



WAKE COUNTY PUBLIC HEALTH BUILDING

Programming and Advanced Planning Document

11.13.2020

VOLUME 1



VOLUME 1

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1 EXECUTIVE SUMMARY

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INTRODUCTION

The Wake County Human Services department consists of programs and services that include social services, public health, job search assistance, child support, housing, and transportation. The department mission, with assistance from community partners, is to facilitate full access to high quality and effective health and human services for Wake County residents.

Wake County population is projected to continue to grow and thus the service delivery and facilities where services are rendered must adjust accordingly, taking full advantage of developing technologies and adjusting to changing policies. Anticipating striking projected population increase in the future years, it is imperative that the Wake County Human Services Department understand the increasing service demands to plan for efficient and effective service delivery models and space to accommodate additional staff.

In response to this growth, Wake County commissioned a Master Plan be developed which was completed in December 2017 and approved by the Wake County Board of Commissioners. The Master Plan identifies current and projected service delivery and facility needs for the next twenty (20) years. The plan first considered service delivery and then used this to inform and provide a roadmap to shape the built environment in ways that best support the Human Services department mission including human capital development. Examining and documenting the Human Services processes in all of their operational units to maintain and/or become more efficient, informed the stakeholders of the best use of existing facilities and possibly, expansion into new facilities. Operating procedures, space relationships, adjacencies, communication relationships and

expandability also are considered.

The plan identified opportunities to renovate, expand, and build new facilities in ways that will support a new service delivery method and new workplace space standards. Building new facilities requires proper planning and large capital expenses. The Master Plan identified two reasons building new makes sense. One is to reach clients in future growth areas and the other is to cycle out of existing owned facilities that have high life cycle costs.

The current Public Health Building located at 10 Sunnybrook Road, has been a mainstay for Wake County Public Health since the late 1980's. The facility has served the community well but due to population growth, changes in how service is delivered, and inflexibility of the building design, continuing to provide a high level of service is proving difficult. The project team identified an opportunity to exit the existing Public Health building as it sits in a highly desirable real estate corridor. In addition, the County owns sizeable property adjacent to the existing Swinburne Social Services building, sufficient to build a new building.

Creating a flagship Human Service Campus with both the existing Swinburne bldg. and a New Public Health building meets all the Guiding Principles identified in the Master Plan. The new facility will be designed to support new Service Delivery and be flexible enough to adapt to future service delivery changes. The proposed location of the new building allows clients to meet their needs for both Public Health and Social Services. Operating costs for a new building will also be significantly lower than trying to maintain the 10 Sunnybrook Building.



PROJECT GOALS AND VISION

The project goals below were generated from the Wake County Human Services Master Plan and project team. These goals and visions will be carried forward by the owner and design team as the project moves ahead and employed as a check at the conclusion of each phase of the design process. They will be considered again as a measure of success at each phase and at the conclusion of the project.

Project Goals

- Reviews the overall Public Health program, the services, and processes, based on best practices and future needs of the population to Insure optimal client experience
- Develop solutions to optimize client experience, efficiency, and productivity of our staff
- Supports a healthier and better Wake County
- To provide the required facilities within the County's approved construction and service delivery budget
- To deliver the new building within the agreed schedule for design and construction

Service Delivery Vision

- Support quality customer service with appropriate facility design
- Treat the whole client by grouping services together
- Improve accessibility to promote client self-sufficiency
- Limit need for client circulation through facility
- Develop flexible spaces to accommodate future changes
- Provide safe and secure employee work environment
- Leverage technology

Building Vision

- Dignified appearance
- Welcoming and inviting
- Natural light-filled and healthy environment
- Clear orientation and circulation
- Effective and efficient sustainability



PROJECT OVERVIEW

In 2018 and based on the Wake County Human Services Master Plan, Wake County initiated an effort to produce a more detailed building program and advanced planning study specifically for the Wake County Public Health Building. O'Brien/Atkins, LS3P, Guidian Healthcare and the design team consultants were selected as the architectural design team for this project. The design team has completed the detailed programming of the Public Health Building which is captured in the following pages of this document. This programming document describes the specific needs for the Public Health Building in a more detailed fashion and provides necessary documentation to proceed into the schematic design phase.

This programming process involved the following five phases: 1) Operational Assessment, 2) Process Evaluation, 3) Programming, 4) Advanced Planning and 5) Report Documentation.

The Operating Assessment involved developing an Operating Framework for the Wake County Human Services Public Health department focused on the health clinics nine service lines and ancillary Social Services programs that compliment these. This framework was built upon the Master Plan guiding principles and resulted in the Wake County Human Services Health Clinics Operational Model document. A summary of this document is included in Volume 2 of this programming document.

The Operational Model document assesses and provides staffing models and flow diagrams for the following nine service lines including:

1. Child Health Services
2. Women's Health
3. Adult Medical Services
4. TB Services

5. Immunization, Foreign Travel & Refugee Health Services
6. Dental Services
7. WIC Services
8. Pharmacy
9. Lab

The building program effort of these nine service lines are based upon the Wake County Human Services Health Clinics Operational Model document. The purposes of the detailed programming document for the Public Health Building are to:

1. Establish and document the project goals and vision
2. Provide a more in-depth analysis of the site
3. Document the proposed building systems to be incorporated in the project
4. Establish the sustainable design goals for the project
5. Describe in more detail the requirements for each of the spaces to be included in the project through the room data sheets/diagrams
6. Provide a preliminary code analysis for the project
7. Provide a more detailed project schedule and confirm the project is on schedule
8. Provide a more detailed project budget and confirm the project is within the budget

This detailed programming document is based on input from numerous individuals, many different project steering committee members, and the user groups. The design team met with and interviewed each of the various participants multiple times to understand their specific space needs, critical adjacencies within each department (or division as applicable), and adjacencies between each of the departments. These user groups and committee members were represented primarily by the following:

PROJECT OVERVIEW - CONTINUED

- Wake County Human Services Department
Public Health & Social Services
- Wake County General Services Administration
Physical Plant
Field Services
Safety & Security
- Wake County Facilities Design & Construction
- Wake County Budget Department

During the course of the user group meetings the design team generated detailed room data sheets for each of the spaces needs in each department or use group. The room data sheets also described the finishes and special requirements for each of the spaces or rooms. The design team will utilize the information contained within the room data sheets through-out the course of the design and especially for use in laying out the floor plans as the project moves thru the schematic design phase.

Based on the detailed programming process the Wake County Public Health Building will provide approximately 106,800 gross square feet which will include approximately 10,000 square feet of shell space. Preliminary design concept discussions suggest that the Wake County Public Health Building may be on the order of 2-3 stories high. The current program is anticipated to provide two to three levels of parking (approximately 300 parking spaces). The number of parking deck spaces will ultimately be dependent on the budget.

The civil, structure, transportation, parking, mechanical/plumbing and electrical systems for the building are described in more detail in the following pages of this document.



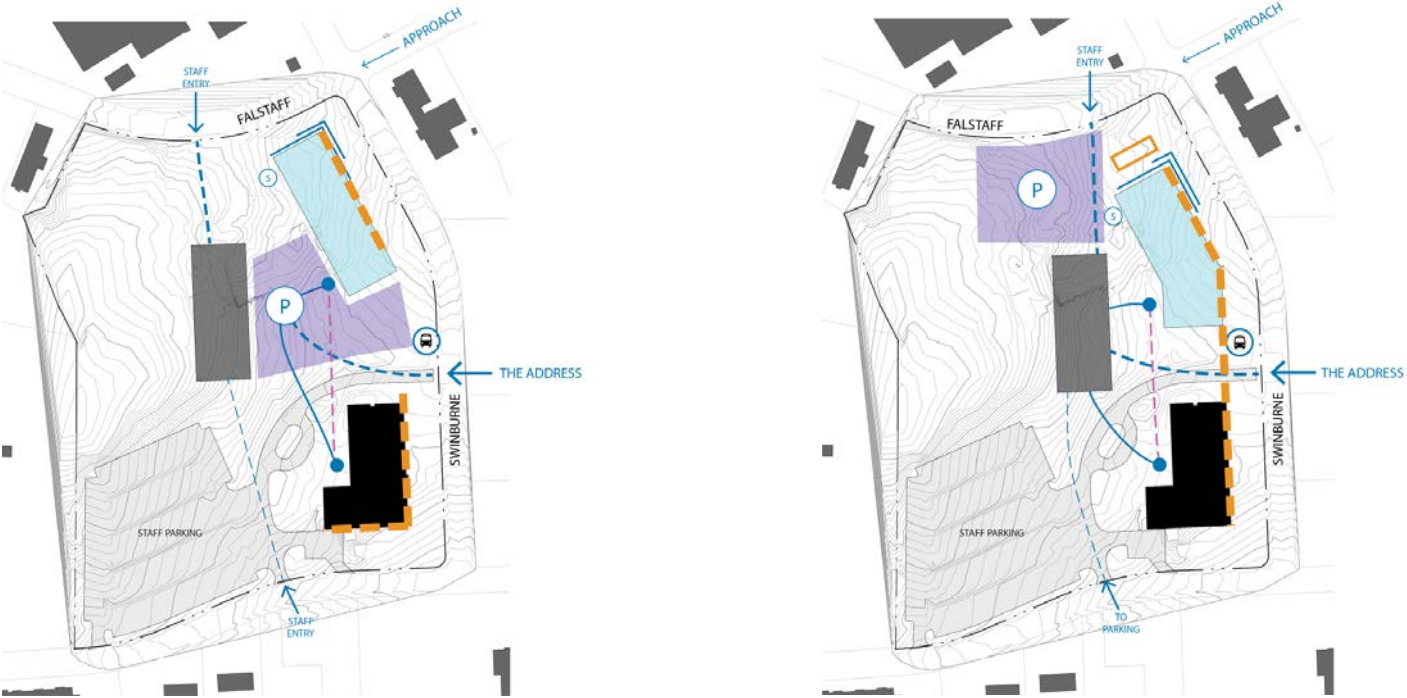
SITE CONTEXT

The site is located at Swinburne Street and Falstaff Rd and Kidd Road in Raleigh NC. The site is 19.07 Acres. The site is developed and is the location of the Wake County Mental health and ATC facilities and the Wake County Swinburne Building. The buildings have large areas of asphalt parking lots around and near them. The vegetation remaining on the site is mature, trees are primarily mixed hardwoods and native loblolly pine.

The site is zoned OX-5-PL and has a maximum height limitation of 75' or 5 stories. The site's density is controlled by two primary factors 1) maximum building coverage of 15% of the total property acreage, and 2) maximum impervious coverage is 70% of the total site acreage. The site also has a requirement to preserve 10% of the existing trees on the site and a 10% open space requirement.

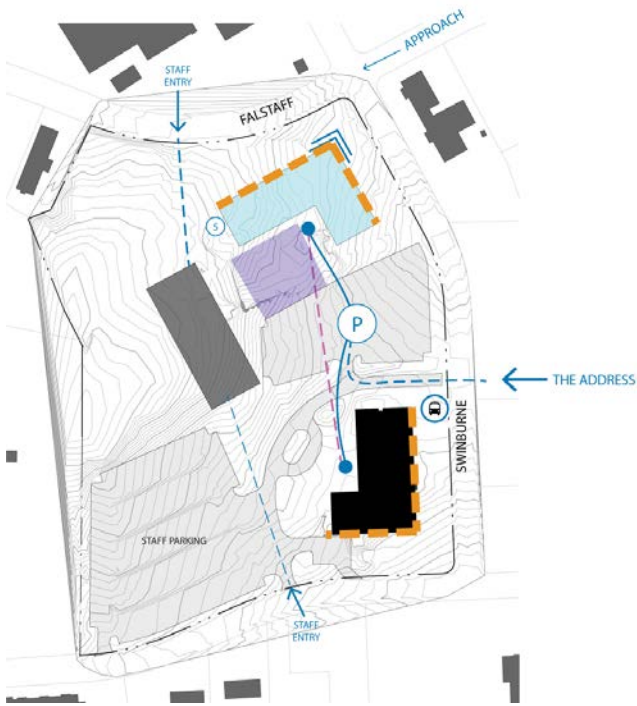
SITE SCHEMES

The site planning schemes shown on the next page are examples of some configurations of the building and how it may be located on the site. These schemes, including the existing conditions and pros/cons of each scheme, are discussed in more detail in the following sections.



Scheme A

Scheme B

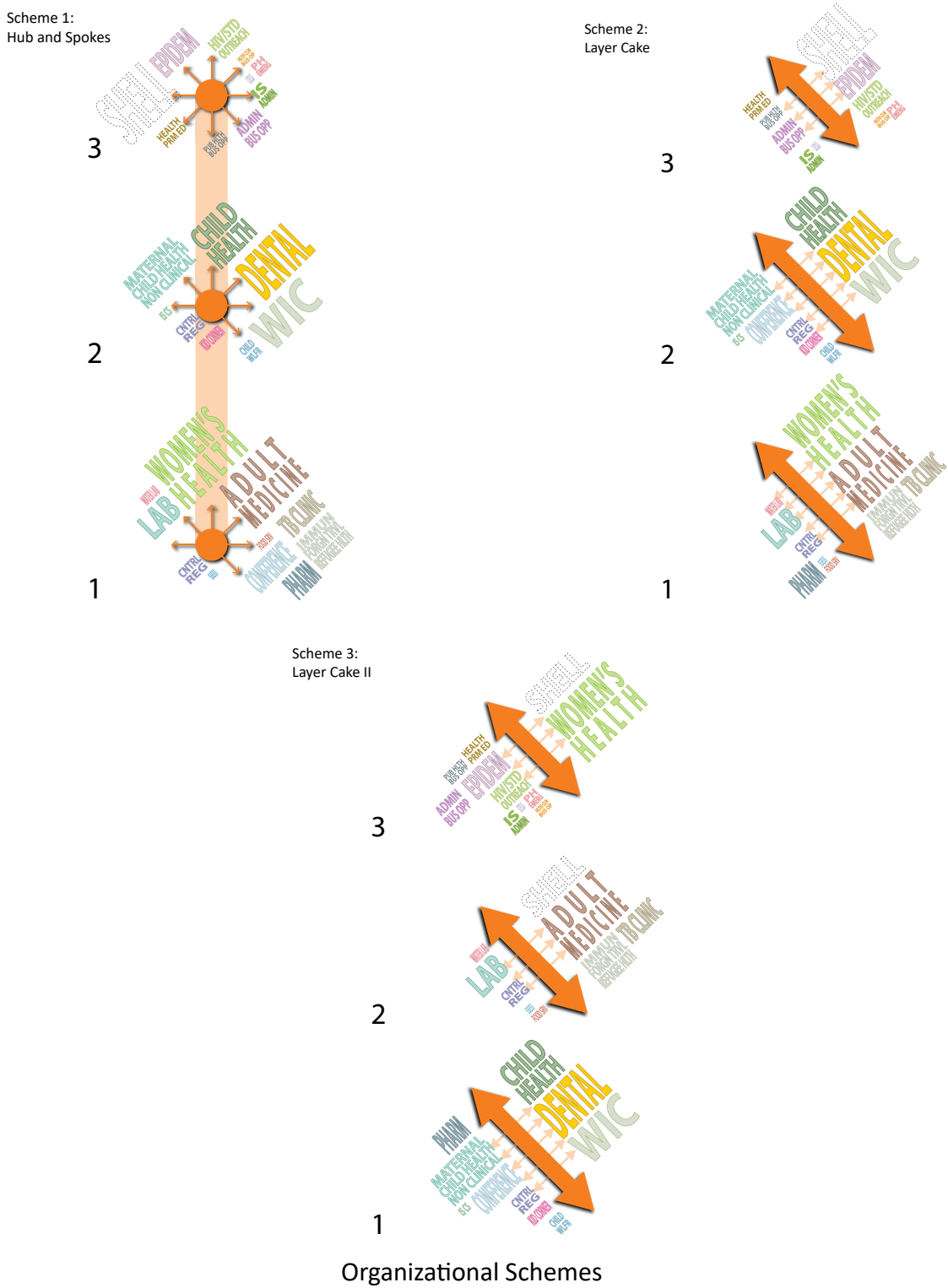


Scheme C

Site Schemes

ORGANIZATIONAL SCHEMES

Three concept schemes have been developed to propose the spatial adjacency and vertical stacking of the future Wake County Public Health Building. Each scheme is unique and can accommodate a variety of architectural massing. Nevertheless, each is designed to fit the constraints of the site and allowable area while supporting the Operational Framework and Patient-Centered Integrated Care. These schemes, shown on page 14, are discussed in more detail in the the following sections.

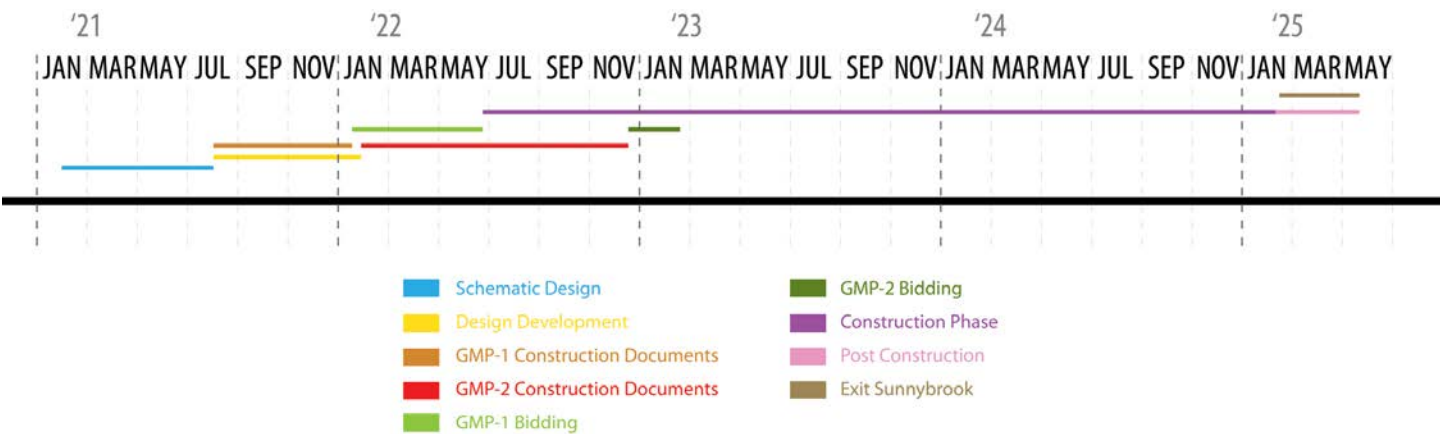


PROJECT SCHEDULE

The schedule below represents the major activities to meet the occupancy date of Spring 2025 for the proposed Public Health Building with the beginning of schematic design phase scheduled to start January of 2021.

PROJECT BUDGET

The current project budget is \$78,000,000. The estimated cost of construction for the building and site is \$60,000,000. A more detailed statement of probable cost is provided in the Project Budget section of this program document.



Project Schedule

AFFORDABLE HOUSING

Affordable housing has been and remains a goal of Wake County. In addition to accommodating the Public Health Building’s needs, this site was also evaluated for the possibility of supporting an affordable housing opportunity as well. Unfortunately, the programmatic demands for the Public Health Building along with the sites regulatory requirements leave too small an area to effectively construct an affordable housing project. Please refer to Volume 2 for further information.

CONCLUSION

This detailed programming document will culminate the programming and advanced planning phase of the project. Upon review and approval of the programming document by Wake County leadership, the team will move forward into the Schematic Design Phase of the project. The project team will generate multiple site and floor plan options as well as studies of the exterior design and overall exterior aesthetics of the building. At various times throughout the schematic design phase, input will be solicited on an as needed basis from identified county leadership and department subject matter experts. This schematic design phase will also incorporate cost estimate(s) based on the project design. The process of selecting a Construction Manager at Risk (CMAR) is underway. The CMAR will then be engaged to work with the Designers and County staff to further assure the goals and objectives of the Public Health Building project are successfully achieved. The Schematic Design Phase will culminate with a presentation to the Wake County Board of Commissioners requesting their endorsement and approval prior to moving forward with further design.

2 SITE SCHEMES

SITE SCHEMES

SITE CONCEPTS

The site is located at the transition between a large medical complex, home to multiple health care providers and a residential community. Other than the WakeMed complex, the majority of the buildings are relatively small, one or two stories, with surface parking and wooded buffers.

Access to the site will be from Falstaff Road, Swinburne Street, and Kidd Road. Each are 2-lane streets with street parking, and low traffic volumes. Most users will travel via New Bern Avenue to Sunnybrook Road.

To promote a sense of campus with the existing Swinburne Building the address for the new facility will also be from Swinburne Avenue.

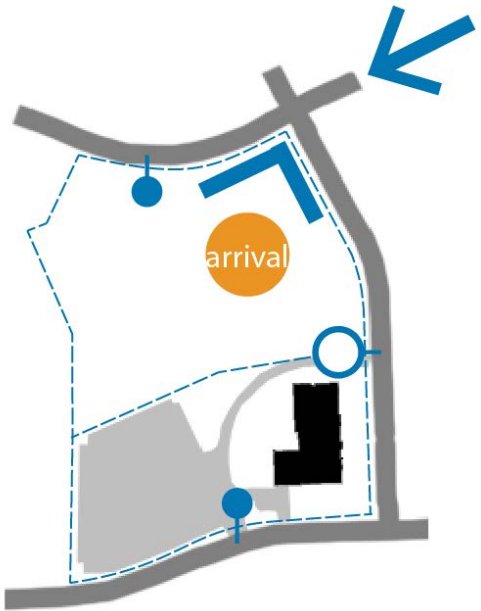
The following items to developing the site concepts were identified:

- **Community Presence**
- **Arrival**
- **Campus**



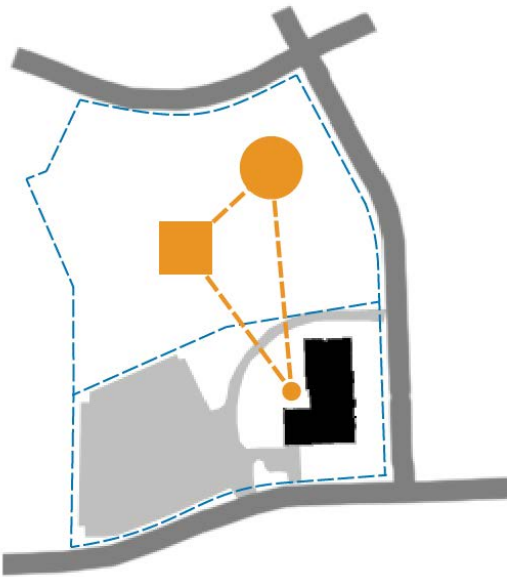
COMMUNITY PRESENCE

Relating to the **NEIGHBORHOOD**. Buildings consistent with the **COMMUNITY SCALE**. An **ACCESSIBLE** location. Appropriately responding to the **TOPOGRAPHY**.



ARRIVAL

The **ADDRESS**. Visible on the **APPROACH**. Accommodating **VEHICULAR, PEDESTRIAN**, and **PUBLIC TRANSIT** arrivals. Defining the **ENTRY**.



CAMPUS

CONNECTION to the existing facility. Services at a **SINGLE DESTINATION**. A **WALKABLE** site. **SHARED** site services. **CENTRALIZED PARKING** for visitors. Clear **WAYFINDING**.

SITE ASSUMPTIONS

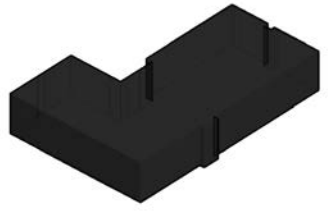
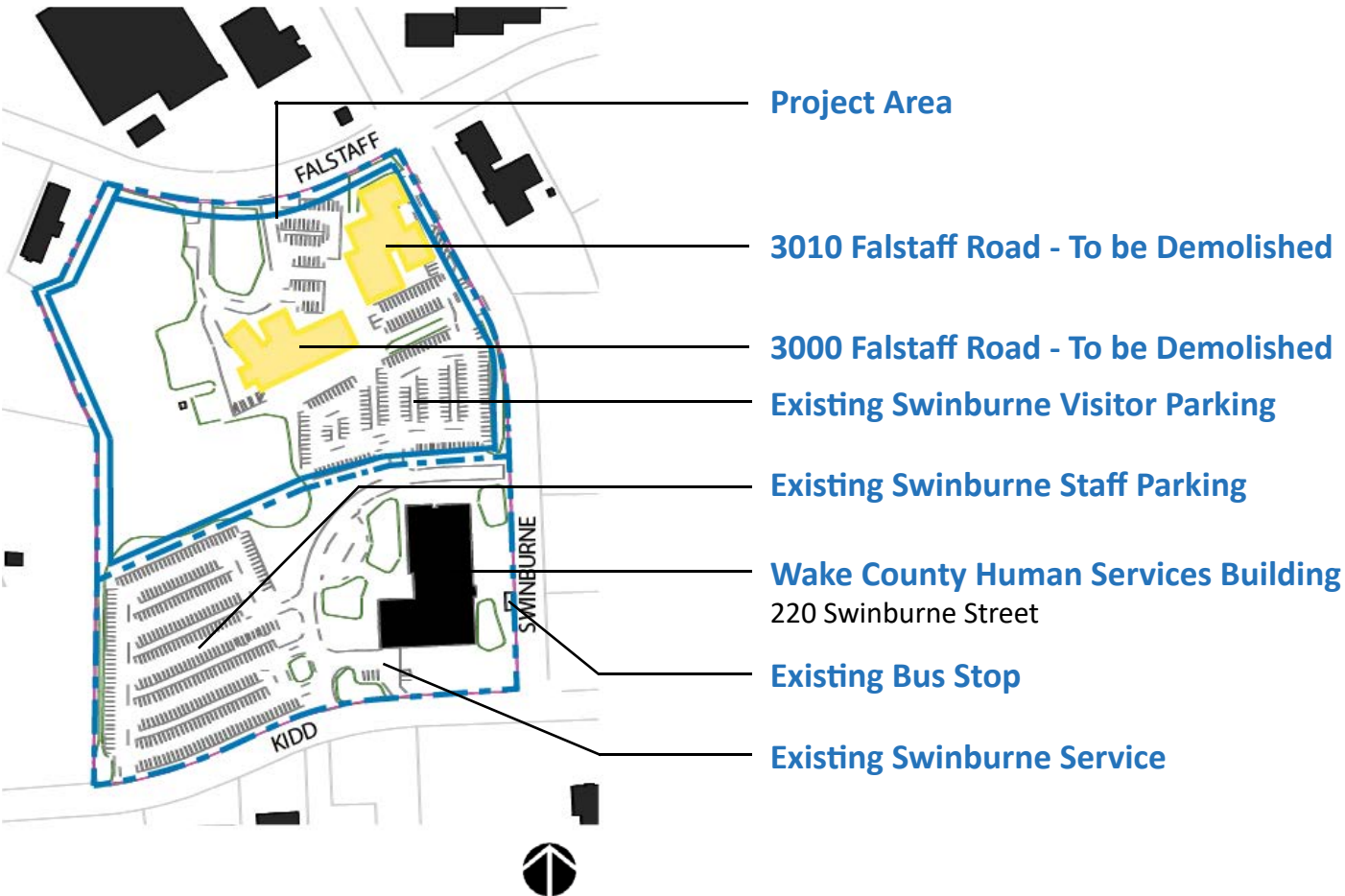
A full site analysis is provided in Volume 2 of this document. For the purposes of Advanced Planning, several site assumptions were made by the design team. The assumptions are based on the most current information related to the site analysis findings, functional program for the Public Health, and parking needs for the new facility. These assumptions may evolve as the design process progresses.

The Project Area has been designated as the northern portion of the Swinburne property. The intent is to not disturb the operations of the existing Swinburne facility during construction of the new facility.

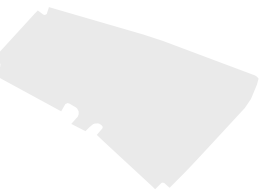
The recommendation is the two existing facilities at 3000 and 3010 Falstaff Road are to be demolished along with the associated surface parking. In some purposed schemes, the current 167-space visitor parking lot is preserved.

The total combined footprint area of both the new building and parking deck is limited to 85,000 SF.

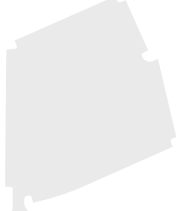
The studies presented are conceptual in nature and are not intended to address topography nor includes a detailed utility analysis.



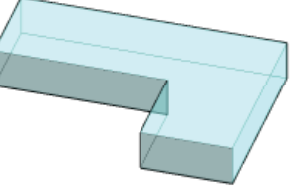
Existing Swinburne Building
4-Story, 154,000 SF Building



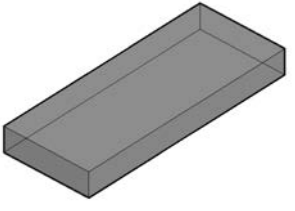
Existing Visitor Parking Lot
163 Spaces



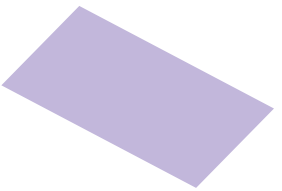
Existing Staff Parking Lot
328 Spaces



New Public Health Building
3-Story, 105,000-110,000 SF Building
45,000 - 50,000 SF Maximum Footprint



New Parking Deck
2-Bay, 3-Level,
Approximately 300 spaces
35,000 SF Footprint



New Surface Parking Lot
TBD Spaces

SITE SCHEMES

The design team vetted numerous scenarios for placing the program elements on the property. Each considered at a high level the various constraints and opportunities the site presented.

The Site Analysis in Volume 2 outlines the site requirements which include limits to the impervious area, building coverage, minimum tree coverage area, regulatory setbacks, and other existing conditions.

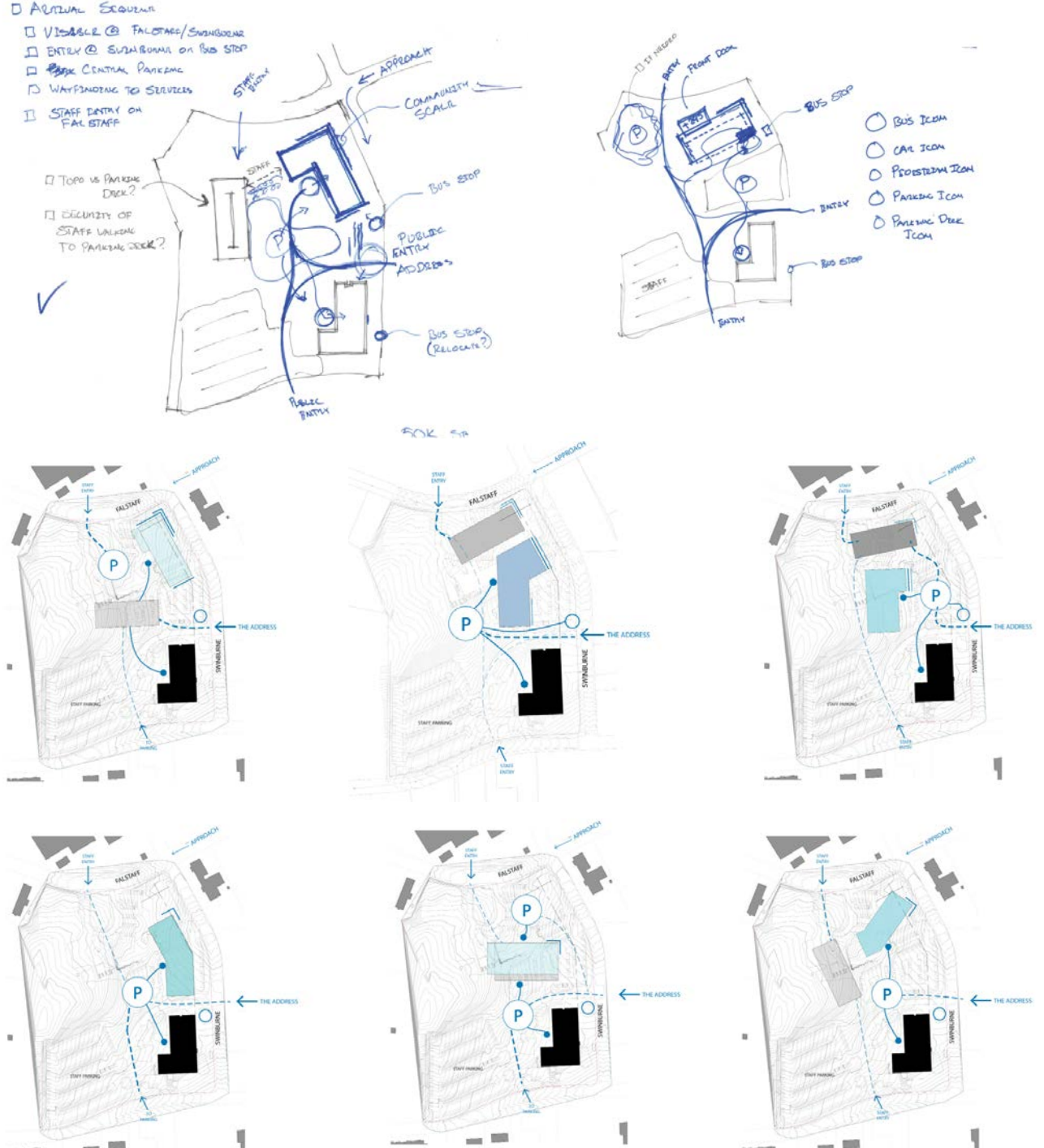
The topography presents a specific challenge with this site, with approximately 20-foot grade change across the width from East to West. The change in elevations will require more attention to maintain an accessible site and control the need for retaining walls.

Through the development of the multiple options a few preferred themes emerged:

- Presence on the corner of Falstaff and Swinburne.
- Centralized visitor parking
- Visual connections to the front door of the new and existing building.
- Balance response to the topography.

Three schemes were advanced as Schemes A, B, and C in this document, but these are not considered final. Rather these schemes represent potential solutions to achieve the goals of the site and the facility. This process will continue into Schematic Design.

PROCESS



SCHEME A - NODE

SCHEME B - EDGE

SCHEME C - LANDMARK

SITE SCHEME A

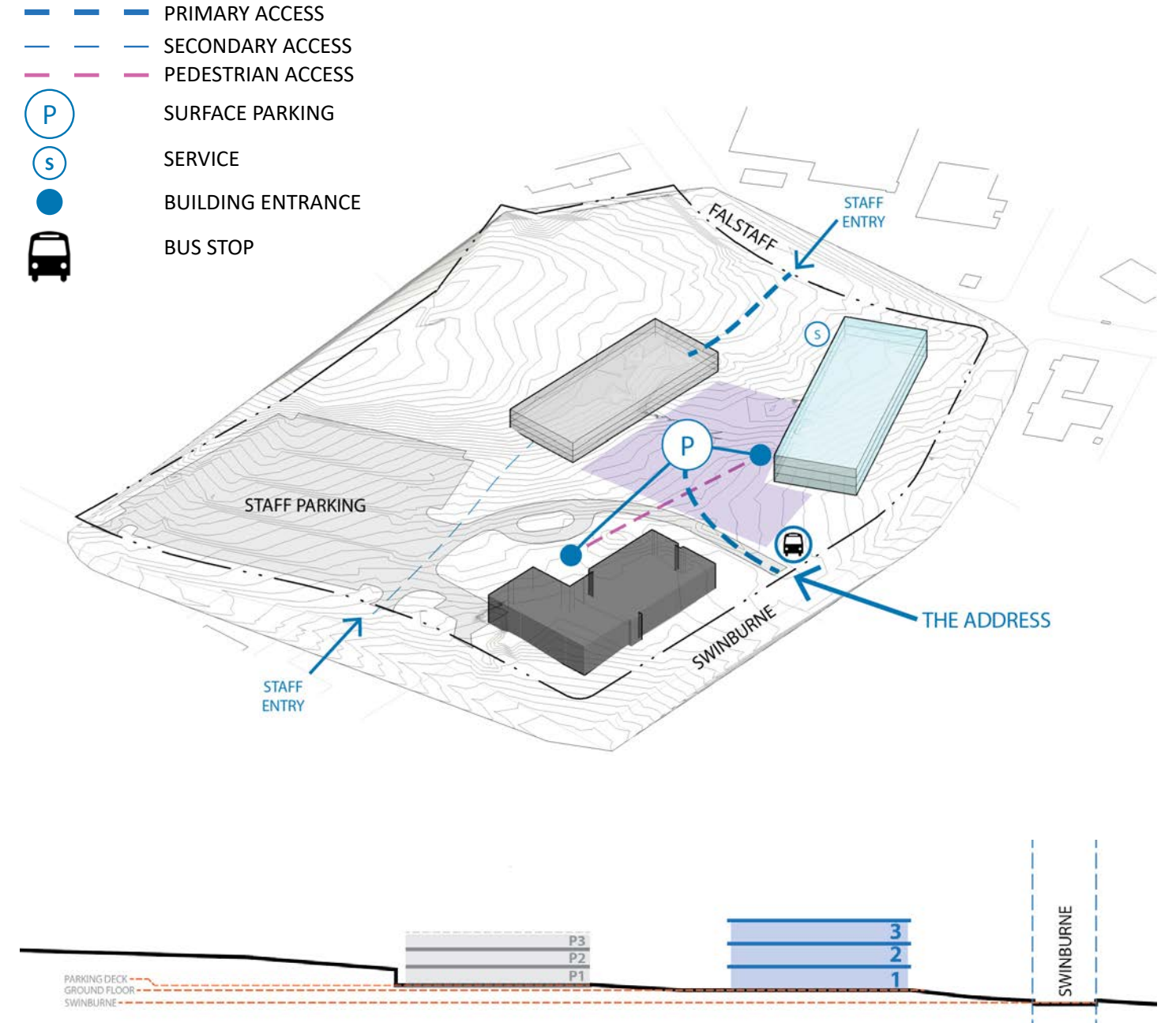
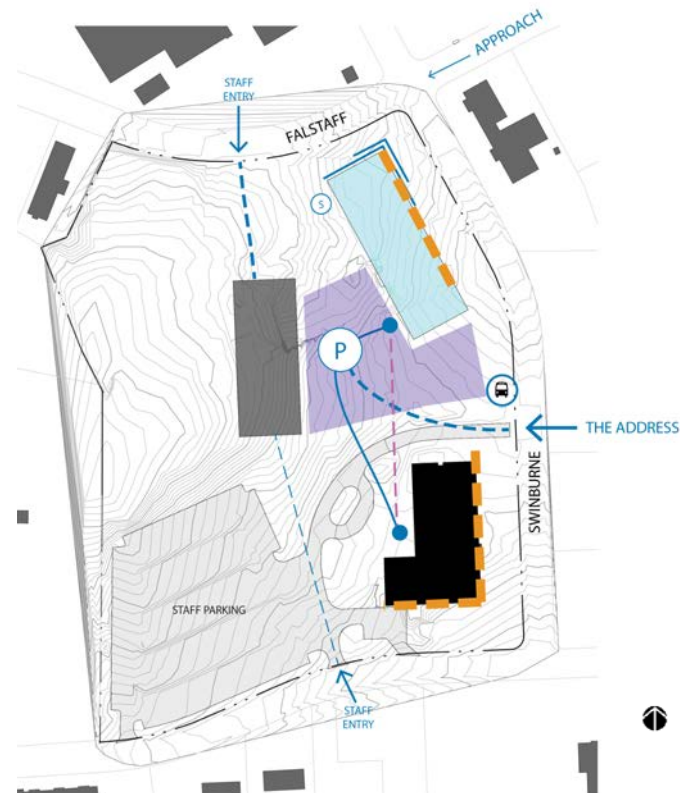
Scheme A is an internal scheme where visitors are brought to a central NODE within it site, then able to access the specific locations on the campus from that point. The building form anchors the corner, mirrors the existing facility, and completes the block.

PROS:

- Visible at the Swinburne and Falstaff intersection.
- Similar relationship to the street as the Swinburne Building.
- Creates a campus.
- Visitors arrive at a central surface parking lot.
- Both Main Entrances are visible to each other.
- Separate staff arrivals and entrances.
- Service away from the public access.
- Building oriented parallel with the topography.

CONS:

- Not the ideal solar orientation.
- Disrupts the existing visitor's parking.
- Relocates the existing bus stop.



SITE SCHEME B

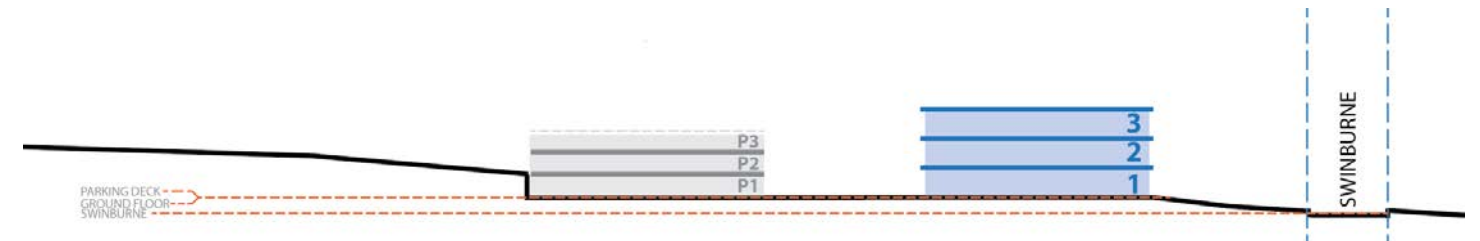
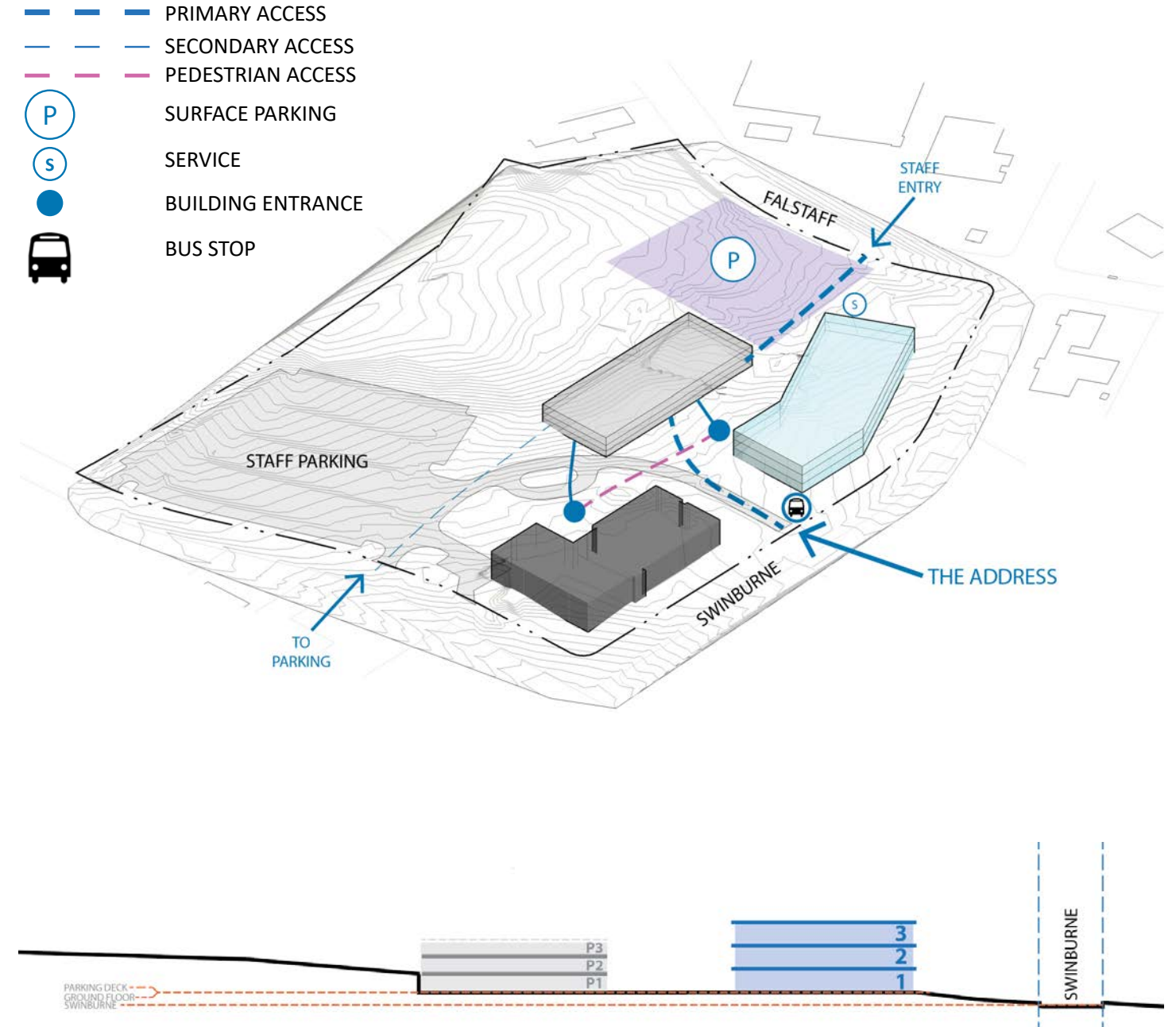
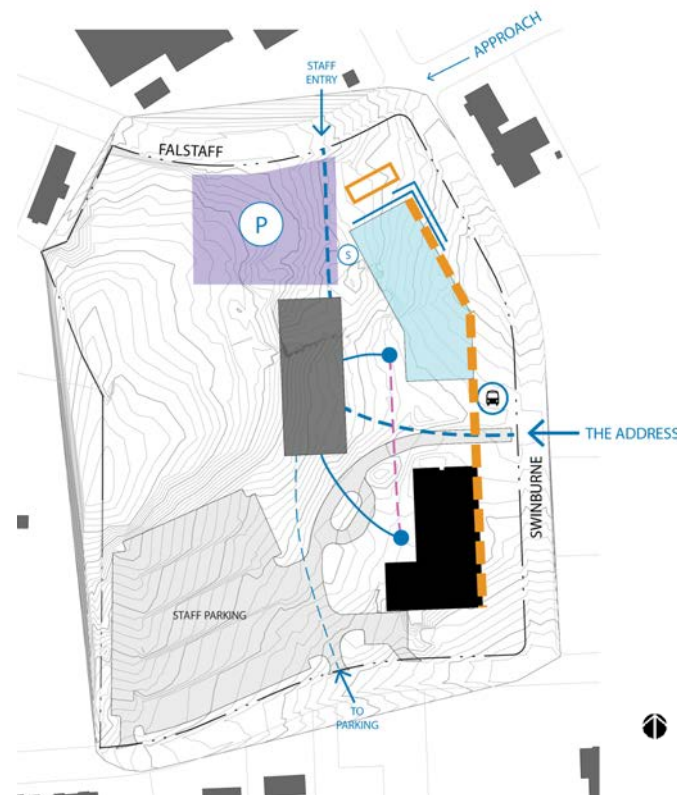
Scheme B continues the EDGE of the existing Swinburne Building, extending the presence of Public Health along Swinburne Street. This scheme also locates visitor parking in a centralized parking deck. The scheme is more compact than other the other options.

PROS:

- Similar relationship to the street as the Swinburne Building.
- Creates a campus
- Visitors arrive at a central parking deck.
- Both Main Entrances are visible to each other.
- Separate staff arrivals and entrances.
- Service away from the public access.
- Building oriented parallel with the topography.
- There is less elevation change between buildings than the other options.

CONS:

- Less visible at the Swinburne and Falstaff intersection.
- Not the ideal solar orientation.
- Disrupts the existing visitor's parking.
- Relocates the existing bus stop.
- Wayfinding in parking deck could be more challenging for visitors.



SITE SCHEME C

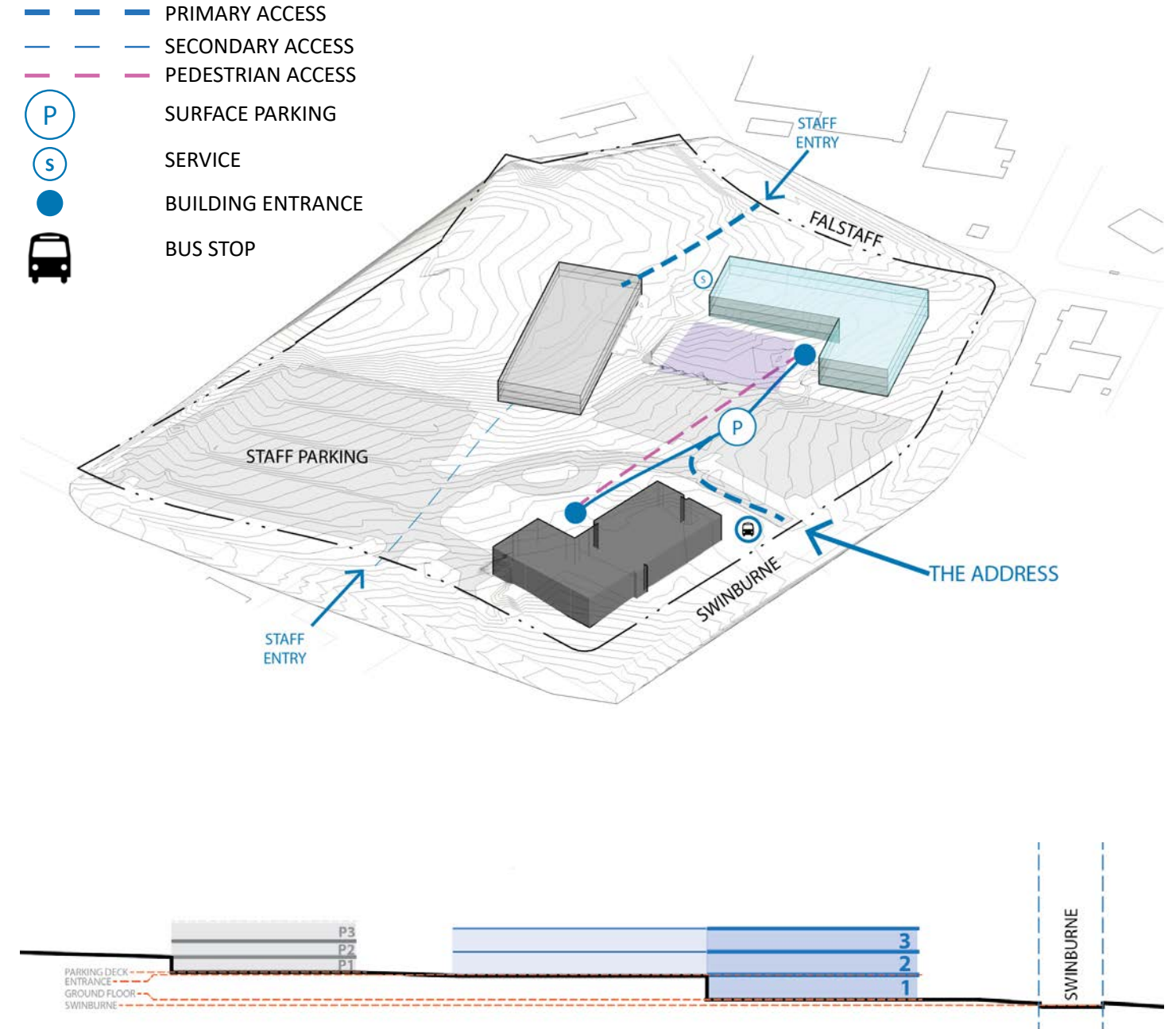
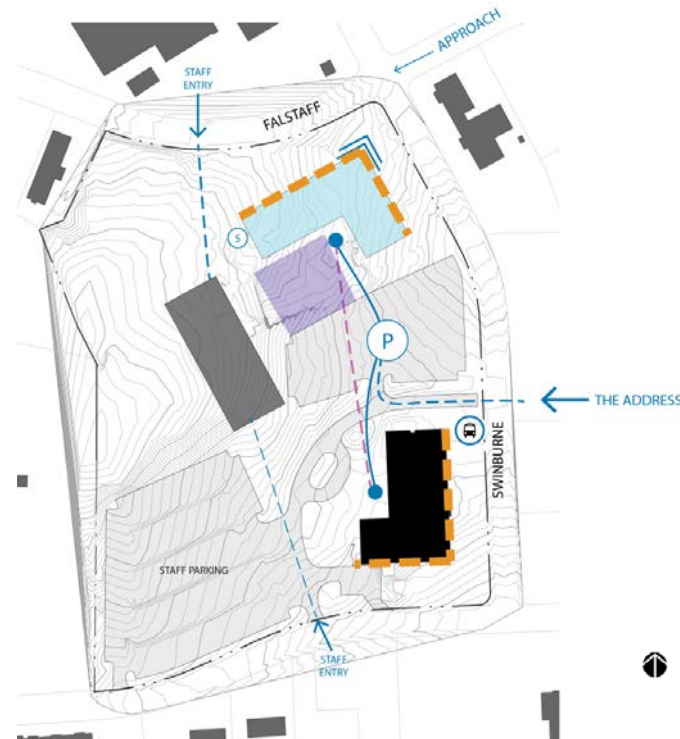
Scheme C creates a LANDMARK on the intersection of Swinburne and Falstaff, fully embracing the corner. Visitors arrive within the existing parking lot and access each facility from that designation.

PROS:

- Occupies the corner.
- Creates a campus.
- Visitors arrive at a central surface parking lot.
- Both Main Entrances are visible to each other.
- Separate staff arrivals and entrances.
- Service away from the public access.
- Building has the ideal solar orientation.
- Preserves the existing visitor’s parking lot.

CONS:

- Relocates the existing bus stop.
- The front doors are further apart and separated by a parking lot.
- Least compact scheme that crosses more topography.



3 ORGANIZATIONAL SCHEMES

OPERATING PRINCIPLES

Promote client dignity	<ul style="list-style-type: none">* Provide a high quality client experience.* Support quality customer service through design.* Streamline service delivery to minimize wait time.
Actively engage clients in their care	<ul style="list-style-type: none">* Provide a high quality client experience.* Create workplace strategy that supports of a variety of work spaces and settings.
Minimize client movement	<ul style="list-style-type: none">* Provide high quality client experience.* Improve way finding and accessibility to promote client self navigating.
Integrate service to meet client needs holistically	<ul style="list-style-type: none">* Treat the whole client by grouping services.
Optimize efficiency and productivity	<ul style="list-style-type: none">* Support service delivery efficiencies that adjust to future service growth or decline.* Create workplace strategy that supports of a variety of work spaces and settings.
Improve accessibility to promote client self-sufficiency	<ul style="list-style-type: none">* Streamline service delivery to minimize wait time.
Develop flexible spaces to accommodate future changes	<ul style="list-style-type: none">* Increase flexibility of facility to accommodate future change
Leverage health information technology	<ul style="list-style-type: none">* Provide high quality client experience.* Improve way finding and accessibility to promote client self-navigating.

ORGANIZATIONAL SCHEMES

In the Advanced Planning Phase the design team, together with Wake County Public Health staff, sought to define the functional relationships of public health and human services to meet the service delivery goals identified in the Operational Assessment and Programming Phases. The approach to developing planning options was to first examine the operational model through the eyes of the client and secondly, use the insights from that examination to guide spatial adjacency testing.

During the Advanced Planning Workshop I, three different preliminary space adjacency diagrams emerged. In Workshop II, each adjacency diagram was evaluated and scored in the context of a potential architectural solution. Subsequent workshops added additional layers of information related to site constraints and site parking strategies impacting the final adjacency recommendations.

The following adjacency diagrams offer distinct spatial organizational concepts for the Wake County Public Health to complement the proposed Operating Framework and support Patient-Centered Integrated Care. The following options have the same design foundation: The Project Guiding Principles and are built upon the Operating Principles as defined in the Guidian Consulting Operational Model Report.

GUIDING PRINCIPLES

- 1

Adaptable
Improve wayfinding, Group services, Streamline to minimize wait, Serve clients with appropriate facility
- 2

Physically accessible to clients
Close to public transportation, Safe and ample parking, Close to the population being served
- 3

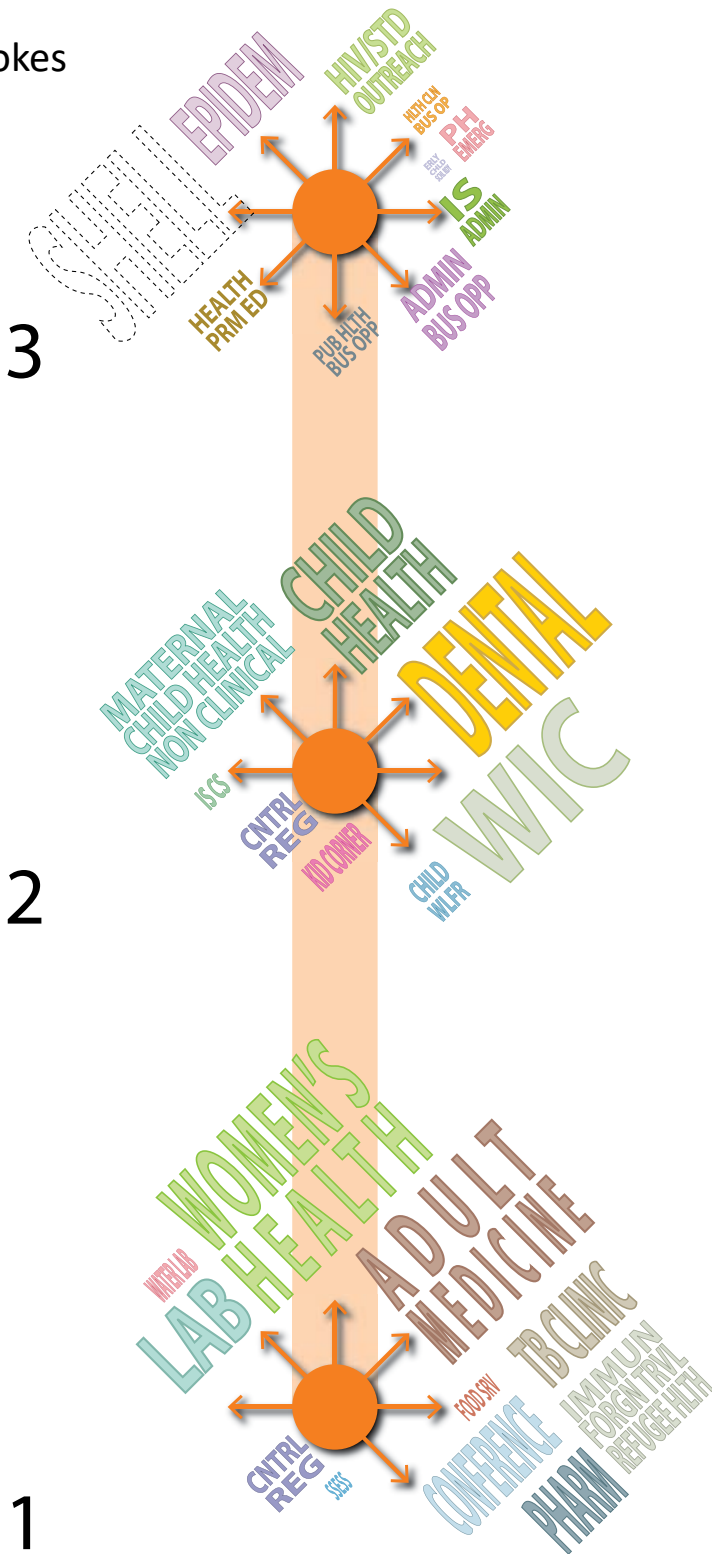
Safe for clients and employees
Safe client-staff interaction spaces, Secure workplace for employees, Spaces for populations that can benefit from separation
- 4

Service efficiency
Supports a variety of workplace settings
- 5

High-quality client experience
Accommodates future changes, Expands and contracts as needed
- 6

Community connection
Community partnerships to strengthen current service offerings, Locate near other facilities supported by the community

Scheme 1:
Hub and Spokes



3	PROGRAMMED AREAS	DGSF
	EPIDEMIOLOGY	2,730
	HIV/STD OUTREACH	2,007
	HEALTH CLINICS - BUSINESS & OPERATIONS	290
	PH EMERGENCY	546
	EARLY CHILD SCHOOL READINESS	104
	IS ADMINISTRATION	909
	ADMIN - BUSINESS & OPERATIONS	1,654
	PUBLIC HEALTH BUSINESS OPERATIONS	739
	HEALTH PROMOTION EDUCATION	2,023
	SHELL	8,201

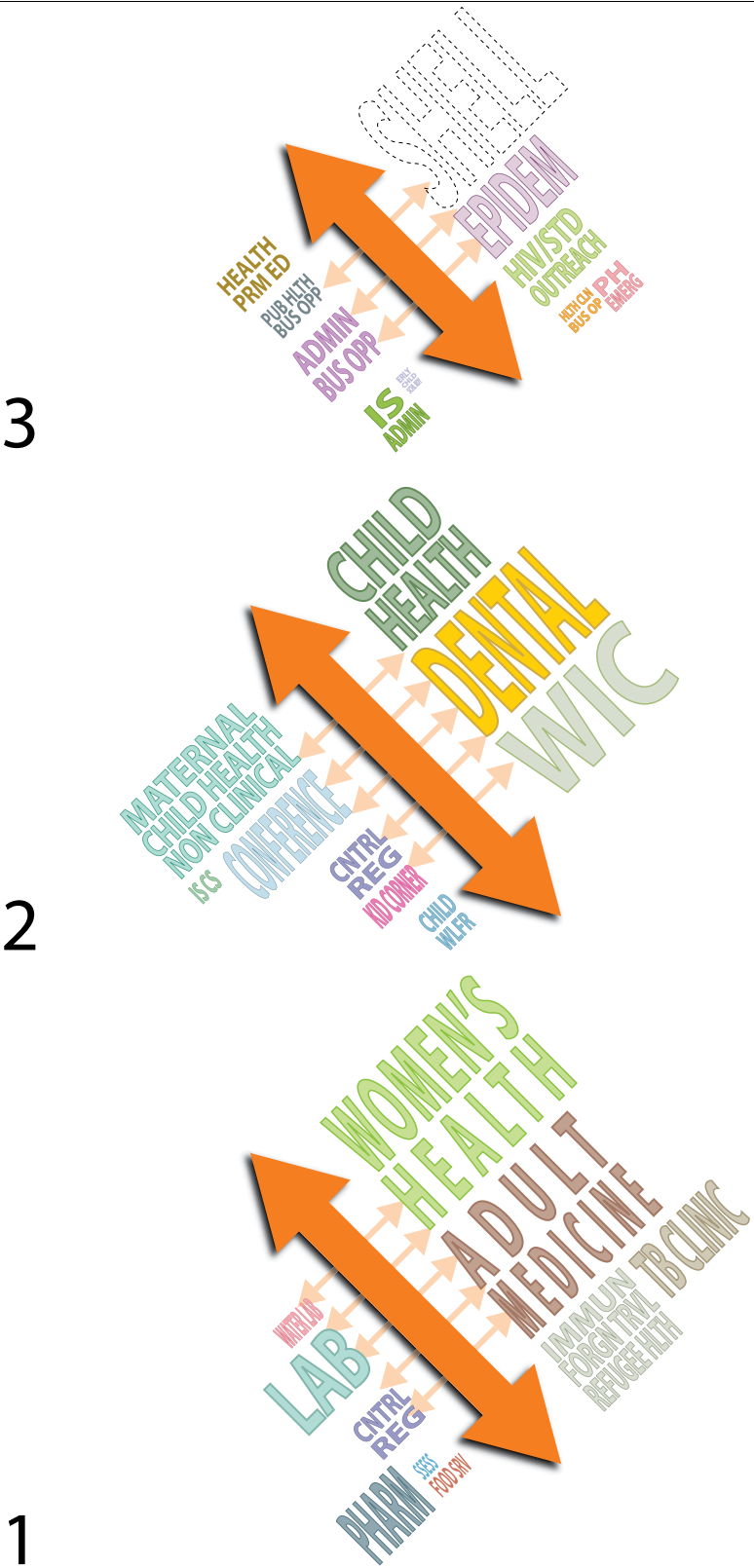
2	PROGRAMMED AREAS	DGSF
	CHILD HEALTH	5,044
	DENTAL	6,267
	WIC	5,715
	CHILD WELFARE	557
	KID CORNER	717
	CENTRAL REGISTRATION	852
	I.S. CUSTOMER SERVICES	242
	MATERNAL CHILD HEALTH NON-CLINICAL	5,033

1	PROGRAMMED AREAS	DGSF
	WOMEN'S HEALTH	11,194
	ADULT MEDICINE	8,068
	TB CLINIC	2,592
	IMMUNIZATION FOREIGN TRAVEL & REFUGEE HEALTH	3,450
	FOOD SERVICE	330
	CONFERENCE	2,876
	PHARMACY	1,714
	SOCIAL SERVICES ECONOMIC SELF-SUFFICIENCY	105
	CENTRAL REGISTRATION	852
	LAB	2,023
	WATER LAB	530

SCHEME 1 - “HUB AND SPOKES”

Scheme 1’s main attribute is the geographical center or hub, with services connected as spokes in the plan. The hub will serve as a central waiting and staging space for clients utilizing multiple services. The hub and spokes scheme gives a central starting point for clients orienting them as they come onto various floors in the facilities. The openness of the hub will also provide wide vistas and enable passive security supervision in the multi-story facility. In addition to being a geographical center, the hub could also serve as a community center, or space to larger public health special programming like community blood drives, health, and wellness education, or provide space for maintaining physical distance if needed.

Scheme 2:
Layer Cake



3	PROGRAMMED AREAS	DGSF
	SHELL	8,201
	EPIDEMIOLOGY	2,730
	HIV/STD OUTREACH	2,007
	PH EMERGENCY	546
	HEALTH CLINICS - BUSINESS & OPERATIONS	290
	EARLY CHILD SCHOOL READINESS	104
	IS ADMINISTRATION	909
	ADMIN - BUSINESS & OPERATIONS	1,654
	PUBLIC HEALTH BUSINESS OPERATIONS	739
	HEALTH PROMOTION EDUCATION	2,023

2	PROGRAMMED AREAS	DGSF
	CHILD HEALTH	5,044
	DENTAL	6,267
	WIC	5,715
	CHILD WELFARE	557
	KID CORNER	717
	CENTRAL REGISTRATION	852
	CONFERENCE	2,876
	I.S. CUSTOMER SERVICES	242
	MATERNAL CHILD HEALTH NON- CLINICAL	5,033

1	PROGRAMMED AREAS	DGSF
	WOMEN'S HEALTH	11,194
	ADULT MEDICINE	8,068
	TB CLINIC	2,592
	IMMUNIZATION FOREIGN TRAVEL & REFUGEE HEALTH	3,450
	FOOD SERVICE	330
	SOCIAL SERVICES ECONOMIC SELF-SUFFICIENCY	105
	CENTRAL REGISTRATION	852
	PHARMACY	1,714
	LAB	2,023
	WATER LAB	530

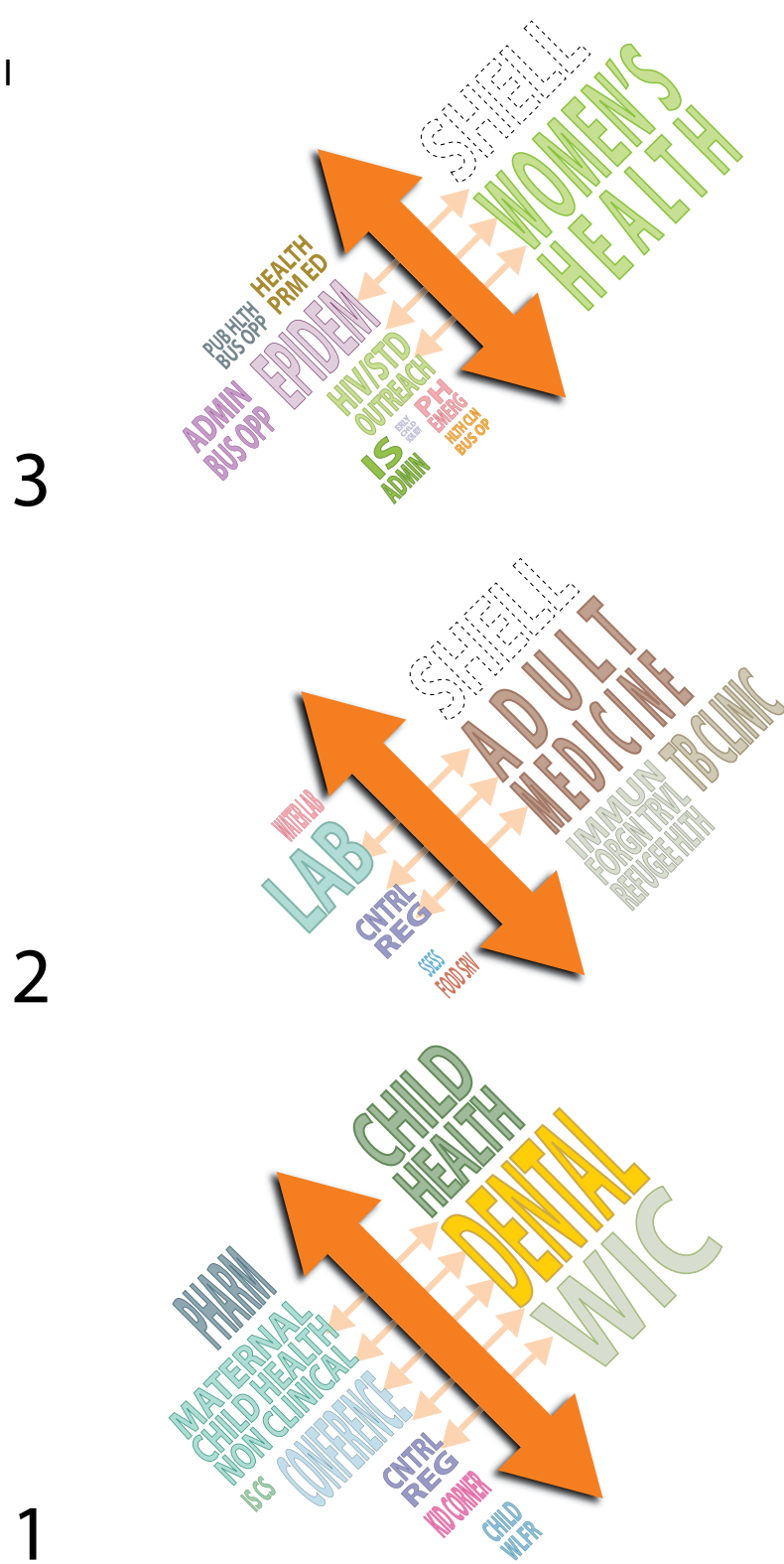
SCHEME 2 - "LAYER CAKE"

The organizational character of the Layer Cake plan layout is an alternating of program space and circulation paths or layering. The Layer Cake scheme groups many of the wrap-around, ancillary, and non-clinical services as the bottom layer with the public concourse just above. The next layer represents the clinical program and beyond the next layer staff and off-stage circulation.

The layer cake provides opportunities to standardize floor plans and simplify way-finding for clients. In scheme 2, departments are more tightly arranged to shorten some of the travel distances.

The ability to maintain separation between clients and employees is inherent by keeping client circulation along the concourse and along the entrance corridors to the treatment spaces.

Scheme 3:
Layer Cake II



3	PROGRAMMED AREAS	DGSF
	SHELL	4,100
	WOMEN'S HEALTH	11,194
	HEALTH CLINICS - BUSINESS & OPERATIONS	290
	PH EMERGENCY	546
	EARLY CHILD SCHOOL READINESS	104
	IS ADMINISTRATION	909
	HIV/STD OUTREACH	2,007
	EPIDEMIOLOGY	2,730
	ADMIN - BUSINESS & OPERATIONS	1,654
	PUBLIC HEALTH BUSINESS OPERATIONS	739
	HEALTH PROMOTION EDUCATION	2,023

2	PROGRAMMED AREAS	DGSF
	SHELL	4,100
	ADULT MEDICINE	8,068
	TB CLINIC	2,592
	IMMUNIZATION FOREIGN TRAVEL & REFUGEE HEALTH	3,450
	FOOD SERVICE	330
	SOCIAL SERVICES ECONOMIC SELF-SUFFICIENCY	105
	CENTRAL REGISTRATION	852
	LAB	2,023
	WATER LAB	530

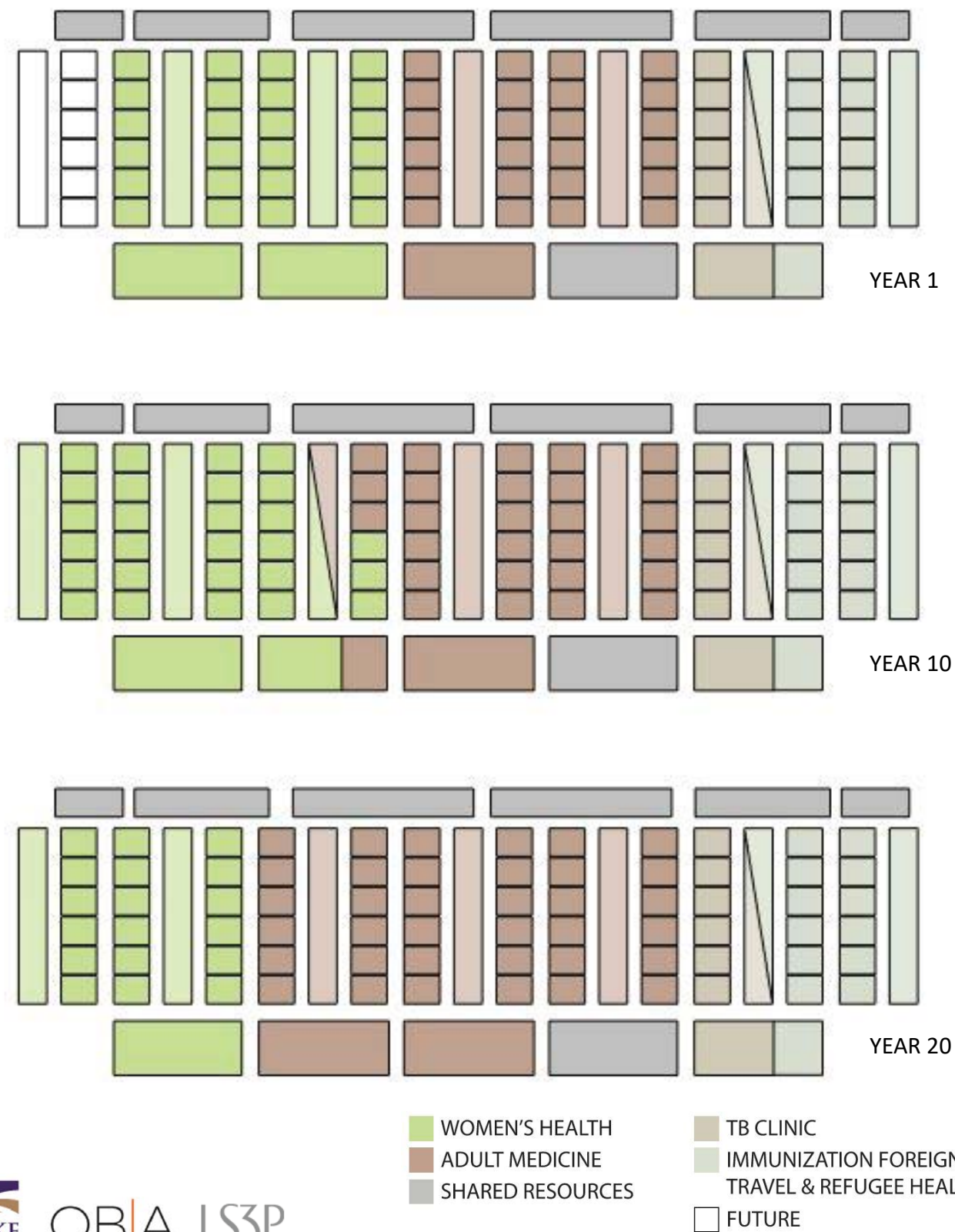
1	PROGRAMMED AREAS	DGSF
	CHILD HEALTH	5,044
	DENTAL	6,267
	WIC	5,715
	CHILD WELFARE	557
	KID CORNER	717
	CENTRAL REG	852
	CONFERENCE	2,876
	I.S. CUSTOMER SERVICES	242
	MATERNAL CHILD HEALTH NON- CLINICAL	5,033
	PHARMACY	1,714

SCHEME 3 - "LAYER CAKE II"

Layer Cake II is a variation of Scheme 2 in which program areas are shuffled to create an option for two stories of building shell. Shell space on Levels 1 and 2 are expansion zones for the clinics with the greatest potential to grow at a faster rate.

Additionally Scheme 3, locates women and children related services to the ground level for easy access and separation from other adult services.

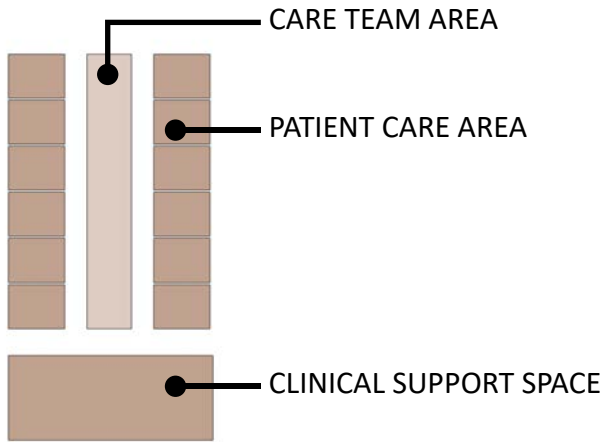
CLINICAL EXAM POD FLEXIBILTY AND ADAPTABILITY



CLINICAL EXAM POD FLEXIBILTY AND ADAPTABILITY

Each Advanced Planning Scheme incorporates a flexible clinic prototype. The components are illustrated below. This includes Clinical Support Space for the following program elements:

- Customer Service Representatives (Check-in/Check-out)
- Waiting
- Consult Rooms



Adjacent to the Clinical Support Space is the Care Team Area where the majority of the Care Team and Extended Care Team staff will work and collaborate. The Care Team Area, with enhanced acoustic elements is derived from the open office work environment and meant to breakdown functional silos. Directly adjacent to the Care Team Area are the Patient Care Area (Exam Rooms, Procedure Rooms etc.)

The clinical pod is designed to enhance collaboration in the work environment, separate patient and staff flows, and provide adaptable space for clinical services. Each Exam room has two entrances; One directly from the Care Team Area and the other from the corridor, to provide separation for staff and clients.

The standardization of the clinical pod supports inter-clinical flexibility. On days when one clinic may need more exam rooms, staff can flow into adjacent pods and utilize available rooms. For the patient, there is no indication they have left the service area. The flexible use of the clinical pod in addition to allocated shell space give Wake County opportunities for various growth scenarios.


4 SPACE REQUIREMENTS

Departmental Program
Room Data Sheets

SPACE PROGRAM SUMMARY

TOTAL DEPARTMENTAL GROSS SQUARE FEET - PROGRAMMED SPACE	79,354
TOTAL DEPARTMENTAL GROSS SQUARE FEET - SHELL SPACE	8,201
	87,555
BUILDING GROSSING FACTOR (BGSF)	1.22
TOTAL BUILDING GSF	106,817

The Advanced Planning Room Data Sheets define the programmatic needs and requirements of key spaces in the project Space Program. The room template code (RT #) corresponds to a specific template that will be applied to the key spaces in the project.



Advanced Planning Room Data Sheets

Wake County Public Health

Code: RT.001

ROOM DATA TEMPLATE CODE

Name

WORKSTATIONS SMALL

Last modified

Harper, Espy, 4/13/2020 12:50 PM

Details

Groups / Classifications / Status

Programmed Area

30.00

Description

Employee computer workstation

Space Type

P-WKS

General Requirements

Description of activities and functions

Employee computer workstation, Drop-in

Occupancy, maximum

1

Electrical

Normal supply - single outlets

☒

Zone divided lighting

☒

Communications

Data, standard

☒

Telephone

☒ 1 Desk Phone

FINISHES

Item Number	Item Name	Gross	To be modeled	ASE	Budget	Responsibility	Priority
Floor							
C2030.30.001	LUXURY VINYL TILE	1	Yes	No		FINISHES	0
Base							
C2030.30.002	RUBBER BASE	1	Yes	No		FINISHES	0
Wall							
C2010.100.001	PAINT	1	Yes	No		FINISHES	0
Ceiling							
C2050.60.001	ACOUSTICAL CEILING TILE	1	Yes	No		FINISHES	0

TEMPLATE ROOM FINISHES

FURNITURE

Item Number	Item Name	Gross	To be modeled	ASE	Budget	Responsibility	Priority
E2050.30.007	CHAIR	1	No	No		FURN	0
E2050.30.003	DESK	1	No	No		FURN	0
E2050.30.006	STORAGE CABINET	1	No	No		FURN	0

TEMPLATE FURNITURE

EQUIPMENT

Item Number	Item Name	Gross	To be modeled	ASE	Budget	Responsibility	Priority
E1040.20.005	PC	1	Yes	Yes		EQP	0
E1040.20.021	PHONE	1	Yes	Yes		EQP	0
E1040.20.022	SCANNER	1	Yes	Yes		EQP	0

TEMPLATE EQUIPMENT

NSF Usable or assignable square footage within a room or area (inside wall-to-wall dimensions).

Space Type	Wake County GSA Designation
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Room Data Template Code List

Wake County Public Health

Code	Name	Area
RT.001	WORKSTATIONS SMALL	30.00
RT.002	WORKSTATIONS MEDIUM	52.00
RT.003	OFFICE, PRIVATE	128.00
RT.004	CLINIC EXAM	128.00
RT.005	DENTAL TREATMENT	128.00
RT.006	DENTAL XRAY	80.00
RT.008	CLINIC MINI LAB	70.00
RT.009	CLINIC CLEAN SUPPLY	100.00
RT.010	CLINIC MEDICATIONS	128.00
RT.011	LACTATION CONSULT	128.00
RT.012	CLINIC CARE TEAM AREA	0.00
RT.014	CLINIC STORAGE	0.00
RT.015	CLINIC PROCEDURE	150.00
RT.016	CLINIC PATIENT TLT	54.00
RT.017	CLINIC BREAKROOM	0.00
RT.018	OFFICE, DIRECTOR	128.00
RT.019	PUBLIC TOILET, MENS	0.00
RT.020	PUBLIC TOILET, WOMENS	0.00
RT.021	IDF ROOM	0.00
RT.022	MDF ROOM	225.00
RT.024	JANITOR CLOSET	0.00
RT.025	BREAKROOM	0.00
RT.026	CENTRAL LOBBY	0.00
RT.027	MAIL ROOM	0.00
RT.029	WATER LAB	0.00
RT.030	PHARMACY	0.00
RT.031	XRAY	0.00
RT.032	OFFICE, SHARED	128.00
RT.033	COLLABORATION WORKSTATION	235.00
RT.036	CLINIC SOILED UTILITY	0.00
RT.037	CLINIC TELEHEALTH WORKSTATION	66.00
RT.038	COPY AREA	40.00
RT.040	CONSULT	128.00
RT.041	TEAM ROOM	0.00
RT.042	DENTAL, STERILIZATION LAB	250.00
RT.043	CHECK-IN	0.00
RT.044	NST ROOM	0.00
RT.045	ULTRASOUND	152.00

***AREAS WITH 0 INDICATE SQUARE FOOTAGE THAT VARIES BY DEPARTMENT**



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.001

Name	TYP. SMALL WORKSTATION
Last modified	Harper, Espy, 4/13/2020 12:50 PM

Details		Groups / Classifications / Status
Programmed Area	30.00	
Description	Employee computer workstation	
Space Type	P-WKS	

General Requirements	
Description of activities and functions Employee computer workstation, Drop-in	
Occupancy, maximum	1

Electrical	
Normal supply - single outlets	<input checked="" type="checkbox"/>
Zone divided lighting	<input checked="" type="checkbox"/>

Communications	
Data, standard	<input checked="" type="checkbox"/>
Telephone	<input checked="" type="checkbox"/> 1 Desk Phone

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.30.001	LUXURY VINYL TILE	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0

Furniture

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E2050.30.003	DESK	0	FURN	1	1	0	0
E2050.30.006	STORAGE CABINET	0	FURN	1	1	0	0
E2050.30.007	CHAIR	0	FURN	1	1	0	0

Equipment

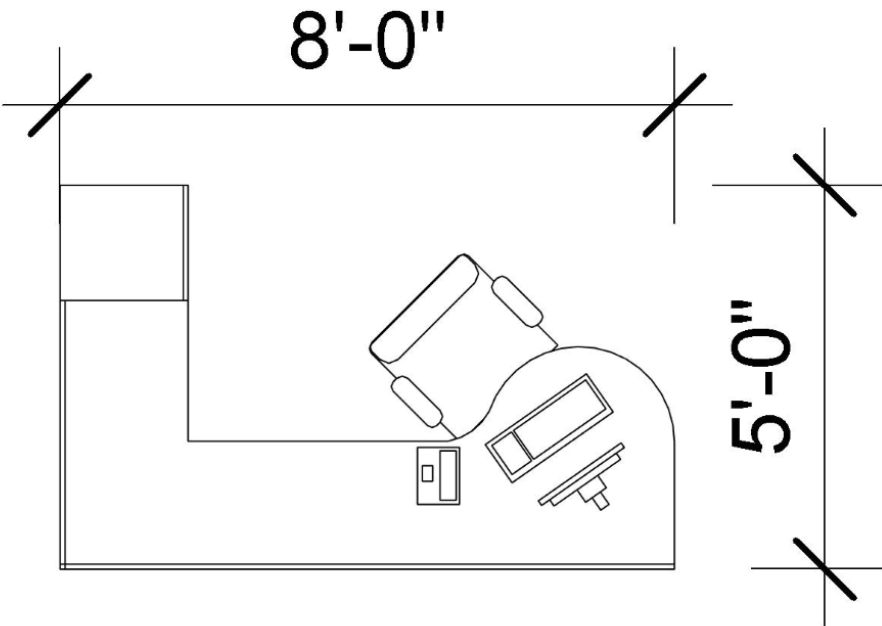
Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.005	PC	0	EQP	1	1	0	0
E1040.20.021	PHONE	0	EQP	1	1	0	0
E1040.20.022	SCANNER	0	EQP	1	1	0	0



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.001



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
16.027		WORKSTATION, CASE WORKER	From RT.001	30.00
16.029	178B	WORKSTATION, REFERAL COORD.	From RT.001	30.00
39.010	138B	WORKSTATION, NURSE	From RT.001	30.00
39.011	138A	WORKSTATION, NURSE	From RT.001	30.00
39.012	136	WORKSTATION, PHARMACIST TECHNICIAN	From RT.001	30.00
46.009	330A	WORKSTATION, COMMUNITY OUTREACH	From RT.001	30.00
46.014		WORKSTATION, COMMUNITY OUTREACH	From RT.001	30.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.002

Name	TYP. MEDIUM WORKSTATION		
Last modified	Harper, Espy, 5/8/2020 3:07 PM		
Details		Groups / Classifications / Status	
Programmed Area	52.00		
Description	Employee computer workstation		
Space Type	P-WKS		
General Requirements			
Occupancy, maximum	1		
Architectural			
Special/Other	Cubicle Wall Dividers		
Length (Min.)	8 feet		
Width (Min.)	6 feet		
Electrical			
Normal supply - single outlets	<input checked="" type="checkbox"/>	As required by code	
Task Lighting	<input checked="" type="checkbox"/>	Desk Lamp	
Communications			
Data, standard	<input checked="" type="checkbox"/>		
Telephone	<input checked="" type="checkbox"/>		

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.75.002	CARPET	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0

Furniture

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E2050.30.003	DESK	0	FURN	1	1	0	0
E2050.30.007	CHAIR	0	FURN	1	1	0	0

Equipment

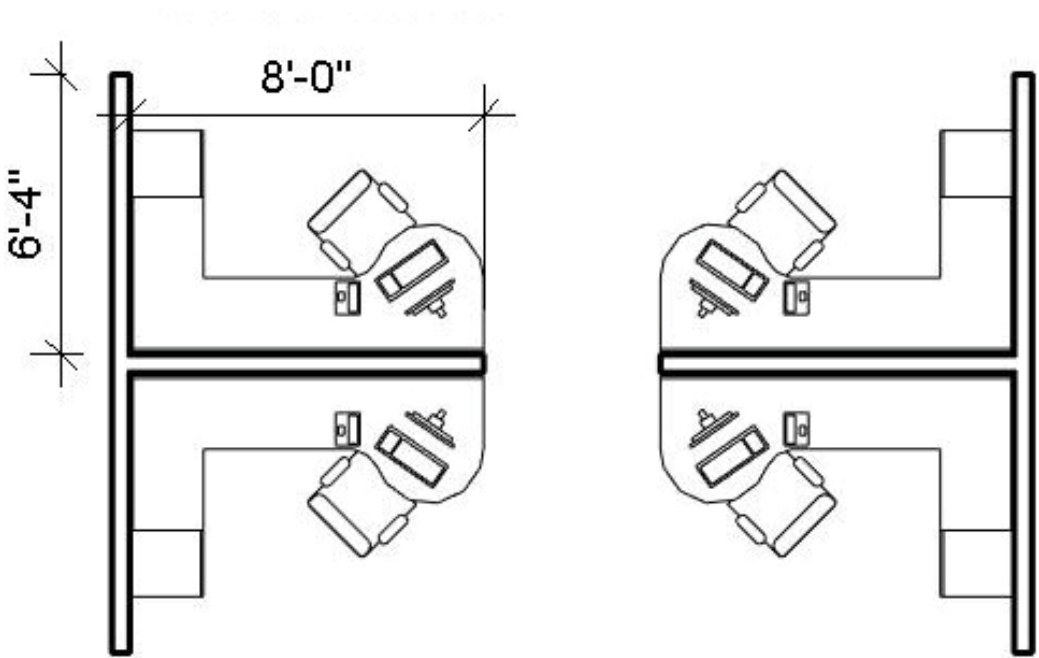
Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.005	PC	0	EQP	1	1	0	0
E1040.20.010	WASTE RECEPTACLE	0	EQP	1	1	0	0
E1040.20.021	PHONE	0	EQP	1	1	0	0
E1040.20.022	SCANNER	0	EQP	1	1	0	0



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.002



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
02.007	360M	WORKSTATION, TOUCHDOWN	From RT.002	52.00
02.009	354	WORKSTATION, NURSE	From RT.002	52.00
02.010	357_	WORKSTATION, INTERPRETER	From RT.002	52.00
02.011	357B	WORKSTATION, NURSE	From RT.002	52.00
02.012	357C	WORKSTATION, NURSE	From RT.002	52.00
02.013	357D	WORKSTATION, SECRETARY	From RT.002	52.00
02.014	357E	WORKSTATION, TOUCHDOWN	From RT.002	52.00
02.015	357F	WORKSTATION, CARE MANAGER	From RT.002	52.00
02.017	367B	WORKSTATION, NURSE	From RT.002	52.00
02.018	367A	WORKSTATION, NURSE	From RT.002	52.00
02.024	359G	WORKSTATION, SECRETARY	From RT.002	52.00
02.028	360E	WORKSTATION, HEALTH EDUCATOR	From RT.002	52.00
02.029	360C	WORKSTATION, CARE MANAGER	From RT.002	52.00
02.031	360A	WORKSTATION, CARE MANAGER	From RT.002	52.00
02.032	360D	WORKSTATION, SECRETARY	From RT.002	52.00
02.033	360L	WORKSTATION, SECRETARY	From RT.002	52.00
02.034	360F	WORKSTATION, CARE MANAGER	From RT.002	52.00
02.035	360H	WORKSTATION, CARE MANAGER	From RT.002	52.00
02.036	360N	WORKSTATION, SECRETARY	From RT.002	52.00
02.040	352E	WORKSTATION, INTERPRETER	From RT.002	52.00
02.041	352D	WORKSTATION, SECRETARY	From RT.002	52.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.002

Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
02.043	352B	WORKSTATION, TOUCHDOWN	From RT.002	40.00
02.044	352A	WORKSTATION, NURSE	From RT.002	52.00
02.045	358E	WORKSTATION, HEALTH EDUCATOR	From RT.002	52.00
02.046	358C	WORKSTATION, NURSE	From RT.002	52.00
02.047	358G	WORKSTATION, NURSE	From RT.002	52.00
02.048	358A	WORKSTATION, NURSE	From RT.002	52.00
02.057	205D	WORKSTATION, INTERPRETER	From RT.002	52.00
02.058	205E	WORKSTATION, INTERPRETER	From RT.002	52.00
02.060	352B (Copy)	WORKSTATION, TOUCHDOWN	From RT.002	40.00
02.061	352B (Copy 2)	WORKSTATION, TOUCHDOWN	From RT.002	40.00
08.003		WORKSTATION	From RT.002	52.00
08.004		WORKSTATION	From RT.002	52.00
08.005		WORKSTATION	From RT.002	52.00
08.006		WORKSTATION	From RT.002	52.00
11.1.020	135F	WORKSTATION	From RT.002	52.00
11.1.021	135K	WORKSTATION	From RT.002	52.00
11.1.022	135I	WORKSTATION	From RT.002	52.00
11.1.035		WORKSTATION, REGIONAL COORDINATOR	From RT.002	52.00
11.1.036		WORKSTATION, COMMUNITY NURSE	From RT.002	52.00
11.2.021	135C	WORKSTATION	From RT.002	52.00
11.2.022	135A	WORKSTATION	From RT.002	52.00
11.2.032	135E	WORKSTATION	From RT.002	52.00
14.2.031	316C	WORKSTATION, NUTRITIONIST	Derived from RT.002	52.00
15.056		WORKSTATION	From RT.002	64.00
15.057		WORKSTATION	From RT.002	64.00
15.058		WORKSTATION	From RT.002	64.00
16.026	135B	WORKSTATION	From RT.002	52.00
16.046	316D	WORKSTATION, NUTRITIONIST	Derived from RT.002	52.00
17.036	245G	WORKSTATION	From RT.002	52.00
23.037	46.1.016	WORKSTATION	From RT.002	52.00
23.038	G26C	WORKSTATION, VOUCHER COORDINATION	From RT.002	52.00
23.039	G26B	WORKSTATION, VOUCHER COORDINATION	From RT.002	52.00
23.040	G26A	WORKSTATION, VOUCHER COORDINATION	From RT.002	52.00
23.041	G24G	WORKSTATION, VOUCHER COORDINATION	From RT.002	52.00
23.042	G24F	WORKSTATION, VOUCHER COORDINATION	From RT.002	52.00
23.043	G24E	WORKSTATION, VOUCHER COORDINATION	From RT.002	52.00
23.044	G24H	WORKSTATION, VOUCHER COORDINATION	From RT.002	52.00
23.046	G24C	WORKSTATION, VOUCHER COORDINATION	From RT.002	52.00
23.047	G24B	WORKSTATION, VOUCHER COORDINATION	From RT.002	52.00
23.065	337C	WORKSTATION	From RT.002	52.00
23.066	337D	WORKSTATION	From RT.002	52.00
23.067	335B	WORKSTATION	From RT.002	52.00
23.068	335A	WORKSTATION	From RT.002	52.00
23.071	336B	WORKSTATION	From RT.002	52.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.002

Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
23.072	336C	WORKSTATION	From RT.002	52.00
24.007	195E	WORKSTATION, CUSTOMER SERVICE REP	From RT.002	52.00
24.009	195D	WORKSTATION, CUSTOMER SERVICE REP	From RT.002	52.00
27.1.001	G91I	WORKSTATION, STAFF	From RT.002	52.00
27.2.023	195A	WORKSTATION, CUSTOMER SERVICE REP	From RT.002	52.00
27.2.024	377C	WORKSTATION	From RT.002	52.00
27.3.002	358H	WORKSTATION	From RT.002	52.00
41.1.003	310A	WORKSTATION	From RT.002	52.00
41.1.004	371E	WORKSTATION	From RT.002	52.00
41.1.005	310B	WORKSTATION	From RT.002	52.00
41.1.006	372F	WORKSTATION	From RT.002	52.00
41.1.008	323	OFFICE	From RT.002	52.00
41.1.009	373F	WORKSTATION	From RT.002	52.00
41.1.012	309H	WORKSTATION	From RT.002	52.00
41.1.013	309G	WORKSTATION, HEALTH EDUCATOR	Derived from RT.002	52.00
41.1.014	372H	WORKSTATION	From RT.002	52.00
41.1.016	309F	WORKSTATION, HEALTH EDUCATOR	Derived from RT.002	52.00
41.1.017		WORKSTATION, HEALTH EDUCATOR	From RT.002	52.00
41.1.018	373C	WORKSTATION	From RT.002	52.00
41.2.005	245C-1	WORKSTATION	From RT.002	52.00
41.2.008	337A	WORKSTATION	From RT.002	52.00
41.3.001	320B	WORKSTATION, SPECIALIST	From RT.002	52.00
41.4.001	327D	WORKSTATION	From RT.002	52.00
41.4.002	327A	WORKSTATION	From RT.002	52.00
41.4.003	327B	WORKSTATION	From RT.002	52.00
41.4.004	327C	WORKSTATION	From RT.002	52.00
46.005	321C	WORKSTATION, HEALTH EDUCATOR	From RT.002	52.00
46.006	321B	WORKSTATION, HEALTH EDUCATOR	From RT.002	52.00
46.007	321A	WORKSTATION, SENIOR ACCOUNTING TECH	From RT.002	52.00
46.008	321D	WORKSTATION, SECRETARY	From RT.002	52.00
46.016		WORKSTATION, HIV/STD TESTING	From RT.002	52.00
46.017		WORKSTATION, HIV/STD TESTING	From RT.002	52.00
46.018		WORKSTATION, HIV/STD TESTING	From RT.002	52.00
46.027		WORKSTATION, HIV/AIDS SOCIAL WORKERS	From RT.002	52.00
46.028		WORKSTATION, HIV/AIDS SOCIAL WORKERS	From RT.002	52.00
47.002	320A	WORKSTATION, CASE WORKER	Derived from RT.002	52.00
47.018	316B	WORKSTATION	From RT.002	52.00
48.003	309A	WORKSTATION	From RT.002	52.00
48.004	309E	WORKSTATION	From RT.002	52.00
51.001		WORKSTATION	From RT.002	52.00
53.002	309C	WORKSTATION	From RT.002	52.00
53.003	377A	WORKSTATION	From RT.002	52.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.003

Name	OFFICE, PRIVATE		
Last modified	Harper, Espy, 5/7/2020 2:11 PM		

Details		Groups / Classifications / Status	
Programmed Area	128.00		
Description			
Space Type	P-OFFC		

General Requirements			
Occupancy, maximum	4		

Architectural			
Length (Min.)	12 feet		
Width (Min.)	10 feet		

Access			
Doors/Openings 1	Wood	3 W ft.	7 H ft.
Locking mechanism	<input checked="" type="checkbox"/> Key		
		Shading	Blinds

Electrical		
Normal supply - single outlets	<input checked="" type="checkbox"/>	As required by code
Occupancy/Vacancy Sensor	<input checked="" type="checkbox"/>	
Task Lighting	<input checked="" type="checkbox"/>	

Communications	
Data, standard	<input checked="" type="checkbox"/>
Telephone	<input checked="" type="checkbox"/>

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.75.002	CARPET	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0

Furniture

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E2050.30.003	DESK	0	FURN	1	1	0	0
E2050.30.008	VISITOR CHAIR	0	FURN	1	1	0	0
E2050.30.010	TASK CHAIR	0	FURN	1	1	0	0

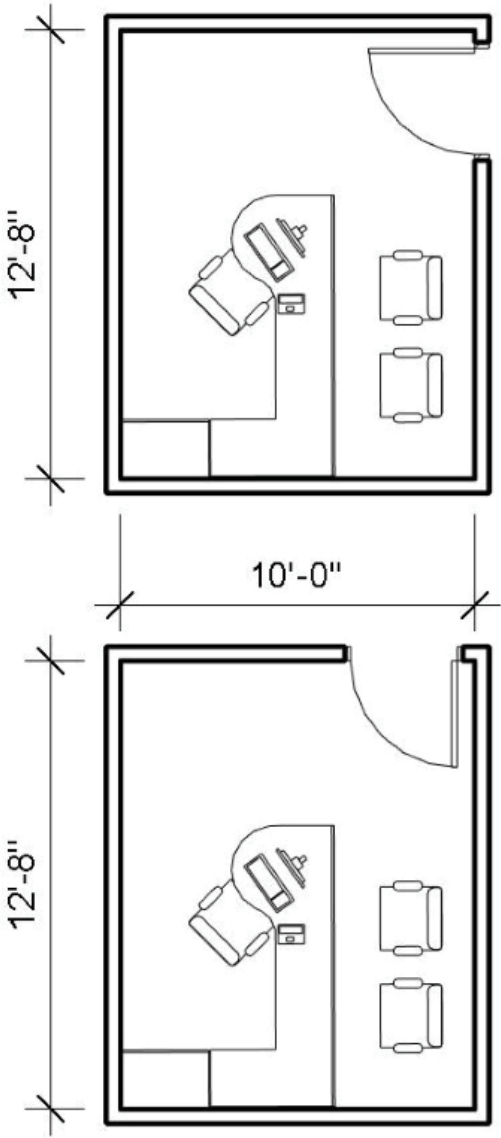


Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.003

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.005	PC	0	EQP	1	1	0	0





Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.003

Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
02.008	356	OFFICE, SUPERVISOR	From RT.003	128.00
02.020	362	OFFICE, SUPERVISOR	From RT.003	128.00
02.059		OFFICE, SUPERVISOR	From RT.003	128.00
02.065		OFFICE, SUPERVISOR	From RT.003	128.00
02.066		OFFICE, SUPERVISOR	From RT.003	128.00
02.067		OFFICE, SUPERVISOR	From RT.003	128.00
02.068		OFFICE, SUPERVISOR	From RT.003	128.00
02.070		OFFICE, PROGRAM MANAGER	From RT.003	128.00
02.071		OFFICE, PROGRAM CONSULTANT	From RT.003	128.00
02.072		OFFICE, PROGRAM CONSULTANT	From RT.003	128.00
08.001	G47	OFFICE	From RT.003	128.00
08.007	G45	OFFICE	From RT.003	128.00
09.003		OFFICE	From RT.003	128.00
11.1.034	326	OFFICE, CLINICAL OPERATIONS MANAGER	From RT.003	128.00
14.1.047	205A	OFFICE	From RT.003	128.00
14.2.030	309I	OFFICE, COORDINATOR	Derived from RT.003	128.00
15.002	214	OFFICE	From RT.003	128.00
15.003	213	OFFICE	From RT.003	128.00
15.004	212	OFFICE	From RT.003	128.00
17.016	240	OFFICE, SUPERVISOR	From RT.003	128.00
22.008	386	OFFICE	From RT.003	128.00
23.069	335	OFFICE	From RT.003	128.00
27.1.012	G95	OFFICE, SUPERVISOR	From RT.003	128.00
27.1.018		OFFICE, SUPERVISOR	From RT.003	128.00
27.1.019		OFFICE, SUPERVISOR	From RT.003	128.00
27.2.022	197	OFFICE	From RT.003	128.00
41.1.007	324	OFFICE, SUPERVISOR	From RT.003	128.00
41.1.010	372G	OFFICE, SUPERVISOR	Derived from RT.003	128.00
41.1.011	319	OFFICE, SUPERVISOR	Derived from RT.003	128.00
41.3.002		OFFICE, PROGRAM MANAGER	From RT.003	128.00
41.5.001		OFFICE	From RT.003	120.00
46.010		OFFICE, SUPERVISOR	From RT.003	128.00
46.013		OFFICE, SUPERVISOR	From RT.003	128.00
46.036		OFFICE, PATIENT NAVIGATORS	From RT.003	128.00
46.037		OFFICE, PATIENT NAVIGATORS	From RT.003	128.00
47.007	305	OFFICE, PROGRAM MANAGER	Derived from RT.003	128.00
47.010	371D	OFFICE, UNIT MANAGER	Derived from RT.003	128.00
47.012	338	OFFICE, SUPERVISOR	Derived from RT.003	128.00
48.001	307	OFFICE	From RT.003	128.00
48.002	308	OFFICE	From RT.003	128.00
48.005	378	OFFICE	From RT.003	128.00
48.006	343	OFFICE	From RT.003	128.00
51.002		OFFICE, SUPERVISOR	From RT.003	128.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.003

Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
53.001	306	OFFICE	From RT.003	128.00
UUU.004	134	OFFICE	From RT.003	88.46



Advanced Planning Room Data Sheets

Wake County Public Health

Code: RT.004

Name	CLINIC EXAM
Last modified	Harper, Espy, 5/7/2020 12:30 PM

Details	Groups / Classifications / Status
Programmed Area	128.00
Description	Typical clinic exam room
Space Type	S-CLINIC
S-EXAM?	

General Requirements			
Schedule	5 d/w		
Occupancy, maximum	4	Typically 3, Patient, Provider, and Other Visitor	

Architectural			
Wall Blocking	<input checked="" type="checkbox"/>		
Protection of privacy	<input checked="" type="checkbox"/>		
Protection	<input checked="" type="checkbox"/>	Rigid Sheet Wall Protection	4
Special sound requirements	<input checked="" type="checkbox"/>	Out	
Length (Min.)	12 feet		
Width (Min.)	10 feet		
Height between floors and suspended ceilings	9 feet		

Access			
Doors/Openings 1	Wood	3 W ft.	7 H ft.
Doors/Openings 2	Wood	3 W ft.	7 H ft.
Sliding doors	<input checked="" type="checkbox"/>	2	
Openings without thresholds	<input checked="" type="checkbox"/>		
Operable	N	Shading	Blinds

Plumbing			
Sink/Basin	<input checked="" type="checkbox"/>	Qty. Single Basin	
Sink Faucet/Handle		Faucet Type Gooseneck	Handle Type Wrist blade
Water supply - cold water	<input checked="" type="checkbox"/>		
Water supply - hot water	<input checked="" type="checkbox"/>		

Electrical	
Normal supply - single outlets	<input checked="" type="checkbox"/> As shown and required by code
Occupancy/Vacancy Sensor	<input checked="" type="checkbox"/>

Communications	
Data, standard	<input checked="" type="checkbox"/>

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.30.001	LUXURY VINYL TILE	0	FINISHES	1	1	0	0
Base							



Advanced Planning Room Data Sheets

Wake County Public Health

Code: RT.004

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0

Equipment

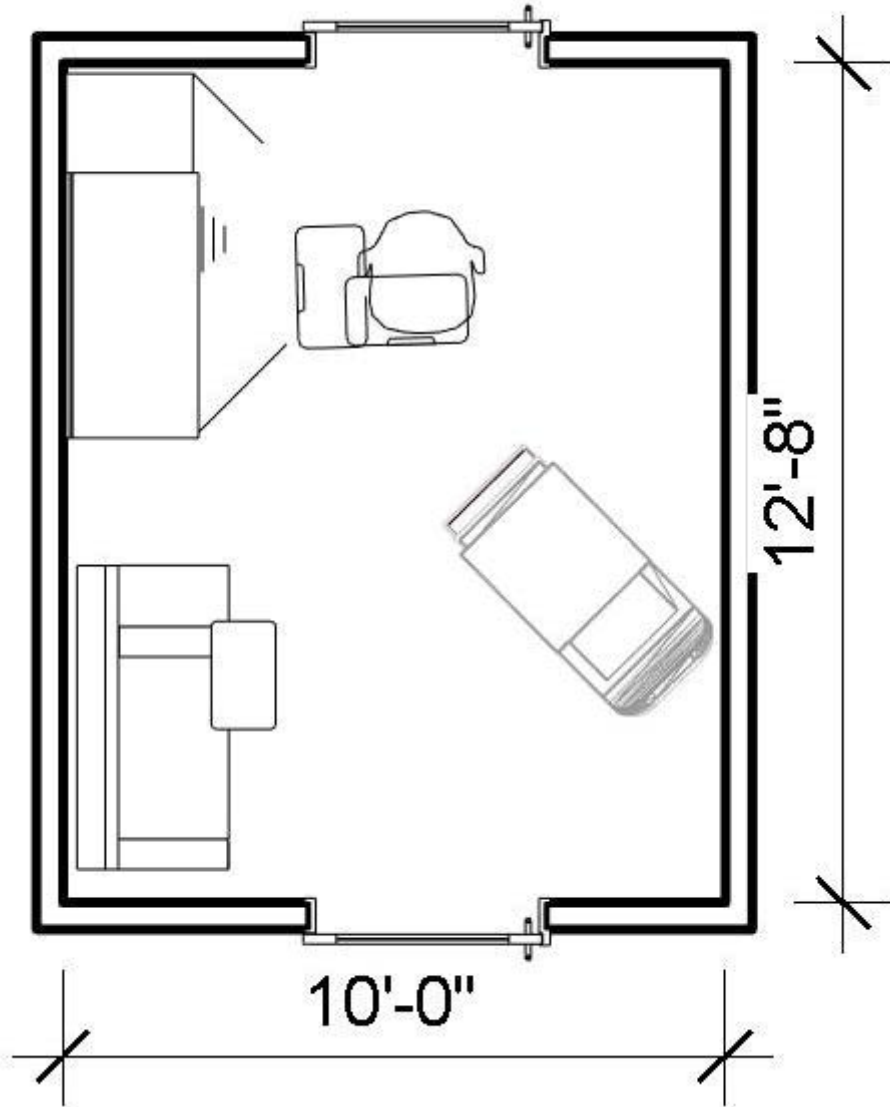
Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.006	PAPER TOWEL DISPENSER	0	EQP	1	1	0	0
E1040.20.007	SOAP DISPENSER	0	EQP	1	1	0	0
E1040.20.009	OTOSCOPE-OPHTHALMASCOPE	0	EQP	1	1	0	0
E1040.20.010	WASTE RECEPTACLE	0	EQP	1	1	0	0
E1040.20.012	STOOL	0	EQP	1	1	0	0
E1040.20.013	EXAM TABLE	0	EQP	1	1	0	0
E1040.20.014	SHARPS	0	EQP	1	1	0	0
E1040.20.015	CUBICLE CURTAIN	0	EQP	1	1	0	0
E1040.20.016	GLOVE DISPENSER	0	EQP	1	1	0	0
E1040.20.028	COAT HOOK	0	EQP	1	1	0	0
E1040.20.030	SPHYGMOMANOMETER	0	EQP	1	1	0	0
E1040.20.031	SOILED HAMPER	0	EQP	1	1	0	0



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.004



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
11.1.002	157	EXAM ROOM	From RT.004	128.00
11.1.003	156	EXAM ROOM	From RT.004	128.00
11.1.004	33.1.073	EXAM ROOM	From RT.004	128.00
11.1.005	152	EXAM ROOM	From RT.004	128.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.004

Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
11.1.006	150	EXAM ROOM	From RT.004	128.00
11.1.009	148	EXAM ROOM	From RT.004	128.00
11.1.012	146	EXAM ROOM	From RT.004	128.00
11.1.013	145	EXAM ROOM	From RT.004	128.00
11.1.024	163	EXAM ROOM	From RT.004	128.00
11.1.025	164	EXAM ROOM	From RT.004	128.00
11.1.032	159	EXAM ROOM	From RT.004	128.00
11.2.001	131	EXAM ROOM	From RT.004	128.00
11.2.004	128	EXAM ROOM	From RT.004	128.00
11.2.007	126	EXAM ROOM	From RT.004	128.00
11.2.008	124	EXAM ROOM	From RT.004	128.00
11.2.009	123	EXAM ROOM	From RT.004	128.00
11.2.011	121	EXAM ROOM	From RT.004	128.00
11.2.012	119	EXAM ROOM	From RT.004	128.00
11.2.013	125	EXAM ROOM	From RT.004	128.00
11.2.016	114	EXAM ROOM	From RT.004	128.00
11.2.017	112	EXAM ROOM	From RT.004	128.00
11.2.018	111	EXAM ROOM	From RT.004	128.00
11.2.026	130	EXAM ROOM	From RT.004	128.00
11.2.029	117	EXAM ROOM	From RT.004	128.00
14.1.002	283	EXAM ROOM	From RT.004	128.00
14.1.003	284	EXAM ROOM	From RT.004	128.00
14.1.004	287	EXAM ROOM	From RT.004	128.00
14.1.005	289	EXAM ROOM	From RT.004	128.00
14.1.007	291	EXAM ROOM	From RT.004	128.00
14.1.008	292	EXAM ROOM	From RT.004	128.00
14.1.009	294	EXAM ROOM	From RT.004	128.00
14.1.012	297	EXAM ROOM	From RT.004	128.00
14.1.013	298	EXAM ROOM	From RT.004	128.00
14.1.018	279	EXAM ROOM	From RT.004	128.00
14.1.019	280	EXAM ROOM	From RT.004	128.00
14.1.020	281	EXAM ROOM	From RT.004	128.00
14.2.003	272	EXAM ROOM	From RT.004	128.00
14.2.004	271	EXAM ROOM	From RT.004	128.00
14.2.006	267	EXAM ROOM	From RT.004	128.00
14.2.007	264	EXAM ROOM	From RT.004	128.00
14.2.008	263	EXAM ROOM	From RT.004	128.00
14.2.010	261	EXAM ROOM	From RT.004	128.00
14.2.011	257	EXAM ROOM	From RT.004	128.00
14.2.012	256	EXAM ROOM	From RT.004	128.00
14.2.013	254	EXAM ROOM	From RT.004	128.00
14.2.015	252	EXAM ROOM	From RT.004	128.00
14.2.016	251	EXAM ROOM	From RT.004	128.00
14.2.017	250	EXAM ROOM	From RT.004	128.00





Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.004

Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
14.3.002		EXAM ROOM	From RT.004	128.00
14.3.003		EXAM ROOM	From RT.004	128.00
14.3.004		EXAM ROOM	From RT.004	128.00
14.3.005		EXAM ROOM	From RT.004	128.00
16.008	175	EXAM ROOM	From RT.004	128.00
16.009	173	EXAM ROOM	From RT.004	128.00
16.010	172	EXAM ROOM	From RT.004	128.00
16.011	177	EXAM ROOM	From RT.004	128.00
16.012	179	EXAM ROOM	From RT.004	128.00
16.013	181	EXAM ROOM	From RT.004	128.00
16.014	183	EXAM ROOM	From RT.004	128.00
16.016	33.1.133	EXAM ROOM	From RT.004	128.00
16.017	186	EXAM ROOM	From RT.004	128.00
16.018	33.1.132	EXAM ROOM	From RT.004	128.00
16.021	192	EXAM ROOM	From RT.004	128.00
16.031		EXAM ROOM	From RT.004	128.00
17.013	235	EXAM ROOM	From RT.004	128.00
17.014	234	EXAM ROOM	From RT.004	128.00
17.015	237	EXAM ROOM	From RT.004	128.00
17.017	239	EXAM ROOM	From RT.004	128.00
17.018	241	EXAM ROOM	From RT.004	128.00
17.019	242	EXAM ROOM	From RT.004	128.00
17.027		EXAM ROOM	From RT.004	128.00
17.032	228	EXAM ROOM	From RT.004	128.00
17.034		EXAM ROOM	From RT.004	128.00
40.021	232	EXAM ROOM	From RT.004	128.00
40.022	230	EXAM ROOM	From RT.004	128.00
40.034	223	EXAM ROOM	From RT.004	128.00
40.056	221	EXAM ROOM	From RT.004	128.00
40.057	220	EXAM ROOM	From RT.004	128.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.005

Name	DENTAL TREATMENT
Last modified	Harper, Espy, 9/7/2020 2:17 PM

Details	Groups / Classifications / Status
Programmed Area	128.00
Description	Operatory
Space Type	S-CLINIC

General Requirements	
Occupancy, maximum	3

Architectural		
Wall Blocking	<input checked="" type="checkbox"/>	Exam Light
Ceiling mounted equipment	<input checked="" type="checkbox"/>	
Radiation Protection	<input checked="" type="checkbox"/>	
Length (Min.)	11.5	
	feet	
Width (Min.)	10.5	
	feet	

Access				
Glass in doors	<input checked="" type="checkbox"/>	Translucent	30 W in.	54 H in.
Sliding doors	<input checked="" type="checkbox"/>	Wood		

Mechanical			
Temperature summer	<input checked="" type="checkbox"/>	Min. day 70	Max. day 75
Temperature winter	<input checked="" type="checkbox"/>	Min. night 70	Min. day 75
Ventilation			
Air moisture	<input checked="" type="checkbox"/>	20 RH (%)	60 Fluctuation
Air pressure	<input checked="" type="checkbox"/>	Positive	
Other			
Min. Air Changes/Hr. = 6			

Plumbing			
Sink/Basin	<input checked="" type="checkbox"/>	Qty. 2	Material Solid Surface
Sink Faucet/Handle		Faucet Type Gooseneck	Handle Type Wrist & Foot Control
Water supply - cold water	<input checked="" type="checkbox"/>		
Water supply - hot water	<input checked="" type="checkbox"/>		
Medical compressed air	<input checked="" type="checkbox"/>	Dental Air	
Oxygen	<input checked="" type="checkbox"/>		
Vacuum	<input checked="" type="checkbox"/>	Dental Vacuum	
Natural Gas	<input checked="" type="checkbox"/>		
Other	<input checked="" type="checkbox"/>	Sanitary Vent	

Electrical		
Normal supply - single outlets	<input checked="" type="checkbox"/>	As shown and required by code
Occupancy/Vacancy Sensor	<input checked="" type="checkbox"/>	
Other	<input checked="" type="checkbox"/>	In-Use Light





Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.005

Communications

Telephone

☒

Sick signal

☒

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.30.001	LUXURY VINYL TILE	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0

Equipment

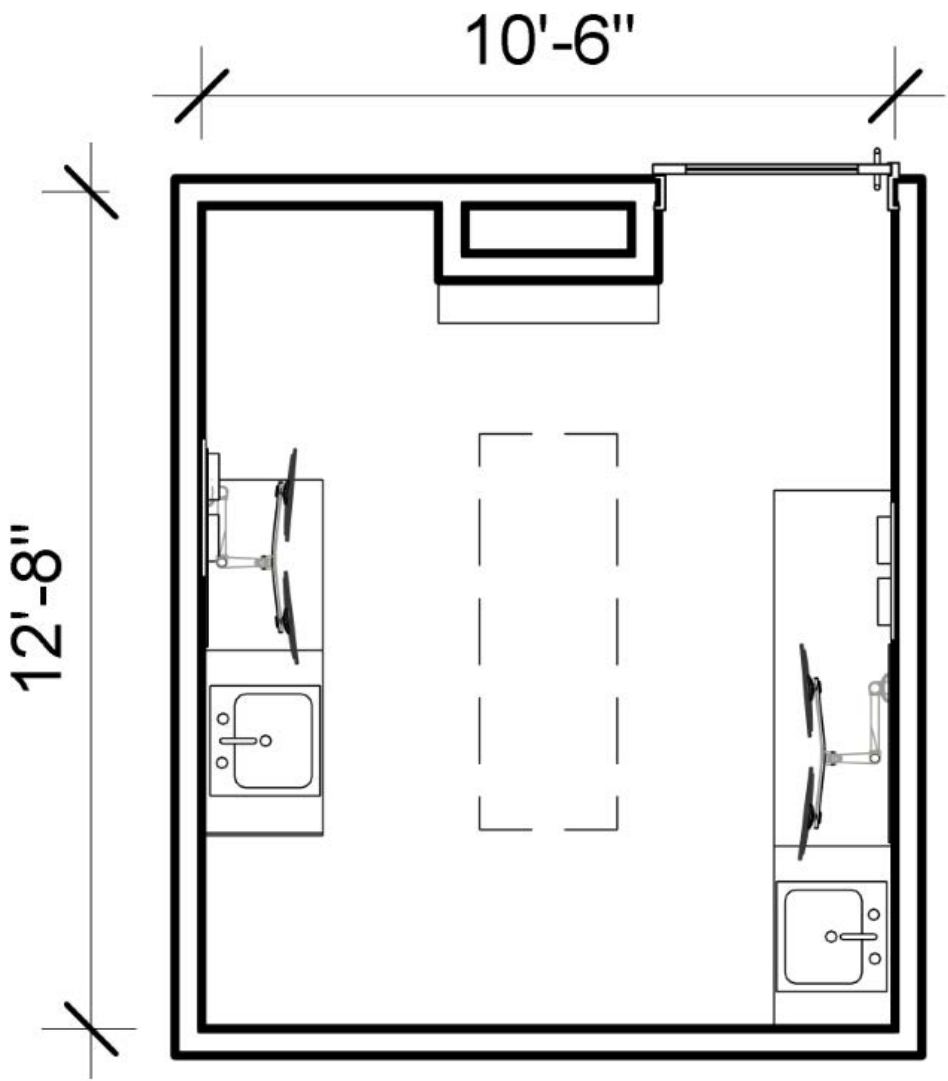
Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.004	CLOCK	0	EQP	1	1	0	0
E1040.20.005	PC	0	EQP	1	1	0	0
E1040.20.006	PAPER TOWEL DISPENSER	0	EQP	1	1	0	0
E1040.20.007	SOAP DISPENSER	0	EQP	1	1	0	0
E1040.20.010	WASTE RECEPTACLE	0	EQP	1	1	0	0
E1040.20.014	SHARPS	0	EQP	1	1	0	0
E1040.20.016	GLOVE DISPENSER	0	EQP	1	1	0	0
E1040.20.027	APRON RACK	0	EQP	1	1	0	0
E1040.20.028	COAT HOOK	0	EQP	2	2	0	0
E1040.20.039	RESIN CURRING UNIT	0	EQP	1	1	0	0
E1040.20.040	DENTAL LIGHT, CEILING	0	EQP	1	1	0	0
E1040.20.041	AMALGAMATOR	0	EQP	1	1	0	0
E1040.20.042	STOOL, DENTAL	0	EQP	2	2	0	0
E1040.20.043	RADIOGRAPHIC UNIT, DENTAL	0	EQP	1	1	0	0
E1040.20.044	DENTAL CHAIR	0	EQP	1	1	0	0



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.005



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
15.009	210	DENTAL TREATMENT	From RT.005	128.00
15.011	209	DENTAL TREATMENT	From RT.005	128.00
15.012	207B	DENTAL TREATMENT	From RT.005	128.00
15.013	207D	DENTAL TREATMENT	From RT.005	128.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.005

Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
15.014	207C	DENTAL TREATMENT	From RT.005	128.00
15.015	207A	DENTAL TREATMENT	From RT.005	128.00
15.016	206B	DENTAL TREATMENT	From RT.005	128.00
15.017	206D	DENTAL TREATMENT	From RT.005	128.00
15.018	206C	DENTAL TREATMENT	From RT.005	128.00
15.019	206A	DENTAL TREATMENT	From RT.005	128.00
15.028		DENTAL TREATMENT	From RT.005	128.00
15.029		DENTAL TREATMENT	From RT.005	128.00
15.030		DENTAL TREATMENT	From RT.005	128.00
15.031		DENTAL TREATMENT	From RT.005	128.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.006

Name	DENTAL XRAY			
Last modified	Harper, Espy, 6/1/2020 2:10 PM			

Details		Groups / Classifications / Status		
Programmed Area	80.00			
Description				
Space Type	S-CLINIC			

Architectural

Wall Blocking	<input checked="" type="checkbox"/>	at Apron Rack		
Radiation Protection	<input checked="" type="checkbox"/>	Lead Lined		
Length (Min.)	10 feet			
Width (Min.)	8 feet			
Height between floors and suspended ceilings	9 feet			

Access

Doors/Opening	1	4 W ft.	7 H ft.	
No window	<input checked="" type="checkbox"/>	(internal window only)	Other	<input checked="" type="checkbox"/> Lead lined as determined by physicist
Operable	N			

Mechanical

Ventilation

Air moisture	<input checked="" type="checkbox"/>	60% Cooling, 20% Heating, 2% min. outside air		
Air pressure	<input checked="" type="checkbox"/>	Positive		
Clean air	<input checked="" type="checkbox"/>	6 cfu	min. air changes/hour	

Plumbing

Sink/Basin	<input checked="" type="checkbox"/>	Qty. 1, Wall Mounted	Material Vitreous China	
Sink Faucet/Handle		Faucet Type Gooseneck	Handle Type Wrist Blade	
Sink Size		15 W in.	10 L in.	7 D in.
Water supply - cold water	<input checked="" type="checkbox"/>			
Water supply - hot water	<input checked="" type="checkbox"/>			

Electrical

Occupancy/Vacancy Sensor	<input checked="" type="checkbox"/>			
Color temperature	<input checked="" type="checkbox"/>	3,500 K		
Other	<input checked="" type="checkbox"/>	In-use light		

Communications

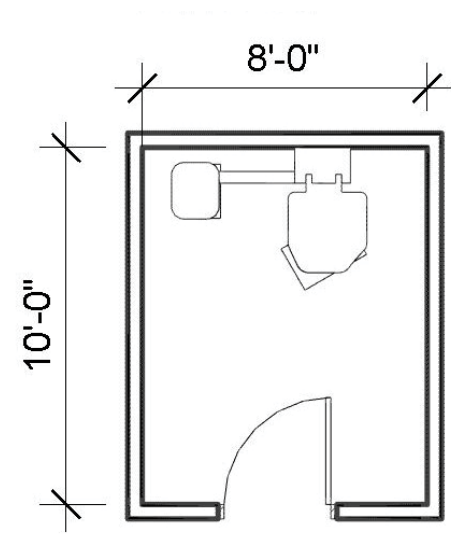
Data, standard	<input checked="" type="checkbox"/>			
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Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.006



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
15.006	211	DENTAL X-RAY, PAN X-RAY	From RT.006	80.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.008

Name	CLINIC MINI LAB
Last modified	Harper, Espy, 9/7/2020 2:19 PM

Details	Groups / Classifications / Status
Programmed Area	70.00
Description	
Space Type	S-CLINIC

General Requirements
Description of activities and functions
Point of Care Testing work area

Access		
Openings without thresholds	<input checked="" type="checkbox"/>	36" Opening

Plumbing			
Sink/Basin	<input checked="" type="checkbox"/>	Material Stainless Steel	
Sink Faucet/Handle		Faucet Type Gooseneck	Handle Type Wrist Blades
Eyewash Station	<input checked="" type="checkbox"/>	Deck Mounted	
Water supply - cold water	<input checked="" type="checkbox"/>		
Water supply - hot water	<input checked="" type="checkbox"/>		

Electrical		
Normal supply - single outlets	<input checked="" type="checkbox"/>	Above and below counter

Communications	
Data, standard	<input checked="" type="checkbox"/>
Telephone	<input checked="" type="checkbox"/>

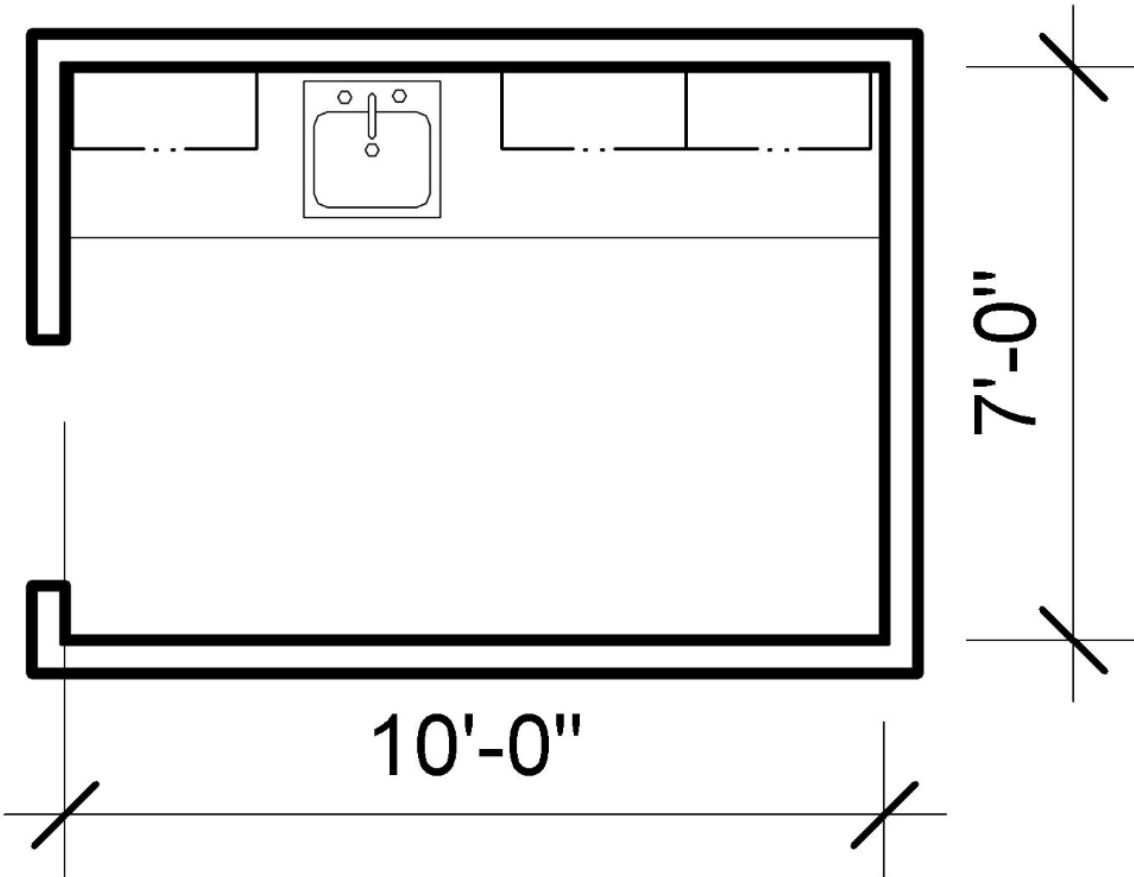
Finishes				Quantity		Budget	
Item Number	Item Name	Priority	Responsibility	Gross	Net	Unit price	Net price
Floor							
C2030.30.001	LUXURY VINYL TILE	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.008



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
11.1.044		P.O.C. TESTING	From RT.008	90.00
11.1.045		P.O.C. TESTING	From RT.008	90.00
14.1.024	285	P.O.C. TESTING	From RT.008	70.00
14.2.024	255	P.O.C. TESTING	From RT.008	70.00
15.007	211A	LABORATORY	From RT.008	70.00
16.044		P.O.C. TESTING	From RT.008	70.00
23.024	G08	P.O.C. TESTING, LAB	From RT.008	70.00
23.082	G08 (Copy)	P.O.C. TESTING, LAB	From RT.008	70.00
23.083	G08 (Copy 2)	P.O.C. TESTING, LAB	From RT.008	70.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.009

Name	CLINIC CLEAN SUPPLY		
Last modified	Harper, Espy, 3/11/2020 12:34 PM		

Details		Groups / Classifications / Status	
Programmed Area	100.00		
Description			
Space Type	S-CLINIC		

Access			
Doors/Openings 1	Wood	3 W ft.	7 H ft.
Card reader/access control	<input checked="" type="checkbox"/>		
No window	<input checked="" type="checkbox"/>		

Electrical		
Normal supply - single outlets	<input checked="" type="checkbox"/>	As shown and required by code
Occupancy/Vacancy Sensor	<input checked="" type="checkbox"/>	

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.30.001	LUXURY VINYL TILE	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0

Equipment

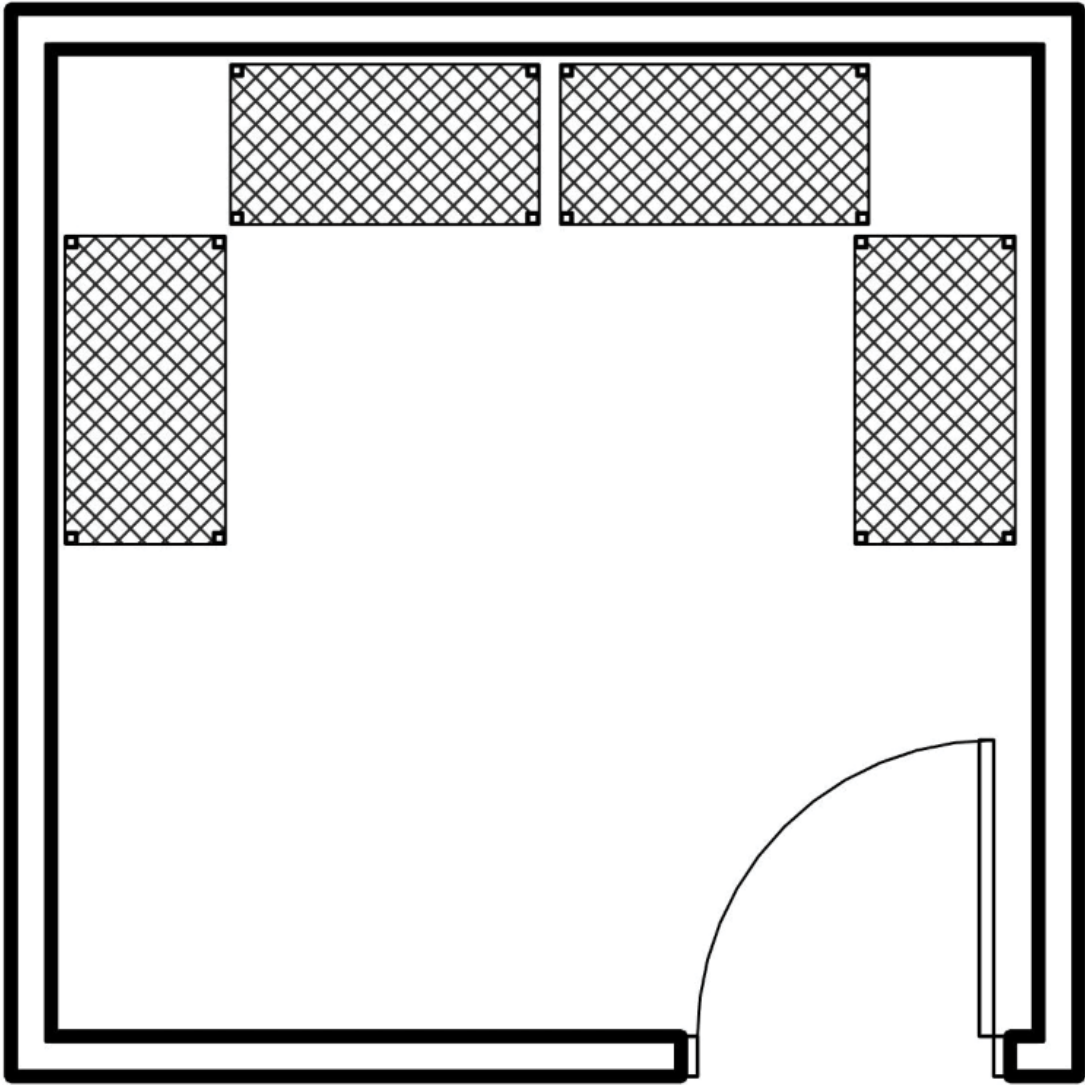
Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.038	METAL SHELVING	0	EQP	6	6	0	0



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.009



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
11.1.042	295	CLEAN SUPPLY	From RT.009	100.00
14.1.010		CLEAN SUPPLY	From RT.009	160.00
15.048		CLEAN SUPPLY, PREP	From RT.009	130.00
16.039		CLEAN SUPPLY	From RT.009	100.00
16.040		CLEAN SUPPLY	From RT.009	100.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.009

Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
17.028	14.3.006	CLEAN SUPPLY	From RT.009	100.00
23.020		CLEAN SUPPLY	From RT.009	100.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.010

Name	CLINIC MEDICATIONS
Last modified	Harper, Espy, 7/20/2020 4:09 PM

Details	Groups / Classifications / Status
Programmed Area	128.00
Description	
Space Type	S-CLINIC

General Requirements
Description of activities and functions
Medication storage and distribution work area

Access			
Doors/Openings 1	Wood	3 W ft.	7 H ft.
Glass in doors	<input checked="" type="checkbox"/> Clear	4 W in.	
Card reader/access control	<input checked="" type="checkbox"/>		

Plumbing				
Sink/Basin	<input checked="" type="checkbox"/>	Qty. Single Basin	Material Stainless Steel	
Sink Faucet/Handle		Faucet Type Gooseneck	Handle Type Wrist Blade	
Sink Size		14 W in.	11 L in.	6 D in.
Eyewash Station	<input checked="" type="checkbox"/>			
Water supply - cold water	<input checked="" type="checkbox"/>			
Water supply - hot water	<input checked="" type="checkbox"/>			

Electrical	
Normal supply - single outlets	<input checked="" type="checkbox"/>

Communications	
Data, standard	<input checked="" type="checkbox"/>

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.30.001	LUXURY VINYL TILE	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0

Equipment

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.005	PC	0	EQP	1	1	0	0
E1040.20.006	PAPER TOWEL DISPENSER	0	EQP	1	1	0	0
E1040.20.007	SOAP DISPENSER	0	EQP	1	1	0	0



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.010

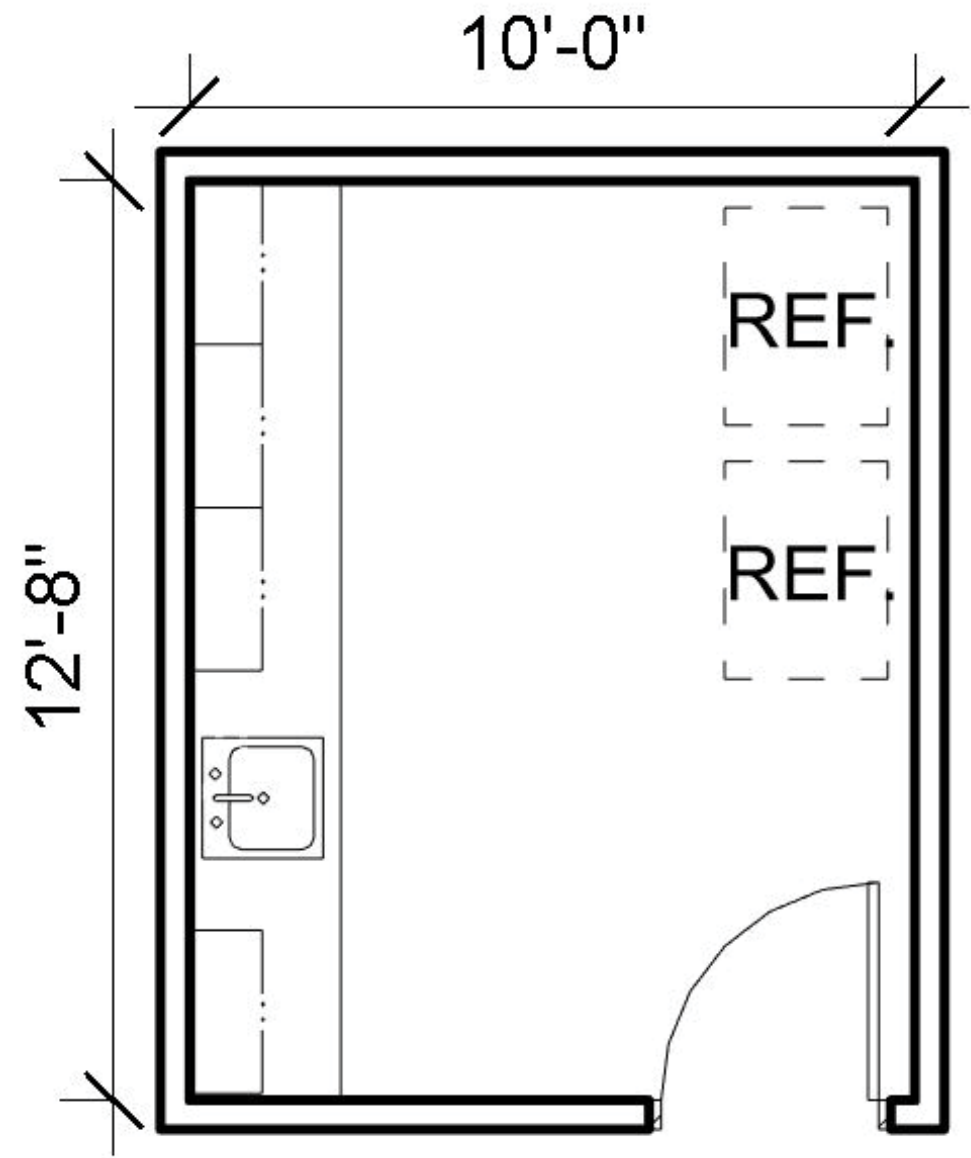
Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.010	WASTE RECEPTACLE	0	EQP	1	1	0	0
E1040.20.014	SHARPS	0	EQP	1	1	0	0
E1040.20.016	GLOVE DISPENSER	0	EQP	1	1	0	0
E1040.20.029	SANITIZER DISPENSER	0	EQP	1	1	0	0
E1040.20.037	MEDICAL REFRIGERATOR	0	EQP	1	1	0	0
E1040.20.055	MEDICAL FREEZER	0	EQP	1	1	0	0
E1040.20.056	CENTRIFUGE	0	EQP	1	1	0	0



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.010



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
14.1.045		MEDICATIONS	From RT.010	128.00
14.3.018		MEDICATIONS	From RT.010	128.00
17.008	225	MEDICATIONS, VACCINES	From RT.010	128.00
40.062	236	MEDICATIONS	From RT.010	128.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.011

Name	LACTATION CONSULT		
Last modified	Harper, Espy, 8/9/2020 6:00 PM		
Details		Groups / Classifications / Status	
Programmed Area	128.00		
Description			
Architectural			
Protection of privacy	<input checked="" type="checkbox"/>		
Access			
Doors/Openings 1	Wood, HM	3 W ft.	7 H ft.
Locking mechanism	<input checked="" type="checkbox"/> Privacy Lock		
Mechanical			
Ventilation			
Air pressure	<input checked="" type="checkbox"/>	See Notes	
Other			
A percentage of rooms should provide the ability to switch to negative pressure if needed.			
Plumbing			
Sink/Basin	<input checked="" type="checkbox"/>	Qty. 1	Material Solid Surface
Sink Faucet/Handle	<input checked="" type="checkbox"/>	Faucet Type Gooseneck	Handle Type Wrist Blade
Water supply - cold water	<input checked="" type="checkbox"/>		
Water supply - hot water	<input checked="" type="checkbox"/>		
Electrical			
Normal supply - single outlets	<input checked="" type="checkbox"/>	As shown and required by code	
Light dimmer	<input checked="" type="checkbox"/>		
Communications			
Data, standard	<input checked="" type="checkbox"/>		

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.30.001	LUXURY VINYL TILE	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0

Furniture



Advanced Planning
Room Data Sheets

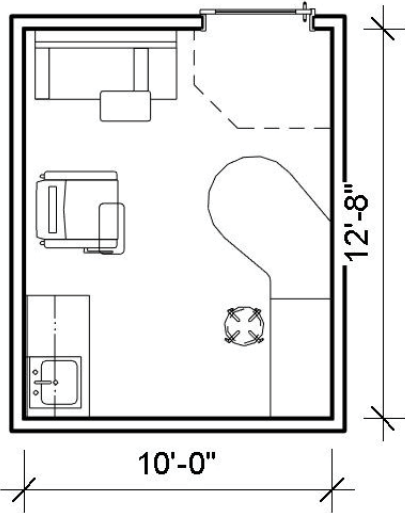
Wake County Public Health

Code: RT.011

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E2050.30.003	DESK	0	FURN	1	1	0	0
E2050.30.009	RECLINER	0	FURN	1	1	0	0

Equipment

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.004	CLOCK	0	EQP	1	1	0	0
E1040.20.006	PAPER TOWEL DISPENSER	0	EQP	1	1	0	0
E1040.20.007	SOAP DISPENSER	0	EQP	1	1	0	0
E1040.20.010	WASTE RECEPTACLE	0	EQP	1	1	0	0
E1040.20.016	GLOVE DISPENSER	0	EQP	1	1	0	0
E1040.20.028	COAT HOOK	0	EQP	1	1	0	0
E1040.20.029	SANITIZER DISPENSER	0	EQP	1	1	0	0



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
14.1.042		LACTATION/CONSULT	From RT.011	128.00
14.1.043		LACTATION/CONSULT	From RT.011	128.00
23.022	G19	CONSULTATION, LACTATION	From RT.011	128.00
23.035	G19A	CONSULTATION, LACTATION	From RT.011	128.00
23.036	G19B	CONSULTATION, LACTATION	From RT.011	128.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.012

Name	CLINIC CARE TEAM AREA
Last modified	Harper, Espy, 2/3/2020 4:32 PM

Details	Groups / Classifications / Status
Programmed Area	0.00
Description	
Space Type	S-CLINIC

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.75.002	CARPET	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0

Furniture

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E2050.30.006	STORAGE CABINET	0	FURN	12	12	0	0
<i>Note: Per plan</i>							
E2050.30.010	TASK CHAIR	0	FURN	12	12	0	0
<i>Note: Per plan</i>							

Equipment

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.005	PC	0	EQP	12	12	0	0
<i>Note: Per plan</i>							
E1040.20.021	PHONE	0	EQP	12	12	0	0
<i>Note: Per plan</i>							
E1040.20.022	SCANNER	0	EQP	3	3	0	0
E1040.20.050	PRINTER	0	EQP	4	4	0	0

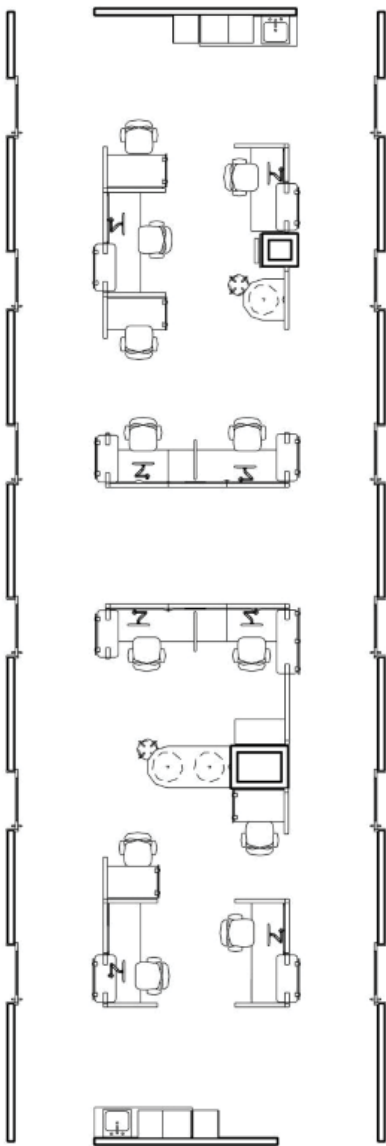




Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.012



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
11.1.039		CARE TEAM AREA	From RT.012	300.00
11.1.040		CARE TEAM AREA	From RT.012	300.00
14.1.006	290	CARE TEAM AREA	From RT.012	500.00
14.2.022	260	CARE TEAM AREA	From RT.012	500.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.012

Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
15.050		CARE TEAM AREA	From RT.012	350.00
16.037		CARE TEAM AREA	From RT.012	390.00
16.038		CARE TEAM AREA	From RT.012	390.00
17.012	233	CARE TEAM AREA	From RT.012	330.00
40.059	215A	CARE TEAM AREA	From RT.012	300.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.014

Name	CLINIC STORAGE		
Last modified	Harper, Espy, 3/9/2020 4:45 PM		
Details		Groups / Classifications / Status	
Programmed Area	0.00		
Description			
Space Type	S-CLINIC		
Architectural			
Wall Blocking	<input checked="" type="checkbox"/>		
Access			
Doors/Openings 1	Wood	3 W ft.	7 H ft.
Locking mechanism	<input checked="" type="checkbox"/>		
No window	<input checked="" type="checkbox"/>		
Electrical			
Normal supply - single outlets	<input checked="" type="checkbox"/> As shown and required by code		
Occupancy/Vacancy Sensor	<input checked="" type="checkbox"/>		

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.30.001	LUXURY VINYL TILE	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0

Equipment

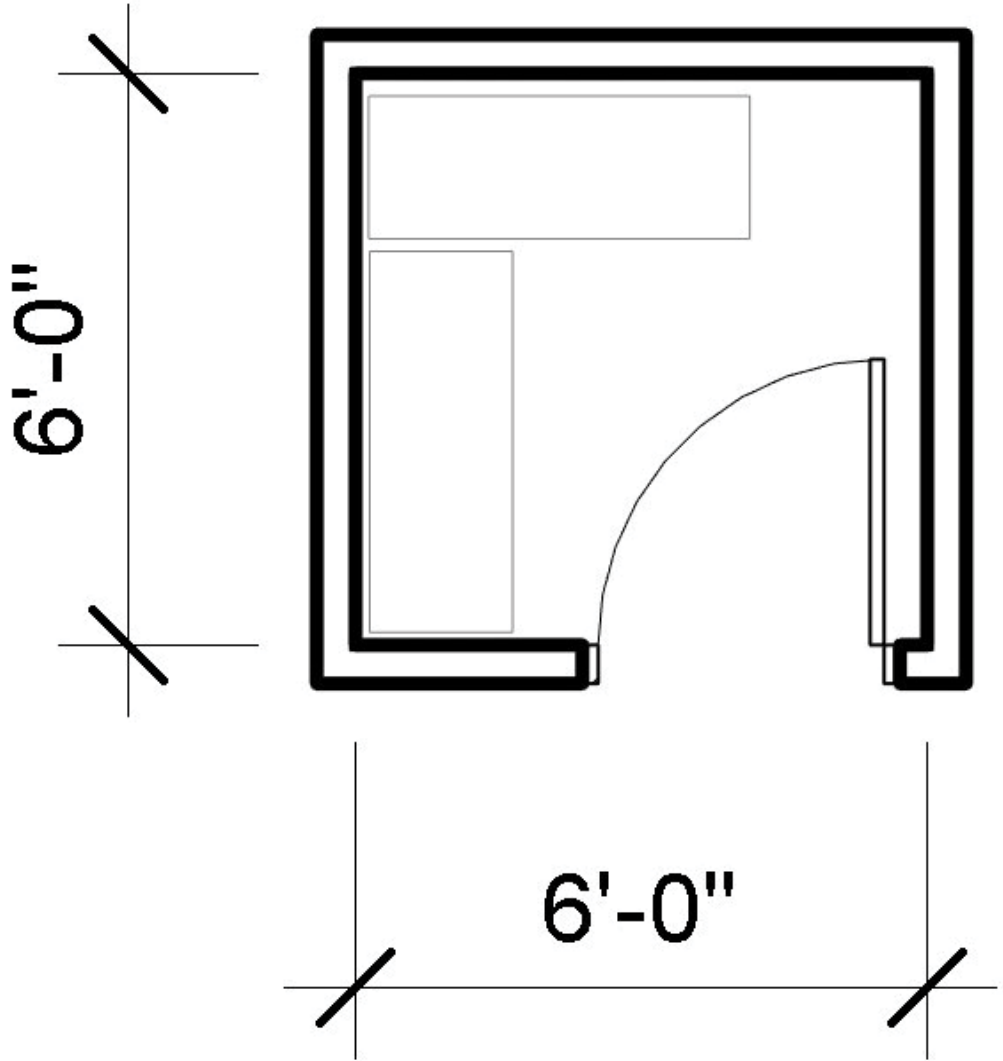
Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.038	METAL SHELVING	0	EQP	1	1	0	0



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.014



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
02.021	363	STORAGE, SUPPLY	From RT.014	70.00
02.039	332	STORAGE, SUPPLY	From RT.014	70.00
05.004		STORAGE	From RT.014	30.00
23.078	331	STORAGE	From RT.014	96.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.015

Name	CLINIC PROCEDURE
Last modified	Harper, Espy, 9/7/2020 2:52 PM

Details	Groups / Classifications / Status
Programmed Area	150.00
Description	
Space Type	S-CLINIC

Architectural			
Ceiling mounted equipment	<input checked="" type="checkbox"/>	Procedure Light (if required)	
Length (Min.)	<input type="text"/>	12 feet	
Width (Min.)	<input type="text"/>	12.5 feet	
Height between floors and suspended ceilings	<input type="text"/>	9 feet	

Access			
Doors/Openings 1	Wood	3.6 W ft.	7 H ft.

Mechanical	
Possibility to overrule temperature	<input checked="" type="checkbox"/>

Plumbing			
Sink/Basin	<input checked="" type="checkbox"/>	Qty. 1	Material Stainless Steel
Sink Faucet/Handle	<input type="text"/>	Faucet Type Gooseneck	Handle Type Wrist Blade
Sink Size	<input type="text"/>	14 W in.	11 L in. 6 D in.
Water supply - cold water	<input checked="" type="checkbox"/>		
Water supply - hot water	<input checked="" type="checkbox"/>		

Electrical	
Normal supply - single outlets	<input checked="" type="checkbox"/>
Uninterrupted Power Supply	<input checked="" type="checkbox"/> as required by equipment
Light dimmer	<input checked="" type="checkbox"/>
Task Lighting	<input checked="" type="checkbox"/> under cabinet
Other	<input checked="" type="checkbox"/> Ceiling mounted light as required per clinic

Communications	
Data, standard	<input checked="" type="checkbox"/>

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.30.001	LUXURY VINYL TILE	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.015

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0

Furniture

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E2050.30.008	VISITOR CHAIR	0	FURN	1	1	0	0

Equipment

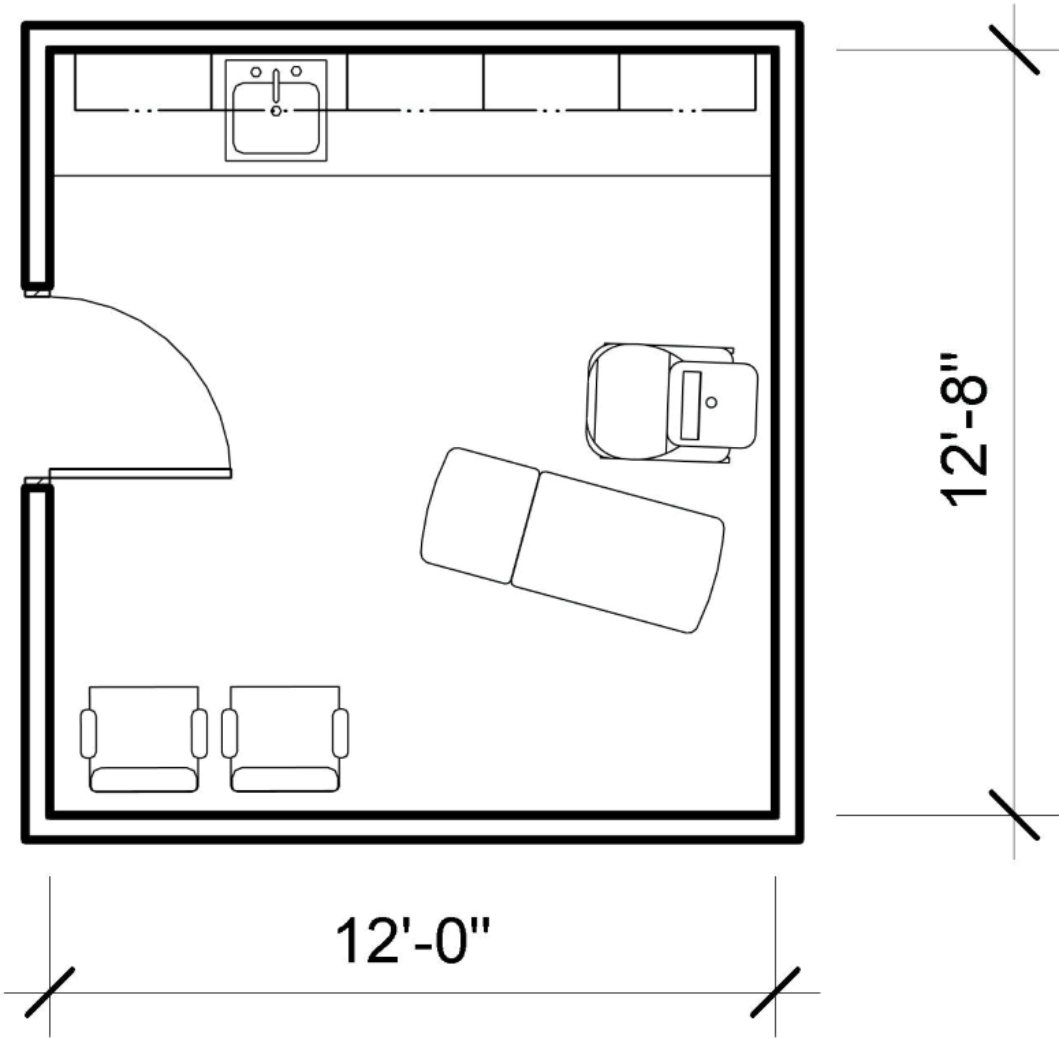
Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.004	CLOCK	0	EQP	1	1	0	0
E1040.20.005	PC	0	EQP	1	1	0	0
E1040.20.006	PAPER TOWEL DISPENSER	0	EQP	1	1	0	0
E1040.20.007	SOAP DISPENSER	0	EQP	1	1	0	0
E1040.20.008	Portable Exam Light	0	EQP	1	1	0	0
E1040.20.009	OTOSCOPE-OPHTHALMASCOPE	0	EQP	1	1	0	0
E1040.20.010	WASTE RECEPTACLE	0	EQP	1	1	0	0
E1040.20.012	STOOL	0	EQP	1	1	0	0
E1040.20.013	EXAM TABLE	0	EQP	1	1	0	0
E1040.20.014	SHARPS	0	EQP	1	1	0	0
E1040.20.015	CUBICLE CURTAIN	0	EQP	1	1	0	0
E1040.20.016	GLOVE DISPENSER	0	EQP	1	1	0	0
E1040.20.021	PHONE	0	EQP	1	1	0	0
E1040.20.028	COAT HOOK	0	EQP	1	1	0	0
E1040.20.029	SANITIZER DISPENSER	0	EQP	1	1	0	0
E1040.20.031	SOILED HAMPER	0	EQP	1	1	0	0
E1040.20.052	ULTRASOUND MACHINE	0	EQP	1	1	0	0
E1040.20.053	STRETCHER	0	EQP	1	1	0	0



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.015



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
11.1.030	158	PROCEDURE/TREATMENT	From RT.015	150.00
14.2.043		PROCEDURE/TREATMENT	From RT.015	150.00
16.036		PROCEDURE/TREATMENT	From RT.015	150.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.016

Name	CLINIC PATIENT TLT						
Last modified	Harper, Espy, 7/20/2020 5:57 PM						
Details				Groups / Classifications / Status			
Programmed Area	54.00						
Description							
Space Type	S-CLINIC						
Architectural							
Other							
Height between floors and suspended ceilings	ADA 9 feet						
Access							
Doors/Openings 1	Wood		3 W ft.	7 H ft.			
Locking mechanism	<input checked="" type="checkbox"/>	Privacy Lock					
Mechanical							
Exhaust	<input checked="" type="checkbox"/>						
Plumbing							
Sink/Basin	<input checked="" type="checkbox"/>	Qty. 1			Material China		
Sink Faucet/Handle		Faucet Type Gooseneck			Handle Type Sensor		
Sink Size		11.5 W in.	16 L in.	5 D in.			
Toilet	<input checked="" type="checkbox"/>	Qty. 1			Mounting Floor		
Water supply - cold water	<input checked="" type="checkbox"/>						
Water supply - hot water	<input checked="" type="checkbox"/>						
Floor drain	<input checked="" type="checkbox"/>						
Electrical							
Normal supply - single outlets	<input checked="" type="checkbox"/>						
Movement operated	<input checked="" type="checkbox"/>						
Communications							
Sick signal	<input checked="" type="checkbox"/>	Pull String					

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.30.001	LUXURY VINYL TILE	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
C2010.10.001	TILE	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.016

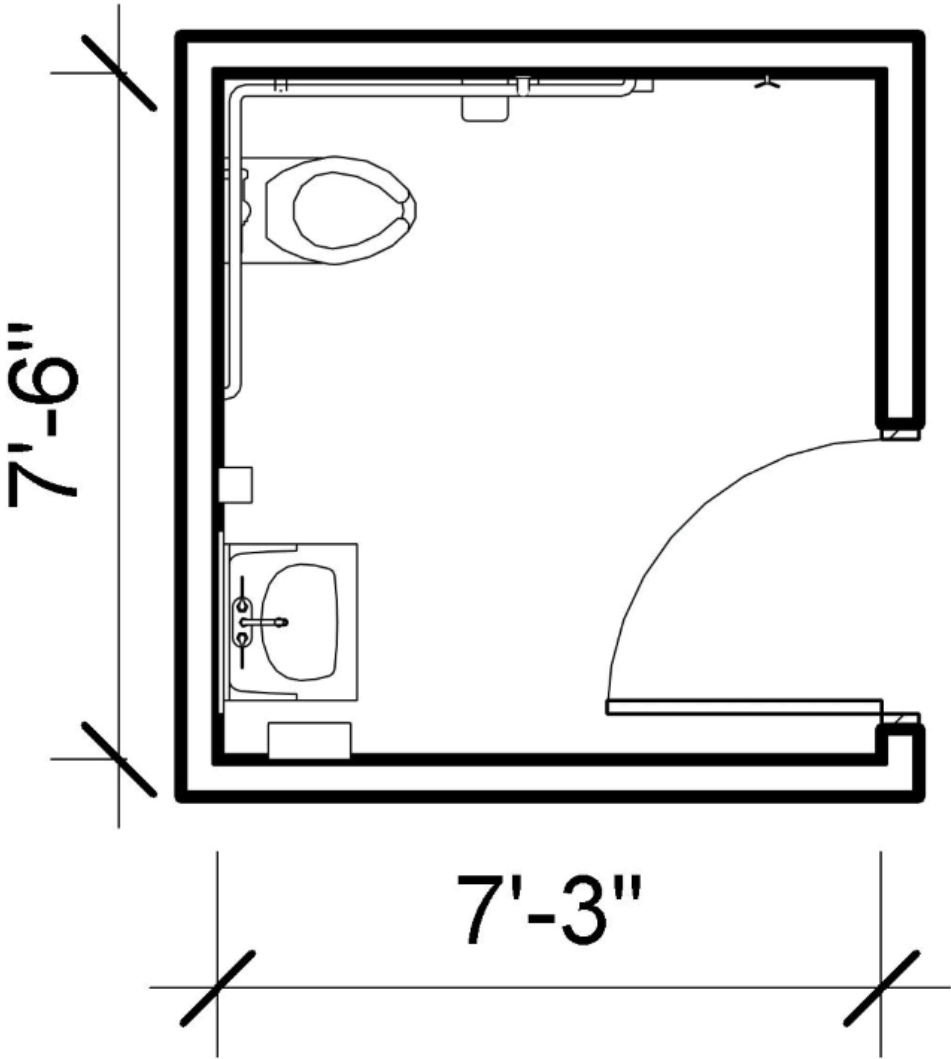
Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.002	MIRROR	0	EQP	1	1	0	0
E1040.20.006	PAPER TOWEL DISPENSER	0	EQP	1	1	0	0
E1040.20.007	SOAP DISPENSER	0	EQP	1	1	0	0
E1040.20.010	WASTE RECEPTACLE	0	EQP	1	1	0	0
E1040.20.023	TOILET PAPER DISPENSER	0	EQP	1	1	0	0
E1040.20.028	COAT HOOK	0	EQP	1	1	0	0



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.016



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
11.1.038		PATIENT TOILET	From RT.016	54.00
11.2.033		PATIENT TOILET	From RT.016	54.00
11.2.034		PATIENT TOILET	From RT.016	54.00
14.2.040		PATIENT TOILET	From RT.016	54.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.016

Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
14.2.041	215C	PATIENT TOILET	From RT.016	54.00
14.2.042		PATIENT TOILET	From RT.016	54.00
14.3.015		PATIENT TOILET	From RT.016	54.00
14.3.016		PATIENT TOILET	From RT.016	54.00
15.051		PATIENT TOILET	From RT.016	54.00
15.052		PATIENT TOILET	From RT.016	54.00
15.053		PATIENT TOILET	From RT.016	54.00
16.042		PATIENT TOILET	From RT.016	54.00
16.043		PATIENT TOILET	From RT.016	54.00
17.031		PATIENT TOILET	From RT.016	54.00
22.011		SPECIMEN TOILET	From RT.016	54.00
22.012		STAFF TOILET	From RT.016	54.00
23.084		PATIENT TOILET	From RT.016	54.00
23.085		PATIENT TOILET	From RT.016	54.00
23.086		PATIENT TOILET	From RT.016	54.00
40.060		PATIENT TOILET	From RT.016	54.00
40.061		PATIENT TOILET	From RT.016	54.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.017

Name	CLINIC BREAKROOM			
Last modified	Harper, Espy, 9/7/2020 2:58 PM			
Details		Groups / Classifications / Status		
Programmed Area	0.00			
Description				
Access				
Doors/Openings 1	Wood	3 W ft.	7 H ft.	
Card reader/access control	<input checked="" type="checkbox"/>			
Daylight Required	<input checked="" type="checkbox"/>	Outer wall		
Mechanical				
Temperature summer	<input checked="" type="checkbox"/>	Min. day 75	Max. day 75	
Temperature winter	<input checked="" type="checkbox"/>	Min. night 72	Min. day 72	
Plumbing				
Sink/Basin	<input checked="" type="checkbox"/>	Qty. Single Basin	Material Stainless Steel	
Sink Faucet/Handle	Faucet Type Gooseneck			
Water supply - cold water	<input checked="" type="checkbox"/>			
Water supply - hot water	<input checked="" type="checkbox"/>			
Electrical				
Normal supply - single outlets	<input checked="" type="checkbox"/>	As shown and required by code		
Occupancy/Vacancy Sensor	<input checked="" type="checkbox"/>			
Communications				
Data, standard	<input checked="" type="checkbox"/>	provide at seating and worktops		
Telephone	<input checked="" type="checkbox"/>			
Other	<input checked="" type="checkbox"/>	USB Outlets in Furniture		

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.30.001	LUXURY VINYL TILE	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0

Furniture

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E2050.30.012	SECTIONAL SOFA	0	FURN	1	1	0	0
E2050.30.013	48" ROUND TABLE	0	FURN	1	1	0	0





Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.017

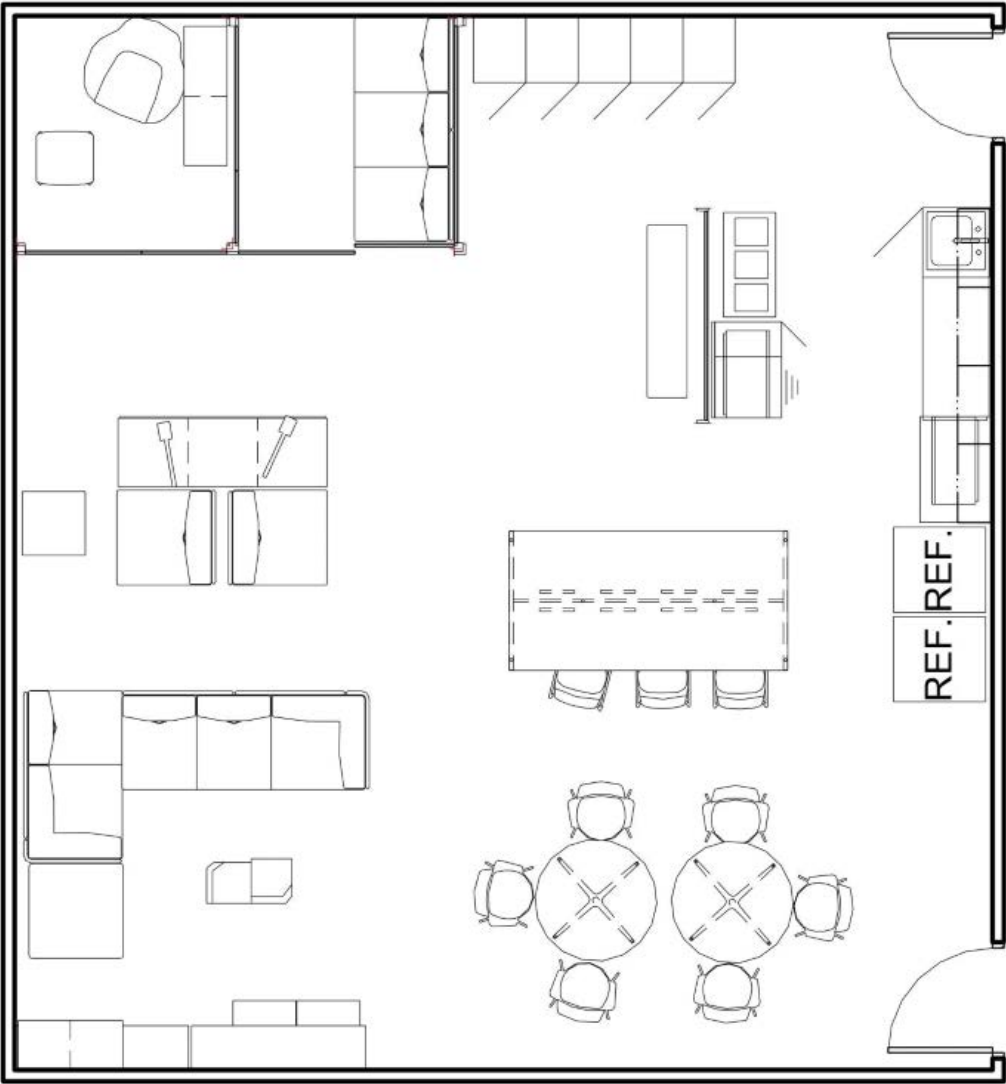
Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.006	PAPER TOWEL DISPENSER	0	EQP	1	1	0	0
E1040.20.007	SOAP DISPENSER	0	EQP	1	1	0	0
E1040.20.010	WASTE RECEPTACLE	0	EQP	2	2	0	0
E1040.20.021	PHONE	0	EQP	1	1	0	0
E1040.20.029	SANITIZER DISPENSER	0	EQP	1	1	0	0
E1040.20.045	MICROWAVE	0	EQP	2	2	0	0
E1040.20.046	REFRIDGERATOR, BREAKROOM	0	EQP	2	2	0	0
E1040.20.047	LOCKERS	0	EQP	1	1	0	0



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.017





Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.018

Name

OFFICE, DIRECTOR

Last modified

Harper, Espy, 3/9/2020 4:56 PM

Details

Groups / Classifications / Status

Programmed Area

128.00

Description

Space Type

P-OFFC

General Requirements

Occupancy, maximum

3

Architectural

Protection of privacy

☒

Access

Doors/Openings 1

Wood

3 W ft.

7 H ft.

Locking mechanism

☒

Electrical

Normal supply - single outlets

☒

As shown and required by code

Communications

Data, standard

☒

Telephone

☒

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.75.002	CARPET	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0

Furniture

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E2050.30.008	VISITOR CHAIR	0	FURN	1	1	0	0
E2050.30.010	TASK CHAIR	0	FURN	1	1	0	0

Equipment

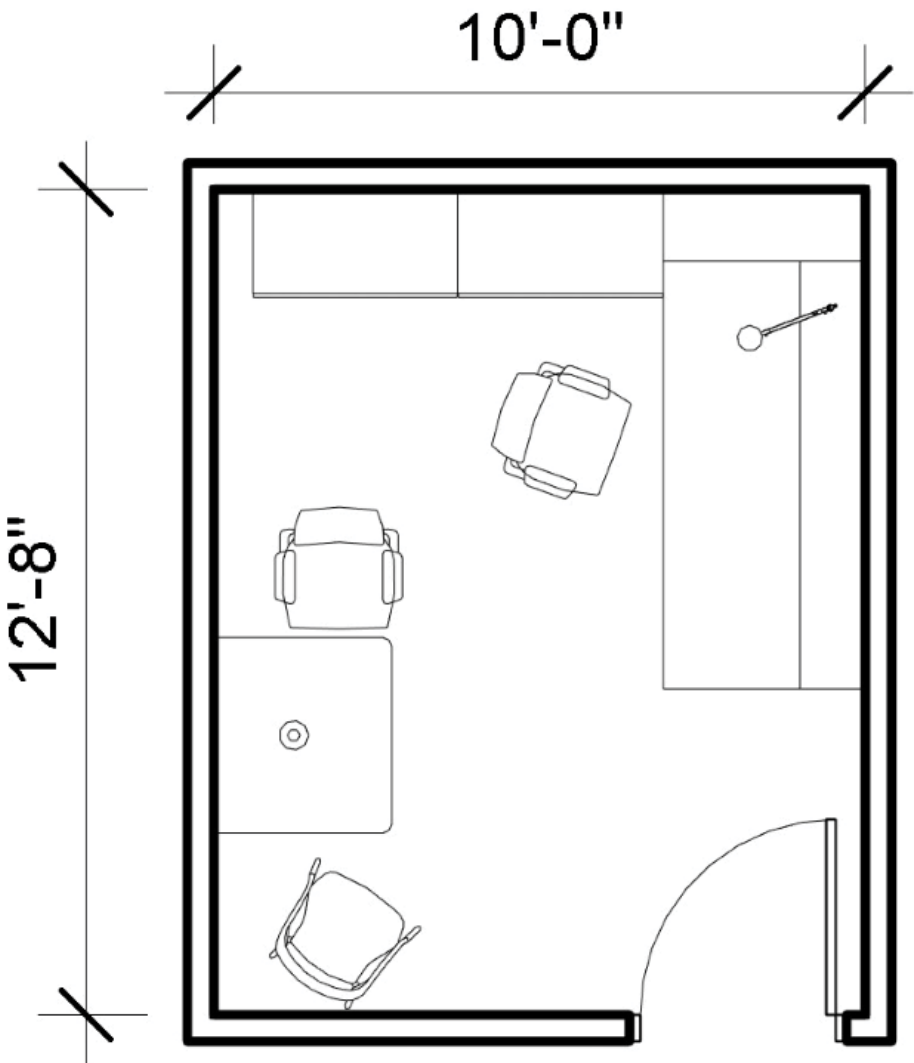
Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.005	PC	0	EQP	1	1	0	0
E1040.20.021	PHONE	0	EQP	1	1	0	0
E1040.20.028	COAT HOOK	0	EQP	1	1	0	0



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.018



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
39.004	107A	OFFICE, DIRECTOR	From RT.018	128.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.019

Name	PUBLIC TOILET, MENS		
Last modified	Harper, Espy, 9/7/2020 3:14 PM		

Details		Groups / Classifications / Status	
Programmed Area	0.00		
Description			
Space Type	X-TOILET		

Architectural

Wall Blocking ☒

Access

Doors/Openings 1 Wood 3 W ft. 7 H ft.

No window ☒

Mechanical

Exhaust ☒

Plumbing

Sink/Basin	<input checked="" type="checkbox"/>	Qty. 2 min.	Material Solid Surface/integral
Sink Faucet/Handle		Faucet Type Gooseneck	Handle Type InfraRed Sensor
Toilet	<input checked="" type="checkbox"/>	Qty. 1 min.	Mounting Floor
Water supply - cold water	<input checked="" type="checkbox"/>		
Water supply - hot water	<input checked="" type="checkbox"/>		
Other	<input checked="" type="checkbox"/>	Urinal, Fixtures as required by code	
Floor drain	<input checked="" type="checkbox"/>		

Electrical

Normal supply - single outlets ☒

Finishes

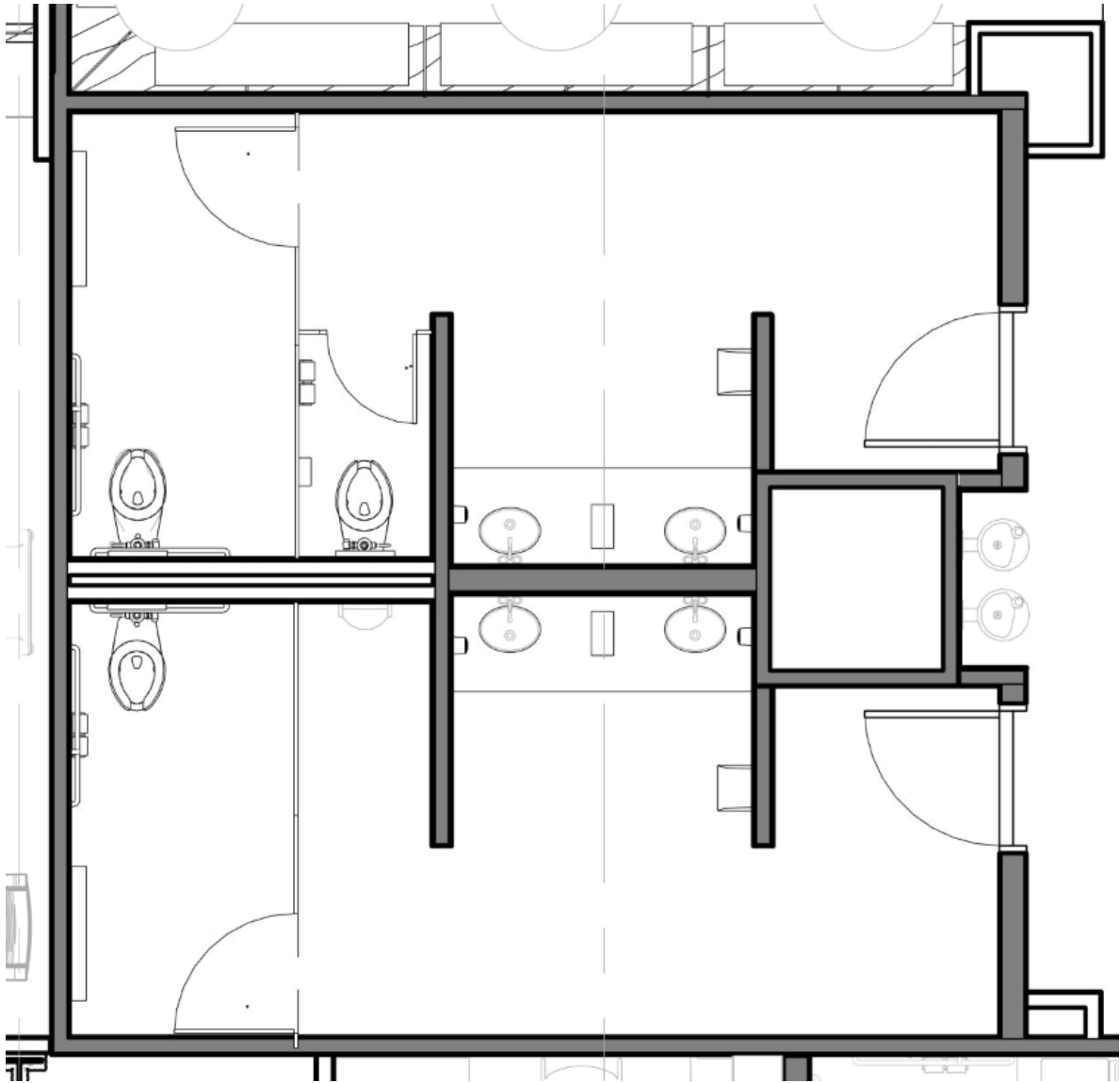
Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.20.001	TILE	0	FINISHES	1	1	0	0
Base							
C2030.20.001	TILE	0	FINISHES	1	1	0	0
Wall							
C2010.100.003	PAINT, EPOXY	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.019



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
34.002	G83B	RESTROOM - MENS	From RT.019	187.68
34.003	G33	RESTROOM - MENS	From RT.019	175.78





Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.020

Name	PUBLIC TOILET, WOMENS		
Last modified	Harper, Espy, 9/7/2020 3:14 PM		

Details		Groups / Classifications / Status	
Programmed Area	0.00		
Description			
Space Type	X-TOILET		

Architectural			
Wall Blocking	<input checked="" type="checkbox"/>		

Access			
Doors/Openings 1	Wood	3 W ft.	7 H ft.
No window	<input checked="" type="checkbox"/>		

Mechanical	
Exhaust	<input checked="" type="checkbox"/>

Plumbing			
Sink/Basin	<input checked="" type="checkbox"/>	Qty. 2 min.	Material Solid Surface/Integral
Sink Faucet/Handle		Faucet Type Gooseneck	Handle Type InfraRed
Toilet	<input checked="" type="checkbox"/>	Qty. 2 min	Mounting Floor
Water supply - cold water	<input checked="" type="checkbox"/>		
Water supply - hot water	<input checked="" type="checkbox"/>		
Floor drain	<input checked="" type="checkbox"/>		

Electrical	
Normal supply - single outlets	<input checked="" type="checkbox"/>

Finishes

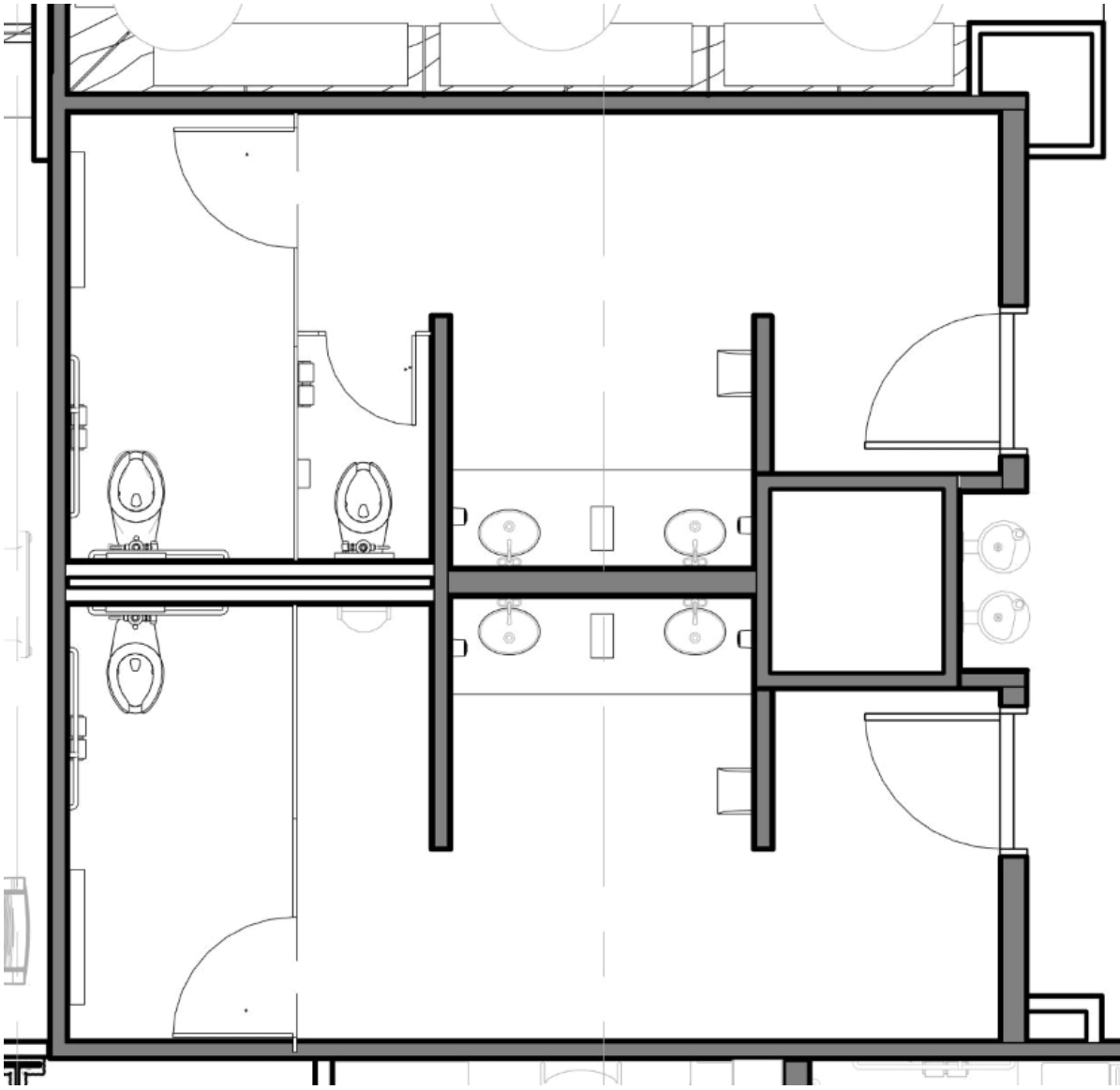
Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.20.001	TILE	0	FINISHES	1	1	0	0
Base							
C2030.20.001	TILE	0	FINISHES	1	1	0	0
Wall							
C2010.100.003	PAINT, EPOXY	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.020



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
34.001	G83A	RESTROOM - WOMENS	From RT.020	217.82
34.004	G34	RESTROOM - WOMENS	From RT.020	207.60



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.021

Name	IDF ROOM
Last modified	Harper, Espy, 5/8/2020 4:20 PM

Details	Groups / Classifications / Status
Programmed Area	0.00
Description	
Space Type	X-TELECO

General Requirements	
Description of activities and functions MDF/IDF's must be of sufficient size. BICSI rules require that an IDF serve no more than 10,000 sf of floor space. However, Wake County will permit TR's to serve more than 10,000 sf if no cable length exceeds 250 feet. IDF's should be sized to serve assignable square footage as follows: 1. Up to 5,000 sf 8' x 8' 2. 5,000 to 10,000sf 8' x 11' 3. Larger than 10,000sf 8' x 11' Because security, fire and other systems require additional space in MDF's, MDF's for Wake County Buildings should be sized to serve assignable square footage as follows: 1. up to 10,000sf 8' x 8' 2. 10,000 to 25,000sf 8' x 13' 3. 25,000 to 100,000sf 11' x 13' 4. More than 100,000sf 13' x 16' Location requirements Centrally locate per floor SF.	

Architectural	
Special/Other	Paneled with 3/4" fire retardant plywood, mounted smooth side out
Other	
Special surface requirements	Ceiling ht, min 8'-6". Light colored VCT Flooring, <input checked="" type="checkbox"/> light-colored fire retardant paint

Access	
Doors/Openings 1	3 W ft. 7 H ft.
Card reader/access control	<input checked="" type="checkbox"/>

Mechanical	
Temperature summer	<input checked="" type="checkbox"/> Min. day 64 Max. day 75
Temperature winter	<input checked="" type="checkbox"/> Min. night 64 Min. day 75
Ventilation	
Air moisture	<input checked="" type="checkbox"/> 30 RH (%) 55 Fluctuation
Air pressure	<input checked="" type="checkbox"/> Positive Pressure, 1 air change/hour
Other	
24/7 HVAC	

Electrical	
Normal supply - single outlets	<input checked="" type="checkbox"/> min. two duplex convenience outlets 18" AFF
Uninterrupted Power Supply	<input checked="" type="checkbox"/> All network equipment must be connected to UPS
Other	<input checked="" type="checkbox"/> Electrical strip , mounted to ladder rack above data racks
Lighting Level	<input checked="" type="checkbox"/> 50 Foot Candles, measured 3' above floor, on both sides of racks

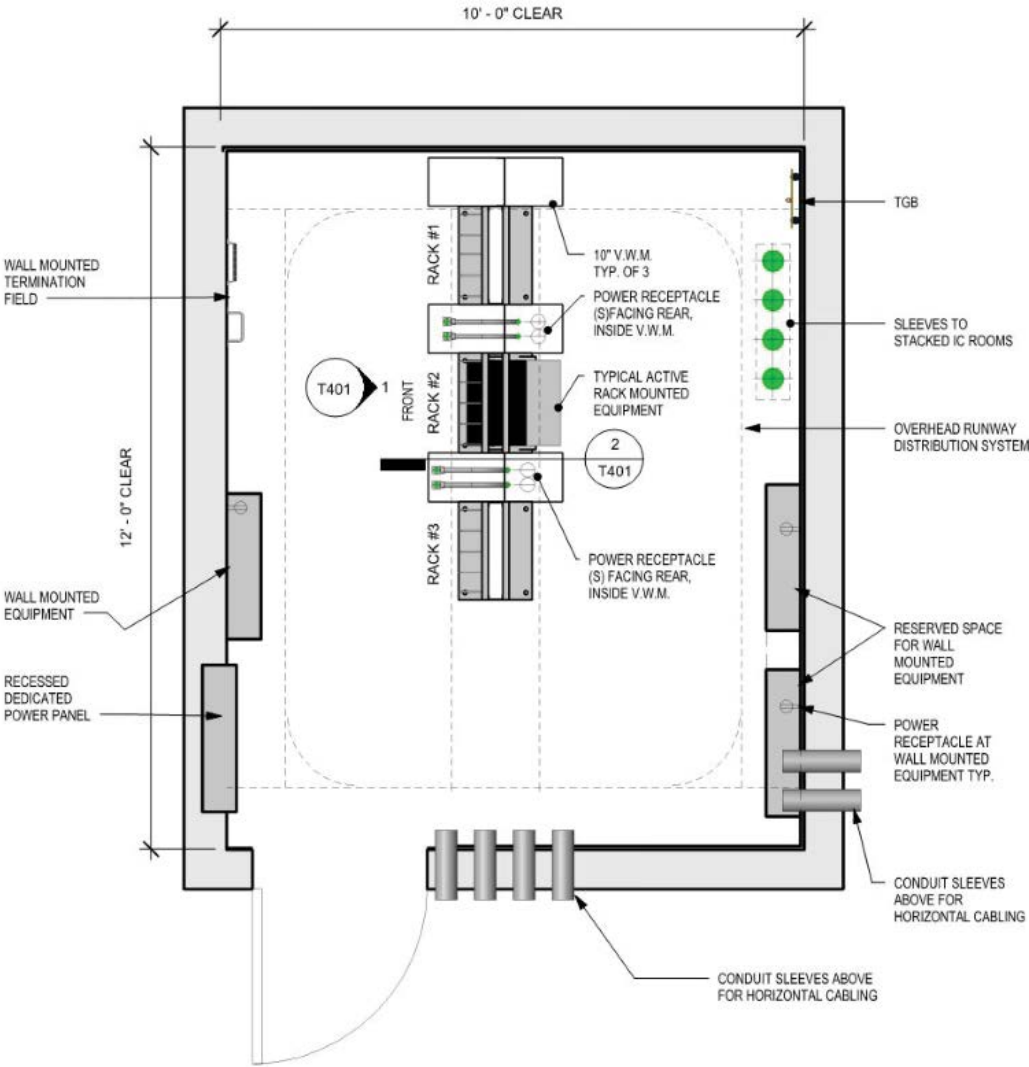


Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.021

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.50.001	VINYL CUT TILE	0	FINISHES	1	1	0	0
Wall							
C2010.100.002	PAINT, FIRE RETARDANT	0	FINISHES	1	1	0	0





Advanced Planning Room Data Sheets

Wake County Public Health

Code: RT.022

Name	MDF ROOM
Last modified	Harper, Espy, 9/7/2020 4:47 PM

Details	Groups / Classifications / Status
Programmed Area	225.00
Description	
Space Type	X-TELECO

General Requirements

Description of activities and functions

MDF/IDF's must be of sufficient size. BICSI rules require that an IDF serve no more than 10,000 sf of floor space. However, Wake County will permit TR's to serve more than 10,000 sf if no cable length exceeds 250 feet. IDF's should be sized to serve assignable square footage as follows:

1. Up to 5,000 sf 8' x 8'

2. 5,000 to 10,000sf 8' x 11'

3. Larger than 10,000sf 8' x 11'

Because security, fire and other systems require additional space in MDF's, MDF's for Wake County Buildings should be sized to serve assignable square footage as follows:

1. up to 10,000sf 8' x 8'

2. 10,000 to 25,000sf 8' x 13'

3. 25,000 to 100,000sf 11' x 13'

4. More than 100,000sf 13' x 16'

Location requirements Centrally locate per floor SF.

Architectural

Wall Blocking ☒

Special/Other Paneled with 3/4" fire retardant plywood, mounted smooth side out

Other

Ceiling ht, min 8'-6". Light colored VCT Flooring.

Special surface requirements ☒ light-colored fire retardant paint

Access

Doors/Openings 1 3 W ft. 7 H ft.

Card reader/access control ☒

Mechanical

Temperature summer ☒ Min. day 64 Max. day 75

Temperature winter ☒ Min. night 64 Min. day 75

Ventilation

Air moisture ☒ 30 RH (%) 55 Fluctuation

Air pressure ☒ Positive Pressure, 1 air change/hour

Other

24/7 HVAC

Electrical

Normal supply - single outlets ☒ min. two duplex convenience outlets 18" AFF

Uninterrupted Power Supply ☒ All network equipment must be connected to UPS

Other ☒ Electrical strip , mounted to ladder rack above data racks

Lighting Level ☒ 50 Foot Candles, measured 3' above floor, on both sides of racks

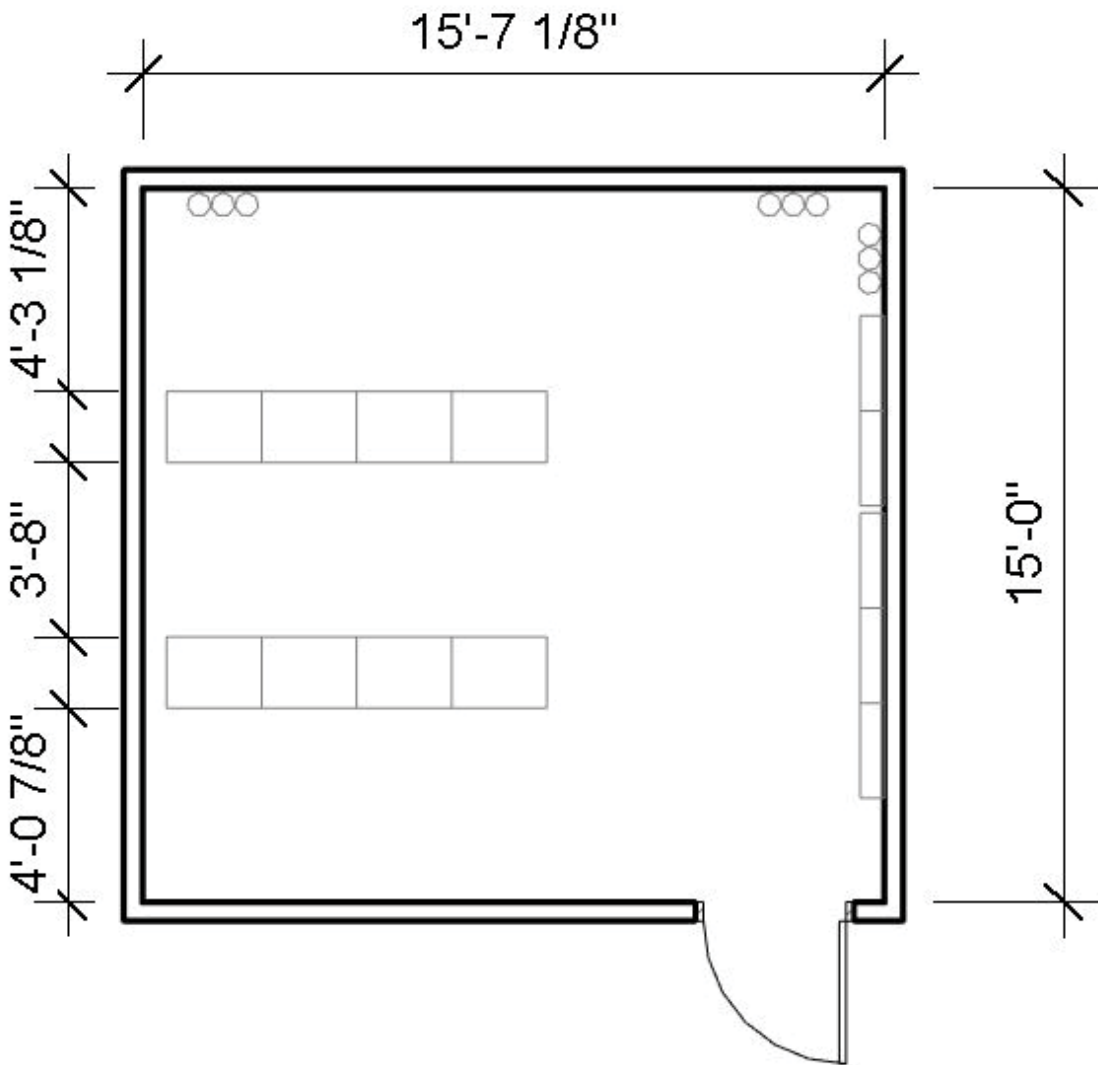


Advanced Planning Room Data Sheets

Wake County Public Health

Code: RT.022

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.40.001	SEALED CONCRETE	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.002	PAINT, FIRE RETARDANT	0	FINISHES	1	1	0	0





Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.024

Name	JANITOR CLOSET		
Last modified	Harper, Espy, 9/7/2020 4:49 PM		

Details		Groups / Classifications / Status	
Programmed Area	0.00		
Description			
Space Type	X-CUST		
Custodial Space			

Architectural			
Length (Min.)	9 feet		
Width (Min.)	7 feet		

Access			
Doors/Openings 1	Wood	3.5 W ft.	7 H ft.
Locking mechanism	<input checked="" type="checkbox"/>		

Plumbing			
Sink/Basin	<input checked="" type="checkbox"/>	Qty. 1	
Sink Size	3 W in.	3 L in.	
Water supply - cold water	<input checked="" type="checkbox"/>		
Water supply - hot water	<input checked="" type="checkbox"/>		
Floor drain	<input checked="" type="checkbox"/>		

Electrical		
Normal supply - single outlets	<input checked="" type="checkbox"/>	as required by code
Occupancy/Vacancy Sensor	<input checked="" type="checkbox"/>	

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.40.001	SEALED CONCRETE	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0

Equipment

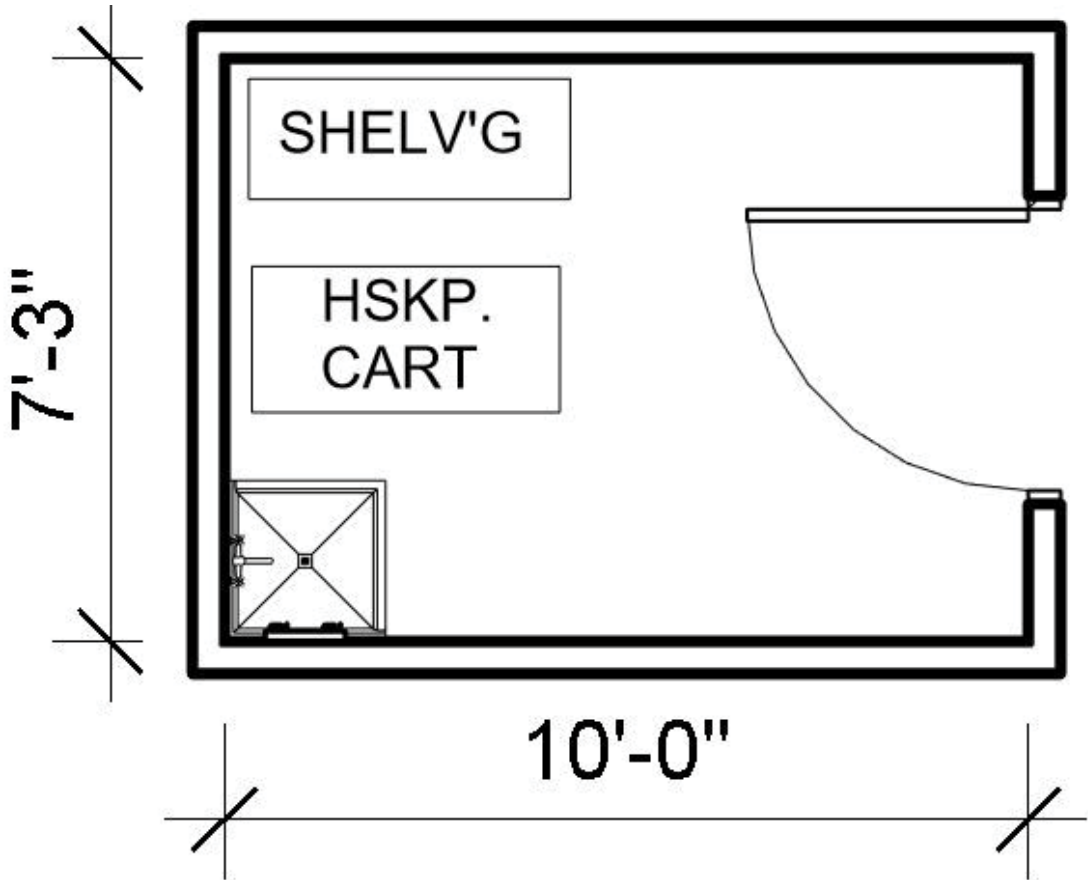
Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.006	PAPER TOWEL DISPENSER	0	EQP	1	1	0	0
E1040.20.007	SOAP DISPENSER	0	EQP	1	1	0	0
E1040.20.038	METAL SHELVING	0	EQP	1	1	0	0
E1040.20.048	MOP RACK	0	EQP	1	1	0	0



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.024



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
34.009	G64B	JANITORS CLOSET	From RT.024	51.01
34.033	170	JANITORS CLOSET	From RT.024	31.82



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.025

Name	BREAKROOM		
Last modified	Harper, Espy, 3/11/2020 12:10 PM		
Details		Groups / Classifications / Status	
Programmed Area	0.00		
Description			
Space Type	S-BREAK		
Breakroom			
Plumbing			
Sink/Basin	<input checked="" type="checkbox"/>	Qty. Single Basin	Material Stainless Steel
Sink Faucet/Handle	<input checked="" type="checkbox"/>	Faucet Type Gooseneck	
Water supply - cold water	<input checked="" type="checkbox"/>		
Water supply - hot water	<input checked="" type="checkbox"/>		
Electrical			
Normal supply - single outlets	<input checked="" type="checkbox"/>	As shown and required by code	
Occupancy/Vacancy Sensor	<input checked="" type="checkbox"/>		
Communications			
Data, standard	<input checked="" type="checkbox"/>		
Telephone	<input checked="" type="checkbox"/>		

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.30.001	LUXURY VINYL TILE	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0

Equipment

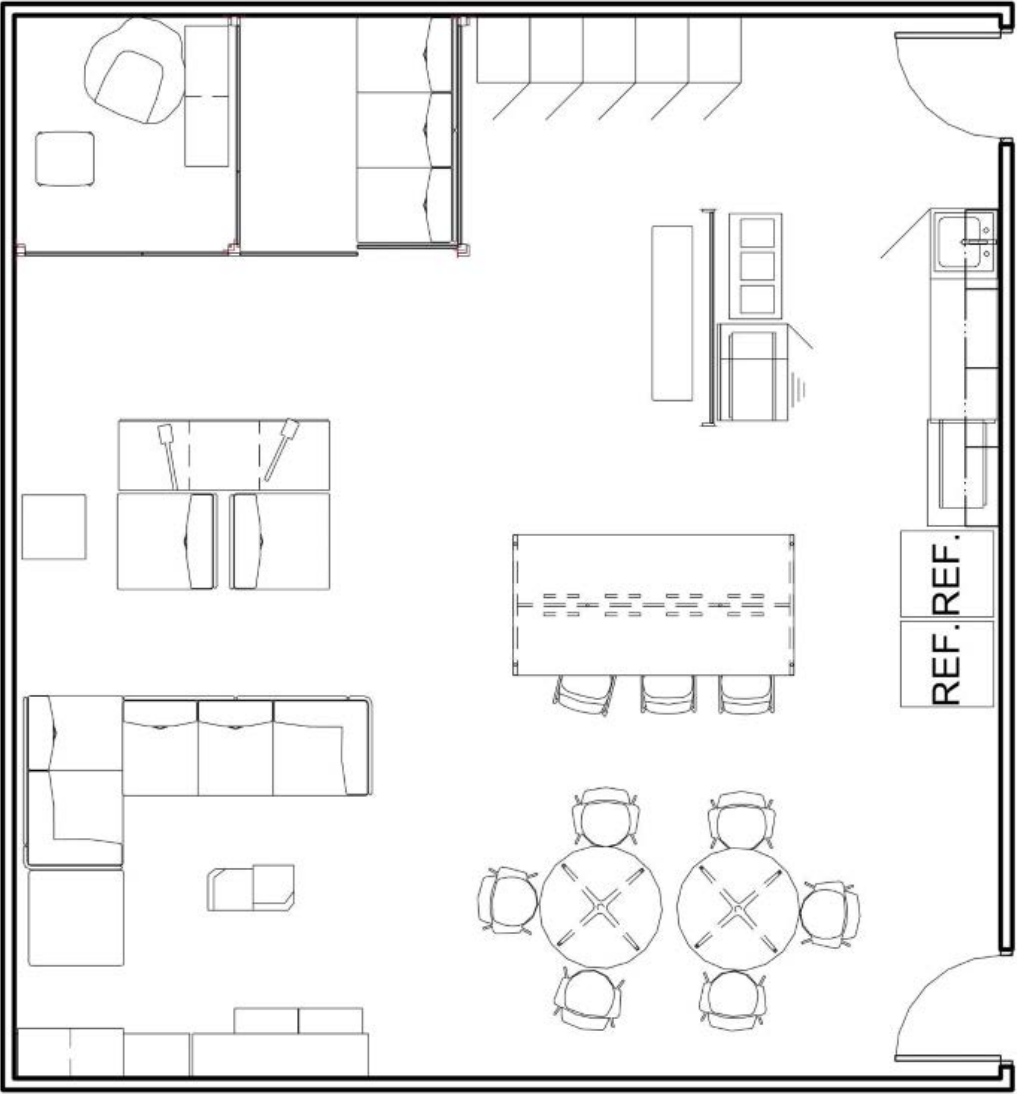
Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.004	CLOCK	0	EQP	1	1	0	0
E1040.20.006	PAPER TOWEL DISPENSER	0	EQP	1	1	0	0
E1040.20.007	SOAP DISPENSER	0	EQP	1	1	0	0
E1040.20.010	WASTE RECEPTACLE	0	EQP	1	1	0	0
E1040.20.029	SANITIZER DISPENSER	0	EQP	1	1	0	0
E1040.20.045	MICROWAVE	0	EQP	2	2	0	0
E1040.20.046	REFRIDGERATOR, BREAKROOM	0	EQP	2	2	0	0
E1040.20.047	LOCKERS	0	EQP	1	1	0	0



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.025



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
59.002		STAFF LOUNGE	From RT.025	350.00
59.003		STAFF LOUNGE	From RT.025	350.00
59.004		STAFF LOUNGE	From RT.025	350.00
59.005		STAFF LOUNGE	From RT.025	350.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.025

Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
59.006		STAFF LOUNGE	From RT.025	350.00
59.007		STAFF LOUNGE	From RT.025	350.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.026

Name	CENTRAL LOBBY
Last modified	Harper, Espy, 7/20/2020 1:30 PM

Details	Groups / Classifications / Status
Programmed Area	0.00
Description	Public Lobby Space/Floor
Space Type	X-LOBBY

Architectural
Wall Blocking <input checked="" type="checkbox"/> For wall hung equipment including digital screens/monitors

Access
Daylight Required <input checked="" type="checkbox"/>

Mechanical
Temperature summer <input checked="" type="checkbox"/> Min. day 75 Max. day 75
Temperature winter <input checked="" type="checkbox"/> Min. night 72 Min. day 72

Electrical
Normal supply - single outlets <input checked="" type="checkbox"/>

Communications
Data, standard <input checked="" type="checkbox"/>
Other <input checked="" type="checkbox"/> Public WiFi
Audio amplifier - speech <input checked="" type="checkbox"/> Overhead Speaker
Camera surveillance <input checked="" type="checkbox"/>

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.30.001	LUXURY VINYL TILE	0	FINISHES	1	1	0	0
C2030.75.002	CARPET	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0
C2050.80.002	WOOD	0	FINISHES	1	1	0	0





Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.027

Name	MAIL ROOM
Last modified	Harper, Espy, 4/6/2020 1:10 PM

Details	Groups / Classifications / Status
Programmed Area	0.00
Description	Incoming and Outgoing Mail Center
Space Type	S-MAIL

General Requirements

Architectural
Wall Blocking <input checked="" type="checkbox"/>

Electrical
Normal supply - single outlets <input checked="" type="checkbox"/> as required by code
Occupancy/Vacancy Sensor <input checked="" type="checkbox"/>

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.30.001	LUXURY VINYL TILE	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							
C2050.10.001	GYPSON BOARD	0	FINISHES	1	1	0	0

Equipment

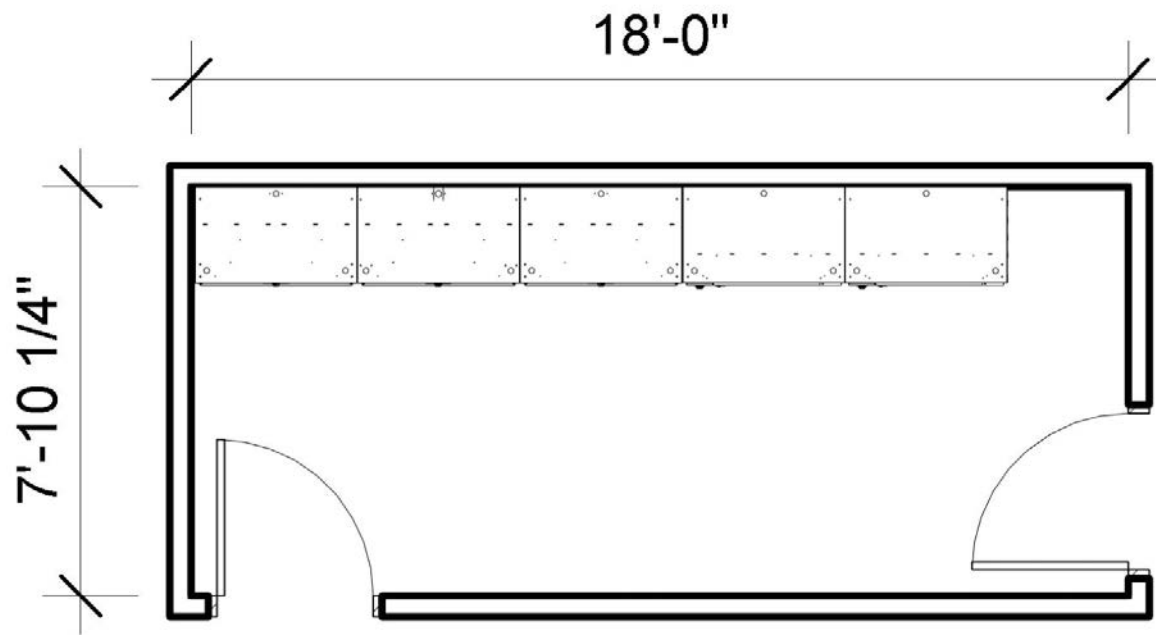
Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.057	ELECTRONIC MAILBOX SYSTEM	0	EQP	1	1	0	0



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.027



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
28.003	G43	MAIL ROOM	From RT.027	150.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.029

Name	WATER LAB		
Last modified	Harper, Espy, 9/7/2020 5:30 PM		
Details		Groups / Classifications / Status	
Programmed Area	0.00		
Description			
Space Type	S-LAB		
Access			
Doors/Openings 1	Wood	3 W ft.	7 H ft.
Locking mechanism	<input checked="" type="checkbox"/> Key Lock		
Plumbing			
Sink/Basin	<input checked="" type="checkbox"/> Qty. 2	Material Stainless Steel	
Sink Faucet/Handle	<input checked="" type="checkbox"/> Faucet Type Gooseneck	Handle Type Wrist Blade	
Water supply - cold water	<input checked="" type="checkbox"/>		
Water supply - hot water	<input checked="" type="checkbox"/>		
Vacuum	<input checked="" type="checkbox"/>		
Electrical			
Normal supply - single outlets	<input checked="" type="checkbox"/>		
Communications			
Data, standard	<input checked="" type="checkbox"/>	per workstation, as required by equipment	
Telephone	<input checked="" type="checkbox"/>		

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.30.001	LUXURY VINYL TILE	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0

Equipment

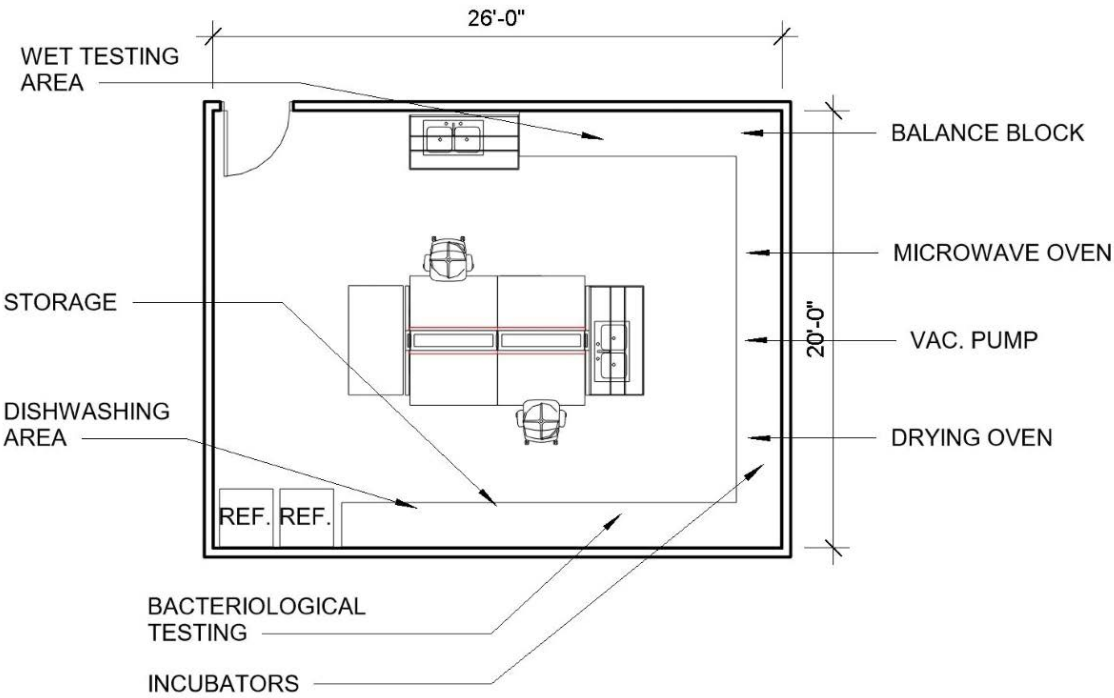
Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.058	INCUBATOR	0	EQP	1	1	0	0
E1040.20.059	LAB MICROWAVE	0	EQP	1	1	0	0
E1040.20.060	BALANCE BLOCK	0	EQP	1	1	0	0
E1040.20.061	VACUUM PUMP	0	EQP	1	1	0	0
E1040.20.062	DRYING OVEN	0	EQP	1	1	0	0
E1040.20.063	LAB DISHWASHER	0	EQP	1	1	0	0



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.029



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
25.009	G69	MICRO LAB	From RT.029	520.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.030

Name	PHARMACY
Last modified	Harper, Espy, 9/8/2020 2:28 PM

Details	Groups / Classifications / Status
Programmed Area	0.00
Description	
Space Type	P-PHARM

Access				
Doors/Openings 1	Wood	4 W ft.	7 H ft.	
Doors/Openings 2	Wood	4 W ft.	7 H ft.	
Doors/Openings 3	Wood	4 W ft.	7 H ft.	
Glass in doors	<input checked="" type="checkbox"/> Clear	4 W in.	36 H in.	
Card reader/access control	<input checked="" type="checkbox"/>			

Plumbing			
Sink/Basin	<input checked="" type="checkbox"/> Qty. 1	Material Stainless Steel	
Sink Faucet/Handle	Faucet Type Gooseneck	Handle Type Wristblade	
Eyewash Station	<input checked="" type="checkbox"/> Deck Mounted		
Water supply - cold water	<input checked="" type="checkbox"/>		
Water supply - hot water	<input checked="" type="checkbox"/>		

Electrical		
Normal supply - single outlets	<input checked="" type="checkbox"/>	
Uninterrupted Power Supply	<input checked="" type="checkbox"/> Medication refrigeration	
Task Lighting	<input checked="" type="checkbox"/>	

Communications		
Data, standard	<input checked="" type="checkbox"/> per workstation	
Telephone	<input checked="" type="checkbox"/> 3	
Camera surveillance	<input checked="" type="checkbox"/> all spaces	
Detection, temperature	<input checked="" type="checkbox"/> Refrigerators/freezers	

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.30.001	LUXURY VINYL TILE	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0

Equipment

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.005	PC	0	EQP	6	6	0	0
E1040.20.006	PAPER TOWEL DISPENSER	0	EQP	1	1	0	0

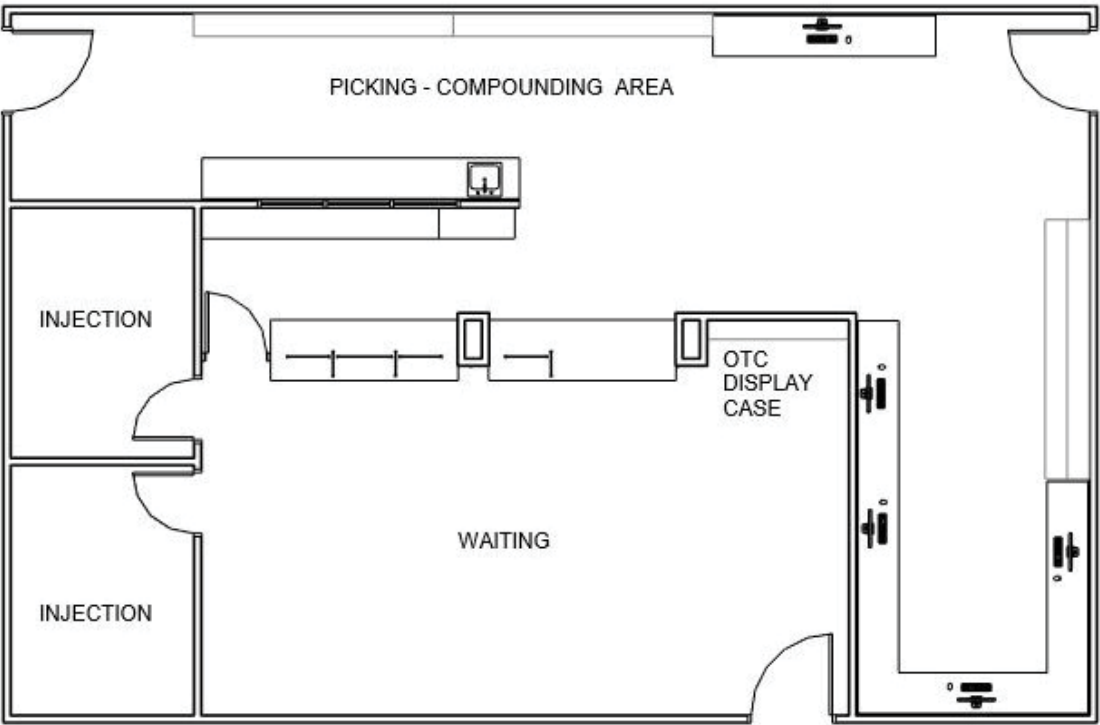


Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.030

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.007	SOAP DISPENSER	0	EQP	1	1	0	0
E1040.20.010	WASTE RECEPTACLE	0	EQP	1	1	0	0
E1040.20.016	GLOVE DISPENSER	0	EQP	1	1	0	0
E1040.20.021	PHONE	0	EQP	1	1	0	0
E1040.20.022	SCANNER	0	EQP	1	1	0	0
E1040.20.028	COAT HOOK	0	EQP	8	8	0	0
E1040.20.029	SANITIZER DISPENSER	0	EQP	1	1	0	0
E1040.20.037	MEDICAL REFRIGERATOR	0	EQP	1	1	0	0
E1040.20.050	PRINTER	0	EQP	2	2	0	0
E1040.20.051	SHREDDER BIN	0	EQP	1	1	0	0
E1040.20.055	MEDICAL FREEZER	0	EQP	1	1	0	0



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
39.003	107	PHARMACY	From RT.030	700.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.031

Name	XRAY
Last modified	Harper, Espy, 9/7/2020 11:08 PM

Details	Groups / Classifications / Status
Programmed Area	0.00
Description	Communicable Disease

Architectural			
Wall Blocking	<input checked="" type="checkbox"/>		
Ceiling mounted equipment	<input checked="" type="checkbox"/>	Ceiling rails	
Radiation Protection	<input checked="" type="checkbox"/>	Lead Lined windows-walls	

Access			
Doors/Openings 1	Wood	3.5 W ft.	7 H ft.
Card reader/access control	<input checked="" type="checkbox"/>		
Other	<input checked="" type="checkbox"/>	Lead lined	
Operable	N	Other	<input checked="" type="checkbox"/> Control desk window

Mechanical			
Temperature summer	<input checked="" type="checkbox"/>	Min. day 59	Max. day 90
Temperature winter	<input checked="" type="checkbox"/>	Min. night 59	Min. day 90
Ventilation			
Air moisture	<input checked="" type="checkbox"/>	20 RH (%)	75 Fluctuation

Plumbing			
Sink/Basin	<input checked="" type="checkbox"/>	Qty. 1	Material Stainless Steel
Sink Faucet/Handle		Faucet Type Gooseneck	Handle Type Wristblade
Water supply - cold water	<input checked="" type="checkbox"/>		
Water supply - hot water	<input checked="" type="checkbox"/>		

Electrical			
Normal supply - single outlets	<input checked="" type="checkbox"/>		
Uninterrupted Power Supply	<input checked="" type="checkbox"/>		
Light dimmer	<input checked="" type="checkbox"/>		
Other	<input checked="" type="checkbox"/>	In-use light/warning light	

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.30.001	LUXURY VINYL TILE	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0

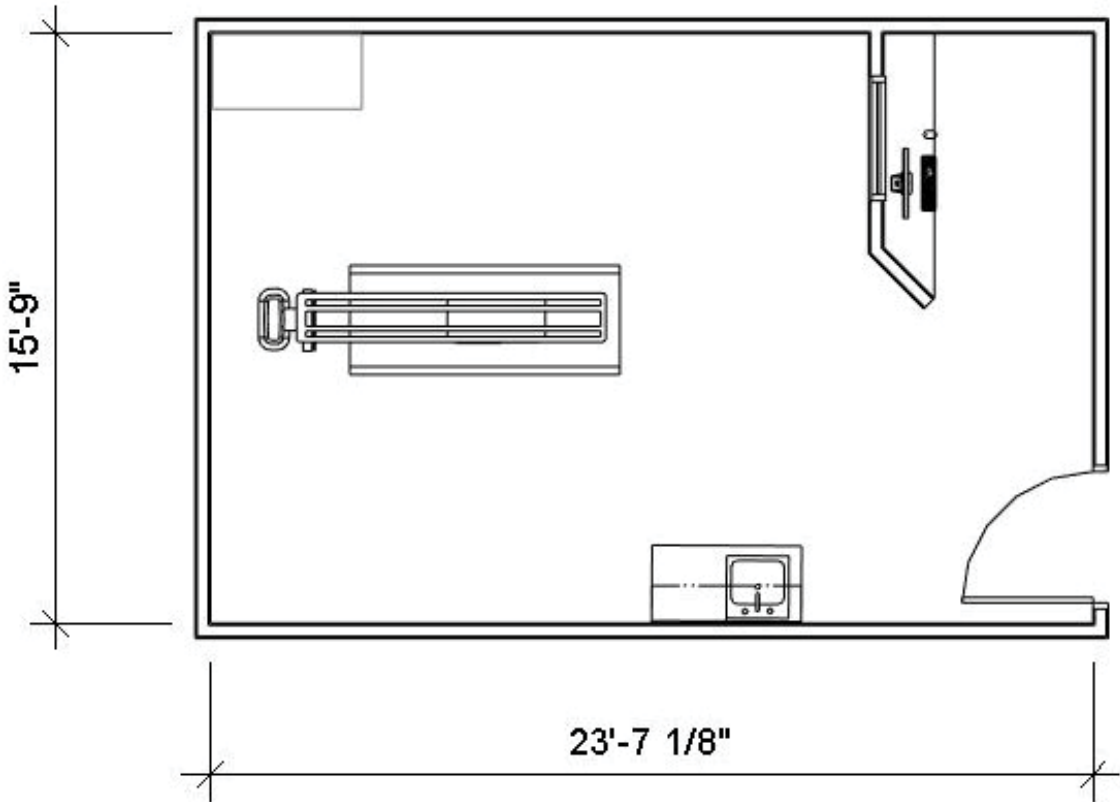


Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.031

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.002	MIRROR	0	EQP	1	1	0	0
E1040.20.005	PC	0	EQP	1	1	0	0
E1040.20.006	PAPER TOWEL DISPENSER	0	EQP	1	1	0	0
E1040.20.007	SOAP DISPENSER	0	EQP	1	1	0	0
E1040.20.010	WASTE RECEPTACLE	0	EQP	1	1	0	0
E1040.20.014	SHARPS	0	EQP	1	1	0	0
E1040.20.016	GLOVE DISPENSER	0	EQP	1	1	0	0
E1040.20.027	APRON RACK	0	EQP	1	1	0	0
E1040.20.029	SANITIZER DISPENSER	0	EQP	1	1	0	0
E1040.20.064	XRAY GENERATOR	0	EQP	1	1	0	0
E1040.20.065	XRAY WALL STAND	0	EQP	1	1	0	0
E1040.20.066	XRAY TABLE	0	EQP	1	1	0	0



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
40.040	215D	X-RAY	From RT.031	230.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.032

Name	OFFICE, SHARED
Last modified	Harper, Espy, 4/13/2020 12:01 PM

Details	Groups / Classifications / Status
Programmed Area	128.00
Description	
Space Type	P-OFFC

General Requirements	
Occupancy, maximum	4

Architectural	
Length (Min.)	12 feet
Width (Min.)	10 feet

Access	
Doors/Openings 1	3 W ft. 7 H ft.
Locking mechanism	<input checked="" type="checkbox"/>

Electrical	
Normal supply - single outlets	<input checked="" type="checkbox"/>
Movement operated	<input checked="" type="checkbox"/>

Communications	
Data, standard	<input checked="" type="checkbox"/> 2 min.
Telephone	<input checked="" type="checkbox"/> 2

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.75.002	CARPET	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0

Furniture

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E2050.30.003	DESK	0	FURN	2	2	0	0
E2050.30.008	VISITOR CHAIR	0	FURN	2	2	0	0
E2050.30.010	TASK CHAIR	0	FURN	2	2	0	0

Equipment

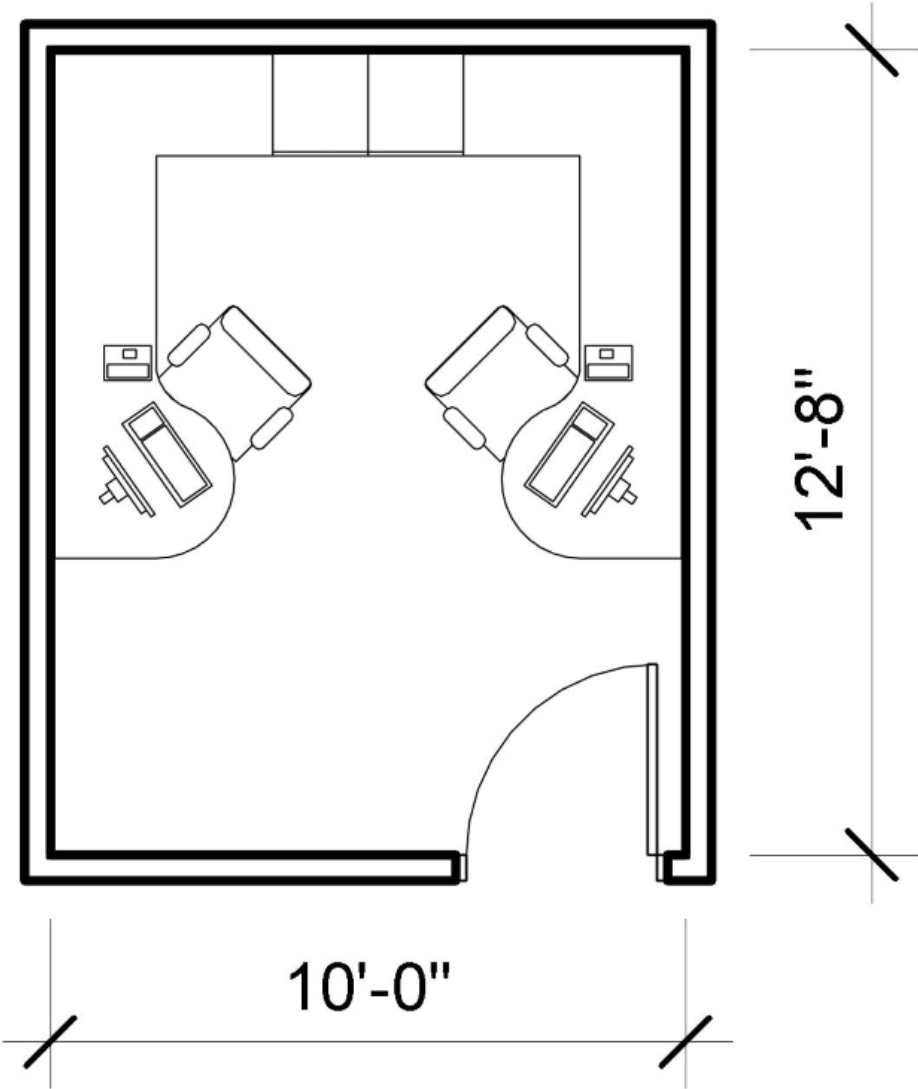


Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.032

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.005	PC	0	EQP	2	2	0	0
E1040.20.010	WASTE RECEPTACLE	0	EQP	2	2	0	0
E1040.20.021	PHONE	0	EQP	2	2	0	0





Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.032

Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
02.069		OFFICE, SHARED	From RT.032	128.00
11.1.050	133	OFFICE, SHARED	From RT.032	128.00
14.3.001	369	OFFICE, SHARED	Derived from RT.032	128.00
15.059	313	OFFICE, SHARED	From RT.032	128.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.033

Name	COLLABORATION WORKSTATION
Last modified	Harper, Espy, 5/13/2020 3:00 PM

Details		Groups / Classifications / Status	
Programmed Area	235.00		
Description			

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.75.002	CARPET	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0

Furniture

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E2050.30.003	DESK	0	FURN	2	2	0	0
E2050.30.010	TASK CHAIR	0	FURN	2	2	0	0
E2050.30.013	48" ROUND TABLE	0	FURN	1	1	0	0

Equipment

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.005	PC	0	EQP	2	2	0	0
E1040.20.010	WASTE RECEPTACLE	0	EQP	2	2	0	0
E1040.20.021	PHONE	0	EQP	2	2	0	0

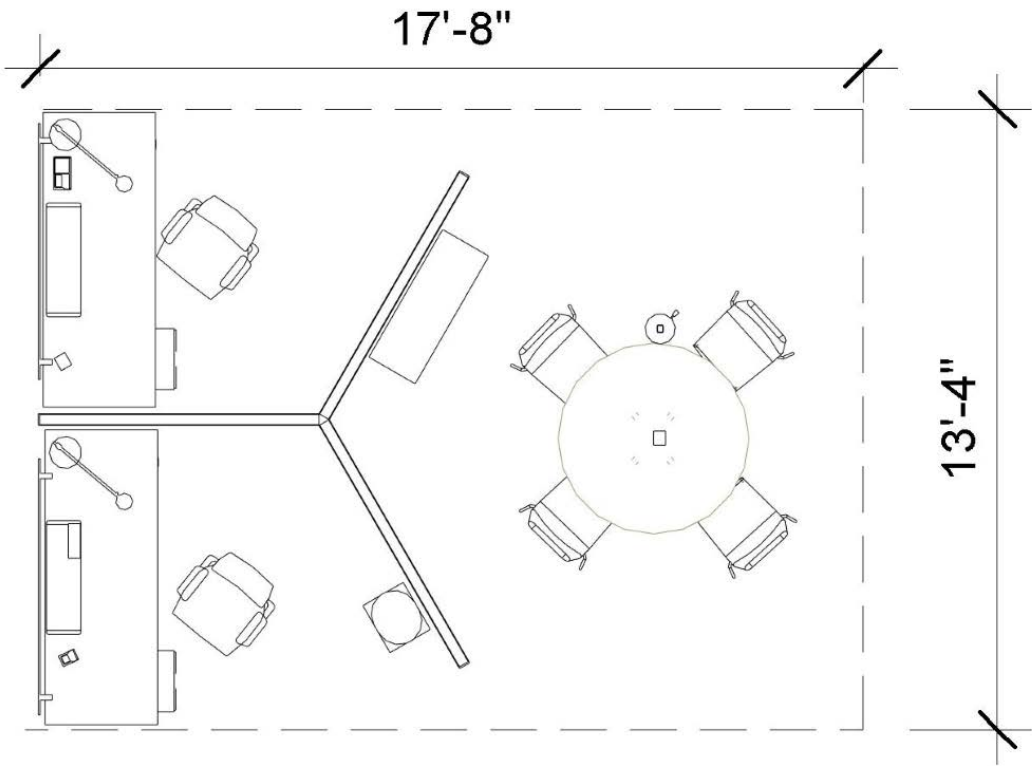




Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.033



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
27.2.025	301	WORKSTATION, PUBLIC SURVEILANCE	From RT.033	235.00
47.019	316A	WORKSTATION	From RT.033	235.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.036

Name	CLINIC SOILED UTILITY		
Last modified	Harper, Espy, 7/20/2020 6:03 PM		

Details	Groups / Classifications / Status		
Programmed Area	0.00		
Description			
Space Type	S-CLINIC		

Access			
Doors/Opening 1	Wood	3 W ft.	7 H ft.
Card reader/access control	<input checked="" type="checkbox"/>		

Mechanical			
Exhaust	<input checked="" type="checkbox"/>		

Plumbing			
Sink/Basin	<input checked="" type="checkbox"/>	Qty. 1	Material Stainless Steel
Sink Faucet/Handle	<input checked="" type="checkbox"/>	Faucet Type Gooseneck	Handle Type Wrist Blade
Sink Size	<input checked="" type="checkbox"/>	11.5 W in. 16 L in. 5 D in.	
Eyewash Station	<input checked="" type="checkbox"/>		

Electrical			
Normal supply - single outlets	<input checked="" type="checkbox"/>		

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.50.001	VINYL CUT TILE	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0

Equipment

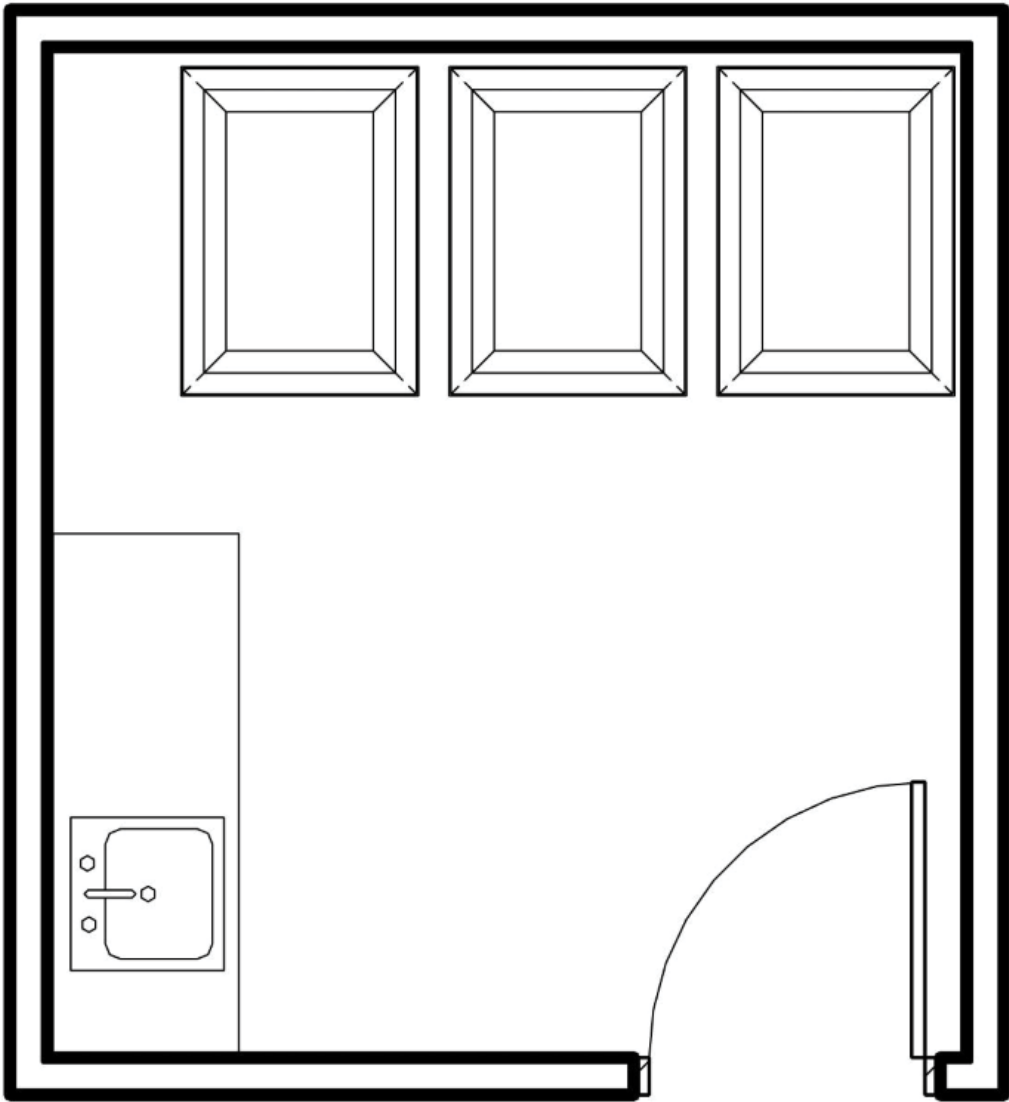
Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.006	PAPER TOWEL DISPENSER	0	EQP	1	1	0	0
E1040.20.016	GLOVE DISPENSER	0	EQP	1	1	0	0
E1040.20.023	TOILET PAPER DISPENSER	0	EQP	1	1	0	0
E1040.20.029	SANITIZER DISPENSER	0	EQP	1	1	0	0
E1040.20.031	SOILED HAMPER	0	EQP	1	1	0	0



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.036



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
11.2.036		SOILED UTILITY	From RT.036	110.00
14.1.027	277C	SOILED UTILITY	From RT.036	110.00
15.049		SOILED UTILITY	From RT.036	110.00
16.041		SOILED UTILITY	From RT.036	110.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.036

Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
17.029		SOILED UTILITY	From RT.036	110.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.037

Name	CLINIC TELEHEALTH WORKSTATION		
Last modified	Harper, Espy, 7/23/2020 1:33 PM		
Details		Groups / Classifications / Status	
Programmed Area	66.00		
Description			
Space Type	S-CLINIC		
General Requirements			
Occupancy, maximum	2		
Architectural			
Other			
Systems furniture			
Access			
Sliding doors	<input checked="" type="checkbox"/>	Cubicle System	
Electrical			
Normal supply - single outlets	<input checked="" type="checkbox"/>		
Occupancy/Vacancy Sensor	<input checked="" type="checkbox"/>		
Communications			
Data, standard	<input checked="" type="checkbox"/>		
Telephone	<input checked="" type="checkbox"/>		

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.75.002	CARPET	0	FINISHES	1	1	0	0
Wall							
C1010.40.001	CUBICLE WALL	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0

Furniture

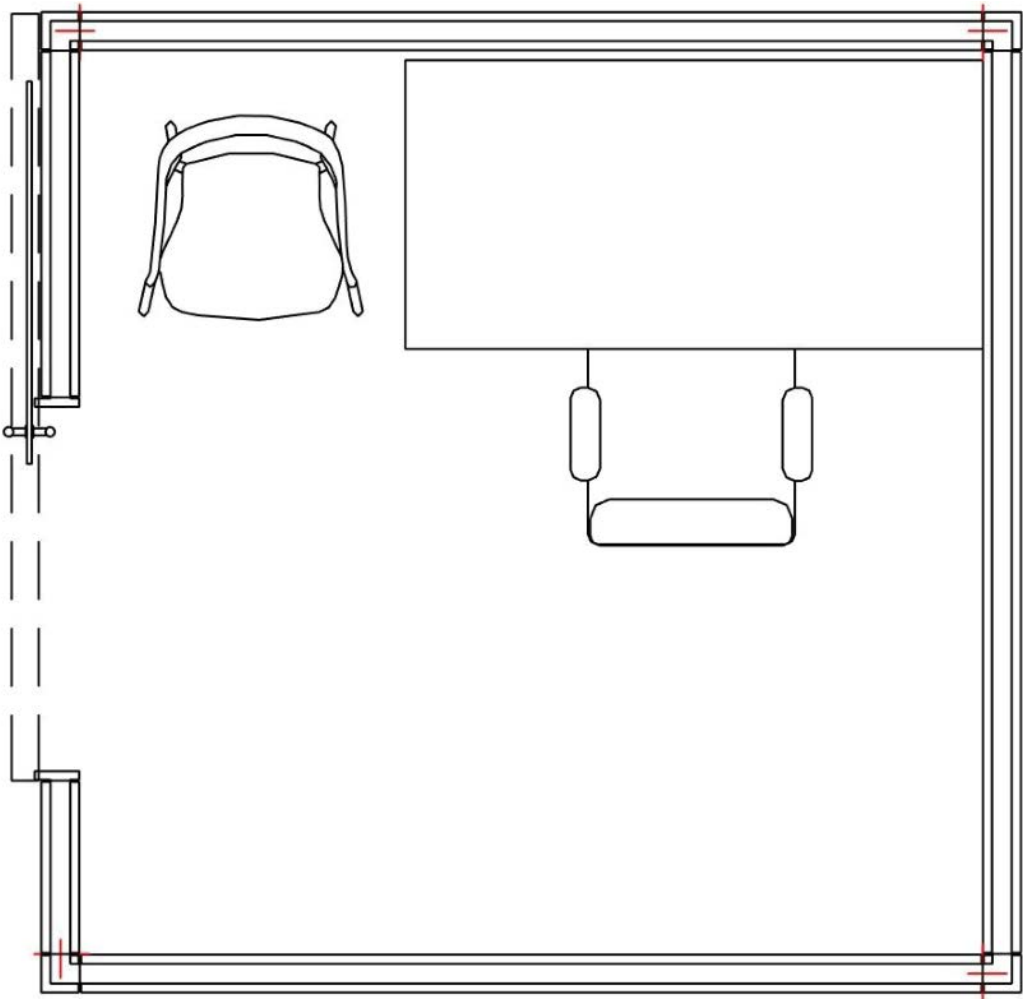
Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E2050.30.003	DESK	0	FURN	1	1	0	0
E2050.30.008	VISITOR CHAIR	0	FURN	1	1	0	0
E2050.30.010	TASK CHAIR	0	FURN	1	1	0	0



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.037



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
16.023	193A	WORKSTATION, TELEHEALTH	From RT.037	66.00
16.024	193A-1	WORKSTATION, TELEHEALTH	From RT.037	66.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.038

Name	COPY AREA
Last modified	Harper, Espy, 9/8/2020 12:15 PM

Details	Groups / Classifications / Status
Programmed Area	40.00
Description	

Electrical
Normal supply - single outlets <input checked="" type="checkbox"/>

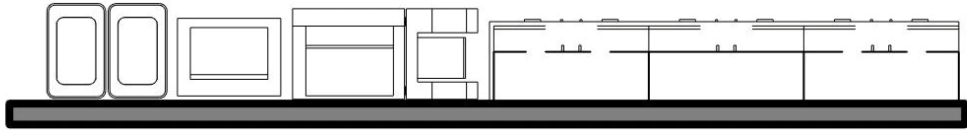
Communications
Data, standard <input checked="" type="checkbox"/> above and below counter
Telephone <input checked="" type="checkbox"/>

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.30.001	LUXURY VINYL TILE	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0

Equipment

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.010	WASTE RECEPTACLE	0	EQP	2	2	0	0
E1040.20.021	PHONE	0	EQP	1	1	0	0
E1040.20.022	SCANNER	0	EQP	1	1	0	0
E1040.20.050	PRINTER	0	EQP	1	1	0	0
E1040.20.051	SHREDDER BIN	0	EQP	1	1	0	0



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.038

Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
02.019	384	WORK ROOM, COPY/PRINTER	From RT.038	230.00
23.048	G24A	COPY AREA	From RT.038	80.00
27.1.010	G90	WORK AREA, CONSUMER RECORDS	From RT.038	250.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.040

Name	CONSULT
Last modified	Harper, Espy, 6/8/2020 3:50 PM

Details	Groups / Classifications / Status
Programmed Area	128.00
Description	
3 Options	

General Requirements	
Occupancy, maximum	4

Architectural	
Wall Blocking	<input checked="" type="checkbox"/> For wall mounted workstations
Length (Min.)	12 feet
Width (Min.)	10 feet

Access	
Doors/Openings 1	Wood3 W ft.7 H ft.
Glass in doors	Translucent
Sliding doors	<input checked="" type="checkbox"/> optional

Electrical	
Normal supply - single outlets	<input checked="" type="checkbox"/> As required per code
Occupancy/Vacancy Sensor	<input checked="" type="checkbox"/>

Communications	
Data, standard	<input checked="" type="checkbox"/>
Telephone	<input checked="" type="checkbox"/>

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.30.001	LUXURY VINYL TILE	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0

Furniture

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E2050.30.003	DESK	0	FURN	1	1	0	0
E2050.30.008	VISITOR CHAIR	0	FURN	2	2	0	0
E2050.30.009	RECLINER	0	FURN	1	1	0	0
E2050.30.010	TASK CHAIR	0	FURN	1	1	0	0

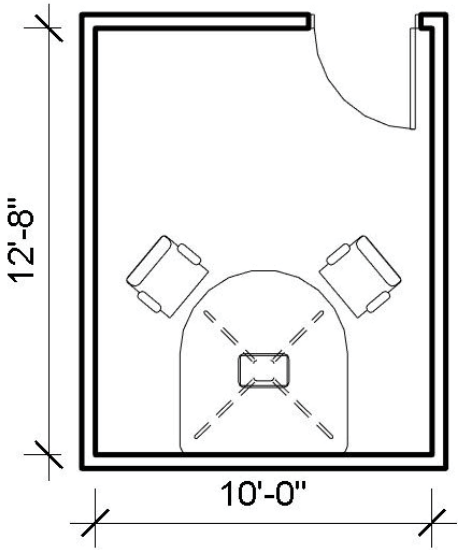
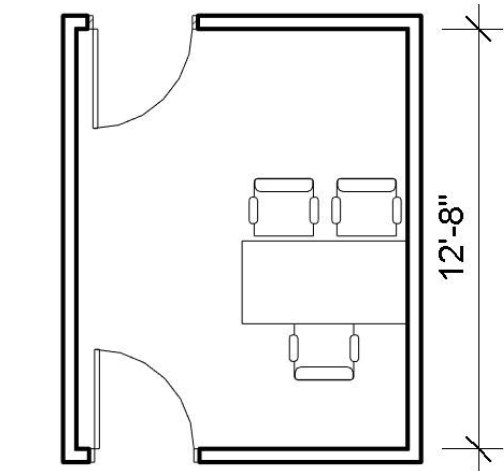


Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.040

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.005	PC	0	EQP	1	1	0	0
E1040.20.021	PHONE	0	EQP	1	1	0	0



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
09.007		CONSULTATION	From RT.040	128.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.040

Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
23.003	G13	CONSULTATION, NUTRITION	From RT.040	128.00
23.009	G12	CONSULTATION, NUTRITION	From RT.040	128.00
23.010	G11	CONSULTATION, NUTRITION	From RT.040	128.00
23.011	G09	CONSULTATION, NUTRITION	From RT.040	128.00
23.012	G07	CONSULTATION, NUTRITION	From RT.040	128.00
23.013	G06	CONSULTATION, NUTRITION	From RT.040	128.00
23.014	G05	CONSULTATION, NUTRITION	From RT.040	128.00
23.015	14.4.001	CONSULTATION, NUTRITION	From RT.040	128.00
39.008		CONSULTATION	From RT.040	80.00
59.018		CONSULTATION, SHARED	From RT.040	128.00
59.019		CONSULTATION, SHARED	From RT.040	128.00
59.020		CONSULTATION, SHARED	From RT.040	128.00
59.021		CONSULTATION, SHARED	From RT.040	128.00
59.022		CONSULTATION, SHARED	From RT.040	128.00
59.023		CONSULTATION, SHARED	From RT.040	128.00
59.024		CONSULTATION, SHARED	From RT.040	128.00
59.025		CONSULTATION, SHARED	From RT.040	128.00
59.026		CONSULTATION, SHARED	From RT.040	128.00
59.027		CONSULTATION, SHARED	From RT.040	128.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.041

Name

TEAM ROOM

Last modified

Harper, Espy, 7/20/2020 5:48 PM

Details

Groups / Classifications / Status

Programmed Area

0.00

Description

General Requirements

Occupancy, maximum

10

Architectural

Wall Blocking

☒

At digital displays

Length (Min.)

18 feet

Width (Min.)

12 feet

Access

Doors/Openings 1

Wood

3 W ft.

7 H ft.

Electrical

Normal supply - single outlets

☒

Light dimmer

☒

Occupancy/Vacancy Sensor

☒

Communications

Data, standard

☒

Telephone

☒

Conference Phone

Wireless network (WLAN)

☒

WiFi

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.75.002	CARPET	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0

Furniture

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E2050.30.007	CHAIR	0	FURN	10	10	0	0
E2050.30.011	CONFERENCE TABLES	0	FURN	6	6	0	0

Note: CONFIGURABLE



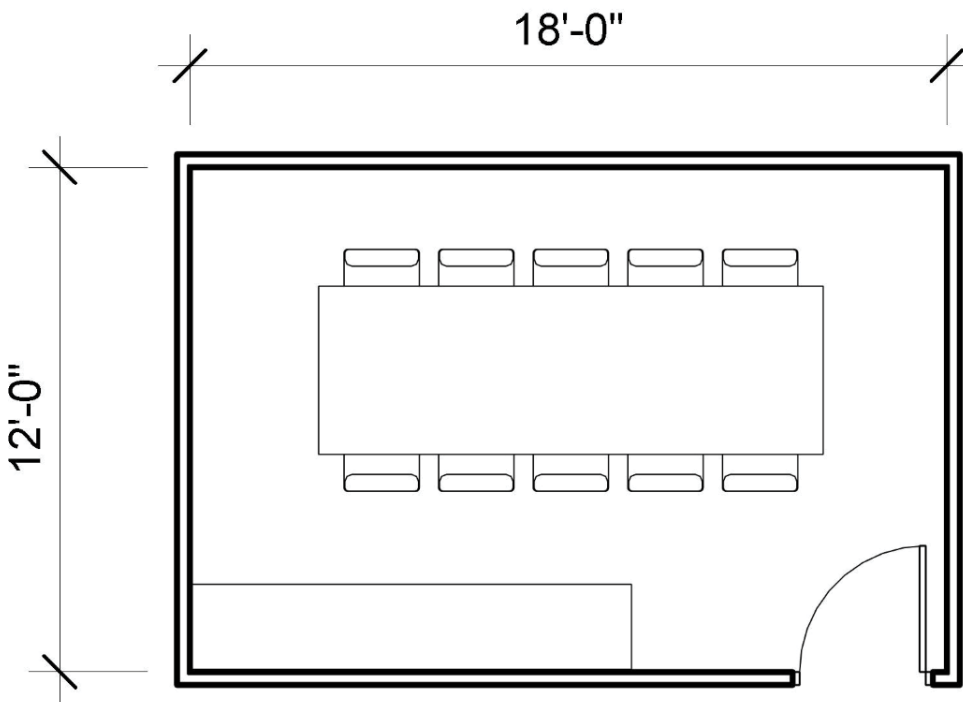


Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.041

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.049	DISPLAY MONITOR	0	EQP	1	1	0	0



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
46.003	329	HIV C&T TEAM ROOM	From RT.041	200.00
46.004	325	HIV E&D TEAM ROOM	From RT.041	200.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.042

Name	DENTAL, STERILIZATION LAB
Last modified	Harper, Espy, 9/8/2020 12:52 PM

Details	Groups / Classifications / Status		
Programmed Area	250.00		
Description			
Space Type	S-CLINIC		

General Requirements	
Occupancy, maximum	3

Architectural	
Length (Min.)	20 feet
Width (Min.)	10 feet

Access			
Doors/Openings 1	Wood	3 W ft.	7 H ft.
Doors/Openings 2	Wood	3 W ft.	7 H ft.
Glass in doors	<input checked="" type="checkbox"/> Clear	4 W in.	

Plumbing			
Sink/Basin	<input checked="" type="checkbox"/> Qty. 1	Material Stainless Steel	
Sink Faucet/Handle	Faucet Type Gooseneck	Handle Type Wristblade	
Water supply - cold water	<input checked="" type="checkbox"/>		
Water supply - hot water	<input checked="" type="checkbox"/>		
Technical compressed air	<input checked="" type="checkbox"/>		

Electrical		
Normal supply - single outlets	<input checked="" type="checkbox"/>	Above and below counter
Occupancy/Vacancy Sensor	<input checked="" type="checkbox"/>	
Task Lighting	<input checked="" type="checkbox"/>	Under Counter

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.30.001	LUXURY VINYL TILE	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0

Equipment

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.003	Instrument Cabinet	0	EQP	1	1	0	0
E1040.20.006	PAPER TOWEL DISPENSER	0	EQP	1	1	0	0
E1040.20.007	SOAP DISPENSER	0	EQP	1	1	0	0

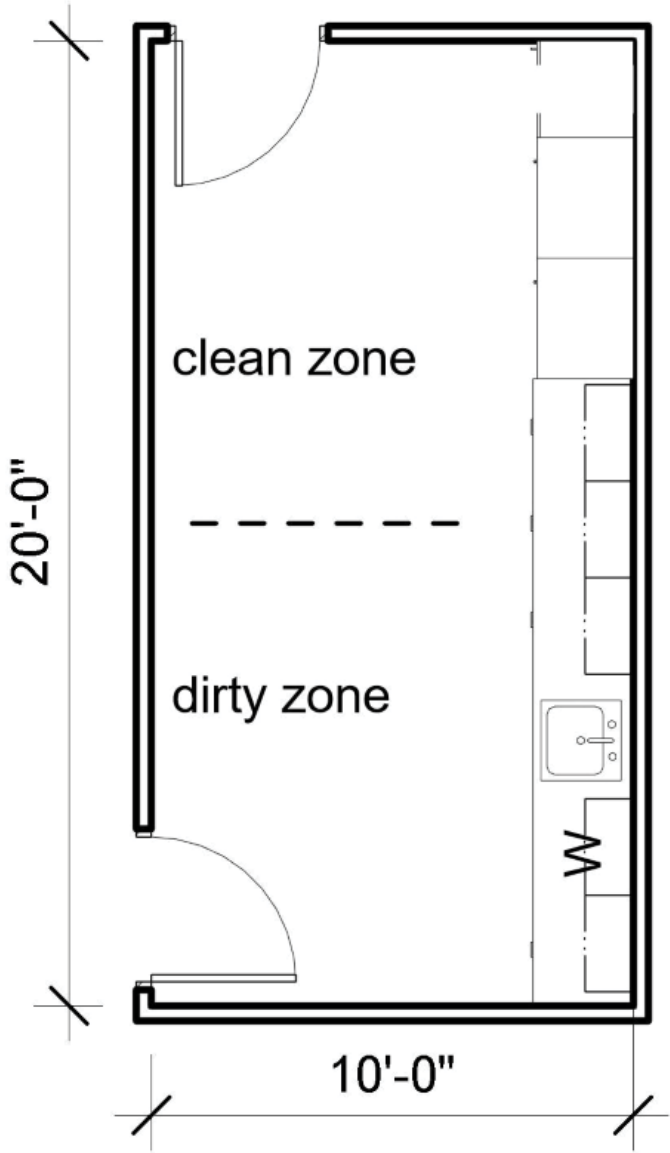


Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.042

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.010	WASTE RECEPTACLE	0	EQP	1	1	0	0
E1040.20.016	GLOVE DISPENSER	0	EQP	1	1	0	0
E1040.20.029	SANITIZER DISPENSER	0	EQP	1	1	0	0
E1040.20.067	STERILIZER	0	EQP	1	1	0	0



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.042

Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
15.010	210A	STERILIZATION LAB	From RT.042	250.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.043

Name	CHECK-IN
Last modified	Harper, Espy, 7/20/2020 2:01 PM

Details	Groups / Classifications / Status
Programmed Area	0.00
Description	

Access				
Doors/Openings 1	Wood	3 W ft.	7 H ft.	
Glass in doors	<input checked="" type="checkbox"/> Clear			

Mechanical				
Temperature summer	<input checked="" type="checkbox"/>	Min. day 75	Max. day 75	
Temperature winter	<input checked="" type="checkbox"/>	Min. night 72	Min. day 72	

Electrical	
Normal supply - single outlets	<input checked="" type="checkbox"/>

Communications		
Data, standard	<input checked="" type="checkbox"/>	per Workstation
Telephone	<input checked="" type="checkbox"/>	per Workstation
TV/Radio	<input checked="" type="checkbox"/>	
Other	<input checked="" type="checkbox"/>	Panic Button at desk

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.75.002	CARPET	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0

Furniture

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E2050.30.008	VISITOR CHAIR	0	FURN	1	1	0	0
E2050.30.010	TASK CHAIR	0	FURN	3	3	0	0

Equipment

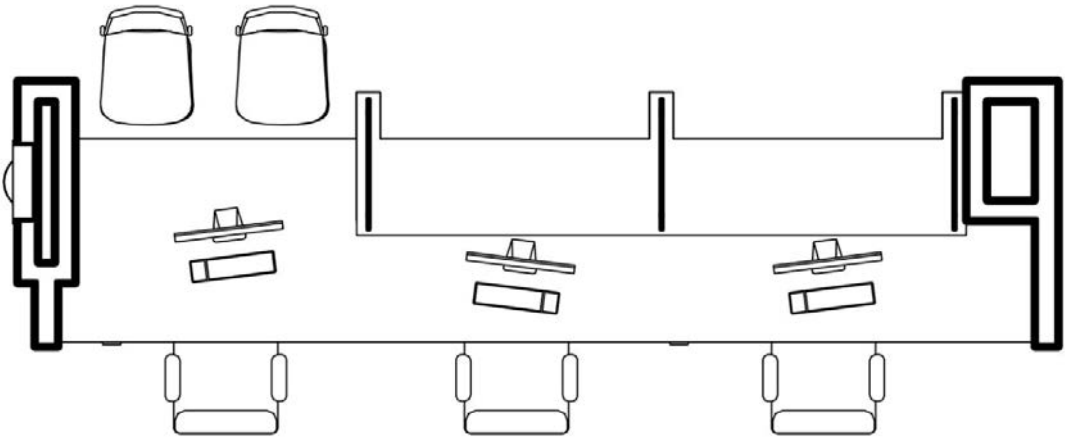
Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.005	PC	0	EQP	3	3	0	0
E1040.20.021	PHONE	0	EQP	3	3	0	0
E1040.20.050	PRINTER	0	EQP	1	1	0	0



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.043



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
05.001		CHECK-IN	From RT.043	40.00
11.1.033	143	CHECK-IN	From RT.043	230.00
11.2.020	110	CHECK-IN	From RT.043	230.00
14.1.022	278	CHECK-IN	From RT.043	250.00
14.2.026	249	CHECK-IN	From RT.043	250.00
15.005	208	CHECK-IN	From RT.043	450.00
17.007	219	CHECK-IN	From RT.043	200.00
23.034	G23	CHECK-IN	From RT.043	150.00



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.044

Name	NST ROOM
Last modified	Harper, Espy, 9/8/2020 1:00 PM

Details	Groups / Classifications / Status
Programmed Area	0.00
Description	

Architectural
Wall Blocking <input checked="" type="checkbox"/> Wall mounted PC Bracket

Access
Doors/Openings 1 Wood 3 W ft. 7 H ft.

Plumbing
Sink/Basin <input checked="" type="checkbox"/> Qty. 1 Material Stainless Steel
Sink Faucet/Handle <input checked="" type="checkbox"/> Faucet Type Gooseneck Handle Type Wristblade
Water supply - cold water <input checked="" type="checkbox"/>
Water supply - hot water <input checked="" type="checkbox"/>

Electrical
Normal supply - single outlets <input checked="" type="checkbox"/>
Light dimmer <input checked="" type="checkbox"/>

Communications
Data, standard <input checked="" type="checkbox"/> 2

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.30.001	LUXURY VINYL TILE	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0

Furniture

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E2050.30.009	RECLINER	0	FURN	2	2	0	0

Equipment

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.005	PC	0	EQP	2	2	0	0
E1040.20.006	PAPER TOWEL DISPENSER	0	EQP	1	1	0	0
E1040.20.007	SOAP DISPENSER	0	EQP	1	1	0	0

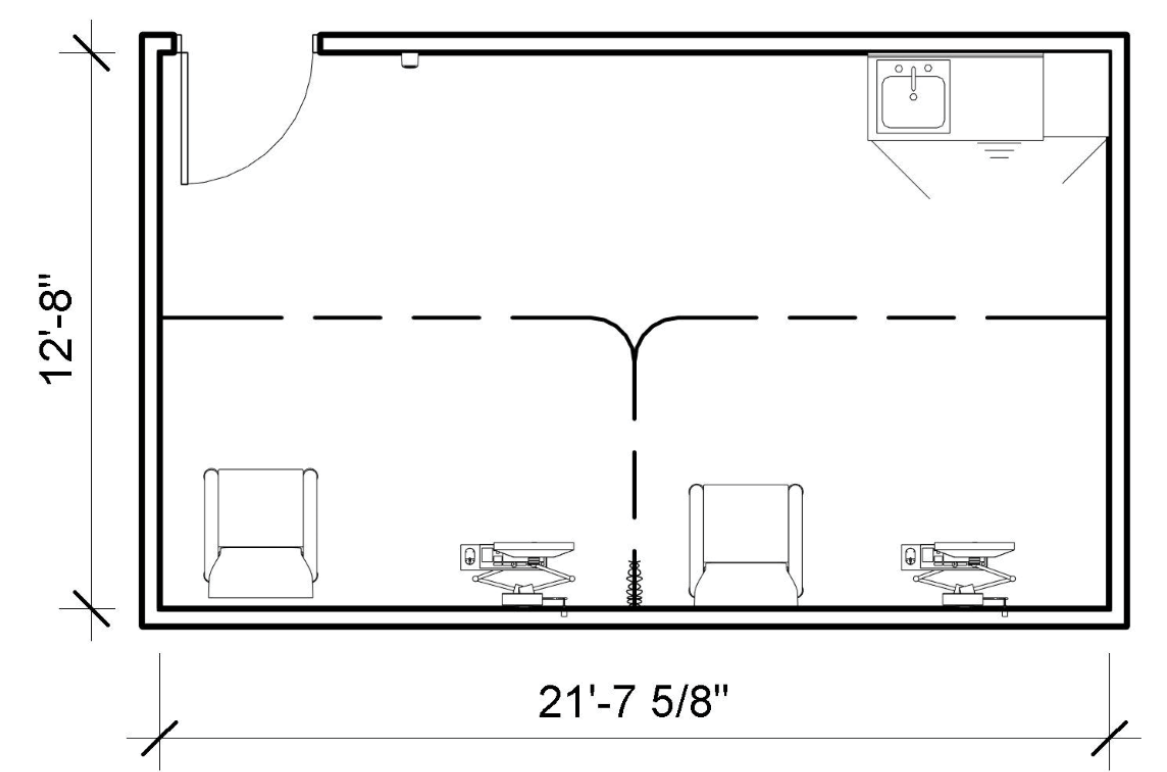


Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.044

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.010	WASTE RECEPTACLE	0	EQP	2	2	0	0
E1040.20.012	STOOL	0	EQP	1	1	0	0
E1040.20.014	SHARPS	0	EQP	2	2	0	0
E1040.20.015	CUBICLE CURTAIN	0	EQP	2	2	0	0
E1040.20.016	GLOVE DISPENSER	0	EQP	2	2	0	0
E1040.20.028	COAT HOOK	0	EQP	2	2	0	0
E1040.20.029	SANITIZER DISPENSER	0	EQP	2	2	0	0
E1040.20.054	NST FETAL MONITOR/CART	0	EQP	2	2	0	0



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
14.1.026	293	NST ROOM	From RT.044	170.00





Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.045

Name	ULTRASOUND
Last modified	Harper, Espy, 8/25/2020 9:45 AM

Details	Groups / Classifications / Status
Programmed Area	152.00
Description	

General Requirements	
Occupancy, maximum	4

Access			
Doors/Openings 1	Wood	3 W ft.	7 H ft.
Locking mechanism	<input checked="" type="checkbox"/>	Privacy Lock	
No window	<input checked="" type="checkbox"/>	Preferably no exterior daylight	

Plumbing			
Sink/Basin	<input checked="" type="checkbox"/>	Qty. 1	Material Stainless Steel
Sink Faucet/Handle		Faucet Type Gooseneck	Handle Type Wristblade
Water supply - cold water	<input checked="" type="checkbox"/>		
Water supply - hot water	<input checked="" type="checkbox"/>		

Electrical		
Normal supply - single outlets	<input checked="" type="checkbox"/>	
Light dimmer	<input checked="" type="checkbox"/>	Wall sconces and ceiling mounted lighting
Task Lighting	<input checked="" type="checkbox"/>	Under Cabinet

Communications	
Data, standard	<input checked="" type="checkbox"/>

Finishes

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
Floor							
C2030.30.001	LUXURY VINYL TILE	0	FINISHES	1	1	0	0
Base							
C2030.30.002	RUBBER BASE	0	FINISHES	1	1	0	0
Wall							
C2010.100.001	PAINT	0	FINISHES	1	1	0	0
Ceiling							
C2050.80.001	ACOUSTICAL CEILING TILE	0	FINISHES	1	1	0	0

Furniture

Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E2050.30.008	VISITOR CHAIR	0	FURN	2	2	0	0

Equipment



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.045

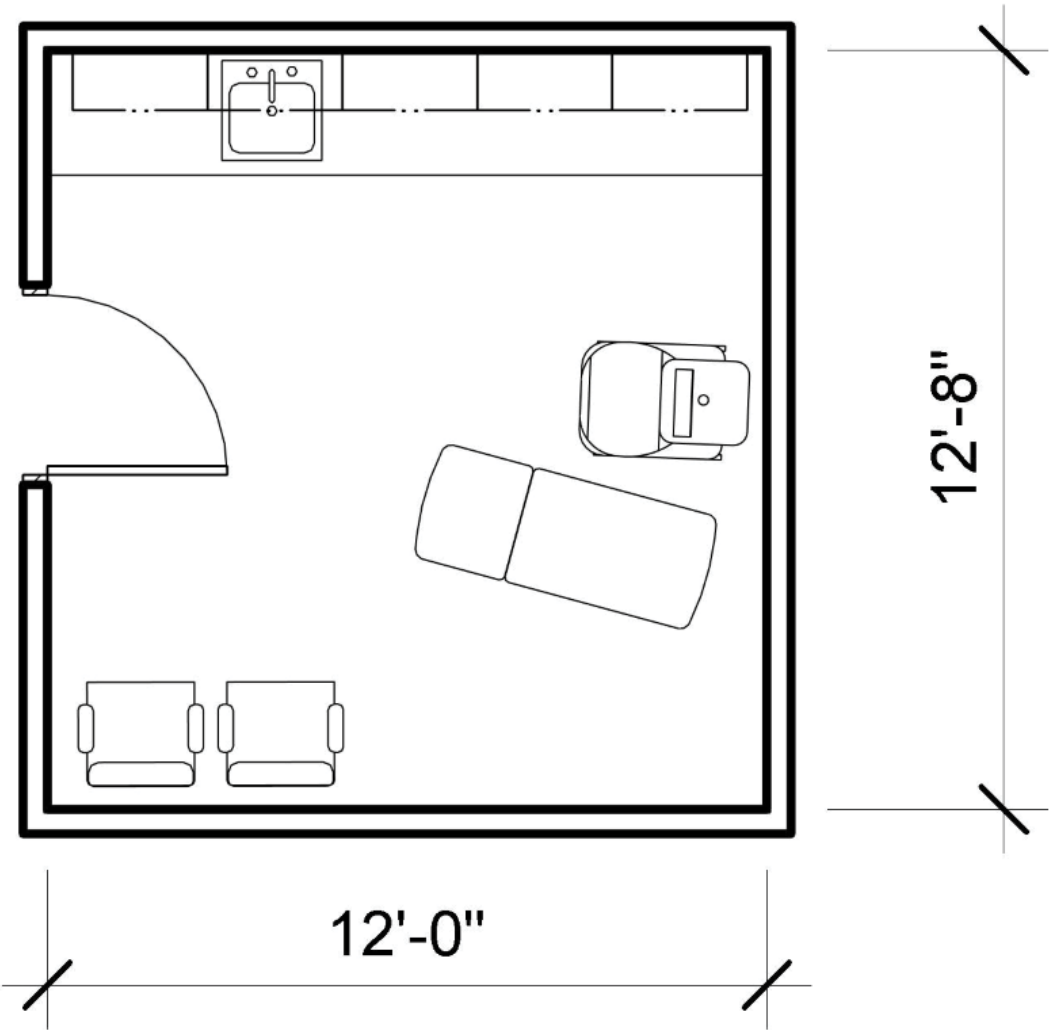
Item Number	Item Name	Priority	Responsibility	Quantity		Budget	
				Gross	Net	Unit price	Net price
E1040.20.005	PC	0	EQP	1	1	0	0
E1040.20.006	PAPER TOWEL DISPENSER	0	EQP	1	1	0	0
E1040.20.007	SOAP DISPENSER	0	EQP	1	1	0	0
E1040.20.010	WASTE RECEPTACLE	0	EQP	1	1	0	0
E1040.20.012	STOOL	0	EQP	1	1	0	0
E1040.20.014	SHARPS	0	EQP	1	1	0	0
E1040.20.016	GLOVE DISPENSER	0	EQP	1	1	0	0
E1040.20.028	COAT HOOK	0	EQP	1	1	0	0
E1040.20.029	SANITIZER DISPENSER	0	EQP	1	1	0	0
E1040.20.030	SPHYGMOMANOMETER	0	EQP	1	1	0	0
E1040.20.031	SOILED HAMPER	0	EQP	1	1	0	0
E1040.20.052	ULTRASOUND MACHINE	0	EQP	1	1	0	0
E1040.20.053	STRETCHER	0	EQP	1	1	0	0



Advanced Planning
Room Data Sheets

Wake County Public Health

Code: RT.045



Room Function Number:	Room Number	Room Name	Room Data Status	Programmed
14.1.041		ULTRASOUND	From RT.045	150.00

5 BUILDING CODES

WAKE COUNTY PUBLIC HEALTH CODE REVIEW

The type of construction for the new Wake County Public Health Building will be dependent upon the final program requirements and the amount of Assembly space required. The building could potentially be classified as Business occupancy if rooms used for assembly purposes are less than 750 SF with an occupancy load of less than 50 people, in which case these rooms are considered accessory spaces. If large meeting rooms in the new building will be greater than 750 SF, have more than 50 occupants, and/or take up more than 10% of the floor area, the occupancy would likely be Non-Separated/Mixed.

Special consideration will need to be given to code requirements for the lab spaces, which may include storage of hazardous materials (code section 414) and may be defined as a control area. Control areas must be limited in area and separated with fire barriers meeting stringent requirements. If the quantity of materials stored will need to meet the requirements for a control area, as exceeding this quantity would make the building a High Hazard occupancy which would be expensive to construct. If an atrium is considered during the design phase, NCBC Code Section 404 shall be followed for specific atrium design considerations including smoke control systems.

The allowable height of the building will be determined in part by where the grade plane for the building is set; due to the slope across the site, the lowest floor may potentially count as a basement. Final number of floors, height and area will be determined at later design phases. This code information is intended as a guide and is not to be used as a code requirement during design. The design

team considered two buildings, parking structure and public health building, for potential maximum height and area.

BUILDING ONE: S2 PARKING STRUCTURE - THREE-STORY BUILDING

Open Parking Structures shall follow NCBC Section 406.5.1 through 406.5.11 for uses, egress, types of construction, ventilation, fire protection and fire separation requirements. If the parking structure is connected or built close to the Public Health building, review fire separation requirements per Section 6. Based on the space available on site, we do not anticipate the need to design under Closed Parking Structure code requirements. With Type IIB construction, the allowable building height is 75' from the ground plane. A typical parking deck floor to floor height is around 11'. A 3-story parking structure building will be well under the allowable height. The allowable area is 50,000 sq. ft. per S-2 tier per Table 406.5.4.

BUILDING TWO: BUSINESS OCCUPANCY – THREE-STORY BUILDING

This building scenario assumes a sprinklered 106,817 SF building. With Type IIB construction, the allowable building height is 75' from the ground plane (not including the mechanical penthouse roof). The 75' roof height averages out a 15' floor-to-floor and floor-to-roof ratio for a 3-story building. However, this scenario requires that Assembly spaces are accessory to the Business occupancy. This designation applies to Assembly spaces that are less than 10% of the floor plate, or are less than 750 SF each and have less than 50 occupants. Type IIB Construction is a desirable option, as it does not require that the structure, bearing walls, etc. be fire-resistance rated, and would be more cost-effective than a Type IIA Scenario.

The allowable area of 69,000 sq. ft. per floor is greater than an anticipated 45,000 sf. ft. or less per floor which doesn't yet incorporate frontage increase.

6 DESCRIPTION OF SYSTEMS

Civil Narrative

Structural Narrative

Parking Garage Narrative

Transportation and Parking Narrative

Plumbing Narrative

Mechanical Narrative

Fire-Protection Narrative

Electrical Narrative

Interior Finish Narrative

CIVIL NARRATIVE

SANITARY SEWER

Existing public (City of Raleigh) sewer mains are currently located within the adjacent public streets in four locations around the perimeter of the site. Capacities of the sewer mains are not expected to be a concern, but this will be verified with the City of Raleigh as the project proceeds into the next phase.

An existing sewer manhole is located in the center of the intersection of Swinburne St. and Falstaff Rd. at the northeast corner of the site. This manhole is the upstream terminus of a sewer main that extends east down Falstaff Rd. away from the site. It is assumed that the existing sewer services from the two existing buildings (3000 and 3010 Falstaff Rd.) on the northern half of the site flow to this public manhole located in the intersection.

Another existing public sewer manhole is located in Swinburne St. approximately 300-ft north of the intersection of Swinburne and Kidd Rd. This is the upstream terminus of a sewer main that extends due east across Swinburne and extends beneath the Poe Center Playground. The sewer service for the existing Swinburne Bldg. is presumed to be connected to this manhole.

A third public sewer main is located in Kidd Rd. along the frontage of the large parking lot in the southwestern corner of the site and flows towards the south along the western property line of the EMS Station located across Kidd Rd. from the large parking lot. It does not appear that any sewer service from the existing site drains to this sewer although a sewer stub and manhole extends onto the County property near the southern edge of the parking lot.

The final public sewer main is located in Falstaff

Road near the northwest corner of the site and flows towards the west down Falstaff Rd. The manhole at the upstream terminus of this sewer main is located 100-ft from the northwest property corner of the site and is upgradient of most of the County property. It is unlikely that any existing facilities on the County property connect to this sewer.

Establishment of a sanitary sewer service for a new building located at the mid-block of Swinburne St. may face some obstacles due to the sag in elevation of the site in that area and no public sewer located in that location.

WATER SUPPLY

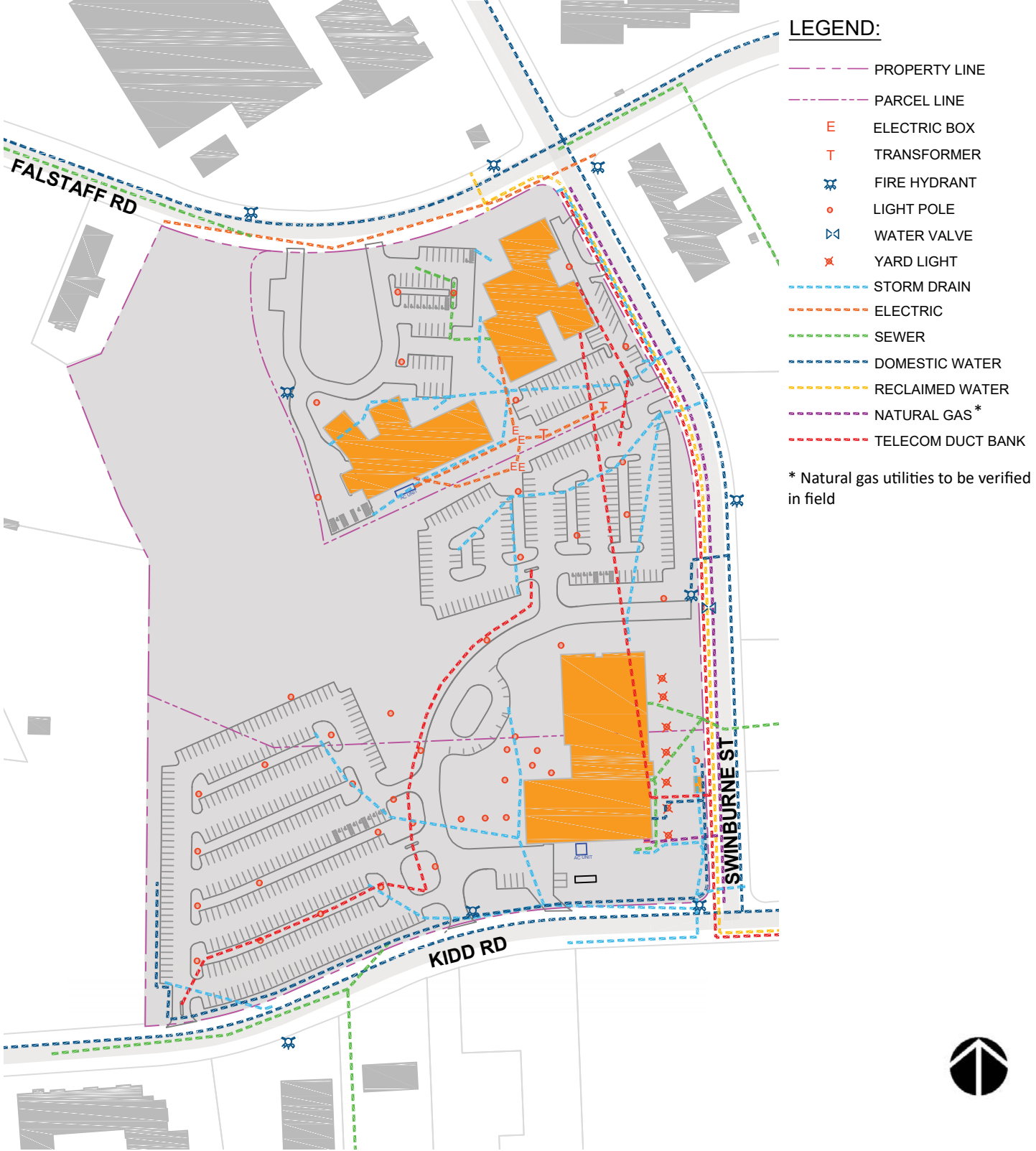
Existing public (City of Raleigh) water mains are currently located in each of the public streets that front the site on the north, south and east.

A 6-in DIP watermain is located the westbound lane of Falstaff Rd. on the north side of the site. This main appears to be the source of domestic water for the two existing buildings on the northern half of the site.

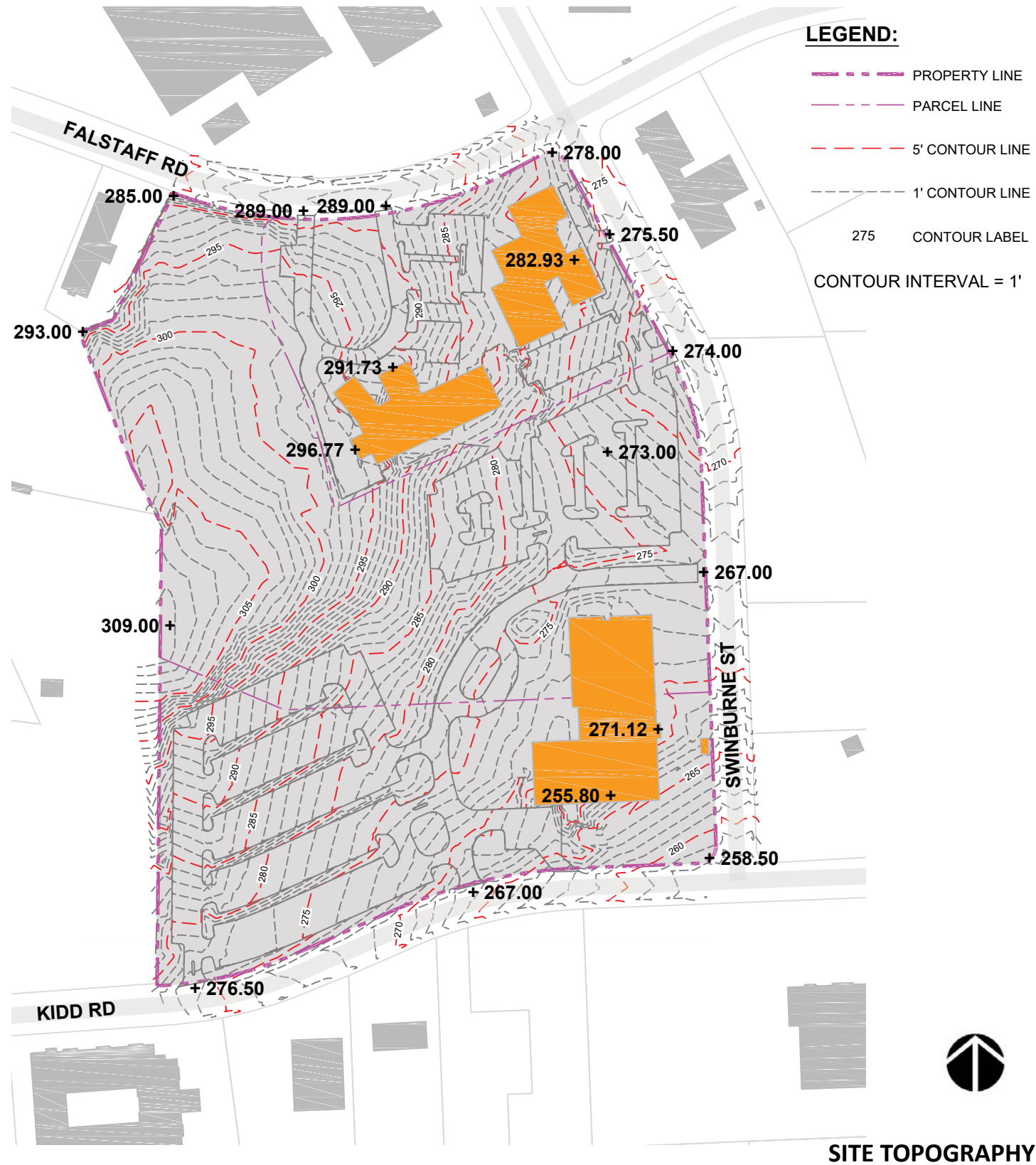
An 8-in DIP watermain is located in the northbound lane of Swinburne St. along the eastern frontage of the site. This main appears to be the source of domestic water for the existing Swinburne Building at the southeast corner of the site.

An existing 8-in DIP watermain is located in the westbound lane of Kidd Rd. along the southern boundary of the site.

Fire hydrant flow testing should be performed as the project design advances to verify existing water pressures and the available fire flow capacities of the existing watermains.



SITE UTILITIES



CIVIL NARRATIVE

RECLAIMED (NON-POTABLE) WATER SUPPLY

An existing 8-in public (City of Raleigh) reclaimed watermain is located in the southbound lane of Swinburne St. along the eastern boundary of the site. The main is supplied from the south and extends along Swinburne St. to the north to Falstaff Rd. and turns west and runs approximately 150-ft beneath the eastbound lane of Falstaff Rd. A reclaimed water service (presumably to feed an irrigation system) appears to be extended onto the County property at the terminus of this main in Falstaff Rd.

STORM DRAINAGE

Existing storm drainage infrastructure is present in most of the developed areas of the site to drain the existing parking lots and areas around each building. Storm drain pipes carry stormwater from the site at five primary locations.

A small area of the far northeast corner of the site, including most of the northern parking lot, drains into the existing public drainage system in Swinburne St. A public 18" RCP runs south along Swinburne beneath the western curb of the road to a point approximately 300-ft south of the intersection with Falstaff Rd and then crosses beneath Swinburne St. through a 24" RCP towards the east.

Most of the drainage around the two existing northern buildings drains towards Swinburne St. and connects to the aforementioned 24" RCP that drains across Swinburne to the east.

The large central parking lot located near Swinburne St. drains east towards the sag in Swinburne and crosses beneath Swinburne to the east through another 24" RCP.

The majority of the remaining portion of site, including the Swinburne Building and most of the large southern parking lot drains towards the southeast to the intersection of Swinburne St. and Kidd Rd. where it flows across Kidd Rd. through an existing 36" RCP towards the south.

The far west portion of the large southern parking lot drains through an 18" RCP to a drainage system in Kidd Rd. and across Kidd Rd. through a 24" RCP to the south.

The far northwest corner of the site drains to the north via surface flow to the existing surface drainage system (curb & gutter) of Falstaff Rd.

New development on the site may result in the requirement to detain stormwater to reduce peak stormwater discharge rates from the site to rates equal to or lower than the current conditions and/or to reduce the export of nutrients (nitrogen) from the site in stormwater runoff to allowable limits.

NATURAL GAS

Efforts to obtain maps of Dominion Energy natural gas mains were unsuccessful. However, historic drawings of the site indicate a natural gas main located in the southern shoulder of Falstaff Road and indications of a gas main in Swinburne Street feeding an existing gas meter at the southeast corner of the 220 Swinburne Building.

STRUCTURAL NARRATIVE

NARRATIVE OBJECTIVE

The purpose of this document is to define structural design considerations and provide commentary describing the structural systems, materials, loading and other design criteria for the proposed new public health building to be located in Raleigh, North Carolina.

PROJECT DESCRIPTION

The project consists of a new building to provide public health services for Wake County residents. The building is currently anticipated to be approximately 106,000 SF and likely two to three stories in height.

FOUNDATIONS

Since the exact building location and footprint is not yet determined, a complete geotechnical exploration and report has not yet been prepared. We have received and reviewed the “Report of Preliminary Subsurface Investigation” prepared by GeoTechnologies, Inc. dated August 31, 2020. This preliminary investigation included performing five test borings on the project site. The main purpose of this investigation was to generally classify the on-site soil conditions including the general presence of relatively shallow rock. Of the five borings performed, three of the borings encountered partially weathered rock at elevations below existing grade of 13, 3 and 2.5 feet. The remaining two borings experienced auger refusal on hard rock at a depth of approximately 10 feet below existing grade. These conditions may lead to difficult excavation during construction, especially in limited trench excavations for foundations and utilities.

The preliminary report notes that shallow foundations designed for 3000 psf (bearing on residual soils or

fill soils) to 8000 psf (bearing on partially weathered rock) will likely be achievable. We anticipate maximum column loads of approximately 300 kips. Assuming a three-story building with 30 feet column bays; a shallow spread footing of 10 feet square would be required utilizing the 3000 psf allowable bearing capacity. We understand that a basement/ below grade level is not anticipated, however, based on site grades and building footprint some building foundation walls may need to serve as retaining walls. Depending on heights of retainage, these walls will consist of either cast-in-place concrete or solid grouted masonry stem walls supported on a continuous wall footing. The project may also require some site retaining walls which would be of similar construction.

SLABS-ON-GRADE

The ground floor level of the building will typically be constructed with a 4 inch thick concrete slab-on-grade reinforced with welded wire reinforcing. Slabs will be supported by a layer of porous fill stone covered with a 15 mil vapor retarder.

BUILDING STRUCTURE

The structural framing system for the building is planned to consist of a structural steel frame consisting of wide flange columns supporting composite steel girders and infill beams spaced approximately 8 feet on-center supporting a 5-1/4 inch total thickness lightweight concrete slab on 2” deep x 20 gage galvanized composite metal deck. Lateral loads will likely be resisted by braced frames and bracing will consist of HSS tube members for the diagonal bracing elements. The roof level is anticipated to be framed with open web bar joists supporting a 1-1/2 inch metal roof deck. Given the building height, this would be the most efficient structural system.





STRUCTURAL NARRATIVE

BUILDING STRUCTURE - CONTINUED

In addition, a structural steel building provides the most flexibility for future building modifications and the most open floor plan.

All floor framing is anticipated to be designed for a minimum 100 psf floor live load and will also be designed to meet an open office vibration criteria. Some limited floor areas may require either heavier live loads or more stringent vibration performance for any sensitive medical or laboratory equipment. For initial pricing purposes, we would estimate the primary structural steel frame (columns, beams and joists) would weigh approximately 12 psf. Please note this tonnage does not include lateral bracing, miscellaneous framing, lintels/girts or connection material. A suitable allowance should be added to account for this additional material.

Exterior wall construction will likely consist of a combination of metal stud wall framing supporting a masonry veneer and/or metal panels along with curtainwall and storefront systems.

SPECIAL INSPECTIONS

Depending on the exact building height and occupancy count, the building may require special inspections in accordance with the North Carolina Building Code.

CODE REQUIREMENTS AND DESIGN LOAD SUMMARY

This project will be designed in accordance with the 2018 North Carolina State Building Code, which references the 2015 International Building Code and ASCE 7-10. Design criteria are as follows:

Risk Category: II (assumed)

<u>Live Loads:</u>		
Roof		20 psf
Elevated Floors (UON)		100 psf
Slabs-On-Grade		100 psf
Mechanical Space		150 psf
Light Storage		125 psf
Stairs		100 psf

<u>Snow Loads:</u>		
Ground snow load		15 psf
Importance Factor		1.0
Exposure Factor		1.0
Thermal Factor		1.0

<u>Wind Loads:</u>		
Ultimate Wind speed		115 mph
Exposure Category		B

<u>Seismic Loads:</u>		
Importance Factor		1.0
Site Class		C
Ss = 0.153		S1 = 0.076
Sms = 0.183		Sm1 = 0.129
Sds = 0.122		Sd1 = 0.086
Seismic Design Category		B
Basic Structural System		Building Frame
Seismic Force Resisting System: Structural Steel System not specifically detailed for seismic resistance		
R		3.0
Analysis Procedure: Equivalent Lateral Force		

PARKING GARAGE NARRATIVE

The proposed, stand-alone garage is precast concrete parking structure containing approximately 300 total parking spaces using 9'-0" wide x 18'-0" long parking stalls. Eight of these spaces are required to be accessible; two of which are required to be Van accessible. There will be 2-way circulation with 90-degree parking in all bays.

The parking structure is likely a 2-bay structure utilizing long-span precast concrete construction with center-to-center bay spacings of approximately 62' in the long-span direction and ranging from approximately 30' to 48' in the short direction. Due to the facility length and the desire to park on the ramps for increased efficiency, both parking bays are likely going to be ramped. End bays are flat, except being sloped for drainage.

The primary user group for the garage is most likely staff working in adjacent buildings on site. There may also be some Fleet Vehicles located within the parking garage. If public or visitor parking is provided within the garage, some additional enhancements and upgrades may be implemented to improve the user experience as this would be their "first impression" of the campus.

Vehicular access into the garage will occur from within the site, not directly from a roadway or street. The number and location of access points will depend on the final site layout. While multiple access points are desired for flexibility in operations, this size facility and anticipated user groups can be accommodated with one entry/exit location. Parking access controls (gates, proximity card readers, etc.) are anticipated at any vehicular access points to the garage.

The height from the ground level to the first elevated level is to be designed as a minimum of 12'-0" in order to provide a minimum clearance of 8'-2" to allow for ADA Van accessibility with a minimum of 2" tolerance. Elsewhere, the typical floor-to-floor height is planned at 11'-0" in order to provide a minimum clearance of 7'-2" (7'-0" code minimum plus 2" tolerance).

The garage façade will incorporate the precast structural elements in the design for overall efficiency and cost savings. Final façade design and aesthetics will balance between simple and intricate, while remaining within project budget.

OTHER

- One elevator may be sufficient to serve this parking garage based on number of spaces and levels.
- Neither vertical nor horizontal expansion of the parking garage is planned.
- The garage should be designed to allow for installation of photovoltaic panels above the top level.
- The garage is anticipated to have enough openings to allow the parking garage to be classified as an open structure.
- Motorcycle parking locations may be incorporated into this parking garage as the design develops.
- Bicycle racks may be located within or adjacent to the garage and will be based on final site layout and design.
- Interior finishes for entry vestibule and elevator lobbies may include painted concrete walls or similar upgrades if the user group also includes visitor/public parking.





PARKING GARAGE NARRATIVE

OTHER - CONTINUED

- Storage rooms/space below the ground level ramp will be included in addition to electrical rooms and ancillary service rooms. No mixed-use or occupied space will be located within the garage.
- Pedestrian movements within the garage, as determined at later design stages, must be carefully considered to minimize conflicts with vehicles and discourage the pedestrian use of the entry/exit lanes.

SAFETY AND SECURITY

Safety and security within the garage is critical. Both passive and active security measures shall be implemented in the final design. Stair and elevator towers should have increased visibility into and out of the spaces. CCTV will be used within the parking garage. Lower level screening to promote key pedestrian access points is being considered, depending on final site orientation. Emergency call stations (blue light phones) at each level at each stair will be provided.

SUSTAINABILITY

Standalone parking garages are not eligible for LEED certification, although they may achieve Parksmart Certification or contribute to points for an overall campus. Currently, there is no plan to pursue this Parksmart Certification.

Sustainable design practices will be incorporated into the design to provide a more energy efficient and environmentally responsible structure. Below is a list of sustainable items currently being evaluated or already included:

- The footprint will be reduced by maximizing the efficiency of the parking layout and still maintain an acceptable level of service for patrons. This approach can reduce the heat island effect when coupled with roof level reflectivity.
- Daylight that enters the parking garage reduces artificial lighting required during daytime hours of operation. This is improved through use of long-span construction to minimize the number of columns along the exterior and openness of the parking garage perimeter.
- Natural ventilation is being used to eliminate the need for mechanical system fans on the parking levels.
- Electric-car charging stations could be provided within the parking garage to promote use of energy efficient vehicles. Infrastructure shall be installed, at a minimum, to accommodate future EV charging.
- LED lighting will be used to provide an energy efficient lighting system, which reduces the power requirements necessary to adequately light the parking garage.
- Materials such as fly-ash and air-entrained concrete mix-design are being used to increase durability.
- It is intended that local materials (<500 miles from the project site) be incorporated into the structure. The most prevalent material is the precast concrete for the structure. Two precast production plants are within this distance.
- Low volatile organic compound (VOC) content has been specified for adhesives, sealants, primers, paints, and traffic coatings to reduce the negative impact to air quality.
- Incorporating bike racks on site promotes alternative forms of transportation.

PARKING GARAGE NARRATIVE

DURABILITY

The parking garage is to be designed for a 50-year design life. This is accomplished by considering long-term durability at each level of design. Therefore, the following concrete criteria are proposed to be included as a minimum:

- Concrete cover requirements of NCBC/IBC, ACI 362, and ACI 318 will be followed considering all above grade elements as exposed to weather.
- Durability requirements of the ACI Design Guide for the Design of Durable Parking Structures (ACI 362) shall be followed. This garage is located within Zone II.
- A maximum water-to-cementitious material ratio of 0.40 is required for all exposed concrete.
- Air entrained concrete shall be used for all concrete above grade except vertical elements such as walls and columns.
- Use a minimum of 10 percent fly-ash in the cementitious material for added durability and sustainability.
- Use concrete admixtures, such as corrosion inhibitors, to enhance durability. Corrosion inhibitors recommended to be included in all horizontal precast members, such as double tees, inverted tees, flat slabs, and wash pours; 2-3 gal/cy, to achieve 50-yr design life.
- Precast Flange-to-Flange Connections: Stainless Steel in lieu of galvanized or J coated finish.
- A penetrating silane sealer is to be installed on the entire top, exposed level and parking ramp connecting to level below, and to all washes and field toppings which include steel reinforcement.

FOUNDATIONS

A preliminary geotechnical investigation specific to this site has been provided by GeoTechnologies, Inc and is documented in a report dated August 31, 2020. The report indicates that shallow rock or boulders are likely present, but could vary significantly across the site. In addition, while groundwater was not encountered in the limited borings, perched water is possible.

Based on the report findings, the parking garage is anticipated to be supported by shallow spread footings using 3,000psf allowable bearing pressures. However, final site location of the facility may allow use of 8,000psf if bearing on partially weathered rock. Concrete utilized for the foundations shall have a minimum compressive strength of 4,000 psi and shall be a normal weight mixture.

WALLS

Grade level retaining walls will likely be required due to site grades and sloping lower floors. Concrete utilized for the walls shall have a minimum compressive strength of 5,000 psi and shall be a normal weight mixture.

SLAB ON GRADE

Ground floor slabs will be cast-in-place concrete slab on grade. The slab-on-grade within the parking structure is anticipated to be a 5-inch thick concrete slab (concrete strength 4,500psi min), reinforced with both steel welded wire fabric (WWF 6x6 W2.9xW2.9) and deformed reinforcing bars over a compacted, porous subgrade. Minimum 6"-8" of stone base/capillary barrier on top of compacted subgrade – use Aggregate Base Material Type I, Size 21-A or approved alternate.





PARKING GARAGE NARRATIVE

- ASCE 7-10: Minimum Design Loads for Buildings and Other Structures

SUPERSTRUCTURE

Precast structural system will be used for the parking garage generally consisting of 12' wide by 30" deep precast double-tee beams, 8" to 10" thick precast spandrels around the perimeter, precast inverted tee girders, precast columns, precast stair towers, precast shear walls, and 8" precast concrete lite-walls along center of the garage between the two ramps.

Precast will use 6,000psi concrete, minimum, and lightweight concrete (<125pcf) is not allowed.

OTHER GARAGE ELEMENTS

- Vehicular barrier restraint will be provided by spandrel panels on the exterior and a combination of barrier cables and fencing along the interior ramp walls.
- Fire extinguishers are anticipated within the garage.
- Dry standpipe fire suppression system is anticipated.
- Area drains in the low points of each parking floor will capture stormwater. Roof drains on the stair/elevator towers as well as stair tower landing drains are anticipated.
- Wash down hose bibs at each level are to be designed into the garage.
- An electrical generator is not anticipated.

APPLICABLE CODES AND REGULATIONS

The project will be required to comply with the following codes and regulations:

- Building Code: 2018 North Carolina Building Code ("NCBC"), based upon 2015 International Building Code
- Accessibility: 2018 North Carolina Building Code, ICC ANSI A117.1-09

TRANSPORTATION AND PARKING NARRATIVE

The proposed site was reviewed for site vehicular access, potential traffic impact, and multi-modal access. Parking demand was also considered, and likely off-street parking requirements were calculated based on current City of Raleigh code.

SITE VEHICULAR ACCESS

The proposed site is expected to have vehicular access from Falstaff Road and/or Swinburne Street, and both streets are maintained by the City of Raleigh. The street network in the site vicinity is generally well connected, with public street connections to the east to Sunnybrook Road and to the west to Donald Ross Drive. Sunnybrook Road and Donald Ross Drive connect to New Bern Avenue to the north and Poole Road to the south. New Bern Avenue and Poole Road are major east-west thoroughfares connecting to I-440 and downtown Raleigh.

TRAFFIC IMPACT

The project was reviewed for potential to warrant a Traffic Impact Analysis (TIA) per City of Raleigh requirements. Trip generation calculations based on an assumed 106,817 square foot facility were conducted and compared to City of Raleigh TIA thresholds. Specifically, the building as currently planned will include 96,817 gross square feet to be occupied upon opening of the building, and another 10,000 gross square feet to be built as shell space for future use.

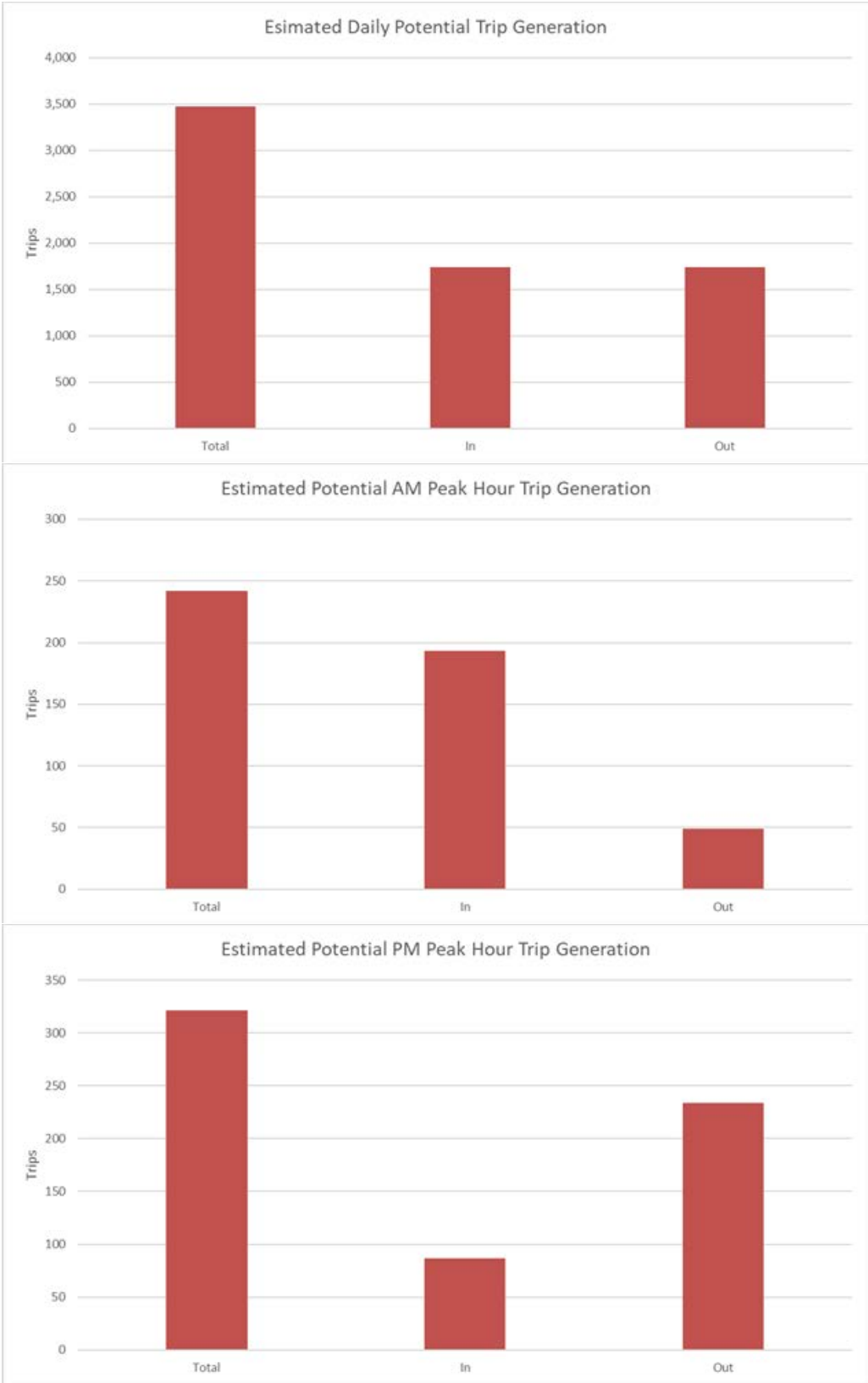
The building is understood to be a largely clinical facility, with some general office space as well. Of the 96,817 square feet to be occupied initially, 59,048 is expected to be medical / clinical space, 15,640 square feet will be general office space, and the remainder

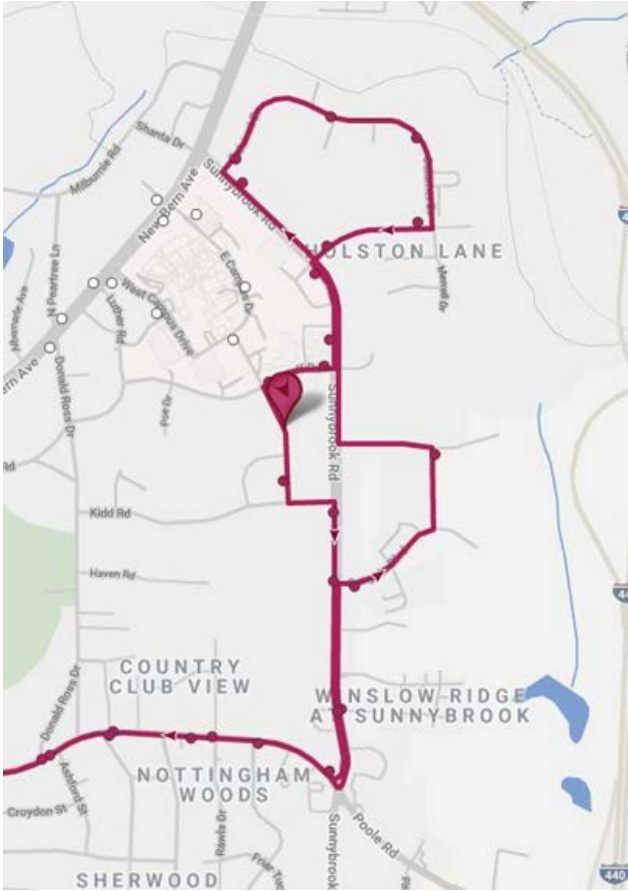
will be unassigned common space (e.g. building core elements, stairs, elevators, shafts, MEP rooms, conference center, food service, and mail room). Factoring up the square feet assigned to medical and office space in the initial building occupancy to the total 96,817 gross square footage of the initial occupancy, and adding the 10,000 shell space as all medical space, results in a total of 87,088 square feet of medical space and 19,729 square feet of office space in the full building gross square footage. These totals were applied to the Tenth Edition of the Trip Generation manual by the Institute of Transportation Engineers (ITE) to determine expected trip generation. The following graphs summarize the potential daily, AM peak, and PM peak trip generation of the development based on ITE methodology.

The City of Raleigh Street Design Manual provides thresholds above which a TIA is generally required. Two of those thresholds are as follows:

- Medical Office Buildings greater than or equal to 47,000 square feet
- Peak hour trip generation greater than or equal to 100 vehicles per hour (primary access from a 2-lane road)

Accordingly, the site is expected to require a TIA as a part of the City of Raleigh review process.





Source: Transloc



Source: City of Raleigh

TRANSPORTATION AND PARKING NARRATIVE

MULTI-MODAL ACCESS

The site is currently served by GoRaleigh Route 19, which provides all-day weekday service with 15-minute headways for most of the day, and 30-minute headways in the late evening. All-day service is also provided on Saturdays and Sundays, at 30-minute frequency. The route does not serve the site directly in the outbound direction (see route detail below), but inbound service (towards GoRaleigh Station in downtown Raleigh) stops on both Falstaff Road and Swinburne Street in the site vicinity. Weather-protected seating is provided at both stops.

The site is also relatively close to GoRaleigh Route 15 outbound service, with a stop at Swinburne Street and East Campus Drive on the WakeMed campus. This route is expected to be upgraded to Bus Rapid Transit (BRT) in the next five years, with very frequent service along New Bern Avenue and buses traveling in exclusive lanes. A rendering of the planned GoRaleigh BRT infrastructure is provided on the opposite page.

The site is also well served by pedestrian facilities, with sidewalks generally provided on both sides of all streets in the project vicinity. Pedestrians do encounter difficulty crossing Sunnybrook Road however, with only one crosswalk in an approximately 1-mile stretch of a 4-lane divided thoroughfare. That crosswalk (at the Falstaff Road signal) does have actuated pedestrian signal heads to help walkers cross the street safely.

Bicycle facilities are very limited in the site vicinity, with no nearby bike lanes or other infrastructure to protect people on bikes. Both Falstaff Road and Swinburne Street are identified for bike lanes on the City’s Long-Term Bikeway plan, and a separated bikeway is called out on Sunnybrook Road.

PARKING SUPPLY – EXISTING WAKE COUNTY HUMAN SERVICES FACILITIES

Based on information provided by the County, the current Wake County Human Services facilities on Swinburne Street and on Sunnybrook Road have the following existing parking supply and corresponding parking rate per 1,000 square feet of gross floor area:

PARKING SUPPLY EXISTING WAKE COUNTY HUMAN SERVICES FACILITIES		
	SWINBURNE STREET FACILITY	SUNNYBROOK ROAD FACILITY
BUILDING GROSS SQUARE FEET	161,520 SF	110,962 SF
STAFF & SERVICE PARKING PROVIDED	331 SPACES (2.05 / 1,000 SF)	270 SPACES (2.43 / 1,000 SF)
VISITOR PARKING SPACES PROVIDED	163 SPACES (1.01 / 1,000 SF)	290 SPACES (2.61 / 1,000 SF)
TOTAL PARKING SPACES PROVIDED	494 SPACES (3.06 / 1,000 SF)	560 SPACES (5.05 / 1,000 SF)

TRANSPORTATION AND PARKING NARRATIVE

PARKING SUPPLY - CONTINUED

The current facilities on Swinburne Street and Sunnybrook Road experience significant parking demand. At the Swinburne Street facility, vehicles routinely park on Falstaff Road, Swinburne Street, and Kidd Road, well exceeding the on-site parking availability. The Sunnybrook Road facility is better served with on-site parking, with the staff having 270 spaces in a parking deck shared with Wake Tech, and visitors having access to 271 spaces in parking lots north and south of the building. The Sunnybrook Road staff spaces average fairly high occupancy (recently averaging about 82% occupancy), while the on-site visitor parking is generally perceived as adequate at that facility. These findings correlate with the relative parking supply as noted in the table above. The Swinburne Street facility is parked at 3.06 spaces per 1,000 square feet, while the Sunnybrook Road building is parked at a much higher 5.05 spaces per 1,000 square feet. Most notably, the visitor parking at the Sunnybrook Road facility is supplied at over 2.5 times the rate of the Swinburne Street visitor parking.

PARKING DEMAND - PROPOSED FACILITY

The Raleigh Unified Development Ordinance (UDO) was first consulted to determine the likely parking requirement for the proposed facility. The UDO lists the following applicable parking requirements:

- For Medical and Dental Office: 1 space per 300 square feet of gross floor area (3.33 per 1,000 square feet)
- For General Office: 1 space per 400 square feet of gross floor area (2.50 per 1,000 square feet)

Using the same assumptions as in the Trip Generation calculations above (87,088 square feet of medical

space and 19,729 square feet of office space), the facility would be expected to be required to provide approximately **340 parking spaces** based on Raleigh UDO parking requirements. This results in a blended parking ratio of 3.18 per 1,000 GSF which is close to the existing Swinburne Street facility ratio. The Swinburne Street facility, as previously noted, is currently experiencing on-site parking shortages.

Looking at likely parking supply required based on market conditions, the following rates are commonly applied in the Raleigh market:

- For Medical Office: 4.0 spaces 1,000 square feet of gross floor area
- For General Office: 3.0 spaces per 1,000 square feet of gross floor area

Using the same assumptions as in the Trip Generation calculations above (87,088 square feet of medical space and 19,729 square feet of office space), the facility might be expected to demand approximately **408 parking spaces** based on commonly applied parking rates in the Raleigh market. This results in a blended parking ratio of 3.82 per 1,000 GSF, which is close to an average of the two existing facilities' parking ratios.

It should be noted that these parking demand values represent potential demand for the proposed facility only, and do not include either additional parking to better supply existing facilities with parking, or any required parking spaces to replace existing spaces potentially displaced by the new development. During site planning all aspects of the developed site, including parking demand from existing buildings to remain and parking supply being removed with surface lots being lost, should be carefully evaluated. This is especially important in light of the current Swinburne Street facility appearing to have more demand than supply on a regular basis.

PLUMBING NARRATIVE

APPLICABLE CODES, REGULATIONS AND STANDARDS

The design of the new suites will be governed by the requirements of the 2018 editions of the North Carolina Mechanical Code, NC Plumbing code, NC Fuel Gas Code, Wake County Design Guidelines, and Wake County Energy Guidelines.

SYSTEM TYPE

DOMESTIC WATER:

Must demonstrate a 25% reduction in water consumption per Wake County Energy Guidelines.

- Domestic water will be supported by the municipal water systems.
- The estimated size of the main water service pipe required by the facility is 4" diameter.
- Domestic water will be separated into a potable water system for general building areas, exterior wall hydrants and HVAC makeup. Reduced pressure backflow assemblies will be provided for each system.
- Duplex water pressure booster pumps may be provided to maintain a minimum of 40 psig at the most remote plumbing fixture and/or equipment pending the outcome of pressure testing existing lines. The domestic water pump assembly system if required will include vertically mounted end-suction pumps and motors using variable frequency drive. The pump skid will be tied into emergency power and the BMS.
- The domestic will be designed to maintain a maximum velocity of eight fps in mains, four fps in branches at designed flow conditions. Design of the domestic will be based upon fixture unit values adjusted/increased to allow for projected water demand for various mechanical and lab

equipment.

- The systems will be designed to prevent water hammer conditions by utilizing shock arrestors for required individual fixtures, quick closing valves and batteries of fixtures.
- Shut-off valves will be provided at branch connections for the isolation of piping sections for maintenance and repair.
- Vacuum breakers will be provided at all lab faucets, fume hood water outlets and hose bibs.
- Underground water service piping will be cement-mortar lined ductile iron with push-on or mechanical joints.
- Potable water service piping inside the building will be Type "L" copper with lead-free solder joint wrought copper or brass fittings.
- Electric water coolers will be provided throughout the building as required by code.
- Hose bibs will be provided in toilet rooms and mechanical rooms. Non-freeze wall hydrants will be provided as determined desirable or at 100 ft. intervals around the building perimeter.
- Water piping will be insulated to prevent condensation on cold piping and to reduce thermal losses on hot piping.

WATER HEATERS:

- Water heaters will be gas-fired condensing types with nickel or copper lined ASME storage tanks. Estimated (2) -199 MHB input condensing water heaters and a storage tank. The total recovery rate should be accounted for 100 degrees F rise.
- Circulating pumps will be provided to assure available of hot water throughout the building.
- Water temperature regulators will be provided for each emergency shower/ eyewash unit. Water will be provided at 85 degrees.
- Air intake and vent for water heater per manufacturer recommendations. Stainless steel vent pipe and CPVC intake pipe.



PLUMBING NARRATIVE

SYSTEM TYPE - CONTINUED

SANITARY WASTE DRAINAGE SYSTEMS:

- Estimated maximum 6” pipe sanitary waste drainage.
- Sanitary waste from fixtures and equipment in general building areas will be routed by gravity through a separate waste and vent system to the sanitary sewer service.
- Aboveground sanitary waste piping will be hub-less, cast iron soil pipe with no-hub, heavy duty stainless steel coupling assembly and neoprene gasketed joints. Underground sanitary waste piping will be bell and spigot service weight cast iron soil pipe with neoprene rubber compression-type gasket joints.
- Flow rates and pipe sizes will be calculated based on drainage fixture unit values and adjusted/ increased to allow for projected wastewater discharge from various type of mechanical equipment.
- Cooling condensate from walled mounted, ceiling mounted DX systems will be pumped to janitor mop sink or nearest floor drain.
- Grease interceptor are dedicated for cafeteria spaces.
- Laboratory waste, if required, from fixtures and equipment in the labs will be routed by gravity through a separate laboratory waste and vent system. The lab waste will be routed through a central acid neutralizing basin before being discharged into the sanitary sewer service. Basins shall be of a duplex configuration to maintain system service in times of maintenance.
- Waste water discharge from dental clinic shall comply with EPA, State and local regulations.

SPECIALTY EQUIPMENT/MEDICAL GASES:

- Compressed air system and distribution piping might be required for fume hoods, labs and breathing/medical devices. If required, a scroll, oil-less air compressor system is preferred.
- Oxygen for inhalation, hoods, labs. Oxygen tank, if required, is furnish by owner.
- Nitrogen come from manifold of cylinders and piped at pressure with an alarm system at the source.
- Carbon Monoxide monitor.
- Federal Regulation Part 441 Dental Category Compliance. Wastewater discharged, waste amalgam, separator, vacuum pump, traps, filters etc. must comply to 40 CRF Part 441

NATURAL GAS SYSTEM:

- Natural gas will be supplied by PSNC at 2 psig min. gas pressure.
- The plumbing contractor will connect to the new gas meter outlet and install all building side piping.
- Gas pressure regulators will be provided to reduce the gas pressure at each appliance.

STORM WATER DRAINAGE SYSTEM:

- Storm drainage from roof drains will be conveyed by a separate gravity system and connected to the exterior storm sewer piping system.
- Storm drainage from roof drains will be conveyed by a separate gravity system and connected to the exterior storm sewer piping system.
- Storm pipe material shall be cast iron, the same as Domestic Sanitary Waste and Vent. Horizontal runs of pipe shall be insulated with 1” think fiberglass jacketed insulation.

SYSTEM TYPE - CONTINUED

STORM WATER DRAINAGE SYSTEM - CONTINUE:

- Secondary roof drainage will be provided by overflow scuppers where the roof perimeter construction extends above the roof in such a manner that water can be entrapped if the primary drains fail.

PLUMBING FIXTURES:

- Maximum 1.28 gpf for water closets, 0.25 gpf for urinals, and 0.5 gpm for lavatory faucets or 0.125 gpc for lavatory metered faucets.
- Toilets will be wall-mounted by carrier fixtures.
- Plumbing fixtures will be selected to be ADA compliant.
- Sensor faucets will be used to provide touch-free restroom facilities.
- Fixtures shall be vitreous china with cast brass trim.
- Bi-level wall mounted water coolers will be vinyl clad stainless steel.
- Mop Sinks shall be floor mounted terrazzo with stainless steel rim and tiling flanges.
- Stainless Steel sinks in break rooms and clinics.

INSULATION AND PIPE IDENTIFICATION:

- All piping, components and equipment subject to sweating, heat loss or freezing will be insulated with appropriate thickness of fiberglass insulation with an all service jacket.
- All piping in accessible areas will be indicated with system and direction of flow through color-coded labels.

MECHANICAL NARRATIVE

DESIGN CRITERIA

CODES AND STANDARDS:

The Mechanical Systems will be designed in accordance with the local codes of the Authority Having Jurisdiction (AHJ) and the following National Codes:

- North Carolina Building Code, 2018 Edition
- North Carolina Mechanical Code, 2018 Edition
- North Carolina Energy Conservation Code, 2018 Edition
- North Carolina Fire Code, 2018 Edition
- American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE)
- American National Standards Institute (ANSI)
- Sheet Metal Association-Contractors National Association (SMACNA)
- Wake County Energy Design and Management Guidelines

The mechanical heating, ventilation, and air conditioning (HVAC) system will be designed using the following criteria:

- 1)

Outdoor Design Conditions:

a.

Winter dry bulb temperature:

16°F

b.

Winter wet bulb temperature:

13°F

c.

Summer dry bulb temperature:

95°F

d.

Summer wet bulb temperature:

76°F
- 2)

Indoor Design Conditions-Winter

a.

Office/Admin/Meeting/Clinic:

68°F +/- 5°F db.

b.

Humidity (occupied spaces except kitchen):

40% RH +/- 10%RH

c.

Kitchen/cafeteria

70°F +/- 5°F,

d.

Equipment Rooms:

65°F +/- 5°F

- 3)

Indoor Design Conditions-Summer

a.

Office/Admin/Meeting Areas/Clinic:

75°F +/- 3°F db.

b.

Humidity (occupied spaces except kitchen):

45% RH +/- 15%RH

c.

Kitchen/Cafeteria

75°F +/- 5°F

d.

Equipment Rooms:

75°F +/- 10°F
- 4)

Occupancy:

a.

Office:

1 person per 140 gSF

b.

Common Spaces:

1 person per 250 gSF

c.

General Labs/Clinic:

1 person per 100 gsF
- 5)

Internal Heat Gain Assumptions:

a.

Lighting loads:

1.

Office:

0.7 W/nSF

2.

Common Spaces:

0.7 W/nSF

3.

Labs:

0.8 W/nSF

b.

Power Loads:

1.

Office:

2 W/nSF

2.

Common Spaces:

1.5 W/nSF

3.

Labs/Clinic:

2.0 W/nSF (or known equipment load)

4.

Data/Electrical:

18000 BTU per rack or know load.

6)

Ventilation Loads

a.

Office:

20 cfm per person (or per ASHRAE 62.1)

b.

Common Spaces:

0.5 cfm per gSF (or per ASHRAE 62.1)

c.

Local exhaust and make up air to maintain negative pressure in specialty labs/clinics.

7)

Minimum Space Air Change Rates

a.

Office:

as required to maintain temperature

b.

Common Spaces:

as required to maintain temperature
- A photograph of a mechanical room. Large blue-painted pipes and ductwork are visible, running vertically and horizontally. There are several large, cylindrical HVAC units or chillers. The room has a concrete floor and white walls. The lighting is bright, coming from overhead fixtures.
- 180

WAKE COUNTY

NORTH CAROLINA

OBIA

O'BRIEN ATKINS

LS3P

WAKE COUNTY PUBLIC HEALTH BUILDING- PROGRAMMING AND ADVANCED PLANNING

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MECHANICAL NARRATIVE

DESIGN CRITERIA - CONTINUED

- 8) Acoustics and Vibration
- a. Office/Clinic: 35-40 NC

b. Common Spaces: 35-40 NC

c. Conference Rooms: 25-30 NC

d. Mechanical/Electrical Rooms:55 NC

e. Vibration Attenuation: All mechanical equipment shall follow ASHRAE Applications, Chapter 46 or as recommended by the vibration consultant.
- 9) Ductwork Sizing:
- a. Supply/Exhaust/Return Medium Pressure Ductwork (located between air valve/terminal box and fan)

1. maximum velocity 2,500 fpm (including future growth)

2. minimum velocity 1,700 fpm (not including future growth)

b. Supply/exhaust Low Pressure Ductwork (all other ductwork).

1. 0.08” to 0.1”w.g./100’
- Consider UV lights in duct.
- 10) Space Pressure Relationships
- The building will be positive (air moving out of the building) relative to the outdoors to reduce infiltration and drafts.
- Laboratory spaces will be negative (air moving into the laboratory space) relative to adjacent non-lab areas.
- i. The direction of airflow in the laboratory areas will be from least hazardous to most hazardous.

ii. Clean spaces will be positive (air moving out of the laboratory space) relative to adjacent less clean areas.

- 11) Equipment Maintenance
- a. All mechanical systems and devices will be designed to facilitate regular maintenance functions.

b. Adequate service clearance to all equipment, which enhances movement of personnel and equipment, will be provided.

c. Equipment will be kept out of congested and difficult to reach locations.

d. Equipment requiring maintenance will be kept out of hazardous areas to the greatest extent possible.

e. Adequate clearance will be provided at all equipment to enable removal and replacement of equipment, without requiring prior disassembly.
- 12) HVAC Systems Balancing:
- a. All air handling systems (supply and exhaust) will be balanced for the specified airflow rate and system static pressure. The accepted tolerance will be +/- 10%.

b. Medium pressure and special system duct systems will be pressure and leak tested in accordance with SMACNA standards
- 13) Insulation and Pipe Identification:
- a. All piping, components and equipment subject to condensing, heat loss or freezing will be insulated with appropriate thickness of fiberglass insulation with a fire-resistant jacket.

b. All piping in accessible areas will be indicated with system and direction of flow through color-coded labels.

SUPPLY AIR SYSTEM

The entire 106,000 sf building will be supported via chilled water air handling units with terminal VAV reheating. One AHU per floor and. following characteristics to support their respective zones:

- The systems will be variable volume, medium pressure distribution with a Variable Frequency Drive (VFD) on each of the supply fans to maintain constant duct static pressure. Air will be delivered at a temperature of 54°F to all zones. Each return fan will also have VFD’s.
- AHU casing will be double wall, 18-gauge with minimum 2” internal insulation.
- Cooling coil shall have a 304 stainless steel coil casing around cooling coil.
- Fan and internal motor shall be mounted on spring isolators.
- Demand controlled ventilation is integrated
- Air will be supplied through pressure independent, terminal air valves with hot reheat coils for interior zones and/or parallel fan powered hot water reheating for exterior zones with high density occupancy.

Each air handler unit (AHU) will be located in a separate mechanical room and serve the entire floor. AHU will be the same size for each floor. Total AHUs load is estimated of 320 tons cooling.

The components of each AHU are as follows: plenum return fans section, Access section for maintenance, Air mixing/economizer section - relief air/intake, filter section (30% roughing filter, 85% prefilter, MERV 13 minimum), heating hot water coil section, chilled water cooling coil section, access section, plenum supply fans section, and discharge section.

UV lighting in AHU or ductwork shall be considered.

The **Main Electrical room** shall have a **dedicated CRAC unit** (computer room air conditioning). CRAC units shall have a DX coiling, a chilled water-cooling coil back up, electrical reheat with outdoor condensers.

Chilled water fan coil units for small electrical rooms.

The Sever room (2 rack or less), Data/phone shall have dedicated DX split system unit. Ductless system shall have DX coiling, electrical reheat with outdoor condensers.

Pharmacy area shall have dedicated DX split system unit on generator. Ductless system shall have DX coiling, electrical reheat with outdoor condenser.

Enclosed staircase shall have electric heating units. **Heaters, 3 to 5 kw, serve these staircases.**

The **elevator control rooms** shall have **dedicated split system units**. Split system units shall have DX coiling with outdoor condensers.

Dedicated Make-Up Air Unit to provide supply air for specialty exhaust, grease exhaust, lab fume hoods.

EXHAUST AIR SYSTEMS

1) General/toilet exhaust air will be exhausted through ceiling grilles that complement the supply diffuser materials, color, and finishes. The exhaust system will be supported by an upblast exhaust fan on the roof. General Room/Toilet Exhaust to maintain constant exhaust airflow at all times.

2) The fume hood and general lab exhaust duct system will be manifolded as recommended by AIHA Z9.5, American National Standard, Laboratory Ventilation, and consistent with the NC Mechanical Code, Section 510, Hazardous Exhaust Systems. Laboratory fume exhaust fans shall be located in the ventilated penthouse or on the roof as the building design requires. Laboratory exhaust fans and ducts shall be separated from other systems by a 2 hour enclosure.

MECHANICAL NARRATIVE

COOLING SYSTEM

Estimation is based on 106,000 sf building.

- 1) The Chilled Water system will have the following components:
 - a. Chilled water for the building HVAC loads will be provided from two (2)-200 Ton water cooled magnetic bearing chillers and (2) 200 ton cross flow cooling towers. The largest source of energy cost is chiller, magnetic bearing chiller therefore is recommended to achieve the energy design and management guideline. Owner prefers screw/ centrifugal chiller system, if the building can demonstrate a 14% reduction in energy cost saving compared with the baseline building according to ASHRAE90.1-2010, Appendix G.
 - b. A 12°F temperature differential will be maintained on the chilled water system.
 - c. The building chilled water pumping will be a primary/variable secondary variable pumping system with (2) pumps in (n+1) secondary redundancy.
 - d. Condenser loop will be circulated by 2 pumps.
 - e. The advanced, magnetic bearing, permanent magnet synchronous motor technology with compressor-mounted VFD chillers offers IPLV is as low as 0.328 kw/ton.
 - f. Chilled water piping material shall be provided as follows:
 - 1. 2” and smaller piping will be Type L copper with sweat fittings.
 - 2. Pipe sizes larger than 2” will be schedule 40 black steel with welded fittings.
 - 3. Piping shall be insulated with fiberglass pipe insulation
- 2) There will be (2) cooling towers. Location prefers closer to chiller room. Cooling towers sit on structure platform next to mechanical/chiller room.

HEATING SYSTEM

- The Heating System will have the following components:
- 1) Two (2) 1,750 MBH hot water condensing boilers will produce heat for the building
 - 2) A minimum 20°F temperature differential will be maintained on the boilers.
 - 3) Heating hot water piping will be constructed of the following:
 - a. Piping 2” and smaller will be Type L copper with sweat fittings.
 - b. Piping 2” and larger will be schedule 40 black steel with welded fittings.
 - c. Piping shall be insulated with fiberglass pipe insulation.
 - 4) The pumping system will be a variable primary system utilizing end-suction pumps with VFD’s for variable water circulation through the distribution system. Two (2) primary pumps.
 - 5) A 20°F temperature differential will be maintained on all hot water reheat and preheat coils (if required).
 - 6) Heating hot water piping will be constructed of the following:
 - a. Piping 2” and smaller will be Type L copper with sweat fittings.
 - b. Piping 2” and larger will be schedule 40 black steel with welded fittings.
 - c. Piping shall be insulated with fiberglass pipe insulation.
 - 7) Each of the terminal air valve units will have heating hot water reheat coils to maintain room temperature. The coils will be sized to heat the incoming air to offset building heat loss.
 - 8) The heating system will utilize an outside air temperature reset schedule to optimize energy performance.

BUILDING MANAGEMENT SYSTEM

- The controls architecture will be a complete stand-alone PC based direct digital control system (DDC) with digital and analog sensors, operators, receiver controllers, alarms, etc., which communicates over a dedicated, high speed local area network (LAN) to provide automated control and monitoring of various mechanical and building systems.
- The BMS system will follow Wake County’s latest edition of Division 25 Building Automation System Design Guidelines.
- The Building Automation System (BAS) will be primarily electronic. The Constant Volume and Variable Volume terminal boxes will have electronic DDC controllers with electronic damper actuators and electronic hot water reheat control valves:
- The system shall be provided with supervisory protocol to allow off-site reading and override control from a remote location.
- The controls shall be established to operate continuously and automatically. Each controller includes all hardware, software, signal conditioning and termination devices to provide full monitoring and control of its data environment:
- 1) Power conditioning (isolation transformers) shall be used.
 - 2) Controller’s power shall be provided from a building emergency power system, via a local Uninterruptible Power Supply system.
 - 3) Networked controllers in the building are connected by a communication data highway which consists of two-wire twisted cabling. Each controller is capable of peer-to-peer communication for sharing of point status and value information. Communication from one controller to another does not depend on a central host computer. Controllers

- will have an integral operator interface panel, which will allow facility personnel the ability to locally interrogate parameters of the controller.
- All alarms shall be sent from each Controller directly to the Facility Operator Workstation.
- The BAS Operator Workstation consists of the following equipment:
- 1) CPU
 - 2) Monitor
 - 3) Printers (Alarm and Trend/log)
 - 4) Data Archive Media.
- The BAS will be equipped with a universal timeclock schedule to index occupied and unoccupied modes:
- 1) The HVAC equipment shall operate continuously, but with the following schedule:
 - a. Except as noted, occupied mode shall be 10 hours a day, 7 days per week, starting at 0700.
 - b. Data Room operates 24/7.
 - 2) The temperature in the office spaces will be allowed to reset to 85°F in the summer and 65°F in the winter.
 - 3) All areas will have override controls for times when the spaces are occupied beyond the set hours of operation.
- Control Sequences:**
- To be identified in the future construction documents with input from Wake County staff.

FIRE-PROTECTION NARRATIVE

AUTOMATIC SPRINKLER PROTECTION:

The building will be provided throughout with an automatic sprinkler system.

The fire protection design demands will be based on state and local codes, standards and ordinances; owner’s insurance requirements; and the recommended densities contained within this report. The design densities and remote areas of the fire protection systems should be designed in accordance with this report. A listed fire pump is required to supply the sprinkler systems, standpipe systems and hose valves. The determination of the fire pump size will be made upon further investigation of the sprinkler demand and water supply:

- Wet pipe fire protection will be provided throughout the enclosed portions of the new construction. The building will have a combined sprinkler standpipe system. Automatic sprinkler systems, standpipe systems, and hose systems will be supplied from City Water Mains. A new electric fire pump or diesel fire pump is required based upon required demand and available water supply (size to be determined).
- All electrical and telecommunication rooms will be provided with wet pipe sprinklers systems unless otherwise noted.
- The building will be provided with a single fire department connection. The fire department connection will be located in the loading dock (refer to civil plans) within 100 feet of an outside city fire hydrant connected to a water main that meets the required fire flow for the building. The connections shall be sized to meet the hydraulically most demanding standpipe and sprinkler system demand.
- Hose valves for standpipe systems will be 2.5 inch in diameter with 1.5-inch reducers. Hose threads

will match the thread requirements of the City Fire Department (City of Raleigh now on NST Threads).

- Water flow switches, valve tamper switches, high and low pressure switches and supervisory points on the sprinkler and standpipe system will be electronically supervised at the remote fire alarm annunciation panels located at each building’s main entrance lobby (to be determined).



ELECTRICAL NARRATIVE

CODES AND STANDARDS

The electrical design shall, as a minimum, comply with the latest edition of the following codes and standards:

- NFPA 70 - National Electrical Code
- NFPA 70E – Handbook for Electrical Safety in the Workplace
- NFPA 72 - National Fire Alarm Code
- NFPA 75 - Protection of Electronic Computer/Data Processing Equipment
- NFPA 780 – Standard for Installation of Lightning Protection Systems
- NFPA 101 - Life Safety Code
- NESC – National Electrical Safety Code
- UL – Underwriters Laboratories, Inc.
- NEMA – National Electrical Manufacturers Association
- IEEE – Institute of Electrical and Electronic Engineers
- ADA - Americans with Disabilities Act
- North Carolina State Building Energy Code
- North Carolina State Building Codes and Regulations
- Wake County “Design Guidelines and Standards” (Effective July 31, 2013)
- Wake County “Energy Design and Management Guidelines” (2018 edition)

SITE ELECTRICAL AND UTILITY SERVICE

One (1) nominal 24.94Kv-480/277V 3 ϕ , 4 wire, oil-filled transformer will be provided by Duke Energy to serve the 480V distribution system in the building. It is also anticipated the Duke Energy service will be derived from known primary conductors existing along Falstaff Road. The building transformer capacity requirement is anticipated to be 2500 kVA (maximum) and the unit will be pad-mounted. At this time, it is anticipated the Parking Deck will be

on a common service with the building. The final size of utility transformer is at the sole discretion of Duke Energy based on final loads submitted to the utility from the Engineer or Record. A primary electrical duct bank, utilizing manholes as required, will be installed as required for power service to the facility and in compliance with Duke Energy published requirements. The electrical primary duct bank will consist of a minimum two (2) 6” PVC Schedule 40 conduits for each transformer, encased in concrete containing red dye. Medium voltage primary (nominal 24.94kV) conductors will be supplied and installed by the utility company.

All conduit used to connect secondary electrical service to the facility shall be Schedule 40 PVC in a concrete encased duct bank. Where manholes are required, the manhole and building electrical service shall be provided with code compliant ground rods and will be connected to the building ground ring as described in the section on grounding.

Conduits will be provided from the existing, nearest communications duct and manhole system to support telephone, instructional television, fire alarm, and HVAC control and monitoring. The conduit requirements and existing communications service location will be coordinated with the local telecommunications utility designated Project Manager. The system will also be coordinated with the latest edition of the BICSI Telecommunications Infrastructure Standard, and Wake County Division 27 Communications-Data Standards. The communications duct bank to the building will consist of a minimum of (4) 4” conduits encased in concrete.

ELECTRICAL NARRATIVE

BUILDING ELECTRICAL SERVICE

The main electric service room will be located within the building on the ground floor. The room will be required to have 480 SF NET area at a minimum. This will include a 60 SF separate, dedicated, 2-hour emergency (NEC 700) electrical room. One dimension of the room must be minimum of 19’-0” clear. All feeders out to emergency panels on the floor of the building will be contained in a 2-hour fire rated enclosure.

Secondary feeders, consisting of 480V, 3-phase, 4-wire, 4000 amp, THHN/THWN or XHHW copper conductors, shall be installed from the transformer secondary compartments to the switchboard. The feeders shall be paralleled and installed underground in schedule 40 PVC conduit encased in concrete containing red dye and marked with underground electrical marker tape. Transformer secondary feeders in the duct bank will be comprised of 10 sets of 4 #600KCMIL copper conductors.

One (1) 4000 Amp, 480/277 Volt, 3 phase, 4 wire service will be installed in the main electrical room to serve the building loads. A short circuit study will be conducted using Power Tools for Windows, ETAP, or equal software to determine electrical equipment short circuit interrupting ratings. Designer short circuit buss-bracing values shall be included in the documents to facilitate a basis for bid. Short Circuit and Flash Analysis will also be required of the switchgear manufacturer specific to the actual switchgear and distribution components that are awarded the project. Arc-flash ratings will be posted on the equipment by the equipment manufacturer. The manufacturer’s short-circuit analysis shall be signed and sealed by an independent engineer with current registration in the State of North Carolina.

SWITCHGEAR BASE DESIGN: The switchgear cabinet will consist of draw-out type construction utilizing rack-mounted circuit breakers with a 4000A amp copper buss equipped with a copper neutral and ground bar. This will allow distribution circuit breaker maintenance without a whole-building shut-down. The switchgear shall be equipped with a digital metering system for owner use. The digital meter shall be gateway equipped (BACnet, MODbus) to interface with the building management system. Draw-out technology branches will be used in the switchgear to allow electric service to remain active to any areas and equipment while selected feeders or loads are serviced. Phase loss (single phasing) protection will be provided. Draw-out breakers will be LSIG type. The switchgear construction will be U.L. 1588, 30 cycle.

The switchgear will be manufactured by one of the following. The order of listing is not to be construed as an order of preference:

- 1. Eaton Corporation
- 2. Schneider – Square D.
- 3. Siemens Power

SWITCHBOARD ALTERNATE DESIGN: In lieu of a U.L. 1588 drawout type switchgear, provide a UL 891 switchboard cabinet consisting of draw out molded case circuit breakers (UL 489) with a 4000A amp copper buss equipped with a copper neutral and ground bar. This unit will require a whole building shut down to maintain any breaker. The switchboard shall be equipped with a digital metering system for owner use. The digital meter shall be gateway equipped (BACnet, MODbus) to interface with the building management system. Draw-out technology branches will be used in the switchgear to allow electric service to remain active to any areas and equipment while selected feeders or loads are serviced. Phase loss (single phasing) protection will be provided. Draw-out breakers will be LSIG type. The alternate switchboard construction shall be U.L. 891, 3 cycle.

The switchgear will be manufactured by one of the following. The order of listing is not to be construed as an order of preference:

- 4. Eaton Corporation
- 5. Schneider – Square D.
- 6. Siemens Power

The facility electrical system will be required to have performed a complete overcurrent systems coordination study. The study shall investigate fault current availability at distribution nodes, time and current coordination of overcurrent protective systems, and arc-flash analysis at panelboards and major pieces of equipment. The study shall be performed on SKM, ETAP, or equal software and the final report sealed by a professional engineer with current licensure in the State of North Carolina.

METERING

The electrical distribution main switchgear shall be provided with electronic, digital demand metering at each switchgear branch feeder breaker. Each breaker shall be equipped with a communications gateway matching the Division 23 Building Management System (BMS). The metering of branch breakers shall be totaled by the BMS for three (3) load classes:

- Building-wide lighting loads
- Building-wide HVAC/mechanical loads
- Building-wide plug and equipment loads

PARKING LEVELS ELECTRICAL DISTRIBUTION

Secondary feeders, consisting of 480V, 3-phase, 4-wire, single-conductor THHN/THWN or XHHW copper cabling, shall be installed to a dedicated 600A panel dedicated for garage equipment and accessories. Lighting will be LED, ceiling hung, garage type fixtures.

All conduit within the Parking Deck shall be rigid galvanized steel. All devices including outlets, lights,

and fire alarm devices shall be suitable for wet conditions for unconditioned, exterior exposure.

Car Chargers will be provided by the contractor in the Parking Deck. The basis of design will be Level II commercial grade charges by “Charge Point”. At a minimum, the units will be 40A (32A FLA), 208V, 1ϕ units and supplied with a telecommunications option. A 480:208/120V dry-type transformer and dedicated panelboard will be provided to circuit and power the car chargers.

SURGE PROTECTION AND POWER QUALITY

A surge protective device (SPD) equipped with Metal Oxide Varistors (MOVs) rated for 250,000 amps per mode will be installed at the building and parking deck services to mitigate voltage transients caused by power system disturbances and lightning. In addition, panel level surge protection will be installed in panelboards on any electrical circuit crossing (including HVAC) the building perimeter, the incoming telephone and CATV circuitry, elevator panels and on the fire alarm power supply. In addition, all lighting panels will be provided with surge protection.

PRELIMINARY ELECTRICAL LOAD COMPUTATION

The load computation for this facility is preliminary and will be adjusted in Design Development and throughout the Construction Document phase. The computation will be revised at each phase to include all adjustments, equipment selections, etc. which are still to be determined. Parking deck loads based on lighting, convenience power, and one (1) 25HP elevator, and eight (8) 40A, Level II electric vehicle chargers.

Load Description	Connected KVA	Demand Factor	KVA Demand
Convenience Receptacles: 1va / ft2 x 125,000 ft2	125	1st 10KVA @ 100%, remainder 50%	68
Lighting – Interior: 2va / ft2 x 125,000 ft2	250	100%	250
Lighting – Exterior: Estimate 4kva	10	100%	10
Heating 6va / ft2 x 125,000 ft2 (Not Concurrent, Use Cooling)	NA	NA	NA
Cooling: 9va / ft2 x 125,000 ft2	1125	100%	1125
Plumbing and HVAC Motors, average 10 motors at 15 HP	175	100%	175
Elevators: 4 Motors @ 30 HP each, 460V 3Ø	160	100%	160
Specialized Equipment: 1.5 / ft2 x 125,000 ft2	188	60%	113
Water Heating: (Electric) 70KVA (Miscellaneous Local)	70	100%	070
IT Rack Equipment: Estimate 5 closets @ 12kva each,	60	100%	60
Ventilation Fans: Estimate 10 @ 5 HP each	63	100%	63
Fire Suppression, Heat Tape, Fire Alarm, Dampers, etc.	50	100%	50
Office equipment and support (Copiers, printers, A/V etc.)	150	60%	90
Parking Deck Lighting, Power, and Car Chargers	300	100%	300
SUBTOTAL LOAD:	2726kVA		2534 KVA

(Estimate largest load = 100HP motor)
 Sub-total Load: 2534 kVA
 25% largest load 50 kVA
 25% Spare Capacity 634 kVA

Total Load: **3218 kVA**
 3218 kVA / 480V x .001 x 1.73 = 3871 amperes
 3871 Amperes > 3,000 Ampere service
 3871 Amperes < 4000 Ampere service ok
Use one (1) 4000 Ampere Service Switchgear.

ELECTRICAL NARRATIVE

BUILDING DISTRIBUTION AND WIRING METHODS

Distribution within the building will be 480/277 volt, 3 phase, 4 wire. Dry type transformers with copper windings rated for 150 degrees centigrade rise over ambient will be utilized to provide 120/208 V, 3 phase, 4 wire power.

Switchboard construction will be utilized for distribution bus sizes larger than 1200 amps. Panelboard main bus shall be copper, and panel circuit breakers shall be bolt-on type with ground bar and isolated ground bar as required. All panelboards, switchboards, and other electrical equipment shall have easy access and shall comply with the working clearance requirements of the NEC. All panelboards shall have exterior identification using permanently attached nameplates. All circuit breakers shall be numbered and identified on the plastic covered directory as to type device and area serviced. Circuit breaker panelboards for 120/208V shall be lockable, specification grade, with 100% size neutral buses. Without exception, all branch circuit panelboards shall be door-in-door construction. Circuit breaker positions designated as spaces shall have all necessary mounting and connecting hardware for future circuit breakers. All breakers rated 100A and larger will be specified with long time, short time delay and trip settings as well as instantaneous trip setting.

All wire and cable for feeders and branch circuiting will be copper. Stranded copper will be utilized for conductors larger than #10. Use of aluminum conductors is not allowed on this project. Conductor insulation for conductors 600 V and below is to be type THHN/THWN. Total voltage drop shall be less than 5%, with feeder voltage drop limited to 2%, and branch circuit drop limited to 3%. Ground fault circuit interrupter receptacles will be installed within six feet of sources of water, and where otherwise required by

code.

Vending areas shall be supplied with electrical outlets at 4’-0” intervals along walls against which vending machines will be located. Hallway areas will be supplied with electrical outlets at a minimum of every 50 feet. Switches and controls for lighting, essential use controls, and fire alarm pull stations as well as convenience outlets will be located at heights as required by the ADA and current building code standards. Convenience electrical outlets shall be specification grade 20 A, 125 V, NEMA 5-20R, grounding type, back and side wired. Floor outlets, where utilized shall be flush mounted and shall be equipped with plates compatible with the floor surface.

Installed conduit shall be rigid steel (RS), intermediate metal (IMC), or electrical metallic tubing (EMT) consistent with the Wake County Facilities Design and Construction “Design Guidelines and Standards” published July 31, 2017. The minimum conduit size shall be 3/4” and 1” for telecommunications inside the building and 1” minimum outside the building. Schedule 40 PVC conduit may be utilized for underground and below slab installations. All exterior circuitry shall be installed in conduit. Direct buried cabling will not be allowed. All empty conduits shall contain a minimum 200 lb. test nylon cord. Liquid-tight flex conduit shall be utilized for movable, rotating, or vibrating equipment connections. Flexible metal conduit shall be utilized for connection of light fixtures above ceiling. Light fixtures shall be served individually from ceiling structure mounted junction boxes. Use of flexible metal conduit (FMT) is limited to 72” individual runs and will be used only for lighting whips and connections to vibrating equipment. MC cable systems are not allowed on this project.

ELECTRICAL NARRATIVE

BUILDING DISTRIBUTION AND WIRING METHODS - CONTINUED

Motors shall be high efficiency, high power factor in all cases where available for a particular application. Reduced voltage starters or variable frequency drives (VFDs) will be provided for all motors that are 15 horsepower and larger. All VFDs shall be connected to the building energy management system. VFD's will not contain a bypass.

All motors controllers and VFD's will be specified with phase loss and under/over voltage protection.

Motor control centers will be designed where a sufficient number of motors in a vicinity make the use of motor control centers practical and cost efficient. Fused disconnects, where furnished local to motors, shall be furnished with current limiting fuses with "rejection" type clips where applicable. A spare fuse cabinet and a set of three (3) spare fuses of each size and type used on the project will be furnished.

STANDBY POWER GENERATOR

A standby generator and associated power distribution will be sized for both NFPA Article 700 Life Safety loads, NEC 701 legally required loads such as elevators and NEC 702 loads such as Owner discretionary equipment. The generators will be diesel fuel source. The generator set will be located outdoors and will be equipped with a weatherproof enclosure. The generator plant electrical distribution will include automatic transfer switches, and associated distribution switchboards and panelboards as required. The transfer mechanism shall be neutral switching, with accessory relays and contacts. Legally required and Optional Standby transfer switches will be specified with an adjustable, time-delayed center-off position. The optional standby switch will

contain an isolation bypass feature to allow generator power access to critical equipment during times when optional standby ATS is in maintenance.

Preliminary sizing is as follows:

Preliminary Sizing of Generator: 500KW, 480/277V, 3φ
ATS-1 NEC 700 Life Safety: 125A, 480/277V, 3φ
ATS-2 NEC 701 Legally Required: Dedicated to elevators 300A, 480/277V, 3φ
ATS-3 NEC 702 Optional Standby: 400A, 480/277V, 3φ

As a minimum, loads to be fed from emergency power include:

- NFPA-101 required emergency and exit lighting
- Building data gathering panels used for HVAC Control
- Building Management Systems
- Medical related refrigerators and freezers
- Pharmaceutical dispensaries and storage rooms
- IT network switches and PBX
- Parking Deck emergency lighting
- Elevator Sump Pumps (If required)
- IT network switches and PBX
- Elevators (on generator, one elevator will be allowed to operate at a time.)

Generator will be manufactured by one of the following. The order of listing is not to be construed as an order of preference:

1. Caterpillar
2. Kohler
3. Cummings

UNINTERRUPTIBLE POWER SOURCE (UPS)

A double conversion, 20 minute (min) UPS system will be provided. The UPS primary sizing and characteristics are as follows:

- 100 KW/KVA (unitary power factor)
- 480V, 3φ Delta in – 480/277V, 3φ wye out

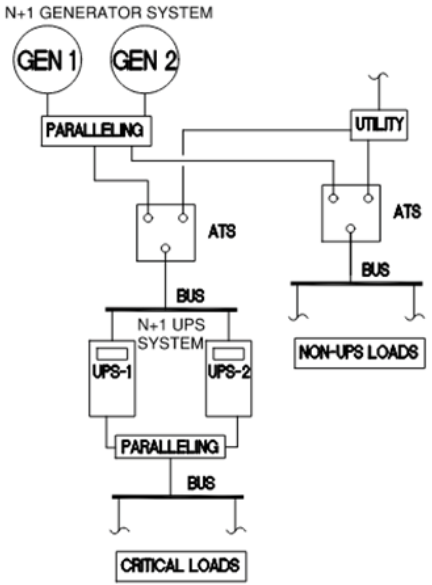
UNINTERRUPTIBLE POWER SOURCE (UPS) - CONTINUED

- Integral internal bypass
- Separate full wrap-around by-pass
- Lithium batteries to eliminate dedicated exhaust and make-up air system
- Alber or equal battery monitoring system of battery performance and temperature
- Manufacturer remote monitor to monitoring site within building as directed by the Owner
- Communications gateway for BMS and offsite monitoring

Projected loads on system may include but are not limited to: all IT systems, building management system (BMS), electronic or processor loads associated with Owner selected medical equipment.

N+1 OWNER CRITICAL POWER LOADS

The generator and UPS loads are given based on an estimate only. Owner will review and establish final design parameters for final equipment to be on the generator and/or UPS plants. Additionally, the generator and/or UPS plants may be divided into a paralleled, N+1 configuration. A typical example of N+1 may be as follows:



N + 1 GENERAL SCHEMATIC

FIRE ALARM

An addressable fire alarm system will be installed with adequate points to serve the facility. The building fire alarm system shall be as approved by the local fire marshal. Fire alarm devices will be connected to electrically supervised circuits and will include:

- audible/visual devices
- manual pull stations
- photoelectric smoke detectors
- remote monitoring capability
- rate-of-rise (heat) detectors
- magnetic door-hold open devices
- fire protection flow, tamper, pressure switch, and PIV connections.
- remote annunciator panel at building entry
- internal printer
-

The fire alarm control panel in both the building and parking deck shall be constructed featuring field replaceable, modular electronics for both maintenance and upgrades. The system shall also be field expandable utilizing manufacturer's modular components connecting to the main

ELECTRICAL NARRATIVE

FIRE ALARM - CONTINUED

control electronics. The basis of design system shall Siemens Fire Alarm, DESIGO Modular System.

The fire alarm system shall be specified and designed to meet the requirements of NFPA 70, NFPA 72, and the North Carolina State Fire Prevention Code. The Parking Deck will be provided with a separate FA system consisting of pull-stations and speaker-strobe notification appliances. All devices within the Parking Deck shall be provided as “weather-proof”. The FACP in the Parking Deck shall be provided with a communication link into the building to allow remote monitoring status of the deck building.

The elevator fire and smoke detection system shall be connected to the building fire alarm system and will meet approval by the NC DOL, the State Elevator Inspector guidelines.

Emergency Responder and 800MgHz Antenna: The design will include a performance specification for an Emergency Responder Radio system. The performance will embrace all amplifiers, the distributed antenna system (DAS), cables, UPS support, along w/ DAS position and performance calculations. Additionally, the specification will include an 800MgHz building antenna system that will be required to be designed in accordance with TIA-222(revG) standards.

Fire Alarm Audible Type: The facility will be provided with a horn-strobe fire alarm system. The system will be complete with speaker-strobe devices ceiling mounted and spaced to meet audible sound pressure (db) requirements.

ALTERNATE: The FA system will be upgraded to a voice-messaging type and combined with a Mass

Notification paging and alert system throughout the building. The system will be designed and specified to comply with NFPA 72, Chapter 24 governing Emergency Communications Systems (ECS).

Where matching basis of design system, equal performing systems manufactured by the following shall be acceptable:

- 1. Siemens Fire Alarm (Provided by factory vendor only)
- 2. Edwards EST
- 3. Gamewell-FCI by Honeywell

INTERIOR AND EXTERIOR LIGHTING

To assist overall energy efficiency and quality of lighting, 100% Light Emitting Diode (LED) lighting fixtures will be utilized within the facility. Lowering watts per foot for lighting and consequently lowering watts per foot for mechanical will greatly assist in both lowering energy consumption costs and facilities maintenance costs. The overall lighting strategy will be designed and selected to meet the intent of the Wake County published “Energy Design and Management Guideline”, 2018 ed.

Lighting will be powered with 277 volt circuitry. The use of occupancy sensors shall be investigated and shall be used to meet or exceed the North Carolina Energy Code. All LED lamps will be 4000K color temperature.

All lighting fixtures will be light emitting diode (LED) and manufactured in compliance w/ IES LM-79 and LM-80 standards.

Lighting in operatories and work areas will be designed for 50 foot candles average maintained illuminance. Office areas will be designed for 40 fc. Lobbies, waiting, egress, and utility areas, lighting foot-candle levels will be consistent with Illuminating Engineering Society of North America

INTERIOR AND EXTERIOR LIGHTING - CONTINUED

(IESNA) (IES Handbook) recommendations.

Lighting shall be adequate to encourage cleanliness. Average lighting levels shall conform to the latest energy conservation standards. Lighting shall use overhead troffers with energy efficient type optics. Pendant direct/indirect may be used in open areas. Custodial closets shall be provided with adequate lighting levels and a minimum of three duplex electrical outlets in each closet.

Interior lighting control shall be by master, electronically controlled relays. The relay panels shall be manufactured for interface w/ the Building Automation System (BAS) to allow “sweeping” the interior lighting for on/off operation. Relay panels outside of electric closets shall be recessed type housings. The control panels shall be manufactured with modular control cards and electronic assemblies that are quickly interchangeable and replaced without requirement of removal of any other component.

Emergency illumination will be provided at all exits, and in all stairways, hallways, mechanical rooms, elevators, along all paths of egress and in areas deemed necessary for security purposes. Egress lighting for life safety purposes will be powered from the standby generator. Exit signs will be contemporary style LED type fixtures with clear, edge-lit face and will be powered from the standby generator and central battery inverter.

Outdoor security lighting and parking lot lighting shall be included in the building design as required. Exterior lighting shall be LED using Architectural pole mounted parking fixtures. Exterior walkway and security lighting shall be provided and controlled by both a 7-day electronic time clock and a photoelectric switch. LED flood lighting will be used along the front façade of the facility. Exterior lighting control will be by an electronically controlled contactor with

control interface by the Building Automation System (BAS). Exterior emergency lighting will be controlled by photo-cells set for dusk to dawn operation.

PARKING LEVEL LIGHTING

Lighting will be powered with 277 volt circuitry. All fixtures will be garage type, LED area lighting fixtures. Lighting foot candle levels will be consistent with Illuminating Engineering Society of North America (IESNA) recommendations. Lighting levels will be increased at entrances and increased at special areas designated for judges’ parking/ LED fixtures will be specified at 4000K

GROUNDING AND BONDING

Grounding will be installed in accordance with requirements of the National Electrical Code (NEC), Article 250, and in accordance with EIA/TIA standards for telecommunications grounding. The grounding system will consist of a neutral/ground bond at the switchgear connected to a ground ring, building steel, and the building main water pipe. Additional grounding will be installed to provide an equipotential ground system at the facility. That is, all components to be grounded will be connected to the site grounding system and will therefore be at the same potential (earth ground). The ground resistance shall not exceed 10 ohms measured at any test well or service located on the grounding system using the three-point test method. A written record of the test results shall be required as part of the project completion documentation.

The building grounding system will consist of a buried ground ring encircling the building connected to ¾” X 10’ driven UL listed ground rods spaced at not more than 60’ intervals. All ground connections shall be exothermic welds. Exothermic welds shall be coated to protect against corrosion where direct buried. The buried ground ring will be connected to the switchgear service neutral.

ELECTRICAL NARRATIVE

GROUNDING AND BONDING - CONTINUED

The neutral will be bonded to the switchgear ground bar. Test wells will be included to provide a means for periodic ground resistance testing. This system provides a lower impedance ground path and enhances the quality of power at the facility by mitigating surges and transients induced on the system.

Ground rings similar to the one described in the previous paragraph will also be installed around the generator and outside transformer. In addition, all metal piping entering the building will be grounded and bonded.

Telecommunications system grounding will consist of a bare copper ground conductor connecting bare copper ground bars in each of the telecommunications rooms which will be tied to the service ground at the main telecommunications room.

Bare copper conductors, connected to the building service ground, will be installed exposed along the perimeter of any rooms designated for hazardous chemical storage.

The secondary of dry type transformers will be grounded to establish a separately derived system in accordance with the National Electrical Code.

LIGHTNING PROTECTION

Lightning protection, including air terminals and down conductors will be installed at the facility. The lightning protection system attracts lightning so that direct strikes can be channeled directly to earth grounding system minimizing the magnitude of transient voltages on the building electrical and internal grounding system. The lightning protection

system will be connected to the building ground ring.

Installation shall be made under the direct supervision of a Certified Master Installer, whose certification has been granted by the Lightning Protection Institute. Except for cable fasteners, all components of the lightning protection system shall be listed and labeled by Underwriters Laboratories, Inc. (UL). The installed system shall be required to be provided by the installing contractor as a U.L Master Labeled System.

TELECOMMUNICATIONS SITE

Connection to the Existing Campus County Building

The new project Main Telecom Room shall be connected to the existing site county building with two (2) – 4” conduits. Each conduit will be provided with three – 1.25” rigid innerducts to allow six physical pathways for future connections.

Connection for Private Service Providers

The new project Main Telecom Room shall be connected to the project property line at two locations to support redundant data services. Each duct bank will contain two (2) – 4” conduits. Each conduit will be provided with three – 1.25” rigid innerducts to allow six physical pathways for present and future connections. Exact stub-out locations will be coordinated with data and TX signal service providers. Pathways will remain empty to allow system demarcation in the Main Telecom Room.

TELECOMMUNICATIONS ROOMS

The interior telecommunication system shall consist of the furnishing, installation, and connection of a building-wide voice, data, and TV distribution system. The distribution system shall consist of horizontal cabling, backbone cabling, and associated connecting hardware to transport voice, data, and TV signals

TELECOMMUNICATIONS ROOMS - CONTINUED

throughout the new complex. The building shall be provided with a building Main Telecom Room (MTR) and outside agency service provider demarcation room that shall serve as the main distribution points for all telephone, data, and TV cabling throughout the new complex. The MTR space and outside agency demarcation room will house most of the “head-end” or source equipment. From this equipment, information will be injected into the information distribution system. The Main Telecom Room will be located on the building’s lower level and will contain Wake County network equipment. The service provider demarcation room shall also be located on the lower level and contain voice, data, and TV service provider equipment. Telecom rooms shall be located on each floor.

The design of the building’s data network will be based on a hierarchical star network with fiber backbone being one level of the hierarchy (Main Telecom Room (MTR) to Telecom Room (TR) and Category 6 distribution cabling (Telecom Room to field outlet) being the second level of the hierarchy. Each communication outlet shall have a “point-to-point” connection to a MTR or TR. The design of the voice infrastructure system will also be based on a hierarchical star network with UTP Category 3 copper cabling being one level of the hierarchy (MTR to TR) and Category 6 distribution cabling (TR to field outlet) being the second level of the hierarchy. Each voice outlet shall have a “point-to-point” connection to the Main Telecom Room or Telecom Room.

TELECOMMUNICATIONS RACEWAYS AND SYSTEMS

The new Public Health Building cabling infrastructure shall be standardized to Wake County published Division 27 standards. All project requirements shall be completed by Manufacturer Certified Vendors. By working only with certified vendors, the project will

qualify for a twenty-five year extended warranty that is offered and maintained by the manufacturers. If any components fail due to manufacturer related issues or installation practices, the manufacturer will correct the issue at their cost. To obtain this warranty, the designers must require that the project be registered with the select manufacturer and that the contractor provide the manufacturer warranty certificate as part of their close-out documentation. The expectation is that the between three to five manufacturers will be pre-approved for both the copper distribution system and the fiber distribution system.

The telecommunications system is to provide the cabling and raceway infrastructure to support the various electronic communications system to be ultimately installed in the new construction space. To develop a schematic design, several assumptions have been made that will have to be finalized as the project proceeds through Design Development and the Construction Documents Phase. These assumptions are as follows: Data, Voice, and TV Service Providers (SP) will provide trunk lines to the main telephone room on the lower level of the Courthouse and Administration Building. The project telecommunication requirements shall include a low voltage system duct bank that will be extended to the project property line and coordinated with the service providers. (See Outside Plant Duct Bank section above.)

The following list identifies systems that may require support by the telecommunications system and whose needs will have to be further defined:

- 1. Security System.
- 2. HVAC Control/Energy Management System.
- 3. Operations/Maintenance.
- 4. Audio/Visual Systems.
- 5. Fire Alarm (monitor only).
- 6. Other systems yet to be identified.

ELECTRICAL NARRATIVE

SECURITY INFRASTRUCTURE BY DIVISION 26

The Division 26 contractor shall install all conduits and pull-lines associated with the security infrastructure. Conduits will be provided for the following elements of the security system.

1. Card readers for each entry door and internal department, suite doors.
2. Exterior site conduit network for exterior cameras
3. Conduit associated with parking deck entry/exit gate card readers
4. Security conduits and sleeves between MDF and each IDF closet
5. Security conduits between MDF room main security equipment and Fire Alarm Control Panel.
6. Conduits interconnecting Parking Deck telecommunications/security room and building main security processor in MDF.
7. Conduits from each medical suite back to security processor monitoring equipment for connection of manual alarm activation equipment.
8. Building conduits necessary to route security conductors over ceilings with gypsum board or other non-accessible finish material.
9. Conduits will be provided where required by the security system designer between elevator controllers and the main security processor.

In addition, the contractor will provide 120V primary circuits where necessary for connection to appropriate security equipment and accessories. Generally, these will be 120V to low voltage power pack supplies located in the MDF and IDF closets. Additional 120V power may be provided to 120V handicap door operators throughout the building.

INTERIOR FINISH NARRATIVE

ENTRANCE AND LOBBY

Vestibule	
Floors:	terrazzo
Walls:	aluminum storefront with glass
Ceiling:	acoustic ceiling tile
Casework:	n/a
Doors:	aluminum storefront with glass
Lites:	fully tempered glass
FFE:	n/a
Lobby	
Floors:	terrazzo
Walls:	gypsum board (paint)/aluminum storefront with glass
Ceiling:	gypsum board soffit (paint)/acoustic ceiling tile
Casework:	n/a
Doors:	aluminum storefront with glass
Lites:	fully tempered glass
FFE:	n/a
Waiting	
Floors:	terrazzo
Walls:	gypsum board (paint)
Ceiling:	gypsum board soffit (paint)/acoustic ceiling tile
Casework:	n/a
Doors:	per plan
Lites:	fully tempered glass
FFE:	n/a

Central Registration	
Floors:	terrazzo
Walls:	gypsum board (paint)
Ceiling:	gypsum board soffit/acoustic ceiling tile
Casework:	per plan <ul style="list-style-type: none">Solid surface counters with feature-design custom caseworkPlastic laminate surface counters at staff work areas with standard custom casework
Doors:	per plan
Lites:	fully tempered glass
FFE:	n/a
Corridors	
Floors:	terrazzo
Walls:	gypsum board (paint)
Ceiling:	acoustic ceiling tile
Casework:	per plan
Doors:	per plan
Lites:	n/a
FFE:	n/a
Toilet Rooms	
Floors:	terrazzo
Walls:	gypsum board (epoxy paint)
Ceiling:	acoustic ceiling tile
Casework:	n/a
Doors:	per plan
Lites:	n/a
FFE:	n/a

CLINICAL/NON-CLINICAL SERVICES

Exam Rooms/Consultations Rooms		Staff Work Areas/Break Room/Conference	
Floors:	resilient tile	Floors:	resilient tile
Walls:	gypsum board (paint)	Walls:	gypsum board (paint)
Ceiling:	acoustic ceiling tile	Ceiling:	acoustic ceiling tile
Casework:	per plan, plastic laminate	Casework:	per plan, plastic laminate
Doors:	per plan	Doors:	per plan
Lites:	n/a	Lites:	n/a
FFE:	n/a	FFE:	staff lockers in break rooms
Procedure Rooms		Corridors	
Floors:	resilient tile	Floors:	resilient tile
Walls:	gypsum board (paint)	Walls:	gypsum board (paint)
Ceiling:	acoustic ceiling tile	Ceiling:	acoustic ceiling tile
Casework:	per plan, plastic laminate	Casework:	n/a
Doors:	per plan	Doors:	per plan
Lites:	Procedure light	Lites:	n/a
FFE:	n/a	FFE:	n/a
Care Team Area		Clean/Soiled/Storage	
Floors:	carpet	Floors:	resilient tile
Walls:	gypsum board (paint)	Walls:	gypsum board (epoxy paint)
Ceiling:	acoustic ceiling tile	Ceiling:	acoustic ceiling tile
Casework:	per plan, plastic laminate	Casework:	n/a
Doors:	per plan	Doors:	per plan
Lites:	n/a	Lites:	n/a
FFE:	staff lockers, workstations	FFE:	n/a
Office			
Floors:	carpet tile		
Walls:	gypsum board (paint)		
Ceiling:	acoustic ceiling tile		
Casework:	per plan, plastic laminate		
Doors:	per plan		
Lites:	n/a		
FFE:	workstations		

OTHER

Storage/Janitor/Soiled Holding/Clean Utility

- Floors: resilient tile
- Walls: gypsum board (paint)
- Ceiling: acoustic ceiling tile
- Casework: n/a
- Doors: per plan
- Lites: n/a
- FFE: n/a

Pharmacy/Labs

- Floors: resilient tile
- Walls: gypsum board (paint)
- Ceiling: acoustic ceiling tile
- Casework: Laminate, Epoxy Resin Top
- Doors: per plan
- Lites: n/a
- FFE: n/a

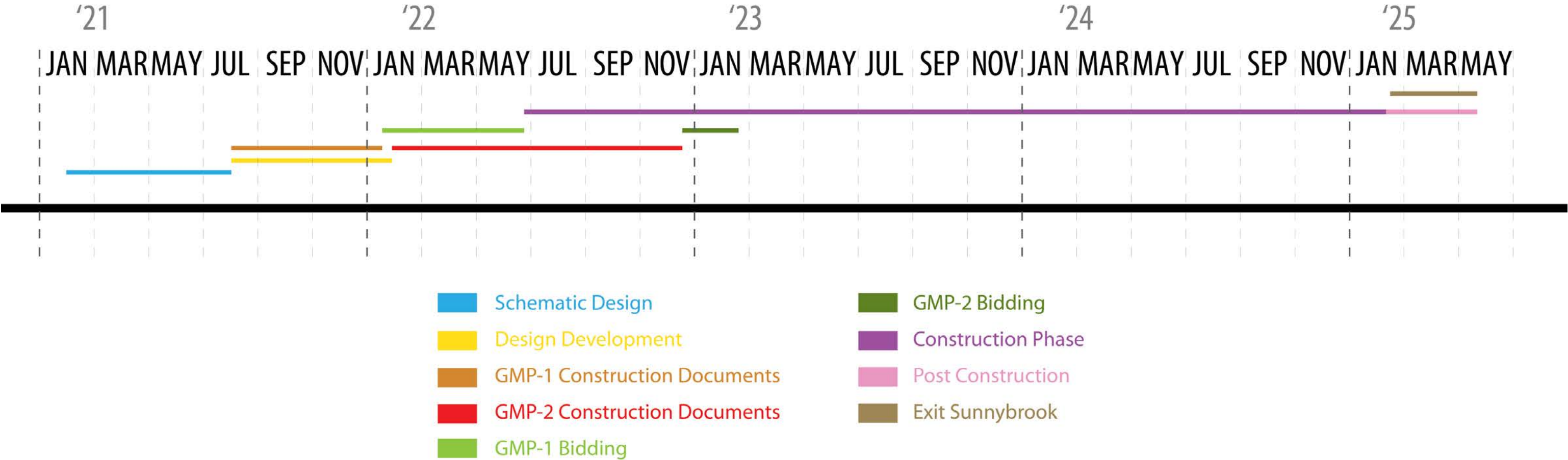
Mech/Elec/Data

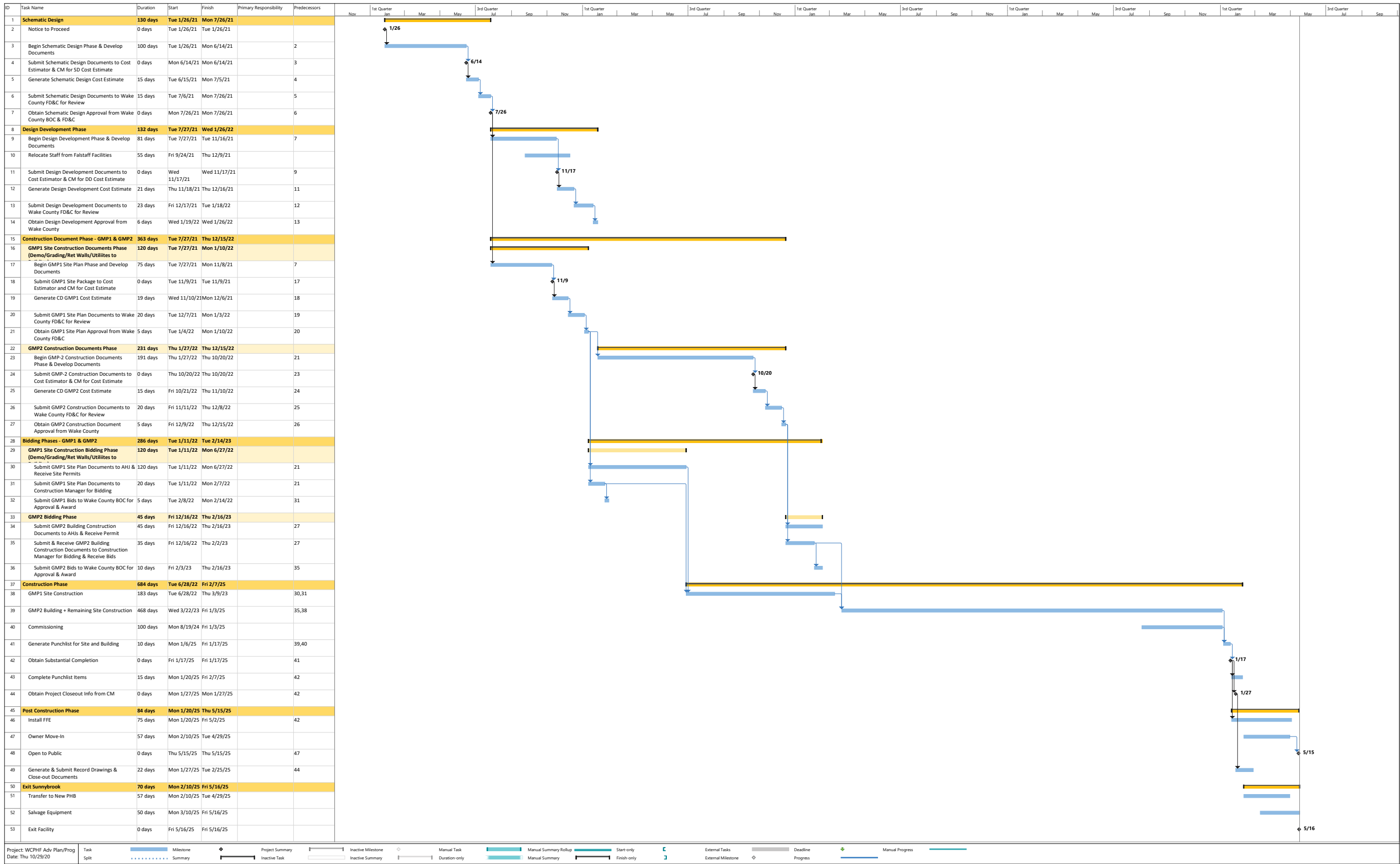
- Floors: epoxy resin
- Walls: gypsum board (paint)
- Ceiling: acoustic ceiling tile
- Casework: n/a
- Doors: per plan
- Lites: n/a
- FFE: n/a

X-ray

- Floors: resilient tile
- Walls: gypsum board (paint)
- Ceiling: acoustic ceiling tile
- Casework: open work counters/plastic laminate
- Doors: per plan
- Lites: n/a
- FFE: n/a

7 PROJECT SCHEDULE





8 PROJECT BUDGET

PROJECT BUDGET

The following is the Construction Cost Summary by Space Program Type. For further information about the Project Budget, please refer to Volume 2 Appendix.

Construction Cost Summary (By Space Program Type)				
Ref	Description	SF-age	\$ / SF	TOTAL
A. Building Costs				
A1.	Core & Shell	106,817 SF	\$263.97	\$28,196,000
A2.	<u>Interior Fit Out</u>			
	Clinical	59,048 SF	\$152.61	\$9,011,600
	Common and Service	22,129 SF	\$100.00	\$2,213,000
	Non-clinical	15,640 SF	\$118.15	\$1,847,800
A3.	<u>Other Costs</u>			
	Public Art			\$200,000
	Generator; allowance			\$100,000
Total Construction Cost (Building)		106,817 SF	\$389.16	\$41,568,400
B. Site Costs				
B1.	Sitework	182,776 SF	\$53.81	\$9,834,500
B2.	Parking Structure (incl. stairs, elevators, ramps, sprinkler, etc). Precast	300 Space	\$21,000.00	\$6,300,000
B3.	Demolish existing buildings	52,218 SF	\$15.00	\$783,270
Total Construction Cost (Building + Sitework)				\$58,486,170
C. Project Soft Costs				
C1.	Permits, Fees, Plan Check, Survey, etc	0.3%		\$175,459
C2.	A/E Fees; allow 10% of construction costs; incl. CMT	10%		\$5,848,617
C3.	Furniture, AV / IT / LV Cabling and Equipment	96,817 SF	\$35.00	\$3,388,595
C4.	CM@R Pre-con Fee	0.3%		\$175,459
C6.	Commissioning	0.16%		\$92,993
C7.	Traffic Study (Does not include recommended TIA Improvements).	0.1%		\$58,486
C8.	Preliminary Studies	1 LS	\$484,885.00	\$484,885
C9.	Owner Contingency; on building cost (5%)	5%		\$3,435,533
Total Project Cost (Building + Sitework + Soft Cost)				\$72,146,196
D. Additional Costs				
D1.	Phasing / Sequencing - none assumed		0.00%	\$0
D2.	Escalation (2 years) per schedule by Wake County, on construction cost	-	10.00%	\$5,848,600
Total Project Cost (Escalated)				\$77,994,796