2020 Project Delivery Course

Are You Ready to Design & Build a Field Hospital in 10 Days?

The American Institute of Architects

Project Delivery

an AIA Knowledge Community

November 10, 2020

Moderators

GRACE C. LIN, AIA, CSI-CDT

CBRE | Healthcare

2019-2020 Chair

Project Delivery Knowledge Community Advisory Group

ARLEN SOLOCHEK, FAIA

AIA Documents Committee

Member

Project Delivery Knowledge Community Advisory Group

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Project Delivery Case Study Series

Live Course - Are You Ready to Design & Build a Field Hospital in 10 Days?
When: Nov 10, 2020 from 2:00 PM to 3:30 PM (ET)
Community: Project Delivery

Course 1 = 1.5 LU/HSW

Live Course - Project Delivery in a Global Pandemic
When: Nov 12, 2020 from 4:00 PM to 5:30 PM (ET)
Community: Project Delivery

Course 2 = 1.5 LU/HSW

Live Course - COVID-19 Rapid Response Project Delivery
When: Nov 17, 2020 from 4:00 PM to 5:30 PM (ET)
Community: Project Delivery

Course 3 = 1.5 LU/HSW

AIA/CES Reporting Details

Your CES credits will be automatically reported given your engaged attendance during the entire event today.

If you are watching in a group setting and have multiple people in the room, please make sure the person who registered for the course, includes your name and AIA member number in their post webinar survey.

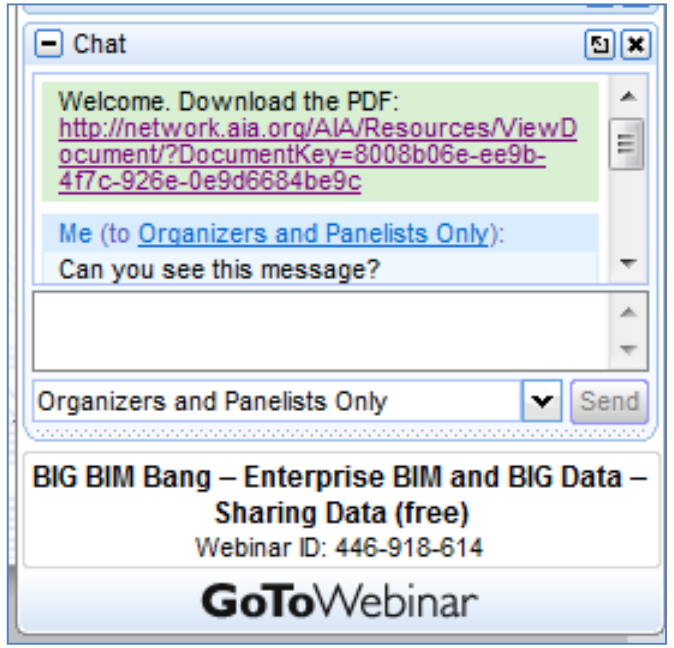
We encourage all registrants to fill out the post course survey. Your feedback is important and informs us of future course topics to better meet listener needs.

Questions?

Submit a question to the moderator via the chat box.

Content-related questions will be answered during the Q&A portion, at the end of the presentation, as time allows. Any questions not answered during Q&A, will be answered and posted online within two (2) weeks.

Tech support questions will be answered by AIA staff promptly.



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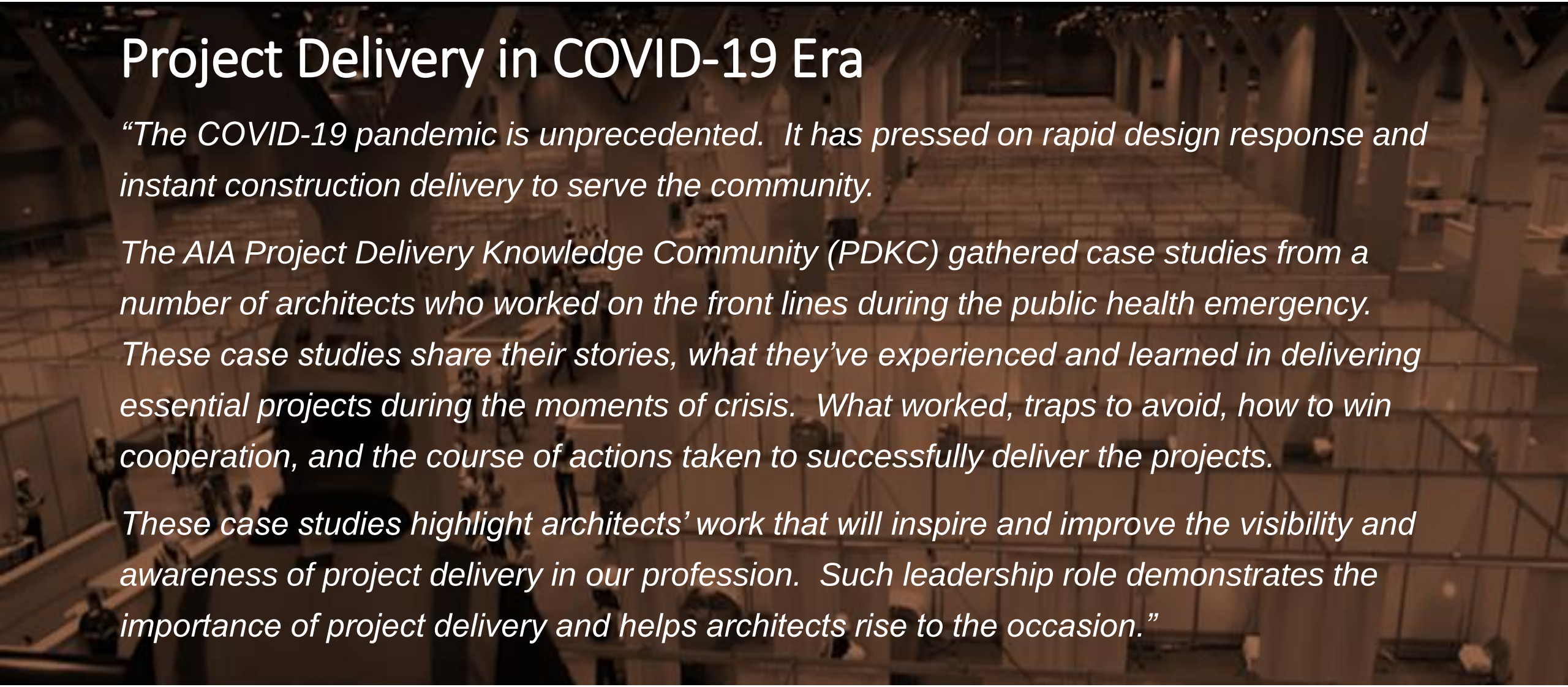

Project Delivery in COVID-19 Era

"The COVID-19 pandemic is unprecedented. It has pressed on rapid design response and instant construction delivery to serve the community.

The AIA Project Delivery Knowledge Community (PDKC) gathered case studies from a number of architects who worked on the front lines during the public health emergency. These case studies share their stories, what they've experienced and learned in delivering essential projects during the moments of crisis. What worked, traps to avoid, how to win cooperation, and the course of actions taken to successfully deliver the projects.

These case studies highlight architects' work that will inspire and improve the visibility and awareness of project delivery in our profession. Such leadership role demonstrates the importance of project delivery and helps architects rise to the occasion."

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Grace Lin, AIA
Chair of AIA PDKC

Presenters

LYNN M. EWING, PE
Contracting Officer's Representative
USACE, Chicago District

PAUL WIDLARZ, AIA
Principal
HGA

CORY POWERS
Engineering Principal
HGA

ADAM JELEN
Senior Vice President,
Midwest Division
Gilbane Building Company

Learning objectives

1. How to build a high-performing rapid response team
2. Assembling the ultimate “Big Room”
3. How to convert an expo hall into a field hospital – strategies & tactics
4. Unique considerations when designing a field hospital in a prison

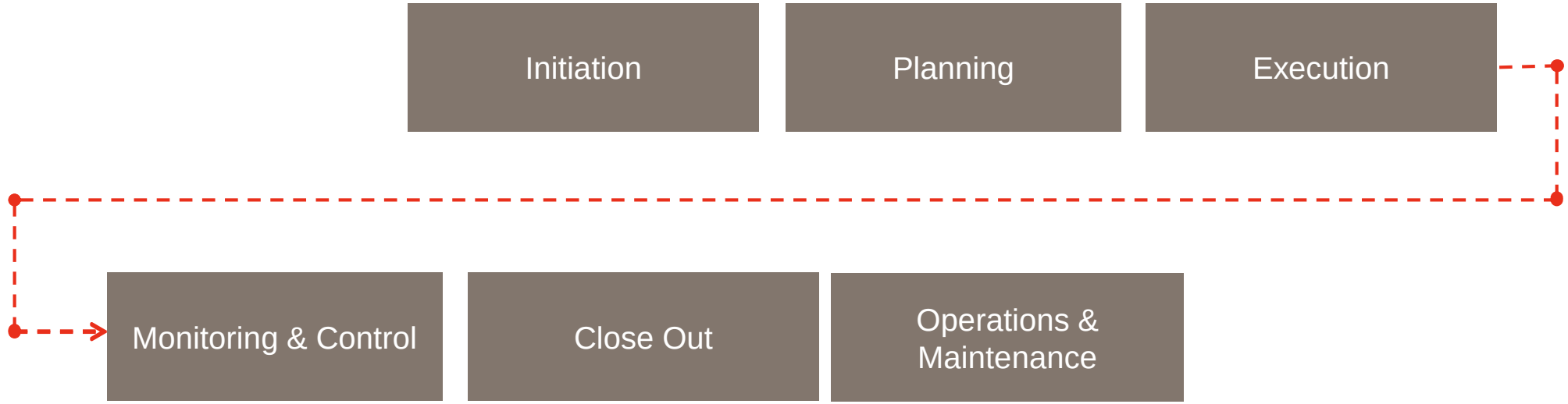
Our Mission…

- Convert an exposition hall into an Alternate Care Site (ACS)
  - 296 Beds (in-line O2), 234 beds (bottled O2), 234 future beds
  - Temporary/portable support areas (toilets/showers/hand-washing)
  - Temporary medical gas (O2) facilities
  - Infrastructure (HVAC, Electrical, IT, Fire Protection) to support
- 10 days to complete
- Ability to demobilize without a negative impact on facility

Building the Team

Operation Enduring Health – COVID-19 Response – USACE Chicago District

Summary of project life cycle



Initiation

- Market research – determine pre-selected pool of contractors
- Survey of potential sites – as requested by the state
- State development of the resource requirements submitted to FEMA
- Awarding of the MATO (mission assignment task order) from FEMA
- Development of the PWS (performance work statement)
- Issuance of solicitation and source selection board
- Right of entry from state
- Award of undefinitized design-build letter contract
  - Durations, vision of USACE, requirements
  - Flow chart

Planning & Execution

- Planning phase began upon award
- Kickoff meeting with all stakeholders, prime contractor and subcontractors
- Execution began upon award

Assembling the Design-Build Team

- Trusted and proven partners
  - Design team
  - Subcontractor (trade partners)
- Federal experience
- Local resources and knowledge (AHJ's, supply chain, workforce, etc.)
- Ability to prefabricate
- Ability to deliver senior leadership on site to boots on the ground
- Training and set expectations for the team

Team Building & Culture

- Daily presentation and collaboration
- Starting with caring moment
- Commitments and decisions
- Team building activities and appreciation

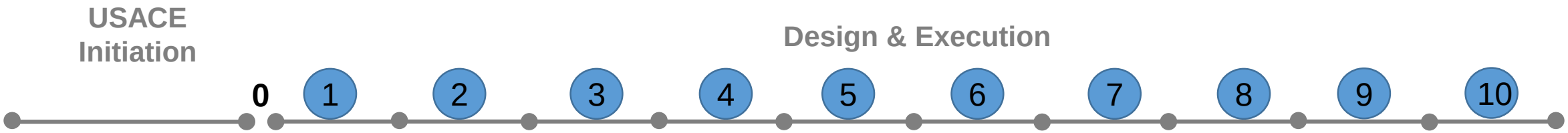
Deliver on our Mission **TOGETHER**

Building the Design Team

“We didn’t design and build this in 10 days, we designed and built this in 25 years plus 10 days…”

Converting an Expo Hall into a Field Hospital

Overall Timeline



1
Day 1 - 0800 Mobilize & Kick-Off
Day 1 - 1600 Layout Concept Defined
Day 1 - 2000 Partitions Released

2
Day 2 - For Information Set of Documents Completed
Day 2 - Critical Materials Procured
Day 2 - Construction Started

3
Day 3 – Sign-off for Information Documents
Day 3 – MEFP Rough-in and Distribution, Partitions Delivered and Install Started

4
Day 4 – Partition Installation, Wall Framing, MEFP Rough-in and Install

6
Day 6 – Major Equipment Deliveries, East Site Construction, Closeout and Transition Process Underway

7
Day 7– Major Equipment Deliveries, North and East Site construction , Closeout and Transition Process Underway

8
Day 8 – Technology Systems, Wrap-up construction, Closeout-Commissioning and Testing Process Underway

9
Day 9 – Complete Punchlist Work, Final Cleaning, AHJ Inspections, Deliver Closeout Documents

10
Day 10 – Complete Cleaning and Punchlist Items, Demobilization, Lessons Learned and Team Appreciation

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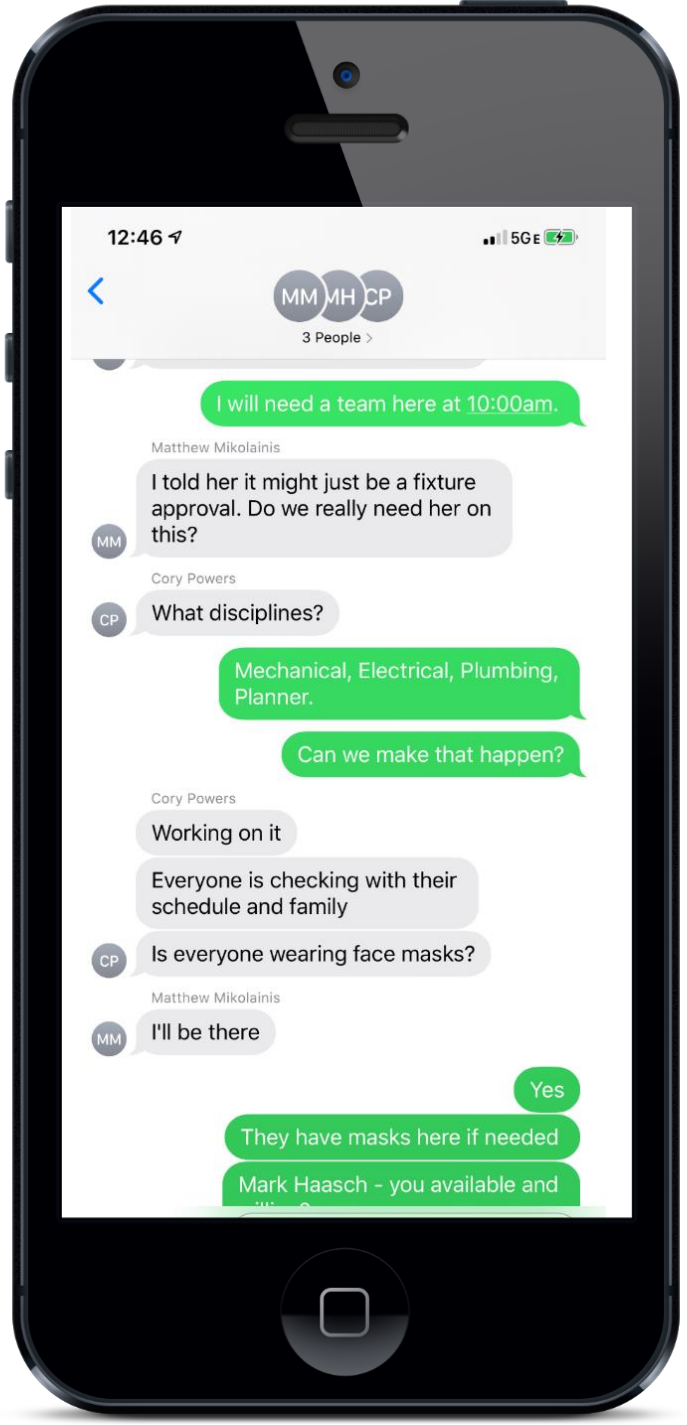
A Video Overview…

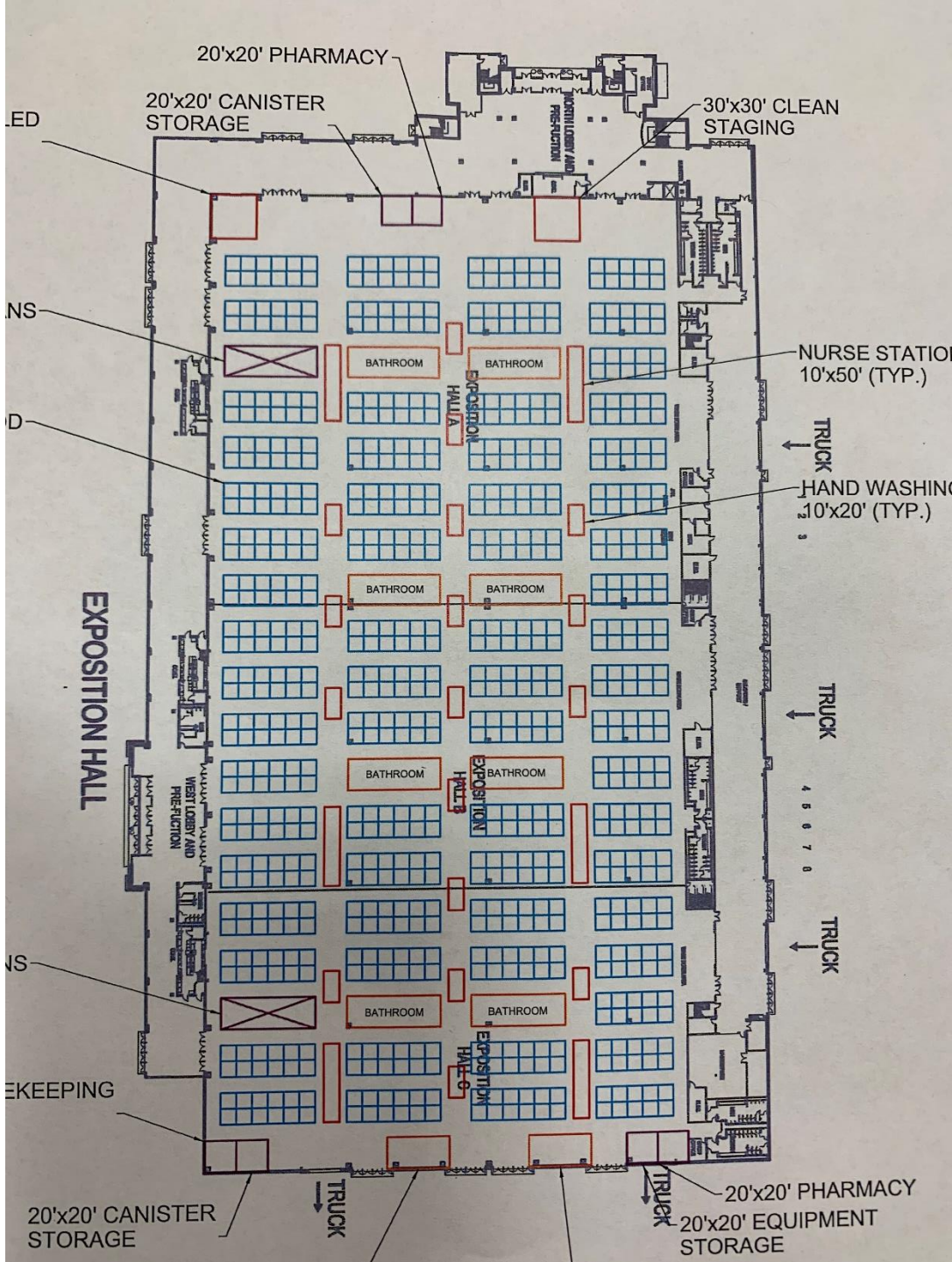
On-Boarding…

- Received meeting appointment for following morning at 0800
- Early days of the pandemic – where we were from a COVID knowledge standpoint at that time was very different from now



Kick-Off Meeting

- Work Scope (PWS)
- Preliminary floor plan
- Facility tour
- 1st deadline – final floor plan 1600 hrs



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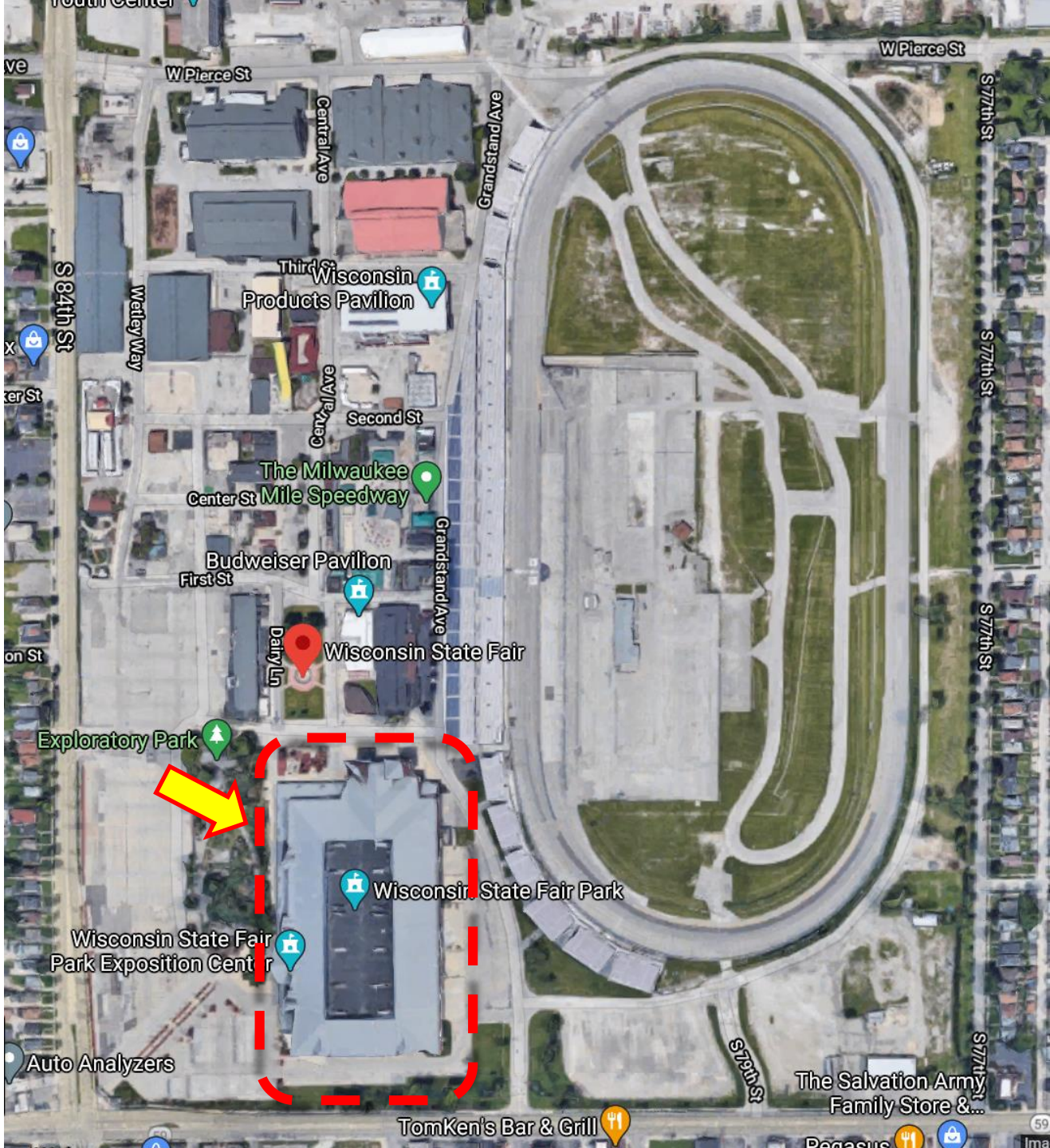
Wisconsin State Fair Grounds

West Allis, Wisconsin



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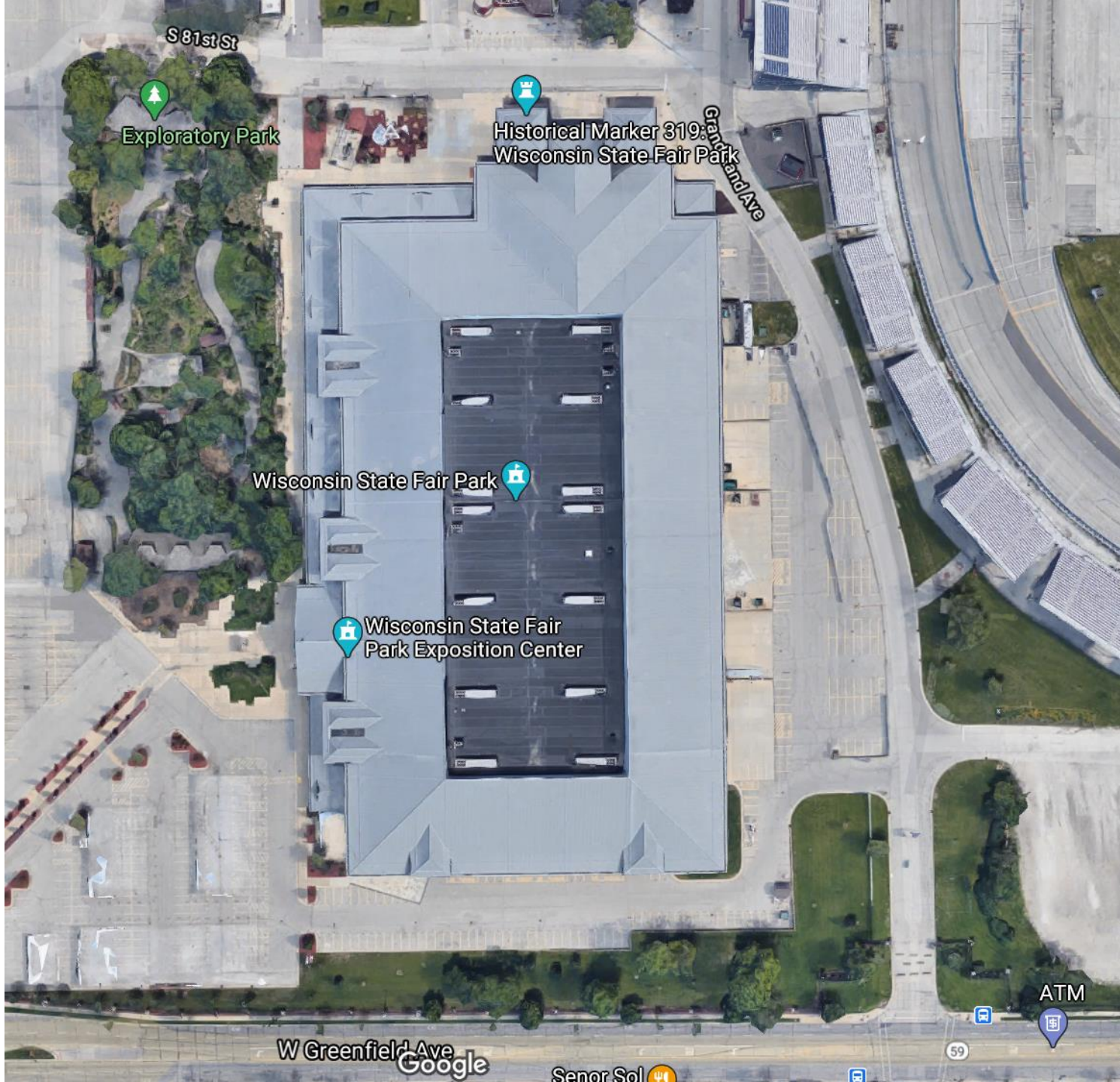
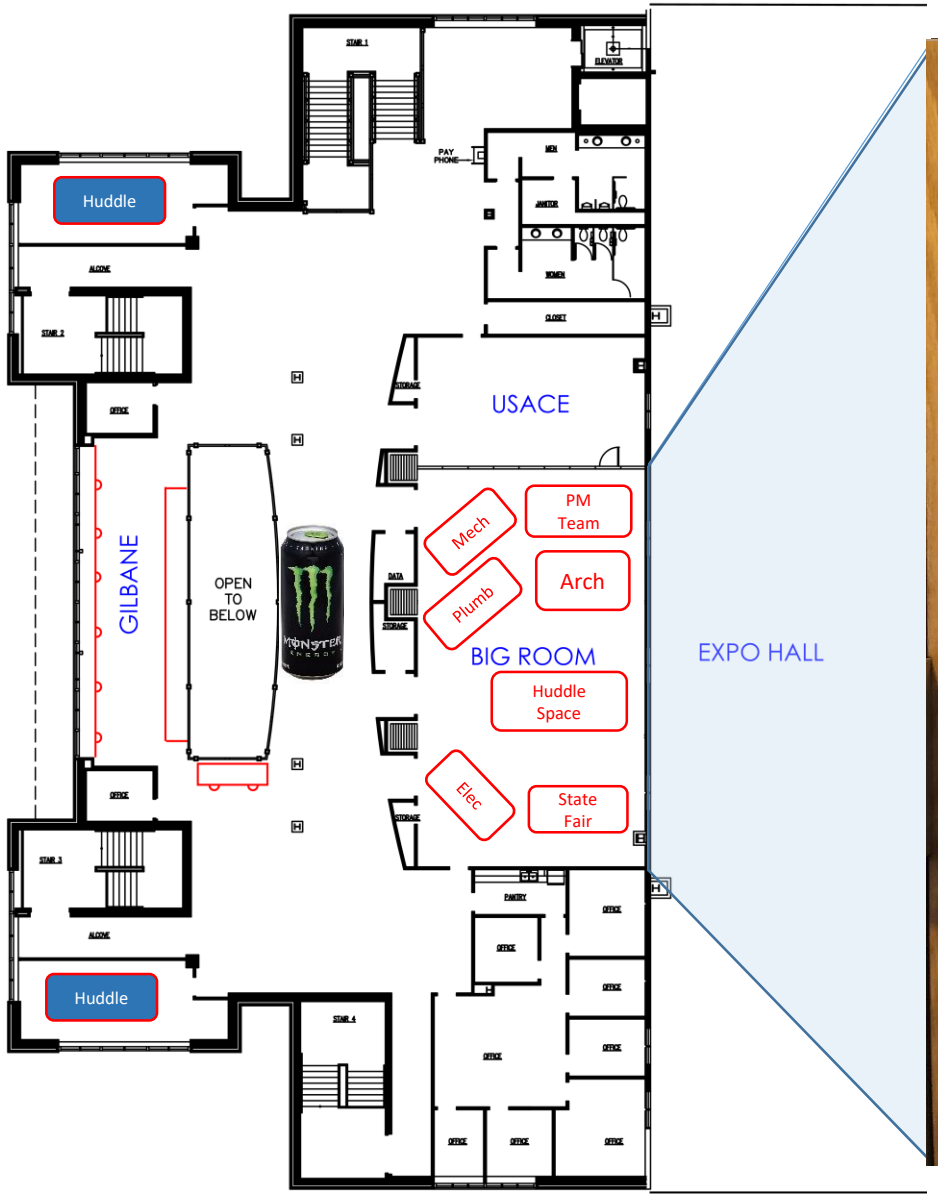
Key Stats

- Exposition Hall
- Built in 2002
- Multiple entries – all sides
- Loading dock
- Columns – 90’ on center
- Utility boxes – 30’ O.C.




A 14


State of Wisconsin
Col. Reisinger
JE Ahern
USACE Support Team
Arch & Planning Team
The Ultimate Big Room

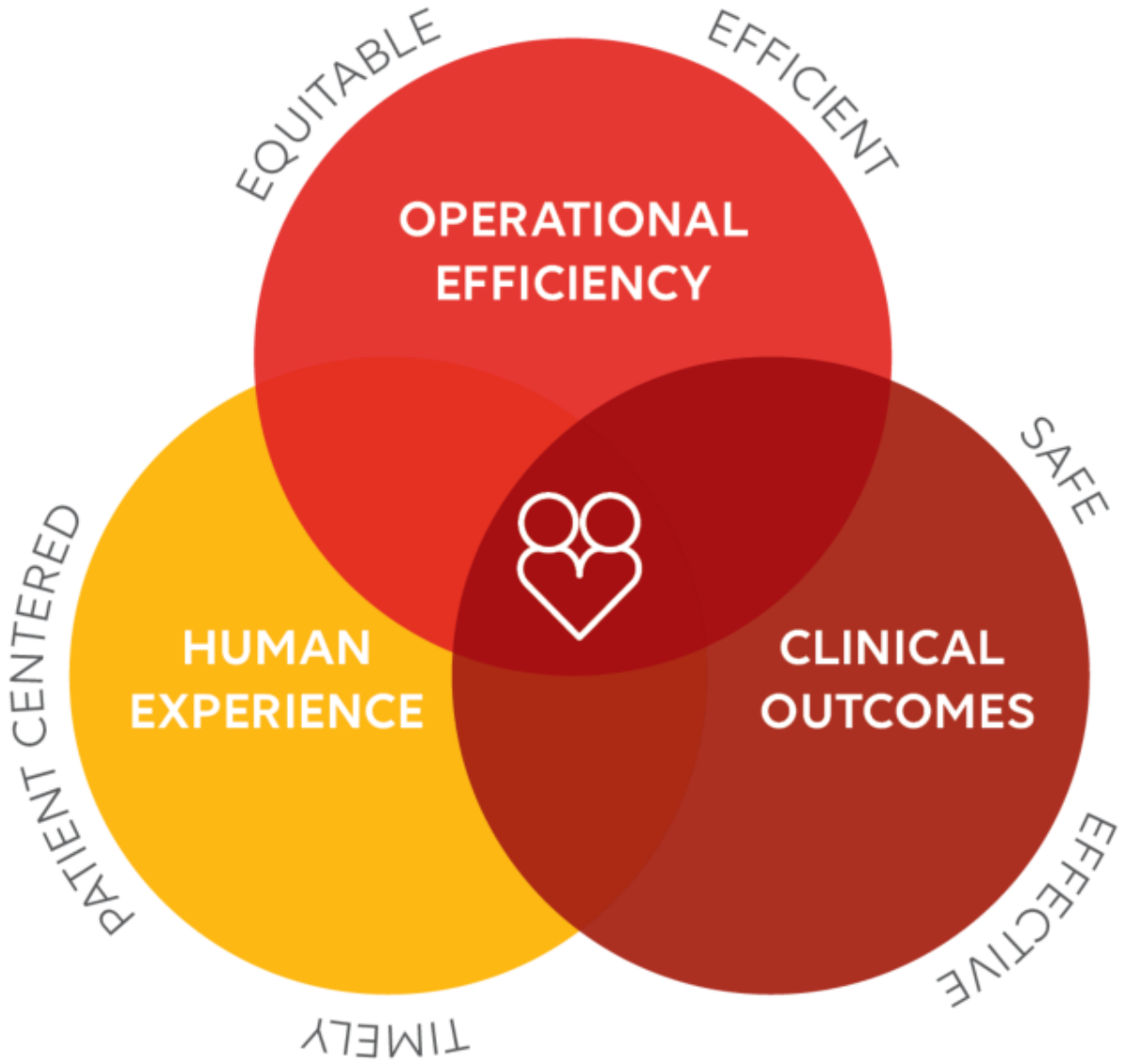


SECOND FLOOR

Monitoring & Control

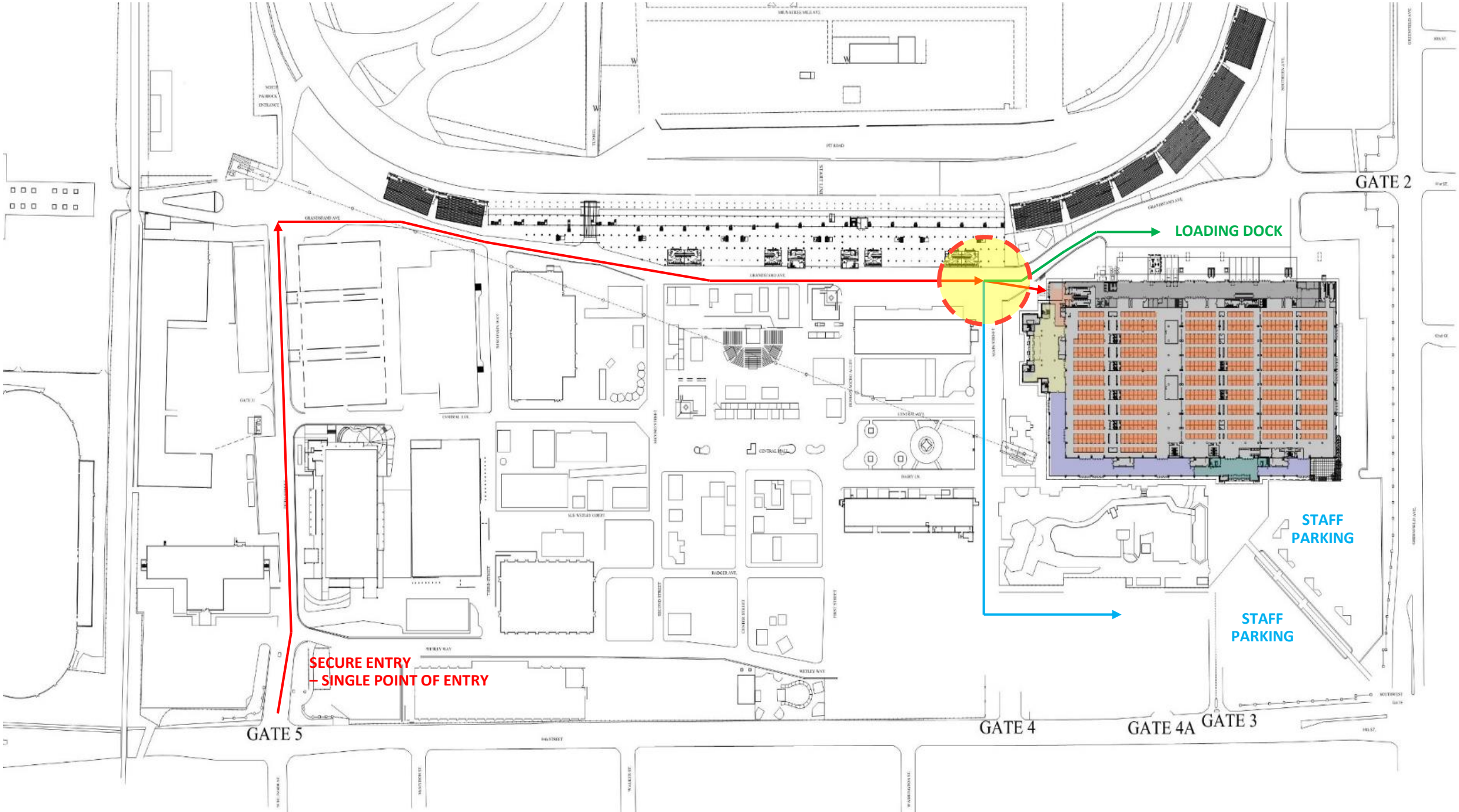
- Daily progress meetings with all stakeholders, daily construction meetings
- Daily reporting on actual expenses
- Daily reporting on safety and quality control
- Design submittals for information only
- Request for Information (RFI)’s – responded to immediately
- Definitization of contract

Design Process
The Triple Aim



Design Process – Operational Flows

- Patient flow
  - Accessing the facility
  - Movement within the facility
- Staff flow
  - Building access
  - Movement within facility
- Material flow
  - How do goods arrive and move through the facility


GATE 2
LOADING DOCK
STAFF PARKING
STAFF PARKING
SECURE ENTRY – SINGLE POINT OF ENTRY
GATE 5
GATE 4
GATE 4A
GATE 3

HGA
333 East Erie Street
Milwaukee, Wisconsin 53202
Telephone 414.278.8200

STATE FAIR PARK ALTERNATE CARE FACILITY

640 S 84TH ST.,
WEST ALLIS, WI

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF

NAME:
DATE:
REGISTRATION NUMBER:

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3099-005-00

ACTIVATION PLAN

NOT TO SCALE

DATE: APRIL 13, 2020

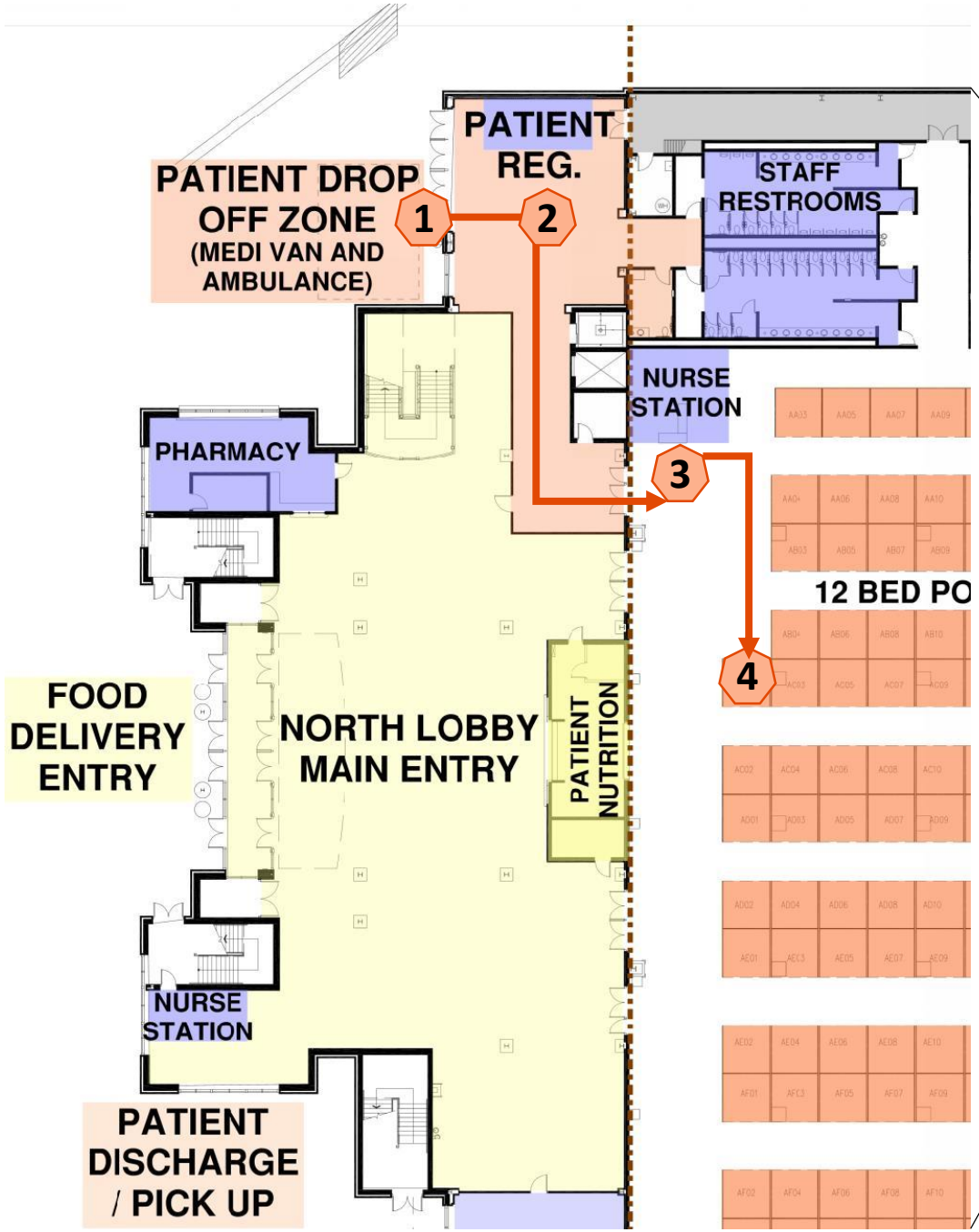
DESIGN "FOR INFORMATION"

AP01

FOR ACF STAFF & USER PURPOSES

Patient Intake Flow

1. Ambulance drop off
2. Registration desk
3. Nurse station for room assignment
4. Transport patient to “room”



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640 S 84TH ST., WEST ALLIS, WI

NO	DESCRIPTION	DATE

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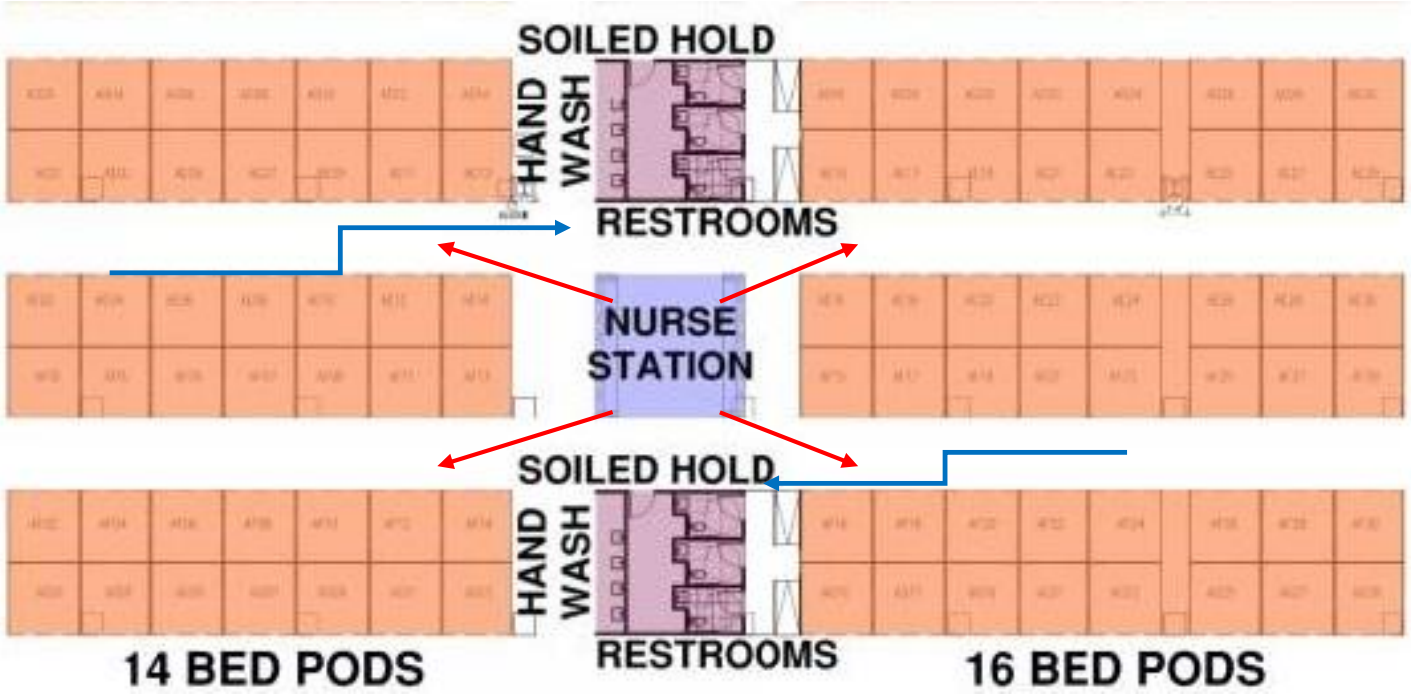
Patient Care Areas

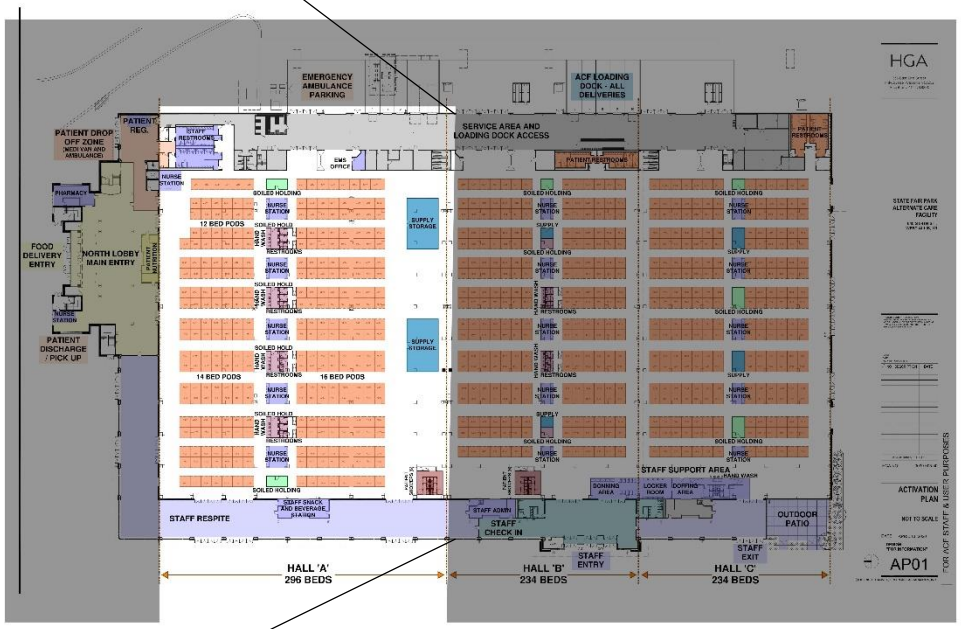


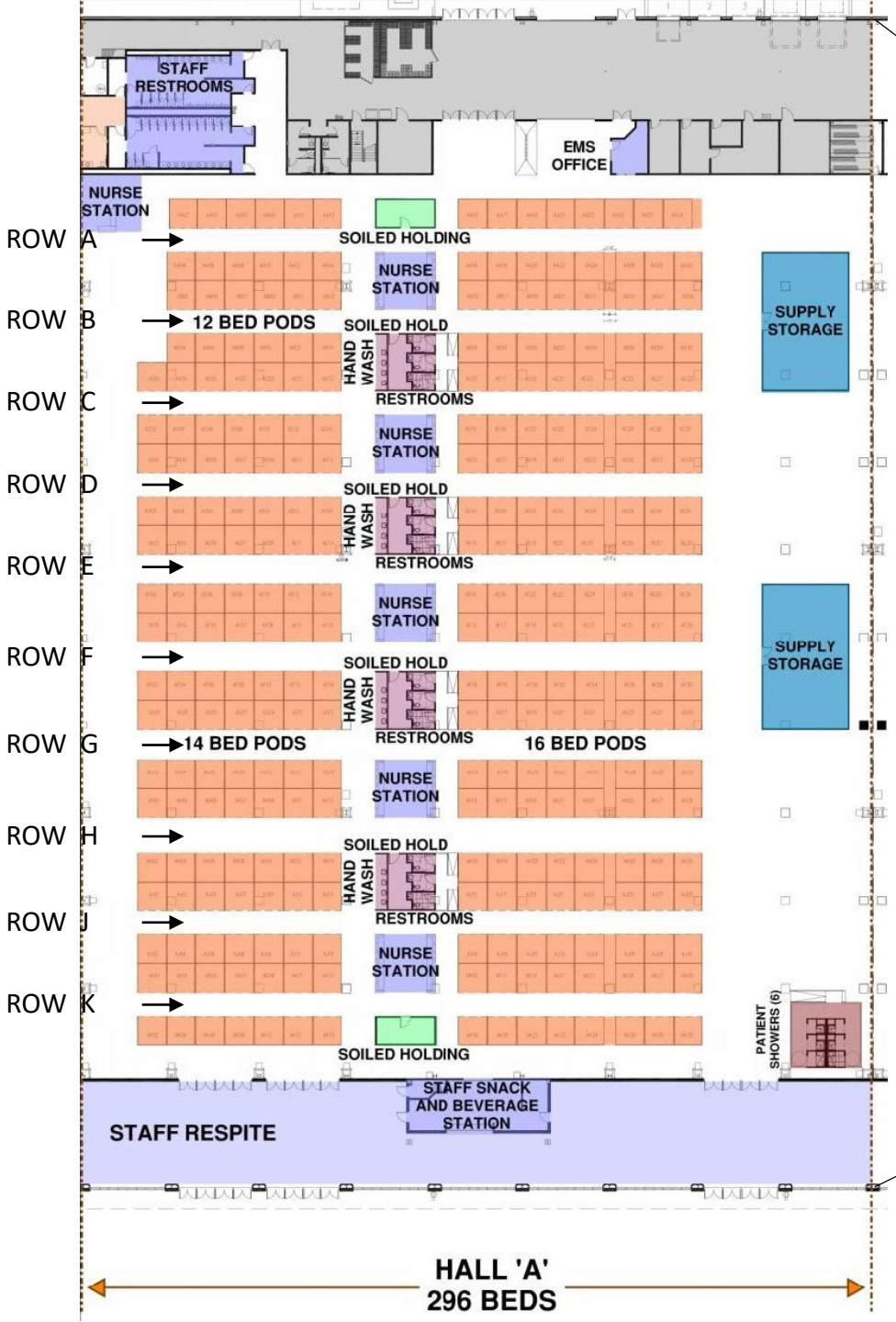
Planning Guiding Principles:

- Patient safety
  - Maximize visibility
  - Minimize potential hazards
- Minimize walking distances
  - Caregivers
  - Patients (toilet rooms)
- Clear wayfinding
- Centralized support functions
- Efficient wall layout with access to utilities
- ADA accessibility
- Best value
- Supports prefabrication

Hall A – 296 Beds

- 28 beds in rows A & B to provide additional space at entry
- Remaining rows have 30 beds row
- 12 patient toilets with additional toilets for staff use in NE corner





ROOM NAMING
EXAMPLE ROOM AB02

- HALL A
- CORRIDOR B
- ROOM 02
- THERE IS NO ROW “I” TO ELIMINATE CONFUSION

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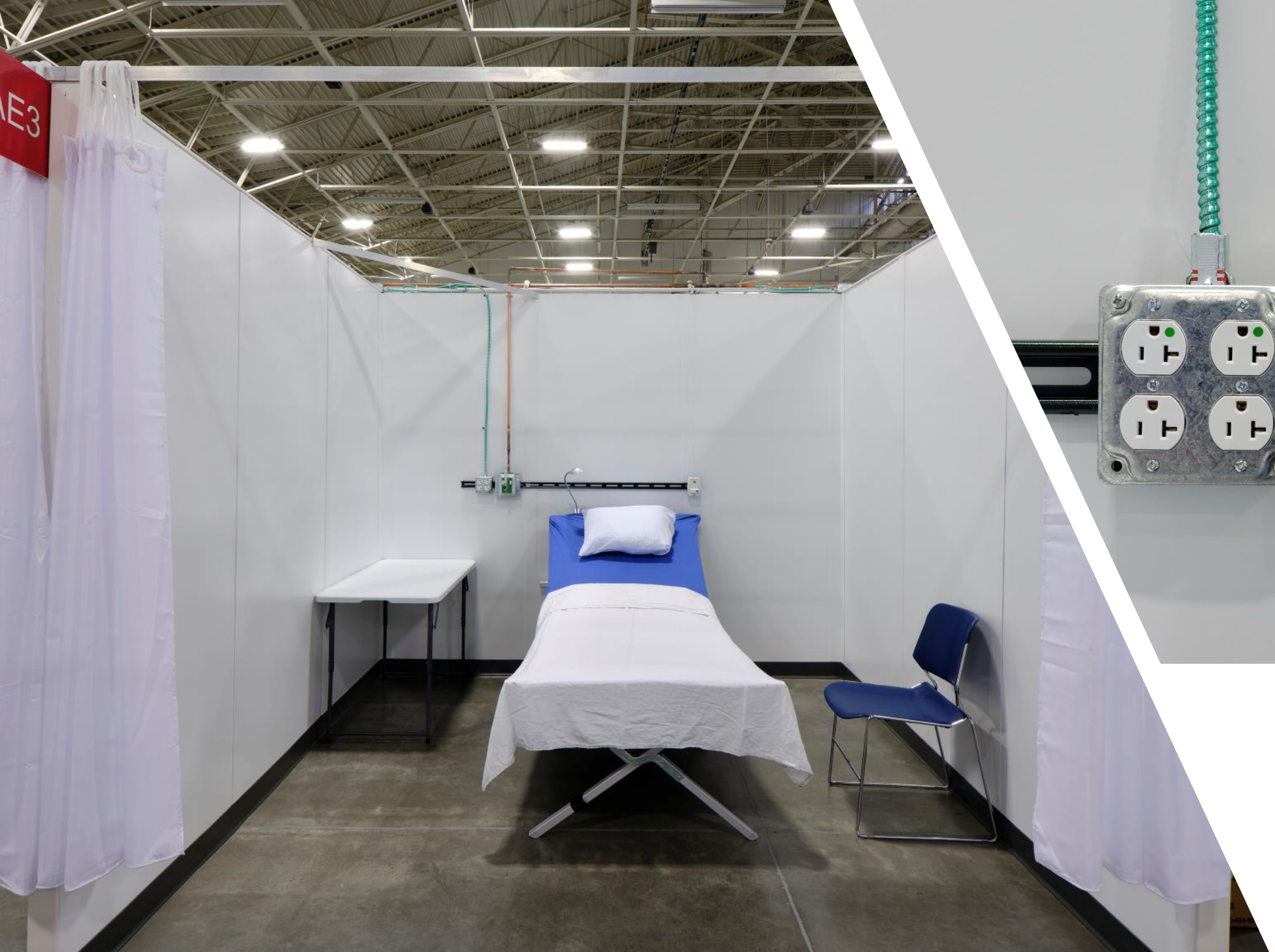
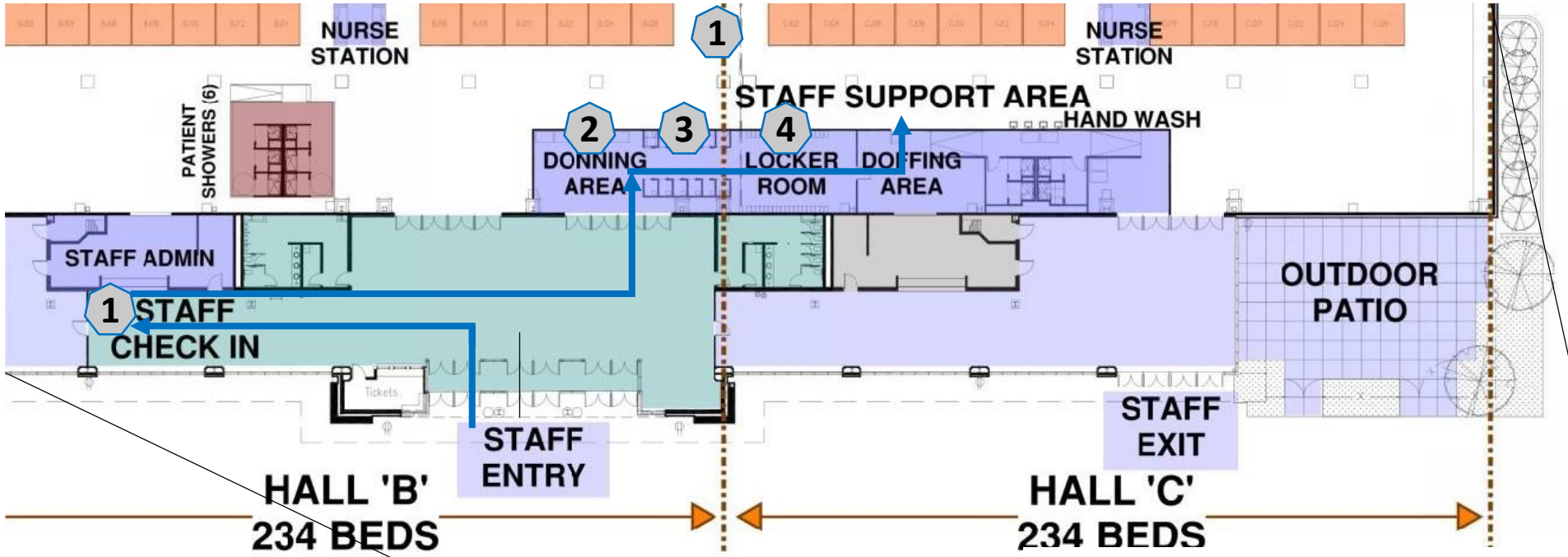
ALTERNATE CARE FACILITY
AMBULANCE
DROP OFF


AD15
AD16
PATIENT RESTROOM


AE3

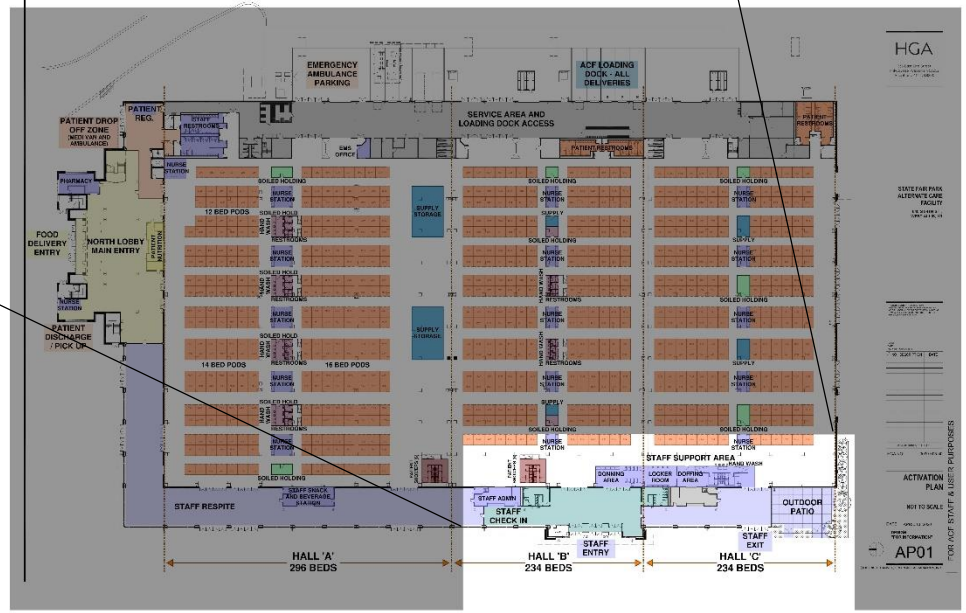

OXYGEN
(O2)


AB16
PATIENT
RESTROOM
HGA



Staff Entry Flow

1. Staff check-in and receive assignments from admin area at the concession stand
2. Staff proceed to donning area, gather PPE supplies
3. Change in changing rooms
4. Lock up personal items in lockers
5. Enter Hall ‘C’ via the ante room



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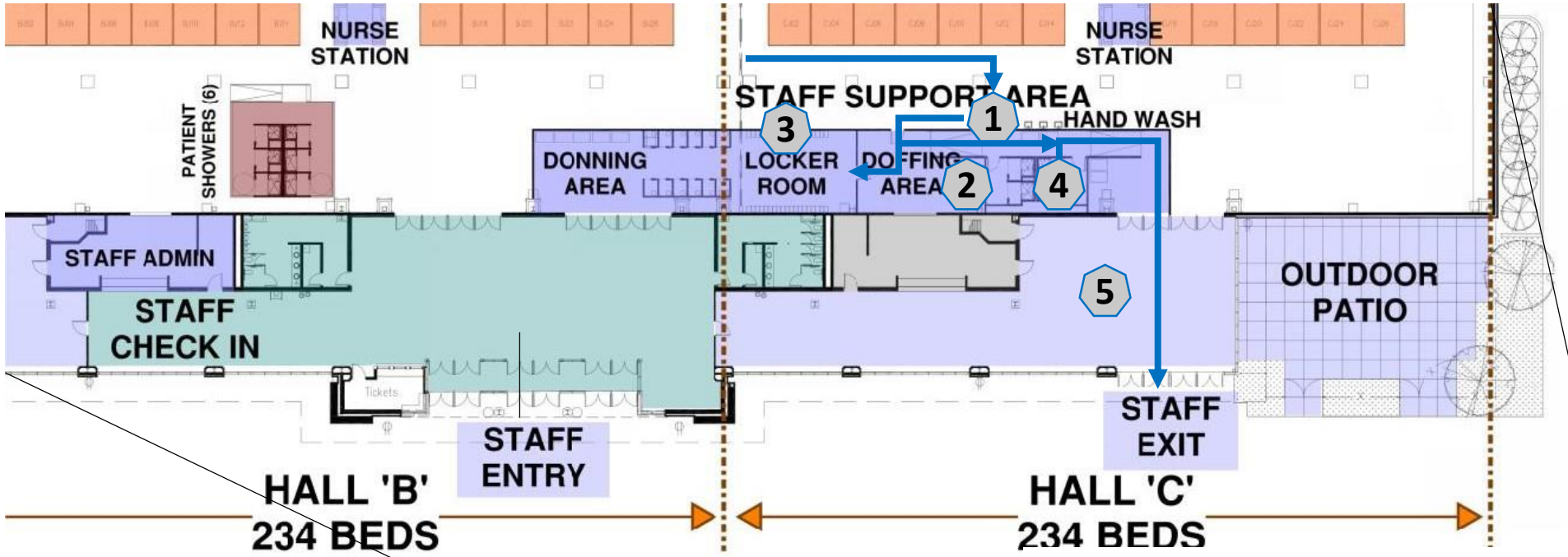
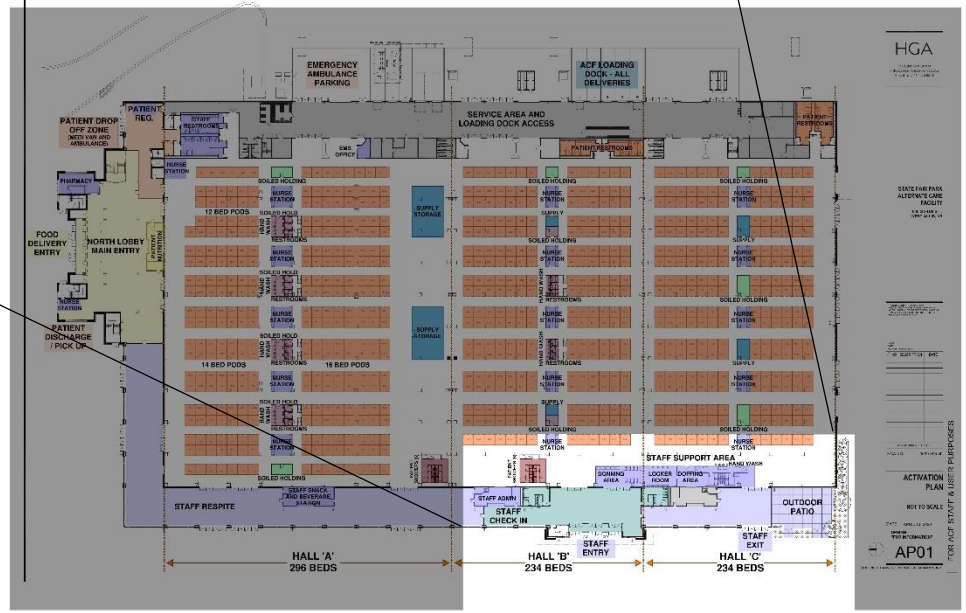


Staff Exit Flow

1. Hand wash outside of ante room
2. Enter ante room to remove & dipose of ppe
3. Gather personal items from locker room
4. Staff to shower prior to exit
5. Exit via Hall C lobby



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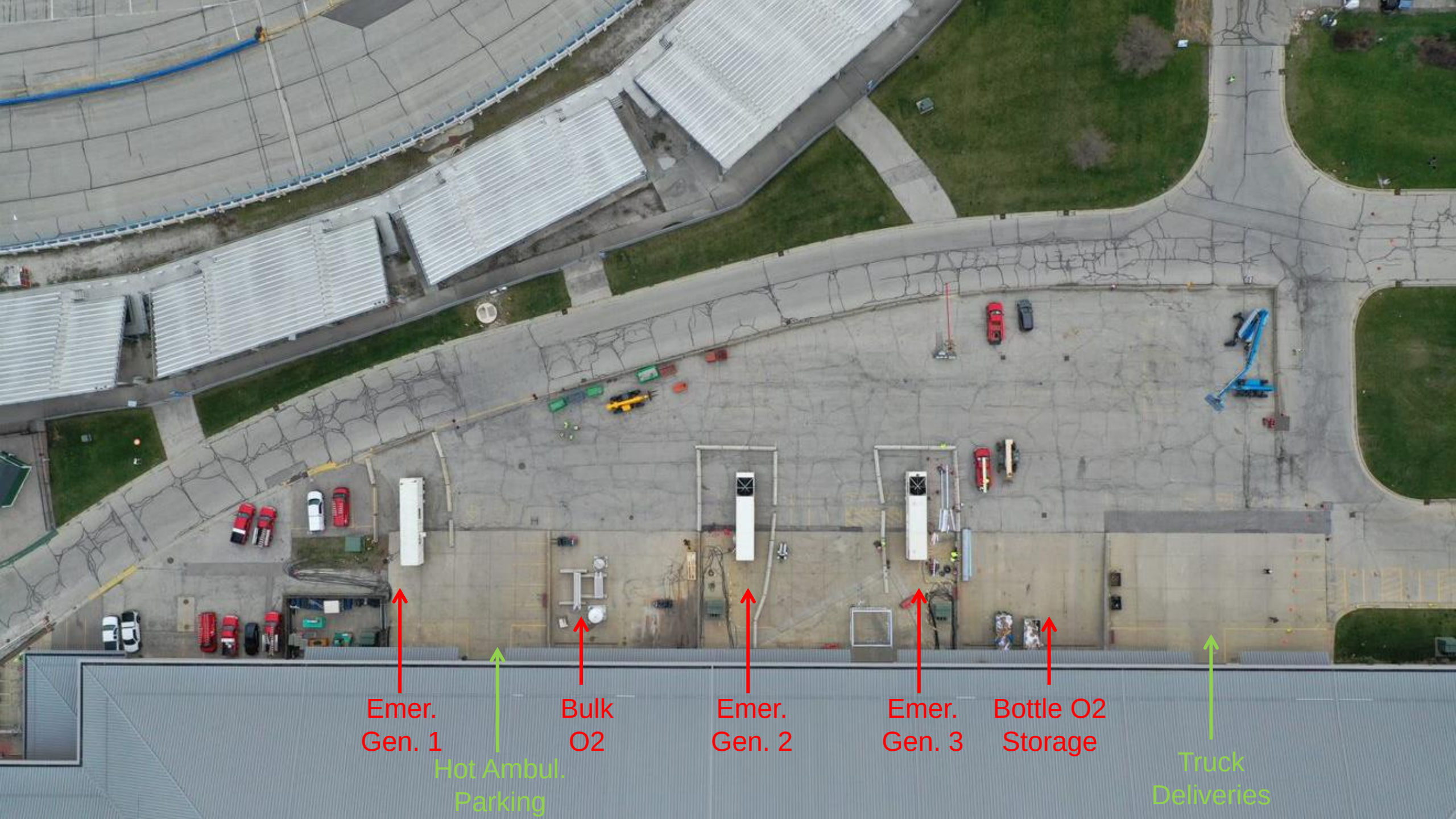
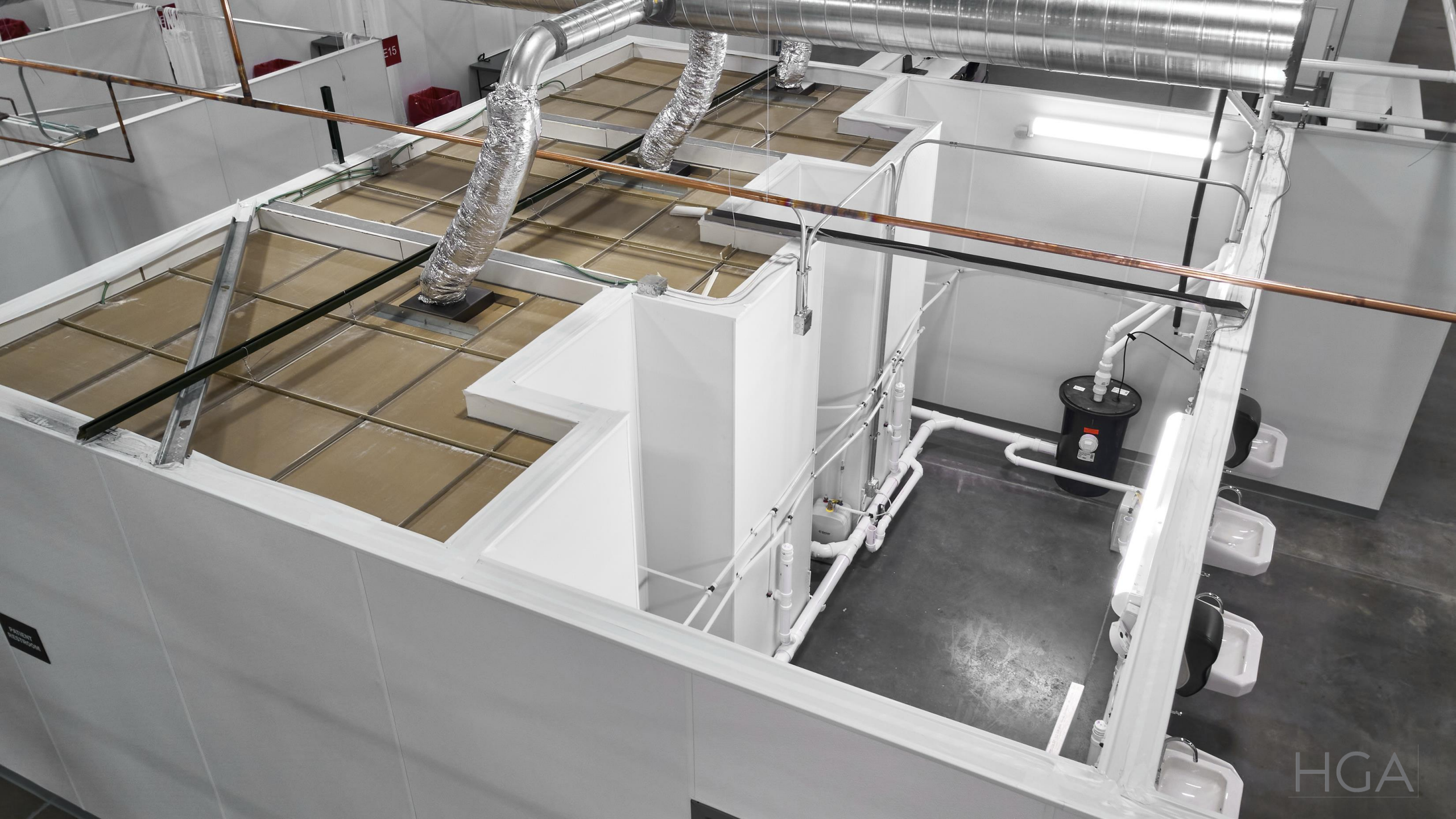

Emer.
Gen. 1
Hot Ambul.
Parking
Bulk
O2
Emer.
Gen. 2
Emer.
Gen. 3
Bottle O2
Storage
Truck
Deliveries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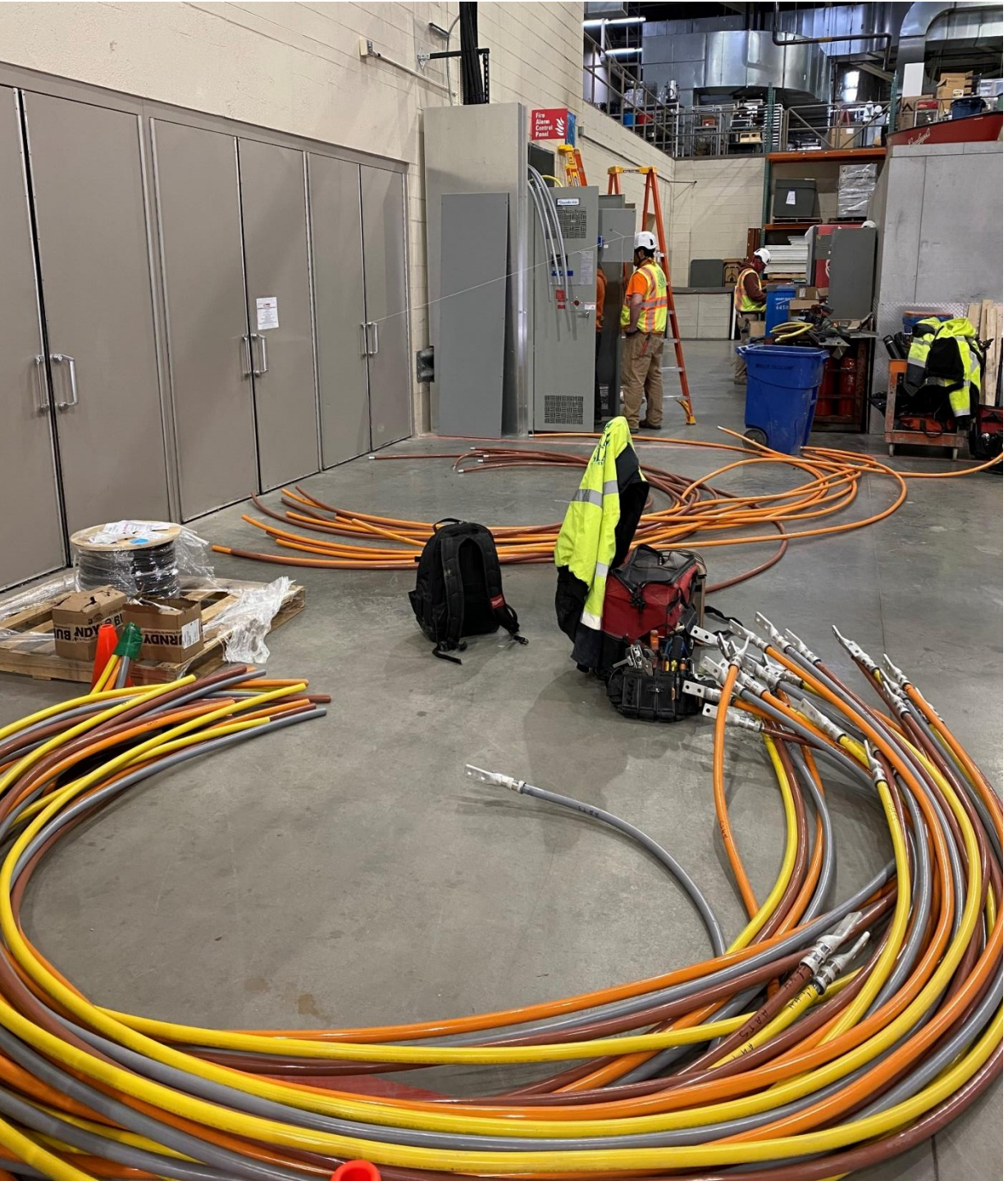
HGA



East Dock Electrical Distribution

Electrical Systems Prefabrication Delivery and Installation


CAT
Rental Power
FABICK CAT
POWER SOLUTIONS
NATIONAL
RENT-A-FENCE
800-352-5675
American Maintenance
HARVEST FAIR
BELL AMBULANCE
264-BELL
Fun Any Way
YOU SLICE IT!
WISCONSIN
STATE FAIR PARK
I ♥ WI STATE FAIR
OXYGEN
REFRIGERATED
LIQUID

Oxygen Systems Prefabrication Delivery and Installation

Close Out and Operation & Maintenance (O&M)

- State representatives and clinicians need to be part of pre & final inspections
- Integration of new team into facility
- As-built drawing review
- Turnover letter to State
- Operations & Maintenance (O&M)
  - Not responsibility of USACE or contractor – but Wrap Around Service
  - Warranties limited to manufacturer warranties on new equipment; no warranties on construction

Lessons Learned – Hot Wash

Teamwork

- Assemble trusted, highly-qualified and hard-working partners
- Bring all key stakeholders into the Big Room (face-to-face and on-site)
  - USACE
  - Building Owner (Leaders & Facilities Team)
  - Healthcare provider
  - Government officials
  - AHJ's
  - Construction Manager
  - A&E Designers
  - Trade Partners
- High energy level and excitement from the team.
- Open line of communication with all parties
- Provide DM's with the information needed to make decisions quickly
- Take a breath and pause for a moment to plan the work flow
- Assign 1 content manager from each team…..Ben, Matthew…

Design

- Lead with Strategy - review operations plan with Operators to understand their process flow to develop the program
- Ask the right questions.
- Determine the high-level flows (Patient, Staff and Materials) Develop an efficient logical plan that responds to operations quickly & distribute to the team
- Leverage ALL the talent in the room (Architects, Engineers, Construction Manager, Trades)
- Past working relationships key (Gilbane, HGA, Ahern, Staff)

Lessons Learned

Tools

- Use MS Teams to track tasks due (ASI, Punchlist, As-builts, Etc.)
- Plan the deliverable schedule with a QC check
- We needed a shared folder on a cloud network. Relying on people to forward emails is too risky
- Implement commissioning earlier to test existing HVAC equipment
- HGA's iPad based punchlist tool was great.
- Drone footage was valuable

Details

- Add electrical panel/clearance to backgrounds
- Earlier interior elevation of Patient Room & other key spaces
- Earlier Site drawing. Focused team on this topic
- Consider ceilings in soiled utility rooms.
- Room Numbering & Signage
- Use Revit
- Develop headwall earlier than prefab starts
- Solid existing drawings…. On other projects this was a huge problem out of the gate

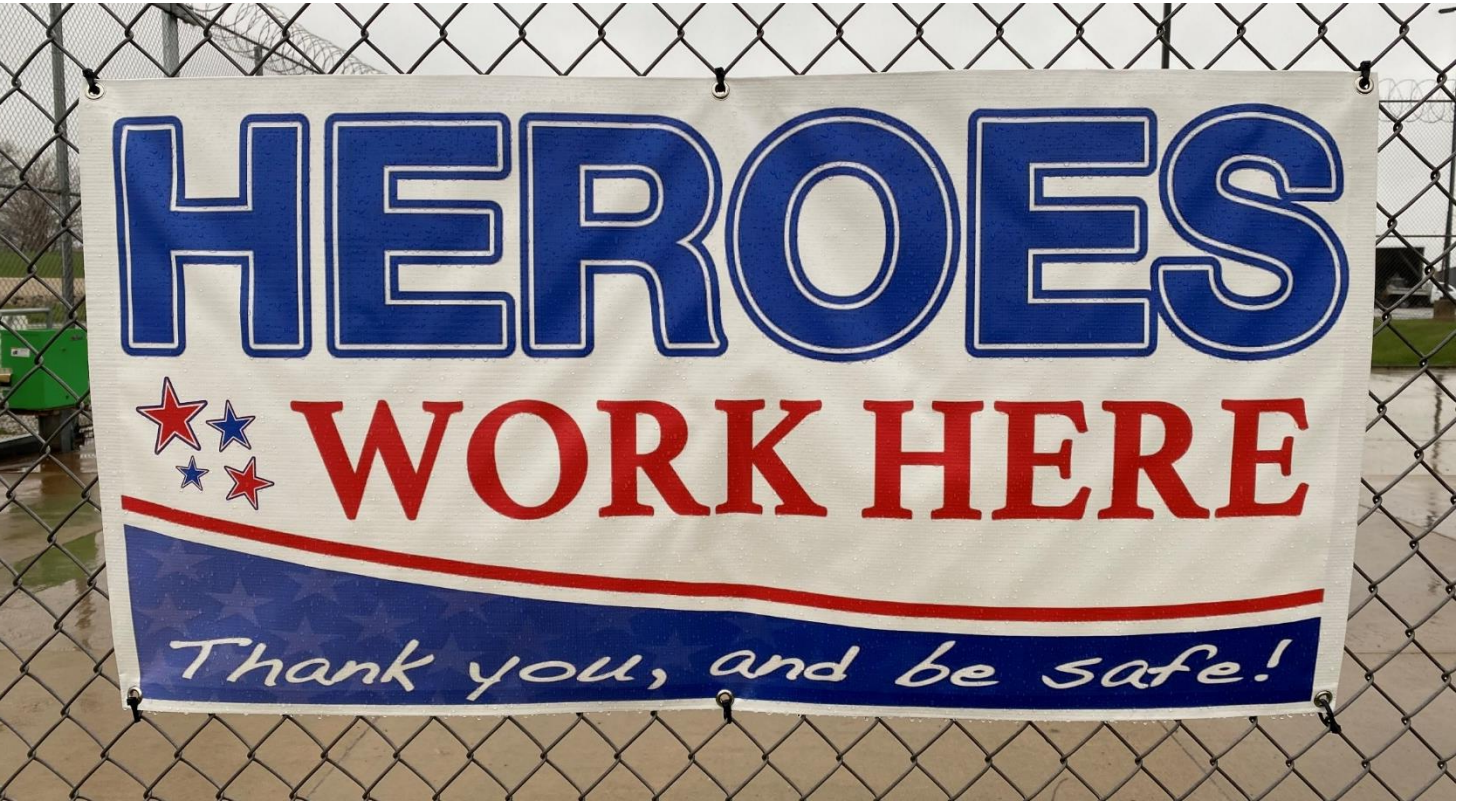
Converting a Prison into a Field Hospital

Our New Mission…

- Convert existing prison facility into an Alternate Care Site (ACS)
  - 30 bed dorm low acuity (inline O2), 90 beds – non acute (no O2)
  - Temporary medical gas (O2) facilities
  - Infrastructure (HVAC, Electrical, IT, Fire Protection) updates
- Staff support areas – medical and correction officers
- 20 days to complete

(Re)Assembling the Team

- Added corrections experience
- Integrated lessons learned



Team Caring Moment

Authorities Having Jurisdiction

USACE - Contracting Officer's Representative (COR) - Mr. Robert Vanoer - Scope Direction | Approval | Administration

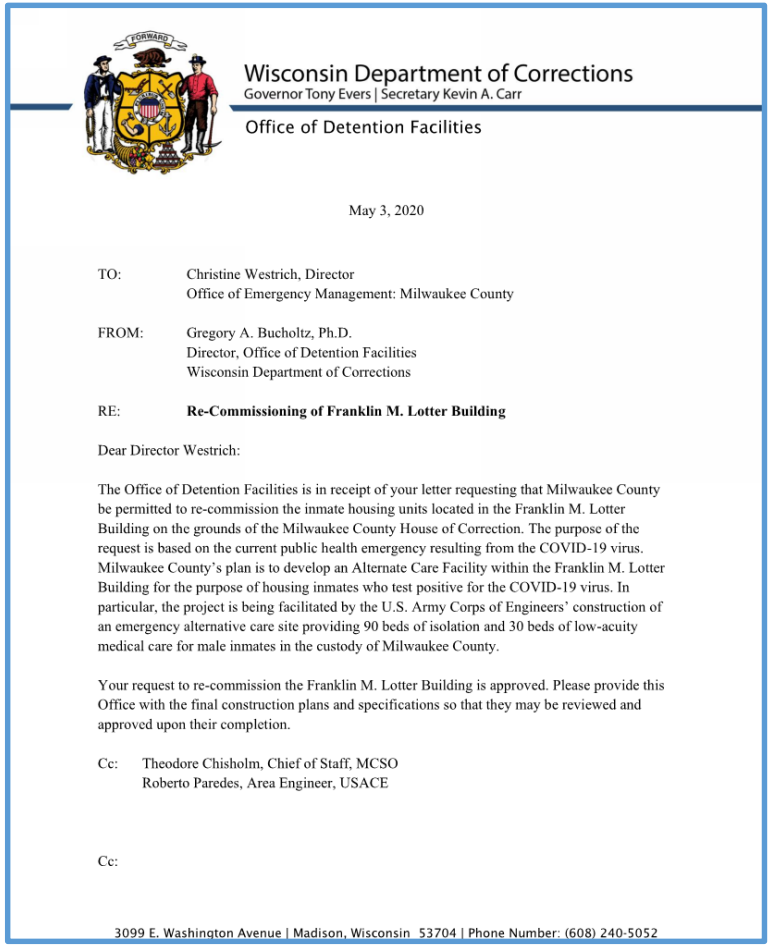
Milwaukee County - Emergency Management Director - Ms. Christine Westrich

State of Wisconsin - Director of Detention Facilities - Mr. Gregory Bucholtz
- Plan Review and Letter 5/4
- Final Inspections Team

City of Franklin - Building - Building Permit and Inspection(s) - Mr. Scott Satula
- Demolition Permit 5/3
- Building Permit 5/6 (USACE Letter + Stamped Drawings)
- General Inspections and Final Inspection Team

City of Franklin - Fire (Fire Suppression | Fire Alarm) - Mr. Adam Remington
- Final Inspections Team

City of Franklin - Health Services
- Final Inspections Team



Wisconsin Department of Corrections
Governor Tony Evers | Secretary Kevin A. Carr
Office of Detention Facilities

May 3, 2020

TO: Christine Westrich, Director
Office of Emergency Management: Milwaukee County

FROM: Gregory A. Bucholtz, Ph.D.
Director, Office of Detention Facilities
Wisconsin Department of Corrections

RE: **Re-Commissioning of Franklin M. Lotter Building**

Dear Director Westrich:

The Office of Detention Facilities is in receipt of your letter requesting that Milwaukee County be permitted to re-commission the inmate housing units located in the Franklin M. Lotter Building on the grounds of the Milwaukee County House of Correction. The purpose of the request is based on the current public health emergency resulting from the COVID-19 virus. Milwaukee County's plan is to develop an Alternate Care Facility within the Franklin M. Lotter Building for the purpose of housing inmates who test positive for the COVID-19 virus. In particular, the project is being facilitated by the U.S. Army Corps of Engineers' construction of an emergency alternative care site providing 90 beds of isolation and 30 beds of low-acuity medical care for male inmates in the custody of Milwaukee County.

Your request to re-commission the Franklin M. Lotter Building is approved. Please provide this Office with the final construction plans and specifications so that they may be reviewed and approved upon their completion.

Cc: Theodore Chisholm, Chief of Staff, MCSO
Roberto Paredes, Area Engineer, USACE

Cc:

3099 E. Washington Avenue | Madison, Wisconsin 53704 | Phone Number: (608) 240-5052

Kick-Off Meeting

- Work scope (PWS)
- Preliminary floor plan
- Facility tour

Performance Work Statement (PWS)

Convert an Open Area Dormitory within the Secured Correctional Campus into a Non Acute COVID Patient Care Facility

Target Audience: Two categories of patient spaces will be at the site. FPA 99 Category 3 Patient, which is defined as patient care "activities in which the failure of equipment or a system is not likely to cause injury to patients, staff, or visitors but can cause discomfort" (NFPA 99 para. 4.1.3). [only 1 category identified]

1.0 GENERAL

This PWS provides minimum criteria for "sufficiency of care" to provide a rapid response to the expected need, therefore, it is critical that local authorities and/or Area Fire Marshal are involved in the development of the design and acceptance of this temporary Alternate Care Facility site.

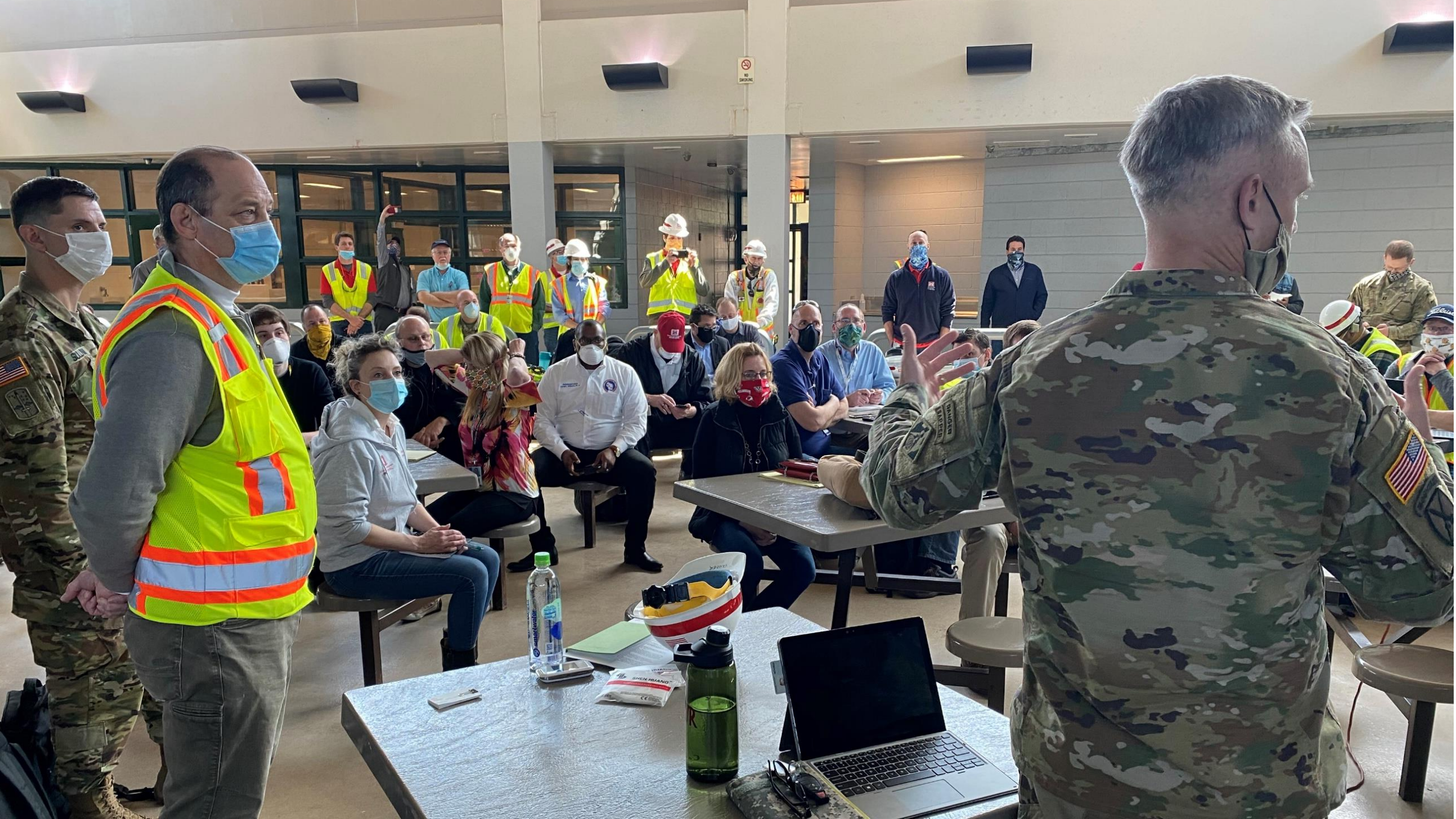
The Coronavirus disease 2019 (COVID-19) is a respiratory infection caused by newly emergent coronavirus first recognized in Wuhan, China in December of 2019. For the purpose of this document. Non-acute COVID-19 patients are defined as those patients that do not require a ventilator, but may require oxygen (i.e. the use of either nasal tube or mask) and do require nursing support.

The Contractor shall retrofit the selected space into a Temporary Alternate Care Site (ACS) serving primarily non acute COVID-19 patients plus some low acute COVID-19 patients in transition to a medical facility which supports higher acuity care.

Standard dormitory layouts provide for 32 beds spaces each. The Contractor will not provide beds. Dormitory infrastructure has many built-in fire protection and life safety safeguards. The existing emergency duty generator shall be tested and repaired as required along with essential power circuits to ensure that uninterrupted power is available at all times. Submit the report to the COR within 24 hours of completing the test. All plumbing fixtures will be inspected and all brought up to full functioning performance.

Within the **Lotter Building** the Contractor shall convert three (3) open dormitory areas of approximately 2500 sf each (including toilet and shower facilities), support areas such as the Dining room (room 130), and other support areas into a **non-acute infectious COVID-19 patient care facility based on the requirements of NFPA 99 Space Category 3 (Basic Care)**.

The Contractor shall convert one (1) open dormitory area of approximately 2500 sf (including toilet facilities) into a low acute infectious COVID-19 patient care facility based on the requirements of NFPA 99 Space Category 3 (Basic Care). **A centralized oxygen distribution system will be provided. Oxygen dispensing shall be provided at a minimum volume flow rate of 6 liters per minute at the outlet for each of the 32 patient's beds.** Other medical gas systems, such as medical grade air or vacuum lines, will not be provided.




Milwaukee County
House of Correction
H.O.C
Google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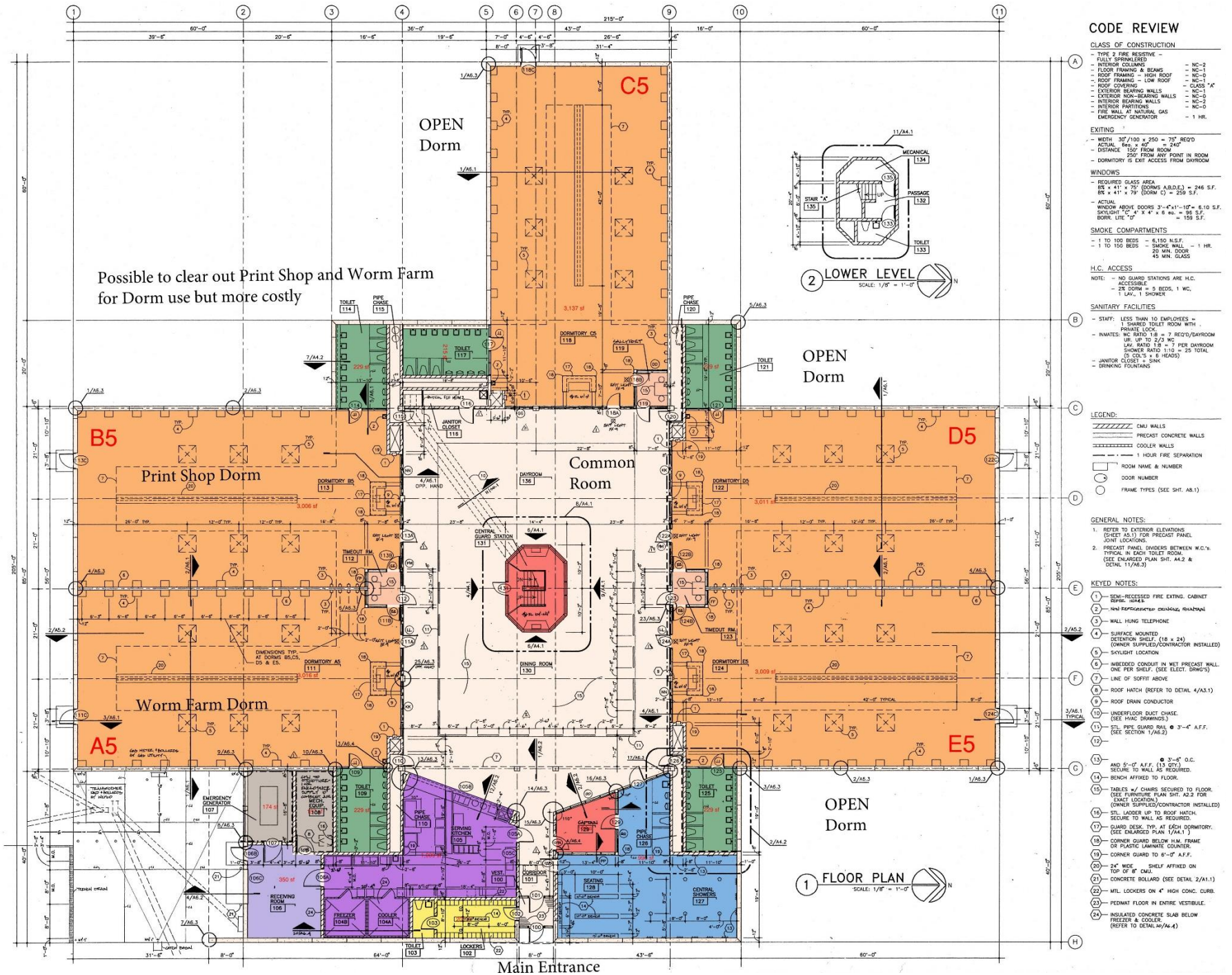
EXIT
REISINGER



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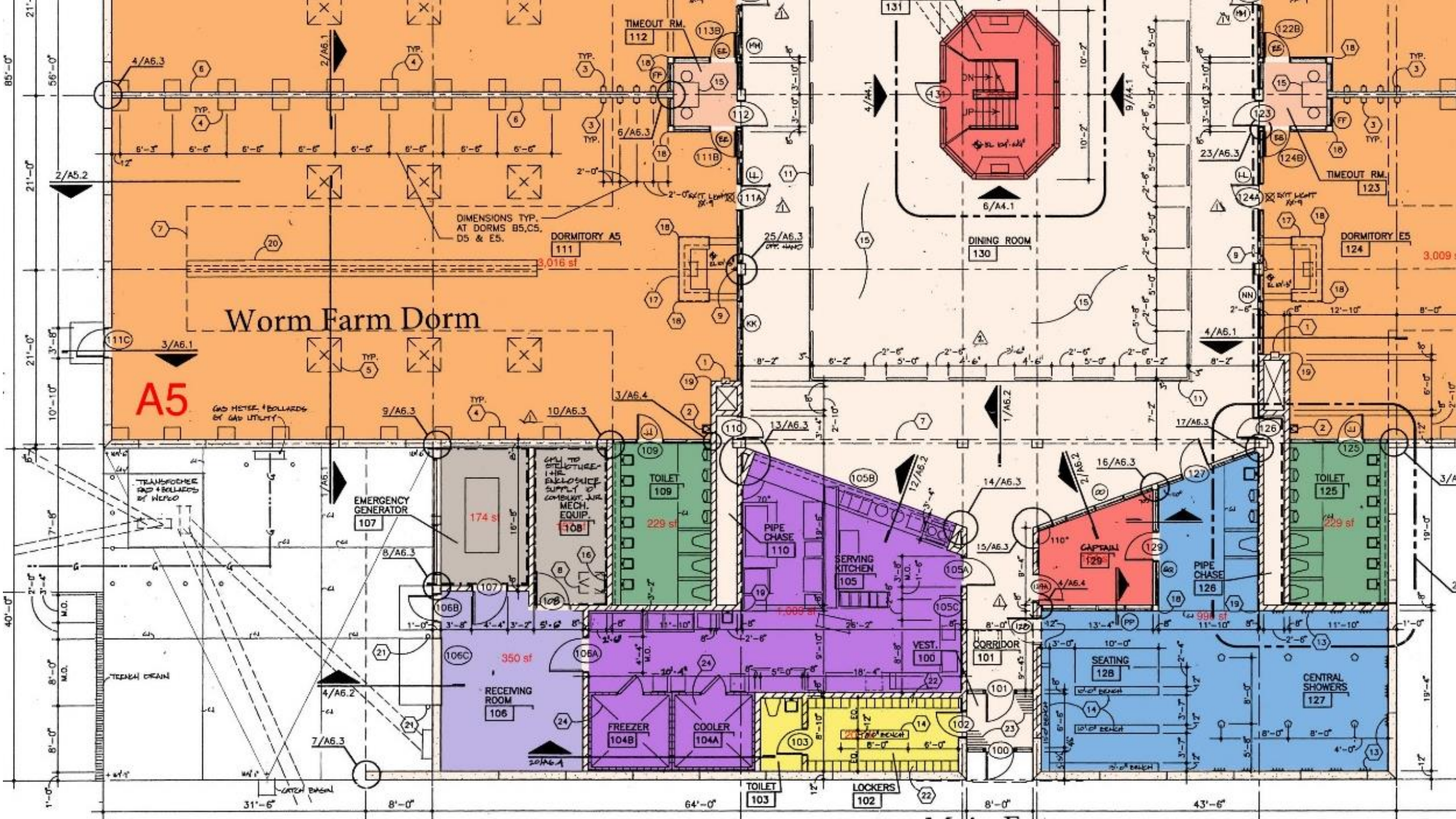

Worm Farm Dorm
A5
TIMEOUT RM.
112
DORMITORY A5
111
3,016 sf
DIMENSIONS TYP. AT DORMS B5,C5, D5 & E5.
DINING ROOM
130
DORMITORY E5
124
TIMEOUT RM.
123
EMERGENCY GENERATOR
107
174 sf
MECH. EQUIP.
108
TOILET
109
229 sf
PIPE CHASE
110
SERVING KITCHEN
105
1,009 sf
CAPTAIN
129
PIPE CHASE
126
TOILET
125
229 sf
996 sf
CORRIDOR
101
VEST.
100
SEATING
128
CENTRAL SHOWERS
127
RECEIVING ROOM
106
350 sf
FREEZER
104B
COOLER
104A
TOILET
103
LOCKERS
102
TRANSFORMER AND 4 BOLLARDS BY MCP&O
GAS METER, 4 BOLLARDS BY GAS UTILITY
TRENCH DRAIN
CATCH BASIN
31'-6"
8'-0"
64'-0"
8'-0"
43'-6"

Overall Timeline

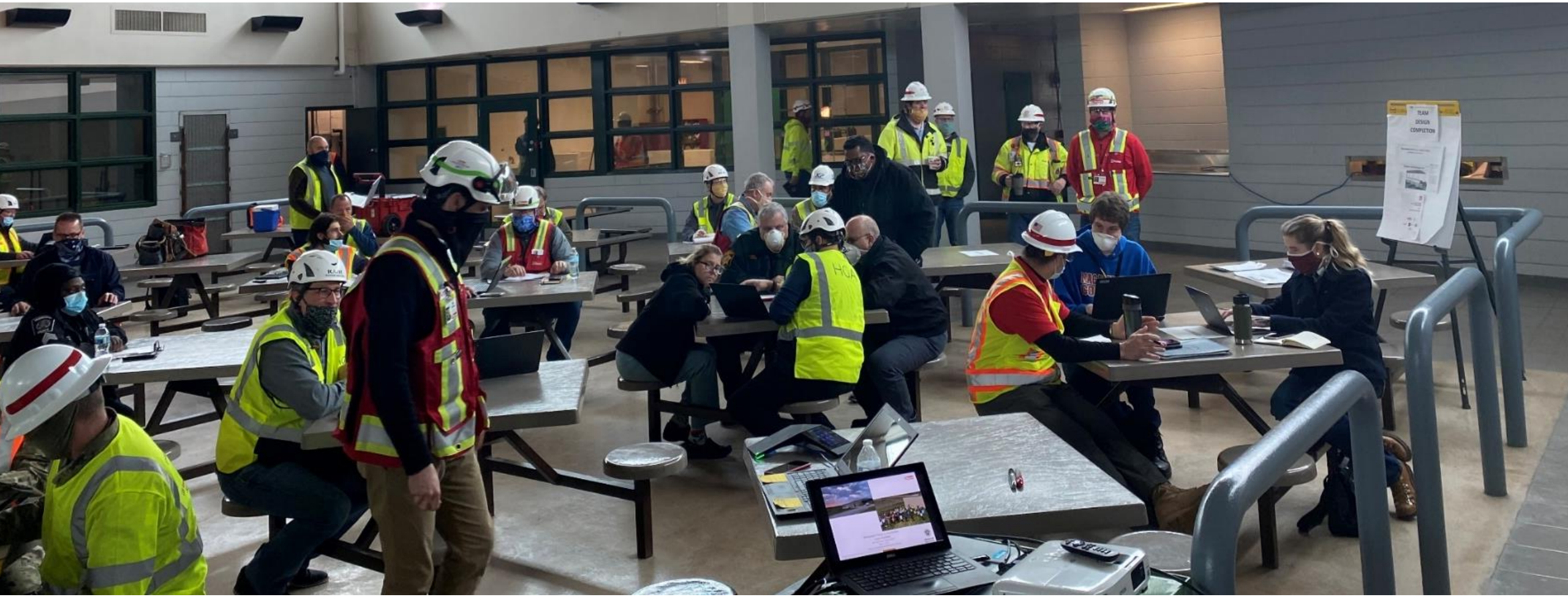
USACE Initiation

Design & Execution

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

1. Day 1 - Mobilize and Kick-Off (May 1st)
2. Days 1-3 - Design, Product Data and Shop Drawing Completion
3. Days 2-5 - Source and Release ALL Materials and Equipment
4. Day 4 - Sign-Off on Design, Product Data and Shop Drawing
   Day 4 - Start Construction Demolition (May 4th)
5. Day 5 – Rebar, O2 Piping
6. Day 6 - Bollard
7. Day 7 – Hardware – Frames, Fixtures – Showers
8. Day 8 – Heat Exchanger
9. Day 9 – Stainless
10.
11. Day 11 - Start Closeout, Testing and Commissioning (Red Zone)
    Day 11 – Generator, Transfer Switch, Misc. Parts and Retrofit
12. Day 12 – Filters, HEPA Units, Fire Alarm Devices, Security Parts and Cameras, Countertops
13. Day 13 – Fans, Flush Valves
14. Day 14 – Security Air Distribution and Access Panels, Doors and Hardware
15. Day 15 – Mixing Valves, Signage
16. Day 16-17 – O2 Farm Delivery, Install and Test
17.
18. Day 18 – One End Cap Locker
19. Day 19 - Start Turnover Process
20. Day 20 - Turnover and Lesson Learned (Hot Wash)

Big Room Re-Imagined



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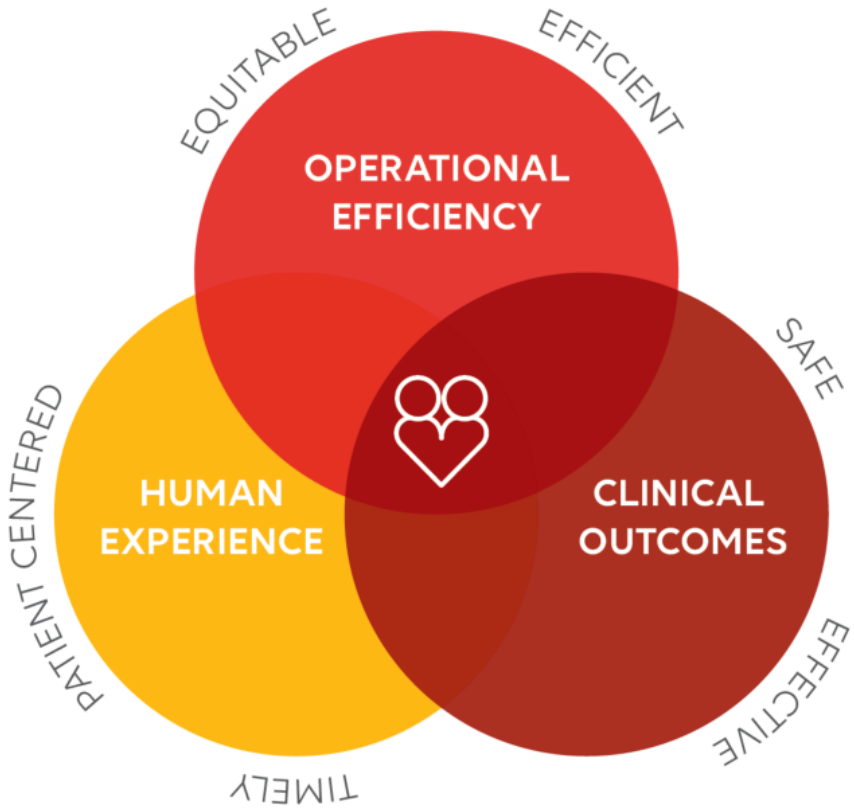
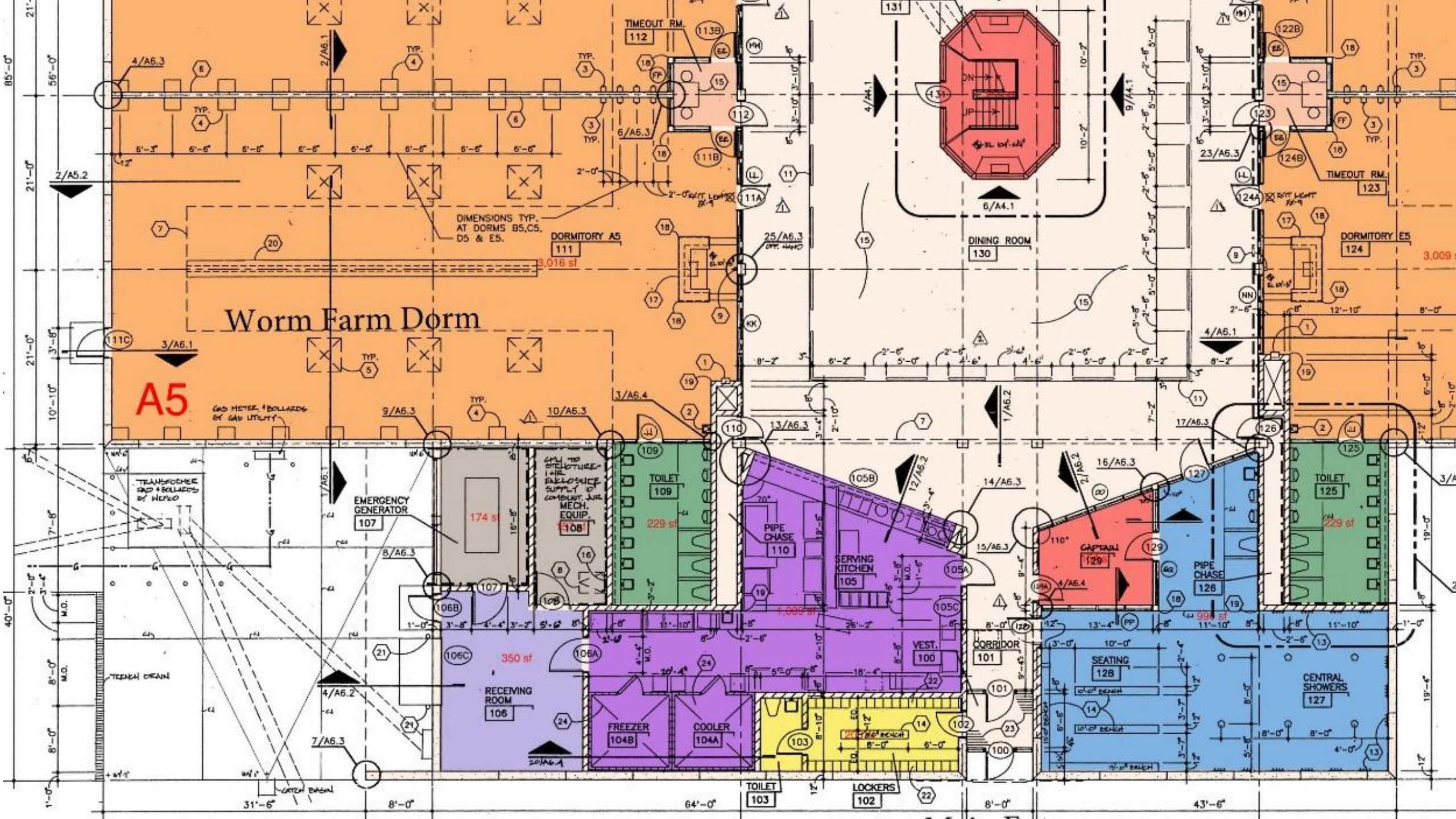
Project Delivery

an AIA Knowledge Community

Design Process

- Patient/inmate flow
  - Accessing the facility
  - Movement within the facility
  - Security and safety
- Staff flow
  - Building access
  - Movement within facility
  - Patient observation and interaction
  - Safety
- Material flow
  - How do goods arrive and move through the facility

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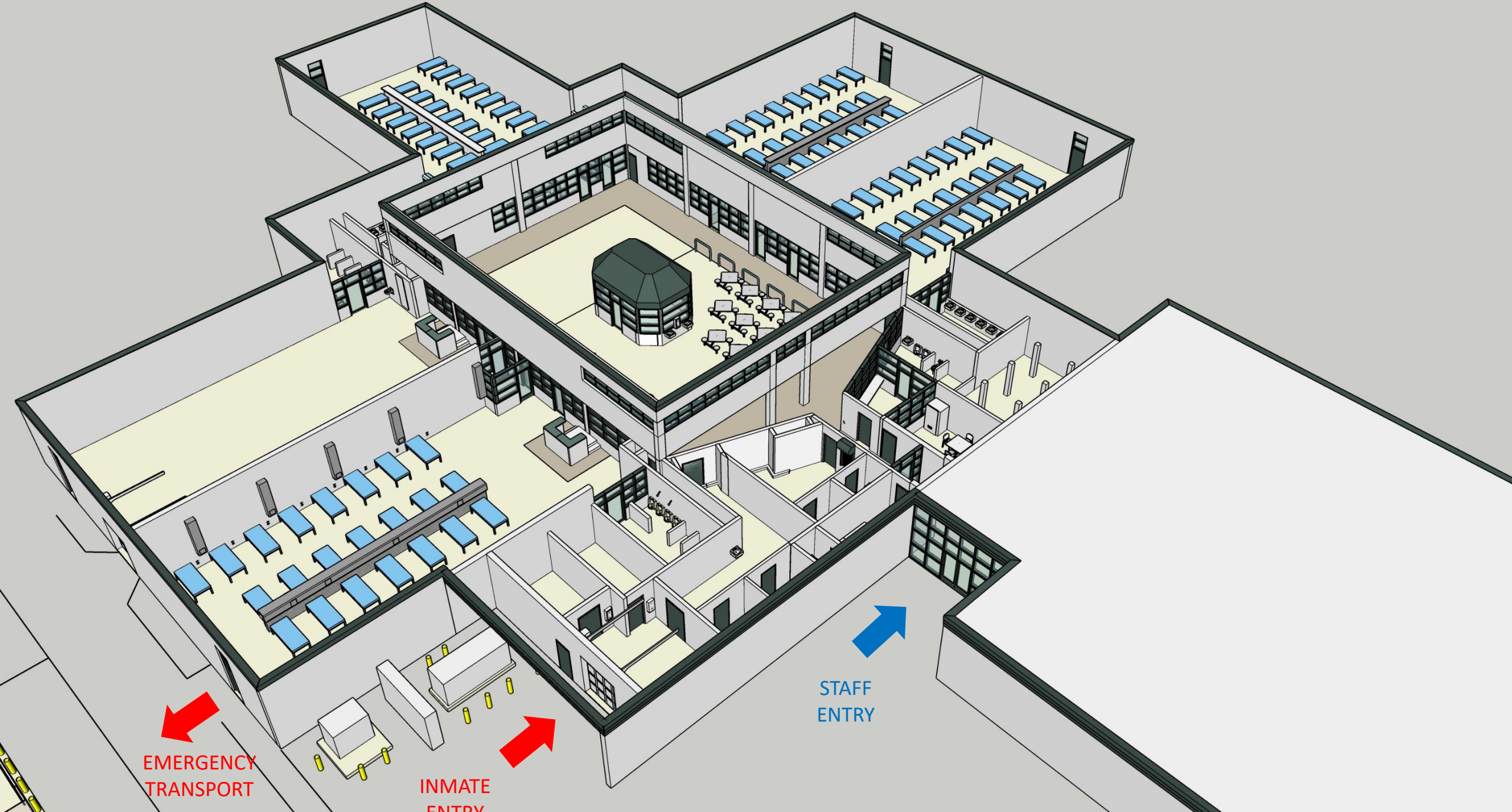
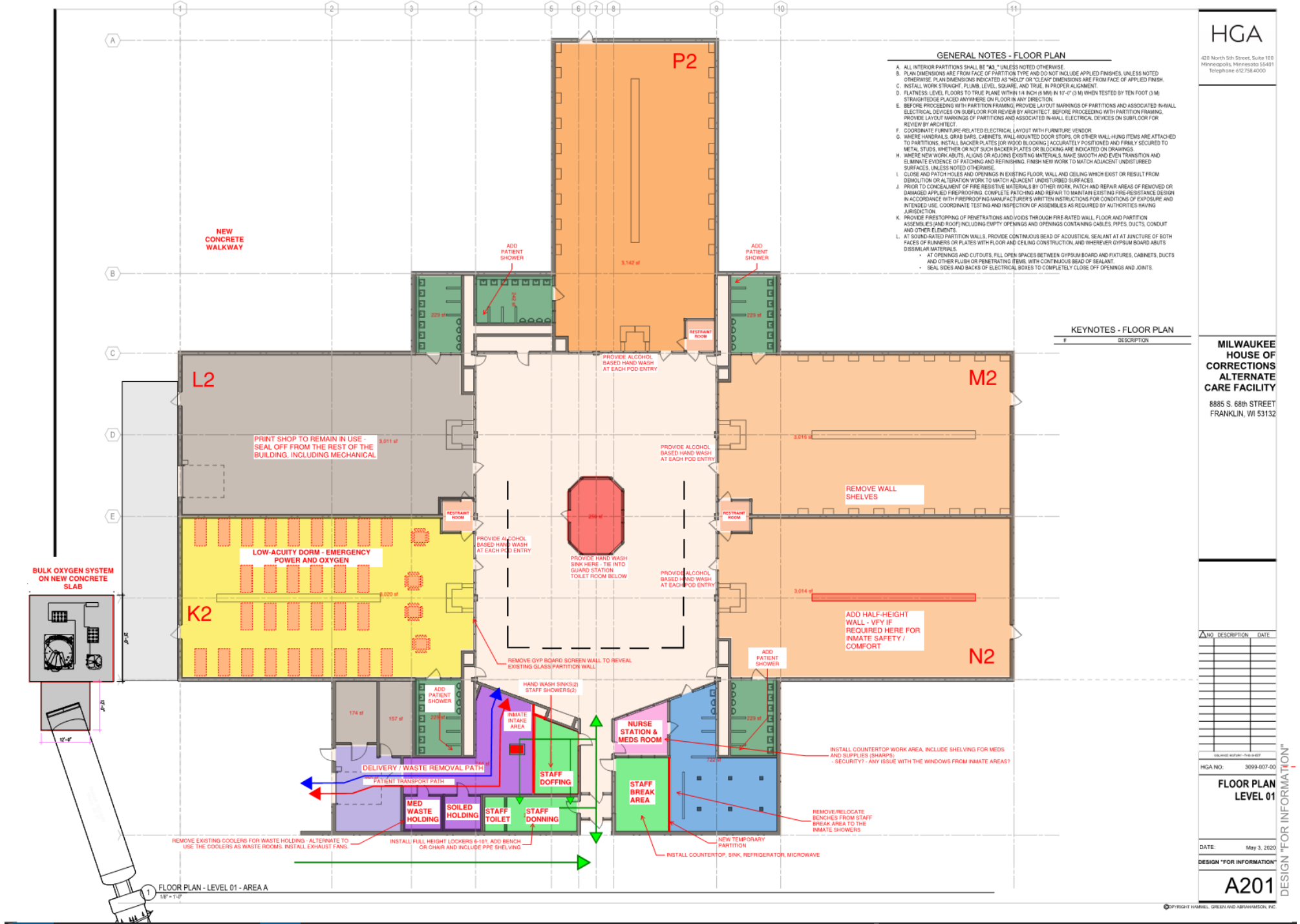

EMERGENCY
TRANSPORT
INMATE
ENTRY
STAFF
ENTRY



GENERAL NOTES - FLOOR PLAN

A. ALL INTERIOR PARTITIONS SHALL BE "A3_" UNLESS NOTED OTHERWISE.
B. PLAN DIMENSIONS ARE FROM FACE OF PARTITION TYPE AND DO NOT INCLUDE APPLIED FINISHES, UNLESS NOTED OTHERWISE. PLAN DIMENSIONS INDICATED AS "HOLD" OR "CLEAR" DIMENSIONS ARE FROM FACE OF APPLIED FINISH.
C. INSTALL WORK STRAIGHT, PLUMB, LEVEL, SQUARE, AND TRUE, IN PROPER ALIGNMENT.
D. FLATNESS: LEVEL FLOORS TO TRUE PLANE WITHIN 1/4 INCH (6 MM) IN 10'-0" (3 M) WHEN TESTED BY TEN FOOT (3 M) STRAIGHTEDGE PLACED ANYWHERE ON FLOOR IN ANY DIRECTION.
E. BEFORE PROCEEDING WITH PARTITION FRAMING, PROVIDE LAYOUT MARKINGS OF PARTITIONS AND ASSOCIATED IN-WALL ELECTRICAL DEVICES ON SUBFLOOR FOR REVIEW BY ARCHITECT. BEFORE PROCEEDING WITH PARTITION FRAMING, PROVIDE LAYOUT MARKINGS OF PARTITIONS AND ASSOCIATED IN-WALL ELECTRICAL DEVICES ON SUBFLOOR FOR REVIEW BY ARCHITECT.
F. COORDINATE FURNITURE-RELATED ELECTRICAL LAYOUT WITH FURNITURE VENDOR.
G. WHERE HANDRAILS, GRAB BARS, CABINETS, WALL-MOUNTED DOOR STOPS, OR OTHER WALL-HUNG ITEMS ARE ATTACHED TO PARTITIONS, INSTALL BACKER PLATES [OR WOOD BLOCKING] ACCURATELY POSITIONED AND FIRMLY SECURED TO METAL STUDS, WHETHER OR NOT SUCH BACKER PLATES OR BLOCKING ARE INDICATED ON DRAWINGS.
H. WHERE NEW WORK ABUTS, ALIGNS OR ADJOINS EXISTING MATERIALS, MAKE SMOOTH AND EVEN TRANSITION AND ELIMINATE EVIDENCE OF PATCHING AND REFINISHING. FINISH NEW WORK TO MATCH ADJACENT UNDISTURBED SURFACES, UNLESS NOTED OTHERWISE.
I. CLOSE AND PATCH HOLES AND OPENINGS IN EXISTING FLOOR, WALL AND CEILING WHICH EXIST OR RESULT FROM DEMOLITION OR ALTERATION WORK TO MATCH ADJACENT UNDISTURBED SURFACES.
J. PRIOR TO CONCEALMENT OF FIRE RESISTIVE MATERIALS BY OTHER WORK, PATCH AND REPAIR AREAS OF REMOVED OR DAMAGED APPLIED FIREPROOFING. COMPLETE PATCHING AND REPAIR TO MAINTAIN EXISTING FIRE-RESISTANCE DESIGN IN ACCORDANCE WITH FIREPROOFING MANUFACTURER'S WRITTEN INSTRUCTIONS FOR CONDITIONS OF EXPOSURE AND INTENDED USE. COORDINATE TESTING AND INSPECTION OF ASSEMBLIES AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
K. PROVIDE FIRESTOPPING OF PENETRATIONS AND VOIDS THROUGH FIRE-RATED WALL, FLOOR AND PARTITION ASSEMBLIES [AND ROOF] INCLUDING EMPTY OPENINGS AND OPENINGS CONTAINING CABLES, PIPES, DUCTS, CONDUIT AND OTHER ELEMENTS.
L. AT SOUND-RATED PARTITION WALLS, PROVIDE CONTINUOUS BEAD OF ACOUSTICAL SEALANT AT AT JUNCTURE OF BOTH FACES OF RUNNERS OR PLATES WITH FLOOR AND CEILING CONSTRUCTION, AND WHEREVER GYPSUM BOARD ABUTS DISSIMILAR MATERIALS.
- AT OPENINGS AND CUTOUTS, FILL OPEN SPACES BETWEEN GYPSUM BOARD AND FIXTURES, CABINETS, DUCTS AND OTHER FLUSH OR PENETRATING ITEMS, WITH CONTINUOUS BEAD OF SEALANT.
- SEAL SIDES AND BACKS OF ELECTRICAL BOXES TO COMPLETELY CLOSE OFF OPENINGS AND JOINTS.

KEYNOTES - FLOOR PLAN

#	DESCRIPTION

HGA
420 North 5th Street, Suite 100
Minneapolis, Minnesota 55401
Telephone 612.758.4000

MILWAUKEE HOUSE OF CORRECTIONS ALTERNATE CARE FACILITY
8885 S. 68th STREET
FRANKLIN, WI 53132

NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS IS EDIT

HGA NO: 3099-007-00

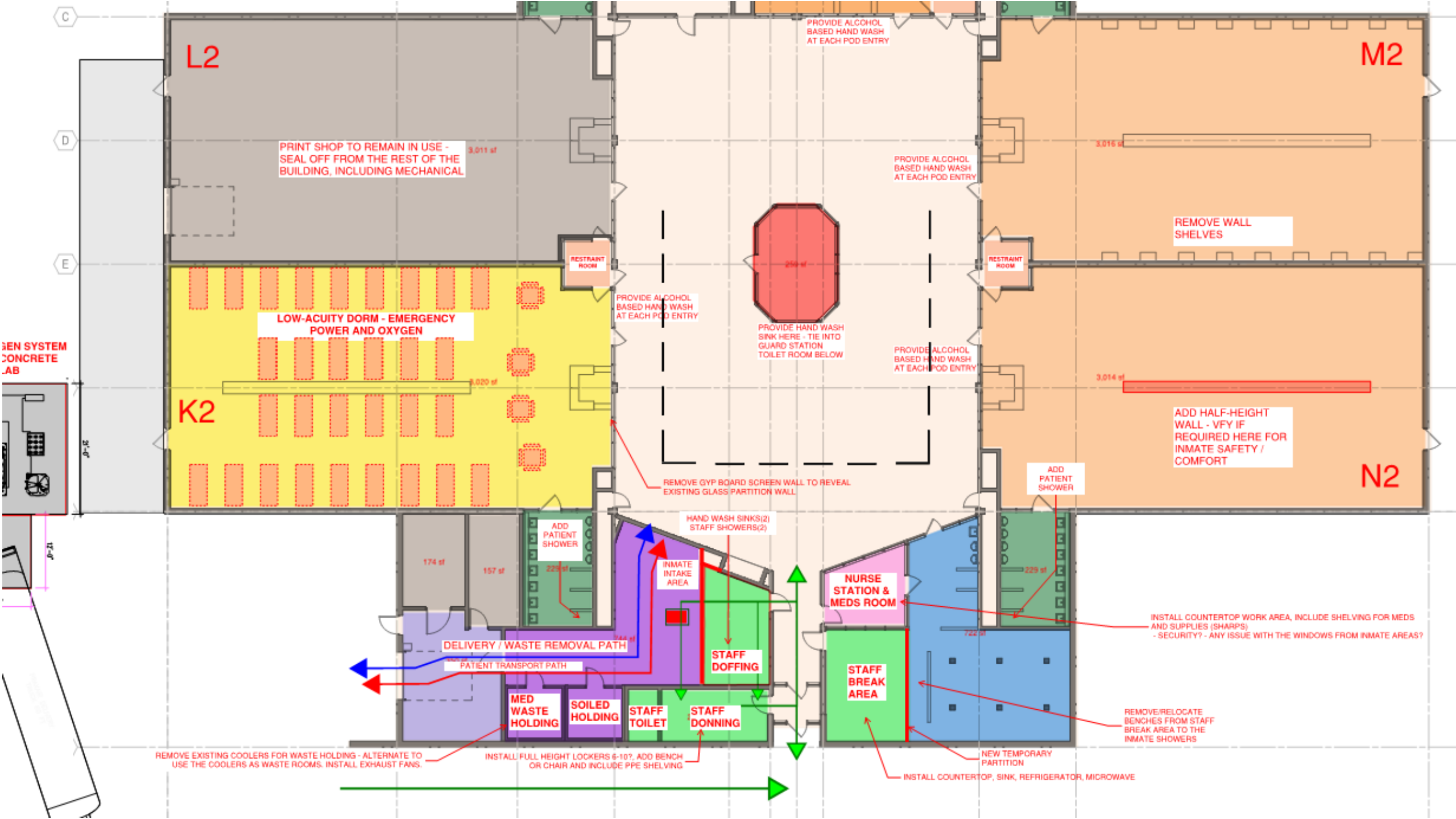
FLOOR PLAN LEVEL 01

DATE: May 3, 2020

DESIGN "FOR INFORMATION"

A201

DESIGN "FOR INFORMATION"


L2
M2
K2
N2
PRINT SHOP TO REMAIN IN USE - SEAL OFF FROM THE REST OF THE BUILDING, INCLUDING MECHANICAL
3,011 sf
PROVIDE ALCOHOL BASED HAND WASH AT EACH POD ENTRY
PROVIDE ALCOHOL BASED HAND WASH AT EACH POD ENTRY
PROVIDE ALCOHOL BASED HAND WASH AT EACH POD ENTRY
PROVIDE ALCOHOL BASED HAND WASH AT EACH POD ENTRY
REMOVE WALL SHELVES
3,016 sf
RESTRAINT ROOM
RESTRAINT ROOM
250 sf
PROVIDE HAND WASH SINK HERE - TIE INTO GUARD STATION TOILET ROOM BELOW
LOW-ACUITY DORM - EMERGENCY POWER AND OXYGEN
3,020 sf
3,014 sf
ADD HALF-HEIGHT WALL - VFY IF REQUIRED HERE FOR INMATE SAFETY / COMFORT
REMOVE GYP BOARD SCREEN WALL TO REVEAL EXISTING GLASS PARTITION WALL
ADD PATIENT SHOWER
ADD PATIENT SHOWER
HAND WASH SINKS(2) STAFF SHOWERS(2)
174 sf
157 sf
226 sf
INMATE INTAKE AREA
NURSE STATION & MEDS ROOM
229 sf
722 sf
INSTALL COUNTERTOP WORK AREA, INCLUDE SHELVING FOR MEDS AND SUPPLIES (SHARPS)
- SECURITY? - ANY ISSUE WITH THE WINDOWS FROM INMATE AREAS?
DELIVERY / WASTE REMOVAL PATH
PATIENT TRANSPORT PATH
STAFF DOFFING
STAFF BREAK AREA
MED WASTE HOLDING
SOILED HOLDING
STAFF TOILET
STAFF DONNING
REMOVE/RELOCATE BENCHES FROM STAFF BREAK AREA TO THE INMATE SHOWERS
REMOVE EXISTING COOLERS FOR WASTE HOLDING - ALTERNATE TO USE THE COOLERS AS WASTE ROOMS. INSTALL EXHAUST FANS.
INSTALL FULL HEIGHT LOCKERS 6-10?, ADD BENCH OR CHAIR AND INCLUDE PPE SHELVING
NEW TEMPORARY PARTITION
INSTALL COUNTERTOP, SINK, REFRIGERATOR, MICROWAVE
GEN SYSTEM
CONCRETE
LAB
C
D
E


HGA


HGA


OXYGEN
OXYGEN


60
108 84 70
98
20 37.7
HGA


GENERAC
INDUSTRIAL POWER
INMATE ENTRANCE
HGA


CENTURY FENCE
NO PARKING
NO SMOKING


HGA

Overall Keys to Success

- 1st 48 hours and with value decisions
- Coming in with a proven robust local team
- On site leadership from each partner
- Clear critical path for each day and shift to include design, procurement, decisions, close out and AHJ's + user
- Daily leadership meetings with follow-up
- Great team spirit and a high bar set each day
- Moments of pride
- Diversity of great talent by all partners on site
- Project controls management and position
- The right players at table from day one
- Total project life cycle management and care by team, selflessness

COVID-19 Rapid Response Project Delivery Case Studies

Q & A

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Project Delivery

an AIA Knowledge Community

AIA KnowledgeNet

https://network.aia.org/communities

The AIA **Project Delivery Knowledge Community** (PDKC) promotes the architect's leadership role in all project delivery methods by assembling and distributing knowledge and best practices for a variety of project delivery methods, e.g. design-build (DB), integrated project deliveries (IPD), and public-private partnerships (P3).

Upcoming Courses

November 2020

Live Course - Project Delivery in a Global Pandemic
When: Nov 12, 2020 from 4:00 PM to 5:30 PM (ET)
Community: Project Delivery

1.5 Hours Course = 1.5 LU/HSW

Live Course - COVID-19 Rapid Response Project Delivery
When: Nov 17, 2020 from 4:00 PM to 5:30 PM (ET)
Community: Project Delivery

1.5 Hours Course = 1.5 LU/HSW

Visit https://network.aia.org/projectdelivery for more information

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THANK YOU