residential district, or abuts an alley which is adjacent to the single-family residential district, shown on Table 4.100.A., or the single-family residential portion of a Planned Community P-C or any portion of a Planned Residential Development PRD with an underlying single-family residential district comparable to the residential districts shown on Table 4.100.A. The one hundred (100) feet may include the width of the alley.

ii. A rear yard of not less than seventy-five (75) feet shall be maintained where the rear lot abuts a multiple-family residential district or abuts an alley which is adjacent to the multiple-family residential district. The seventy-five (75) feet may include the width of the alley.

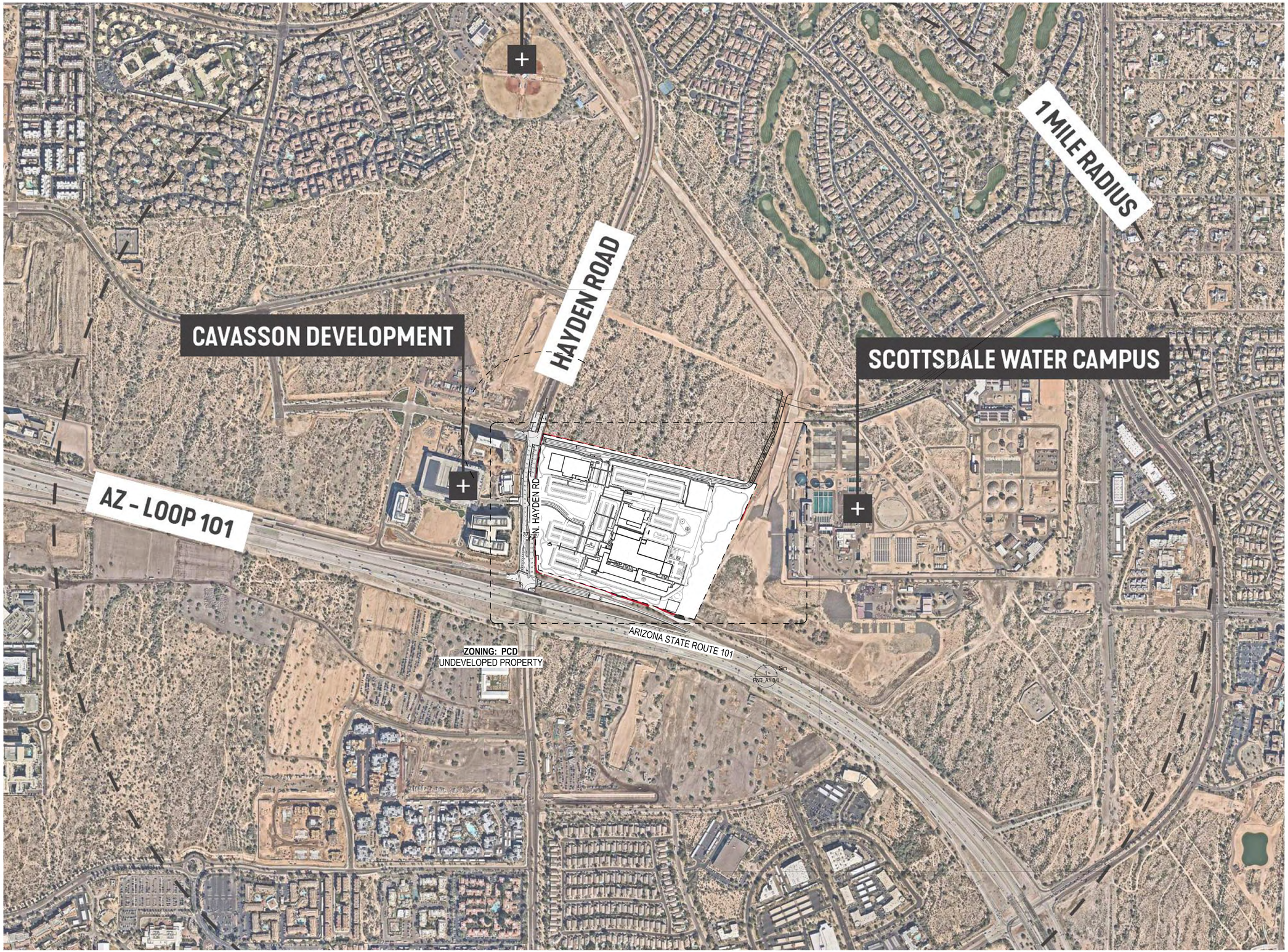
Sec. 7.101. Permissible heights of sixty (60) and seventy-five (75) feet.

A. Public, semi-public or public service buildings, hospitals, or schools, when permitted in a district, may be erected to a height not exceeding sixty (60) feet, if the building is set back from each yard line at least one (1) foot for each two (2) feet of additional building height above the height limit otherwise provided in the district in which the building is located.

B. Churches and temples and hospitals with a use permit may be erected to a height not exceeding ~~seventy-five (75)~~ **ninety-four (94)** feet **for this site only** if the building is set back from each yard line at least one (1) foot for each two (2) feet of additional building height above the height limit otherwise.

Exhibit B:

Context Aerial



OVERALL AERIAL PLAN
SCALE: 1" = 400'-0"

NORTH

0 400' 800' 1200'
GRAPHIC SCALE: 1" = 400' - 0"

Plot Date: 4/18/2022 2:41:26 PM Author

Banner Project C
Medical Center

SCOTTSDALE CAMPUS HOSPITAL
Hayden Rd & Loop 101 Frontage Rd
Scottsdale, Arizona 85255

SMITHGROUP
455 NORTH THIRD STREET
SUITE 250
PHOENIX, AZ 85004
602.265.2200
smithgroup.com

ISSUED FOR	REV	DATE
ENTITLEMENT REVIEW		15APR22

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

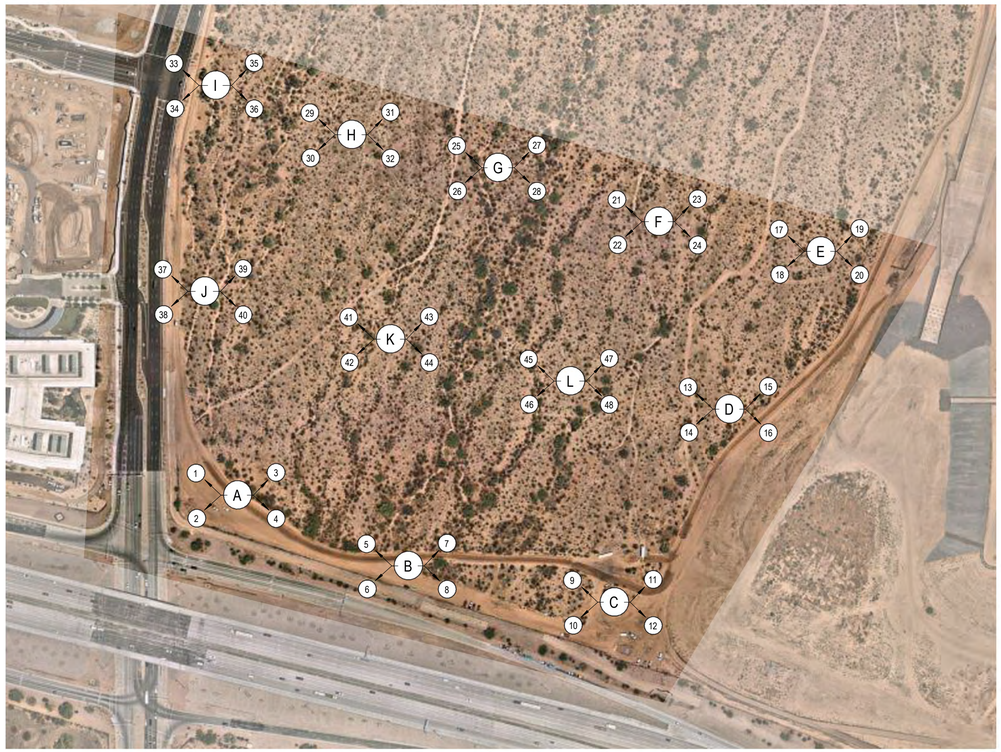
SHEET TITLE
OVERALL AERIAL PLAN

PROJECT NUMBER
ENT_A1.0.0
SHEET NUMBER

5-ZN-2022
9/20/2022

Exhibit C:

Site Photographs



SITE CONTEXT PLAN

Author

4/18/2022 2:41:36 PM

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SHEET TITLE

CONTEXT PHOTOGRAPHS

PROJECT NUMBER

ENT_A1.0.2

SHEET NUMBER

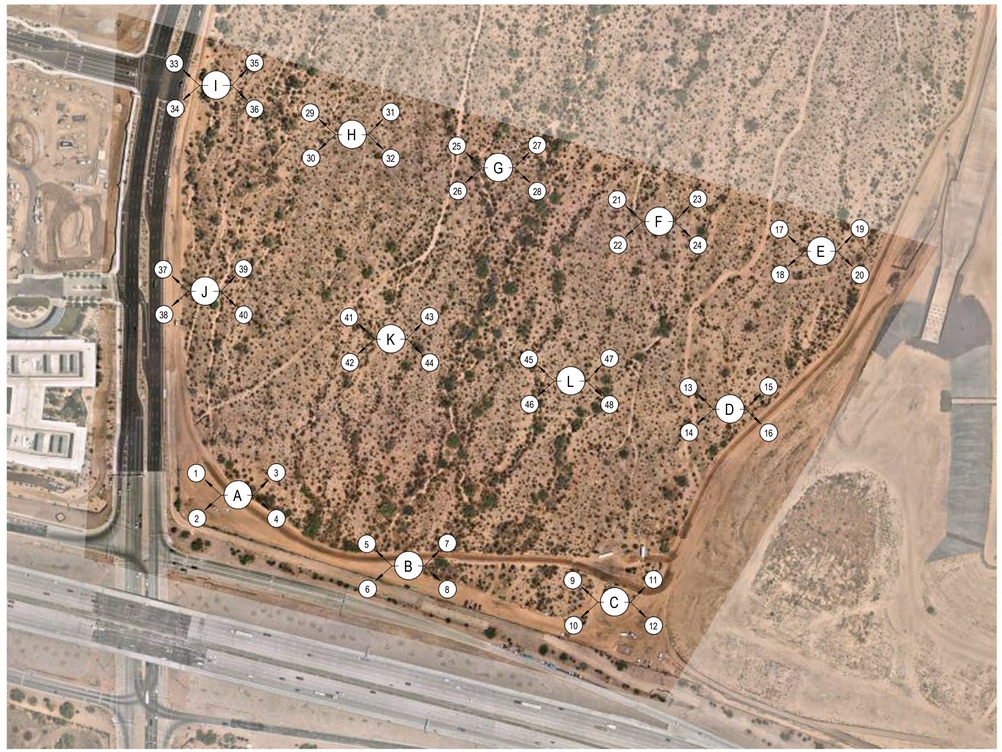
5-ZN-2022
9/20/2022


C-9


C-10


C-11


C-12



SITE CONTEXT PLAN


D-13


D-14


D-15


D-16

Author

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SHEET TITLE

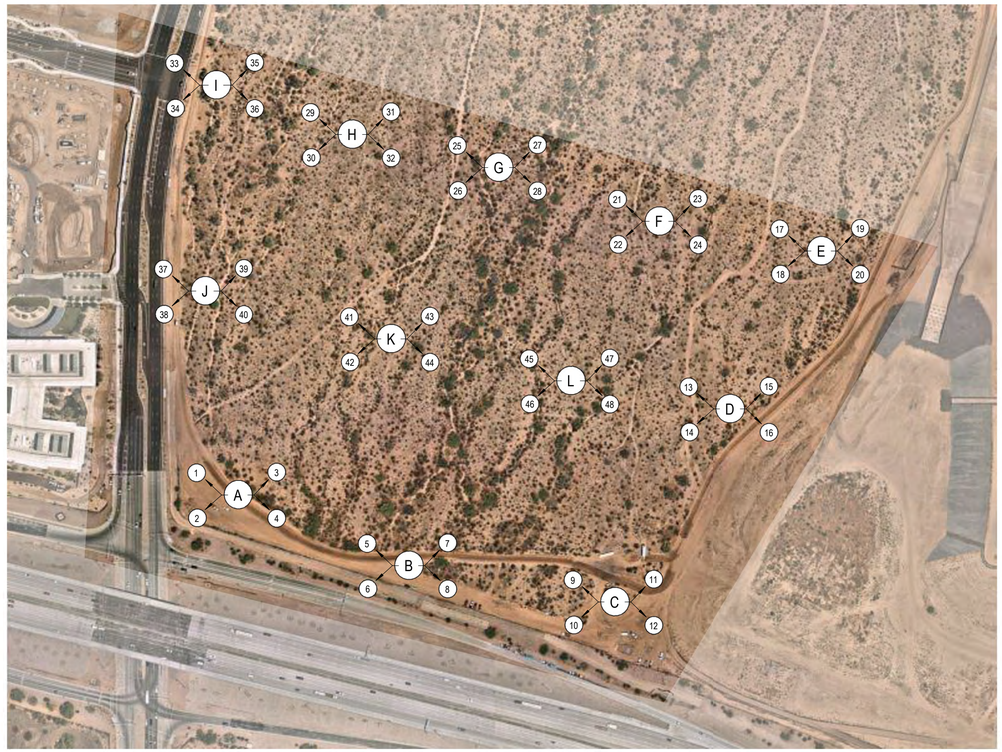
CONTEXT PHOTOGRAPHS

PROJECT NUMBER

ENT_A1.0.3

SHEET NUMBER

5-ZN-2022
9/20/2022



SITE CONTEXT PLAN

Author

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SHEET TITLE

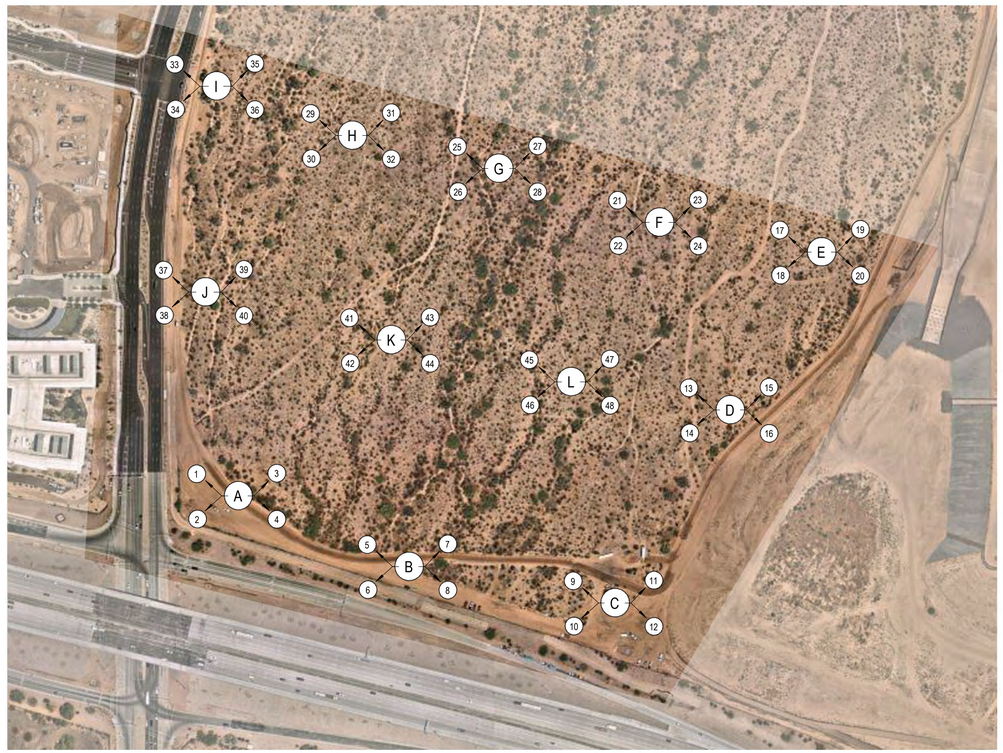
CONTEXT PHOTOGRAPHS

PROJECT NUMBER

ENT_A1.0.4

SHEET NUMBER

5-ZN-2022
9/20/2022



SITE CONTEXT PLAN

Author

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SEALS AND SIGNATURES

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SHEET TITLE

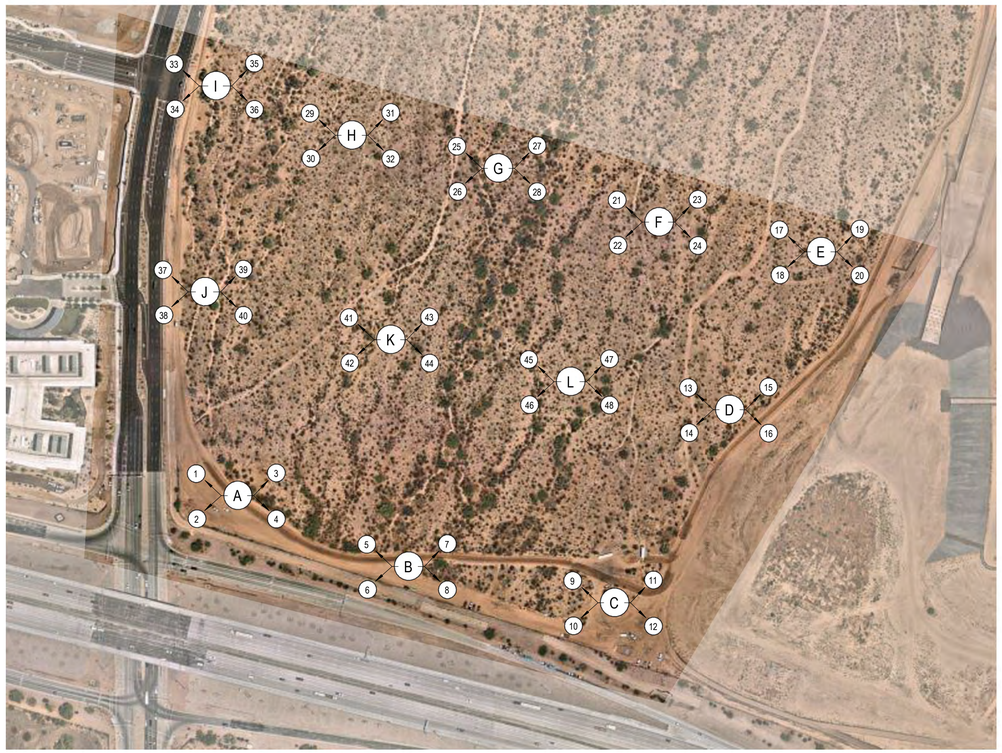
CONTEXT PHOTOGRAPHS

PROJECT NUMBER

ENT_A1.0.5

SHEET NUMBER

5-ZN-2022
9/20/2022



SITE CONTEXT PLAN

Author

4/18/2022 2:41:47 PM

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SCOTTSDALE CAMPUS HOSPITAL

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SEALS AND SIGNATURES

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SHEET TITLE

CONTEXT PHOTOGRAPHS

PROJECT NUMBER

ENT_A1.0.6

SHEET NUMBER

5-ZN-2022
9/20/2022

SITE CONTEXT PLAN

Author

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Plot Date:

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SHEET TITLE

CONTEXT PHOTOGRAPHS

PROJECT NUMBER

ENT_A1.0.7

SHEET NUMBER

5-ZN-2022
9/20/2022

Exhibit D:

Site Plan

PROJECT VICINITY MAP

PROPOSED SITE IMPROVEMENTS

1. PRIVATE WELLNESS TRAIL AND WALKING PATH
2. FUTURE DEVELOPMENT, TBD.
3. PARKING CANOPIES (PV READY)
4. COMMUNITY SHADE STRUCTURE
5. HEALING GARDEN
6. LIFT STATION ACCESS
7. STAFF PATIO / RESPITE
8. BUILDING SIGNAGE
9. MODIFY OFF-SITE MEDIAN FOR TURN-LANE
10. SITE RESPITE / GATHERING
11. RE-ROUTE EXISTING 16" WATER LINE INTO 50' R.O.W.
12. OFF-SITE DRAINAGE EASEMENT

CONCEPTUAL DRAFT - SUBJECT TO CHANGE

MASTER PLAN PROJECT DATA

ZONING:	PCD
PROPOSED USE:	HOSPITAL / MOB / ASC / CANCER CENTER
SITE AREA:	50.83 GROSS ACRES

SETBACKS

LANDSCAPE SETBACKS	
HAYDEN ROAD	40'-0"
GENERAL	20'-0"

HOSPITAL DEVELOPMENT

PROPOSED USE	HOSPITAL
PROPOSED MAX. BUILDING HEIGHT	94'-0"*
PROPOSED LEVELS	1-5 STORIES
PROPOSED BUILDING AREA	
PHASE 1	384,000 SF
FUTURE	301,500 SF
TOTAL	685,500 SF
PROPOSED LICENSED BEDS	300
PROPOSED OBSERVATION BEDS	20

CANCER CENTER

PROPOSED USE	MEDICAL OFFICE
PROPOSED MAX. BUILDING HEIGHT	55'-0"*
PROPOSED LEVELS	3
PROPOSED BUILDING AREA	90,000 SF

MEDICAL OFFICE BUILDING / ASC

PROPOSED USE	MEDICAL OFFICE
PROPOSED MAX. BUILDING HEIGHT	55'-0"*
PROPOSED LEVELS	3
PROPOSED BUILDING AREA	
PHASE 1	120,000 SF
FUTURE	55,500 SF
TOTAL	175,500 SF

PARKING STRUCTURE (2 PHASES)

PROPOSED USE	PARKING
PROPOSED MAX. BUILDING HEIGHT	45-0"
PROPOSED LEVELS	4

70' 0 35' 70' 140'

GRAPHIC SCALE: 1"=70'

CONCEPT MASTER SITE PLAN (HOSPITAL + CANCER CENTER + MOB) - SUBJECT TO CHANGE

08.31.2022

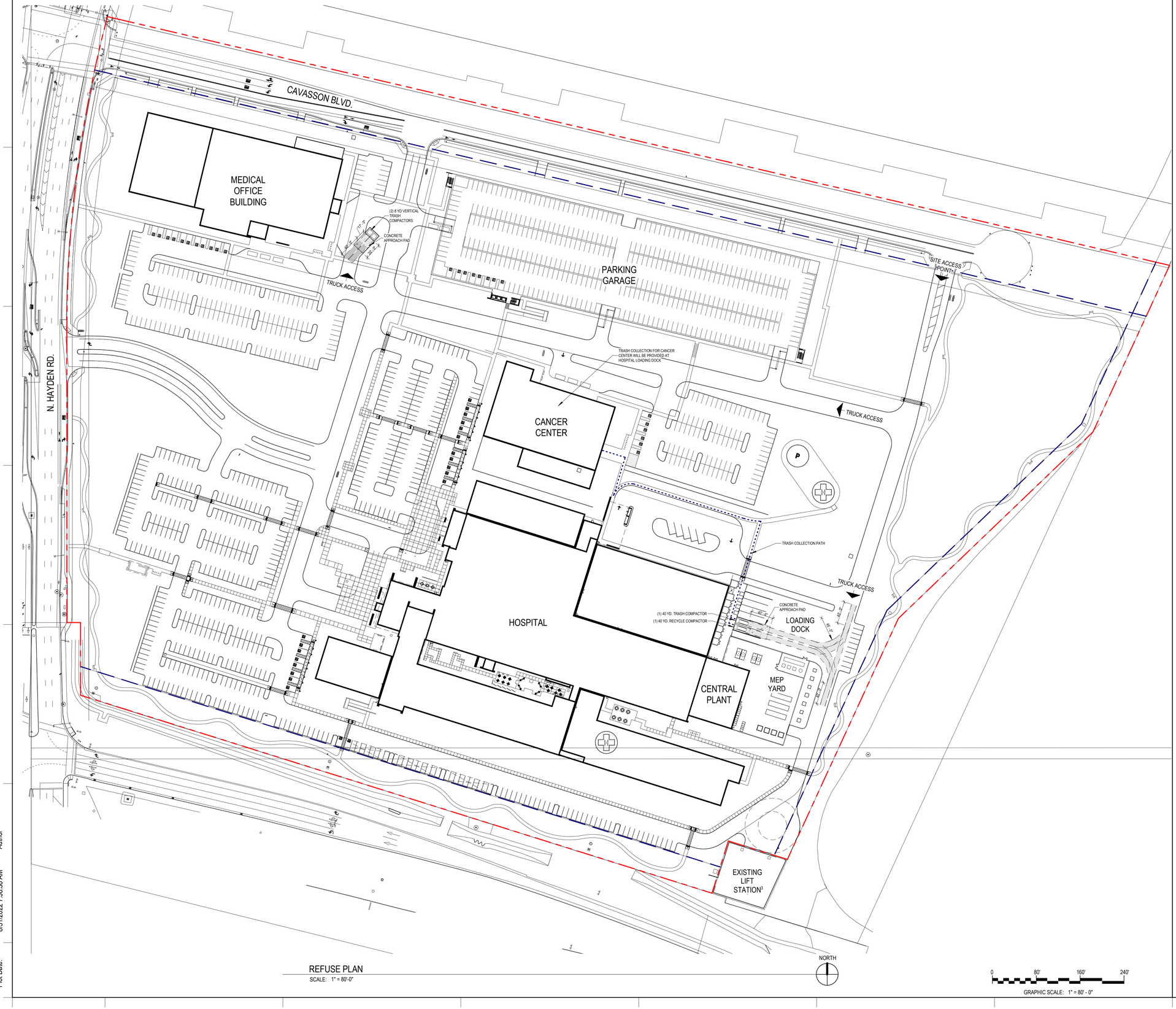
Banner Health. SCOTTSDALE MEDICAL CENTER

OKLAND SMITHGROUP

5-ZN-2022
9/20/2022

Exhibit E:

Refuse Plan



REFUSE PLAN
SCALE: 1" = 80'-0"

Author
8/31/2022 7:38:38 AM
Plot Date:

Banner Project C
Medical Center

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SEALS AND SIGNATURES

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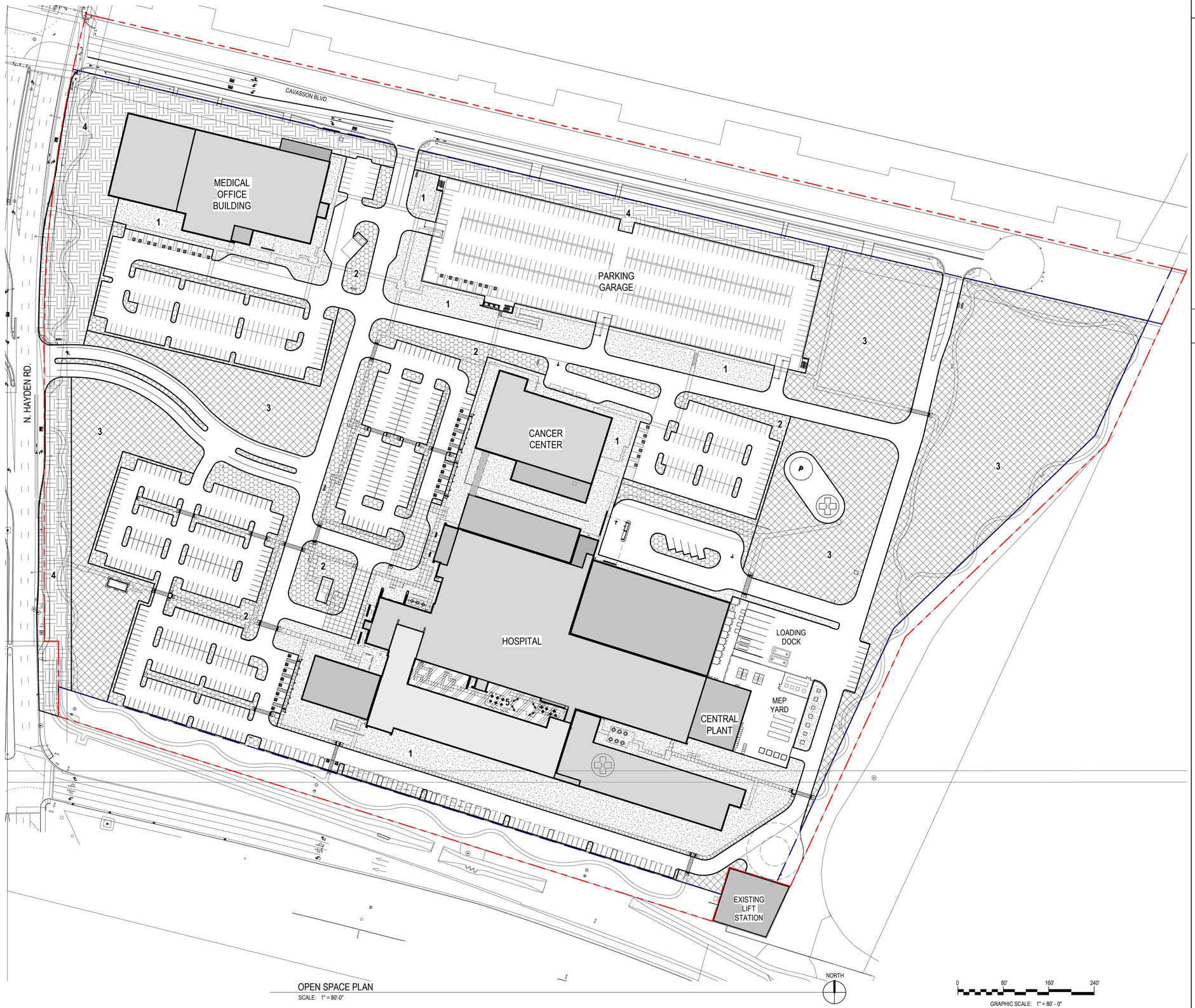
SHEET TITLE
REFUSE PLAN

PROJECT NUMBER
ENT_A1.2.1
SHEET NUMBER

5-ZN-2022
9/20/2022

Exhibit F:

Open Space Plan



OPEN SPACE PLAN
SCALE: 1" = 80'-0"

GRAPHIC SCALE: 1" = 80' - 0"

GRAPHIC LEGEND

1	PERIMETER OPEN SPACE: 205,987 SQ. FT.
2	PARKING LOT LANDSCAPE: 127,284 SQ. FT.
3	RETENTION OPEN SPACE: 355,380 SQ. FT.
4	FRONT OPEN SPACE: 131,553 SQ. FT.
5	COURTYARD: 11,658 SQ. FT.
	BUILDING FOOTPRINT
	PROPERTY BOUNDARY
	UTILITY EASEMENT

OPEN SPACE CALCULATION

SITE AREA (GROSS):	2,214,155 SQ. FT.
SITE AREA (NET):	1,879,178 SQ. FT.
REQUIRED OPEN SPACE: *SECTION 1.403.J*	
NET SITE AREA X 0.24	450,763 SQ. FT.
TOTAL REQUIRED OPEN SPACE:	**450,763 SQ. FT.**
SITE AREA (GROSS)	2,214,155 SQ. FT.
PARKING AREA	-464,426 SQ. FT.
PARKING LOT LANDSCAPE AREA	-127,239 SQ. FT.
BUILDING FOOTPRINT (1ST FLOOR)	-237,500 SQ. FT.
LOADING ZONE	-37,864 SQ. FT.
TOTAL PROVIDED OPEN SPACE:	**1,347,126 SQ. FT.**

REQUIRED FRONTAGE OPEN SPACE: *SECTION 1.403.J*

30 SQ. FT. PER 1 LINEAR FT. OF PUBLIC STREET	
HAYDEN ROAD LINEAR FT.	1,133 LINEAR FT.
CAVASSON BLVD. LINEAR FT.	1,743 LINEAR FT.
30 X (1,133 + 1,743)	86,280 SQ. FT.
TOTAL PROVIDED FRONTAGE OPEN SPACE:	**131,553 SQ. FT.**

REQUIRED PARKING LOT LANDSCAPING: *SECTION 10.501.H.2*

(PARKING LOT AREA x 15%) (464,426 x 0.15)	
TOTAL REQUIRED PARKING LOT LANDSCAPING:	69,664 SQ. FT.
TOTAL PROVIDED PARKING LOT LANDSCAPING: (INCLUDES HARDSCAPE)	**127,239 SQ. FT.**

Banner Project C Medical Center

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SHEET TITLE

OPEN SPACE PLAN

PROJECT NUMBER

ENT_A1.3.1

SHEET NUMBER

Plot Date: 8/31/2022 7:38:41 AM Author

5-ZN-2022
9/20/2022

Exhibit G:

Phasing Plan

SITE PLAN - PHASING PLAN
SCALE: 1" = 80'-0"

NORTH

0 80' 160' 240'
GRAPHIC SCALE: 1" = 80' - 0"

PHASE 1

1A:

1A.1 - DIAGNOSTICS AND TREATMENT (2 STORIES):	= 204,000 SF
1A.2 - PATIENT TOWER AND CONNECTION (5 STORIES):	= 170,000 SF
1A.3 - CENTRAL PLANT (1 STORIES):	= 10,000 SF

1B:

1B.1 - MEDICAL OFFICE BUILDING / ASC (3 STORIES):	= 120,000 SF
SUBTOTAL:	**= 504,000 SF**

PHASE 2

2A:

2A.1 - DIAGNOSTICS AND TREATMENT (2 STORIES):	= 32,000 SF

2B:

2B.1 - CANCER CENTER (3 STORIES):	= 90,000 SF
2B.2 - BRIDGE CONNECTION (@ 2ND LEVEL ONLY):	= 1,250 SF
2B.3 - PARKING STRUCTURE (4 STORIES):	= 251,200 SF

2C:

2C.1 - MEDICAL OFFICE BUILDING (3 STORIES):	= 55, 500 SF
SUBTOTAL:	**= 429,950 SF**

PHASE 3

3A:

3A.1 - DIAGNOSTICS AND TREATMENT (2 STORIES):	= 72,000 SF
3A.2 - PATIENT TOWER & CONNECTION (5 STORIES):	= 145,000 SF
3A.3 - PARKING STRUCTURE (4 STORIES):	= 265,800 SF
SUBTOTAL:	**= 482,800 SF**

PHASE 4

4A:

4A.1 - NICU / PATIENT TOWER (4 STORIES:	= 52,500 SF
SUBTOTAL:	**= 52,500 SF**

OVERALL COMPUS TOTAL: = 1,468,750 SF

Banner Project C Medical Center

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SEALS AND SIGNATURES

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SHEET TITLE
PHASING PLAN

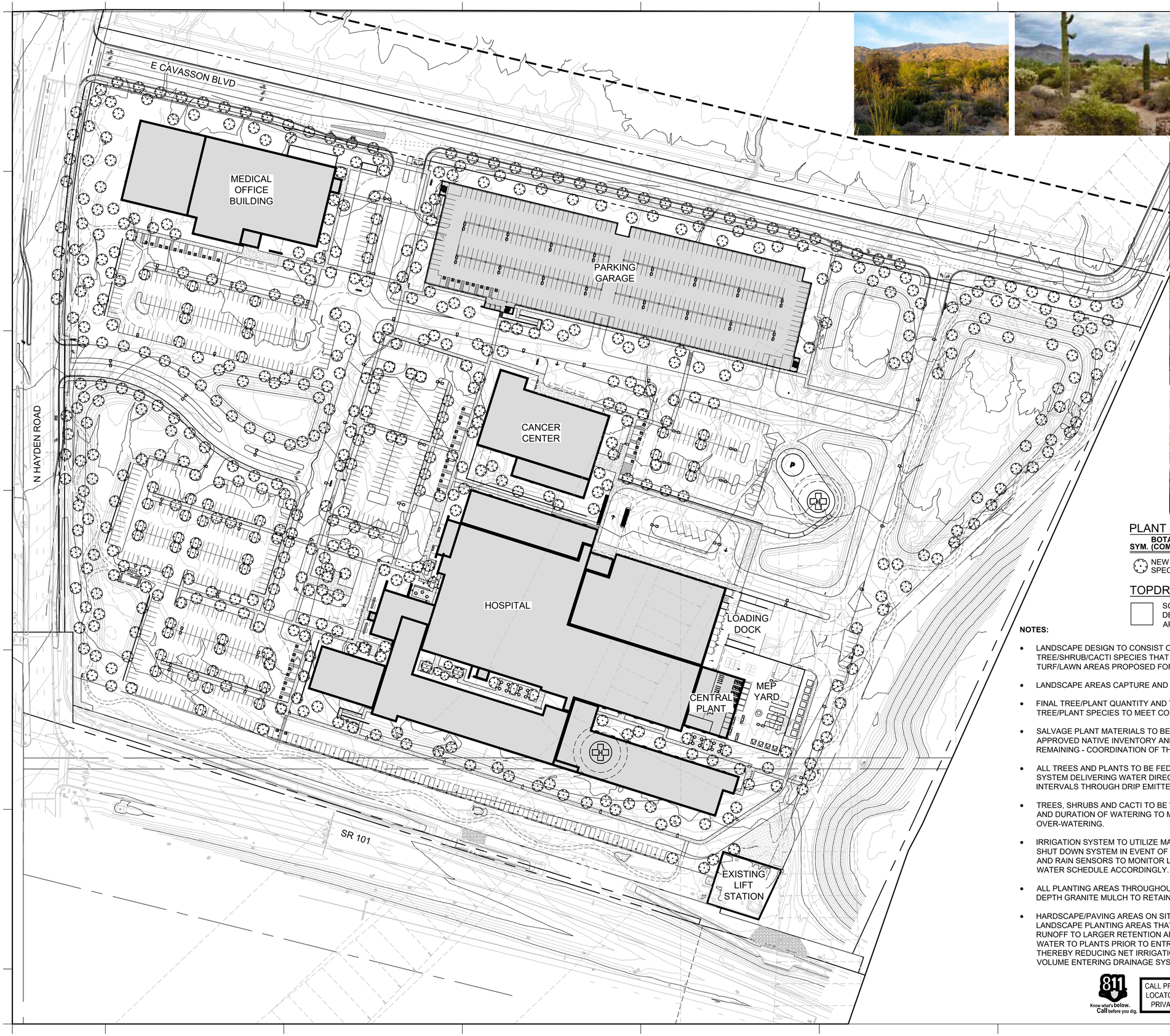
PROJECT NUMBER
ENT_A1.4.1
SHEET NUMBER

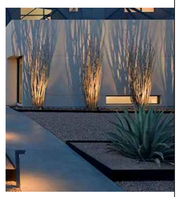
5-ZN-2022
9/20/2022

Plot Date: 4/18/2022 2:42:32 PM Author

Exhibit H:

Landscape Plan





PLANT LEGEND

SYM.	BOTANICAL NAME (COMMON NAME)	SIZE
⊕	NEW OR SALVAGE TREE SPECIES TO BE DETERMINED	PER CODE

TOPDRESS / DUST CONTROL LEGEND

SCREENED DECOMPOSED GRANITE. 2" MIN. DEPTH. SIZE: TBD. COLOR: TBD. ALL PLANTING AREAS UNLESS OTHERWISE NOTED.

NOTES:

- LANDSCAPE DESIGN TO CONSIST OF NATIVE AND REGIONALLY ADAPTED TREE/SHRUB/CACTI SPECIES THAT ARE LOW WATER USE BY NATURE. NO TURF/LAWN AREAS PROPOSED FOR THE PROJECT LANDSCAPE DESIGN.
- LANDSCAPE AREAS CAPTURE AND FILTER WATER WHERE POSSIBLE.
- FINAL TREE/PLANT QUANTITY AND TREE/PLANT SPECIES TO BE DETERMINED. TREE/PLANT SPECIES TO MEET CODE REQUIREMENTS.
- SALVAGE PLANT MATERIALS TO BE USED TO BE DETERMINED BASED ON APPROVED NATIVE INVENTORY AND SALVAGE PLANS AND AVAILABLE PLANTS REMAINING - COORDINATION OF THIS IS PENDING.
- ALL TREES AND PLANTS TO BE FED BY AUTOMATIC UNDERGROUND IRRIGATION SYSTEM DELIVERING WATER DIRECTLY TO EACH TREE AND SHRUB IN TIMED INTERVALS THROUGH DRIP EMITTERS.
- TREES, SHRUBS AND CACTI TO BE VALVED SEPARATELY TO CONTROL AMOUNT AND DURATION OF WATERING TO MEET INDIVIDUAL SPECIES NEEDS AND AVOID OVER-WATERING.
- IRRIGATION SYSTEM TO UTILIZE MASTER VALVE THAT WILL AUTOMATICALLY SHUT DOWN SYSTEM IN EVENT OF DETECTED LEAK WITHIN OVERALL SYSTEM AND RAIN SENSORS TO MONITOR LOCAL WEATHER CONDITIONS AND ADJUST WATER SCHEDULE ACCORDINGLY.
- ALL PLANTING AREAS THROUGHOUT PROJECT TO BE TOP-DRESSED WITH 2" DEPTH GRANITE MULCH TO RETAIN MOISTURE AT TREE AND SHRUB LOCATIONS.
- HARDSCAPE/PAVING AREAS ON SITE TO DIRECT STORMWATER RUNOFF INTO LANDSCAPE PLANTING AREAS THAT COLLECT AND CONVEY STORMWATER RUNOFF TO LARGER RETENTION AREAS. THESE MICRO BASINS WILL DELIVER WATER TO PLANTS PRIOR TO ENTRY INTO STORMWATER STRUCTURES THEREBY REDUCING NET IRRIGATION DEMAND AND LOWERING STORMWATER VOLUME ENTERING DRAINAGE SYSTEM.

811 Know what's below. Call before you dig.

CALL PRIVATE UTILITY LOCATOR TO LOCATE PRIVATE UTILITIES

NORTH

SCALE: 80 160 1:80

Banner Project C Medical Center

SCOTTSDALE CAMPUS HOSPITAL

Hayden Rd & Loop 101 Frontage Rd
Scottsdale, Arizona 85255

SMITHGROUP

455 NORTH THIRD STREET
SUITE 250
PHOENIX, AZ 85004
602.265.2200
WWW.SMITHGROUP.COM
LANDSCAPE ARCHITECT
RICK JONES
RICK.JONES@SMITHGROUP.COM

ISSUED FOR	REV	DATE
ENTITLEMENT REVIEW		15APR22

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE

LANDSCAPE PLAN

PROJECT NUMBER 13178.000

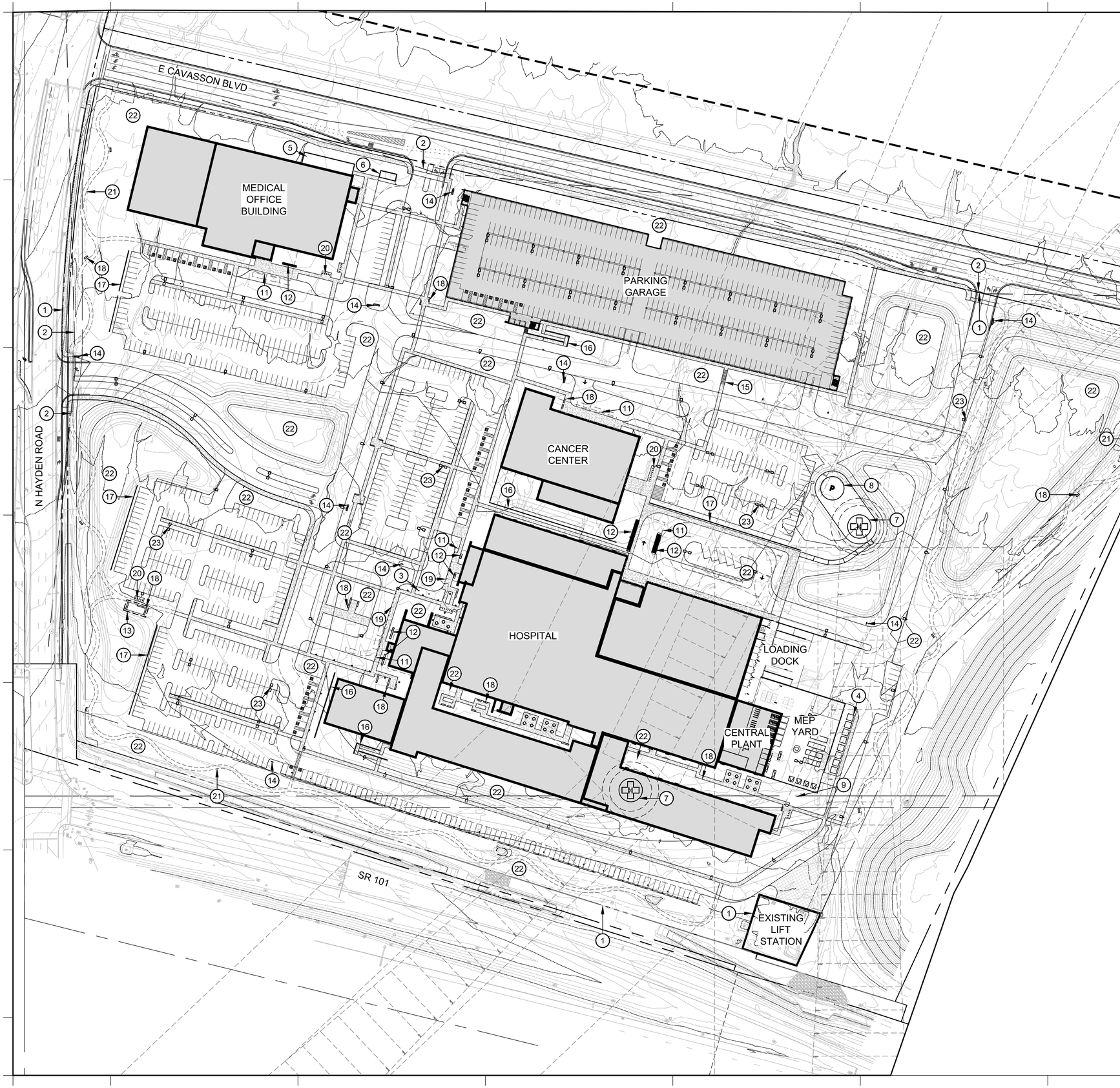
ENT LP100

SHEET NUMBER

5-ZN-2022
9/20/2022

Exhibit I:

Hardscape Plan



KEYNOTES

1. PROPERTY LINE
2. SIGHT VISIBILITY LINE
3. FLAGPOLES
4. TRANSFORMER - SEE ELECTRICAL
5. MECHANICAL YARD
6. TRASH ENCLOSURE
7. HELIPAD
8. HELIPAD PARKING
9. FIRE HYDRANT - MAINTAIN 5' CLEAR PLANTING
10. WATER METER / BACKFLOW PREVENTER
11. BUILDING CANOPY - SEE ARCHITECTURE
12. BUILDING WALL - SEE ARCHITECTURE
13. SHADE STRUCTURE
14. SIGNAGE - SEE ARCHITECTURE
15. STAIRS
16. RETAINING WALL
17. SCREEN WALL
18. BENCH - TYP.
19. BOLLARD - TYP.
20. BIKE RACK - TYP.
21. STABILIZED DECOMPOSED GRANITE WALKING PATH - TYP.
22. LANDSCAPE AREA - SEE LANDSCAPE SHEET LP100
23. LIGHTING - SEE ELECTRICAL

HARDSCAPE LEGEND

CONCRETE
COLOR: TBD
FINISH: TBD

811 Know what's below. Call before you dig.

CALL PRIVATE UTILITY LOCATOR TO LOCATE PRIVATE UTILITIES

NORTH

SCALE: 1:80

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RICK JONES
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ENTITLEMENT REVIEW		15APR22

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE

HARDSCAPE PLAN

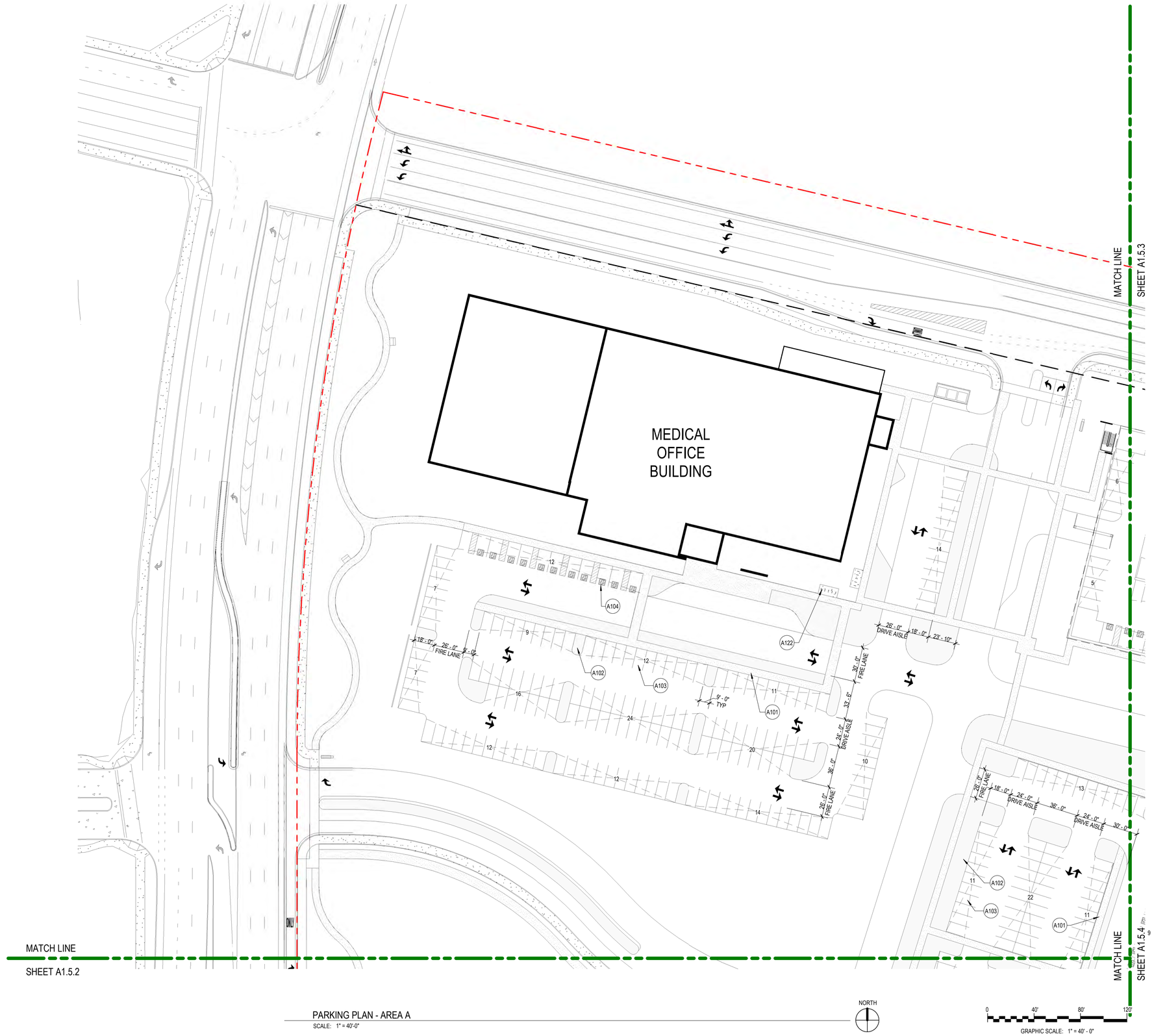
PROJECT NUMBER 13178.000

ENT LS100

SHEET NUMBER

5-ZN-2022
9/20/2022

Exhibit J: Parking Plan



PARKING PLAN - AREA A
SCALE: 1" = 40'-0"

GRAPHIC SCALE: 1" = 40' - 0"

GRAPHIC LEGEND

- PEDESTRAIN SIDEWALK
- LANDSCAPE AREA
- PROPERTY BOUNDARY

PARKING DATA

OVERALL		
	REQUIRED	PROVIDED
HOSPITAL (300 BEDS @1.5 PER BED)	450	1,142
CANCER CENTER (90,000 S.F. @1 PER 250 S.F.)	360	450
MOB / ASC (175,500 S.F. @1 PER 250 S.F.)	702	790
TOTAL	**1,512**	**2,382**

BREAKDOWN OF OVERALL		
	REQUIRED	PROVIDED
ACCESSIBLE (4% OF REQ'D PARKING)	61	70 44 (UNCOVERED) 26 (COVERED)
STANDARD (COVERED)	-	77
STANDARD (UNCOVERED)	-	673
PARKING GARAGE		
STANDARD (COVERED)	-	1,155
STANDARD (UNCOVERED)	-	407
BICYCLE (2 PER 10 REQ'D PARKING SPACES) OR (100 MAX.)	100	100 36 (UNCOVERED) 64 (COVERED)

PARKING NOTES

SHEET KEYNOTES

A101	SIDEWALK
A102	LANDSCAPE PARKING ISLAND
A103	PARKING STALL: 9'-0" X 18'-0", TYP.
A104	ADA PARKING STALL: 11'-0" X 18'-0" WITH 5'-0" ACCESS AISLE
A122	BICYCLE PARKING

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SEALS AND SIGNATURES

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SHEET TITLE

PARKING PLAN - AREA A

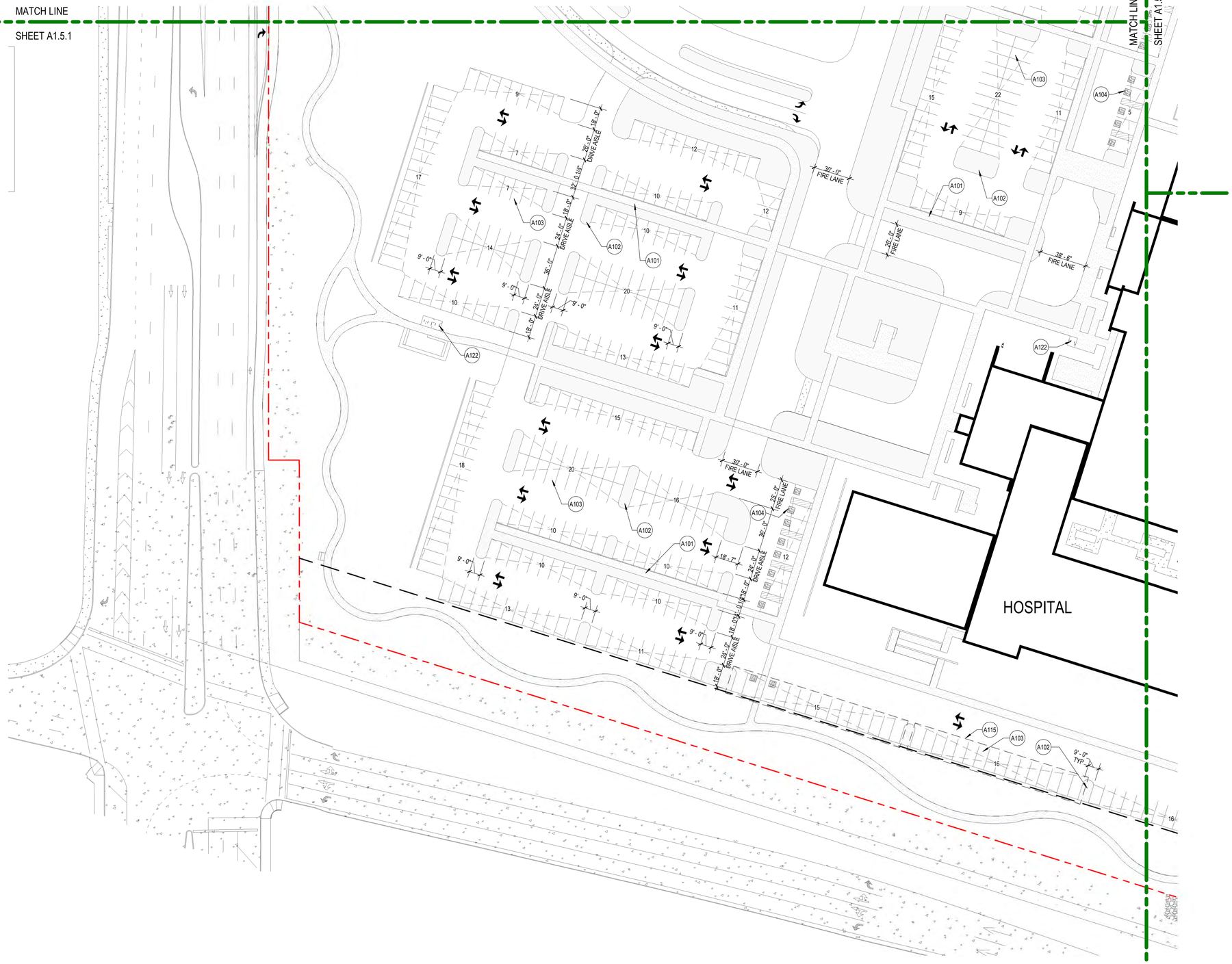
PROJECT NUMBER

ENT_A1.5.1

SHEET NUMBER

5-ZN-2022
9/20/2022

Plot Date: 4/18/2022 2:42:36 PM Author



PARKING PLAN - AREA B
SCALE: 1" = 40'-0"

NORTH

0 40' 80' 120'
GRAPHIC SCALE: 1" = 40' - 0"

GRAPHIC LEGEND

- PEDESTRAIN SIDEWALK
- LANDSCAPE AREA
- PROPERTY BOUNDARY

PARKING DATA

OVERALL	REQUIRED	PROVIDED
HOSPITAL (300 BEDS @1.5 PER BED)	450	1,142
CANCER CENTER (90,000 S.F. @1 PER 250 S.F.)	360	450
MOB / ASC (175,500 S.F. @1 PER 250 S.F.)	702	790
TOTAL	**1,512**	**2,382**

BREAKDOWN OF OVERALL	REQUIRED	PROVIDED
ACCESSIBLE (4% OF REQ'D PARKING)	61	70 44 (UNCOVERED) 26 (COVERED)
STANDARD (COVERED)	-	77
STANDARD (UNCOVERED)	-	673
PARKING GARAGE		
STANDARD (COVERED)	-	1,155
STANDARD (UNCOVERED)	-	407
BICYCLE (2 PER 10 REQ'D PARKING SPACES) OR (100 MAX.)	100	100 36 (UNCOVERED) 64 (COVERED)

PARKING NOTES

SHEET KEYNOTES

A101	SIDEWALK
A102	LANDSCAPE PARKING ISLAND
A103	PARKING STALL: 9'-0" X 18'-0", TYP.
A104	ADA PARKING STALL: 11'-0" X 18'-0" WITH 5'-0" ACCESS AISLE
A115	PARKING CANOPY STRUCTURE (PV READY)
A122	BICYCLE PARKING

Banner Project C Medical Center

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ENTITLEMENT REVIEW		*15APR22*

SEALS AND SIGNATURES

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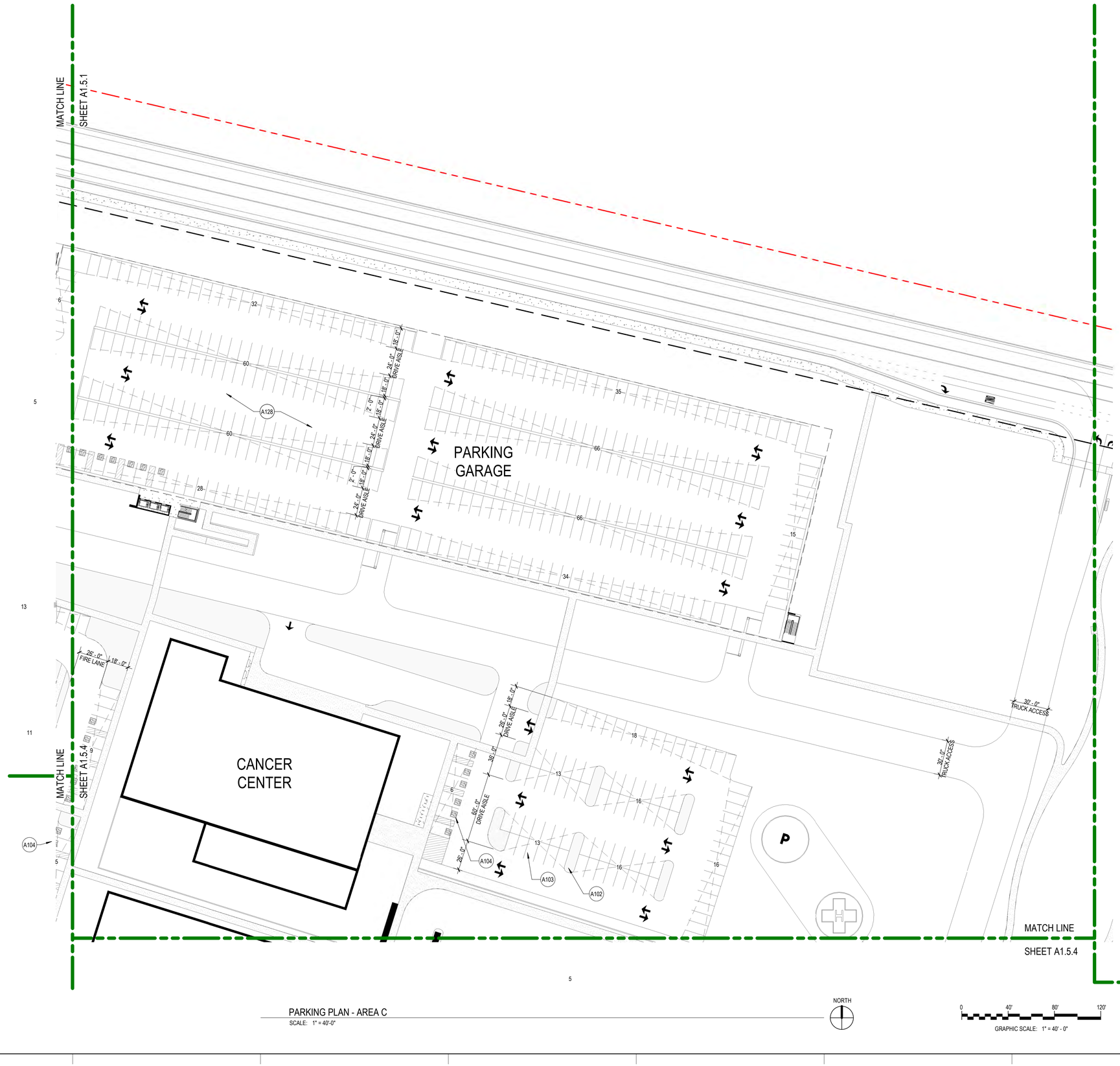
SHEET TITLE
PARKING PLAN - AREA B

PROJECT NUMBER
ENT_A1.5.2
SHEET NUMBER

5-ZN-2022
9/20/2022

Plot Date: 4/18/2022 2:42:41 PM Author



PARKING PLAN - AREA C
SCALE: 1" = 40'-0"

NORTH

0 40' 80' 120'
GRAPHIC SCALE: 1" = 40' - 0"

GRAPHIC LEGEND

- PEDESTRAIN SIDEWALK
- LANDSCAPE AREA
- PROPERTY BOUNDARY

PARKING DATA

OVERALL		
	REQUIRED	**PROVIDED**
HOSPITAL (300 BEDS @1.5 PER BED)	450	1,142
CANCER CENTER (90,000 S.F. @1 PER 250 S.F.)	360	450
MOB / ASC (175,500 S.F. @1 PER 250 S.F.)	702	790
TOTAL	**1,512**	**2,382**

BREAKDOWN OF OVERALL		
	REQUIRED	**PROVIDED**
ACCESSIBLE (4% OF REQ'D PARKING)	61	70 44 (UNCOVERED) 26 (COVERED)
STANDARD (COVERED)	-	77
STANDARD (UNCOVERED)	-	673
PARKING GARAGE		
STANDARD (COVERED)	-	1,155
STANDARD (UNCOVERED)	-	407
BICYCLE (2 PER 10 REQ'D PARKING SPACES) OR (100 MAX.)	100	100 36 (UNCOVERED) 64 (COVERED)

PARKING NOTES

SHEET KEYNOTES

A102 LANDSCAPE PARKING ISLAND
A103 PARKING STALL: 9'-0" X 18'-0", TYP.
A104 ADA PARKING STALL: 11'-0" X 18'-0" WITH 5'-0" ACCESS AISLE
A128 PARKING BUILDING STRUCTURE

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SEALS AND SIGNATURES

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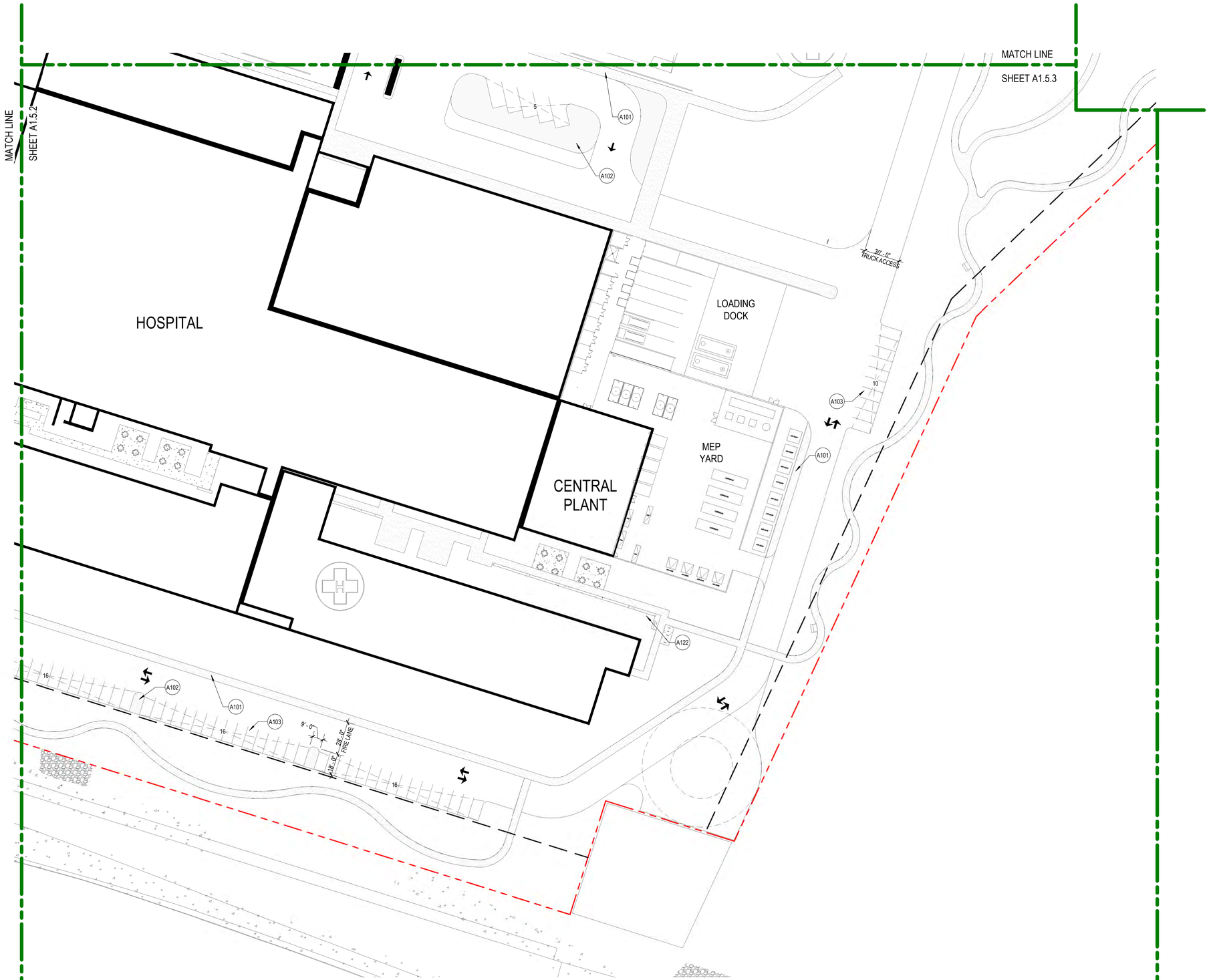
SHEET TITLE
PARKING PLAN - AREA C

PROJECT NUMBER
ENT_A1.5.3
SHEET NUMBER

5-ZN-2022
9/20/2022

Plot Date: 4/18/2022 2:42:44 PM Author



PARKING PLAN - AREA D
SCALE: 1" = 40'-0"

NORTH

0 40' 80' 120'
GRAPHIC SCALE: 1" = 40' - 0"

GRAPHIC LEGEND

- PEDESTRAIN SIDEWALK
- LANDSCAPE AREA
- PROPERTY BOUNDARY

PARKING DATA

OVERALL		
	REQUIRED	PROVIDED
HOSPITAL (300 BEDS @1.5 PER BED)	450	1,142
CANCER CENTER (90,000 S.F. @1 PER 250 S.F.)	360	450
MOB / ASC (175,500 S.F. @1 PER 250 S.F.)	702	790
TOTAL	**1,512**	**2,382**

BREAKDOWN OF OVERALL		
	REQUIRED	PROVIDED
ACCESSIBLE (4% OF REQ'D PARKING)	61	70 44 (UNCOVERED) 26 (COVERED)
STANDARD (COVERED)	-	77
STANDARD (UNCOVERED)	-	673
PARKING GARAGE		
STANDARD (COVERED)	-	1,155
STANDARD (UNCOVERED)	-	407
BICYCLE (2 PER 10 REQ'D PARKING SPACES) OR (100 MAX.)	100	100 36 (UNCOVERED) 64 (COVERED)

PARKING NOTES

SHEET KEYNOTES

A101	SIDEWALK
A102	LANDSCAPE PARKING ISLAND
A103	PARKING STALL: 9'-0" X 18'-0", TYP.
A122	BICYCLE PARKING

Banner Project C
Medical Center

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SEALS AND SIGNATURES

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SHEET TITLE
PARKING PLAN - AREA D

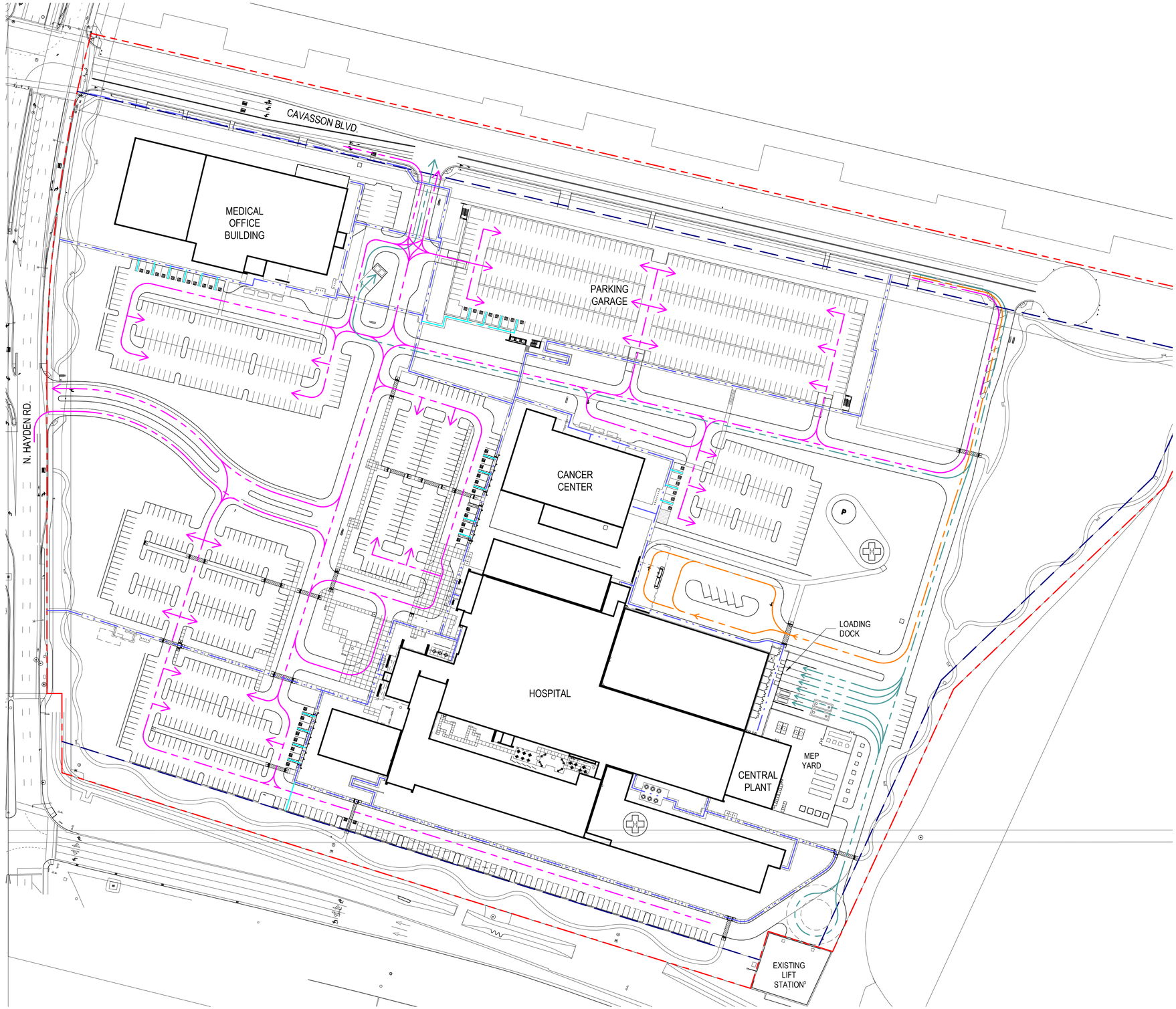
PROJECT NUMBER
ENT_A1.5.4
SHEET NUMBER

5-ZN-2022
9/20/2022

Plot Date: 4/18/2022 2:42:49 PM Author

Exhibit K:

Pedestrian and Vehicular Circulation Plan



OPEN SPACE PLAN
SCALE: 1" = 80'-0"

NORTH

0 80' 160' 240'
GRAPHIC SCALE: 1" = 80' - 0"

GRAPHIC LEGEND

- PROPERTY BOUNDARY
- PEDESTRIAN CIRCULATION
- SERVICE VEHICLE CIRCULATION
- EMPLOYEE/VISITOR VEHICLE CIRCULATION
- EMERGENCY VEHICLE CIRCULATION
- ACCESSIBLE CIRCULATION

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CITY COMMENTS		*31AUG22*
ENTITLEMENT REVIEW		*15APR22*

SEALS AND SIGNATURES

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SHEET TITLE

PEDESTRIAN AND VEHICULAR CIRCULATION PLAN

PROJECT NUMBER

ENT_A1.6.1

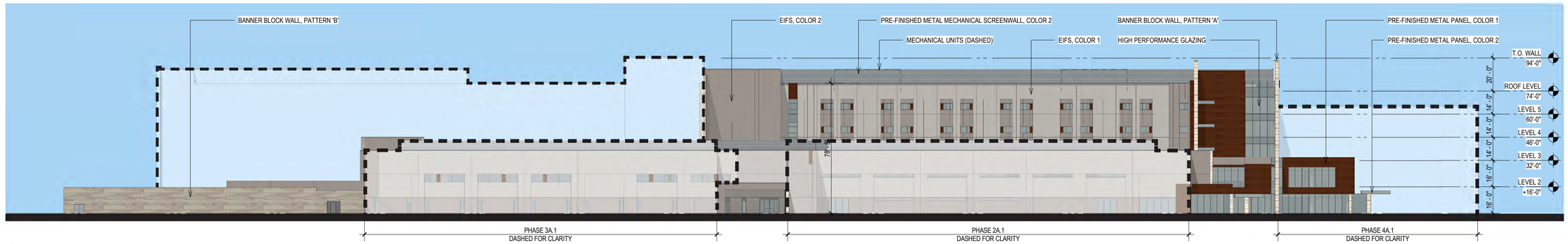
SHEET NUMBER

5-ZN-2022
9/20/2022

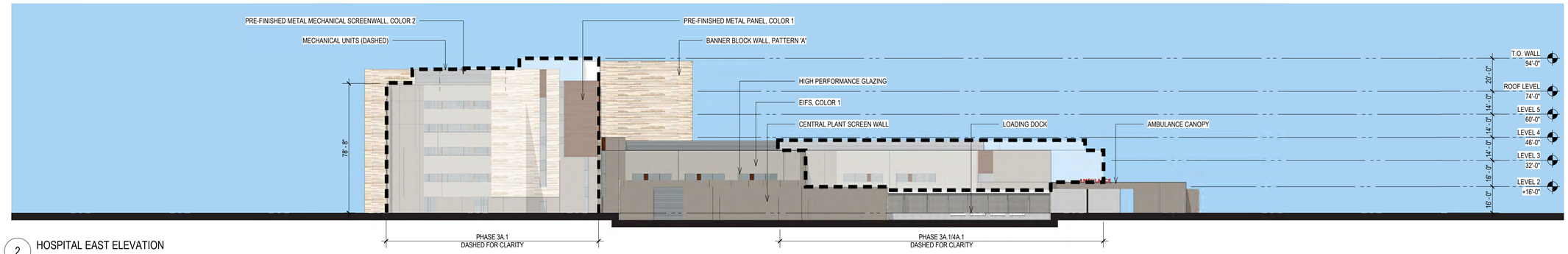
Author
8/31/2022 7:43:29 AM
Plot Date:

Exhibit L:

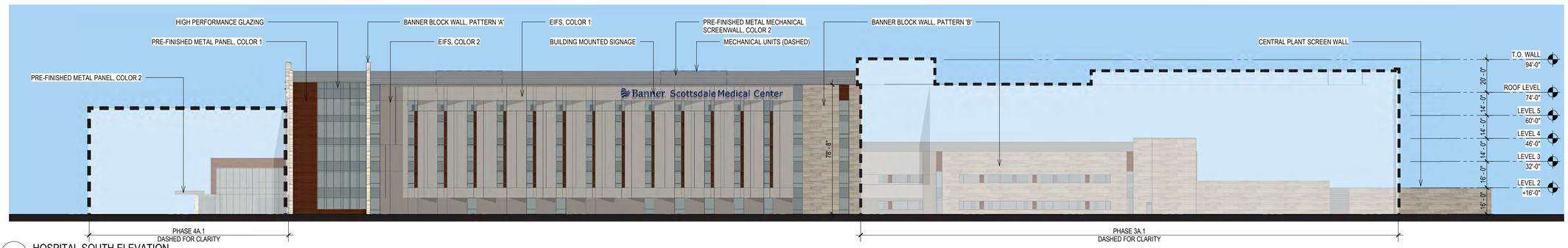
Conceptual Elevations



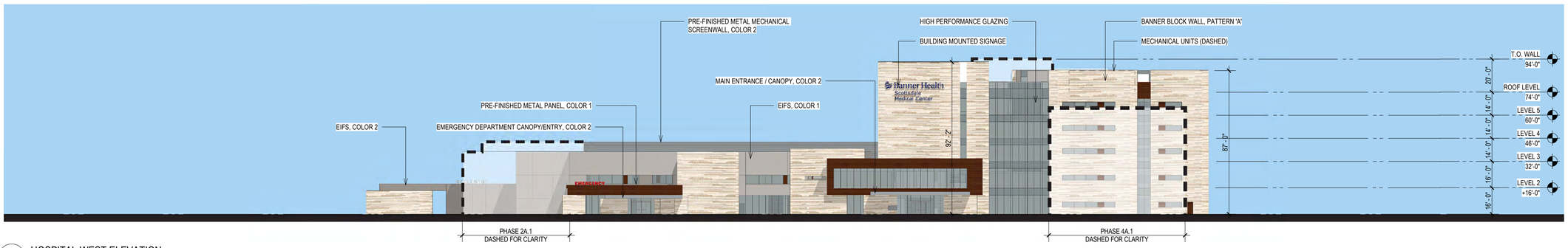
1 HOSPITAL NORTH ELEVATION
SCALE: 1/32" = 1'-0"



2 HOSPITAL EAST ELEVATION
SCALE: 1/32" = 1'-0"



3 HOSPITAL SOUTH ELEVATION
SCALE: 1/32" = 1'-0"



4 HOSPITAL WEST ELEVATION
SCALE: 1/32" = 1'-0"

Author
4/18/2022 2:42:59 PM
Plot Date:

Banner Project C
Medical Center

SCOTTSDALE CAMPUS HOSPITAL
Hayden Rd & Loop 101 Frontage Rd
Scottsdale, Arizona 85255

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SEALS AND SIGNATURES

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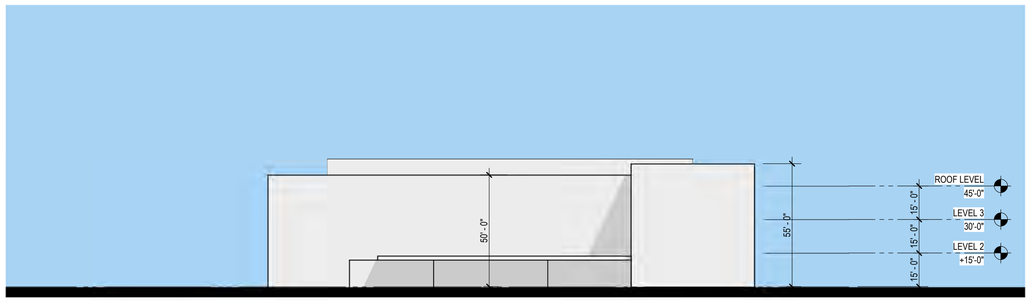
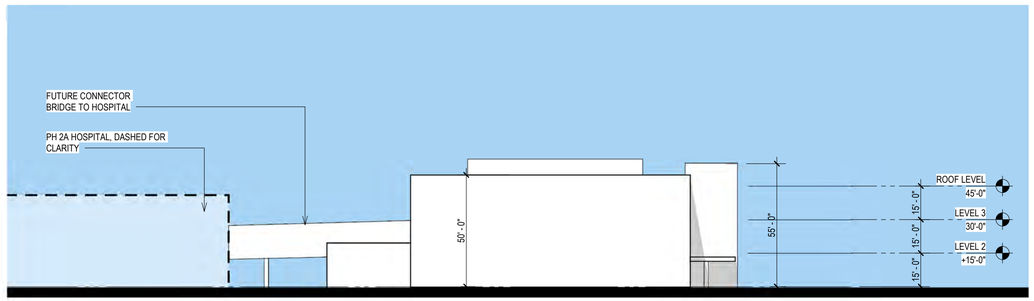
SHEET TITLE
EXTERIOR ELEVATIONS

PROJECT NUMBER
ENT_A4.1.1
SHEET NUMBER

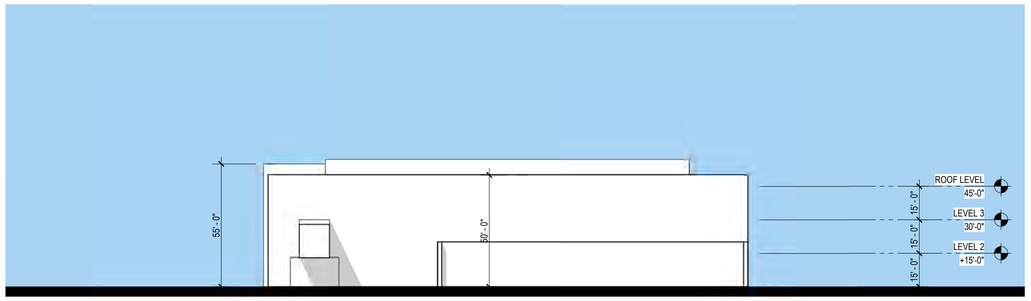
5-ZN-2022
9/20/2022



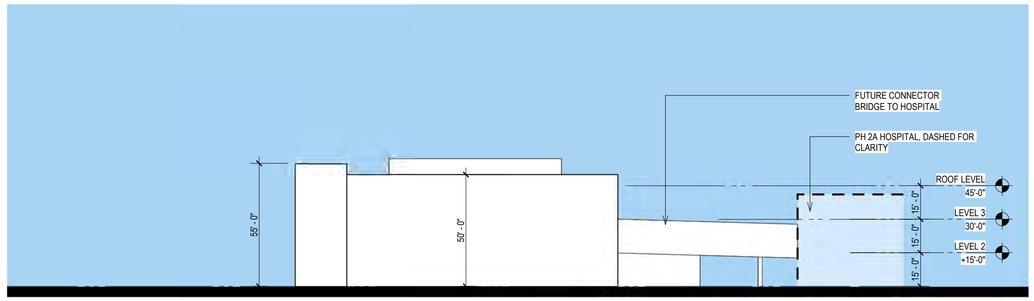
1 CANCER CENTER NORTH ELEVATION
SCALE: 1/32" = 1'-0"



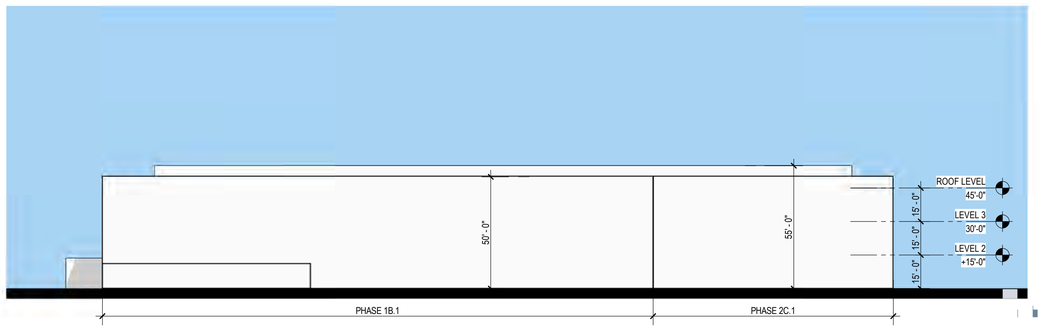
2 CANCER CENTER EAST ELEVATION
SCALE: 1/32" = 1'-0"



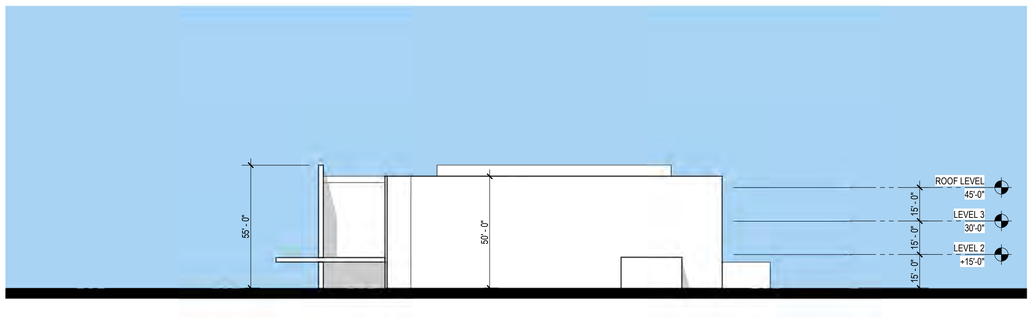
3 CANCER CENTER SOUTH ELEVATION
SCALE: 1/32" = 1'-0"



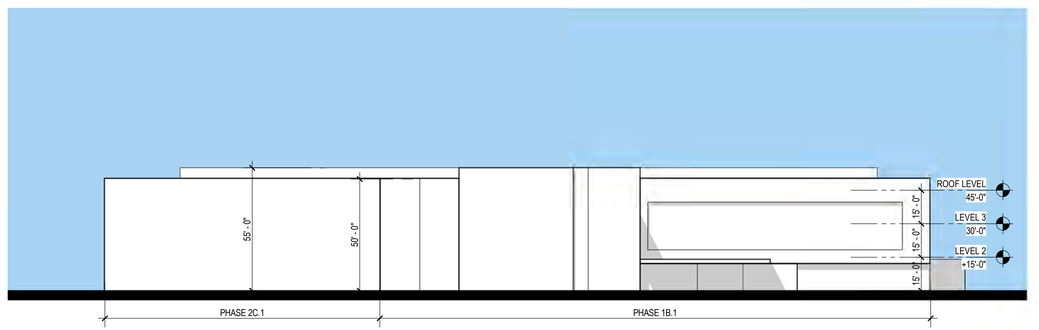
4 CANCER CENTER WEST ELEVATION
SCALE: 1/32" = 1'-0"



5 MEDICAL BUILDING NORTH ELEVATION
SCALE: 1/32" = 1'-0"



6 MEDICAL BUILDING EAST ELEVATION
SCALE: 1/32" = 1'-0"



7 MEDICAL BUILDING SOUTH ELEVATION
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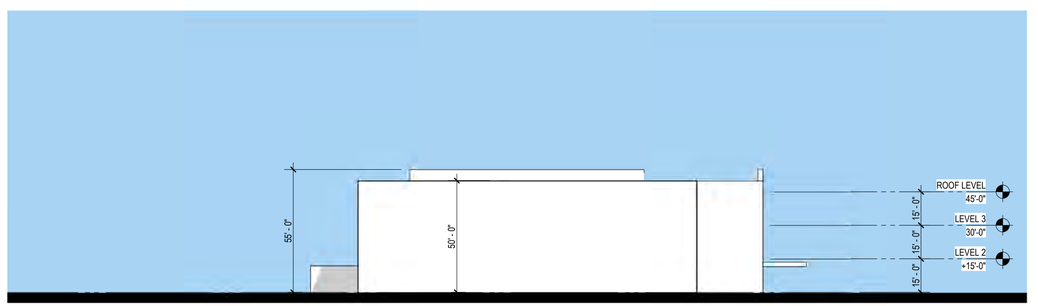

8 MEDICAL BUILDING WEST ELEVATION
SCALE: 1/32" = 1'-0"

Author
4/18/2022 2:43:03 PM
Plot Date:

Banner Project C Medical Center

SCOTTSDALE CAMPUS HOSPITAL
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602.265.2200
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ENTITLEMENT REVIEW		*15APR22*

SEALS AND SIGNATURES

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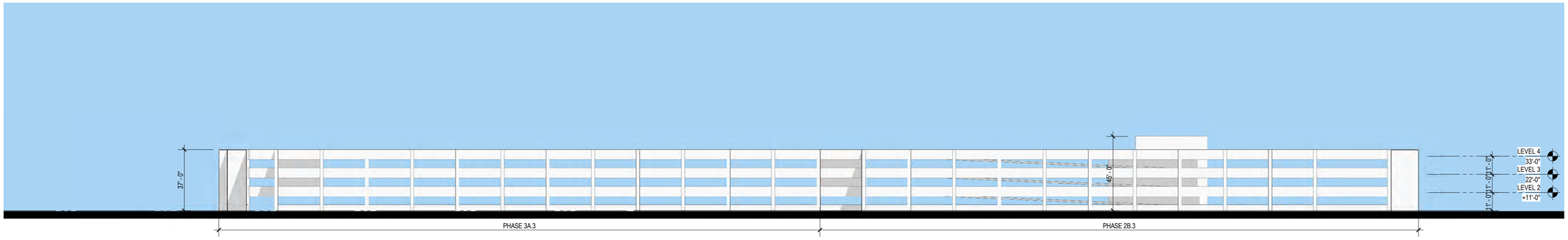
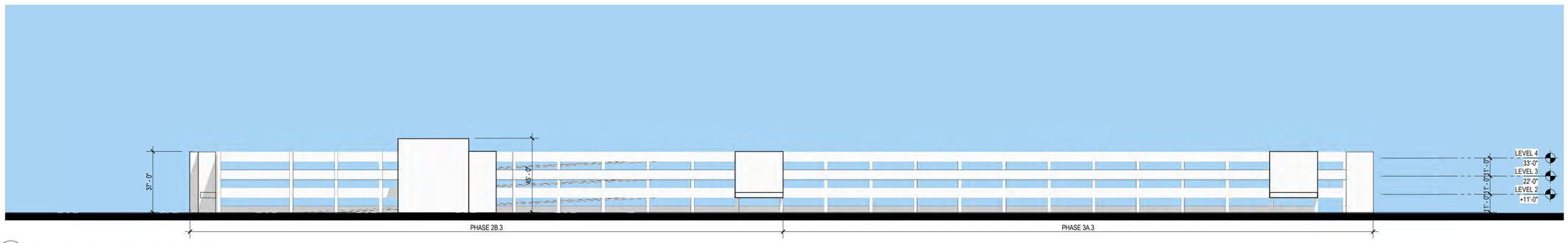
SHEET TITLE
EXTERIOR ELEVATIONS

PROJECT NUMBER
ENT_A4.1.2
SHEET NUMBER

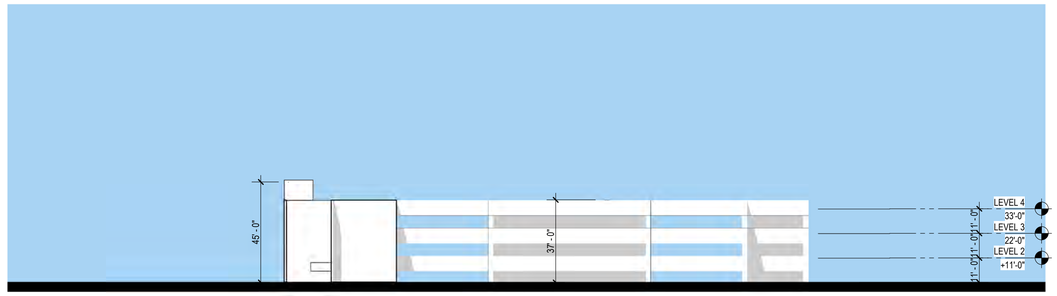
5-ZN-2022
9/20/2022



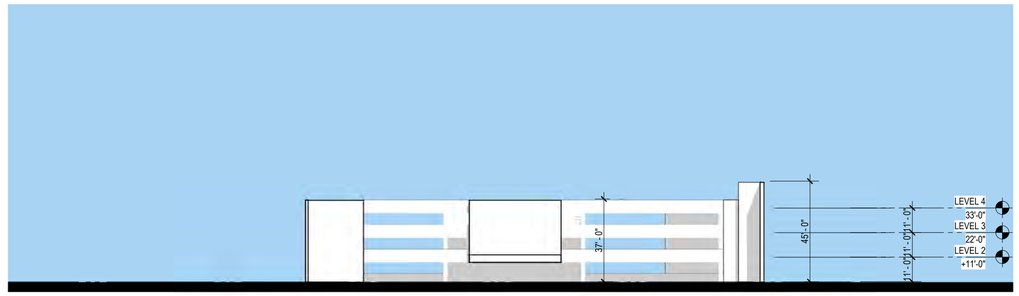
1 PARKING STRUCTURE NORTH ELEVATION
SCALE: 1/32" = 1'-0"



2 PARKING STRUCTURE SOUTH ELEVATION
SCALE: 1/32" = 1'-0"



3 PARKING STRUCTURE EAST ELEVATION
SCALE: 1/32" = 1'-0"



4 PARKING STRUCTURE WEST ELEVATION
SCALE: 1/32" = 1'-0"

Plot Date: 4/18/2022 2:43:05 PM Author

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ISSUED FOR	REV	DATE
ENTITLEMENT REVIEW		*15APR22*

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

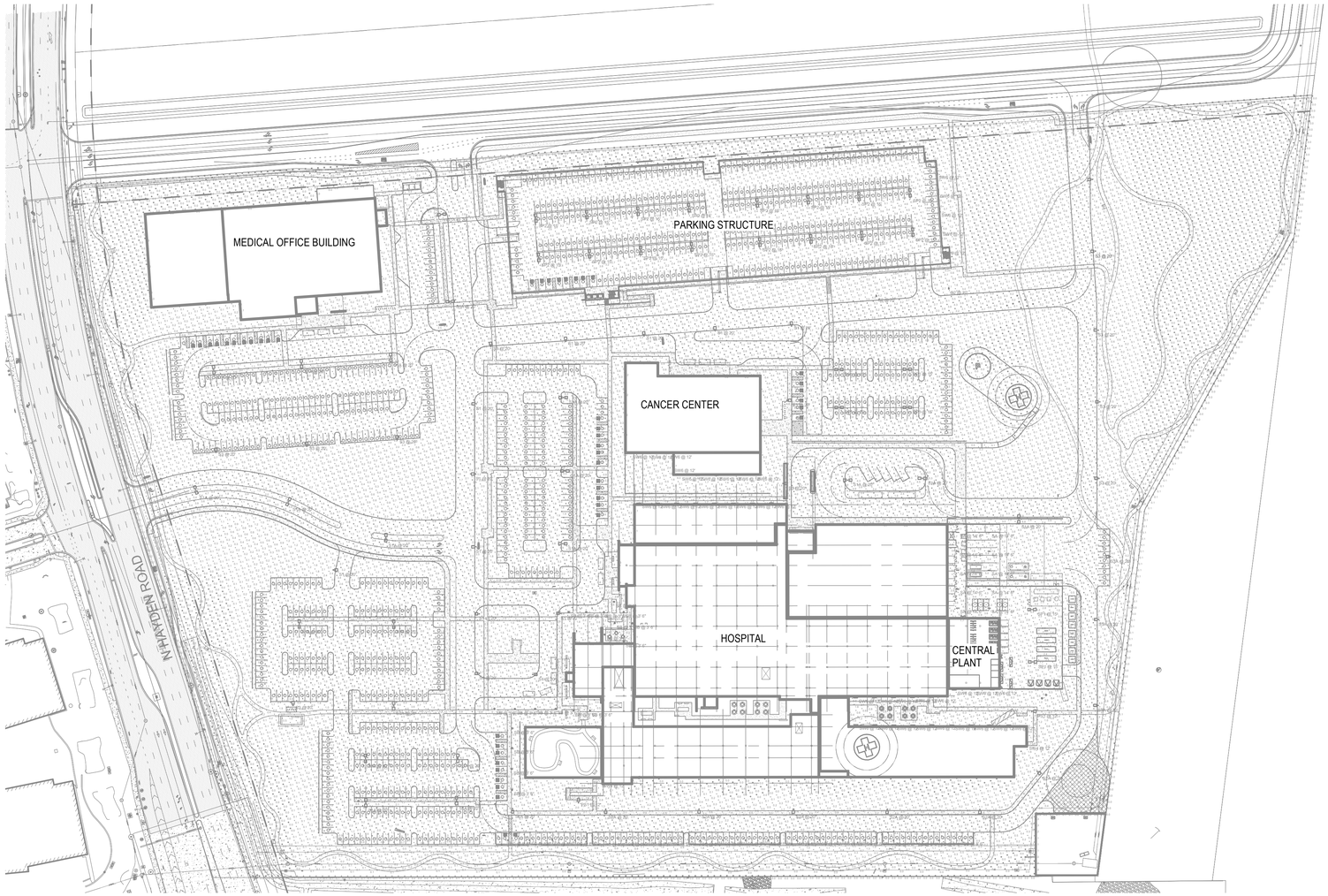
SHEET TITLE
EXTERIOR ELEVATIONS

PROJECT NUMBER
ENT_A4.1.3
SHEET NUMBER

5-ZN-2022
9/20/2022

Exhibit M:

Exterior Site Photometry Plan



1 ELECTRICAL SITE INITIAL PHOTOMETRY PLAN
SCALE: 1" = 100'-0"

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
FC @ BOUNDRY 6' AFG	×	0.0 fc	0.6 fc	0.0 fc	N/A	N/A
PARKING & DRIVE AREAS	✱	2.0 fc	7.9 fc	0.1 fc	79.0:1	20.0:1
PARKING GARAGE TOP DECK	+	2.6 fc	7.8 fc	0.1 fc	78.0:1	26.0:1
SITE	+	1.2 fc	8.0 fc	0.0 fc	N/A	N/A

Schedule

Symbol	Label	QTY	Manufacturer	Catalog	Description	Lamp	Number Lamps	Lamp Output	LLF	Input Power
	PS1	2	LITHONIA	DSX0 LED P1 30K TSW MVOLT SPA / SSS 12'	DSX0 LED AREA LIGHT WITH P1 PERFORMANCE PACKAGE AND TYPE 5 WIDE OPTIC, MOUNTED @ 12' AFG	LED	1	4510	1	38
	PS2	0	LITHONIA	DSX0 LED P1 30K T2M MVOLT	DSX0 LED AREA LIGHT WITH P1 PERFORMANCE PACKAGE AND TYPE 2 MEDIUM OPTIC, MOUNTED @ 12' AFG	LED	1	4364	1	38
	S1	13	LITHONIA	DSX1 LED P6 30K TSW VOLTAGE SPA FINISH / SSS 17.5' W/ 2.5' BASE	LITHONIA DSX1 LED AREA LUMINAIRE WITH P6 PERFORMANCE PACKAGE & TYPE 5 WIDE OPTIC, MOUNTED @ 20' AFG	3000K LED	1	18227	1	163
	S1A	21	LITHONIA	TWIN-HEAD-DSX1 LED P6 30K TSW VOLTAGE SPA FINISH / SSS 17.5' W/ 2.5' BASE	TWIN HEAD LITHONIA DSX1 LED AREA LUMINAIRE WITH P6 PERFORMANCE PACKAGE & TYPE 5 WIDE OPTIC, MOUNTED @ 20' AFG	3000K LED	1	18227	1	326
	S2	2	LITHONIA	DSX1 LED P6 30K T2M VOLTAGE SPA FINISH / SSS 17.5' W/ 2.5' BASE	LITHONIA DSX1 LED AREA LUMINAIRE WITH P6 PERFORMANCE PACKAGE & TYPE 2 MEDIUM OPTIC, MOUNTED @ 20' AFG	3000K LED	1	17634	1	163
	S2A	7	LITHONIA	DSX1 LED P6 30K T2M VOLTAGE SPA HS FINISH / SSS 17.5' W/ 2.5' BASE	LITHONIA DSX1 LED AREA LUMINAIRE WITH P6 PERFORMANCE PACKAGE & TYPE 2 MEDIUM OPTIC W/ HOUSE SIDE SHIELD, MOUNTED @ 20' AFG	3000K LED	1	14450	1	163
	S3	11	LITHONIA	DSX1 LED P6 30K T4M VOLTAGE SPA FINISH / SSS 17.5' W/ 2.5' BASE	LITHONIA DSX1 LED AREA LUMINAIRE WITH P6 PERFORMANCE PACKAGE & TYPE 4 MEDIUM OPTIC, MOUNTED @ 20' AFG	3000K LED	1	17298	1	163
	S3A	3	LITHONIA	DSX1 LED P6 30K T4M VOLTAGE SPA HS FINISH / SSS 17.5' W/ 2.5' BASE	LITHONIA DSX1 LED AREA LUMINAIRE WITH P6 PERFORMANCE PACKAGE & TYPE 4 MEDIUM OPTIC W/ HOUSE SIDE SHIELD, MOUNTED @ 20' AFG	3000K LED	1	13425	1	163
	SA	10	LITHONIA	FEX L48 6000LM FGFL WD MVOLT GZ10 30K 80CRI SPD10KV RMBK FINISH	FEX linear LED low bay, 48", 6000LM, flat frosted glass lens, wide distribution, 3000K, 80CRI with super durableblack finish		1	4582	1	39.51
	SB	19	LITHONIA	DSXB LED 16C 350 30K SYM MVOLT FINISH	D-SERIES BOLLARD WITH 16 3000K LEDS OPERATED AT 350mA AND SYMMETRIC DISTRIBUTION	3000K LED	1	1558	1	20
	SC	20	LITHONIA	VCPG LED P1 30K 80CRI LANE VOLTAGE SRM SPD10KV FINISH	VCPG LED EDGE-LIT CANOPY LUMINAIRE WITH P1 - PERFORMANCE PACKAGE & DRIVE LANE ASYMETRIC FORWARD THROW OPTIC, MOUNTED @ 8.5' AFG	3000K LED	1	3507	1	26.57
	SP1	6	LITHONIA	TWIN HEAD DSX0 LED P3 30K TSW VOLTAGE SPA FINISH / SSS 12.5' W/ 2.5' BASE	TWIN HEAD LITHONIA DSX0 LED AREA LUMINAIRE WITH P3 PERFORMANCE PACKAGE & TYPE 5 WIDE OPTIC, MOUNTED @ 15' AFG	3000K LED	1	8087	1	142
	SP2	16	LITHONIA	TWIN HEAD DSX0 LED P5 30K TSW VOLTAGE SPA FINISH / SSS 12.5' W/ 2.5' BASE	TWIN HEAD LITHONIA DSX0 LED AREA LUMINAIRE WITH P5 PERFORMANCE PACKAGE & TYPE 5 WIDE OPTIC, MOUNTED @ 15' AFG	3000K LED	1	11183	1	178
	SW4	2	PINNACLE ARCHITECTURAL LIGHTING	EX3-WET-N-830-4-IND-WA-U-FSD-X-FINISH	3-11/16 " WIDE X 4' LONG WET LOCATION WALL MOUNTED LINEAR SLOT LIGHT, MOUNTED @ 12' AFG	3000K LED	144	12	1	18.8
	SW6	39	PINNACLE ARCHITECTURAL LIGHTING	EX3-WET-N-830-6-IND-WA-U-FSD-X-FINISH	3-11/16 " WIDE X 6' LONG WET LOCATION WALL MOUNTED LINEAR SLOT LIGHT, MOUNTED @ 12' AFG	3000K LED	144	9	1	28.2

GENERAL SHEET NOTES

A. COORDINATE WITH LOCAL UTILITY FOR ALL SITE SERVICE REQUIREMENTS.
B. CONTACT LOCAL UTILITY TO IDENTIFY ALL EXISTING UNDERGROUND UTILITIES.

SHEET KEYNOTES

Banner Project C
Medical Center

SCOTTSDALE CAMPUS HOSPITAL
Hayden Rd & Loop 101 Frontage Rd
Scottsdale, Arizona 85255

SMITHGROUP
455 NORTH THIRD STREET
SUITE 250
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Phone

Consultant One
DISCIPLINE ONE
Address
City, State, Zip
Phone

ISSUED FOR	REV	DATE
ENTITLEMENT REVIEW		15APR22

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

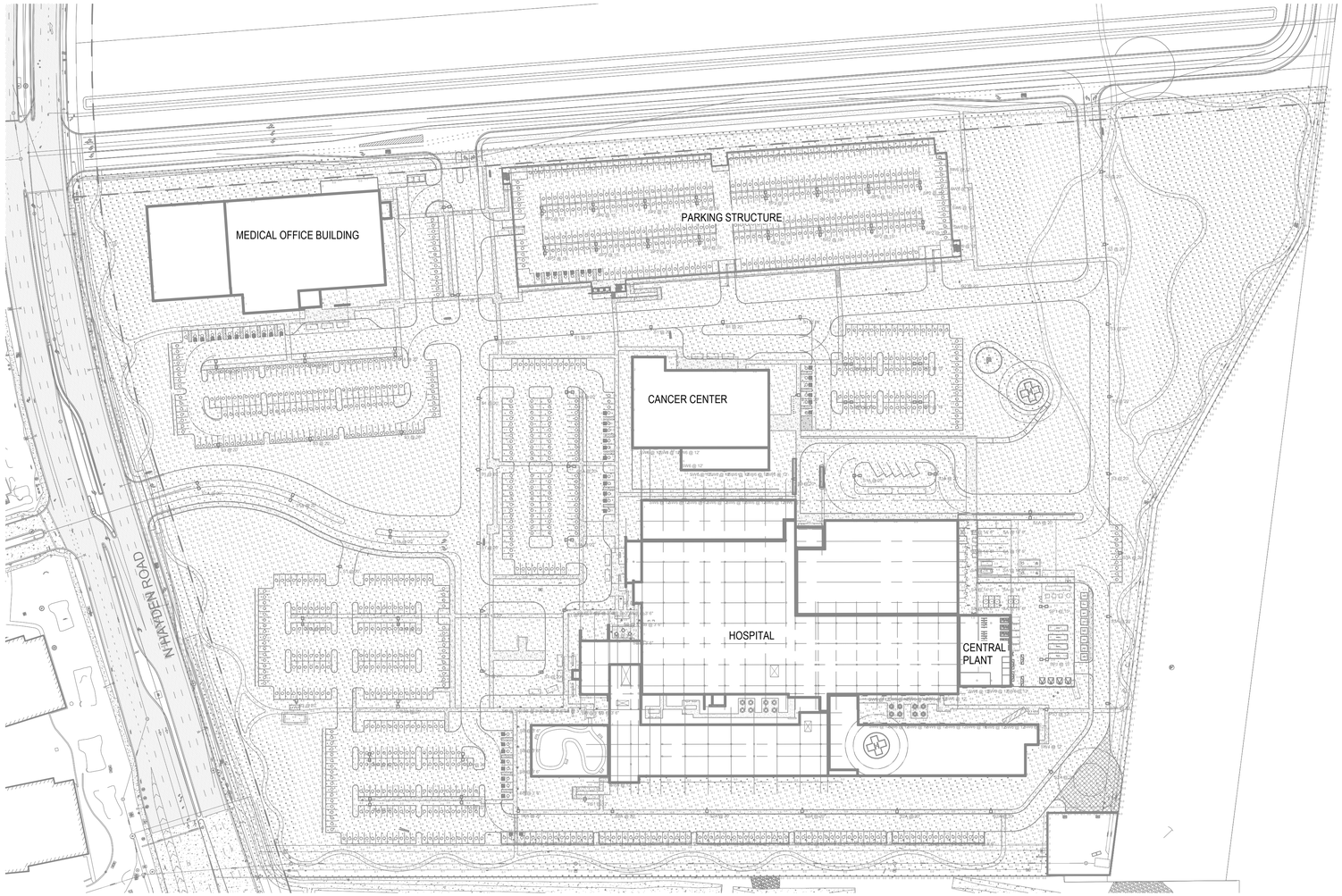
SHEET TITLE
ELECTRICAL SITE PHOTOMETRY PLAN

PROJECT NUMBER 13178

SHEET NUMBER **ENT_E1**

5-ZN-2022
9/20/2022

Author
4/18/2022 9:48:00 AM
Plot Date:



1 ELECTRICAL SITE MAINTAINED PHOTOMETRY PLAN
SCALE: 1" = 100'-0"

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
FC @ BOUNDRY 6' AFG	×	0.0 fc	0.5 fc	0.0 fc	N/A	N/A
PARKING & DRIVE AREAS	✱	1.8 fc	7.2 fc	0.1 fc	72.0:1	18.0:1
PARKING GARAGE TOP DECK	+	2.4 fc	7.1 fc	0.1 fc	71.0:1	24.0:1
SITE	+	1.1 fc	7.3 fc	0.0 fc	N/A	N/A

Schedule

Symbol	Label	QTY	Manufacturer	Catalog	Description	Lamp	Number Lamps	Lamp Output	LLF	Input Power
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	PS2	0	LITHONIA	DSX0 LED P1 30K T2M MVOLT	DSX0 LED AREA LIGHT WITH P1 PERFORMANCE PACKAGE AND TYPE 2 MEDIUM OPTIC, MOUNTED @ 12' AFG	LED	1	4364	1	38
	S1	13	LITHONIA	DSX1 LED P6 30K T5W VOLTAGE SPA FINISH / SSS 17.5' W/ 2.5' BASE	LITHONIA DSX1 LED AREA LUMINAIRE WITH P6 PERFORMANCE PACKAGE & TYPE 5 WIDE OPTIC, MOUNTED @ 20' AFG	3000K LED	1	18227	1	163
	S1A	21	LITHONIA	TWIN-HEAD-DSX1 LED P6 30K T5W VOLTAGE SPA FINISH / SSS 17.5' W/ 2.5' BASE	TWIN HEAD LITHONIA DSX1 LED AREA LUMINAIRE WITH P6 PERFORMANCE PACKAGE & TYPE 5 WIDE OPTIC, MOUNTED @ 20' AFG	3000K LED	1	18227	1	326
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	S3	11	LITHONIA	DSX1 LED P6 30K T4M VOLTAGE SPA FINISH / SSS 17.5' W/ 2.5' BASE	LITHONIA DSX1 LED AREA LUMINAIRE WITH P6 PERFORMANCE PACKAGE & TYPE 4 MEDIUM OPTIC, MOUNTED @ 20' AFG	3000K LED	1	17298	1	163
	S3A	3	LITHONIA	DSX1 LED P6 30K T4M VOLTAGE SPA HS FINISH / SSS 17.5' W/ 2.5' BASE	LITHONIA DSX1 LED AREA LUMINAIRE WITH P6 PERFORMANCE PACKAGE & TYPE 4 MEDIUM OPTIC W/ HOUSE SIDE SHIELD, MOUNTED @ 20' AFG	3000K LED	1	13425	1	163
	SA	10	LITHONIA	FEX L48 6000LM FGFL WD MVOLT GZ10 30K 80CRI SPD10KV RMBK FINISH	FEX linear LED low bay, 48", 6000LM, flat frosted glass lens, wide distribution, 3000K, 80CRI with super durableblack finish		1	4582	1	39.51
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SHEET KEYNOTES

Banner Project C Medical Center

SCOTTSDALE CAMPUS HOSPITAL
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Consultant One
DISCIPLINE ONE
Address
City, State, Zip
Phone

ISSUED FOR	REV	DATE
ENTITLEMENT REVIEW		15APR22

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE
ELECTRICAL SITE PHOTOMETRY PLAN

PROJECT NUMBER 13178

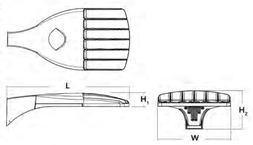
SHEET NUMBER **ENT_E2**

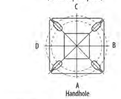
5-ZN-2022
9/20/2022

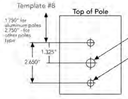
Plot Date: 4/18/2022 9:48:04 AM Author

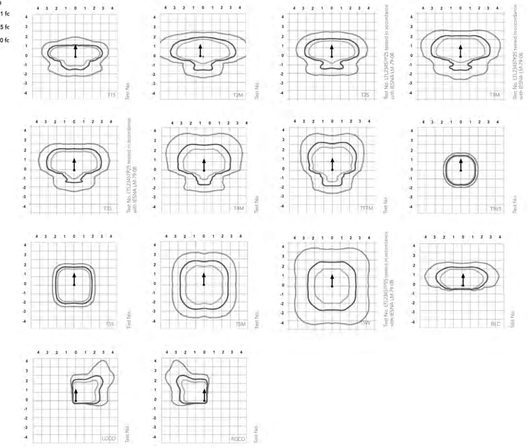
Exhibit N:

Manufacturer's Lighting Cut Sheets









D-Series Size 0
LED Area Luminaire

Buy American

Catalog Number

Notes

Type

Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 400W metal halide with typical energy savings of 70% and expected service life of over 100,000 hours.

Specifications

EPA:	0.95 ft² (.09 m²)
Length:	26" (66.0 cm)
Width:	13" (33.0 cm)
Height₁:	3" (7.62 cm)
Height₂:	7" (17.8 cm)
Weight (max):	16 lbs (7.25 kg)

Ordering Information

EXAMPLE: DSX0 LED P6 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX0 LED

Series	LEDs	Color temperature	Distribution		Voltage	Mounting
DSX0 LED	**Forward optics** P1 P5 P2 P6 P3 P7[1] P4[1] **Rotated optics** P10[2] P12[2] P11[2] P13[1,2]	30K 3000 K 40K 4000 K 50K 5000 K	T1S Type I short (Automotive) T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium TFTM Forward throw medium T5VS Type V very short[3]	T5S Type V short[3] T5M Type V medium[3] T5W Type V wide[3] BLC Backlight control[4] LCCO Left corner cutoff[4] RCCO Right corner cutoff[4]	MVOLT (120V-277V)[5,6] XVOLT (277V-480V)[7,8,9] 120[6] 208[6] 240[6] 277[6] 347[6] 480[6]	**Shipped included** SPA Square pole mounting RPA Round pole mounting[10] WBA Wall bracket[3] SPUMBA Square pole universal mounting adaptor[11] RPUMBA Round pole universal mounting adaptor[11] **Shipped separately** KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish)[12]

Control options		Other options	Finish
Shipped installed NLTAIR2 nLight AIR generation 2 enabled[13,14] PIRHN Network, high/low motion/ambient sensor[15] PER NEMA twist-lock receptacle only (control ordered separate)[16] PER5 Five-pin receptacle only (control ordered separate)[16,17] PER7 Seven-pin receptacle only (leads exit fixture) (control ordered separate)[16,17] DMG 0-10V dimming extend out back of housing for external control (control ordered separate)[18]	PIR High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc[19,20] PIRH High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc[19,20] PIR1FC3V High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc[19,20] PIRH1FC3V High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc[19,20] FAO Field adjustable output[21]	**Shipped installed** HS House-side shield[22] SF Single fuse (120, 277, 347V)[6] DF Double fuse (208, 240, 480V)[6] L90 Left rotated optics[2] R90 Right rotated optics[2] DDL Diffused drop lens[22] HA 50°C ambient operations[1] BAA Buy America(n) Act Compliant **Shipped separately** BS Bird spikes[23] EGS External glare shield	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

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Ordering Information

Accessories
Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V)[24]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V)[24]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V)[24]
DSHORT SBK U	Shorting cap[24]
DSX0HS 20C U	House-side shield for P1,P2,P3 and P4[22]
DSX0HS 30C U	House-side shield for P10,P11,P12 and P13[22]
DSX0HS 40C U	House-side shield for P5,P6 and P7[22]
DSX0DDL U	Diffused drop lens (polycarbonate)[22]
PUMBA DDBXD U*	Square and round pole universal mounting bracket adaptor (specify finish)[25]
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish)[12]
DSX0EGS (FINISH) U	External glare shield

For more control options, visit and online. Link to

NOTES
1 HA not available with P4, P7, and P13.
2 P10, P11, P12 and P13 and rotated options (L90 or R90) only available together.
3 Any Type 5 distribution with photocell, is not available with WBA.
4 Not available with HS or DDL.
5 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
6 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).
7 XVOLT only suitable for use with P4, P7 and P13.
8 XVOLT operates with any voltage between 277V and 480V.
9 XVOLT not available with fusing (SF or DF) and not available with PIR, PIRH, PIR1FC3V, PIRH1FC3V.
10 Suitable for mounting to round poles between 3.5" and 12" diameter.
11 Universal mounting brackets intended for retrofit on existing pre-drilled poles only. 1.5 G vibration load rating per ANCI C136.31. Only usable when pole's drill pattern is NOT Lithonia template #8.
12 Must order fixture with SPA mounting. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" diameter mast arm (not included).
13 Must be ordered with PIRHN.
14 Sensor cover available only in dark bronze, black, white and natural aluminum colors.
15 Must be ordered with NLTAIR2. For more information on nLight Air 2
16 Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
17 If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
18 DMG not available with PIRHN, PER5, PER7, PIR, PIRH, PIR1FC3V or PIRH1FC3V, FAO.
19 Reference Controls Options table on page 4.
20 Reference Motion Sensor Default Table on page 4 to see functionality.
21 Not available with other dimming controls options.
22 Not available with BLC, LCCO and RCCO distribution.
23 Must be ordered with fixture for factory pre-drilling.
24 Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.
25 For retrofit use only. Only usable when pole's drill pattern is NOT Lithonia template #8

EGS – External Glare Shield

Drilling

Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
Minimum Acceptable Outside Pole Dimension							
SPA	#8	2-7/8"	2-7/8"	3.5"	3.5"		3.5"
RPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
SPUMBA	#5	2-7/8"	3"	4"	4"		4"
RPUMBA	#5	2-7/8"	3.5"	5"	5"	3.5"	5"

DSX0 Area Luminaire - EPA

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
DSX0 LED	0.950	1.900	1.830	2.850	2.850	3.544

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Area Size 0 homepage.

Isofootcandle plots for the DSX0 LED 40C 1000 40K. Distances are in units of mounting height (20').

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	50°F	1.02
20°C	68°F	1.01
25°C	**77°C**	**1.00**
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Electrical Load

	Performance Package	LED Count	Drive Current	Wattage	Current (A) 120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	20	530	38	0.32	0.18	0.15	0.15	0.10	0.08
	P2	20	700	49	0.41	0.23	0.20	0.19	0.14	0.11
	P3	20	1050	71	0.60	0.37	0.32	0.27	0.21	0.15
	P4	20	1400	92	0.77	0.45	0.39	0.35	0.28	0.20
	P5	40	700	89	0.74	0.43	0.38	0.34	0.26	0.20
	P6	40	1050	134	1.13	0.65	0.55	0.48	0.39	0.29
	P7	40	1300	166	1.38	0.80	0.69	0.60	0.50	0.37
Rotated Optics (Requires L90 or R90)	P10	30	530	53	0.45	0.26	0.23	0.21	0.16	0.12
	P11	30	700	72	0.60	0.35	0.30	0.27	0.20	0.16
	P12	30	1050	104	0.88	0.50	0.44	0.39	0.31	0.23
	P13	30	1300	128	1.08	0.62	0.54	0.48	0.37	0.27

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
25,000	0.96
50,000	0.92
100,000	0.85

Motion Sensor Default Settings						
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

*for use when motion sensor is used as dusk to dawn control.

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PER5 or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire
PIR or PIRH	Motion sensors with integral photocell. PIR for 8-15' mounting; PIRH for 15-30' mounting	Luminaires dim when no occupancy is detected.	Acuity Controls SBGR	Also available with PIRH1FC3V when the sensor photocell is used for dusk-to-dawn operation.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclypse.	nLight Air rSDGR	nLight AIR sensors can be programmed and commissioned from the ground using the CLAIRity Pro app.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

Power Package	LED Count	Drive Current	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	20	530	38W	T1S	4,369	1	0	1	115	4,706	1	0	1	124	4,766	1	0	1	125
				T2S	4,364	1	0	1	115	4,701	1	0	1	124	4,761	1	0	1	125
				T2M	4,387	1	0	1	115	4,726	1	0	1	124	4,785	1	0	1	126
				T3S	4,248	1	0	1	112	4,577	1	0	1	120	4,634	1	0	1	122
				T3M	4,376	1	0	1	115	4,714	1	0	1	124	4,774	1	0	1	126
				T4M	4,281	1	0	1	113	4,612	1	0	2	121	4,670	1	0	2	123
				TFTM	4,373	1	0	1	115	4,711	1	0	2	124	4,771	1	0	2	126
				T5VS	4,548	2	0	0	120	4,900	2	0	0	129	4,962	2	0	0	131
				T5S	4,552	2	0	0	120	4,904	2	0	0	129	4,966	2	0	0	131
				T5M	4,541	3	0	1	120	4,891	3	0	1	129	4,953	3	0	1	130
				T5W	4,576	3	0	2	120	4,929	3	0	2	130	4,992	3	0	2	131
				BLC	3,586	1	0	1	94	3,863	1	0	1	102	3,912	1	0	1	103
				LCCO	2,668	1	0	1	70	2,874	1	0	2	76	2,911	1	0	2	77
				RCCO	2,668	1	0	1	70	2,874	1	0	2	76	2,911	1	0	2	77
P2	20	700	49W	T1S	5,570	1	0	1	114	6,001	1	0	1	122	6,077	2	0	2	124
				T2S	5,564	1	0	2	114	5,994	1	0	2	122	6,070	2	0	2	124
				T2M	5,593	1	0	1	114	6,025	1	0	1	123	6,102	1	0	1	125
				T3S	5,417	1	0	2	111	5,835	1	0	2	119	5,909	2	0	2	121
				T3M	5,580	1	0	2	114	6,011	1	0	2	123	6,087	1	0	2	124
				T4M	5,458	1	0	2	111	5,880	1	0	2	120	5,955	1	0	2	122
				TFTM	5,576	1	0	2	114	6,007	1	0	2	123	6,083	1	0	2	124
				T5VS	5,799	2	0	0	118	6,247	2	0	0	127	6,327	2	0	0	129
				T5S	5,804	2	0	0	118	6,252	2	0	0	128	6,332	2	0	1	129
				T5M	5,789	3	0	1	118	6,237	3	0	1	127	6,316	3	0	1	129
				T5W	5,834	3	0	2	119	6,285	3	0	2	128	6,364	3	0	2	130
				BLC	4,572	1	0	1	93	4,925	1	0	1	101	4,987	1	0	1	102
				LCCO	3,402	1	0	2	69	3,665	1	0	2	75	3,711	1	0	2	76
				RCCO	3,402	1	0	2	69	3,665	1	0	2	75	3,711	1	0	2	76
P3	20	1050	71W	T1S	7,833	2	0	2	110	8,438	2	0	2	119	8,545	2	0	2	120
				T2S	7,825	2	0	2	110	8,429	2	0	2	119	8,536	2	0	2	120
				T2M	7,865	2	0	2	111	8,473	2	0	2	119	8,580	2	0	2	121
				T3S	7,617	2	0	2	107	8,205	2	0	2	116	8,309	2	0	2	117
				T3M	7,846	2	0	2	111	8,452	2	0	2	119	8,559	2	0	2	121
				T4M	7,675	2	0	2	108	8,269	2	0	2	116	8,373	2	0	2	118
				TFTM	7,841	2	0	2	110	8,447	2	0	2	119	8,554	2	0	2	120
				T5VS	8,155	3	0	0	115	8,785	3	0	0	124	8,896	3	0	0	125
				T5S	8,162	3	0	1	115	8,792	3	0	1	124	8,904	3	0	1	125
				T5M	8,141	3	0	2	115	8,770	3	0	2	124	8,881	3	0	2	125
				T5W	8,204	3	0	2	116	8,838	4	0	2	124	8,950	4	0	2	126
				BLC	6,429	1	0	2	91	6,926	1	0	2	98	7,013	1	0	2	99
				LCCO	4,784	1	0	2	67	5,153	1	0	2	73	5,218	1	0	2	73
				RCCO	4,784	1	0	2	67	5,153	1	0	2	73	5,218	1	0	2	73
P4	20	1400	92W	T1S	9,791	2	0	2	106	10,547	2	0	2	115	10,681	2	0	2	116
				T2S	9,780	2	0	2	106	10,536	2	0	2	115	10,669	2	0	2	116
				T2M	9,831	2	0	2	107	10,590	2	0	2	115	10,724	2	0	2	117
				T3S	9,521	2	0	2	103	10,256	2	0	2	111	10,386	2	0	2	113
				T3M	9,807	2	0	2	107	10,565	2	0	2	115	10,698	2	0	2	116
				T4M	9,594	2	0	2	104	10,335	2	0	3	112	10,466	2	0	3	114
				TFTM	9,801	2	0	2	107	10,558	2	0	2	115	10,692	2	0	2	116
				T5VS	10,193	3	0	1	111	10,981	3	0	1	119	11,120	3	0	1	121
				T5S	10,201	3	0	1	111	10,990	3	0	1	119	11,129	3	0	1	121
				T5M	10,176	4	0	2	111	10,962	4	0	2	119	11,101	4	0	2	121
				T5W	10,254	4	0	3	111	11,047	4	0	3	120	11,186	4	0	3	122
				BLC	8,036	1	0	2	87	8,656	1	0	2	94	8,766	1	0	2	95
				LCCO	5,979	1	0	2	65	6,441	1	0	2	70	6,523	1	0	3	71
				RCCO	5,979	1	0	2	65	6,441	1	0	2	70	6,523	1	0	3	71

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

Power Package	LED Count	Drive Current	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P5	40	700	89W	T1S	10,831	2	0	2	122	11,668	2	0	2	131	11,816	2	0	2	133
				T2S	10,820	2	0	2	122	11,656	2	0	2	131	11,803	2	0	2	133
				T2M	10,876	2	0	2	122	11,716	2	0	2	132	11,864	2	0	2	133
				T3S	10,532	2	0	2	118	11,346	2	0	2	127	11,490	2	0	2	129
				T3M	10,849	2	0	2	122	11,687	2	0	2	131	11,835	2	0	2	133
				T4M	10,613	2	0	3	119	11,434	2	0	3	128	11,578	2	0	3	130
				TFTM	10,842	2	0	2	122	11,680	2	0	2	131	11,828	2	0	2	133
				T5VS	11,276	3	0	1	127	12,148	3	0	1	136	12,302	3	0	1	138
				T5S	11,286	3	0	1	127	12,158	3	0	1	137	12,312	3	0	1	138
				T5M	11,257	4	0	2	126	12,127	4	0	2	136	12,280	4	0	2	138
				T5W	11,344	4	0	3	127	12,221	4	0	3	137	12,375	4	0	3	139
				BLC	8,890	1	0	2	100	9,576	1	0	2	108	9,698	1	0	2	109
				LCCO	6,615	1	0	3	74	7,126	1	0	3	80	7,216	1	0	3	81
				RCCO	6,615	1	0	3	74	7,126	1	0	3	80	7,216	1	0	3	81
P6	40	1050	134W	T1S	14,805	3	0	3	110	15,949	3	0	3	119	16,151	3	0	3	121
				T2S	14,789	3	0	3	110	15,932	3	0	3	119	16,134	3	0	3	120
				T2M	14,865	3	0	3	111	16,014	3	0	3	120	16,217	3	0	3	121
				T3S	14,396	3	0	3	107	15,509	3	0	3	116	15,705	3	0	3	117
				T3M	14,829	2	0	3	111	15,975	3	0	3	119	16,177	3	0	3	121
				T4M	14,507	2	0	3	108	15,628	3	0	3	117	15,826	3	0	3	118
				TFTM	14,820	2	0	3	111	15,965	3	0	3	119	16,167	3	0	3	121
				T5VS	15,413	4	0	1	115	16,604	4	0	1	124	16,815	4	0	1	125
				T5S	15,426	3	0	1	115	16,618	4	0	1	124	16,828	4	0	1	126
				T5M	15,387	4	0	2	115	16,576	4	0	2	124	16,786	4	0	2	125
				T5W	15,506	4	0	3	116	16,704	4	0	3	125	16,915	4	0	3	126
				BLC	12,151	1	0	2	91	13,090	1	0	2	98	13,255	1	0	2	99
				LCCO	9,041	1	0	3	67	9,740	1	0	3	73	9,863	1	0	3	74
				RCCO	9,041	1	0	3	67	9,740	1	0	3	73	9,863	1	0	3	74
P7	40	1300	166W	T1S	17,023	3	0	3	103	18,338	3	0	3	110	18,570	3	0	3	112
				T2S	17,005	3	0	3	102	18,319	3	0	3	110	18,551	3	0	3	112
				T2M	17,092	3	0	3	103	18,413	3	0	3	111	18,646	3	0	3	112
				T3S	16,553	3	0	3	100	17,832	3	0	3	107	18,058	3	0	3	109
				T3M	17,051	3	0	3	103	18,369	3	0	3	111	18,601	3	0	3	112
				T4M	16,681	3	0	3	100	17,969	3	0	3	108	18,197	3	0	3	110
				TFTM	17,040	3	0	3	103	18,357	3	0	4	111	18,590	3	0	4	112
				T5VS	17,723	4	0	1	107	19,092	4	0	1	115	19,334	4	0	1	116
				T5S	17,737	4	0	2	107	19,108	4	0	2	115	19,349	4	0	2	117
				T5M	17,692	4	0	2	107	19,059	4	0	2	115	19,301	4	0	2	116
				T5W	17,829	5	0	3	107	19,207	5	0	3	116	19,450	5	0	3	117
				BLC	13,971	2	0	2	84	15,051	2	0	2	91	15,241	2	0	2	92
				LCCO	10,396	1	0	3	63	11,199	1	0	3	67	11,341	1	0	3	68
				RCCO	10,396	1	0	3	63	11,199	1	0	3	67	11,341	1	0	3	68

Banner Project C
Medical Center

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ISSUED FOR	REV	DATE
ENTITLEMENT REVIEW		*15APR22*

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE

ELECTRICAL LIGHTING SPECIFICATION SHEETS

PROJECT NUMBER 13178

SHEET NUMBER **ENT_E3**

5-ZN-2022
9/20/2022

Plot Date: 4/18/2022 9:48:05 AM
Author

Banner Project C Medical Center

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ISSUED FOR	REV	DATE
ENTITLEMENT REVIEW		15APR22

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE
ELECTRICAL LIGHTING SPECIFICATION SHEETS

13178
PROJECT NUMBER

ENT_E4
SHEET NUMBER

5-ZN-2022
9/20/2022

Plot Date: 4/18/2022 9:48:05 AM Author

D-Series Size 1
LED Area Luminaire

Buy American

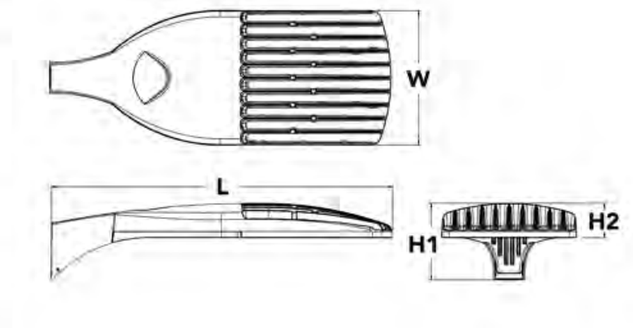
Catalog Number

Notes

Type

Specifications

EPA:	1.01 ft² (0.09 m²)
Length:	33" (83.8 cm)
Width:	13" (33.0 cm)
Height H1:	7-1/2" (19.0 cm)
Height H2:	3-1/2"
Weight (max):	27 lbs (12.2 kg)



Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 750W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX1 LED P7 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX1 LED

[illegible]

Performance Data

Lumen Output

[illegible]

FEATURES & SPECIFICATIONS

INTENDED USE
The sleek design of the D-Series Size 0 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and pedestrian areas.

CONSTRUCTION
Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (0.95 ft²) for optimized pole wind loading.

FINISH
Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS
Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K or 5000 K (70 CRI) configurations. The D-Series Size 0 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL
Light engine(s) configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS
The DSX0 LED area luminaire has a number of control options. DSX Size 0, comes standard with 0-10V dimming driver. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensors with on-board photocells feature field-adjustable programing and are suitable for mounting heights up to 30 feet.

nLIGHT AIR CONTROLS
The DSX0 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclypse. Additional information about nLight Air can be found here.

INSTALLATION
Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 0 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 0 utilizes the AERIS™ series pole drilling pattern (template #8). Optional terminal block and NEMA photocontrol receptacle are also available.

LISTINGS
UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C to 50°C ambient with HA option. U.S. Patent No. D672,492 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

BUY AMERICAN
Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to [illegible] for additional information.

WARRANTY
5-year limited warranty. Complete warranty terms located at: [illegible]

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

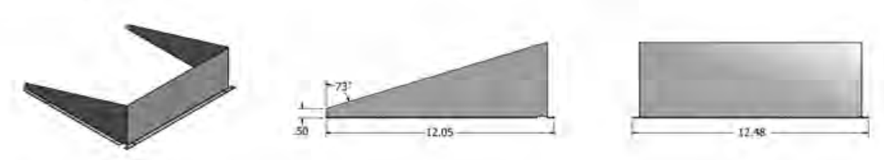
Ordering Information

Accessories

[illegible]

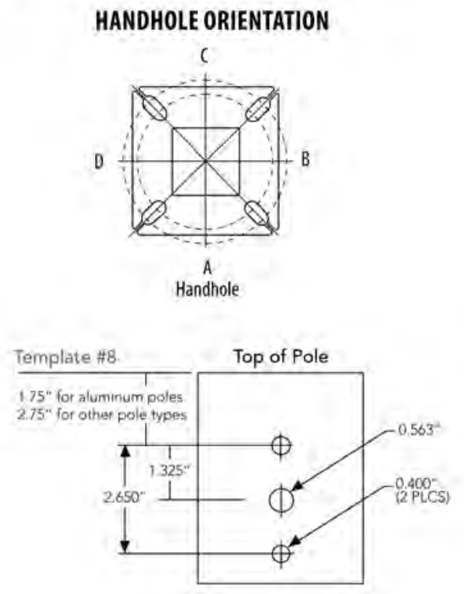
Options

EGS - External Glare Shield



Drilling

HANDHOLE ORIENTATION



Tenon Mounting Slipfitter

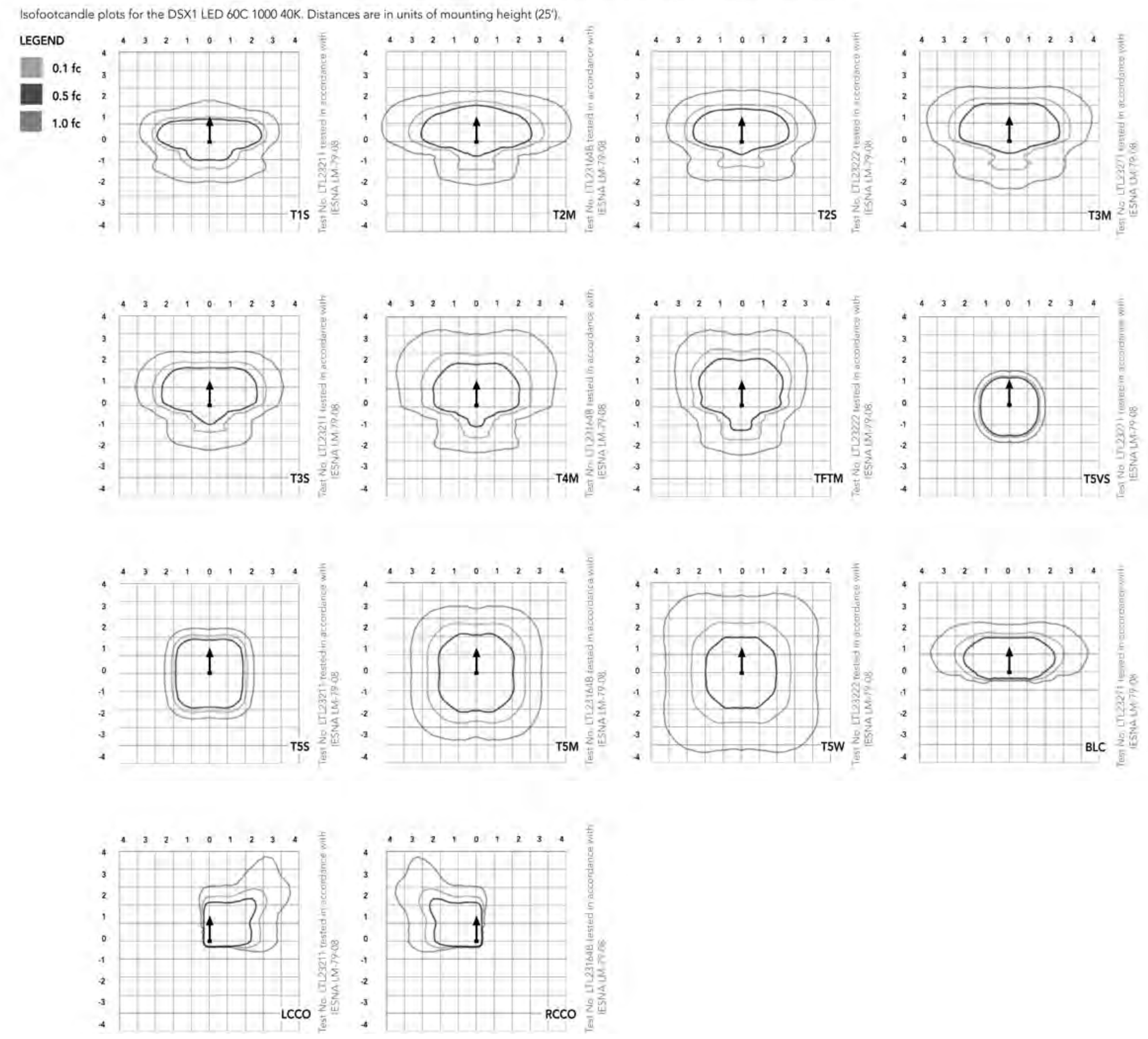
[illegible]

DSX1 Area Luminaire - EPA

[illegible]

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Area Size 1 homepage.



Performance Data

Lumen Ambient Temperature (LAT) Multipliers

[illegible]

Projected LED Lumen Maintenance

[illegible]

Electrical Load

[illegible]

Control Options

[illegible]

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts Contact factory for performance data on any configurations not shown here.

Forward Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
30	530	**P1**	54W	T1S	6,457	2	0	2	120	6,956	2	0	2	129	7,044	2	0	2	130
				T2S	6,450	2	0	2	119	6,949	2	0	2	129	7,037	2	0	2	130
				T2M	6,483	1	0	1	120	6,984	2	0	2	129	7,073	2	0	2	131
				T3S	6,279	2	0	2	116	6,764	2	0	2	125	6,850	2	0	2	127
				T3M	6,468	1	0	2	120	6,967	1	0	2	129	7,056	1	0	2	131
				T4M	6,327	1	0	2	117	6,816	1	0	2	126	6,902	1	0	2	128
				TFTM	6,464	1	0	2	120	6,963	1	0	2	129	7,051	1	0	2	131
				T5VS	6,722	2	0	0	124	7,242	3	0	0	134	7,334	3	0	0	136
				T5S	6,728	2	0	1	125	7,248	2	0	1	134	7,340	2	0	1	136
				T5M	6,711	3	0	1	124	7,229	3	0	1	134	7,321	3	0	2	136
				T5W	6,667	3	0	2	123	7,182	3	0	2	133	7,273	3	0	2	135
				BLC	5,299	1	0	1	98	5,709	1	0	2	106	5,781	1	0	2	107
				LCCO	3,943	1	0	2	73	4,248	1	0	2	79	4,302	1	0	2	80
				RCCO	3,943	1	0	2	73	4,248	1	0	2	79	4,302	1	0	2	80
30	700	**P2**	70W	T1S	8,249	2	0	2	118	8,886	2	0	2	127	8,999	2	0	2	129
				T2S	8,240	2	0	2	118	8,877	2	0	2	127	8,989	2	0	2	128
				T2M	8,283	2	0	2	118	8,923	2	0	2	127	9,036	2	0	2	129
				T3S	8,021	2	0	2	115	8,641	2	0	2	123	8,751	2	0	2	125
				T3M	8,263	2	0	2	118	8,901	2	0	2	127	9,014	2	0	2	129
				T4M	8,083	2	0	2	115	8,708	2	0	2	124	8,818	2	0	2	126
				TFTM	8,257	2	0	2	118	8,896	2	0	2	127	9,008	2	0	2	129
				T5VS	8,588	3	0	0	123	9,252	3	0	0	132	9,369	3	0	0	134
				T5S	8,595	3	0	1	123	9,259	3	0	1	132	9,376	3	0	1	134
				T5M	8,573	3	0	2	122	9,236	3	0	2	132	9,353	3	0	2	134
				T5W	8,517	3	0	2	122	9,175	4	0	2	131	9,291	4	0	2	133
				BLC	6,770	1	0	2	97	7,293	1	0	2	104	7,386	1	0	2	106
				LCCO	5,038	1	0	2	72	5,427	1	0	2	78	5,496	1	0	2	79
				RCCO	5,038	1	0	2	72	5,427	1	0	2	78	5,496	1	0	2	79
30	1050	**P3**	102W	T1S	11,661	2	0	2	114	12,562	3	0	3	123	12,721	3	0	3	125
				T2S	11,648	2	0	2	114	12,548	3	0	3	123	12,707	3	0	3	125
				T2M	11,708	2	0	2	115	12,613	2	0	2	124	12,773	2	0	2	125
				T3S	11,339	2	0	2	111	12,215	3	0	3	120	12,370	3	0	3	121
				T3M	11,680	2	0	2	115	12,582	2	0	2	123	12,742	2	0	2	125
				T4M	11,426	2	0	3	112	12,309	2	0	3	121	12,465	2	0	3	122
				TFTM	11,673	2	0	2	114	12,575	2	0	3	123	12,734	2	0	3	125
				T5VS	12,140	3	0	1	119	13,078	3	0	1	128	13,244	3	0	1	130
				T5S	12,150	3	0	1	119	13,089	3	0	1	128	13,254	3	0	1	130
				T5M	12,119	4	0	2	119	13,056	4	0	2	128	13,221	4	0	2	130
				T5W	12,040	4	0	3	118	12,970	4	0	3	127	13,134	4	0	3	129
				BLC	9,570	1	0	2	94	10,310	1	0	2	101	10,440	1	0	2	102
				LCCO	7,121	1	0	3	70	7,671	1	0	3	75	7,768	1	0	3	76
				RCCO	7,121	1	0	3	70	7,671	1	0	3	75	7,768	1	0	3	76
30	1250	**P4**	125W	T1S	13,435	3	0	3	107	14,473	3	0	3	116	14,657	3	0	3	117
				T2S	13,421	3	0	3	107	14,458	3	0	3	116	14,641	3	0	3	117
				T2M	13,490	2	0	2	108	14,532	3	0	3	116	14,716	3	0	3	118
				T3S	13,064	3	0	3	105	14,074	3	0	3	113	14,252	3	0	3	114
				T3M	13,457	2	0	2	108	14,497	2	0	2	116	14,681	2	0	2	117
				T4M	13,165	2	0	3	105	14,182	2	0	3	113	14,362	2	0	3	115
				TFTM	13,449	2	0	3	108	14,488	2	0	3	116	14,672	2	0	3	117
				T5VS	13,987	4	0	1	112	15,068	4	0	1	121	15,259	4	0	1	122
				T5S	13,999	3	0	1	112	15,080	3	0	1	121	15,271	3	0	1	122
				T5M	13,963	4	0	2	112	15,042	4	0	2	120	15,233	4	0	2	122
				T5W	13,872	4	0	3	111	14,944	4	0	3	120	15,133	4	0	3	121
				BLC	11,027	1	0	2	88	11,879	1	0	2	95	12,029	1	0	2	96
				LCCO	8,205	1	0	3	66	8,839	1	0	3	71	8,951	1	0	3	72
				RCCO	8,205	1	0	3	66	8,839	1	0	3	71	8,951	1	0	3	72
30	1400	**P5**	138W	T1S	14,679	3	0	3	106	15,814	3	0	3	115	16,014	3	0	3	116
				T2S	14,664	3	0	3	106	15,797	3	0	3	114	15,997	3	0	3	116
				T2M	14,739	3	0	3	107	15,878	3	0	3	115	16,079	3	0	3	117
				T3S	14,274	3	0	3	103	15,377	3	0	3	111	15,572	3	0	3	113
				T3M	14,704	2	0	3	107	15,840	3	0	3	115	16,040	3	0	3	116
				T4M	14,384	2	0	3	104	15,496	3	0	3	112	15,692	3	0	3	114
				TFTM	14,695	2	0	3	106	15,830	3	0	3	115	16,030	3	0	3	116
				T5VS	15,283	4	0	1	111	16,464	4	0	1	119	16,672	4	0	1	121
				T5S	15,295	3	0	1	111	16,477	4	0	1	119	16,686	4	0	1	121
				T5M	15,257	4	0	2	111	16,435	4	0	2	119	16,644	4	0	2	121
				T5W	15,157	4	0	3	110	16,328	4	0	3	118	16,534	4	0	3	120
				BLC	12,048	1	0	2	87	12,979	1	0	2	94	13,143	1	0	2	95
				LCCO	8,965	1	0	3	65	9,657	1	0	3	70	9,780	1	0	3	71
				RCCO	8,965	1	0	3	65	9,657	1	0	3	70	9,780	1	0	3	71

LITHONIA LIGHTING
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Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
40	1250	**P6**	163W	T1S	17,654	3	0	3	108	19,018	3	0	3	117	19,259	3	0	3	118
				T2S	17,635	3	0	3	108	18,998	3	0	3	117	19,238	3	0	3	118
				T2M	17,726	3	0	3	109	19,096	3	0	3	117	19,337	3	0	3	119
				T3S	17,167	3	0	3	105	18,493	3	0	3	113	18,727	3	0	3	115
				T3M	17,683	3	0	3	108	19,049	3	0	3	117	19,290	3	0	3	118
				T4M	17,299	3	0	3	106	18,635	3	0	4	114	18,871	3	0	4	116
				TFTM	17,672	3	0	3	108	19,038	3	0	4	117	19,279	3	0	4	118
				T5VS	18,379	4	0	1	113	19,800	4	0	1	121	20,050	4	0	1	123
				T5S	18,394	4	0	2	113	19,816	4	0	2	122	20,066	4	0	2	123
				T5M	18,348	4	0	2	113	19,766	4	0	2	121	20,016	4	0	2	123
				T5W	18,228	5	0	3	112	19,636	5	0	3	120	19,885	5	0	3	122
				BLC	14,489	2	0	2	89	15,609	2	0	3	96	15,806	2	0	3	97
				LCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72
				RCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72
40	1400	**P7**	183W	T1S	19,227	3	0	3	105	20,712	3	0	3	113	20,975	3	0	3	115
				T2S	19,206	3	0	3	105	20,690	3	0	3	113	20,952	3	0	3	114
				T2M	19,305	3	0	3	105	20,797	3	0	3	114	21,060	3	0	3	115
				T3S	18,696	3	0	3	102	20,141	3	0	3	110	20,396	3	0	4	111
				T3M	19,258	3	0	3	105	20,746	3	0	3	113	21,009	3	0	3	115
				T4M	18,840	3	0	4	103	20,296	3	0	4	111	20,553	3	0	4	112
				TFTM	19,246	3	0	4	105	20,734	3	0	4	113	20,996	3	0	4	115
				T5VS	20,017	4	0	1	109	21,564	4	0	1	118	21,837	4	0	1	119
				T5S	20,033	4	0	2	109	21,581	4	0	2	118	21,854	4	0	2	119
				T5M	19,983	4	0	2	109	21,527	5	0	3	118	21,799	5	0	3	119
				T5W	19,852	5	0	3	108	21,386	5	0	3	117	21,656	5	0	3	118
				BLC	15,780	2	0	3	86	16,999	2	0	3	93	17,214	2	0	3	94
				LCCO	11,742	2	0	3	64	12,649	2	0	3	69	12,809	2	0	3	70
				RCCO	11,742	2	0	3	64	12,649	2	0	3	69	12,809	2	0	3	70
60	1050	**P8**	207W	T1S	22,490	3	0	3	109	24,228	3	0	3	117	24,535	3	0	3	119
				T2S	22,466	3	0	4	109	24,202	3	0	4	117	24,509	3	0	4	118
				T2M	22,582	3	0	3	109	24,327	3	0	3	118	24,635	3	0	3	119
				T3S	21,870	3	0	4	106	23,560	3	0	4	114	23,858	3	0	4	115
				T3M	22,527	3	0	4	109	24,268	3	0	4	117	24,575	3	0	4	119
				T4M	22,038	3	0	4	106	23,741	3	0	4	115	24,041	3	0	4	116
				TFTM	22,513	3	0	4	109	24,253	3	0	4	117	24,560	3	0	4	119
				T5VS	23,415	5	0	1	113	25,224	5	0	1	122	25,543	5	0	1	123
				T5S	23,434	4	0	2	113	25,244	4	0	2	122	25,564	4	0	2	123
				T5M	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123
				T5W	23,221	5	0	4	112	25,016	5	0	4	121	25,332	5	0	4	122
				BLC	18,458	2	0	3	89	19,885	2	0	3	96	20,136	2	0	3	97
				LCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
				RCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
60	1250	**P9**	241W	T1S	25,575	3	0	3	106	27,551	3	0	3	114	27,900	3	0	3	116
				T2S	25,548	3	0	4	106	27,522	3	0	4	114	27,871	3	0	4	116
				T2M	25,680	3	0	3	107	27,664	3	0	3	115	28,014	3	0	3	116
				T3S	24,870	3	0	4	103	26,791	3	0	4	111	27,130	3	0	4	113
				T3M	25,617	3	0	4	106	27,597	3	0	4	115	27,946	3	0	4	116
				T4M	25,061	3	0	4	104	26,997	3	0	4	112	27,339	3	0	4	113
				TFTM	25,602	3	0	4	106	27,580	3	0	4	114	27,929	3	0	4	116
				T5VS	26,626	5	0	1	110	28,684	5	0	1	119	29,047	5	0	1	121
				T5S	26,648	4	0	2	111	28,707	5	0	2	119	29,070	5	0	2	121
				T5M	26,581	5	0	3	110	28,635	5	0	3	119	28,997	5	0	3	120
				T5W	26,406	5	0	4	110	28,447	5	0	4	118	28,807	5	0	4	120
				BLC	20,990	2	0	3	87	22,612	2	0	3	94	22,898	2	0	3	95
				LCCO	15,619	2	0	4	65	16,825	2	0	4	70	17,038	2	0	4	71
				RCCO	15,619	2	0	4	65	16,825	2	0	4	70	17,038	2	0	4	71

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Performance Data

Lumen Output

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Rotated Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
60	530	**P10**	106W	T1S	13,042	3	0	3	123	14,050	3	0	3	133	14,228	3	0	3	134
				T2S	12,967	4	0	4	122	13,969	4	0	4	132	14,146	4	0	4	133
				T2M	13,201	3	0	3	125	14,221	3	0	3	134	14,401	3	0	3	136
				T3S	12,766	4	0	4	120	13,752	4	0	4	130	13,926	4	0	4	131
				T3M	13,193	4	0	4	124	14,213	4	0	4	134	14,393	4	0	4	136
				T4M	12,944	4	0	4	122	13,945	4	0	4	132	14,121	4	0	4	133
				TFTM	13,279	4	0	4	125	14,305	4	0	4	135	14,486	4	0	4	137
				T5VS	13,372	3	0	1	126	14,405	4	0	1	136	14,588	4	0	1	138
				T5S	13,260	3	0	1	125	14,284	3	0	1	135	14,465	3	0	1	136
				T5M	13,256	4	0	2	125	14,281	4	0	2	135	14,462	4	0	2	136
				T5W	13,137	4	0	3	124	14,153	4	0	3	134	14,332	4	0	3	135
				BLC	10,906	3	0	3	103	11,749	3	0	3	111	11,898	3	0	3	112
				LCCO	7,789	1	0	3	73	8,391	1	0	3	79	8,497	1	0	3	80
				RCCO	7,779	4	0	4	73	8,380	4	0	4	79	8,486	4	0	4	80
60	700	**P11**	137W	T1S	16,556	3	0	3	121	17,835	3	0	3	130	18,061	4	0	4	132
				T2S	16,461	4	0	4	120	17,733	4	0	4	129	17,957	4	0	4	131
				T2M	16,758	4	0	4	122	18,053	4	0	4	132	18,281	4	0	4	133
				T3S	16,205	4	0	4	118	17,457	4	0	4	127	17,678	4	0	4	129
				T3M	16,748	4	0	4	122	18,042	4	0	4	132	18,271	4	0	4	133
				T4M	16,432	4	0	4	120	17,702	4	0	4	129	17,926	4	0	4	131
				TFTM	16,857	4	0	4	123	18,159	4	0	4	133	18,389	4	0	4	134
				T5VS	16,975	4	0	1	124	18,287	4	0	1	133	18,518	4	0	1	135
				T5S	16,832	4	0	1	123	18,133	4	0	2	132	18,362	4	0	2	134
				T5M	16,828	4	0	2	123	18,128	4	0	2	132	18,358	4	0	2	134
				T5W	16,677	4	0	3	122	17,966	5	0	3	131	18,193	5	0	3	133
				BLC	13,845	3	0	3	101	14,915	3	0	3	109	15,103	3	0	3	110
				LCCO	9,888	1	0	3	72	10,652	2	0	3	78	10,787	2	0	3	79
				RCCO	9,875	4	0	4	72	10,638	4	0	4	78	10,773	4	0	4	79
60	1050	**P12**	207W	T1S	22,996	4	0	4	111	24,773	4	0	4	120	25,087	4	0	4	121
				T2S	22,864	4	0	4	110	24,631	5	0	5	119	24,943	5	0	5	120
				T2M	23,277	4	0	4	112	25,075	4	0	4	121	25,393	4	0	4	123
				T3S	22,509	4	0	4	109	24,248	5	0	5	117	24,555	5	0	5	119
				T3M	23,263	4	0	4	112	25,061	4	0	4	121	25,378	4	0	4	123
				T4M	22,824	5	0	5	110	24,588	5	0	5	119	24,899	5	0	5	120
				TFTM	23,414	5	0	5	113	25,223	5	0	5	122	25,543	5	0	5	123
				T5VS	23,579	5	0	1	114	25,401	5	0	1	123	25,722	5	0	1	124
				T5S	23,380	4	0	2	113	25,187	4	0	2	122	25,506	4	0	2	123
				T5M	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123
				T5W	23,165	5	0	4	112	24,955	5	0	4	121	25,271	5	0	4	122
				BLC	19,231	4	0	4	93	20,717	4	0	4	100	20,979	4	0	4	101
				LCCO	13,734	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
				RCCO	13,716	4	0	4	66	14,776	4	0	4	71	14,963	4	0	4	72
60	1250	**P13**	231W	T1S	25,400	4	0	4	110	27,363	4	0	4	118	27,709	4	0	4	120
				T2S	25,254	5	0	5	109	27,205	5	0	5	118	27,550	5	0	5	119
				T2M	25,710	4	0	4	111	27,696	4	0	4	120	28,047	4	0	4	121
				T3S	24,862	5	0	5	108	26,783	5	0	5	116	27,122	5	0	5	117
				T3M	25,695	5	0	5	111	27,680	5	0	5	120	28,031	5	0	5	121
				T4M	25,210	5	0	5	109	27,158	5	0	5	118	27,502	5	0	5	119
				TFTM	25,861	5	0	5	112	27,860	5	0	5	121	28,212	5	0	5	122
				T5VS	26,043	5	0	1	113	28,056	5	0	1	121	28,411	5	0	1	123
				T5S	25,824	4	0	2	112	27,819	5	0	2	120	28,172	5	0	2	122
				T5M	25,818	5	0	3	112	27,813	5	0	3	120	28,165	5	0	3	122
				T5W	25,586	5	0	4	111	27,563	5	0	4	119	27,912	5	0	4	121
				BLC	21,241	4	0	4	92	22,882	4	0	4	99	23,172	4	0	4	100
				LCCO	15,170	2	0	4	66	16,342	2	0	4	71	16,549	2	0	4	72
				RCCO	15,150	5	0	5	66	16,321	5	0	5	71	16,527	5	0	5	72

LITHONIA LIGHTING
COMMERCIAL OUTDOOR

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FEATURES & SPECIFICATIONS

INTENDED USE
The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

CONSTRUCTION
Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.01 ft²) for optimized pole wind loading.

FINISH
Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS
Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL
Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS
The DSX1 LED area luminaire has a number of control options. DSX Size 1, comes standard with 0-10V dimming drivers. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensors with on-board photocells feature field-adjustable programing and are suitable for mounting heights up to 30 feet.

nLIGHT AIR CONTROLS
The DSX1 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaries can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclypse. Additional information about nLight Air can be found here.

INSTALLATION
Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 1 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 1 utilizes the AERIS™ series pole drilling pattern (template #8). NEMA photocontrol receptacle are also available.

LISTINGS
UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at [illegible] to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

BUY AMERICAN
Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to [illegible] for additional information.

WARRANTY
5-year limited warranty. Complete warranty terms located at:
[illegible]

Note: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

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D-Series
LED Bollard

Catalog Number

Notes

Type

Introduction

The D-Series LED Bollard is a stylish, energy-saving, long-life solution designed to perform the way a bollard should—with zero uplight. An optical leap forward, this full cut-off luminaire will meet the most stringent of lighting codes. The D-Series LED Bollard's rugged construction, durable finish and long-lasting LEDs will provide years of maintenance-free service.

Specifications

Diameter:	8" Round (20.3 cm)
Height:	42" (106.7 cm)
Weight (max):	27 lbs (12.25 kg)

Ordering Information

EXAMPLE: DSXB LED 16C 700 40K SYM MVOLT DDBXD

DSXB LED

Series	LEDs	Drive current	Color temperature	Distribution	Voltage	Control options	Other options	Finish
DSXB LED	**Asymmetric** 12C 12 LEDs[1] **Symmetric** 16C 16 LEDs[2]	350 350 mA 450 450 mA[3,4] 530 530 mA 700 700 mA	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted AMBLW Amber limited wavelength[6,3]	ASY Asymmetric[1] SYM Symmetric[2]	MVOLT[5] 120[5] 208[5] 240[5] 277[5] 347[4]	**Shipped installed** PE Photoelectric cell, button type DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) ELCW Emergency battery backup[6]	**Shipped installed** SF Single fuse (120, 277, 347V)[4,7] DF Double fuse (208, 240V)[4,7] H24 24" overall height H30 30" overall height H36 36" overall height FG Ground-fault festoon outlet L/AB Without anchor bolts L/AB4 4-bolt retrofit base without anchor bolts[8]	DWHXD White DNAXD Natural aluminum DDBXD Dark bronze DBLXD Black DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

Accessories
Ordered and shipped separately

MRAB U	Anchor bolts for DSXB[8]

NOTES
1 Only available in the 12C, ASY version.
2 Only available in the 16C, SYM version.
3 Only available with 450 AMBLW version.
4 Not available with ELCW.
5 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options), or photocontrol (PE option).
6 Not available with 347V. Not available with fusing. Not available with 450 AMBLW.
7 Single fuse (SF) requires 120, 277, or 347 voltage option. Double fuse (DF) requires 208 or 240 voltage option.
8 MRAB U not available with L/AB4 option.

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Performance Data

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Actual wattage may differ by +/- 8% when operating between 120-480V +/- 10%.

Light Engines	Drive Current	System Watts	3000 K					4000 K					5000 K					Limited Wavelength Amber				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
Asymmetric (12 LEDs)	350	16	1,194	75	1	0	1	1,283	80	1	0	1	1,291	81	1	0	1					
	530	22	1,719	78	1	0	1	1,847	84	1	0	1	1,859	85	1	0	1					
	700	31	2,173	70	1	0	1	2,335	75	1	0	1	2,349	76	1	0	1					
	Amber 450	16																348	22	1	0	1
Symmetric (16 LEDs)	350	20	1,558	78	1	0	0	1,674	84	1	0	0	1,685	84	1	0	0					
	530	28	2,232	80	2	0	1	2,397	86	2	0	1	2,412	86	2	0	1					
	700	39	2,802	72	2	0	1	3,009	77	2	0	1	3,028	78	2	0	1					
	Amber 450	20																419	21	1	0	1

Note: Available with phosphor-converted amber LED's (nomenclature AMBPC). These LED's produce light with 97+% >530 nm. Output can be calculated by applying a 0.7 factor to 4000 K lumen values and photometric files.

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.00	0.98	0.97	0.95

Electrical Load

Light Engines	Drive Current (mA)	System Watts	Current (A)				
			120	208	240	277	347
12C	350	16W	0.158	0.118	0.114	0.109	0.105
	530	22W	0.217	0.146	0.136	0.128	0.118
	700	31W	0.296	0.185	0.168	0.153	0.139
	Amber 450	16W	0.161	0.120	0.115	0.110	0.106
16C	350	20W	0.197	0.137	0.128	0.121	0.114
	530	28W	0.282	0.178	0.162	0.148	0.135
	700	39W	0.385	0.231	0.207	0.185	0.163
	Amber 450	20W	0.199	0.139	0.130	0.123	0.116

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [illegible]

Isofootcandle plots for the DSXB LED 700 40K. Distances are in units of mounting height (3').

FEATURES & SPECIFICATIONS

INTENDED USE
The rugged construction and maintenance-free performance of the D-Series LED Bollard is ideal for illuminating building entryways, walking paths and pedestrian plazas, as well as any other location requiring a low-mounting-height light source.

CONSTRUCTION
One-piece 8-inch-round extruded aluminum shaft with thick side walls for extreme durability, and die-cast aluminum reflector and top cap. Die-cast aluminum mounting ring allows for easy leveling even in uneven areas and full 360-degree rotation for precise alignment during installation. Three ½" x 11" anchor bolts with double nuts and washers and 3-5/8" max. bolt circle template ensure stability. Overall height is 42" standard.

FINISH
Exterior parts are protected by a zinc-infused super durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering for maximum retention of gloss and luster. A tightly controlled multi-stage process ensures a minimum 3-mil thickness for a finish that can withstand the elements without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS
Two 0% uplight optical distributions are available: symmetrical and asymmetrical. IP66 sealed LED light engine provides smoothly graduated illumination without uplight. Light engines are available in standard 4000 K (>70 CRI) or optional 3000 K (>80 CRI) or 5000 K (67 CRI). Limited-wavelength amber LEDs are also available.

ELECTRICAL
Light engines consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (L95/100,000 hours at 700mA at 25°C). Class 2 electronic drivers are designed for an expected life of 100,000 hours with < 1% failure rate. Electrical components are mounted on a removable power tray.

LISTINGS
CSA certified to U.S. and Canadian standards. Light engines are IP66 rated. Rated for -40°C minimum ambient. Cold-weather emergency battery backup rated for -20°C minimum ambient.

BUY AMERICAN
This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FARS, DFARS and DOT. Please refer to [illegible] for additional information.

WARRANTY
Five-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at:
[illegible]

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

LITHONIA LIGHTING

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Banner Project C Medical Center

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ISSUED FOR	REV	DATE
ENTITLEMENT REVIEW		15APR22

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE
ELECTRICAL LIGHTING SPECIFICATION SHEETS

13178
PROJECT NUMBER

ENT_E5
SHEET NUMBER

5-ZN-2022
9/20/2022

Author
4/18/2022 9:48:06 AM
Plot Date:

LITHONIA LIGHTING

Catalog Number:	
Notes	
Type	

Heavy Industrial, Enclosed and Gasketed Industrial Strip

FEX LED

FEATURES & SPECIFICATIONS

Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. Click here for Acrylic-Polycarbonate Compatibility table for suitable use.

Certain airborne contaminants may adversely affect the functioning of LEDs and other electronic components, depending on various factors such as concentrations of the contaminants, ventilation, and temperature at the end-user location. Click here for a list of substances that may not be suitable for interaction with LEDs and other electronic components.

ENCLOSED CONSTRUCTION:
- Cast & Extruded Aluminum - Polyester Powder Coated
- 18-8 Stainless Steel Hardware
- 304 Stainless steel mounting bracket
- Molded Silicon Gasketing
- 3/4" threaded NPT end-caps standard
- Super durable TGIC thermoset powder coat finish provides 1500 hours salt fog rating. CR (corrosion resistant) optional finish is a five-stage pre-treating and painting process that yields over 5,000 hours salt rating per ASTM B117.

OPTICS & LENS:
- Clear & Frosted Polycarbonate, .125" thick
- Clear & Frosted Tempered Glass, .125" thick

ELECTRICAL:
- MVOLT (120-277V)
- HVOLT (347-480V)
- 0-10V, 10% Dimming

INSTALLATION:
- Angle (wall or ceiling) with optional RMBA.
- Pendant with PMP4X option (L24 only)
- Pole (1½" trade size pipe) with optional RMBU.
- Surface (ceiling) with standard mounting bracket or optional RMBK.
- Surface (wall) with optional RMBK.
- Suspended (chain or cable) with standard mounting bracket or optional RMBK.

LISTING & RATINGS:
- CSA Certified to meet US and Canadian standards.
- Suitable for use in wet locations.
- IP65, IP66, IP67, IP69K rated per IEC60529
- NEMA 4X rated
- IK rated (see chart on page 6)
- 1G vibration rated with standard mounting bracket, 3G vibration rated with optional rigid mount bracket (RMBK) per ANSI C136.31) (see Option Value Ordering Restrictions and Notes on page 3 for details)
- FCC Title 47, Part 15, Subpart B
- 6kV/3kA Surge Rated per ANSI C82.77-5-2015
- NSF Splash zone 2 rated (excludes RMBA option)
- -40°F (-40°C) to 158°F (70°C) ambient rating. (see chart on page 6)
- U.S. Patent No. D929015

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

BUY AMERICAN — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

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Embed nLight controls today. Prepare for tomorrow.

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

FEX LED

Low-Profile Enclosed and Gasketed

A+ Capable options indicated by this color background.

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.

Example: FEX L48 40000LM FPCL WD MVOLT GZ10 40K 80CRI DWHXD

Series	Length	Nominal Lumens	Diffuser	Distribution	Voltage	Driver	Color temperature	CRI
FEX	L24 24"	2000LM 2,000 lumens	FPCL Flat Poly Clear, .125" thick	MD Medium	MVOLT 120-277, 50/60hz	GZ10 0 - 10V dimming	30K 3000K	80CRI 80 CRI
		3000LM 3,000 lumens	FPFL Flat Poly Frost, .125" thick	WD Wide	HVOLT 347-480V, 50/60hz		35K 3500K	90CRI 90 CRI
		4000LM 4,000 lumens	FGFL Flat Glass Frost, .125" thick	PKD Parking Garage	120 120V, 50/60hz		40K 4000K	
		5000LM 5,000 lumens	FGCL Flat clear glass, .125" thick		277 277V, 50/60hz		50K 5000K	
		6000LM 6,000 lumens			347 347V, 50/60hz			
		7000LM 7,000 lumens			480 480V, 50/60hz			
		8000LM 8,000 lumens						
		9000LM 9,000 lumens						
	L48 48"	4000LM 4,000 lumens						
		6000LM 6,000 lumens						
		8000LM 8,000 lumens						
		10000LM 10,000 lumens						
		12000LM 12,000 lumens						
		14000LM 14,000 lumens						
		15000LM 15,000 lumens						
		18000LM 18,000 lumens						
		24000LM 24,000 lumens						
		28000LM 28,000 lumens						

Options

Emergency:
- E10WLCP Power Sentry® PS10SSMCP, 10W internal constant power emergency driver, 5°C min, UL924 Compliant, Certified in CA Title 20 MAEDBS (120-277) (LINK) 8
- BE6WCP Cold Weather, 6W internal emergency driver, -20°C min, UL924 Compliant, Certified in CA Title 20 MAEDBS (120 or 277V) 8

Other Options:
- BAA Buy America(n) Act Compliant
- IDS Independent Driver System 8
- IP67 Semi-submersible gasket kit 8
- PMP4X 4X Pendant monopoint (L24 only) 8
- RMBA Angled rigid mount bracket 8
- RMBK Rigid mount bracket 8
- RMBU Rigid mount U-bolt
- SPD10KV 10kV Surge Protection Device 120V-277V 8
- SPD10KVH 10kV Surge Protection Device 347V-480V 8

Cordsets:
- CPSB16FWL Brad Harrison® Mini-Change® cordset with male connector, 16-gauge, 3 conductors, yellow, 6 foot 8
- CPSB16FWL12FT Brad Harrison® Mini-Change® cordset with male connector, 16-gauge, 3 conductors, yellow, 12 foot 8
- CNP16WWL Cord only (no plug),16 gauge, 3 conductors, white, 6ft 8
- CNP16WWL12FT Cord only (no plug),16 gauge, 3 conductors, white, 12ft 8
- CNP165CDWWL Cord only (no plug),16 gauge, 5 conductors, includes 0-10V dimming leads, white, 6ft 8
- CNP164CWWL Cord only (no plug),16 gauge, 4 conductors, white, 6ft 8

Individual Controls
- SBGR10 360° Low Mount Sensor, (8-15' mounting heights), on/off occupancy (LINK)
- SBGR10 D 3V 360° Low Mount sensor, (8-15' mounting heights), high/low occupancy dimming (bi-level) (LINK)
- SBGR10 P 360° Low Mount Sensor, (8-15' mounting heights), on/off photocell (LINK)

nLight® Air Wireless:
- NLTAIR2 RIO nLight® Air Generation 2 enabled, fixture embedded network interface, 0-10V dimming output (LINK) 8
- NLTAIR2 RSBGG nLight® Air Generation 2 enabled, 360° high mount sensor, (15-30' mounting heights) (LINK)
- NLTAIR2 RSBG10 nLight® Air Generation 2 enabled, 360° low mount sensor, (8-15' mounting heights) (LINK)

Finish
- DWHXD White, super durable
- DBLXD Black, super durable
- DNAXD Natural aluminum, super durable

NOTE: 4 indicates option chosen has ordering restrictions. Please reference ordering restrictions chart.

Accessories: *Order as separate catalog number.*
- FEXRMBK Rigid mount bracket (QTY of 1) 8
- FEXRMBK L24 3G Rigid mount bracket kit for (L24) 2' fixtures, 3G rated (QTY of 2) 8
- FEXRMBK L48 3G Rigid mount bracket kit for (L48) 4' fixtures, 3G rated (QTY of 3) 8
- FEXRMBA Angle mount bracket (QTY of 2)
- FEXRMBU Rigid mount U-bolt bracket (QTY of 2)

Option value ordering restrictions are on page 3.

FEX LED

Low-Profile Enclosed and Gasketed

‡ Option Value Ordering Restrictions & Notes	
Option value	**Restriction**
BE6WCP	Only available in 120V or 277V. Requires SPD10KV or SPD10KVH option. Ambient limited to 35 °C. Not available in L24 8000LM - 9000LM OR L48 15000LM- 28000LM. Utilizes Bodine BSL36 Cold EM driver.
CPSB16FWL	Not available with E10WLCP or BE6WCP. Utilizes cordset part number: 10300240191702.
CPSB16FWL12FT	Not available with E10WLCP or BE6WCP. Utilizes cordset part number: 10300240191302.
CNP16WWL, CNP16WWL12FT	Not available with E10WLCP or BE6WCP.
CNP165CDWWL	Not available with E10WLCP or BE6WCP. Not available with controls.
CNP164CWWL	Only available with E10WLCP or BE6WCP.
E10WLCP	Only available in MVOLT. Requires SPD10KV or SPD10KVH option. Ambient limited to 35 °C. Not available in L24 8000LM - 9000LM OR L48 15000LM- 28000LM. Utilizes Power Sentry™ PS10SSLCP EM driver.
FEXRMBK	A minimum QTY of 2 brackets are required to mount a fixture. For 3G vibration rated applications, a QTY of 2 brackets is required for L24 (2FT) and a QTY of 3 brackets is required for L48 (4FT).
FEXRMBK L24 3G	QTY of 2 brackets for L24 (2FT), 3G vibration rating.
FEXRMBK L48 3G	QTY of 3 brackets for L48 (4FT), 3G vibration rating.
IDS	Available with L48 only. Not available with individual controls or nLight® Air Wireless. Each 24" section of a L48 fixture will have a separate driver and LED board that can be controlled independently.
IP67	Requires RMBK, RMBA, or RMBU. Not available with individual controls or nLight® Air Wireless. Not IP67 rated if fixture is mounted facing upward as water can pool on the lens.
NLTAIR2 RIO	Not available with MVOLT, 347 or 480 with 2000LM or 3000LM.
NLTAIR2 RSBG6, NLTAIR2 RSBG10	Not available with MVOLT, 347 or 480 with 2000LM or 3000LM.
PMP4X	Not available with BE6WCP or E10WLCP battery options or with any sensors.
RMBA	Not rated for NSF applications.
RMBK	A QTY of 2 brackets will ship with the fixture. Not 3G vibration rated for L48 (4FT) fixtures. See accessories for L48 (4FT) 3G rated kit..
SPD10KV	Not available in HVOLT. Required with E10WLCP, SBGR or NLTAIR2 sensors.
SPD10KVH	Not available in MVOLT. Required with E10WLCP, SBGR or NLTAIR2 sensors.

EMERGENCY LUMEN OUTPUT

How to Estimate Delivered Lumens in Emergency Mode
Use the formula below to estimate the delivered lumens in emergency mode
Delivered Lumens = P x LPW
P = Output power of emergency driver:
LPW = Lumens per watt rating of the luminaire. (See charts on pages 4 and 5)
The LPW rating is also available at designlights.org/qpl
P = 10 watts for E10WCP
P = 6 watts for BE6WCP

Emergency Lumen Output Example - 10 Watt Battery

Approximate Luminaire Efficacy	Approximate Lumens at 1 Minute	Approximate Lumens at 45 Minutes	Approximate Lumens at 90 Minutes
100 LPW	1000	1000	**1000**
110 LPW	1100	1100	**1100**
120 LPW	1200	1200	**1200**
130 LPW	1300	1300	**1300**
140 LPW	1400	1400	**1400**
150 LPW	1500	1500	**1500**

FEX LED

Low-Profile Enclosed and Gasketed

OPERATIONAL DATA (80 CRI*, MD**, DWH***)

Length	Package	Input Wattage	CCT	FPCL Lumens (LPW)	FPFL Lumens (LPW)	FGCL Lumens (LPW)	FGFL Lumens (LPW)
L24	2000LM	13.7	30K	1911 (139)	1478 (108)	1922 (140)	1659 (121)
			35K	1949 (142)	1508 (110)	1961 (143)	1693 (124)
			40K	2132 (156)	1649 (120)	2145 (157)	1852 (135)
			50K	2066 (151)	1598 (117)	2078 (152)	1794 (131)
	3000LM	20.0	30K	2862 (143)	2214 (110)	2879 (144)	2485 (124)
			35K	2920 (146)	2259 (113)	2937 (147)	2536 (126)
			40K	3193 (159)	2470 (123)	3212 (160)	2773 (138)
			50K	3094 (154)	2393 (119)	3112 (155)	2687 (134)
	4000LM	27.5	30K	3851 (140)	2979 (108)	3874 (141)	3345 (121)
			35K	3929 (143)	3040 (110)	3953 (144)	3413 (124)
			40K	4298 (156)	3325 (121)	4324 (157)	3733 (136)
			50K	4164 (151)	3221 (117)	4189 (152)	3616 (131)
	5000LM	33.2	30K	4670 (141)	3613 (109)	4698 (141)	4056 (122)
			35K	4765 (143)	3686 (111)	4793 (144)	4138 (125)
			40K	5211 (157)	4032 (121)	5243 (158)	4526 (136)
			50K	5049 (152)	3906 (118)	5079 (153)	4385 (132)
	6000LM	39.6	30K	5535 (140)	4282 (108)	5568 (140)	4807 (121)
			35K	5648 (142)	4369 (110)	5681 (143)	4905 (124)
			40K	6177 (156)	4779 (120)	6214 (157)	5365 (135)
			50K	5985 (151)	4630 (117)	6020 (152)	5198 (131)
	7000LM	46.3	30K	6304 (136)	4877 (105)	6342 (137)	5475 (118)
			35K	6432 (139)	4976 (107)	6470 (140)	5586 (121)
			40K	7035 (152)	5442 (118)	7077 (153)	6110 (132)
			50K	6815 (147)	5272 (114)	6856 (148)	5919 (128)
	8000LM	54.5	30K	7311 (134)	5656 (104)	7355 (135)	6349 (117)
			35K	7459 (137)	5770 (106)	7504 (138)	6478 (119)
			40K	8158 (150)	6311 (116)	8207 (151)	7086 (130)
			50K	7904 (145)	6115 (112)	7951 (146)	6865 (126)
	9000LM	62.5	30K	8234 (132)	6370 (102)	8283 (133)	7151 (114)
			35K	8401 (134)	6499 (104)	8451 (135)	7296 (117)
			40K	9189 (147)	7108 (114)	9244 (148)	7980 (128)
			50K	8902 (142)	6887 (110)	8956 (143)	7732 (124)

* For 90CRI, reduce lumen output by 17.5%
** For WD reduce output by 5.9%, PGD reduce output by 10.8%
*** For DG reduce output by 7.1%, DBL reduce output by 11.4%

FEX LED

Low-Profile Enclosed and Gasketed

OPERATIONAL DATA (80 CRI*, MD**, DWH***)

Length	Package	Input Wattage	CCT	FPCL Lumens (LPW)	FPFL Lumens (LPW)	FGCL Lumens (LPW)	FGFL Lumens (LPW)
L48	4000LM	27.2	30K	3835 (141)	2967 (109)	3858 (141)	3331 (122)
			35K	3913 (144)	3027 (111)	3936 (144)	3398 (125)
			40K	4280 (157)	3311 (121)	4305 (158)	3717 (136)
			50K	4146 (152)	3208 (118)	4171 (153)	3601 (132)
	6000LM	39.5	30K	5598 (142)	4331 (110)	5632 (143)	4862 (123)
			35K	5712 (145)	4419 (112)	5746 (145)	4961 (126)
			40K	6247 (158)	4833 (122)	6285 (159)	5426 (137)
			50K	6053 (153)	4682 (118)	6089 (154)	5257 (133)
	8000LM	53.4	30K	7396 (139)	5722 (107)	7443 (139)	6424 (120)
			35K	7546 (141)	5838 (109)	7592 (142)	6554 (123)
			40K	8254 (155)	6385 (120)	8303 (156)	7168 (134)
			50K	7997 (150)	6186 (116)	8044 (151)	6945 (130)
	10000LM	66.6	30K	9476 (142)	7331 (110)	9533 (143)	8230 (124)
			35K	9669 (145)	7480 (112)	9727 (146)	8397 (126)
			40K	10575 (159)	8181 (123)	10638 (160)	9184 (138)
			50K	10245 (154)	7926 (119)	10307 (155)	8898 (134)
	12000LM	76.2	30K	10766 (141)	8329 (109)	10831 (142)	9350 (123)
			35K	10985 (144)	8498 (112)	11050 (145)	9540 (125)
			40K	12014 (158)	9294 (122)	12086 (159)	10434 (137)
			50K	11640 (153)	9005 (118)	11710 (154)	10109 (133)
	14000LM	90.0	30K	12570 (140)	9724 (108)	12645 (140)	10917 (121)
			35K	12825 (142)	9921 (110)	12901 (143)	11138 (124)
			40K	14027 (156)	10851 (121)	14111 (157)	12182 (135)
			50K	13590 (151)	10513 (117)	13671 (152)	11803 (131)
	15000LM	97.6	30K	13418 (137)	10381 (106)	13499 (138)	11654 (119)
			35K	13691 (140)	10591 (108)	13773 (141)	11890 (122)
			40K	14974 (153)	11584 (119)	15064 (154)	13005 (133)
			50K	14507 (149)	11223 (115)	14594 (149)	12600 (129)
	18000LM	121.8	30K	16070 (132)	12432 (102)	16166 (133)	13957 (115)
			35K	16396 (135)	12684 (104)	16494 (135)	14240 (117)
			40K	17933 (147)	13873 (114)	18040 (148)	15575 (128)
			50K	17374 (143)	13441 (110)	17478 (143)	15089 (124)
	24000LM	167.1	30K	22395 (134)	17325 (104)	22529 (135)	19450 (116)
			35K	22850 (137)	17677 (106)	22987 (138)	19845 (119)
			40K	24992 (150)	19334 (116)	25141 (151)	21706 (130)
			50K	24213 (145)	18732 (112)	24358 (146)	21029 (126)
	28000LM	210.5	30K	25392 (120)	19574 (93)	25454 (121)	21975 (104)
			35K	25816 (123)	19971 (95)	25970 (123)	22421 (107)
			40K	28236 (134)	21844 (104)	28405 (135)	24523 (117)
			50K	27356 (130)	21163 (101)	27519 (131)	23759 (113)

* For 90CRI, reduce lumen output by 17.5%
** For WD reduce output by 5.9%, PGD reduce output by 10.8%
*** For DG reduce output by 7.1%, DBL reduce output by 11.4%

LAT TABLE

Ambient Temp °C	L24 2000LM	L24 3000LM	L24 4000LM	L24 5000LM	L24 6000LM	L24 7000LM	L24 8000LM	L24 9000LM	L48 4000LM	L48 6000LM	L48 8000LM	L48 10000LM	L48 12000LM	L48 14000LM	L48 15000LM	L48 18000LM	L48 24000LM	L48 28000LM
-25°C	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30°C	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
35°C	0.99	0.99	0.99	0.99	0.99	0.99	0.98	0.98	0.99	0.99	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
40°C	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.97
45°C	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	NA	NA
50°C	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	NA	NA	NA
55°C	0.96	0.96	0.96	0.96	0.95	0.95	0.95	0.95	0.96	0.95	0.95	0.95	0.95	0.95	0.95	NA	NA	NA
60°C	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.94	0.94	NA	NA	NA
65°C	0.94	0.94	0.94	0.94	0.94	NA	NA	NA	0.94	0.94	0.94	0.94	NA	NA	NA	NA	NA	NA
70°C	NA	NA	NA	NA	NA	NA	NA	NA	0.93	0.93	0.93	0.93	NA	NA	NA	NA	NA	NA

FEX LED

Low-Profile Enclosed and Gasketed

CSA LISTED AMBIENT RATING*

		Standard	E10WCP Battery	BE6WCP Battery	RSBG, RIO, SBGR Controls
L24	2000LM	65°C	5°C - 35°C	-20°C - 35°C	60°C
	3000LM	65°C	5°C - 35°C	-20°C - 35°C	60°C
	4000LM	65°C	5°C - 35°C	-20°C - 35°C	60°C
	5000LM	65°C	5°C - 35°C	-20°C - 35°C	60°C
	6000LM	65°C	5°C - 35°C	-20°C - 35°C	60°C
	7000LM	60°C	5°C - 35°C	-20°C - 35°C	60°C
	8000LM	60°C	-	-	60°C
	9000LM	60°C	-	-	60°C
L48	4000LM	70°C	5°C - 35°C	-20°C - 35°C	60°C
	6000LM	70°C	5°C - 35°C	-20°C - 35°C	60°C
	8000LM	70°C	5°C - 35°C	-20°C - 35°C	60°C
	10000LM	70°C	5°C - 35°C	-20°C - 35°C	60°C
	12000LM	60°C	5°C - 35°C	-20°C - 35°C	60°C
	14000LM	60°C	5°C - 35°C	-20°C - 35°C	60°C
	15000LM	60°C	5°C - 35°C	-20°C - 35°C	60°C
	18000LM	60°C	-	-	50°C
	24000LM	40°C	-	-	40°C
	28000LM	40°C	-	-	40°C

*Minimum Ambient is -40°C unless noted

NUMBER OF BOARDS AND DRIVERS

Lumen package	fixture length	number of boards	number of drivers
2000LM	L24	1	1
3000LM		1	1
4000LM		1	1
5000LM		1	1
6000LM		1	1
7000LM		1	1
8000LM		1	1
9000LM		1	1
4000LM	L48	2	1
6000LM		2	1
8000LM		2	1
10000LM		2	1
12000LM		2	1
14000LM		2	1
15000LM		2	2
18000LM		2	2
24000LM		2	2
28000LM		2	2

LUMEN MAINTENANCE*

		Operating Hours 0	15,000	30,000	45,000	60,000	100,000
L24	2000LM	100.0%	96.7%	94.1%	91.5%	88.9%	82.6%
	3000LM	100.0%	96.7%	94.1%	91.5%	88.9%	82.6%
	4000LM	100.0%	96.7%	94.1%	91.5%	88.9%	82.6%
	5000LM	100.0%	96.7%	94.1%	91.5%	88.9%	82.6%
	6000LM	100.0%	96.7%	94.1%	91.5%	88.9%	82.6%
	7000LM	100.0%	96.7%	94.1%	91.5%	88.9%	82.6%
	8000LM	100.0%	96.4%	93.8%	91.2%	88.7%	82.3%
	9000LM	100.0%	96.4%	93.8%	91.2%	88.7%	82.3%
L48	4000LM	100.0%	96.7%	94.1%	91.5%	88.9%	82.6%
	6000LM	100.0%	96.7%	94.1%	91.5%	88.9%	82.6%
	8000LM	100.0%	96.7%	94.1%	91.5%	88.9%	82.6%
	10000LM	100.0%	96.7%	94.1%	91.5%	88.9%	82.6%
	12000LM	100.0%	96.7%	94.1%	91.5%	88.9%	82.6%
	14000LM	100.0%	96.7%	94.1%	91.5%	88.9%	82.6%
	15000LM	100.0%	96.7%	94.1%	91.5%	88.9%	82.6%
	18000LM	100.0%	96.4%	93.7%	91.2%	88.6%	82.3%
	24000LM	100.0%	96.4%	93.7%	91.2%	88.6%	82.3%
	28000LM	100.0%	95.4%	91.9%	88.5%	85.2%	77.1%

*Data projected for 25°C ambient

IMPACT RESISTANCE (IK RATINGS)

Component	Rating
Lens	
Poly (FPFL/FPCL)	IK 10
Clear Glass (FGCL)	IK 08
Frosted Glass (FGFL)	IK 05

Plot Date: 4/18/2022 9:48:07 AM Author

Banner Project C
Medical Center

SCOTTSDALE CAMPUS HOSPITAL

Hayden Rd & Loop 101 Frontage Rd
Scottsdale, Arizona 85255

SMITHGROUP

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City, State, Zip
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Consultant One
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City, State, Zip
Phone

ISSUED FOR	REV	DATE
ENTITLEMENT REVIEW		15APR22

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE

ELECTRICAL LIGHTING SPECIFICATION SHEETS

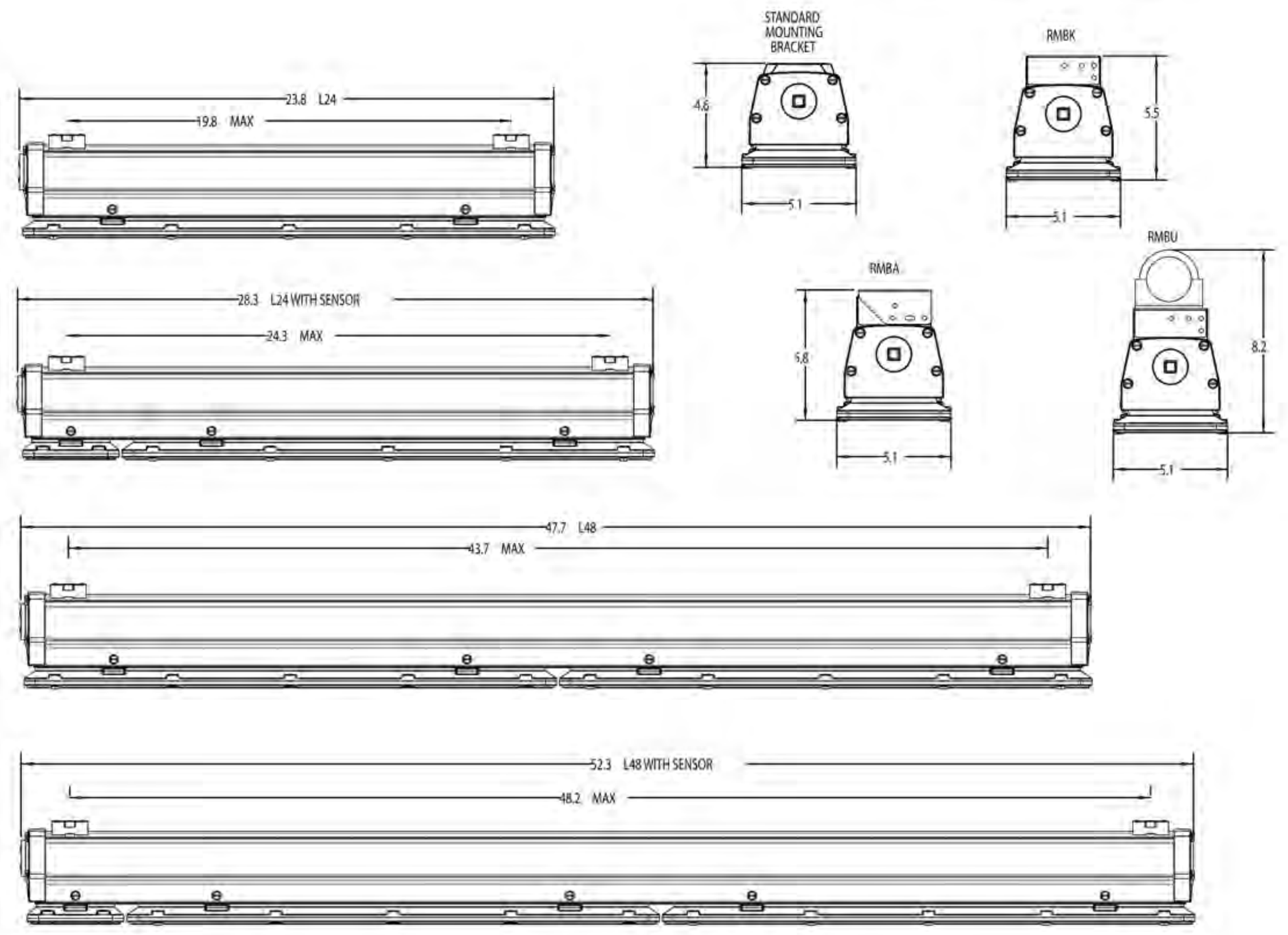
13178
PROJECT NUMBER

ENT_E6
SHEET NUMBER

5-ZN-2022
9/20/2022

FEX LED
Low-Profile Enclosed and Gasketed

DIMENSIONS
Specifications subject to change without notice.
All dimensions are inches unless otherwise indicated.



CONFIGURATION WEIGHTS

	Standard	w/ Sensor	w/ Battery
L24	10.9 lbs	11.5 lbs	12.4 lbs
L48	19.4 lbs	20.0 lbs	20.9 lbs

Weight may vary with options and accessories

FEX LED
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OPTIONS AND ACCESSORIES

Standard mount bracket

(ceiling, suspended) Included with the fixture unless one of the following 3 options are chosen.

RMBK Bracket

(ceiling, wall, suspended) 2' (L24) fixtures require 2 brackets and 4' (L48) fixtures require 3 brackets for 3G rating.

RMBA Bracket

(angled) Bracket can be set to 22.5°, 45° or 90° angles.

RMBU Bracket

(pole) 1 ½" Trade size Pipe mounting

CPSB16YWL Cordset

SBGR Sensor

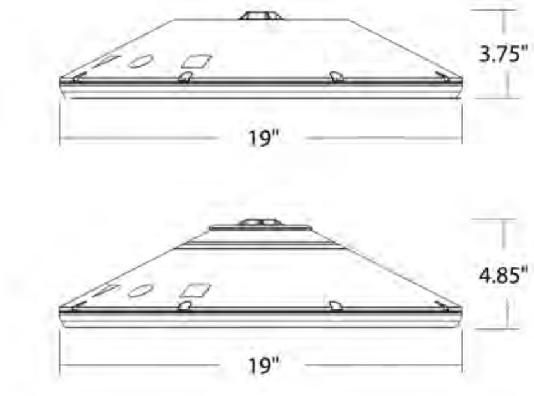
RIO Control Module

RSBG Sensor

VCPG LED
Parking Garage

Catalog Number
Notes
Type

Specifications
Diameter: 19"
Height: 3.75" (4.85" with Up-Light)
Weight (max, with no options): 18 lbs



Introduction
The all new VCPG LED (Visually Comfortable Parking Garage) luminaire is designed to bring glare control, optical performance and energy savings into one package. The recessed lens design of VCPG LED minimizes high angle glare, while its precision molded acrylic lens eliminates LED pixilation and delivers the required minimums, verticals and uniformity. The dedicated up-light module option reduces the contrast between the luminaire and the ceiling creating a more visually comfortable environment.

The VCPG LED delivers up to 87% in energy savings when replacing 175W metal halide luminaires. With over 100,000 hour life expectancy (12+ years of 24/7 continuous operation), the VCPG LED luminaire provides significant maintenance savings over traditional luminaires.

A+ Capable options indicated by this color background.

Ordering Information
EXAMPLE: VCPG LED V4 P4 40K 70CRI T5M MVOLT SRM DNAXD

VCPG LED

Series	LED Light Engines	Package	Color temperature	Color Rendering Index	Distribution	Voltage		Mounting
VCPG LED	V4[1] 4 Light Engines V8[1] 8 Light Engines	P1[1] P2[1] P3[1] P4[1] P5[1] P6[1] P7[1]	30K 3000 K 35K 3500 K 40K 4000 K 50K 5000 K	70CRI 80CRI	T5M Type V, medium T5R[2] Type V, rectangular T5W Type V, wide T5E Type V entry LANE[2] Drive lane	MVOLT 347 480	For ordering with fuse 120 208 240 277 347 480	**Shipped included** PM Pendant mount standard (24-inch length supply leads) SRM Surface mount (24-inch length supply leads) ARM Arm mount (use RSXWBA accessory to mount to a wall) **Shipped separately** YK Yoke/trunnion mount[3]

Options

Shipped installed
- UPL1 Up-Light: 500 lumens
- UPL2 Up-Light: 700 lumens
- E8WC Emergency battery backup, Certified in CA Title 20 MAEDBS (8W, -20°C min)[4,5,6]
- E10WH Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 5°C min)[4,5,6]
- HA High ambient (50°C, only P1-P4)
- SF Single fuse (120V, 277V, 347V)
- DF Double fuse (208V, 240V, 480V)
- SPD10KV 10KV Surge Pack
- LDS36 36in (3ft) lead length
- LDS72 72in (6ft) lead length
- LDS108 108in (9ft) lead length
- DMG External 0-10V leads (no controls)[7]

Shipped Separately
- WG Wire Guard
- BDS Bird Shroud[8]
- HS House Side Shield

Standalone Sensors/Controls[2]
- PIR Motion/ambient sensor for 8-15' mounting heights
- PIRH Motion/ambient sensor for 15-30' mounting heights
- PIR3FC3V Motion/ambient sensor for 8-15' mounting heights, pre programmed to 3fc and 35% light output
- PIRH3FC3V Motion/ambient sensor for 15-30' mounting heights, pre programmed to 3fc and 35% light output
- PIR3FC3V924 UL924 Listed motion/ambient sensor for emergency circuit for 8-15' mounting heights, pre programmed to 3fc and 35% light output[9]
- PIRH3FC3V924 UL924 Listed motion/ambient sensor for emergency circuit for 15-30' mounting heights, pre programmed to 3fc and 35% light output[9]

Networked Sensors/Controls[2]
- NLTAIR2 PIR nLIGHT AIR Wireless enabled motion/ambient sensor for 8-15' mounting heights
- NLTAIR2 PIRH nLIGHT AIR Wireless enabled motion/ambient sensor for 15'-30' mounting heights
- NLTAIR2 PIR924 nLIGHT AIR Wireless enabled, UL 924 Listed motion/ambient sensor for emergency circuits for 8-15' mounting heights[10]
- NLTAIR2 PIRH924 nLIGHT AIR Wireless enabled, UL 924 Listed motion/ambient sensor for emergency circuits for 15-30' mounting heights[10]

Finish
- DWHXD White
- DNAXD Natural aluminum
- DDBXD Dark bronze
- DBLXD Black

Ordering Information Cont.

Accessories
Ordered and shipped separately

VCPGBDS DWHXD U	Bird shroud for PM (specify finish)
VCPGBDS YK DWHXD U	Bird shroud for YK (specify finish)
VCPGUBDS DWHXD U	Bird shroud for PM with Up-Light (specify finish)
VCPGUBDS YK DWHXD U	Bird shroud for YK with Up-Light (specify finish)
VCPGSRM U	Surface mount kit, with no Up-Light
VCPGUSRM U	Surface mount kit, with Up-Light
VCPGWG U	Wire guard
SLVSQ	Quick mount pendant swivel kit, square
SLVRD	Quick mount pendant swivel kit, round
VCPG YK DWHXD U	Yoke mount kit (specify finish)
RSXWBA DWHXD U	RSX WBA wall bracket (specify finish)

NOTES
1. P1-P6 not available with V8. P7 not available with V4.
2. Not available with P7.
3. Only vertical height adjustment. No angle adjustment. Use PM and SLVSQ or SLVRD for mounting to angled ceiling or canopies.
4. Not available with 347V or 480V.
5. E8WC and E10WH only rated up to 35°C ambient.
6. E8WC & E10WH only available with P1-P4 packages.
7. DMG option not available with standalone or networked sensors/controls.
8. BDS not available with UPL1 or UPL2.
9. Power interruption delay >30 milliseconds required for operation. Refer sequence of operations on page 4 for more details.
10. Not available with P6 & P7. Power interruption delay >200 milliseconds required for operation. Refer sequence of operations on page 4 for more details.

Performance Data

Lumen Output Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	Watts	Distribution Type	30K (3000K, 70 CRI)		35K (3500K, 70 CRI)		40K (4000K, 70 CRI)		50K (5000K, 70 CRI)	
			Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW
P1	27W	T5E	3,581	135	3,670	138	3,815	144	3,876	146
		T5M	3,620	136	3,710	140	3,856	145	3,917	147
		T5W	3,592	135	3,681	139	3,827	144	3,888	146
		T5R	3,464	130	3,550	134	3,690	139	3,749	141
		LANE	3,507	132	3,594	135	3,736	141	3,796	143
P2	34W	T5E	4,577	135	4,691	138	4,876	144	4,954	146
		T5M	4,626	136	4,741	140	4,928	145	5,007	147
		T5W	4,591	135	4,705	139	4,891	144	4,968	146
		T5R	4,427	130	4,537	134	4,716	139	4,791	141
		LANE	4,482	132	4,594	135	4,775	141	4,851	143
P3	43W	T5E	5,808	134	5,952	137	6,187	143	6,286	145
		T5M	5,870	135	6,015	139	6,253	144	6,353	146
		T5W	5,825	134	5,970	138	6,205	143	6,304	145
		T5R	5,617	130	5,757	133	5,984	138	6,079	140
		LANE	5,688	131	5,829	134	6,059	140	6,155	142
P4	56W	T5E	7,391	131	7,575	135	7,874	140	7,999	142
		T5M	7,470	133	7,656	136	7,958	141	8,085	144
		T5W	7,414	132	7,597	135	7,898	140	8,023	143
		T5R	7,149	127	7,326	130	7,615	135	7,737	137
		LANE	7,238	129	7,418	132	7,711	137	7,834	139
P5	82W	T5E	10,189	124	10,442	127	10,854	132	11,027	134
		T5M	10,298	125	10,553	128	10,970	134	11,145	136
		T5W	10,220	124	10,473	128	10,887	133	11,060	135
		T5R	9,855	120	10,099	123	10,498	128	10,665	130
		LANE	9,978	121	10,226	124	10,629	129	10,799	131
P6	108W	T5E	12,878	120	13,197	123	13,719	127	13,937	129
		T5M	13,015	121	13,338	124	13,865	129	14,086	131
		T5W	12,917	120	13,237	123	13,760	128	13,979	130
		T5R	12,455	116	12,764	119	13,268	123	13,480	125
		LANE	12,611	117	12,924	120	13,435	125	13,649	127
P7	122W	T5E	15,503	125	15,887	128	16,515	133	16,778	135
		T5M	15,668	126	16,057	129	16,691	135	16,957	137
		T5W	15,549	125	15,935	129	16,564	134	16,828	136

Up-light Lumen Output

Up-light Option	Watts	Lumens
UPL1	6.5W	519
UPL2	6.5W	715

Lumen Multiplier for 80CRI

CCT	Multiplier
30K	0.926
35K	0.945
40K	0.967
50K	0.965

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1
30°C	86°F	0.99
40°C	104°F	0.98

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

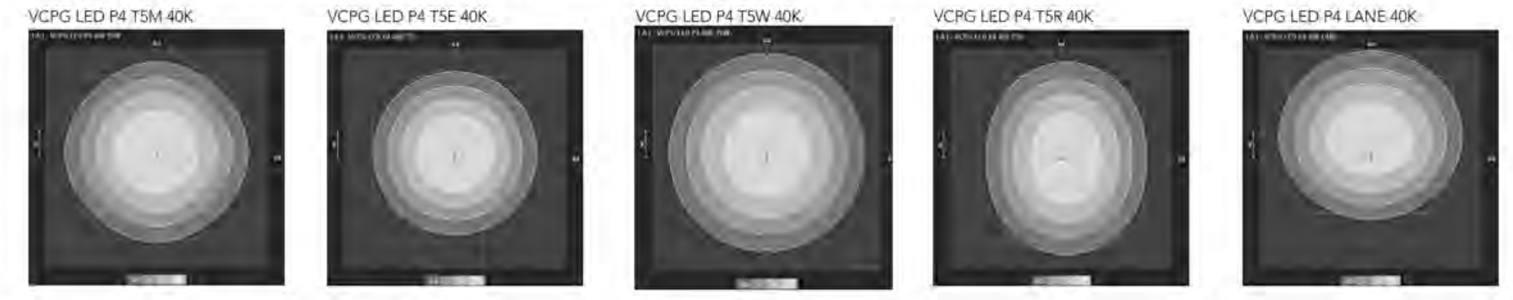
To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.97	0.94	0.89

Electrical Load

Power Package	System Watts	Current (A) 120V	208V	240V	277V	347V	480V
P1	27W	0.22	0.13	0.12	0.10	0.08	0.06
P2	34W	0.28	0.16	0.14	0.13	0.10	0.08
P3	43W	0.37	0.21	0.18	0.16	0.13	0.09
P4	56W	0.48	0.28	0.24	0.21	0.16	0.12
P5	82W	0.68	0.40	0.35	0.30	0.24	0.18
P6	108W	0.91	0.52	0.45	0.39	0.32	0.23
P7	124W	1.03	0.59	0.51	0.44	0.37	0.27

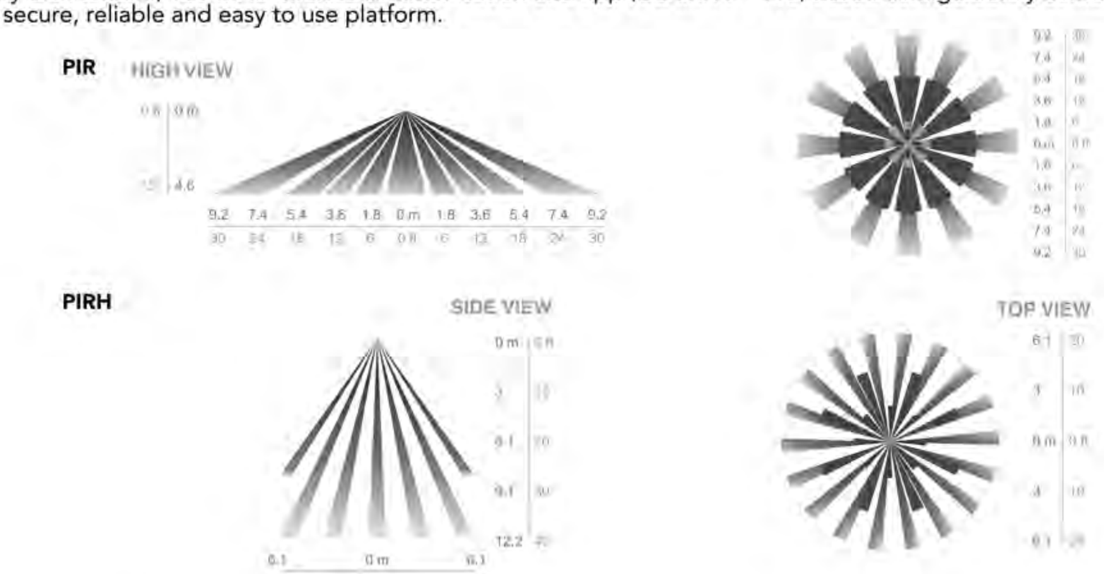
Photometric Diagrams
To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting VCPG LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards



Control/Sensor Options

Motion/Ambient Sensor (PIR_, PIRH)
Motion/Ambeint sensor (Sensor Switch MSOD) is integrated into the luminaire. The sensor provides both Motion and Daylight based dimming of the luminaire. For motion detection, the sensor utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size motion while preventing false tripping from the environment. The integrated photocell enables additional energy savings during daytime periods when there is sufficient daylight. Optimize sensor coverage by either selecting PIR or PIRH option. PIR option comes with a sensor lens that is optimized to provide maximum coverage for mounting heights between 8-15ft, while PIRH is optimized for 15-40ft mounting height.

Networked Control (NLTAIR2)
nLight® AIR is a wireless lighting controls platform that allows for seamless integration of both indoor and outdoor luminaires. Five-tier security architecture, 900 MHz wireless communication and app (CLAIRITY™ Pro) based configurability combined together make nLight® AIR a secure, reliable and easy to use platform.



Motion/Ambient Sensor Default Settings

Option	Dim Level	High Level (when triggered)	Photocell Operation	Motion Time Delay	Ramp-down Time	Ramp-up Time
PIR or PIRH	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
PIR3FC3V or PIRH3FC3V	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 3fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec

Sequence of Operations for UL924 Listed Controls/Sensors (PIR3FC3V924, PIRH3FC3V924, XAD924, NLTAIR2 PIR924, NLTAIR2 PIRH924)

The UL924 listed control/sensor ("device") is designed to provide full light output for 90 minutes following power loss ("Egress Mode"), ignoring both manual and automatic dimming/occupancy/daylight control signals during this time. The sequence of operations is as follows:
- Normal condition: device can dim and turn off the luminaire as normal, in response to automatic and manual control.
- Utility power fails, and luminaire loses power.
- Backup power source activates, transfer switch moves the emergency circuit powering the luminaire onto the backup source, and luminaire regains power.
- The device detects this power interruption, if it is >30ms (for PIR3FC3V924, PIRH3FC3V924, XAD924) or >200ms (for NLTAIR2 PIR924, NLTAIR2 PIRH924).
- The device ignores all dimming commands and controls the driver to full light output for 90 minutes.
- The device resumes normal dimming controls after 90 minutes.

These UL924 listed controls/sensors are not intended for use with Non-interruptible central emergency power systems. The power interruption, when transferring from normal utility power to emergency backup power, is required for the controller to activate its Egress Mode and provide full light output.

Mounting, Options & Accessories

PM – Pendant Mount (compatible with ¾ NPT, pendant stem provided by others)
D = 19"
H = 4.1"

SRM – Surface Mount
D = 19"
H = 4.1"

SRM – Surface Mount with Up-Light
D = 19"
H = 5.3"

YK – Yoke/Trunnion Mount
D = 19"
H (Yoke) = 10"-18"

ARM – Arm Mount
L = 28"
W = 19"
H = 8"

PIR & PIRH – Motion/Ambient sensor
D = 19"
H = 4.6" (no up-light) or 5.6" (with up-light)

BDS – Bird shroud for pendant mount
D = 19"
H = 8"

BDS – Bird shroud for yoke mount
D = 19"
H (Yoke) = 10"-18"

WG – Wire guard
D = 19"
H = 4.9" (no uplight) or 5.9" (with up-light)

HS – House side shield
D = 19"
H = 7.1" (no up-light) or 8.1" (with up-light)

FEATURES & SPECIFICATIONS

INTENDED USE
The visually comfortable optics, energy savings, and long life of the VCPG LED Parking Garage luminaire make it an ideal choice for new commercial installations and retrofit parking garage opportunities. It is designed to meet or exceed recommended illuminance criteria when installed as a direct replacement of most HID parking garage luminaires. Its modern dayform and aesthetics also make it appealing for indoor low-bay applications.

CONSTRUCTION
Two-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. The LED driver is separated from the heat generating light engines and mounted in direct contact with the casting to promote low operating temperatures, higher lumen maintenance and long life. The housing is completely sealed against moisture and environmental contaminants (IP66) and is suitable for hose-down application.

FINISH
Exterior painted parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling.

OPTICS
Light guide technology provides a diffused light source, reducing glare from direct view of the LEDs. The light source is recessed into the luminaire, further reducing the high angle glare from the luminaire. A combination of precision molded micro prismatic acrylic lenses and back reflectors provide five different photometric distributions tailored specifically to parking garage applications. Up-light option comes with a dedicated light engine and custom optic designed to efficiently spread light on to the ceiling, thus reducing the cave effect.

ELECTRICAL
Light engine consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L89/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%, and a minimum 6.0 KV surge rating. When ordering the SPD10KV option, a separate 10kV (5kA) surge protection device is installed within the luminaire which meets a minimum Category C low operation (per ANSI/IEEE C62.41.2). Luminaire is 0-10V dimmable down to 10% or lower.

INSTALLATION
Standard configuration accepts a rigid or free-swinging 3/4" NPT stem for pendant mounting. The surface mount option attaches to a 4x4" recessed or surface mount outlet box using a quick-mount kit (included); kit contains galvanized steel luminaire and outlet box plates and a full pad gasket. Kit has an integral mounting support that allows the luminaire to hinge down for easy electrical connections. Luminaire and plates are secured with set screws. Also, available with a yoke/trunnion mount option with 3/4" NPT provision for flexible conduit entry (conduit by others); height can be adjusted from 10-18". Supply leads are 24" in length as standard. Longer supply leads are available as additional options. Design can withstand up to a 3.0 G vibration load rating per ANSI C136.31.

LISTINGS
CSA certified to U.S. and Canadian standards. IP66 rated for outdoor applications. PIR options are rated for wet location. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at to confirm which versions are qualified.

BUY AMERICAN
This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FARS, DFARS and DOT. Please refer to for additional information.

WARRANTY
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at:

Note: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

Banner Project C
Medical Center

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Phone

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Address
City, State, Zip
Phone

ISSUED FOR	REV	DATE
ENTITLEMENT REVIEW		15APR22

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

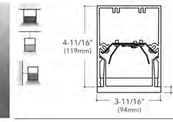
SHEET TITLE
ELECTRICAL LIGHTING SPECIFICATION SHEETS

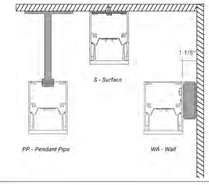
13178
PROJECT NUMBER

ENT_E7
SHEET NUMBER

5-ZN-2022
9/20/2022

Plot Date: 4/18/2022 9:48:07 AM Author





PINNACLE
ARCHITECTURAL LIGHTING

Project Name ______
Date ______ Type ______

EDGE EX3WET
3" Suspended Direct Linear WET

Key Features
- Approved for wet location unless otherwise noted. IP65 and IK10 rated
- 6063-T5 Extruded aluminum housing
- Highly reflective die-formed white painted reflector
- All-inclusive module houses all LED system components in one compact unit
- Unit easily releases from the housing for room-side maintenance
- Wiring access available through bottom of housing
- 5-year limited warranty covers LED, driver and fixture
- UL and cUL listed
- Buy American Act compliant

Example Part #: EX3-WET-N-830HO-8'-IND-AC48G1-U-OL2-1-0-W

EX3	-WET	-N	-	-	-	-	-	-	-	-	-
	DIRECT SHIELDING	INDIRECT SHIELDING	CRI, CCT & OUTPUT	LENGTH	POSITION	MOUNTING	VOLTAGE	DRIVER	CIRCUITING	BATTERY & EMERGENCY	FINISH	FIXTURE OPTIONS

WET	N	_ _ _ _ _ _	_ _ _ _
DIRECT SHIELDING	**INDIRECT SHIELDING**	**CRI, CCT & OUTPUT**[1]	**LENGTH**[2]
WET - Satine Wet Lens *Shielding pg. 2*	**N** - None *Shielding pg. 2*	**_27_ _** - 2700K **_30_ _** - 3000K **_35_ _** - 3500K **_40_ _** - 4000K **_50_ _** - 5000K **CL_ _ _ _ _ _** - Custom Lumens **CW_ _ _ _ _ _** - Custom Watts *Lumen Output pg. 2*	_ _ - Individual Fixture *Length pg. 2*

_ _ _	_ _ _ _ _ _	_	_ _ _
POSITION[3]	**MOUNTING**[4]	**VOLTAGE**	**DRIVER**
IND - Individual Fixture **BOR** - Beginning of Row **MOR** - Middle of Row **EOR** - End of Row *Position pg. 3*	**PP_ _JB** - Pendant to J Box **PP_ _ST** - Pendant to Structure **WA** - Wall Mount **S** - Surface Mount *Mounting pg. 3*	**U** - Universal *(120 thru 277V)* **1** - 120V **2** - 277V **3** - 347V *Voltage pg. 3*	**FSD** - Factory Select Driver *(1%, 0-10v)* **PL2** - Advance Xitanium *(1%, 0-10v)* **OL4** - Osram 347v *(1%, 0-10v)* **EE1** - eldoLED ECOdrive *(1%, 0-10v)* **ES1** - eldoLED SOLOdrive *(0%, 0-10v)* **LH1** - Lutron Hi-lume *(1%, EcoSystem)* **PS1** - Advance Xitanium *(50%/100%)* **OL2** - Osram *(1%, 0-10v)* *Driver pg. 3*

_	_ _ _	_ _	_ _ _ _	
CIRCUITING	**BATTERY & EMERGENCY**[5]	**FINISH**	**FIXTURE OPTIONS**[6]	**CONTROLS**
1 - Single Circuit **M** - Multi Circuit **E** - Emergency *(entire fixture)* **N** - Night Light *(entire fixture)* *Circuiting pg. 4*	**0** - None **_FSG** - Factory Select ALCR **_GI** - Iota ETS DR **_GB** - Bodine GTD **_P** - Bodine 10w Integral **_IC** - Iota 10w Integral (CES listed) **_E** - Emergency Section **_N** - Night Light Section **_L** - Life Safety Section *Battery and Emergency pg. 4*	**W** - White **S** - Metallic Silver **BL** - Textured Black **BR** - Bronze **GR** - Graphite **CC** - Custom Color *Finish pg. 4*	**GLR** - Internal Fast Blow Fuse **EPF** - End Power Feed **N** - Natatorium *(corrosion resistant hardware)* *Fixture Options pg. 5*	*Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.*

[1] When specifying OUTPUT the first _ is for specifying either 8 - 80CRI or 9 -90CRI. The ending _ _ are for specifying output, example HO - High Output. See output charts for more information. [2] Individual fixtures come in nominal 2', 3', 4', 5', 6', 7', & 8' lengths, see pg. 2 for actual lengths. [3] Specify position of fixture. Use IND for an individual fixture, use BOR, MOR, or EOR for building connected rows. [4] Specify pendant length of either 12", 18" or 24". Pendant options not available with Natatorium. [5] Enter quantity for Battery and Emergency, Example 2P. [6] Natatorium not available with pendant options.

Direct Shielding

WET
Satine Wet Lens

Indirect Shielding

N
None

Output
- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory
- 80 CRI = R9≥19 and 90 CRI = R9≥61

Custom Output- Lumens OR Wattage

CL_ _ _ _ _	Specify CRI, CCT and desired lumens (i.e. CL835500)	*Specify lumens between standard offering listed below. Lumens are specified per color temp*
CW_ _ _ _ _	Specify CRI, CCT and desired wattage (i.e. CW9407)	*Specify watts between standard offering listed below*

80 CRI

	Color	Output	Watts *per foot*	Shielding **WET** Satine Wet *Lumens/ft*	*LPW*
830	3000K	Standard	4.7	436	92.8
830HO	3000K	High	8.7	788	91.1
835	3500K	Standard	4.7	445	94.7
835HO	3500K	High	8.7	804	92.9
840	4000K	Standard	4.7	457	97.2
840HO	4000K	High	8.7	827	95.6
850	5000K	Standard	4.7	456	97.0
850HO	5000K	High	8.7	825	95.4

90 CRI

	Color	Output	Watts *per foot*	*Lumens/ft*	*LPW*
927	2700K	Standard	4.7	344	73.2
927HO	2700K	High	8.7	623	72.0
930	3000K	Standard	4.7	370	78.7
930HO	3000K	High	8.7	668	77.2
935	3500K	Standard	4.7	391	83.2
935HO	3500K	High	8.7	706	81.6
940	4000K	Standard	4.7	391	83.2
940HO	4000K	High	8.7	706	81.6

Length

2 Individual Fixture	**3** Individual Fixture	**4** Individual Fixture	**5** Individual Fixture	**6** Individual Fixture	**7** Individual Fixture	**8** Individual Fixture
27-1/8" (689mm)	39" (991mm)	50-3/4" (1289mm)	62-5/8" (1591mm)	74-5/8" (1895mm)	86-1/2" (2197mm)	98-3/8" (2499mm)

Position
- When making rows with EDGE Wet, the rows must be ordered as individual units with a position specified
- Positions can either be "BOR" - Beginning of Row, "MOR" - Middle of Row, or "EOR" - End of Row
- The connection between fixtures is less than 1/8"
- For single, non-connected units, specify as "IND" for individual

IND	**BOR**	**MOR**	**EOR**
Individual Fixture	Beginning of Row	Middle of Row	End of Row

Mounting
- 1/2" diameter rigid stem pendant and wall mount available
- Specify overall pendant length of 12", 18" or 24"
- Specify pendant length in ordering code (PP12JB)
- Utilize Surface Mount for in-wall application. Building surface waterproofing by others
- End trims and power cord attached at factory
- Canopies and pendants match fixture finish, see Finish section for additional details
- Approved for wet location unless otherwise noted
- Refer to installation instructions during installation at the jobsite
- Fixtures may only be installed with the direct lens facing down. For an in-wall application with the lens facing outward, please see the EDGE Wet Recessed Spec Sheet

PP_ _JB	Pendant Pipe to J-Box
PP_ _ST	Pendant Pipe to Structure
WA	Wall Mount
S	Surface

Voltage
- Some EDGE Wet configurations will not accommodate all voltage options; consult with factory

U	Universal
1	120 volt
2	277 volt
3	347 volt

Driver
- Standard Driver Option = PL2
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options see Pinnacle Resource Guide
- Some EDGE Wet configurations will not accommodate all driver options; consult with factory

0-10V Drivers	
FSD	Factory Select Driver 1%, 0-10v
PL2	Signify Advance Xitanium 1%, 0-10v
PL4	Advance Xitanium 347v 1%, 0-10v, requires 347v
OL2	Osram Optotronic, 1%, 0-10v
OL4	Osram Optotronic 347v, 1% 0-10v, requires 347v option
EE1	eldoLED ECOdrive 1%, 0-10v Logarithmic
EE2	eldoLED ECOdrive 1%, 0-10v Linear
ES1	eldoLED SOLOdrive 0-10v, 0% Logarithmic
ES2	eldoLED SOLOdrive 0-10v, 0% Linear
DALI Drivers	
EE3	eldoLED SOLOdrive .1%, DALI (logarithmic)
EE4	eldoLED SOLOdrive .1%, DALI (linear)
OD1	Osram Optotronic 1%, DEXAL
OD2	Osram Optotronic 1%, DALI 2 Channel
Lutron Drivers	
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
LH4	Lutron Hi-Lume 1%, 2-wire, Lutron-LTEA2W, 120v only
Alternate Drivers	
PS1	Signify Advance Xitanium Step Dimming 50%/100%
EH1	ELV 120v only, 0-10v universal
OD1	Osram Optotronic 1%, DEXAL

How to specify Circuiting, Battery and Emergency

①
- Select fixture circuiting from options below
- Some EDGE Wet configurations will not accommodate all circuiting options, consult with factory

Circuiting

1	Single Circuit
M	Multi Circuit
E	Emergency Circuit only
N	Night Light Circuit only

② + ③
- Battery and emergency section options are available in addition to fixture circuit
- Select battery and emergency section options below; factory shop drawing required
- Some EDGE Wet configurations will not accommodate all circuiting options, consult with factory

Battery and/or Emergency *If Required*

0	No battery or specific emergency section required

Battery
- Select battery section type if required, indicate total QTY. *Example 2P*
- 90 minute battery runtime; test button is integral to fixture
- No battery option available for 2' lengths
- Entire direct fixture housing is on battery for lengths up to 5'
- Half of direct fixture is on battery for 6', 7' or 8' housing lengths
- For more battery options available, see Pinnacle Resource Guide

0	No battery
_P	Bodine 10w Integral
_IC	Iota 10w Integral (CEC listed)

For Approximate Battery Lumen Output
- Multiply battery wattage X fixture LPW shown on Lumen Table
- 92.3 (LPW) x 10 (watts) = 923 battery lumen output

Battery OR Emergency Ordering Examples

- Single circuit, 10w Integral Battery	Ordering Code: 1-1P
- Emergency only, 10w Integral Battery	Ordering Code: E-1P
- Single circuit, GTD required	Ordering Code: 1-1G

Emergency
- Select emergency section type if required, indicate total QTY. *Example 1E*
- Combine battery and emergency section ordering codes if both options
- are selected

_FSG	Factory Select ALCR, Automatic Load Control Relay
_GI	Iota ETS DR, Emergency Lighting Control Device
_GB	Bodine GTD, Emergency Lighting Control Device
_E	Emergency circuit section
_N	Night Light circuit section
_L	Life Safety circuit section NO THROUGH WIRE

Combination Section Ordering Examples

- Single circuit, (1) 10w battery, (1) emergency section	Ordering Code: 1-1P1E
- Multi circuit: (2) 10w battery, (2) emergency sections	Ordering Code: M-2P2E
- Single circuit, (1) night light section	Ordering Code: 1-1N

Finish
- Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes
- Selecting a fixture finish other than white may impact lumen output; consult factory for more information

W	White *(white pendant & canopy)*
S	Metallic Silver *(silver pendant & canopy)*
BL	Textured Black *(black pendant & canopy)*
BR	Bronze *(bronze pendant & canopy)*
GR	Graphite *(graphite pendant & canopy)*
CC	Custom Color *(color match pendant & canopy)*

Fixture Options
- Additional options to enhance the fixture and finish of the product

GLR	Internal Fast Blow Fuse
EPF	End Power Feed
N	Natatorium (corrosion resistant hardware)

Controls
- Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

Photometrics

Satine Wet Lens

Test #	Scaled from ITL86500
Catalog #	EX3-WET-N-840HO-4
Lumens	3307
Watts	34.6
Efficacy	95 LPW

Candela Distribution

Vert Angle	Horizontal Angle 0	22.5	45	67.5	90
0	1377	1377	1377	1377	1377
5	1367	1367	1367	1366	1363
10	1341	1337	1333	1328	1325
15	1298	1285	1279	1270	1260
20	1236	1215	1206	1190	1177
25	1156	1131	1118	1095	1080
30	1062	1039	1019	989	974
35	961	939	915	882	870
40	855	836	809	775	763
45	747	730	705	672	657
50	635	626	603	573	562
55	531	526	505	480	473
60	432	430	415	394	388
65	337	339	329	316	312
70	252	255	252	247	243
75	171	178	183	183	182
80	102	112	123	127	129
85	46	60	75	84	87
90	3	19	37	49	53

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8673	7738	7081
55	7587	6670	6078
65	6512	5659	5157
75	5329	4711	4405
85	4082	4074	4177

For all available IES files, please visit our website at pinnacle-ltg.com. Photometry testing in accordance to IESNA-LM-79-08 at an NVLAP accredited testing laboratory. Testing conducted at 25°C ambient conditions

Applications & Certificates

Construction 6063-T5 extruded aluminum housing with welded ends. Internal lens gaskets seal housing to prevent moisture and debris from entering the fixture. Pressure equalizing vent allows fixture to "breathe" preventing condensation.

Shielding Solid acrylic diffuse snap-in lens with matte finish with an EPDM gasketed for complete wet seal.

Mounting Fixtures can be installed individually or connected for a continuous run appearance. IND fixtures are individual fixtures and have no joining holes. IND fixtures cannot be joined. BOR fixtures are used for beginning of row and have joining holes on non-power end of fixture. MOR fixtures are used for middle of row and have joining holes on both ends of fixture. EOR fixtures are used for the end of a row and have no joining holes on power end of fixture. Consult factory for detailed installation instructions.

LED 25°C test environment. Lumen output/wattage has a margin of +/- 5%; 2' or 3' lengths may have a greater wattage deviation. All luminaire configurations tested in accordance with IES LM-79. Diodes tested in accordance with IES LM-80. Lifetime calculated using IES TM-21. Minimum lifetime greater than 60,000 hours. Lifetime Projection L70 = 136,200 hours and L90 = 41,100 hours. MacAdam 3-Step Ellipses. Not all products are Lighting Facts listed. For all available IES files, please visit our website at pinnacle-ltg.com.

CRI, CCT & Lumen Output Two lumen packages available. Standard and High (HO). Custom outputs are available. Specify custom lumens or watts between standard offering listed on CRI, CCT & Output page. 80 CRI is available for 3000K, 3500K, and 4000K. 90 CRI is available for 2700K, 3000K, 3500K, and 4000K. 80 CRI = R9≥19 and 90 CRI = R9≥61.

Voltage Universal (U), 120 volt (1), 277 volt (2) and 347 volt (3) options available. Must specify OL4 in Driver section when 347 volt (3) is selected. Some EDGE Wet configurations will not accommodate all voltage options; consult with factory.

Driver Standard Driver Option is Advance Xitanium 0-10V, 1% = PL2. Electronic driver, Power factor is >0.9 with a THD <20%. Driver Lifetime: 50,000 hours at 25°C ambient operating conditions. Ambient operating range: -20°F/-30°C to 122°F/55°C. For more driver options, see Pinnacle Resource Guide. Some EDGE Wet configurations will not accommodate all driver options.

Circuiting Select from single circuit (1), Multi circuit - For multiple circuiting and zone control, requires factory shop drawing (M), Emergency circuit (E) or Night Light circuit (N). For emergency circuiting situations that require no through wire or circuit separation, Life Safety Circuit should be selected. This will provide a separate power feed and only the Life Safety Circuit in that section. Some EDGE Wet configurations will not accommodate all circuiting options; consult with factory.

Battery & Emergency Select battery or emergency options if required. If battery or emergency option is not required, enter 0. Battery duration is 90 minutes as standard. Test button is integral to fixture. For more Battery options, see Pinnacle Resource Guide.

Finish Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes or for additional custom color and finish options.

Controls Consult Factory

Labels UL and cUL Listed, approved for wet location unless otherwise noted. IP65 and IK10 rated.

Buy American Act Compliant

Warranty EDGE Wet LED offered with a 5-year limited warranty. Covers LED, driver and fixture.

Banner Project C
Medical Center

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DISCIPLINE ONE
Address
City, State, Zip
Phone

ISSUED FOR	REV	DATE
ENTITLEMENT REVIEW		15APR22

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE
ELECTRICAL LIGHTING SPECIFICATION SHEETS

PROJECT NUMBER 13178

SHEET NUMBER **ENT_E8**

Plot Date: 4/18/2022 9:48:08 AM Author

5-ZN-2022
9/20/2022

Exhibit O:

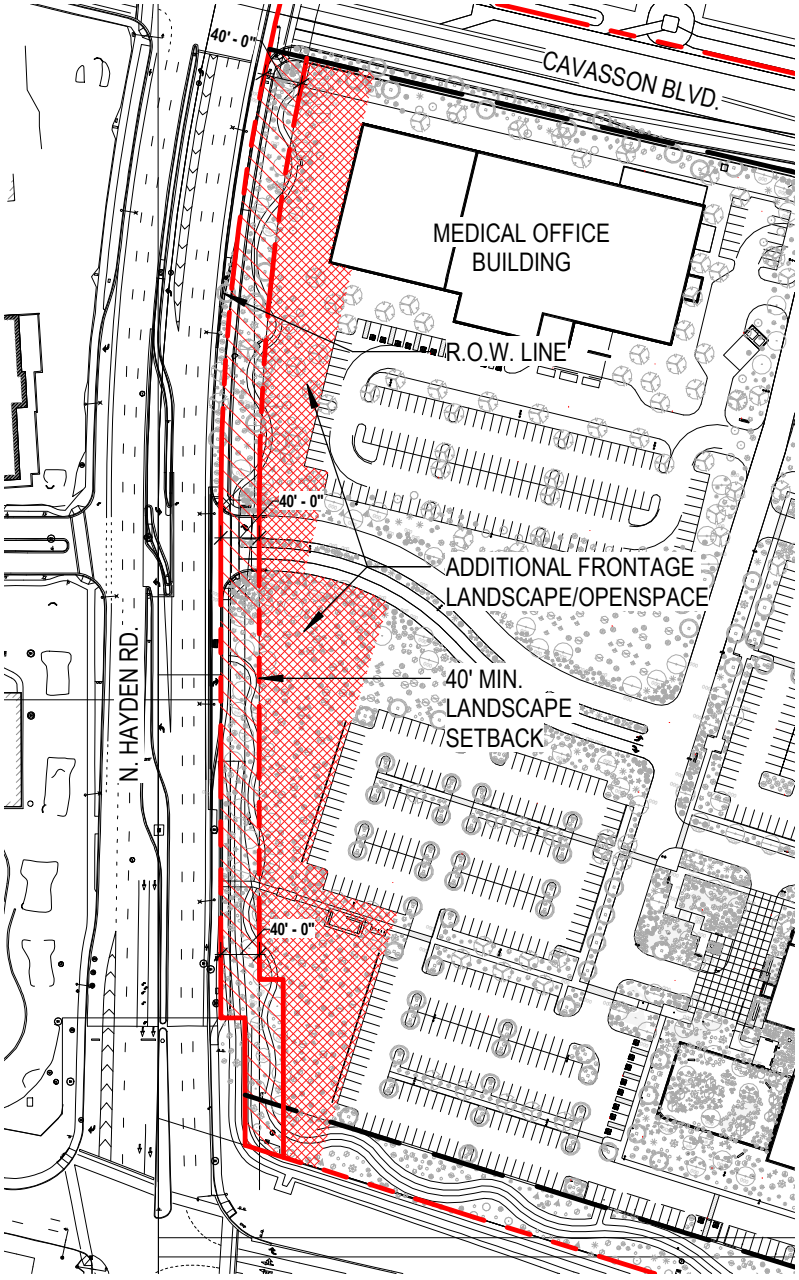
Buffered Roadway Exhibit

SMITHGROUP

NARRATIVE EXHIBIT

ENTITLEMENT REVIEW	BUFFERED ROADWAY EXHIBIT
ISSUED WITH	SKETCH TITLE
ENT_AS1	BANNER PROJECT C MEDICAL CENTER
SHEET REFERENCE	PROJECT NAME
1" = 200'-0"	13178.000
SCALE	PROJECT NUMBER DATE

SITE PLAN - BUFFERED ROADWAY EXHIBIT



BUFFERED ROADWAY DESIGN APPROACH

The Banner Health Medical Campus will adhere to the guidelines of the Signature Cooridors. The Campus will present a natural desert edge with a generous landscape setback that exceeds the 30' minimum and 40' average requirement along Hayden Road. The proposed design within the landscape boundary along Hayden Road includes regional desert plantings(both salvaged and new), bioswales, a retention basin, and a wellness trail.

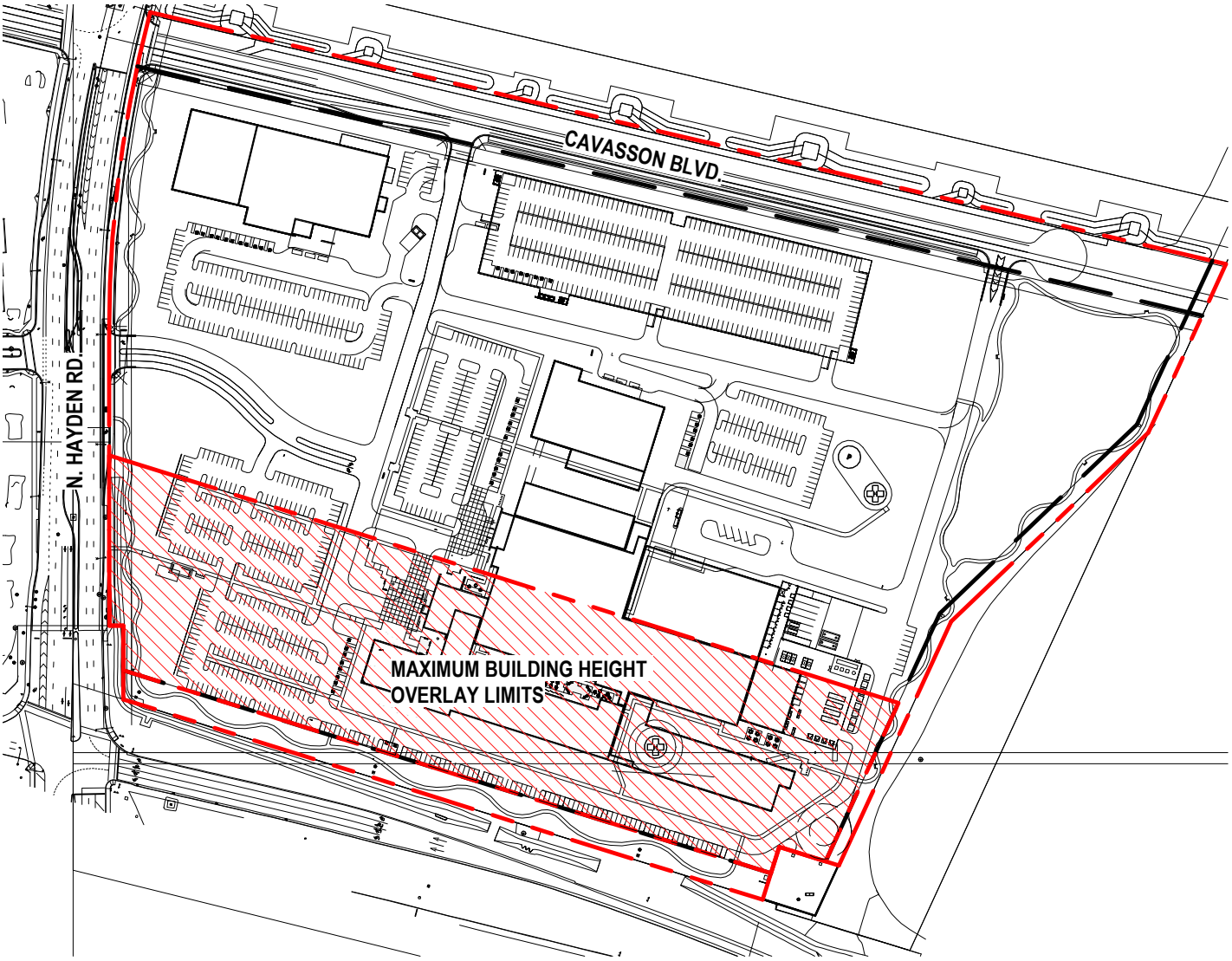
Exhibit P:

Maximum Building Height Exhibit

SMITHGROUP

NARRATIVE EXHIBIT

ENTITLEMENT REVIEW ISSUED WITH	MAXIMUM BUILDING HEIGHT EXHIBIT SKETCH TITLE
ENT_AS2 SHEET REFERENCE	BANNER PROJECT C MEDICAL CENTER PROJECT NAME
1" = 300'-0" SCALE	13178.000 PROJECT NUMBER DATE



MAXIMUM BUILDING HEIGHT OVERLAY LIMITS

The Banner Health Medical Campus has proposed building heights that exceed 75'-0" for a maximum height of 94'-0" only for structures that carry the designation of PATIENT TOWER. Those structures will exist along the freeway frontage, and will not extend north of the entry drive off of Hayden Road.

1 SITE PLAN - BUILDING HEIGHT EXHIBIT

SCALE: 1" = 300'-0"

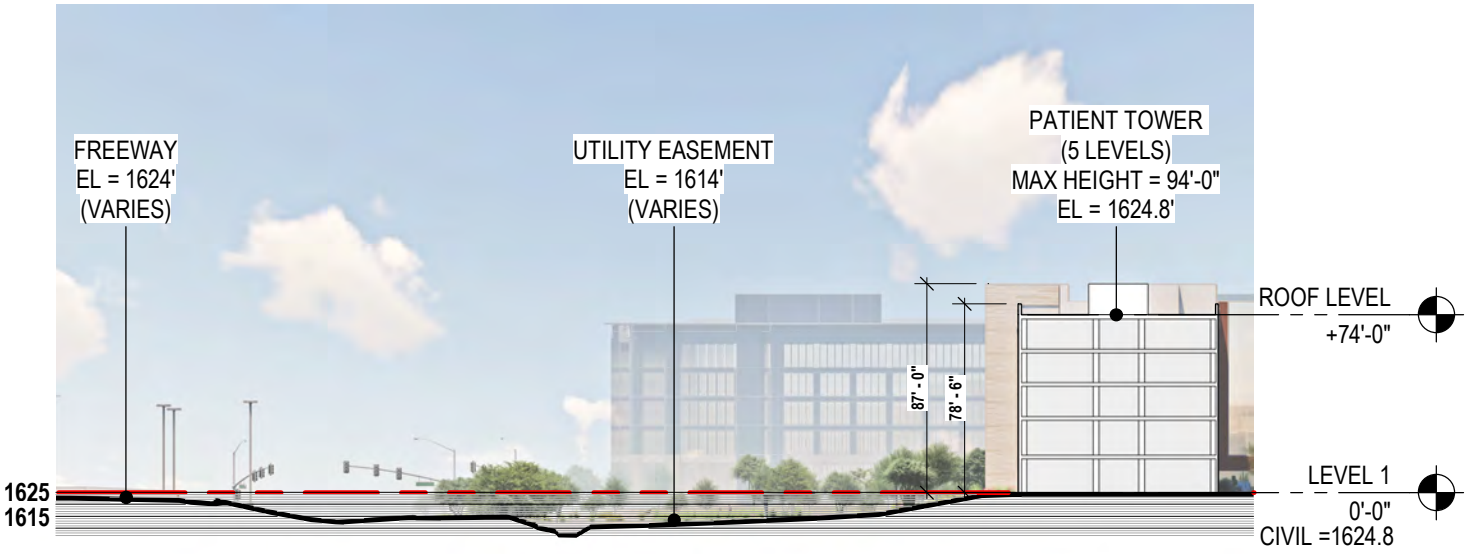
Exhibit Q:

Site Section Height Exhibit

SMITHGROUP

NARRATIVE EXHIBIT

ENTITLEMENT REVIEW	MAXIMUM BUILDING HEIGHT EXHIBIT
ISSUED WITH	SKETCH TITLE
ENT_AS3	BANNER PROJECT C MEDICAL CENTER
SHEET REFERENCE	PROJECT NAME
1" = 80'-0"	13178.000
SCALE	PROJECT NUMBER DATE



BUILDING HEIGHT SITE SECTION EXHIBIT

The Banner Health Medical Center Campus has proposed building heights that exceed 75'-0" for a maximum height of 94'-0" only for structures that carry the designation of PATIENT TOWER. Those structures will exist along the freeway frontage, and will not extend north of the entry drive off of Hayden Road. The finish floor of the Patient Tower and hospital generally align with the elevation of the adjacent freeway as depicted by this site section cut through the middle of the site. Refer to more detailed site sections as included with the drawing set.

1 BUILDING HEIGHT SECTION EXHIBIT

SCALE: 1" = 80'-0"