



FACILITIES MANAGEMENT DEPARTMENT

Name: _____
Signature: _____
Date: _____
Department / Company: _____

Security Contact & Informative Overhead Page Codes

Security Manager: Christopher Conner

Emergencies: 909-580-4444

Dispatch / Non-Emergencies: 909-580-1111

(These numbers access Security in the most expedient manner)

In the event the following code systems are initiated or heard from the Public Address System or ARMC Personnel:

1. Code Red

This code is used in the event of a Fire, Smoke, or Smell of something burning.

Your response:

- IF THE FIRE HAS BEEN ANNOUNCED IN YOUR AREA, YOU MUST EVACUATE – Therefore:
- First, secure the area where you have been working (ensure there are no slips/trip hazards, clear hallways, etc.)
- *then* Evacuate
- If the Fire is *not* in your immediate area, then be alert for possible increase in activity in the area you are working.

2. Code Triage

This code is used in Disaster Situations

Your response:

- Secure the area where you have been working (ensure there are no slip/trip hazards, clear corridors, etc.)
- YOU MUST EVACUATE THE AREA by nearest evacuation route.

3. Code Grey

There is a Combative Person



Your response:

- Secure the area where you have been working (ensure there are no slip/trip hazards, clear corridors, etc.)
- Be alert to a possible increase in activity in the area where you are working.

4. Code Silver

There is a Weapon/Hostage situation.

Your response:

- Secure the area where you have been working (ensure there are no slip/trip hazards, clear corridors, etc.)
- Be alert to a possible increase in activity in the area where you are working.
- Shelter in place – move out of corridors and into a safe area.

5. Code Yellow

There is a Bomb Threat situation.

Your response:

- Secure the area where you have been working (ensure there are no slips/trip hazards, clear corridors, etc.)
- YOU MUST EVACUATE THE AREA by nearest evacuation route.

6. Code Green

Patient Elopement/Patient Escaped

Your response:

- Secure the area where you have been working (ensure there are no slips/trip hazards, clear corridors etc.)
- Be alert to a possible increase in activity in the area where you are working.

7. Code Pink

An infant is missing or known to be kidnapped.

Your response:

- Be alert for suspicious individuals.
- Report any suspicious activities immediately to your point of contact person or dial 44444 from a hospital phone.
- Note: all ARMC staff and on-site persons participate in this code

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8. Code Purple

Child missing or known to be kidnapped.

Your response:

- Be alert for suspicious individuals.
- Report any suspicious activities immediately to your point of contact person or dial 44444 from a hospital phone.
- Note: all ARMC staff and on-site persons participate in this code

9. Code Orange

HazMat Spill/Chemical Release

Your response:

- IF THE CODE HAS BEEN ANNOUNCED IN YOUR AREA, YOU MUST EVACUATE – Therefore:
- First, secure the area where you have been working (ensure there are no slips/trip hazards, clear hallways, etc.)
- *then* Evacuate
- If the HazMat/Chemical Spill is not in your immediate area, then be alert for possible increase in activity in the area you are working.

10. Code Blue

This code is used in cases of medical emergencies related to cardiac or respiratory arrest.

Your response:

- Be alert for a possible increase in activity within the area you are working.

I have read, acknowledged, and understand the above Security Contact & Informative Overhead Page Codes protocols, which will always be observed and abided by.

Name:

Signature:

Date:

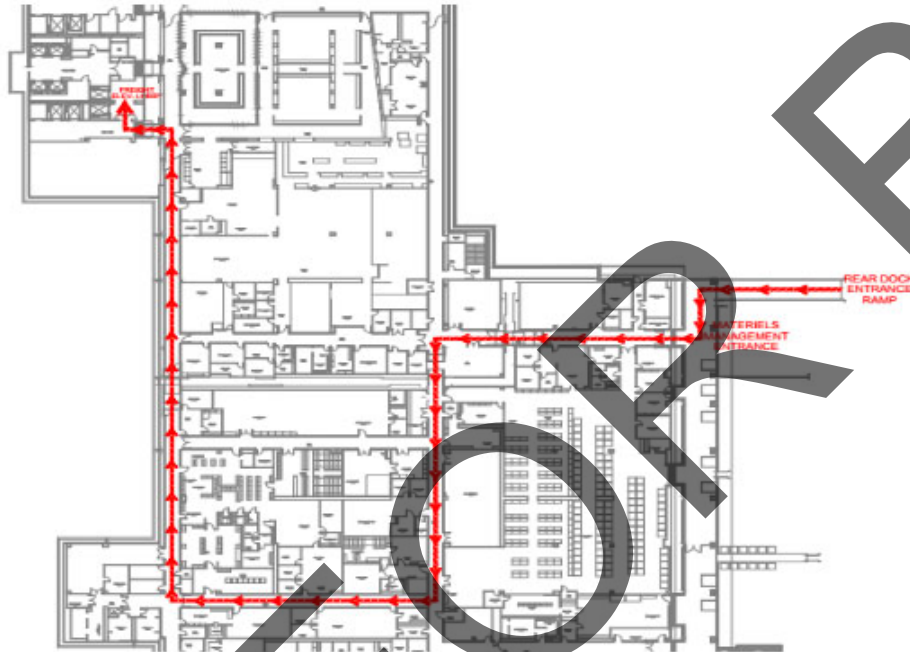
Department / Company:

Vendor & Visitor Parking & Path of Travel

A. Parking.



B. Path of Travel:



ATTACHMENT B

ARMC Pre-Construction Risk Assessment Form

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**Pre-Construction Risk Assessment (PCRA) Form****PART A – Project Information** (To Be Filled Out by Applicant)

Project Lead / Point of Contact: <input type="text"/>	Contractor / Vendor: <input type="text"/>
Project Name / CIP Number : <input type="text"/>	Location / Area of Work Activity: - Building: <input type="text"/> - Floor Level: <input type="text"/> - Room / Door Number: <input type="text"/>
Start & Completion Date: <input type="text"/>	Work Timeframe (Weekdays, Weekend, Time of Day): <input type="text"/>

PART B – Project Overview (To Be Filled Out by Applicant)

(Please outline in brief, terms of the project's scope, the general repair, work related task or activities and identify any significant challenges to consider) :

PART C – Required Special Permit & Notice Checklist

(To Be Filled Out by Applicant)

(CHECK ALL THAT APPLY TO TASK AND WORK AREA)



Impact Notices

- Patient Care & Secure Areas
- Utilities Shutoffs or Interruptions
- Noise, Vibration, Odors & Etc.
- Data & Telecommunication
- Restrooms & Related Amenities
- Waiting Areas & Lobby's
- Parking



Interim Life Safety Measures / Evaluation (ILSM)

- Blockage or Encroachment of Corridors & Pathways
- Impediment of Egress / Fire Exit Doors & Stairways
- Isolation of Fire Alarm & Suppression System Components
- Fire Watch.



Hot Work Permit

- Welding / Soldering
- Metal Grinding/ Cutting / Sparks
- Flammable Material / Combustible Liquids



ICRA Permit

- Epidemiology Infection Control Risk Assessment
- Infection Control Measures & Requirements
- Containment Barriers



Environmental Services

- Movement of Equipment or Furniture
- Wall Mounted Soap & Hand Sanitizer Dispensers
- Terminal Cleaning



Other Work Area Safety Measures or Potential Hazards

(If applicable, please describe below)

PART D – Infection Control Matrix (To Be Filled Out by Applicant)

(CHECK TYPE THAT APPLY):

<input type="checkbox"/>	TYPE A	Inspection and non-invasive activities. Includes but is not limited to: <ul style="list-style-type: none"> • Removal of ceiling tile for visual inspection-limited to 1 tile per 50 square feet with limited exposure time. • Limited building system maintenance (e.g., pneumatic tube station, HVAC system, fire suppression system, electrical and carpentry work to include painting without sanding) that does not create dust or debris. • Clean plumbing activity limited in nature.
<input type="checkbox"/>	TYPE B	Small-scale, short duration activities that create minimal dust and debris. Includes but is not limited to: <ul style="list-style-type: none"> • Work conducted above the ceiling (e.g., prolonged inspection or repair of firewalls and barriers, installation of conduit and/or cabling, and access to mechanical and/or electrical chase spaces). • Fan shutdown/startup. • Installation of electrical devices or new flooring that produces minimal dust and debris. The removal of drywall where minimal dust and debris is created. • Controlled sanding activities (e.g., wet or dry sanding) that produce minimal dust and debris
<input type="checkbox"/>	TYPE C	Large-scale, longer duration activities that create a moderate amount of dust and debris. Includes but is not limited to: <ul style="list-style-type: none"> • Removal of preexisting floor covering, walls, casework or other building components. • New drywall placement. • Renovation work in a single room. • Non-existing cable pathway or invasive electrical work above ceilings. • The removal of drywall where a moderate amount of dust and debris is created. • Dry sanding where a moderate amount of dust and debris is created. • Work creating significant vibration and/or noise. • Any activity that cannot be completed in a single work shift.
<input type="checkbox"/>	TYPE D	Major demolition and construction activities. Includes but is not limited to: <ul style="list-style-type: none"> • Removal or replacement of building system component(s). • Removal/installation of drywall partitions. • Invasive large-scale new building construction. • Renovation work in two or more rooms.
<input type="checkbox"/>	Not Applicable	

INFECTION CONTROL RISK GROUPS

(CHECK TYPE THAT APPLY):

<input type="checkbox"/>	RISK GROUP 1 Lowest Risk	1. Public hallways and gathering areas not on clinical units. 2. Office areas not on clinical units. 3. Breakrooms not on clinical units. 4. Bathrooms or locker rooms not on clinical units. 5. Mechanical rooms not on clinical units. 6. EVS closets not on clinical units
<input type="checkbox"/>	RISK GROUP 2 Medium Risk	1. Waiting areas. 2. Clinical engineering. 3. Materials management. 4. Sterile processing department - dirty side. 5. Kitchen, cafeteria, gift shop, coffee shop, and food kiosks.
<input type="checkbox"/>	RISK GROUP 3 Medium to High Risk	1. Patient care rooms and areas 2. All acute care units 3. Emergency department 4. Employee health 5. Pharmacy - general work zone 6. Medication rooms and clean utility rooms 7. Imaging suites: diagnostic imaging 8. Laboratory
<input type="checkbox"/>	RISK GROUP 4 High Risk	1. All transplant and intensive care units. 2. All oncology units. 3. OR theaters and restricted areas. 4. Procedural suites. 5. Pharmacy compounding. 6. Sterile processing department - clean side. 7. Transfusion services. 8. Dedicated isolation wards/units. 9. Imaging suites: invasive imaging.
<input type="checkbox"/>	Not Applicable	

CONSTRUCTION ACTIVITY/INFECTION MATRIX

(IF APPLICABLE, CIRCLE CLASSIFICATION THAT APPLIES):

RISK LEVEL	CONSTRUCTION ACTIVITY			
	TYPE "A"	TYPE "B"	TYPE "C"	TYPE "D"
Group 1	<input type="checkbox"/> I	<input type="checkbox"/> II	<input type="checkbox"/> II	<input type="checkbox"/> III/IV
Group 2	<input type="checkbox"/> I	<input type="checkbox"/> II	<input type="checkbox"/> III	<input type="checkbox"/> IV
Group 3	<input type="checkbox"/> I	<input type="checkbox"/> III	<input type="checkbox"/> III/IV	<input type="checkbox"/> IV
Group 4	<input type="checkbox"/> III	<input type="checkbox"/> III/IV	<input type="checkbox"/> III/IV	<input type="checkbox"/> IV

PART E – Impact Matrix Checklist (To Be Filled Out by Applicant)					
Department / Unit	Direct :	Adjacent :	Above :	Below :	Lateral :
Risk group (Per Part D)					
Dept. Point of Contact					
Impacted Controls	<input type="checkbox"/> Noise	<input type="checkbox"/> Noise	<input type="checkbox"/> Noise	<input type="checkbox"/> Noise	<input type="checkbox"/> Noise
	<input type="checkbox"/> Vibration	<input type="checkbox"/> Vibration	<input type="checkbox"/> Vibration	<input type="checkbox"/> Vibration	<input type="checkbox"/> Vibration
	<input type="checkbox"/> Dust	<input type="checkbox"/> Dust	<input type="checkbox"/> Dust	<input type="checkbox"/> Dust	<input type="checkbox"/> Dust
	<input type="checkbox"/> Ventilation	<input type="checkbox"/> Ventilation	<input type="checkbox"/> Ventilation	<input type="checkbox"/> Ventilation	<input type="checkbox"/> Ventilation
	<input type="checkbox"/> Humidity/ Pressurization	<input type="checkbox"/> Humidity/ Pressurization	<input type="checkbox"/> Humidity/ Pressurization	<input type="checkbox"/> Humidity/ Pressurization	<input type="checkbox"/> Humidity/ Pressurization
	<input type="checkbox"/> Odors	<input type="checkbox"/> Odors	<input type="checkbox"/> Odors	<input type="checkbox"/> Odors	<input type="checkbox"/> Odors
	<input type="checkbox"/> Parking	<input type="checkbox"/> Parking	<input type="checkbox"/> Parking	<input type="checkbox"/> Parking	<input type="checkbox"/> Parking
	<input type="checkbox"/> Interior Secure Area / Foot Traffic	<input type="checkbox"/> Interior Secure Area / Foot Traffic	<input type="checkbox"/> Interior Secure Area / Foot Traffic	<input type="checkbox"/> Interior Secure Area / Foot Traffic	<input type="checkbox"/> Interior Secure Area / Foot Traffic
	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Other	<input type="checkbox"/> Other	<input type="checkbox"/> Other
	Infrastructure & Systems Impacted:	<input type="checkbox"/> Plumbing	<input type="checkbox"/> Plumbing	<input type="checkbox"/> Plumbing	<input type="checkbox"/> Plumbing
<input type="checkbox"/> Mechanical		<input type="checkbox"/> Mechanical	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Mechanical
<input checked="" type="checkbox"/> Electrical		<input type="checkbox"/> Electrical	<input type="checkbox"/> Electrical	<input type="checkbox"/> Electrical	<input type="checkbox"/> Electrical
<input type="checkbox"/> Structural		<input type="checkbox"/> Structural	<input type="checkbox"/> Structural	<input type="checkbox"/> Structural	<input type="checkbox"/> Structural
<input type="checkbox"/> Steam		<input type="checkbox"/> Steam	<input type="checkbox"/> Steam	<input type="checkbox"/> Steam	<input type="checkbox"/> Steam
<input type="checkbox"/> Med Air		<input type="checkbox"/> Med Air	<input type="checkbox"/> Med Air	<input type="checkbox"/> Med Air	<input type="checkbox"/> Med Air
<input type="checkbox"/> Med Gas		<input type="checkbox"/> Med Gas	<input type="checkbox"/> Med Gas	<input type="checkbox"/> Med Gas	<input type="checkbox"/> Med Gas
<input type="checkbox"/> Fire Alarm / Suppression		<input type="checkbox"/> Fire Alarm / Suppression	<input type="checkbox"/> Fire Alarm / Suppression	<input type="checkbox"/> Fire Alarm / Suppression	<input type="checkbox"/> Fire Alarm / Suppression
<input type="checkbox"/> Pneumatic		<input type="checkbox"/> Pneumatic	<input type="checkbox"/> Pneumatic	<input type="checkbox"/> Pneumatic	<input type="checkbox"/> Pneumatic
<input type="checkbox"/> Data/Telecom		<input type="checkbox"/> Data/Telecom	<input type="checkbox"/> Data/Telecom	<input type="checkbox"/> Data/Telecom	<input type="checkbox"/> Data/Telecom
<input type="checkbox"/> Other		<input type="checkbox"/> Other	<input type="checkbox"/> Other	<input type="checkbox"/> Other	<input type="checkbox"/> Other

PART F - Review & Approval

(Mandatory Review or Approval Required by ARMC Facilities Management Staff)

Facilities Management Staff:	Approved	Signature	Date
Project Manager – Jose Morales	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Safety Technician – Shawn Shelton	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Safety Officer – Rob Hanley	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Facilities Manager – Jon Hall	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Central Plant Supervisor – Brian Mooney	<input type="checkbox"/> Yes <input type="checkbox"/> No		

(If Deemed Necessary, Deferred Review & Approval by ARMC Facilities Management Staff)

Maintenance Supervisor – Steve Smith	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Maintenance Supervisor – Cory Hall	<input type="checkbox"/> Yes <input type="checkbox"/> No		

ATTACHMENT C

ARMC Infection Control Risk Assessment Guidelines

NOT FOR BID



Infection Control Construction Permit -ICRA

Location of Construction:		Project Name:			
Project Coordinator:		Project Start Date:			
Contractor Performing Work:		Permit Expiration Date:			
ARMC Supervisor:		Telephone:			
Y	N	CONSTRUCTION ACTIVITY	Y	N	INFECTION CONTROL RISK GROUP
		Type A: Inspection, non-invasive activity			GROUP 1: Least Risk
		Type B: Small scale, short duration, moderate to high levels			GROUP 2: Medium Risk
		Type C: Activity generates moderate to high levels of dust, requires >1 work shift for completion			GROUP 3: Medium/High Risk
		TYPE D: Major duration and construction activities requiring consecutive work shifts			GROUP 4: Highest Risk
Is this work done in a patient Room? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, it must be Terminally Cleaned when job completed and signed off by IC Officer _____ Date: _____ INT: _____					
CLASS I	1. Execute work by methods to minimize raising dust from construction operations. 2. Immediately replace any ceiling tile displaced for visual inspection		3. Minor Demolition for Remodeling		
CLASS II	1. Provides active means to prevent air-borne dust from dispersing into atmosphere. 2. Water mist work surfaces to control dust while cutting. 3. Seal unused doors with duct tape. 4. Block and seal air vents. 5. Wipe surfaces with disinfectant.		6. Contain construction waste before transport in tightly covered containers. 7. Wet mop and/or vacuum with HEPA filtered vacuum before leaving work area. 8. Place dust mat at entrance and exit of work area. 9. Remove or isolate HVAC system in areas where work is being performed.		
CLASS III	1. Notify Infection Control 2. Isolate HVAC system in area where work is being done to prevent contamination of the duct system. 3. Complete all critical barriers or implement control cube method before construction begins. 4. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. 5. Do not remove barriers from work area until complete project is thoroughly cleaned by Env. Services Dept.		6. Vacuum work with HEPA filtered vacuums. 7. Wet mop with disinfectant. 8. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction. 9. Contain construction waste before transport in tightly covered containers. 10. Cover transport receptacles or carts. Tape covering. 11. Remove or isolate HVAC system in areas where work is being performed. 12. Place dust mat at entrance/exit of work area		
Date					
Initial					
CLASS IV	1. Notify Infection Control 2. Isolate HVAC system in area where work is being done to prevent contamination of the duct system. 3. Complete all critical barriers or implement control cube method before construction begins. 4. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. 5. Seal holes, pipes, conduits, and punctures appropriately. 6. Construct anteroom and require all personnel to pass through this room so they can be vacuumed using a HEPA vacuum cleaner before leaving work site or they can wear cloth or paper overalls that are removed each time they leave the work site. 7. All personnel entering work site are required to wear shoe covers.		8. Do not remove barriers from work area until completed project is thoroughly cleaned by the Environmental Service Dept. 9. Vacuum work area with HEPA filtered vacuums. 10. Wet mop with disinfectant. 11. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction. 12. Contain construction waste before transport in tightly covered containers. 13. Cover transport receptacles or carts. Tape covering. 14. Remove or isolate HVAC system in areas where work is being done. 15. Place dust mat at entrance/exit of work area		
Date					
Initial					
Additional Requirements:					
Date	Initials		12 Hour uninterrupted exchange required? Yes <input type="checkbox"/> No <input type="checkbox"/>		
Permit Request By:			Permit Auth. By:		
Date:			Date:		
			Exceptions/Additions to this permit are noted by attached memoranda.		



CONSTRUCTION ACTIVITY TYPES

TYPE A	Inspection and Non-Invasive Activities. Includes but is not limited to removal of ceiling tiles for visual inspection (limited to one (1) tile per fifty (50) square feet), painting (but not sanding) wall covering, electrical trim work, minor plumbing and activities that do not generate dust or require cutting of walls or access to ceilings other than for visual inspection.
TYPE B	Small-scale, short duration activities that create minimal dust, includes but not limited to installation of telephone and computer cables, access to chase spaces, cutting walls or ceiling where dust migration can be controlled.
TYPE C	Any work that generates a moderate to high level of dust or requires demolition or removal of any fixed building components or assemblies. Includes but is not limited to sanding of walls for painting or wall coverings; removing floor coverings, ceiling tiles and casework; new wall construction; minor ductwork or electrical work above ceilings; major cabling activities and any activity that cannot be completed within a single work shift.
TYPE D	Major demolition and construction projects. Includes but is not limited to activities that require consecutive work shifts, heavy demolition or removal of a complete ceiling system and new construction.

INFECTION CONTROL RISK GROUPS

RISK GROUP 1 Lowest Risk	RISK GROUP 2 Medium Risk	RISK GROUP 3 Medium to High Risk	RISK GROUP 4 High Risk
1. Office Areas (Admin, HR, Nursing Admin) 2. Other Buildings on Hospital Campus (Physical Plant, Material Service/Warehouse, Quality, Library, Training Center) 3. Other Buildings off Campus	1. Main Lobby 2. Patient Registration 5. MED/SURG 6. Nutrition and Food Services (including cafeteria)	1. Lab 2. Tele 3. Maternal/Child 4. Emergency Department 5. Radiology 6. Special Procedures	1. Pharmacy 2. Surgery 3. PACU 4. ASU 5. C-Section Suite 6. ICU 7. Sterile Processing 8. Angiography

CONSTRUCTION ACTIVITY/INFECTION MATRIX

Infection Control consultation is required when the construction activity and risk level indicate that Class III and Class IV control procedures are necessary.

RISK LEVEL	CONSTRUCTION ACTIVITY			
	TYPE "A"	TYPE "B"	TYPE "C"	TYPE "D"
Group 1	I	II	II	III/IV
Group 2	I	II	III	IV
Group 3	I	III	III/IV	IV
Group 4	III	III/IV	III/IV	IV

IC Forms-Revised 6/2018

	<p>Execute work by methods to minimize raising dust from construction operations.</p> <p>Immediately replace a ceiling tile displaced for visual inspection</p>	
CLASS II	<ol style="list-style-type: none"> 1 Provide active means to prevent airborne dust from dispersing into atmosphere. 2 Water mist work surfaces to control dust while cutting. 3 Seal unused doors with duct tape. 4 Block off and seal air vents. 5 Place dust mat at entrance and exit of work area 6 Remove or isolate HVAC system in areas where work is being performed. 	<ol style="list-style-type: none"> 1. Wipe work surfaces with disinfectant. 2. Contain construction waste before transport in tightly covered containers. 3. Wet mop and/or vacuum with HEPA filtered vacuum before leaving work area. 4. 4. Remove isolation of HVAC system in areas where work is being performed.
CLASS III	<ol style="list-style-type: none"> 1. Remove or Isolate HVAC system in area where work is being done to prevent contamination of duct system. 2. Complete all critical barriers i.e. sheetrock, plywood, plastic, to seal area from non-work area or implement control cube method (cart with plastic covering and sealed connection to work site with HEPA vacuum for vacuuming prior to exit) before construction begins. 3. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. 4. Contain construction waste before transport in tightly covered containers. 5. Cover transport receptacles or carts. Tape covering unless solid lid. 	<ol style="list-style-type: none"> 1. Do not remove barriers from work area until completed project is inspected by the owner's Safety Department and Infection Control Department and thoroughly cleaned by the owner's Environmental Services Department. 2. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction. 3. Vacuum work area with HEPA filtered vacuums. 4. Wet mop area with disinfectant. 5. Remove isolation of HVAC system in areas where work is being performed.
CLASS IV	<ol style="list-style-type: none"> 1. Isolate HVAC system in area where work is being done to prevent contamination of duct system. 2. Complete all critical barriers i.e. sheetrock, plywood, plastic, to seal area from non-work area or implement control cube method (cart with plastic covering and sealed connection to work site with HEPA vacuum for vacuuming prior to exit) before construction begins. 3. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. 4. Seal holes, pipes, conduits, and punctures appropriately. 5. Construct anteroom and require all personnel to pass through this room so they can be vacuumed using a HEPA vacuum cleaner before leaving work site or they can wear cloth or paper coveralls that are removed each time they leave the work site. 6. All personnel entering work site are required to wear shoe covers. Shoe covers must be changed each time the worker exits the work area. 7. Do not remove barriers from work area until completed project is inspected by the owner's Safety Department and Infection Control Department and thoroughly cleaned by the owner's Environmental Services Department. 	<ol style="list-style-type: none"> 1. Remove barrier material carefully to minimize spreading of dirt and debris associated with construction. 2. Contain construction waste before transport in tightly covered containers. 3. Cover transport receptacles or carts. Tape covering unless solid lid 4. Vacuum work area with HEPA filtered vacuums. 5. Wet mop area with disinfectant. 6. Remove isolation of HVAC system in areas where work is being performed.

ATTACHMENT D

Vendor/Contractor Credential Requirements

NOT FOR BID

VENDOR/CONTRACTOR CREDENTIAL REQUIREMENTS

Vendors/Contractors who need to conduct business onsite must comply with the following:

- Wear a photo identification card issued by company and;
- Register in RepTrax

Vendors will not be authorized access to any Arrowhead Regional Medical Center (ARMC) patient care area if you are not registered in Reptrax® as follows:

- Premier Membership (Nominal Fee) = All Patient Care Areas
- Base Membership (No Cost) = Non Patient Care Areas

ARMC views vendor management as a critical element in providing cost effective and safe care to our patients. Reptrax® ensures safety to all patients, vendors, and caregivers through a robust credentialing process that ensures ARMC policies and health precautions are accepted and up-to-date by all vendors.

All vendor representatives are required to register in the Reptrax® system at www.reptrax.com.

New vendors are encouraged to visit Reptrax® at www.reptrax.com and create an account before visiting. This will allow the review of the ARMC Policies and Procedures.

To contact Reptrax® directly about your account, please call (214) 222-7484, Prompt 1 or email at reptrax@deviwelectronics.com.

Once you have registered, each time you enter the campus you are required to check-in at Material Management.

ATTACHMENT E

Inspection Request Form

NOT FOR BID



INSPECTION REQUEST

Contractor: _____

Request #: _____

Sub-Contractor: _____

Date: _____

Project #: _____

HCAI #: _____

Date Inspection Required: _____

Re-Inspection ☐

Location: _____

Detailed Description:

Type of Inspection:

Demolition _____

Sitework _____

Soils Inspection _____

Rebar _____

Concrete _____

Shotcrete _____

Masonry _____

Structural Steel _____

Misc. Steel _____

Woods/Plastic _____

Casework _____

Therm/Moist Protection _____

Waterproofing _____

Roofing _____

Doors/Windows _____

Finishes _____

Framing _____

Drywall _____

Equipment _____

Elevators _____

Mechanical _____

Plumbing _____

Fire Sprinklers _____

Electrical _____

Fire/Life Safety _____

Medical Gas _____

Other _____

For Specialty Inspection:

Supplier _____

Patch Plant _____

Time _____

Mix Design # _____

Quantity _____

On-Site Time _____

WPS # _____

Shop Location _____

Submitted by: _____

Inspection Results:

Accepted ☐

Correct as noted/Proceed with work ☐

Rejected/Re-Inspection Required ☐

Reason for Rejection: _____

Inspected By: _____

Date: _____

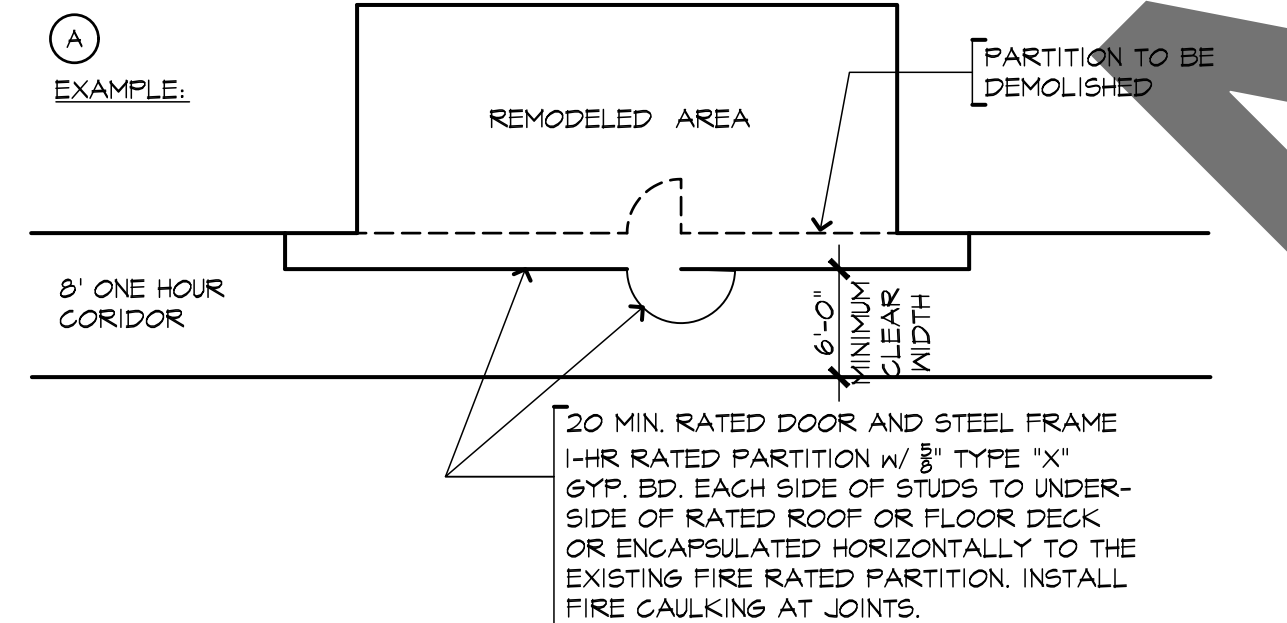
GENERAL NOTES

GENERAL REQUIREMENTS

- ALL DISTANCES, DATA AND EXISTING STRUCTURES AND UTILITIES ABOVE OR BELOW THE GROUND, WITHIN THE LIMITS OF THIS PROJECT SHALL BE CHECKED BY THE CONTRACTOR. IN CASE OF CONFLICT, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY IN ORDER THAT CLARIFICATION MAY BE MADE.
- PRIOR TO START OF WORK, THE CONTRACTOR SHALL CAREFULLY INSPECT AND VERIFY ALL CONDITIONS SHOWN ON THE CONTRACT DRAWINGS. IF WORK CAN NOT BE PERFORMED AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY. WORK PERFORMED AFTER SUCH DISCOVERY UNLESS AUTHORIZED BY THE ARCHITECT SHALL BE DONE AT THE CONTRACTOR'S RISK.
- DETAILS ARE INTENDED TO SHOW METHOD AND MANNER OF ACCOMPLISHING THE WORK. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT THE OVERALL DIMENSIONS OR CONDITIONS AND SHALL BE INCLUDED AS PART OF THE WORK.
- DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. SPECIFIC NOTES ON DETAILS APPLY TO SIMILAR CONDITIONS UNLESS SPECIFICALLY NOTED OTHERWISE.
- THE CONTRACTOR SHALL PROVIDE AND COORDINATE THE EXACT DIMENSIONS, SIZES AND POSITIONS OF ALL EQUIPMENT, MOUNTINGS, ATTACHMENTS AND CONDUIT RELATING TO THE WORK.
- THE CONTRACTOR SHALL PROVIDE AND COORDINATE THE EXACT DIMENSIONS, SIZES AND POSITIONS OF OPENINGS IN SLABS AND WALLS NECESSARY TO THE INSTALLATION OF THE WORK.
- THE CONTRACTOR SHALL CONNECT ALL SERVICES TO EXISTING UTILITIES. ALL UTILITIES SHALL BE CONNECTED TO PROVIDE ELECTRICITY, WATER, GAS, ETC. TO ALL EQUIPMENT SHOWN AS PART OF THIS CONTRACT. ALL EQUIPMENT SHALL FUNCTION CORRECTLY UPON COMPLETION OF THE CONTRACT.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY SERVICE CONNECTIONS.
- THE CONTRACTOR SHALL PROVIDE MOUNTING FLATES BEHIND ALL WALL MOUNTED ITEMS SUCH AS HANDRAILS, TOILET PARTITIONS, LIGHT FIXTURES, MEP EQUIPMENT, ETC.
- ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO PREVENT DIELECTRIC ACTION.
- LEGAL EXITS SHALL BE ACCESSIBLE AT ALL TIMES, WHERE AISLES MAY OCCUR LEADING TO EXITS, THEY SHALL HAVE A CLEAR WIDTH AS SHOWN ON THE DRAWINGS BUT IN NO CASE LESS THAN 3'-6" MINIMUM CLEARANCE.
- DISCREPANCIES BETWEEN PLANS AND SPECIFICATIONS, LARGE AND SMALL DETAILS OR VARIOUS SECTIONS OF THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION.
- ITEMS OF EXISTING WORK, INDICATED TO REMAIN UPON COMPLETION OF THE CONTRACT, BUT WHICH REQUIRE REMOVAL TO COMPLETE THE WORK, SHALL BE CAREFULLY REMOVED AND REPLACED UPON COMPLETION. THE REPLACED WORK SHALL MATCH ITS CONDITION AT THE START OF THE WORK UNLESS OTHERWISE REQUIRED BY THE DRAWINGS.
- CHANGES IN PLANS AND SPECIFICATIONS, OTHER THAN THOSE NECESSARY FOR CORRECTIONS MADE AFTER SUBMISSION FOR AGENCY APPROVAL SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING.
- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR CHANGE ORDER APPROVED BY HCAI, AS REQUIRED BY TITLE 24, CCR.
- A PROJECT INSPECTOR EMPLOYED BY THE OWNER SHALL PROVIDE CONTINUOUS INSPECTION OF THIS WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN PART 1, TITLE 24, CCR.
- THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO RECONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH CALIFORNIA CODE OF REGULATIONS TITLE 24. SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID CALIFORNIA CODE OF REGULATIONS TITLE 24, A CHANGE ORDER DETAILED AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY HCAI BEFORE PROCEEDING WITH THE WORK. CCR TITLE 24, PART 1, SECTION 7-125(b)(2).
- NOTIFY THE HCAI DISTRICT STRUCTURAL ENGINEER PRIOR TO THE START OF CONSTRUCTION WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN PART 1, TITLE 24, CCR.
- THE SIZES, LOCATION FOR MOUNTINGS AND ATTACHMENTS AND LOCATIONS OF UTILITY CONNECTIONS FOR EACH ITEM OF EQUIPMENT SHOWN ON THE DRAWINGS ARE FOR ILLUSTRATION ONLY. ALL CAN VARY FROM MANUFACTURER TO MANUFACTURER AND ARE DEPENDENT ON THE EXACT MANUFACTURERS MODEL FURNISHED. THE CONTRACTOR SHALL PROVIDE AND COORDINATE EXACT DIMENSIONS RELATING TO THE SIZE OF EACH ITEM OF EQUIPMENT, THE LOCATIONS OF ALL MOUNTINGS AND ATTACHMENTS FOR EACH ITEM OF EQUIPMENT AND FOR ALL UTILITY CONNECTIONS TO EACH ITEM OF EQUIPMENT.
- THE CONTRACTOR SHALL PROVIDE AND COORDINATE THE EXACT DIMENSIONS, SIZES AND POSITIONS OF ALL OPENINGS IN FLOOR AND WALL CONSTRUCTION NECESSARY FOR THE INSTALLATION OF THE WORK.

FIRE PROTECTION - LIFE SAFETY

- ALL FIRE RESISTIVE ASSEMBLIES FOR PROTECTION OF OPENINGS SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE.
 - ALL VOIDS AND PENETRATIONS IN CEILINGS OR WALLS, INCLUDING RECESSED LIGHTS, MECHANICAL DUCTS, ACCESS OPENINGS, ETC., SHALL BE RATED AS REQUIRED BY CODE.
 - PROVIDE FIRE EXTINGUISHERS AND CABINETS AND PORTABLE FIRE EXTINGUISHERS WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE BUILDING ON EACH FLOOR AND AT ALL MECHANICAL AND ELECTRICAL ROOMS AND AS DIRECTED BY THE FIRE MARSHAL. [SEE 906.3 SIZE & DISTRIBUTION]. TYPE OF FIRE EXTINGUISHER SHALL BE [2-A-10-B-C], TABLE 906.3(1).
 - THE FACILITY MUST MAINTAIN ITS REGULAR SERVICES, INCLUDING EXITS, DURING THE PERIOD THIS WORK IS IN PROGRESS.
 - FIRE RATED SEPARATIONS SHALL BE MAINTAINED DURING CONSTRUCTION AND DEMOLITION. PER CFC SECTION 3301 (MEET REQUIREMENTS OF HCAI CAN 9-3301).
- THE USE OF VISQUEEN OR SIMILAR TYPE OF MATERIAL AS A TEMPORARY CONSTRUCTION BARRIER WHERE A FIRE SEPARATION IS REQUIRED SHALL NOT BE PERMITTED. A TEMPORARY BARRIER SHALL MEET THE SAME FIRE RATINGS AS WOULD THE PERMANENT PARTITION.
- WHERE A TEMPORARY PARTITION IS PLACED ACROSS A CORRIDOR OR IN ANY WAY BLOCKS AN EXIT OR CREATES A DEAD END, APPROVED PLANS SHOWING THESE CONDITIONS SHALL BE APPROVED BY HCAI FIRE MARSHAL AND A REPRESENTATIVE OF THE LOCAL FIRE DEPARTMENT.



- DURING CONSTRUCTION, A FIRE WATCH WILL BE REQUIRED IF ANY REQUIRED FIRE RATED SEPARATOR IS NOT IN FULL COMPLIANCE WITH THE GOVERNING LOCAL AND STATE REGULATIONS.
- INTERIOR WALL AND CEILING FINISH MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84 OR UL 723. SUCH INTERIOR FINISH MATERIALS SHALL BE GROUPED IN THE FOLLOWING CLASSES IN ACCORDANCE WITH THEIR FLAME SPREAD AND SMOKE-DEVELOPED INDEXES. PER CFC SECTION 803.1.2.
- | | | |
|----------|-----------------------------|------------------------------|
| CLASS A: | FLAME SPREAD INDEX: 0-25; | SMOKE DEVELOPED INDEX 0-450. |
| CLASS B: | FLAME SPREAD INDEX: 26-75; | SMOKE DEVELOPED INDEX 0-450 |
| CLASS C: | FLAME SPREAD INDEX: 76-200; | SMOKE DEVELOPED INDEX 0-450 |

FIRE SAFETY DURING CONSTRUCTION, ALTERATION AND DEMOLITION FOR NEW CONSTRUCTION AND ADDITIONS

- FIRE DEPARTMENT ACCESS ROADS SHALL BE ESTABLISHED AND MAINTAINED.
 - FIRE EXTINGUISHERS SHALL BE PROVIDED FOR BUILDINGS UNDER CONSTRUCTION AS REQUIRED BY THE HCAI FIRE MARSHAL AND THE LOCAL FIRE AUTHORITY.
 - COMBUSTIBLE DEBRIS SHALL NOT BE ALLOWED TO ACCUMULATE WITHIN THE BUILDING.
 - ACCESS TO BUILDINGS FOR THE PURPOSE OF FIRE FIGHTING SHALL BE PROVIDED. CONSTRUCTION MATERIAL WILL NOT BLOCK ACCESS TO BUILDINGS, HYDRANTS OR FIRE APPLIANCES.
 - CUTTING AND WELDING OPERATIONS SHALL BE IN ACCORDANCE WITH THE GENERAL SAFETY RULES OF CFC SECTION 1056.11, 33-46, 3301.1 OF THE FIRE CODE.
 - EXISTING FIRE PROTECTION SYSTEMS SHALL BE MAINTAINED OPERATIONAL AT ALL TIMES DURING ALTERATIONS AND CONSTRUCTION.
 - WHEN TEMPORARY CONSTRUCTION BARRIERS ARE NECESSARY, TEMPORARY EXITING SHALL BE APPROVED BY THE HCAI FIRE MARSHAL AND THE LOCAL FIRE AUTHORITY. SEE DIAGRAM (A) NOTE 27.
 - EXISTING FIRE-RESISTIVE ASSEMBLIES AND CONSTRUCTION SHALL BE MAINTAINED.
 - PLASTIC FILM WHEN USED FOR DUST PROTECTION, SHALL BE FLAME RESISTANT.
 - SAFETY PRECAUTIONS INCLUDING FIRE DEPARTMENT ACCESS, WATER SUPPLY, NUMBER AND LOCATIONS OF HYDRANTS AND FIRE EXTINGUISHERS SHALL BE APPROVED BY THE HCAI FIRE MARSHAL AND THE LOCAL FIRE AUTHORITY.
 - FIRE PROTECTION OF STRUCTURAL MEMBERS SHALL BE REPAIRED/REPLACED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE.
 - FIRE SAFETY DURING WELDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA FIRE CODE.
- REPAIR AND WELDING PROCEDURES SHALL BE REVIEWED AND APPROVED BY THE HCAI FIRE MARSHAL AND LOCAL FIRE AUTHORITY HAVING JURISDICTION IN ACCORDANCE WITH CALIFORNIA FIRE CODE.
- SUCH REVIEW SHALL INCLUDE BUT NOT NECESSARILY BE LIMITED TO:
- METHOD AND LOCATION OF CYLINDER STORAGE
 - USE AND LOCATION OF ELECTRICAL GENERATORS AND ASSOCIATED FUEL SUPPLY
 - PROVISION OF FRESH AIR SUPPLY AND EXHAUST SYSTEMS
 - PROVISION OF NONCOMBUSTIBLE SHIELDS
 - FIRE WATCH PROCEDURES
 - SCHEDULING OF WORK PROCEDURES FOR NOTIFYING FIRE DEPARTMENT OF WHERE AND WHEN WELDING IS SCHEDULED.
- FIRE SPRINKLER, STANDPIPE AND FIRE ALARM SYSTEMS SHALL BE MAINTAINED OPERATIONAL AT ALL TIMES. WHEN IT IS NECESSARY TO SHUT DOWN A SYSTEM OR A PORTION OF A SYSTEM, A FIRE WATCH SHALL BE PROVIDED PER THE CALIFORNIA FIRE CODE.
 - THROUGH PENETRATION FIRE STOP SYSTEM: PENETRATION THROUGH FIRE-RATED FLOORS AND WALLS SHALL BE PROVIDED IN ACCORDANCE WITH CFC SECTIONS 714.4 SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE PROVIDED FOR REVIEW BY INSPECTION AUTHORITIES. SUBSTITUTIONS OF OR REVISIONS OR ADDITIONS TO APPROVED SYSTEMS SHALL BE SUBMITTED TO THE INSPECTOR OF RECORD AND THE HCAI FIRE MARSHAL FOR FIELD REVIEW AND APPROVAL.
 - ALL WOOD USED FOR BLOCKING, NAILERS AND/OR FRAMING USED FOR PERMANENT CONSTRUCTION SHALL BE FIRE RETARDANT PRESSURE TREATED AND SHALL BEAR AN APPROVED INSPECTION AGENCY LABEL.

NOISE AND DUST CONTROL

- THE HOSPITAL IS OPEN 24 HOURS A DAY AND SHALL BE KEPT IN OPERATION THROUGHOUT THE CONSTRUCTION PERIOD. ANY WORK THAT WILL DISRUPT THE MEDICAL OPERATIONS SHALL BE COORDINATED WITH OWNER THROUGH THE OWNER REPRESENTATIVE. NOISY WORK, ACTIVITIES CAUSING VIBRATION AND/OR SIMILAR DISRUPTED ACTIONS SHALL BE SCHEDULED AT TIMES ACCEPTABLE TO THE OWNER.
- EXERCISE CAUTION TO PREVENT GENERATION OF UNNECESSARY NOISE LEVELS TO MINIMUM POSSIBLE. DO NOT EXCEED CAL/OSHA STANDARDS AT ANY TIME. DISCONTINUE NOISE PRODUCING OPERATIONS, WHEN REQUESTED BY THE OWNER AND RESCHEDULE AT A MUTUALLY ACCEPTABLE TIME.
- DO NOT USE IMPACT TOOLS, SUCH AS JACK HAMMERS, INSIDE THE BUILDING WHEN IT IS OPENED TO THE PUBLIC.
- MOUNT ROLLING EQUIPMENT ON PNEUMATIC TIRES.
- EQUIP INTERNAL COMBUSTION ENGINES WITH SUITABLE MUFFLERS. DO NOT USE INTERNAL COMBUSTION ENGINES IN ENCLOSED SPACES, INCLUDING THE BUILDING, WITHOUT THE OWNER'S WRITTEN APPROVAL.
- ALL DUST, NOISE AND ODORS SHALL BE CONTROLLED PER OWNER'S REQUIREMENTS. ANY WORK THAT WILL DISRUPT THE MEDICAL OPERATIONS SHALL BE COORDINATED WITH OWNER THROUGH THE OWNER REPRESENTATIVE.
- THE PROJECT AREA SHALL BE ISOLATED FROM ADJACENT OCCUPIED SPACES DURING CONSTRUCTION USING BARRIERS, AIR DISTRIBUTION AND MATERIAL HANDLING.
- BARRIERS SHALL BE TIGHTLY SEALED WITH TAPE FROM WALL, FLOOR TO STRUCTURE ABOVE OR ACoustICAL CEILING WHERE SUSPENDED CEILINGS WILL NOT BE DISTURBED.
- THE ARCHITECT ASSUMES NO RESPONSIBILITY RELATING TO ANY HAZARDOUS OR TOXIC MATERIALS, INCLUDING ASBESTOS, AND ASSUMES NO RESPONSIBILITY FOR ITS EXISTENCE OR REMOVAL. THE OWNER SHALL TAKE ACTION FOR DIRECTLY CONTACTING WITH A CONSULTANT OR SPECIALIST FOR SUCH, LICENSED BY THE STATE OF CALIFORNIA, SHOULD THOSE SERVICES BE REQUIRED ON THE PROJECT.
- NO PRODUCTS CONTAINING ASBESTOS IN ANY FORM SHALL BE USED ON ANY PART OF THE WORK.

INFECTION CONTROL REQUIREMENTS

- INFECTION CONTROL IS CRITICAL IN ALL AREAS OF ALL FACILITIES. CONSTRUCTION ACTIVITIES CAUSING DISTURBANCE OF EXISTING DUST, OR CREATING NEW DUST, MUST BE CONDUCTED IN TIGHT ENCLOSURES CUTTING OFF ANY FLOW OF PARTICLES INTO PATIENT AREAS.
- THE HOSPITAL REQUIRES THAT ANY SUBCONTRACTOR, MATERIAL SUPPLIER, VENDOR, EMPLOYEE, OR AGENT BE BOUND BY THESE SAME REQUIREMENTS, BEFORE ANY CONSTRUCTION ON SITE BEGINS. THE CONTRACTOR'S ON-SITE MANAGEMENT TEAM SHALL ATTEND A MANDATORY MEETING HELD BY THE HOSPITAL'S REPRESENTATIVES, FOR INSTRUCTION ON PRECAUTIONS TO BE TAKEN.
- THE CONSTRUCTION SITE SHALL BE MAINTAINED UNDER NEGATIVE PRESSURE AT ALL TIMES AND A GAUGE SCALE AT THE BARRICADE ENTRANCE SHALL READ 0.01 INCH WG. HEPA EQUIPPED AIR FILTRATION

- MACHINES SHALL BE CONNECTED TO EMERGENCY POWER IF AVAILABLE, AND SHALL RUN CONTINUOUSLY FOR THE DURATION OF THE PROJECT, THE AIR FILTRATION (NEGATIVE PRESSURE) EQUIPMENT SHALL BE EXHAUSTED TO THE EXTERIOR OF THE BUILDING WHENEVER POSSIBLE AND ONLY AFTER ALL OPTIONS HAVE BEEN CONSIDERED OF EXHAUSTING TO THE OUTSIDE SHALL THERE BE THE REGULATION OF THE HEPA FILTRATED AIR WITHIN THE INTERIOR OF THE SPACE.
- THE HOSPITAL'S PLANT MANAGER, SAFETY OFFICER, INFECTION CONTROL NURSE, FACILITIES DEPARTMENT, OR PLANT MANAGER'S DESIGNEE MAY MODIFY PERFORMANCE REQUIREMENTS FOR CERTAIN ACTIVITIES. FACILITIES, ENGINEERING AND INFECTION CONTROL MUST REVIEW ANY MODIFICATIONS MADE BY THE CONTRACTOR. ANY MODIFICATIONS MADE BY THE CONTRACTOR DOES NOT RELIEVE THE CONTRACTOR OF COMPLIANCE WITH PROPER INFECTION CONTROL PROCEDURES.
 - THE CONTRACTOR WILL SUBMIT A WRITTEN REPORT OF INFECTION CONTROL PROCEDURES PRIOR TO STARTING ANY WORK. THIS REPORT WILL INCLUDE THE LOCATION AND DETAILS OF BARRIERS, AND THE MEANS IN WHICH THEY PLAN TO OBTAIN THE NEGATIVE PRESSURIZATION.
 - THE CONTRACTOR WILL SUBMIT PRODUCT DATA FOR PRODUCTS USED IN INFECTION CONTROL PROGRAM. ONLY PRODUCTS APPROVED BY THE HOSPITAL'S INFECTION CONTROL COMMITTEE SHALL BE USED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE MSDS SHEETS ON ALL PRODUCTS USED. COPIES OF MSDS MUST BE PROVIDED TO THE SAFETY OFFICER.
 - THE HOSPITAL'S INFECTION CONTROL DEPARTMENT IN COLLABORATION WITH ENGINEERING DEPARTMENT AND SAFETY OFFICER WILL MONITOR INDOOR AIR QUALITY (PARTICULATE AND BIOLOGICALS) IN THE VICINITY OF CONSTRUCTION WORK AT THE BEGINNING, END, AND/OR AS NEEDED. PROJECTS WILL BE EVALUATED TO DETERMINE THE NEED TO CONDUCT INDOOR AIR SAMPLING. WHENEVER SAFE LEVELS ARE EXCEEDED, THE CONTRACTOR WILL BE NOTIFIED IMMEDIATELY FOR CORRECTIVE ACTIONS.
 - AN INFECTION CONTROL PERMIT IS REQUIRED FOR THIS PROJECT. THE INFECTION CONTROL CONSTRUCTION PERMIT FORM WILL BE OBTAINED FROM THE HOSPITAL'S INFECTION CONTROL DEPARTMENT AND/OR ENGINEERING DEPARTMENT AND COMPLETED BY THE CONSTRUCTION COMPANY, ARVC INFECTION CONTROL, AND OR DESIGNER MUST SIGN THE COMPLETED PERMIT PRIOR TO BEGINNING ANY DEMOLITION, RENOVATION OR CONSTRUCTION WORK. THE PERMIT SHALL BE DISPLAYED AT ENTRANCE TO WORK AREA DURING ENTIRE CONSTRUCTION PERIOD.
 - COMPLETE ALL CRITICAL BARRIERS OR IMPLEMENT CONTROL QUEUE METHOD BEFORE CONSTRUCTION BEGINS.
 - SEAL HOLES, PIPES, CONDUITS, AND FRACTURES APPROPRIATELY.
 - VACUUM WORK AREA WITH HEPA FILTERED VACUUMS.
 - WET MOP AREA WITH DISINFECTANT (QUATERNARY AMMONIUM).
 - REMOVE BARRIER MATERIAL CAREFULLY TO MINIMIZE SPREADING OF DIRT AND DEBRIS ASSOCIATED WITH CONSTRUCTION.
 - CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS.
 - COVER TRANSPORT RECEPTACLE OR CARTS. Wipe DOWN CART PRIOR TO LEAVING THE CONSTRUCTION AREA.

FIRE PROTECTION

- THROUGH-PENETRATIONS AND MEMBRANE PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM OR MEMBRANE PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1478, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER OR AS OTHERWISE PERMITTED BY 2019 CFC, SECTION 714. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS AND MEMBRANE PENETRATIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION DETAILS FOR LISTED SYSTEMS. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS, MEMBRANE PENETRATION PROTECTION AND OTHER PERMITTED MEANS AND METHODS OF PENETRATION PROTECTION SHALL BE SUBMITTED TO OSHPD FIELD FIRE MARSHAL FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. PER 2019 C.F.C. SECTIONS 107.12 AND 714.1.



GENERAL CONSTRUCTION NOTES

- PRIOR TO CONSTRUCTION STARTING HCAI FIELD FIRE MARSHAL AND LOCAL FIRE AUTHORITY SHALL REVIEW AND APPROVE THE MEANS OF EGRESS AND HOW IT WILL BE MAINTAINED DURING CONSTRUCTION IN THE EXIT ACCESS CORRIDOR. PER 2019 C.F.C. SECTION 331.2 AND CAN 9-3301.
- DEMOLITION AND RECONSTRUCTION WILL OCCUR WITHIN ONE SINGLE 8-HOUR SHIFT, SUBJECT TO THE PRIOR REVIEW AND APPROVAL OF THIS APPROACH BY THE HCAI FIELD FIRE MARSHAL. WORK MAY NOT PROCEED UNTIL THAT APPROVAL HAS BEEN OBTAINED. IN THE EVENT THE WORK CANNOT BE COMPLETED IN THAT SINGLE SHIFT, A RATED TEMPORARY BARRIER OF THE SAME FIRE-RESISTANCE RATING OF THE WALL SHALL BE PROVIDED. PER 2019 C.F.C. SECTION 703.1 AND CAN 9-3301.
- WHERE A REQUIRED FIRE PROTECTION SYSTEM IS OUT OF SERVICE THE LOCAL FIRE JURISDICTION AND HCAI SHALL BE NOTIFIED. A FIRE WATCH SHALL BE PROVIDED UNTIL THE SYSTEM IS OPERABLE. WHEN A FIRE WATCH IS REQUIRED PERSONNEL SHALL BE PROVIDED WITH AN APPROVED MEANS FOR NOTIFYING THE FIRE DEPARTMENT AND THE ONLY DUTY OF THE FIRE WATCH PERSONNEL IS TO WATCH FOR THE OCCURRENCE OF FIRE. PER 2019 C.F.C. SECTIONS 901.7 & 3304.5 AND CAN 9-1404.5.

1910A.5 TESTS FOR POST-INSTALLED ANCHORS IN CONCRETE. WHEN POST-INSTALLED ANCHORS ARE USED IN LIEU OF CAST-IN PLACE BOLTS, THE INSTALLATION VERIFICATION TEST LOADS, FREQUENCY, AND ACCEPTANCE CRITERIA SHALL BE IN ACCORDANCE WITH THIS SECTION.

1910A.5.1 GENERAL. TEST LOADS OR TORQUES AND ACCEPTANCE CRITERIA SHALL BE SHOWN ON THE CONSTRUCTION DOCUMENTS.

IF ANY ANCHOR FAILS TESTING, ALL ANCHORS OF THE SAME TYPE SHALL BE TESTED, WHICH ARE INSTALLED BY THE SAME TRADE, NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST FREQUENCY.

1910A.5.2 TESTING PROCEDURE. TEST PROCEDURE SHALL BE AS PERMITTED BY AN APPROVED TEST REPORT USING CRITERIA ADOPTED IN THIS CODE. ALL POST-INSTALLED ANCHORS SHALL BE TENSIONED TESTED. EXCEPTION: TORQUE CONTROLLED POST-INSTALLED ANCHORS SHALL BE PERMITTED TO BE TESTED USING TORQUE BASED ON APPROVED TEST REPORT USING CRITERIA ADOPTED IN THIS CODE.

EXCEPTION: TORQUE CONTROLLED POST-INSTALLED ANCHORS AND SCREW TYPE ANCHORS SHALL BE PERMITTED TO BE TESTED USING TORQUE BASED ON AN APPROVED TEST REPORT USING CRITERIA ADOPTED IN THIS CODE. ALTERNATIVELY, MANUFACTURER'S RECOMMENDATION FOR TESTING MAY BE APPROVED BY THE ENFORCEMENT AGENCY, BASED ON AN APPROVED TEST REPORT USING CRITERIA ADOPTED IN THIS CODE.

1910A.5.3 TEST FREQUENCY. WHEN POST-INSTALLED ANCHORS ARE USED FOR SILL PLATE BOLTING APPLICATIONS, 10 PERCENT OF THE ANCHORS SHALL BE TESTED.

WHEN POST-INSTALLED ANCHORS ARE USED FOR OTHER STRUCTURAL APPLICATIONS, ALL SUCH ANCHORS SHALL BE TESTED.

WHEN POST-INSTALLED ANCHORS ARE USED FOR NONSTRUCTURAL APPLICATIONS SUCH AS EQUIPMENT ANCHORAGE, 50 PERCENT OR ALTERNATE BOLTS IN A GROUP, INCLUDING AT LEAST ONE-HALF THE ANCHORS IN EACH GROUP, SHALL BE TESTED.

THE TESTING OF THE POST-INSTALLED ANCHORS SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY.

EXCEPTIONS:

- UNDERCUT ANCHORS THAT ALLOW VISUAL CONFIRMATION OF FULL SET SHALL NOT REQUIRE TESTING.
- WHERE THE FACTORED DESIGN TENSION ON ANCHORS IS LESS THAN 100 LBS AND THOSE ANCHORS ARE CLEARLY NOTED ON THE APPROVED CONSTRUCTION DOCUMENTS, ONLY 10 PERCENT OF THOSE ANCHORS SHALL BE TESTED.
- WHERE ADHESIVE ANCHOR SYSTEMS ARE USED TO INSTALL REINFORCING DOWEL BARS IN HARDENED CONCRETE, ONLY 25 PERCENT OF THE DOWELS SHALL BE TESTED IF ALL OF THE FOLLOWING CONDITIONS ARE MET:
 - THE DOWELS ARE USED EXCLUSIVELY TO TRANSMIT SHEAR FORCES ACROSS JOINTS BETWEEN EXISTING AND NEW CONCRETE.
 - THE NUMBER OF DOWELS IN ANY ONE MEMBER EQUALS OR EXCEEDS 12.
 - THE DOWELS ARE UNIFORMLY DISTRIBUTED ACROSS SEISMIC FORCE RESISTING MEMBERS (SUCH AS SHEAR WALLS, COLLECTORS AND DIAPHRAGMS). ANCHORS TO BE TESTED SHALL BE SELECTED AT RANDOM BY THE SPECIAL INSPECTOR/INSPECTOR OF RECORD (IOR).
 - TESTING OF SHEAR DOWELS ACROSS COLD JOINTS IN SLABS ON GRADE, WHERE THE SLAB IS NOT PART OF THE LATERAL FORCE-RESISTING SYSTEM SHALL NOT BE REQUIRED.
 - TESTING IS NOT REQUIRED FOR POWER ACTUATED FASTENERS USED TO ATTACH TRACKS OF INTERIOR NON-SHEAR WALL PARTITIONS FOR SHEAR ONLY, WHERE THERE ARE AT LEAST THREE FASTENERS PER SEGMENT OF TRACK.

1910A.5.4 TEST LOADS. REQUIRED TEST LOADS SHALL BE DETERMINED BY ONE OF THE FOLLOWING METHODS:

- TWICE THE MAXIMUM ALLOWABLE TENSION LOAD OR ONE AND A QUARTER (1¼) TIMES THE MAXIMUM DESIGN STRENGTH OF ANCHORS AS PROVIDED IN AN APPROVED EVALUATION REPORT USING CRITERIA ADOPTED IN THIS CODE OR DETERMINED IN ACCORDANCE WITH CHAPTER 17 OF ACI 318.

TENSION TEST LOAD NEED NOT EXCEED 80 PERCENT OF THE NOMINAL YIELD STRENGTH OF THE ANCHOR ELEMENT ($=0.8A_s f_y$).

- THE MANUFACTURER'S RECOMMENDED INSTALLATION TORQUE BASED ON APPROVED TEST REPORT USING CRITERIA ADOPTED IN THIS CODE.

1910A.5.5 TEST ACCEPTANCE CRITERIA. ACCEPTANCE CRITERIA FOR POST-INSTALLED ANCHORS SHALL BE BASED ON APPROVED TEST REPORT USING CRITERIA ADOPTED IN THIS CODE. FIELD TEST SHALL SATISFY FOLLOWING MINIMUM REQUIREMENTS.

- HYDRAULIC RAM METHOD:

ANCHORS TESTED WITH A HYDRAULIC JACK OR SPRING LOADED DEVICES SHALL MAINTAIN THE TEST LOAD FOR A MINIMUM OF 15 SECONDS AND SHALL EXHIBIT NO DISCERNIBLE MOVEMENT DURING THE TENSION TEST, E.G., AS EVIDENCED BY LOOSENING OF THE WASHER UNDER THE NUT.

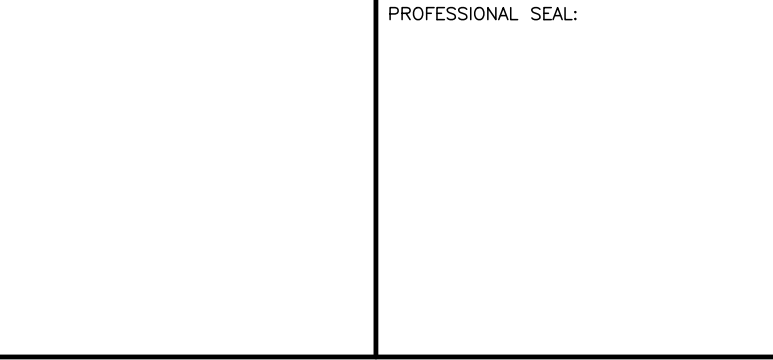
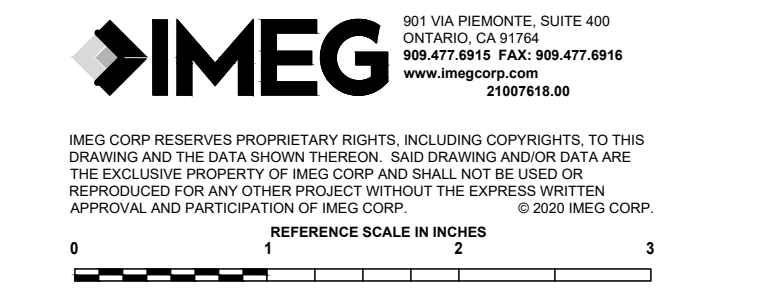
FOR ADHESIVE ANCHORS, WHERE OTHER THAN BOND IS BEING TESTED, THE TESTING APPARATUS SUPPORT SHALL NOT BE LOCATED WITHIN 1.5 TIMES THE ANCHOR'S EMBEDMENT DEPTH TO AVOID RESTRICTING THE CONCRETE SHEAR CONE TYPE FAILURE MECHANISM FROM OCCURRING.

- TORQUE WRENCH METHOD:

TORQUE-CONTROLLED POST-INSTALLED ANCHORS TESTED WITH A CALIBRATED TORQUE WRENCH MUST ATTAIN THE SPECIFIED TORQUE WITHIN 1/2 TURN OF THE NUT OR ONE QUARTER (1/4) TURN OF THE NUT FOR A 3/8 INCH SLEEVE ANCHOR ONLY.

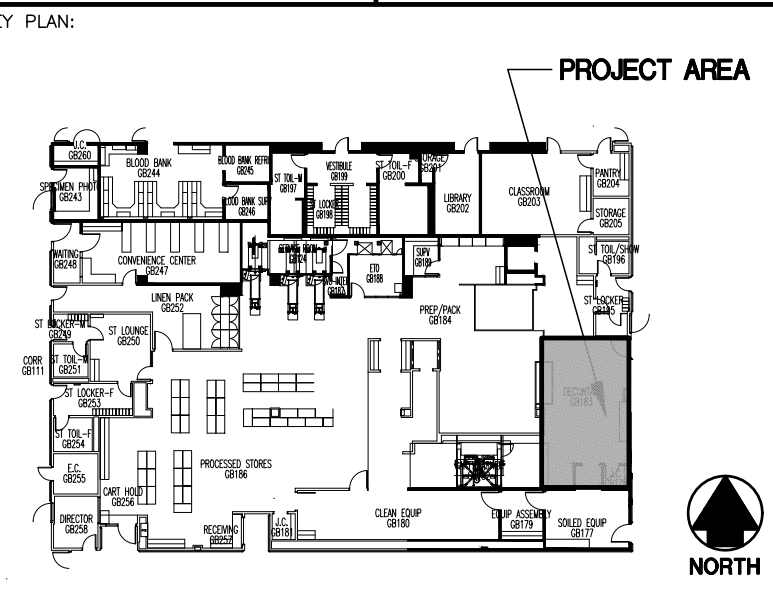
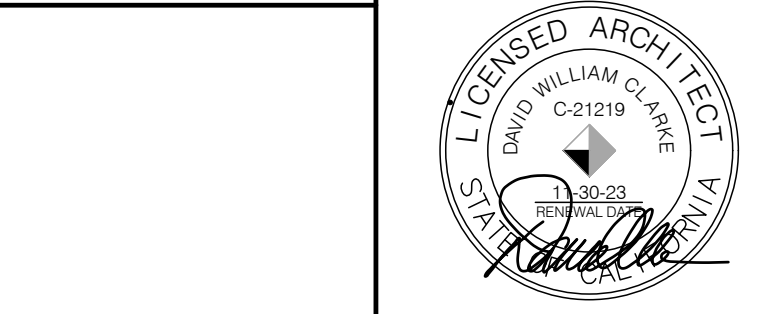
SCREW-TYPE ANCHORS TESTED WITH A CALIBRATED TORQUE WITHIN ONE-QUARTER (1/4) TURN OF THE SCREW AFTER INITIAL SEATING OF THE SCREW HEAD.

PROJECT TITLE: **SONIC IRRIGATION REPLACEMENTS**
FOR THE
ARROWHEAD REGIONAL MEDICAL CENTER
400 N. PEPPER AVE., COLTON, CA. 92324
WBSE #: 10.10.1066
CIP #: 21-065
CAFM #: COL003



Project No. 3021028

DAVID WILLIAM CLARKE C-21219 PROFESSIONAL SEAL:



Department of Health Care Access and Information

HCAI # S222316-36-00



No.	Date	Revision / Issue	REVISIONS
1	02.08.2023	PLAN CHECK	

SHEET INFORMATION	
Issue	
Date	12.28.2022
Job Number	21007618.00
Drawn	
Checked	
Approved	

SHEET TITLE

GENERAL NOTES

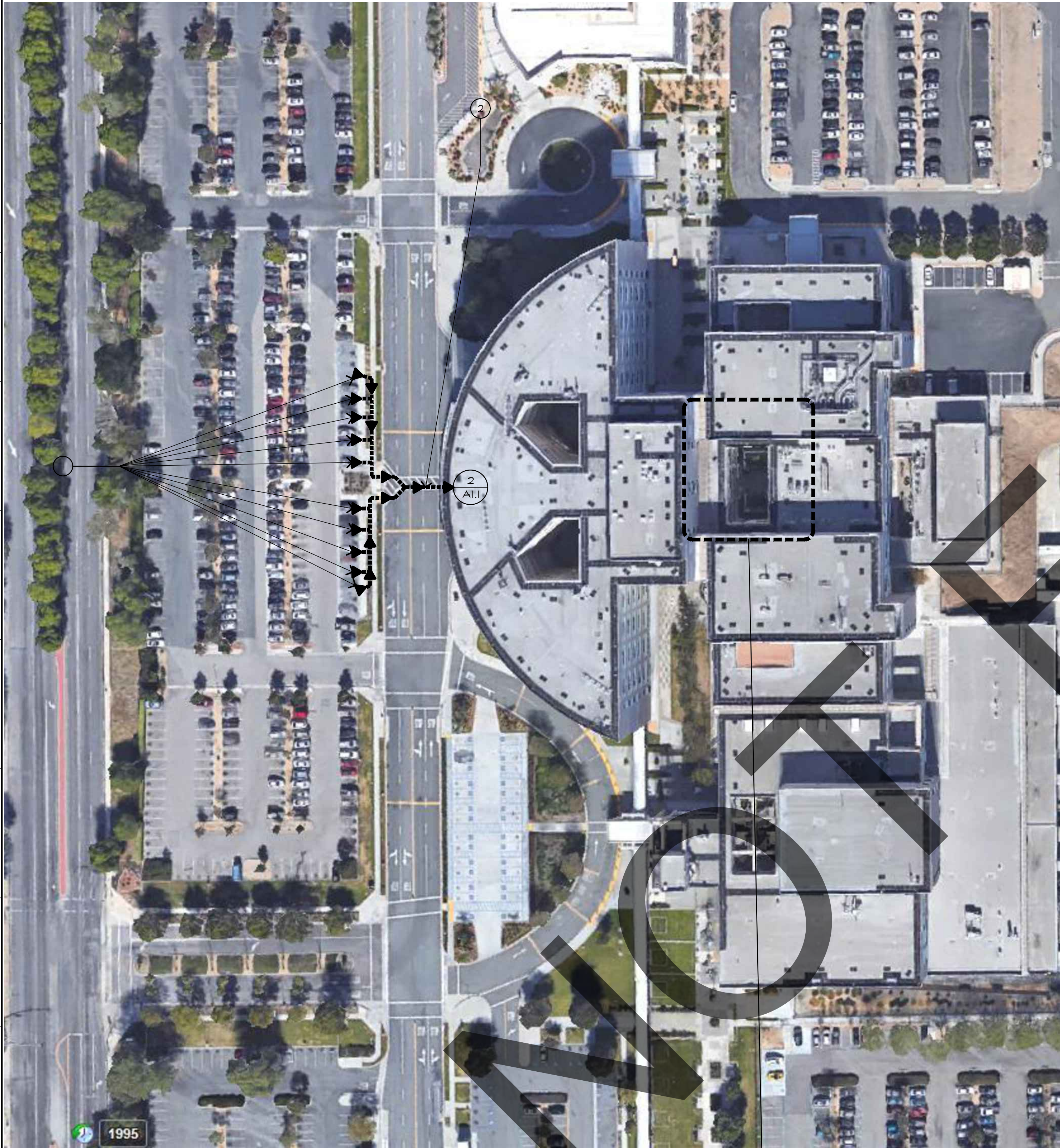
SHEET NUMBER

T1.2

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- 1 EXISTING ACCESSIBLE PARKING SPACES.
- 2 EXISTING ACCESSIBLE PATH OF TRAVEL TO ACCESSIBLE BUILDING ENTRANCE.
- 3 EXISTING ACCESSIBLE PRIMARY PATH OF TRAVEL.
- 4 EXISTING ACCESSIBLE ELEVATOR.
- 5 EXISTING ACCESSIBLE PUBLIC TOILET ROOM.
- 6 EXISTING ACCESSIBLE DRINKING FOUNTAIN
- 7 EXISTING ACCESSIBLE PUBLIC TELEPHONES
- 8 EXISTING ACCESSIBLE STAFF TOILET.

KEYNOTES

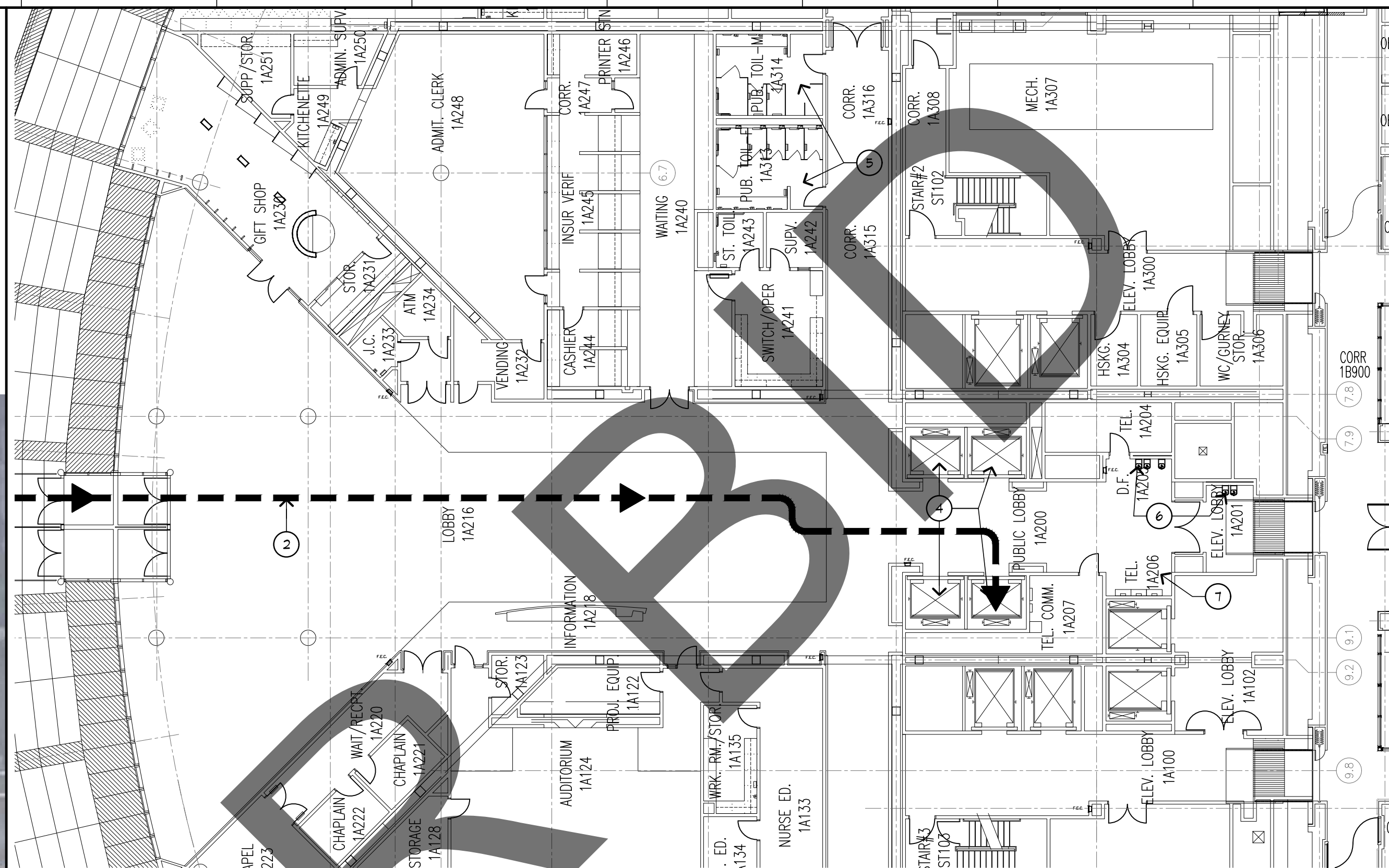


PROJECT LOCATION AT
GROUND LEVEL 3/A.1.1

SITE PLAN - PATH OF TRAVEL

1"=80'-0"

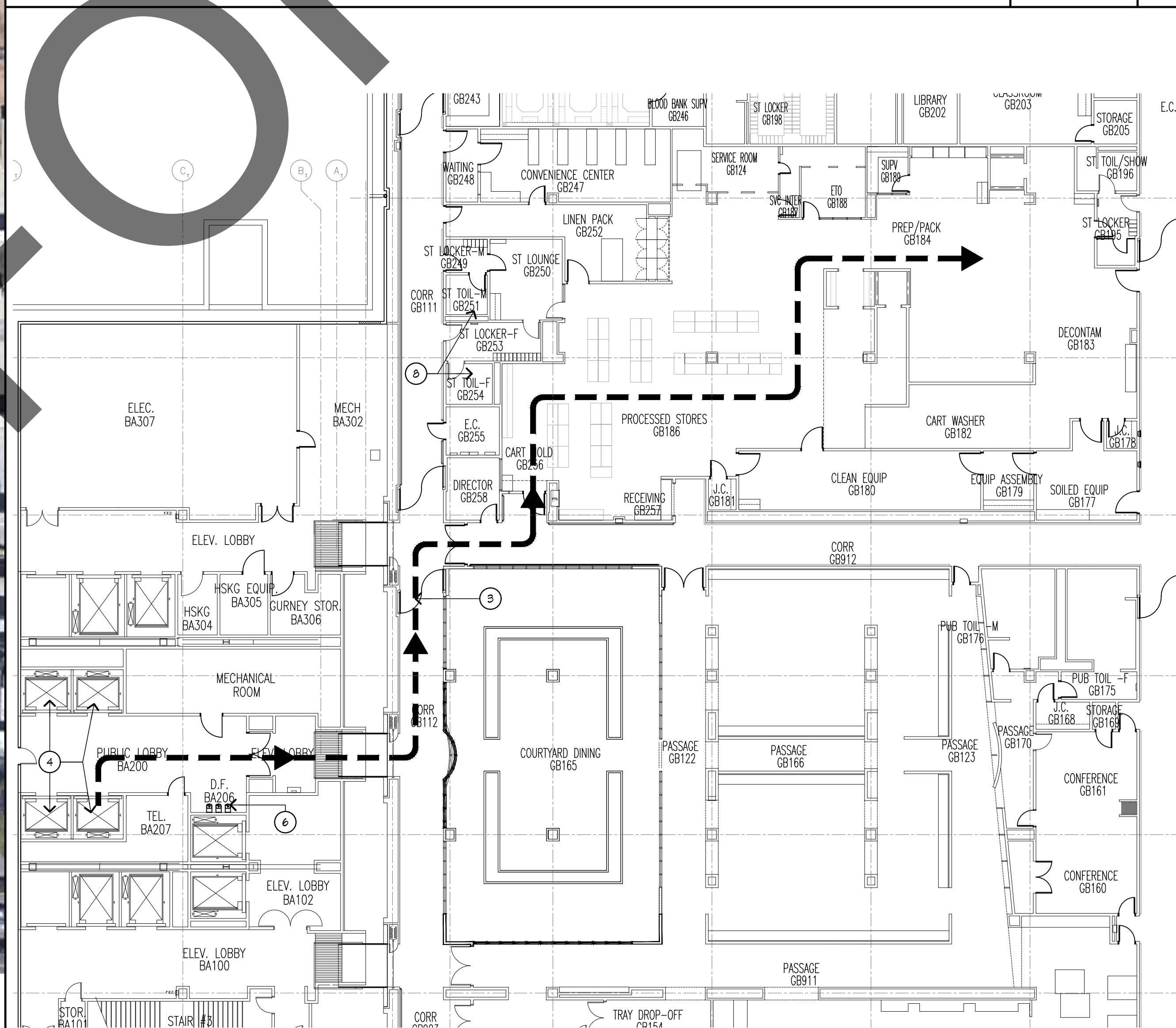
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PARTIAL FIRST LEVEL FLOOR PLAN - PATH OF TRAVEL

1/16"=1'-0"

2



PARTIAL GROUND LEVEL FLOOR PLAN - PATH OF TRAVEL

1/16"=1'-0"

3

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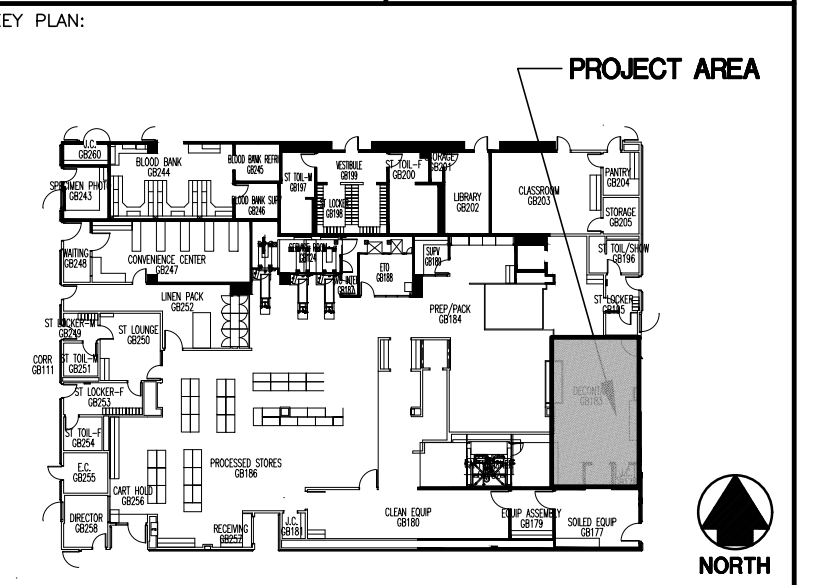
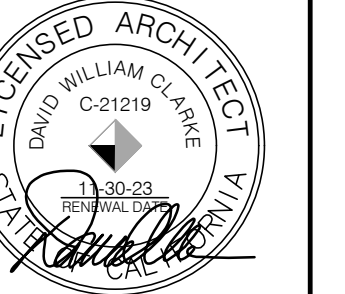
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ARCHITECT:
marks architects
73121 FRED WARING DR. STE. 200
PALM DESERT, CA. 92260
760-327-6800

Project No. 3021028

DAVID WILLIAM CLARKE C-21219 PROFESSIONAL SEAL:



Department of Health Care Access and Information



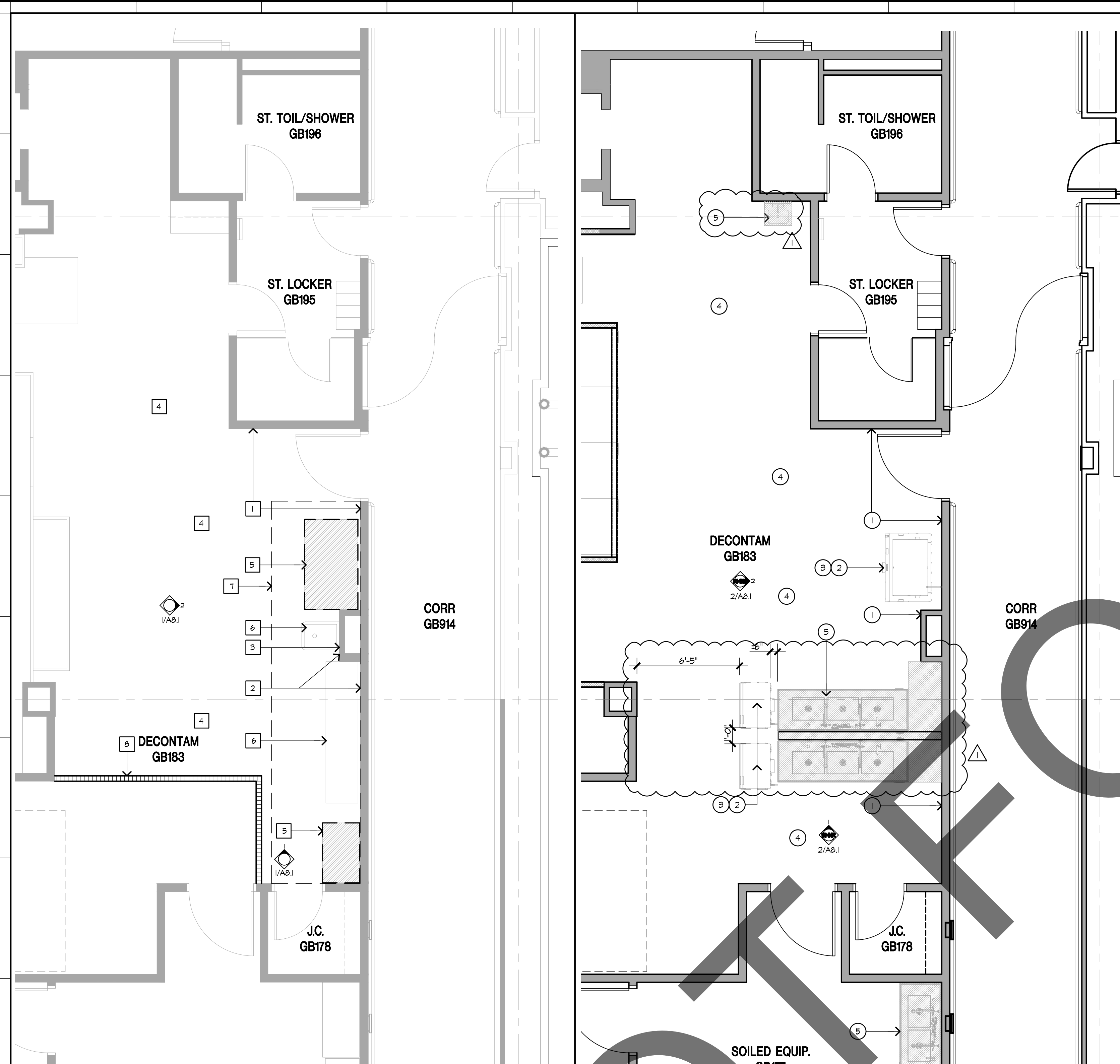
No.	Date	Revision / Issue	REVISIONS

SHEET INFORMATION	
Issue	12.28.2022
Date	21007618.00
Job Number	
Drawn	
Checked	
Approved	

SHEET TITLE
**SITE PLAN -
PATH OF TRAVEL**

SHEET NUMBER

A1.1



- | | |
|---|---|
| 1 | EXISTING WALL SHALL REMAIN. CONTRACTOR SHALL PROTECT DURING CONSTRUCTION. |
| 2 | EXISTING TILE ON WALL SHALL BE REMOVED UNDER SEPARATE PROJECT: 5222347-36-00. |
| 3 | EXISTING PLUMBING CHASE SHALL REMAIN. CONTRACTOR SHALL PROTECT DURING CONSTRUCTION. |
| 4 | EXISTING FINISH FLOORING AND BASE SHALL REMAIN. |
| 5 | EXISTING IRRIGATORS SHALL BE REMOVED AND REPLACED. ALL PLUMBING CONNECTED TO IRRIGATOR SHALL BE REMOVED. SEE PLUMBING PLANS FOR PIPING DEMOLITION AND REMODEL. SEE REMODEL PLAN FOR LOCATION. |
| 6 | EXISTING SINK AND PLUMBING SHALL BE REMOVED UNDER SEPARATE PROJECT: 5222347-36-00. |
| 7 | FINISH FLOORING & COVED BASE SHALL BE REMOVED UNDER SEPARATE PROJECT: 5222347-36-00. |
| 8 | TEMPORARY PARTITION WALL CONSTRUCTED AS PART OF 5222347-36-00 SHALL ALSO BE IN PLACE DURING THE WORK IN THIS PROJECT. |

DEMOLITION KEYNOTES

- 1 EXISTING WALL SHALL REMAIN. CONTRACTOR SHALL PROTECT DURING CONSTRUCTION. WALLS AT EXISTING EQUIPMENT REMOVED UNDER THIS PROJECT SHALL BE PATCHED, REPAIRED, AND REFINISHED UNDER SEPARATE PROJECT. 5222341-36-00.
- 2 NEW STERIS STERILIZER EQUIPMENT TO BE PROVIDED AND INSTALLED BY STERIS. (1) "INNOVAVE" PRO SONIC IRRIGATOR-59 GAL. AND (2) "INNOVAVE" UNITY SONIC IRRIGATOR-20 GAL. VERIFY EQUIPMENT CLEARANCE AND INSTALLATION WITH STERIS REPRESENTATIVE.
- 3 SEISMIC TIE-DOWN PLATES FURNISHED BY STERIS AND INSTALLED BY CONTRACTOR. SEE STRUCTURAL DRAWINGS FOR DETAILS.
- 4 EXISTING FINISH FLOORING AND BASE SHALL REMAIN. CONTRACTOR SHALL PROTECT DURING CONSTRUCTION. FINISH FLOORING AND COVERED BASE AT EXISTING EQUIPMENT REMOVED UNDER THIS PROJECT SHALL BE REPLACED AND/OR PATCHED UNDER SEPARATE PROJECT. 5222341-36-00.
- 5 HATCHED AREA (SINKS) UNDER SEPARATE PROJECT AND APPROVAL. 5222341-36-00. STERILIZATION SYSTEM INSTALLATION. THE AOR IS SUBMITTING BOTH THIS PROJECT AND THE STERILIZATION INSTALLATION PROJECT TO HCAI FOR SEPARATE APPROVAL BUT UNDER CONCURRENT REVIEW. CONSTRUCTION SHALL ALSO BE EXECUTED CONCURRENTLY BY THE SAME CONTRACTOR.

REMODEL KEYNOTES

PROJECT TITLE: SONIC IRRIGATION
REPLACEMENTS
FOR THE
ARROWHEAD REGIONAL MEDICAL CENTER
400 N. PEPPER AVE., COLTON, CA. 92324
WBSE #: 10, 10, 1066
CIP #: 21-065
CAF# #: CL003



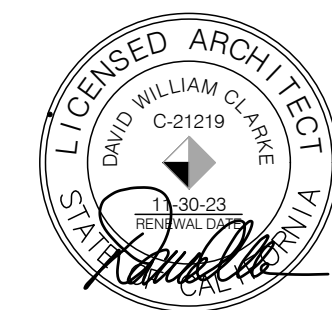
PROFESSIONAL SEAL:



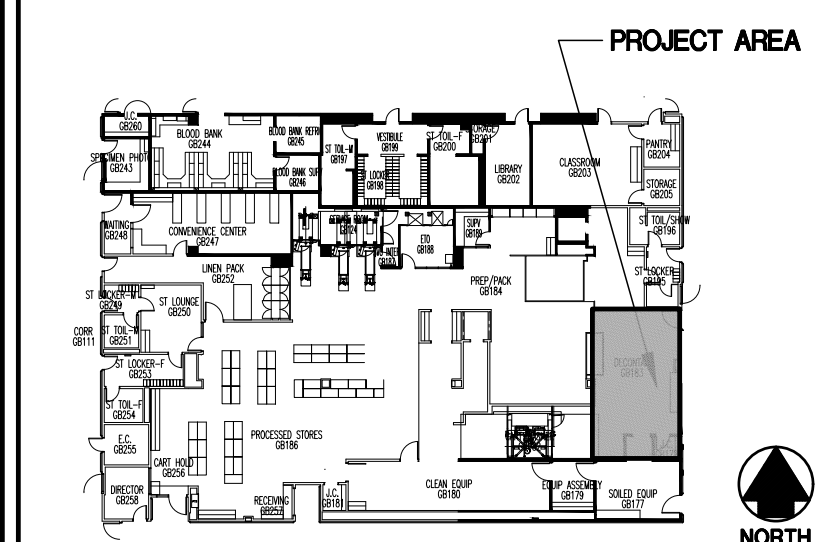
Project No. 3021028

DAVID WILLIAM CLARKE C-21219

PROFESSIONAL SEAL:



KEY PLAN:



Department of Health Care Access and Information

HCAI # S222316-36-00

[illegible]

SHEET INFORMATION

Issue	
Date	12.28.2022
Job Number	21007618.00
Drawn	
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Approved	

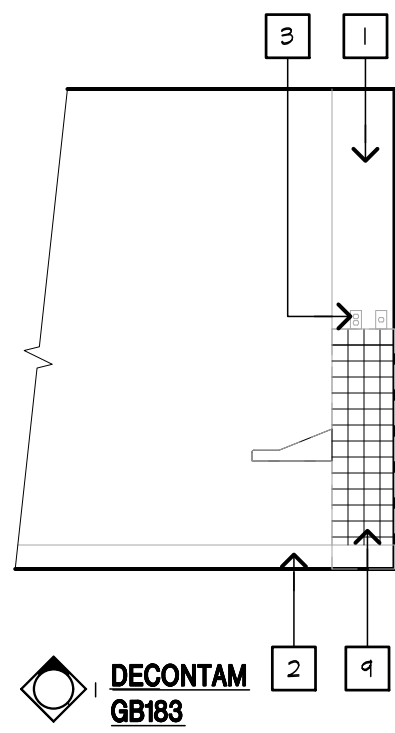
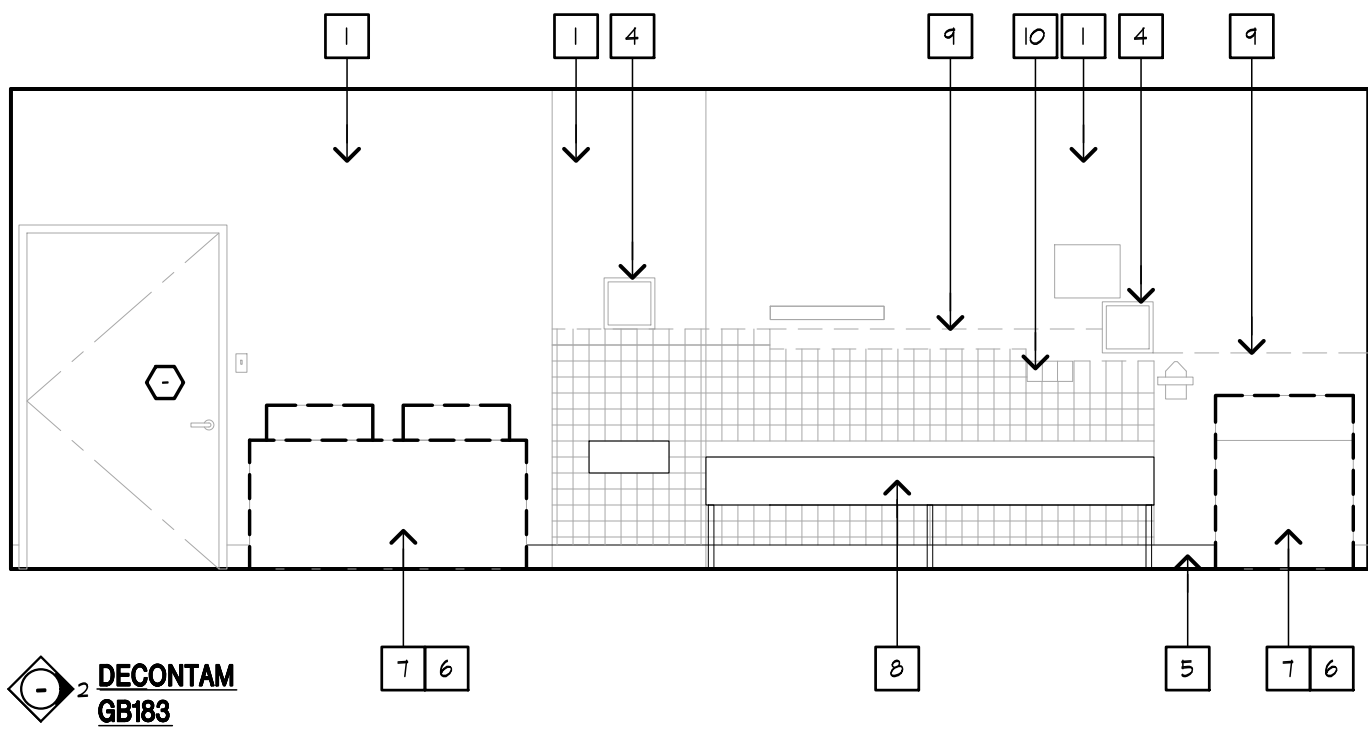
SHEET TITLE

DEMOLITION & REMODEL
FLOOR PLAN

SHEET NUMBER

A2.1

S:\Active Projects\County of San Bernardino\Arrowhead Regional Medical Center\3021028) ARMC - Sonic Irrigators\3021028 AS-1.dwg May 04, 2023 - 2:14pm



DEMOLITION INTERIOR ELEVATIONS

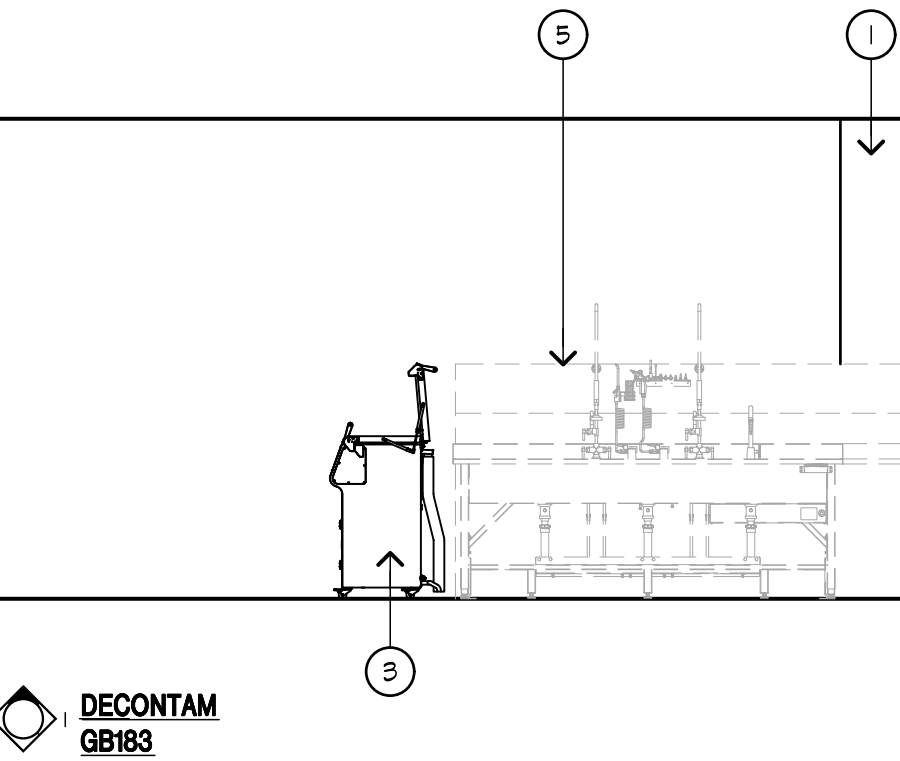
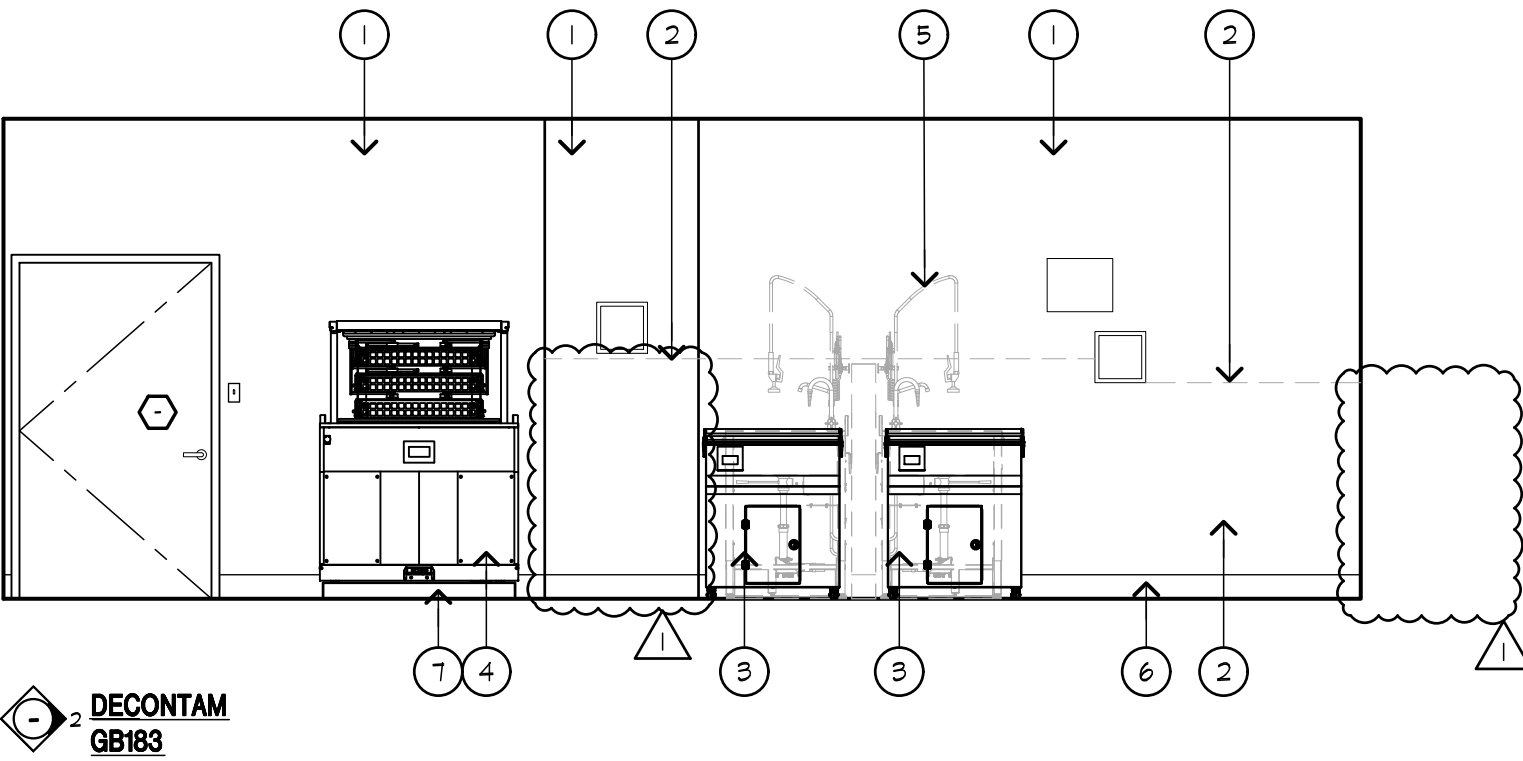
1/4"=1'-0"

1

- EXISTING WALL SHALL REMAIN. CONTRACTOR SHALL PROTECT DURING CONSTRUCTION.
- EXISTING WALL BASE SHALL REMAIN. PROTECT DURING CONSTRUCTION.
- EXISTING ELECTRICAL SWITCHES, AND OUTLETS SHALL REMAIN. VERIFY WITH ELECTRICAL DRAWINGS. PROTECT DURING CONSTRUCTION.
- ACCESS DOOR SHALL REMAIN. PROTECT DURING CONSTRUCTION.
- EXISTING WALL BASE SHALL BE REMOVED.
- ALL PLUMBING EQUIPMENT ON THE WALL SHALL BE REMOVED PER PLUMBING DRAWINGS.
- EXISTING SONIC IRRIGATORS SHALL BE REMOVED.
- EXISTING SINKS SHALL BE REMOVED UNDER A SEPARATE PROJECT, PROJECT NUMBER AND SEPARATE APPROVAL: PROJECT NUMBER S222341-36-00 STERILIZATION SYSTEM INSTALLATION. PROJECTS SHALL BE SUBMITTED SEPARATELY BUT CONSTRUCTION SHALL BE EXECUTED SIMULTANEOUSLY.
- EXISTING DRYWALL AND TILE SHALL BE REMOVED UNDER A SEPARATE PROJECT, PROJECT NUMBER AND SEPARATE APPROVAL: PROJECT NUMBER S222341-36-00 STERILIZATION SYSTEM INSTALLATION. PROJECTS SHALL BE SUBMITTED SEPARATELY BUT CONSTRUCTION SHALL BE EXECUTED SIMULTANEOUSLY.
- EXISTING MED-GAS OUTLETS TO REMAIN. PROTECT DURING DEMOLITION AND CONSTRUCTION ACTIVITIES.

DEMOLITION KEYNOTES

- EXISTING WALL SHALL REMAIN. CONTRACTOR SHALL PROTECT DURING CONSTRUCTION. CONTRACTOR SHALL PATCH AND REPAIR WALL AS REQUIRED AND PROVIDE ONE COAT PRIMER AND TWO COATS ZERO VOC PAINT, COLOR AND FINISH SURFACE SHALL MATCH EXISTING.
- EXISTING WALL TO BE PATCHED AND REPAIRED UNDER SEPARATE PROJECT AND APPROVAL FOR S222341-36-00. CONTRACTOR SHALL COORDINATE REPAIRS TO WALLS DUE TO SCOPE OF WORK IN THIS PROJECT WITH REPAIRS TO WALLS DUE TO SCOPE OF WORK IN THE OTHER PROJECT.
- NEW STERIS STERILIZER EQUIPMENT. (2) "INNOVAVE" UNITY SONIC IRRIGATOR-20 GAL. VERIFY EQUIPMENT CLEARANCE AND INSTALLATION WITH STERIS REPRESENTATIVE.
- NEW STERIS STERILIZER EQUIPMENT. (1) "INNOVAVE" PRO SONIC IRRIGATOR-54 GAL. VERIFY EQUIPMENT CLEARANCE AND INSTALLATION WITH STERIS REPRESENTATIVE.
- SINKS UNDER A SEPARATE PROJECT AND APPROVAL: S222341-36-00, STERILIZATION SYSTEM INSTALLATION. BOTH THIS PROJECT AND THE STERILIZATION INSTALLATION PROJECT SHALL BE SUBMITTED SEPARATELY BUT CONCURRENTLY. CONSTRUCTION SHALL ALSO BE EXECUTED AND COORDINATED CONCURRENTLY BY THE SAME CONTRACTOR.
- FLOORING IN THIS AREA SHALL BE REPLACED AS PART OF SEPARATE PROJECT AND APPROVAL FOR S222341-36-00, STERILIZATION SYSTEM INSTALLATION.
- 4' CONC. HOUSEKEEPING PAD. SEE STRUCTURAL.



REMODEL INTERIOR ELEVATIONS

1/4"=1'-0"

2

REMODEL KEYNOTES

PROJECT TITLE:
**SONIC IRRIGATION
REPLACEMENTS**
FOR THE
ARROWHEAD REGIONAL MEDICAL CENTER
400 N. PEPPER AVE., COLTON, CA. 92324
WBSE #: 10.10.1066
CIP #: 21-065
CAF# #: COL003



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REFERENCE SCALE IN INCHES
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PROFESSIONAL SEAL:

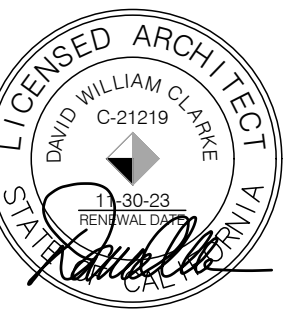


73121 FRED WARING DR. STE. 200
PALM DESERT, CA. 92260
760-327-6800

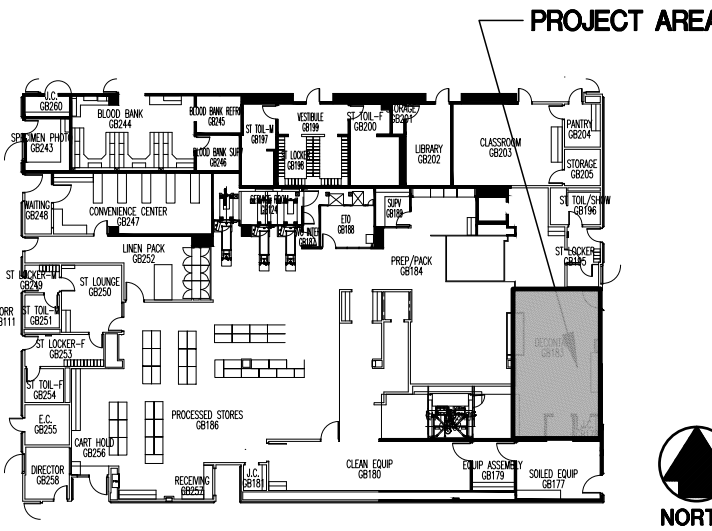
Project No. 3021028

DAVID WILLIAM CLARKE C-21219

PROFESSIONAL SEAL:



KEY PLAN:



Department of Health Care Access and Information

HCAI # S222316-36-00



No.	Date	Revision / Issue	REVISIONS
1	02.08.2023	PLAN CHECK	

SHEET INFORMATION

Issue
Date **12.28.2022**
Job Number **21007618.00**
Drawn
Checked
Approved

SHEET TITLE

**DEMOLITION & REMODEL
INTERIOR ELEVATIONS**

SHEET NUMBER

A8.1

- GENERAL**
- ALL WORK SHALL COMPLY WITH TITLE 24 OF THE CALIFORNIA CODE OF CALIFORNIA BUILDING CODE, 2019, AND ALL OTHER LOCAL OR STATE AGENCIES HAVING JURISDICTION ON THIS PROJECT.
 - NEITHER THE PROFESSIONAL ACTIVITIES OF THE ENGINEER, NOR THE PRESENCE OF THE ENGINEER OR THEIR EMPLOYEES AND SUBCONSULTANTS AT THE CONSTRUCTION SITE, SHALL RELIEVE THE CONTRACTOR AND ANY OTHER ENTITY OF THEIR OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE ENGINEER AND THEIR PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR OTHER ENTITY OR THEIR EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PRECAUTIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE JOBSITE SAFETY. THE ENGINEER AND THE ENGINEER'S CONSULTANTS SHALL BE MADE ADDITIONAL INSURED UNDER THE CONTRACTOR'S GENERAL LIABILITY INSURANCE POLICY.
 - ALL DRAWINGS AND SPECIFICATIONS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
 - ALL DIMENSIONS AND SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOBSITE PRIOR TO CONSTRUCTION, START OF SHOP DRAWINGS, START OF CONSTRUCTION, AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, OR CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS, THE ARCHITECT AND SEOR SHALL BE NOTIFIED FOR CLARIFICATION.
 - CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED AS A RESULT OF NEW WORK.
 - STRUCTURAL DRAWINGS INCLUDE DESIGN REQUIREMENTS AND DIMENSIONS FOR STRUCTURAL INTEGRITY BUT DO NOT SHOW ALL DETAIL DIMENSIONS TO FIT INTRICATE ARCHITECTURAL DETAILS. CONTRACTOR SHALL SO CONSTRUCT THE WORK SO IT WILL CONFORM TO THE CLEARANCES REQUIRED BY ARCHITECTURAL, MECHANICAL AND ELECTRICAL DESIGN.
 - ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
 - DO NOT SCALE DRAWINGS. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DRAWINGS AND LARGE-SCALE OVER SMALL-SCALE DRAWINGS. CONTRACTOR TO DETERMINE FINAL DIMENSION WITH ARCHITECT.
 - TYPICAL DETAILS SHALL APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
 - THE CONTRACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKMEN DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OR APPROVAL OF THE ABOVE ITEMS AND DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITIES FOR THE ABOVE.
 - SEE ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS FOR DETAILS, CONDITIONS, PITS, TRENCHES, PADS, DEPRESSIONS, ROOF/FLOOR OPENINGS, STAIRS, SLEEVES, ITEMS TO BE EMBEDDED OR ATTACHED TO STRUCTURAL ELEMENTS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS.
 - ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL AND PLUMBING WITH APPROPRIATE TRADE CONTRACTORS. OPENING SIZES AND LOCATIONS SHOWN FOR DUCTS, PIPE, INSERTS AND OTHER PENETRATIONS WHEN SHOWN ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED PRIOR TO FORMING.
 - NO HOLES, NOTCHES, BLOCKOUTS, ETC. ARE ALLOWED IN STRUCTURAL ELEMENTS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
 - BEFORE SUBMITTING A PROPOSAL FOR THIS WORK, EACH BIDDER SHALL VISIT THE PREMISES AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS. TEMPORARY CONSTRUCTION REQUIRED, QUANTITIES AND TYPE OF EQUIPMENT, ETC. THE BID SHALL INCLUDE ALL SUMS REQUIRED TO DO THE WORK WITHIN THE EXISTING CONDITIONS.
 - SHOP DRAWINGS SHALL BE REVIEWED AND COORDINATED PRIOR TO SUBMITTING TO THE ARCHITECT. EACH SHOP DRAWING SUBMITTED SHALL BE STAMPED INDICATING REVIEW BY THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR AND REVIEW BY THE ARCHITECT SHALL NOT BEGIN UNTIL THIS IS COMPLETE. WORK SHALL NOT BEGIN WITHOUT REVIEW BY THE ARCHITECT/STRUCTURAL ENGINEER.
 - SHOP DRAWINGS SHALL BE REVIEWED BY THE ARCHITECT/STRUCTURAL ENGINEER FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. NOTATIONS MADE BY THE ARCHITECT/STRUCTURAL ENGINEER ON THE SHOP DRAWINGS DO NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS.
 - EXISTING CONDITIONS:
 - ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE. CONTRACTOR TO VERIFY EXISTING INFORMATION, DIMENSIONS AND SIZES AS REQUIRED TO COMPLETE THEIR WORK. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE AOR OR SEOR SO PROPER CLARIFICATION MAY BE MADE. MODIFICATION OF CONSTRUCTION DETAILS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT OR STRUCTURAL ENGINEER.

DEMOLITION

- ALL DEMOLITION SHALL BE CARRIED OUT IN SUCH A WAY AS TO NOT DAMAGE EXISTING ELEMENTS WHICH ARE TO REMAIN.
- ALL ELEMENTS WHICH ARE TO REMAIN AND WHICH ARE DAMAGED DURING DEMOLITION WORK SHALL BE REPLACED AT NO ADDED COST. EXISTING ELEMENTS ARE TO BE PROTECTED TO THE FULLEST EXTENT POSSIBLE TO REDUCE SUCH DAMAGE TO A MINIMUM.

STEEL

- STRUCTURAL STEEL SHALL CONFORM TO ASTM STANDARDS AS NOTED BELOW:

WIDE FLANGE SHAPES	ASTM A992	Fy = 50 KSI
OTHER ROLLED SHAPES	ASTM A36	Fy = 36 KSI
PIPE SECTIONS	ASTM A53, GR B	Fy = 35 KSI
HSS SECTIONS, ROUND	ASTM A500, GR C	Fy = 46 KSI
HSS SECTIONS, SQUARE	ASTM A500, GR B	Fy = 46 KSI
BASE AND CONNECTION PLATES	ASTM A36	Fy = 36 KSI
ANCHOR RODS	ASTM F1554, GR 36	Fy = 36 KSI
HIGH STRENGTH BOLTS	ASTM F3125, GR A325	Fv = 120 KSI
HIGH STRENGTH BOLTS	ASTM F3125, GR A490	Fv = 150 KSI
HIGH STRENGTH TWIST-OFF BOLTS	ASTM F3125, GR F1852	Fv = 120 KSI
HIGH STRENGTH TWIST-OFF BOLTS	ASTM F3125, GR F2280	Fv = 150 KSI
HEAVY HEX NUTS	ASTM A563	
WASHERS	ASTM F436	
HEADED STUDS	ASTM A108, TYPE B	
ELECTRODES FOR ARC WELDING	AWS 5.1, E70XX	
- HIGH STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS". REFER TO DETAILS FOR BOLT SIZE AND MATERIAL ASTM DESIGNATION.
- USE TENSION-CONTROL, "TWIST-OFF", BOLTS FOR ALL HIGH STRENGTH BOLTS REQUIRING FULL TENSION AS INDICATED ON THE DRAWINGS.
- ALL HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM F3125, GRADE A325N, UNO. FOR ALL DRAG-STRUT BOLTS, HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM F3125, GRADE A490SC.
- STANDARD BOLT HOLES IN STEEL SHALL BE 1/16 INCH LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLT USED, UNO.
- BOLTS IN SLOTTED HOLES SHALL BE LOCATED IN THE CENTER OF THE HOLE AFTER FIELD ASSEMBLY IS COMPLETE, UNLESS DETAILED OTHERWISE.
- WELD LENGTHS INDICATED ON THE DRAWINGS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM SIZE WELDS AS SPECIFIED IN AISC 360, SECTION J2.4 AND CHAPTER 22A OF THE CALIFORNIA BUILDING CODE.
- FIELD CONNECTIONS SHALL BE WELDED OR BOLTED. SHOP CONNECTIONS SHALL BE WELDED, UNO. WELDS INDICATED WITH A SHOP WELD SYMBOL MAY BE MADE IN THE FIELD WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. LOCATIONS OF ALL FIELD WELDS SHALL BE CLEARLY SHOWN ON THE SHOP DRAWINGS. WELDS SHALL BE DESIGNED TO BE FULLY EQUIVALENT IN STRENGTH TO BOLTED CONNECTIONS DETAILED TO MINIMIZE BENDING IN THE CONNECTION.
- HEADED STUDS:
 - STUDS SHALL BE AUTOMATICALLY END WELDED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS IN SUCH A MANNER AS TO PROVIDE COMPLETE FUSION BETWEEN THE END OF THE STUD AND THE PLATE. THERE SHOULD BE NO POROSITY OR EVIDENCE OF LACK OF FUSION BETWEEN THE WELDED END OF THE STUD AND THE PLATE. THE STUD SHALL DECREASE IN LENGTH DURING WELDING APPROXIMATELY 1/8" FOR 5/8" AND SMALLER AND 3/16" FOR LARGER THAN 5/8". WELDING SHALL BE DONE ONLY BY QUALIFIED WELDERS APPROVED BY THE INSPECTION AGENCY.
- REFER TO DRAWINGS FOR DETAIL OF DECK OPENINGS. REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS, ETC. FOR EXACT SIZE, LOCATION, AND COUNT OF REQUIRED OPENINGS.
- CUTS, HOLES, OPENINGS, ETC., REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS. BURNING OF HOLES AND CUTS IN THE FIELD SHALL NOT BE ALLOWED, EXCEPT BY WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER. NO HOLES SHALL BE CUT IN STRUCTURAL STEEL BY OTHER TRADES UNLESS SHOWN ON STRUCTURAL DRAWINGS OR APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.

QUALITY CONTROL

- UNLESS NOTED OTHERWISE, MATERIALS SHALL CONFORM AND TESTS AND INSPECTIONS SHALL BE PERFORMED BY THE APPROVED TESTING AGENCY AND/OR THE JOB INSPECTOR WHO IS APPROVED BY HCAI, THE ARCHITECT AND THE STRUCTURAL ENGINEER AND CONFORM TO THE PROVISIONS OF THE 2019 CALIFORNIA BUILDING CODE, PER GENERAL NOTE 1 ON THIS SHEET, COORDINATE AND WORK WITH THE HCAI TESTING, INSPECTION AND OBSERVATION (TIO) PROGRAM FORM FOR THE PROJECT.

STRUCTURAL OBSERVATION

- PROVIDE STRUCTURAL OBSERVATION IN ACCORDANCE TO 2019 CBC, SECTIONS 1704.6 & 1704A.6.

DESIGN BASIS

THE DESIGN IS IN ACCORDANCE WITH ASCE/SEI 7-16 (MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES) AS MODIFIED BY THE CALIFORNIA BUILDING CODE, 2019 EDITION:

- RICK CATEGORY : IV
- SEISMIC PARAMETERS & SITE COEFFICIENTS (MAPPED RESPONSE SPECTRUM AS PER 2019 CBC)

SITE CLASS	= D (DEFAULT)
SEISMIC DESIGN CATEGORY	= IV
Ss	= 2.045 g
S1	= 0.811 g
Sds	= 1.636 g
SEISMIC IMPORTANCE FACTOR, I	= 1.5

VIEW KEY

NAME 10'-0"	LEVEL NAME HEIGHT ABOVE PROJECT 0'-0"	1 INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL.
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INDICATES DIRECTION OF TRUE NORTH
PLAN OR DETAIL NUMBER
PLAN OR DETAIL NAME
1/8" = 1'-0"
PLAN OR DETAIL SCALE

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS
DETAIL REFERRED TO BY SECTION CUT
1
S300
SHEET DETAIL IS LOCATED ON

LINE TYPE KEY:

NEW WORK (DARK SOLID LINE/LINE WEIGHT WILL VARY)
NEW WORK BELOW OR BEYOND VIEW (DARK DASH LINE)
EXISTING TO BE REMOVED (DARK DASH LINE)
EXISTING WORK TO REMAIN (HALFTONED SOLID LINE/LINE WEIGHT WILL VARY)
NON STRUCTURAL (HALFTONED LIGHT SOLID LINE)
GRID OR CENTERLINE

MATERIAL LEGEND:

CONCRETE - CAST-IN-PLACE	MASONRY
CONCRETE - EXISTING	METAL / COLD-FORM STUD
EARTH	PRECAST CONCRETE
GRAVEL OR GRANULAR FILL	STEEL
GROUT OR DRYPACK OR SAND	

WXX
BXX
COLUMN DESIGNATION
BASE PLATE MARK
SF#(+X'-X")
PF#(+X'-X")
FOOTING MARK (TOP ELEVATION)
PIER MARK (TOP ELEVATION)

STRUCTURAL SHEET INDEX

SHEET NUMBER	SHEET NAME
S0.0	GENERAL NOTES
S2.1	GROUND FLOOR - EQUIPMENT LOCATION PLAN
S8.0	EQUIPMENT ANCHORAGE SECTIONS AND DETAILS
S8.1	EQUIPMENT ANCHORAGE SECTIONS AND DETAILS
GRAND TOTAL: 4	

PROJECT TITLE:
SONIC IRRIGATION REPLACEMENTS
FOR THE
ARROWHEAD REGIONAL MEDICAL CENTER
400 N. PEPPER AVE. COLTON, CA. 92324
WBSE #: 10.10.1066
CIP #: 21-065
CAFM #: COL003

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PROJECT # 21007618.00
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REFERENCE SCALE IN INCHES
0 1 2 3

PROFESSIONAL SEAL:
REGISTERED PROFESSIONAL ENGINEER
EDWARD T. GHARIANIS
No. 2942
Exp. 08/20/23
STATE OF CALIFORNIA

ARCHITECT:
marks architects
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PALM DESERT, CA 92260
760-327-6800
Project No. 3021028.00

DAVID WILLIAM CLARKE C-21219
PROFESSIONAL SEAL:
LICENSED ARCHITECT
DAVID WILLIAM CLARKE
C-21219
STATE OF CALIFORNIA

KEY PLAN:
PROJECT AREA
NORTH

Department of Health Care Access and Information

HCAI # S222316-36-00

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
with comments
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
5/16/2023, 2:27:57 PM
S222316-36-00
Laura Baldrati

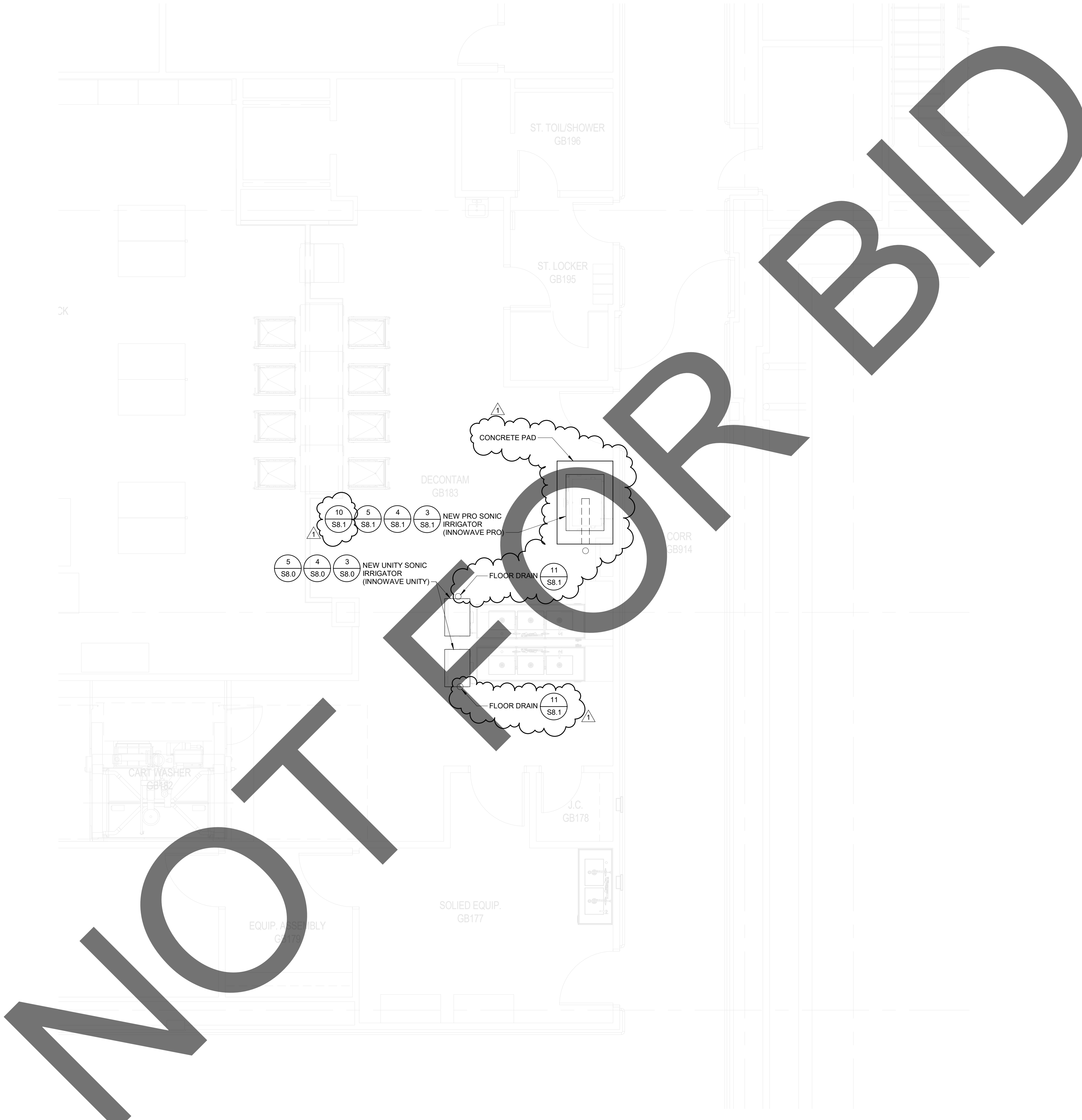
No.	Date	Revision / Issue	REVISIONS

SHEET INFORMATION
Issue
100% CONSTRUCTION DOCUMENTS
Date
12/28/2022
Job Number
21007618.00
Drawn
Author
Checked
Checker
Approved
SHEET TITLE

GENERAL NOTES

SHEET NUMBER

S0.0



1 **GROUND FLOOR - EQUIPMENT LOCATION PLAN**
1/4" = 1'-0"

PROJECT TITLE:
**SONIC IRRIGATION
REPLACEMENTS
FOR THE
ARROWHEAD REGIONAL MEDICAL CENTER**
400 N. PEPPER AVE. COLTON, CA. 92324
WBSE #: 10.10.1066
CIP #: 21-065
CAFM #: COL003

IMEG
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PROJECT # 21007618.00

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REFERENCE SCALE IN INCHES
0 1 2 3



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Project No. 3021028.00

DAVID WILLIAM CLARKE C-21219
PROFESSIONAL SEAL:

KEY PLAN:

Department of Health Care Access and Information
HCAI # S222316-36-00

REVIEWED IN ACCORDANCE WITH
THE REQUIREMENTS OF T24, CCR
APPROVED
with comments
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
5/16/2023, 2:27:57 PM
S222316-36-00
Laura Baldrati

No.	Date	Revision / Issue	REVISIONS
1	2/8/2023	HCAI COMMENTS	

SHEET INFORMATION	
Issue	100% CONSTRUCTION DOCUMENTS
Date	12/28/2022
Job Number	21007618.00
Drawn	Author
Checked	Checker
Approved	

**GROUND FLOOR
EQUIPMENT LOCATION
PLAN**

SHEET NUMBER
S2.1

OSHPD OPM-0506-13
MANUFACTURE: STERIS
EQUIPMENT TYPE: WASHERS / STERILIZERS

GENERAL NOTES:

- THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2016. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2016.
- SEISMIC CRITERIA USED: $S_{DS} = 2.5$ $I_p = 1.5$ $ap = 1.0$ $R_p = 1.5$ (OTHER EQUIPMENT). FOR $z/h = 0$ $F_{pH} = 1.13$ AND FOR $z/h \leq 1.0$ $F_{pH} = 3.00$ AND $F_{pV} = 0.50$.
- SUPPORT AND ATTACHMENT FORCES ARE DETERMINED USING ASCE 7-10 CHAPTER 13 "SEISMIC DESIGN REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS". AN OVERSTRENGTH FACTOR $O_2 = 1.5$ IS USED FOR CONCRETE MATERIALS PER ASCE 7-10 SUPPLEMENT 1 TABLE 13.6-1. LOADS SHOWN ARE STRENGTH DESIGN LOADS PER CBC 2016 SECTION 1605A.2.
- THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
- STEEL MATERIALS: PLATE IS EN 10088-2:2014 (304-2B-6) STAINLESS STEEL BY MANUFACTURER ($F_y = 33.3$ KSI). ALL THREAD ROD ASTM F593 CW1 304 STAINLESS STEEL FOR BOLTS ($F_y=30$ ksi) AT ELEVATED FLOORS, ANGLE ASTM A36 ($F_y = 36$ KSI) HOT DIPPED CONCRETE SLABS:
- a. FOR ELEVATED SOLID CONCRETE SLABS: 6" THICKNESS OF NORMAL WEIGHT CONCRETE WITH 3000 PSI MINIMUM STRENGTH.
- b. METAL DECK: 3" DEEP COMPOSITE STEEL DECK, 20 GAGE MINIMUM, 4 1/2 INCH MINIMUM BOTTOM FLUTE WIDTH AND MINIMUM FLUTE SPACING OF 12", WITH 3 1/4 INCH SAND LIGHT WEIGHT CONCRETE CONCRETE COVER AT 3000 PSI MINIMUM
- c. FOR SLAB ON GRADE: 6" THICKNESS NORMAL WEIGHT CONCRETE AT 3000 PSI MINIMUM STRENGTH.
- POST-INSTALLED CONCRETE ANCHORS: HITI HIT-4V 200 HAS-R (ESR-3187) ASTM F593 CW1 STAINLESS STEEL 1/2" DIAMETER x 3" EFFECTIVE EMBEDMENT. DRILL 9/16" DIAMETER x 4 INCH DEEP HOLE; CLEAN HOLE PER MANUFACTURER'S INSTRUCTIONS. FOR ANCHORS INTO THE SOFFIT OF THE METAL DECK USE KWIK BOLT TZ (ESR-1917) 1/2" DIAMETER x 4" MIN. HOLE DEPTH FOR 3 1/4" EFFECTIVE EMBEDMENT WITH 1" MAXIMUM OFFSET FROM THE CENTER OF THE METAL DECK FLUTE. BOTH ARE SUPPLIED BY INSTALLATION CONTRACTOR.
- EXERCISE DUE CARE WHEN DRILLING POST-INSTALLED ANCHORS TO AVOID DAMAGING CONCRETE REINFORCEMENT OR TENDONS.

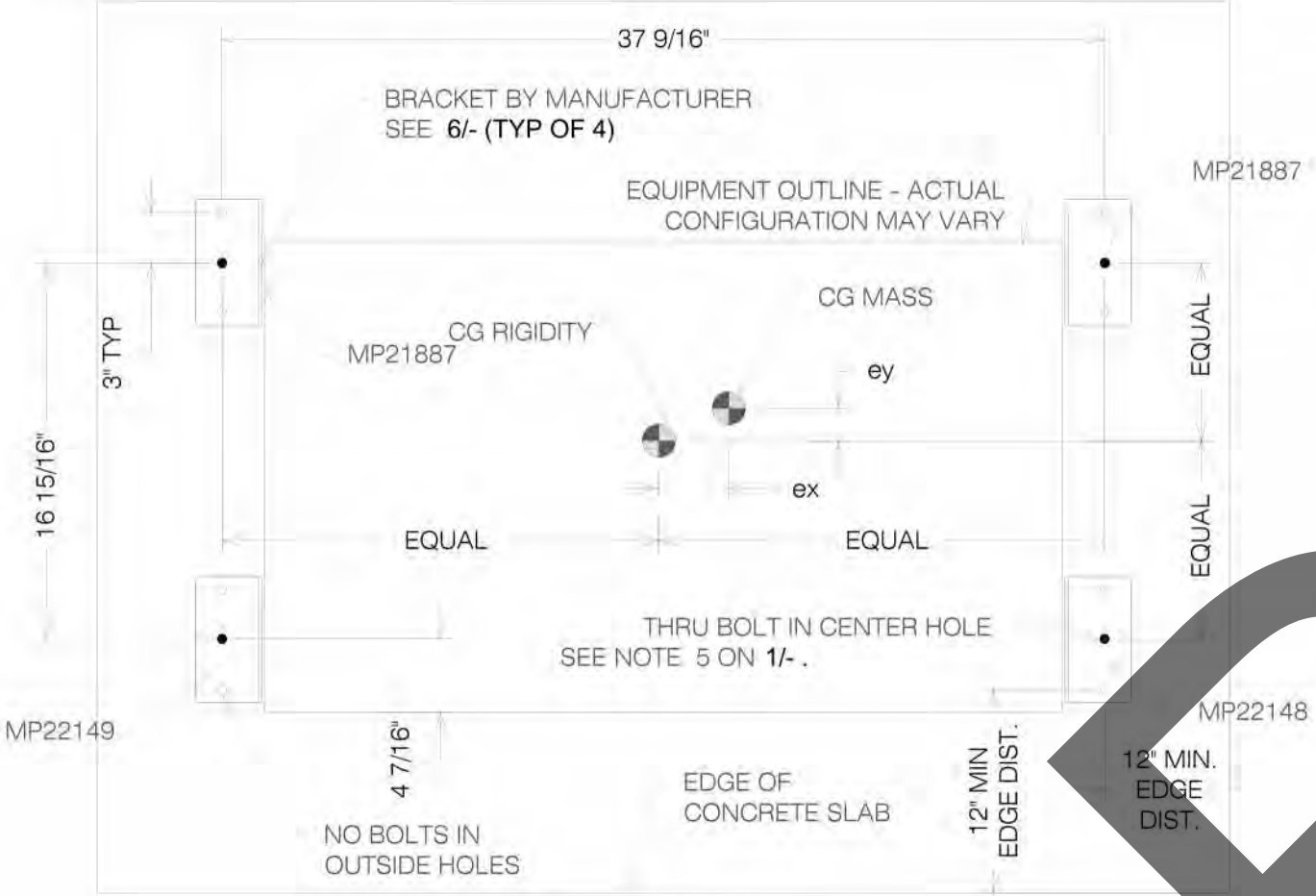
OSHPD OPM-0506-13
MANUFACTURE: STERIS
EQUIPMENT TYPE: WASHERS / STERILIZERS

ATTACHMENT NOTES:

- THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2016. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2016.
 - PERIODIC SPECIAL INSPECTION PER CBC 2016 SECTION 1705A AND TABLE 1705A.3 INCLUDING VERIFICATION OF ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, ANCHOR SPACING, EDGE DISTANCES, CONCRETE MEMBER THICKNESS, HOLE DIMENSIONS, ANCHOR EMBEDMENT AND ADHERENCE TO THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. IN ADDITION, FOLLOW THE PROVISIONS OF THE 2016 CALIFORNIA BUILDING CODE SECTION 1910A.5.5. FOR ADHESIVE ANCHORS - TENSION TESTING BY THE HYDRAULIC RAM METHOD SHALL USE A TENSION FORCE OF 2250 POUNDS (1.25*ANCHOR STRENGTH). TENSION TESTING SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR. TORQUE CONTROLLED POST-INSTALLED ANCHORS - TEST USING A CALIBRATED TORQUE WRENCH; 40 FOOT-POUNDS TORQUE SHALL BE ACHIEVED WITHIN ONE-HALF TURN OF THE NUT. TEST 50% OF THE ANCHORS FOR EACH PIECE OF EQUIPMENT. IF ANY ANCHOR FAILS TEST ALL ANCHORS. REPORT OF TEST RESULTS ARE TO BE SUBMITTED TO THE ENFORCEMENT AGENCY. THE SEOR SHALL PROVIDE REMEDIAL ANCHORAGE DETAILS IN THE EVENT THAT AN ANCHOR FAILS TO MEET THE TEST REQUIREMENTS. FOR THROUGH BOLTS MARK THE NUT LOCATION AT SNUG TIGHT CONDITION. INSPECTOR IS TO VERIFY 3/4 TURN.
 - STRENGTH DESIGN WAS USED FOR ANCHOR FORCE CALCULATIONS INCLUDING O_2 PER ACI 318-14 WHERE REQUIRED FOR ATTACHMENT TO CONCRETE.
 - PROVIDE FOR FULL THREAD ENGAGEMENT OF THE NUT AND WASHER.
- RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD**
- CONFIRM THE MATERIAL PROPERTIES AND THICKNESS OF THE CONCRETE SLAB TO WHICH THE EQUIPMENT IS ATTACHED MEETS THE REQUIREMENTS OF THIS OPM.
 - PROVIDE A PLAN FOR INSPECTION OF SUPPORTS AND ATTACHMENTS AND VERIFY ITS IMPLEMENTATION.
 - CONFIRM THE SPECIFIED MINIMUM CONCRETE EDGE DISTANCES ARE MAINTAINED BASED ON THE ACTUAL EQUIPMENT LOCATION. VERIFY THAT EXISTING OR NEW ANCHORS ARE AN ADEQUATE DISTANCE FROM THIS UNIT'S ATTACHMENT.
 - VERIFY THAT THE EXISTING STRUCTURE IS ADEQUATE FOR THE IMPOSED DEAD, LATERAL AND TENSION FORCES SHOWN IN ADDITION TO ALL OTHER LOADS.
 - VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH CBC 2016 AND WITH THE OPM-0506-13 DETAILS INCLUDING MATERIALS AND DIMENSIONS OF THE SUPPORT WHERE THE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN.
 - VERIFY THAT THE PROJECT SPECIFIC S_{DS} AND z/h VALUES RESULT IN SEISMIC FORCES (E_h AND E_v) DO NOT EXCEED THE VALUES SHOWN IN THESE DETAILS.

Y-AXIS
X-AXIS

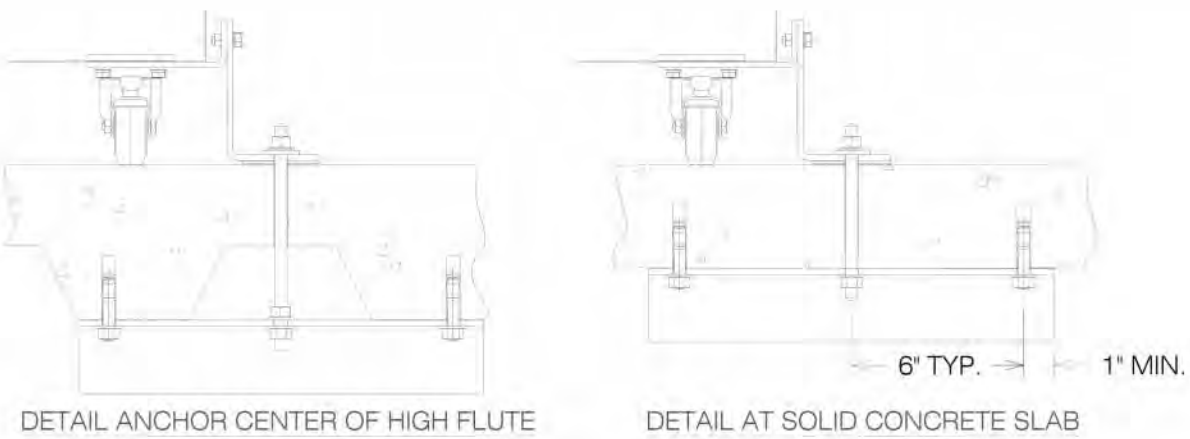
SEE PAGE 'DIM & FORCES' FOR
DIMENSIONS, ECCENTRICITIES
AND ANCHOR FORCES



ATTACHMENT PLAN VIEW

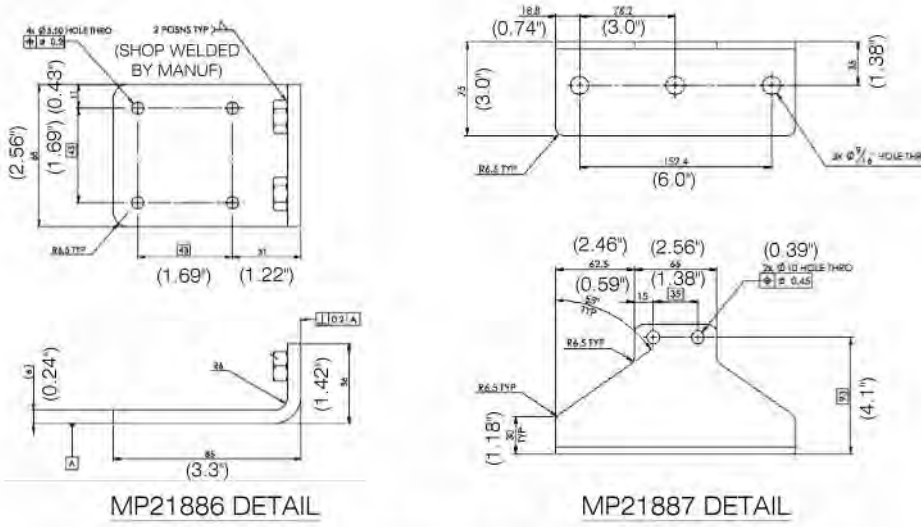
OPM-0506-13 STERIS INNOWAVE UNITY
WASHERS / STERILIZERS GENERAL NOTES

3/4" = 1'-0"



OPM-0506-13 INNOWAVE UNITY WASHERS /
STERILIZERS ATTACHMENT NOTES

3/4" = 1'-0"



OPM-0506-13 STERIS INNOWAVE UNITY WASHERS /
STERILIZERS AT ELEVATED SLAB

3/4" = 1'-0"

MP22143 SHIM DETAIL
PROVIDE 16 SHIMS PER
BRACKET: (4) EACH OF 1/64"
(0.5 mm), 1/32" (1 mm), 1/64"
(2 mm), AND 1/8" (3 mm)

OPM-0506-13 STERIS INNOWAVE UNITY WASHERS /
STERILIZERS EQUIPMENT ELEVATIONS

3/4" = 1'-0"

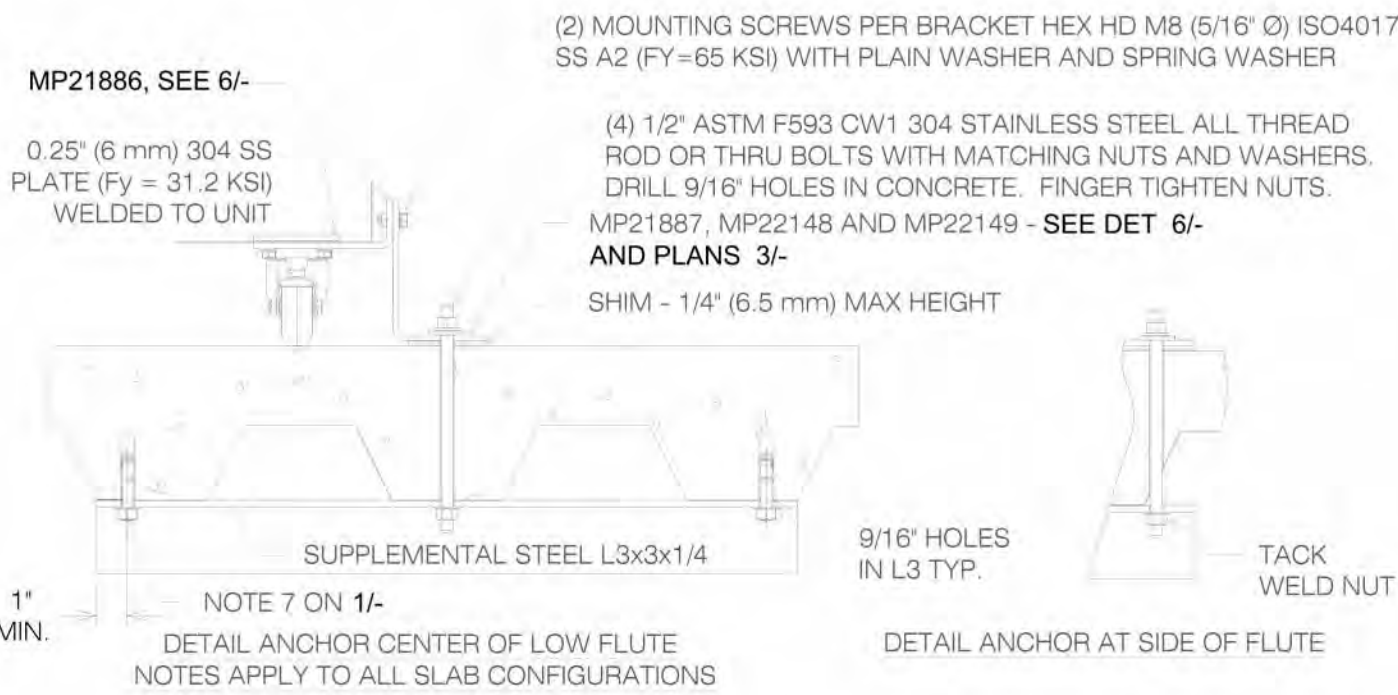
STERIS INNOWAVE UNITY WASHERS / STERILIZERS									
Equipment Data			Anchor Dimensions		Equipment Eccentricities				
Model Series	Model	Max. Water Fill	Weight (lb)	Length (in)	Depth (in)	ex (in)	ey (in)	ez (in)	
Innowave Unity	IW 523046	NO	289	37.56	16.93	0.91	0.56	20.46	
Innowave Unity	IW 523046	YES	373	37.56	16.93	1.05	0.57	23.00	
Innowave Unity	IW 523036	NO	289	37.56	16.93	0.91	0.56	20.46	
Innowave Unity	IW 523036	YES	373	37.56	16.93	1.05	0.57	23.00	
Innowave Unity	IW 523035	NO	289	37.56	16.93	0.91	0.56	20.46	
Innowave Unity	IW 523035	YES	373	37.56	16.93	1.05	0.57	23.00	
Innowave Unity	IW 523546	NO	301	37.56	16.93	0.92	0.58	20.26	
Innowave Unity	IW 523546	YES	401	37.56	16.93	1.09	0.59	23.20	
Innowave Unity	IW 523536	NO	301	37.56	16.93	0.92	0.58	20.26	
Innowave Unity	IW 523536	YES	401	37.56	16.93	1.09	0.59	23.20	

STERIS INNOWAVE UNITY WASHERS / STERILIZERS									
Equipment Data			Seismic Design Forces at Grade ^a		Seismic Design Forces at Elevated ^a				
Model Series	Model	Max. Water Fill ^b	Vu (lbs.)	Tu (lbs.)	Vu (lbs.)	Tu (lbs.)			
Innowave Unity	IW 523046	NO	64	152	336	561			
Innowave Unity	IW 523046	YES	83	218	429	799			
Innowave Unity	IW 523036	NO	64	152	336	561			
Innowave Unity	IW 523036	YES	83	218	429	799			
Innowave Unity	IW 523035	NO	64	152	336	561			
Innowave Unity	IW 523035	YES	83	218	429	799			
Innowave Unity	IW 523546	NO	67	154	349	567			
Innowave Unity	IW 523546	YES	91	237	468	870			
Innowave Unity	IW 523536	NO	67	154	349	567			
Innowave Unity	IW 523536	YES	91	237	468	870			
Innowave Unity	IW 523535	NO	67	154	349	567			
Innowave Unity	IW 523535	YES	91	237	468	870			

- WEIGHTS AND MOMENTS ARE FACTORED LOADS USING STRENGTH DESIGN AND INCLUDE THE FOLLOWING FACTORS: $D_L = 0.9$, F_{pH} AT GRADE = 1.13, F_{pH} ELEVATED = 3.0 AND $F_{pV} = 0.5$.
- TABULATED FORCES ARE PER ANCHOR AT STRENGTH DESIGN LEVEL AND INCLUDE A CONCRETE OVERSTRENGTH FACTOR $O_2 = 1.5$. FOR THROUGH BOLTS ON ELEVATED SLABS A TENSION OVERSTRENGTH FACTOR OF 1.0 IS USED.
- MAX. WATER FILL INDICATES THE ANALYSIS INCLUDES WATER WEIGHT.

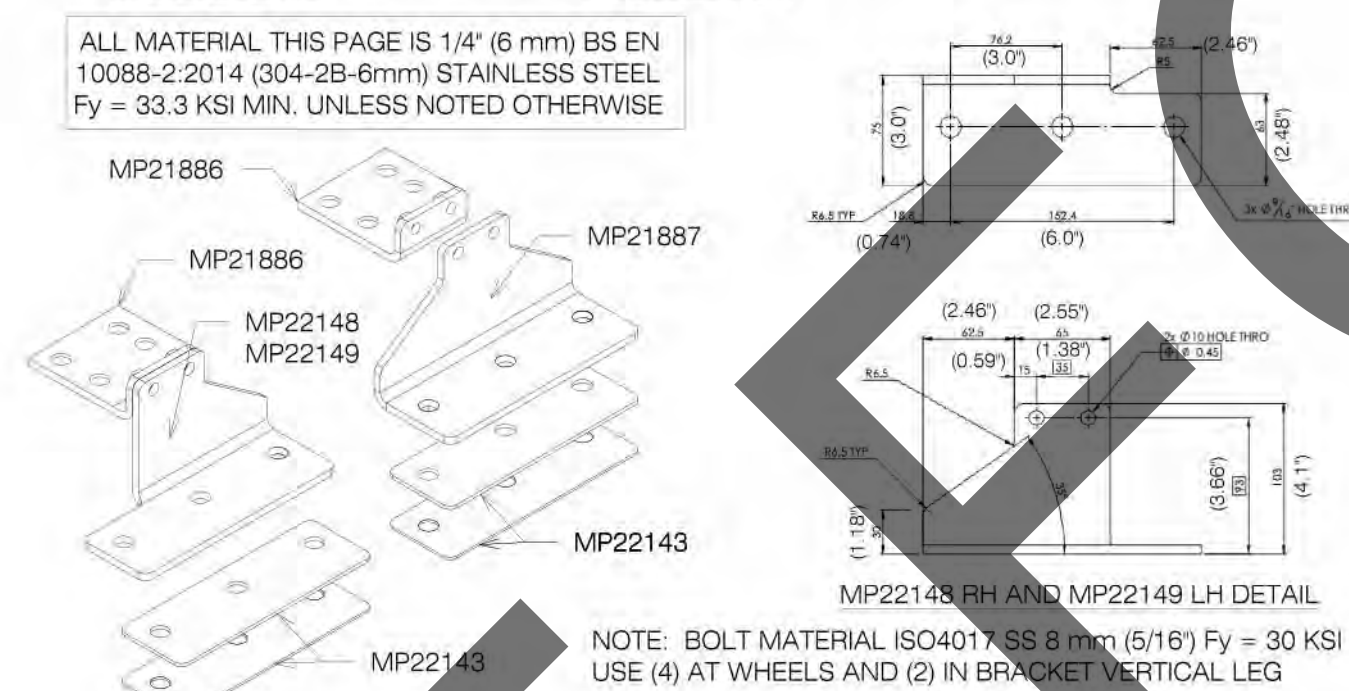
OPM-0506-13 STERIS INNOWAVE UNITY WASHERS /
STERILIZERS MISCELLANEOUS STEEL

3/4" = 1'-0"



OPM-0506-13 STERIS INNOWAVE UNITY BRACKETS

3/4" = 1'-0"



OPM-0506-13 STERIS INNOWAVE UNITY WASHERS /
STERILIZERS EQUIPMENT DIMENSIONS AND FORCES

3/4" = 1'-0"

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REFERENCE SCALE IN INCHES
0 1 2 3

PROFESSIONAL SEAL:



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architects
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PALM DESERT, CA 92260
760-327-6800

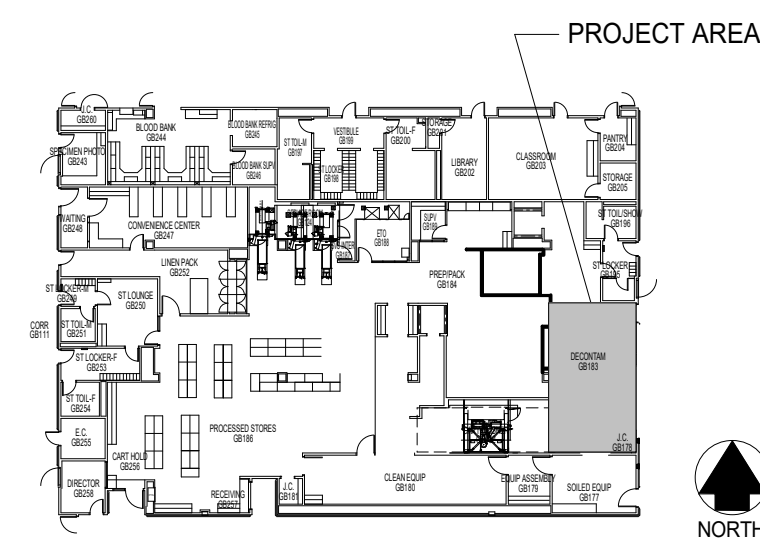
Project No. 3021028.00

DAVID WILLIAM CLARKE C-21219

PROFESSIONAL SEAL:



KEY PLAN:



Department of Health Care Access and Information

HCAI # S222316-36-00



No.	Date	Revision / Issue	REVISIONS

SHEET INFORMATION	
Issue	100% CONSTRUCTION DOCUMENTS
Date	12/28/2022
Job Number	21007618.00
Drawn	Author
Checked	Checker
Approved	

EQUIPMENT ANCHORAGE
SECTIONS AND DETAILS

SHEET NUMBER

S8.0

NAME

LEVEL NAME

10'-0"

HEIGHT ABOVE PROJECT 0'-0"

1

INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

INDICATES DIRECTION OF TRUE NORTH

PLAN OR DETAIL NUMBER

PLAN OR DETAIL NAME

1

VIEW NAME

1/8" = 1'-0"

PLAN OR DETAIL SCALE

SIM

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS

DETAIL REFERRED TO BY SECTION CUT

SIM

4 3 2 1

1

1

M101

T101

SHEET DETAIL IS LOCATED ON

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)

----- EXISTING TO BE REMOVED (SHORT DASHED PATTERN)

===== NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)

----- EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)

===== EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

TAG-E

TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1

UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

FIRE / SMOKE BARRIER DESIGNATIONS

THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.

FIRE PARTITION

1 HOUR FIRE BARRIER

APPLICABLE CODES AND STANDARDS:

2019 CALIFORNIA ADMINISTRATIVE CODE (CAC)
PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

2019 CALIFORNIA BUILDING CODE (CBC)
PART 2, TITLE 24, CCR
BASED ON THE 2018 INTERNATIONAL BUILDING CODE (IBC)

2019 CALIFORNIA ELECTRICAL CODE (CEC)
PART 3, TITLE 24, CCR
BASED ON THE 2017 NATIONAL ELECTRICAL CODE (NEC)

2019 CALIFORNIA MECHANICAL CODE (CMC)
PART 4, TITLE 24, CCR
BASED ON THE 2018 UNIFORM MECHANICAL CODE (UMC)

2019 CALIFORNIA PLUMBING CODE (CPC)
PART 5, TITLE 24, CCR
BASED ON THE 2018 UNIFORM PLUMBING CODE (UPC)

2019 CALIFORNIA ENERGY CODE (CEC)
PART 6, TITLE 24, CCR

2019 CALIFORNIA HISTORICAL BUILDING CODE (CHBC)
PART 8, TITLE 24, CCR

2019 CALIFORNIA FIRE CODE (CFC)
PART 9, TITLE 24, CCR
BASED ON THE 2018 INTERNATIONAL FIRE CODE (IFC)

2019 CALIFORNIA EXISTING BUILDING CODE (CEBC) PART 10, TITLE 24, CCR
BASED ON THE 2018 INTERNATIONAL BUILDING CODE

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN)
PART 11, TITLE 24, CCR

2019 CALIFORNIA REFERENCED STANDARDS CODE (CRSC)
PART 12, TITLE 24, CCR

2016 NFPA 72

2018 NFPA 99, HEALTHCARE FACILITIES CODE

2018 NFPA 101 LIFE SAFETY CODE

CONTRACTOR ABBREVIATION KEY

ABBR:

DESCRIPTION:

C.M.

CONSTRUCTION MANAGER

E.C.

ELECTRICAL CONTRACTOR

G.C.

GENERAL CONTRACTOR

M.C.

MECHANICAL CONTRACTOR

P.C.

PLUMBING CONTRACTOR

MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.

2. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.

3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.

4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS.

5. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING.

6. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.

7. WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.

8. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.

9. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.

10. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHARGE OVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.

11. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

TAB PRE-DEMOLITION NOTES:

1. BEFORE ANY DEMOLITION WORK IS BEGUN A COMPLETE AIR BALANCE TEST SHALL BE PERFORMED BY THE TESTING, ADJUSTING AND BALANCING (TAB) CONTRACTOR ON EXISTING AIR HANDLERS AND EXHAUST FANS SERVING THE AREAS AFFECTED BY DEMOLITION. EQUIPMENT TO BE DEMOLISHED DOES NOT REQUIRE TESTING. PROVIDE AIR BALANCE TESTING ONLY ON EQUIPMENT THAT WILL CONTINUE TO BE USED TO SERVE RENOVATED AREAS AFTER THE CONSTRUCTION PHASE IS COMPLETED.

2. PROVIDE DUCT TRAVERSE READINGS AT LOCATIONS DESIGNATED ON THE DRAWINGS BY THE "AIRFLOW MEASUREMENT SYMBOL". THOSE MEASUREMENTS SHALL BE INCLUDED IN THE PRE-DEMOLITION REPORT. DRAWINGS THAT ARE HAND-MARKED WITH THE IDENTIFIER AS MARKED ON THE DRAWINGS. READINGS SHALL BE DESIGNATED WITH THE ROOM NAME AND NUMBER AS MARKED ON THE DRAWINGS. IF FLOOR PLANS DO NOT HAVE UNIQUE ROOM NAMES AND NUMBERS, TAB CONTRACTOR SHALL INCLUDE FLOOR PLAN WITH UNIQUE NUMBER DESIGNATIONS ASSIGNED TO READINGS THAT MATCH THOSE USED IN THE FINAL PRE-DEMOLITION REPORT. DRAWINGS THAT ARE HAND-MARKED WITH RED INK ARE ACCEPTABLE, PROVIDED THEY ARE LEGIBLE.

3. IN THE EVENT A DUCT TRAVERSE LOCATION AS MARKED ON THIS PLAN IS INACCESSIBLE FOR MEASUREMENT, THE TAB CONTRACTOR SHALL PERFORM THE TRAVERSE AT AN ALTERNATE LOCATION OR SHALL TAKE MULTIPLE DUCT TRAVERSES AND/OR READINGS AS REQUIRED TO DETERMINE THE AIRFLOW READING WHERE THE TRAVERSE SYMBOL IS SHOWN. IN THE EVENT TRAVERSES ARE TAKEN AT ALTERNATE LOCATION(S), TAB CONTRACTOR SHALL INCLUDE A DRAWING THAT SHOWS THE LOCATIONS WHERE THE ACTUAL MEASUREMENTS WERE TAKEN.

4. TAKE A DUCT STATIC PRESSURE READING AT EACH LOCATION WHERE A DUCT TRAVERSE READING IS TAKEN AND INCLUDE IN THE FINAL PRE-DEMOLITION TAB REPORT.

5. TAB CONTRACTOR SHALL COMPILE AND SUBMIT FOUR COPIES OF THE FINAL PRE-DEMOLITION REPORT WITHIN 10 WORKING DAYS AFTER THE FIELD MEASUREMENTS ARE COMPLETED. FINAL TAB REPORT SHALL BE SUBMITTED FOR REVIEW TO THE ARCHITECT/ENGINEER. TESTING SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.

6. TAB CONTRACTOR SHALL PROVIDE DUCT TRAVERSE READINGS AT LOCATIONS DESIGNATED ON THE DRAWINGS BY THE "AIRFLOW MEASUREMENT SYMBOL". THOSE MEASUREMENTS SHALL BE INCLUDED IN THE POST-CONSTRUCTION REPORT AND SHALL BE DESIGNATED WITH THE IDENTIFIER AS MARKED ON THE CONSTRUCTION DRAWINGS. GRILLE AND DIFFUSER READINGS SHALL BE DESIGNATED WITH THE ROOM NAME AND NUMBER AS MARKED ON THE DRAWINGS. IF THE DRAWINGS DO NOT HAVE UNIQUE ROOM NAMES AND NUMBERS, TAB CONTRACTOR SHALL INCLUDE FLOOR PLANS WITH UNIQUE NUMBER DESIGNATIONS ASSIGNED TO TRAVERSES, GRILLES, AND DIFFUSERS THAT MATCH THOSE USED IN THE FINAL PRE-DEMOLITION REPORT. SIMILAR ROOM NAMES, NUMBERS, OR DESIGNATIONS SHALL BE USED TO SIMPLIFY THE CROSS-REFERENCING OF READINGS TAKEN BETWEEN PRE-DEMOLITION AND POST-CONSTRUCTION REPORTS.

7. BALANCING CONTRACTOR SHALL PRE-BALANCE ALL EXISTING SYSTEMS TO REMAIN PER SPECIFICATION SECTION 23 05 93. BALANCE READINGS WILL BE REQUIRED AT AIR OUTLETS AND DUCT TRAVERSES TO VERIFY EXISTING AIRFLOW TO UNAFFECTED SPACES.

VENTILATION GENERAL NOTES:

1. EXISTING AIR INLET AND OUTLET CFM SHOWN ON DRAWINGS ARE FROM PRE-BALANCE VALUES INDICATED ON AIR MANAGEMENT INDUSTRIES(AMI) HVAC SYSTEM SURVEY DATED DECEMBER 14, 2021.

2. CONTRACTOR MAY REUSE PORTIONS OF EXISTING DUCT PROVIDED SIZES AND PRESSURE CLASSES ARE CORRECT, DUCT IS THOROUGHLY CLEANED AND FREE OF DEFECTS, AND ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS ARE SEALED AS SPECIFIED FOR NEW DUCTWORK.

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.

2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.

4. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.

5. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.

6. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.

7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY, AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.

8. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.

9. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.

10. SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.

11. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.

12. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.

13. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.

14. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.

15. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.

16. MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING: DUCTWORK, PIPING, ETC.

17. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.

18. DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

ME ME COMPONENT ANCHORAGE NOTES:

1. EQUIPMENT ANCHORAGE NOTE:

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE HCAI APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTION 1616A.18 THROUGH 1616A.1.26 AND ASCE 7-16 CHAPTERS 13.26, AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.

2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARDED WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTION EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.

3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENTS IS REQUIRED TO BE RETAINED IN A MANNER APPROVED BY HCAI.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED DOT THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTES ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSFERS AND LONGITUDINAL DIRECTIONS.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OF STRUCTURAL ENGINEER DELEGATE RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

2. PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS BRACING NOTE.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENT PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED INS ASCE 7-16 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. OSHPD OPM FOR 2013 OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP): DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. SHALL COMPLY WITH THE APPLICABLE HCAI PRE-APPROVAL (OPM#) #0052-13.

PROJECT TITLE

SONIC IRRIGATION REPLACEMENTS

FOR THE

ARROWHEAD REGIONAL MEDICAL CENTER

400 N. PEPPER AVE., COLTON, CA. 92324

WBSE #: 10.10.1066

CIP #: 21-065

CAFM #: COL003

IMEG

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PROJECT # 21007618.00

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REFERENCE SCALE IN INCHES

0 1 2 3

PROFESSIONAL SEAL:

REGISTERED PROFESSIONAL ENGINEER

DAVID WILLIAM CLARKE

No. M25602

Exp. 9/30/24

MECHANICAL

STATE OF CALIFORNIA

ARCHITECT:

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Project No. 3021028.00

DAVID WILLIAM CLARKE C-21219

PROFESSIONAL SEAL:

LICENSED ARCHITECT

DAVID WILLIAM CLARKE

No. A-21219

Exp. 06/23

STATE OF CALIFORNIA

KEY PLAN:

PROJECT AREA

NORTH

Department of Health Care Access and Information

HCAI # S222316-36-00

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR

APPROVED with comments

Department of Health Care Access & Information

Office of Statewide Hospital Planning & Development

5/16/2023, 2:27:57 PM

S222316-36-00

Laura Baldrati

No.	Date	Revision / Issue	REVISIONS
1	2/8/23	HCAI COMMENT	

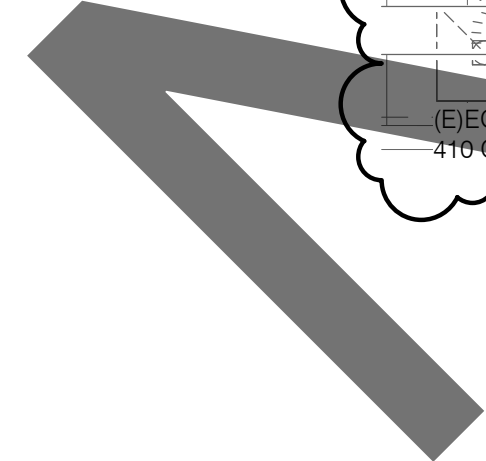
SHEET INFORMATION			
Issue	100% CONSTRUCTION DOCUMENTS		
Date	12/28/2022		
Job Number	21007618.00		
Drawn	Author		
Checked	Checker		
Approved			

MECHANICAL COVERSHEET

SHEET NUMBER

MO.1

ADA STANDARDS FOR ACCESSIBLE DESIGN



2

1/4" = 1'-0"

SHOWN ON PLAN.

2. PROVIDE MATERIALS AND LABOR FOR THE AIR HANDLING UNIT. AH-DTG.4 SUPPLY AND RETURN FANS DRIVE PACKAGE REPLACEMENT IF NECESSARY DURING ANY STEP TO ACCOMMODATE COMPLETING THE AIR BALANCING WORKS.
3. SUPPLY AIR, RETURN AIR AND EXHAUST AIR CFM INDICATED ON PLAN ARE AIR FLOW CFM INDICATED FROM THE WASHER REESTRILATION REPEACEMENT PROJECT S27000-30-00.
4. EXISTING AREA-SMOKE DETECTION AUTO-SHUT OFF SYSTEM TO REMAIN. EXISTING AIR HANDLING UNIT TO SHUT DOWN ON FIRE ALARM.

HCAI # S222316-36-00

SHEET INFORMATION

SHEET TITLE
GROUND LEVEL PLAN -

SHEET TITLE

M2.1

NAME

10'-0"

LEVEL NAME

HEIGHT ABOVE PROJECT 0'-0"

INDICATES DIRECTION OF TRUE NORTH

PLAN OR DETAIL NUMBER

PLAN OR DETAIL NAME

INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

1

VIEW NAME

1/8" = 1'-0"

PLAN OR DETAIL SCALE

SIM

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS

DETAIL REFERRED TO BY SECTION CUT

SHEET DETAIL IS LOCATED ON

M101

T101

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)

NEW

EXISTING TO BE REMOVED (SHORT DASHED PATTERN)

NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)

EXISTING

EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)

EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

TAG-E

TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1

UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

FIRE / SMOKE BARRIER DESIGNATIONS

THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.

FIRE PARTITION

1 HOUR FIRE BARRIER

CONTRACTOR ABBREVIATION KEY

ABBR.	DESCRIPTION:
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR

PLUMBING ABBREVIATION KEY

ABBR.	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
CI	CAST IRON
CO	CLEANOUT
CS	CLINICAL SINK
E	EXISTING
EE	EMERGENCY EYEWASH
ES	EMERGENCY SHOWER
ESE	EMERGENCY SHOWER/EYEWASH
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
I.E.	INVERT ELEVATION (FOR REFERENCE ONLY)
MB	MOP BASIN
MV	MIXING VALVE
NIC	NOT IN CONTRACT
SCCR	SHORT CIRCUIT CURRENT RATING
SK	SINK
TYP	TYPICAL
WC	WATER CLOSET
WCO	WALL CLEANOUT

PLUMBING SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
—MA—	MEDICAL COMPRESSED AIR
—CW—	COLD WATER - POTABLE
—D—	DRAIN
—DI—	DEIONIZED WATER
—HW—	HOT WATER - POTABLE
—HWC—	HOT WATER CIRCULATING - POTABLE
—UA—	UTILITY AIR
—NCW—	NON-POTABLE COLD WATER
—NHW—	NON-POTABLE HOT WATER
—PD—	PUMPED DISCHARGE
—PW—	PURE WATER
—SAN—	SANITARY DRAINAGE
—SCW—	SOFT COLD WATER
—SHW—	SOFT HOT WATER
—V—	VENT
→	PIPE CONTINUATION
⌒	PIPE CAP
↓	PIPE DOWN
↑	PIPE UP OR UP/DOWN
○	PIPE SERVING FIXTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN)
→	PITCH PIPE IN DIRECTION
→	DIRECTION OF FLOW IN PIPE
— —	DIELECTRIC CONNECTION
— —	UNION/FLANGE
⌒	SHUTOFF VALVE NORMALLY OPEN
⌒	SHUTOFF VALVE NORMALLY CLOSED
⌒	CHECK VALVE
⌒	BACKFLOW PREVENTER
⌒	SOLENOID VALVE
⌒	SAFETY/RELIEF VALVE
⌒	VACUUM BREAKER
⌒	THERMOMETER WITH WELL (DIAL TYPE)
⌒	THERMOMETER WITH WELL (FILLED TYPE)
⌒	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
⌒	PRESSURE REDUCING VALVE (LIQUID/GAS)
⌒	ALIGNMENT GUIDE
⌒	PIPE ANCHOR

PLUMBING SLOPE REQUIREMENTS:

BASED ON PLUMBING CODE: CPC-2019

INTERIOR:		
SANITARY WASTE:	1/4" PER FOOT	
SANITARY VENT:	NO SPECIFIC PITCH, PITCH TO FIXTURES	
DOMESTIC WATER:	NO SPECIFIC PITCH, PITCH TO FIXTURES	

PLUMBING SHEET INDEX

P0.1	PLUMBING COVERSHEET
P0.2	SCHEDULES
P0.3	SPECIFICATIONS
P0.4	SPECIFICATIONS
P2.0	UNDERFLOOR PLAN - PLUMBING
P2.1	GROUND LEVEL PLAN - PLUMBING
P3.1	DETAILS
GRAND TOTAL	7

FIRE PROTECTION LEGEND

ES	EXISTING SPRINKLER TO REMAIN. PROTECT IN PLACE.
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PLUMBING RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, PLUMBING, MEDICAL GAS.

- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
- NOT ALL EXISTING PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
- FIELD VERIFY THE AVAILABLE CLEARANCES AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
- EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE CONSTRUCTION MANAGER PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
- WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
- PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
- OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
- MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.

GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, PLUMBING, MEDICAL GAS.

- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
- DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
- COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
- REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
- ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
- EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
- IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
- SEAL ALL FLOOR, WALL, PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE.
- CAULK ALL PIPE PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
- WHERE PIPES ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
- EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
- DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
- DO NOT SUPPORT EQUIPMENT, PIPING, FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

PLUMBING GENERAL NOTES:

- THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
- CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.
- CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES.
- ALL FIXTURES SHALL CONFORM TO FEDERAL ACT S.3874
- INVERT ELEVATIONS ARE FROM EXISTING DRAWINGS AND MAY NOT BE ACCURATE. VERIFY ALL ELEVATIONS BEFORE BEGINNING WORK.
- VERIFY UNDERGROUND PIPE SIZES, INVERT ELEVATIONS, AND LOCATIONS PRIOR TO BEGINNING ANY WORK.
- REFER TO THE PLUMBING ROUGH-IN SCHEDULE FOR THE SIZES OF BRANCH PIPES TO PLUMBING FIXTURES.
- FOR CLARITY, NOT ALL VALVES HAVE BEEN SHOWN. PROVIDE SHUTOFF VALVES IN DOMESTIC WATER RHPING SERVING EACH ROOM WITH FIXTURES. ANGLE STOPS SHALL NOT BE CONSIDERED SHUTOFF VALVES.
- EXISTING CONDITIONS ON DEMOLITION PLANS ARE PROVIDED TO INDICATE THE GENERAL SCOPE OF ITEMS TO BE REMOVED. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL DEMOLITION INFORMATION.
- G.C. SHALL CUT AND PATCH EXISTING AS REQUIRED FOR NEW OR DEMOLITION WORK UNLESS NOTED OTHERWISE. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL INFORMATION.

ME COMPONENT ANCHORAGE NOTES:

- EQUIPMENT ANCHORAGE NOTE:

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE HCAI APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTION 1616A.18 THROUGH 1616A.1.26 AND ASCE 7-16 CHAPTERS 13.26, AND 30.

 - ALL PERMANENT EQUIPMENT AND COMPONENTS.
 - TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARED WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTION EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
 - TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENTS IS REQUIRED TO BE RETRAINED IN A MANNER APPROVED BY HCAI.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED DOT THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTES ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSFERS AND LONGITUDINAL DIRECTIONS.

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OF STRUCTURAL ENGINEER DELEGATE RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

- PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS BRACING NOTE.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENT PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED INS ASCE 7-16 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. OSHPD OPM FOR 2013 OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE STAR OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP): DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. SHALL COMPLY WITH THE APPLICABLE HCAI PRE-APPROVAL (OPM#) #0052-13.

APPLICABLE CODES AND STANDARDS:

- CALIFORNIA ADMINISTRATIVE CODE (CAC)
- PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
- CALIFORNIA BUILDING CODE (CBC)
- PART 2, TITLE 24, CCR
- BASED ON THE 2018 INTERNATIONAL BUILDING CODE (IBC)
- CALIFORNIA ELECTRICAL CODE (CEC)
- PART 3, TITLE 24, CCR
- BASED ON THE 2017 NATIONAL ELECTRICAL CODE (NEC)
- CALIFORNIA MECHANICAL CODE (CMC)
- PART 4, TITLE 24, CCR
- BASED ON THE 2018 UNIFORM MECHANICAL CODE (UMC)
- CALIFORNIA PLUMBING CODE (CPC)
- PART 5, TITLE 24, CCR
- BASED ON THE 2018 UNIFORM PLUMBING CODE (UPC)
- CALIFORNIA ENERGY CODE (CEC)
- PART 6, TITLE 24, CCR
- CALIFORNIA HISTORICAL BUILDING CODE (CHBC)
- PART 8, TITLE 24, CCR
- CALIFORNIA FIRE CODE (CFC)
- PART 9, TITLE 24, CCR
- BASED ON THE 2018 INTERNATIONAL FIRE CODE (IFC)
- CALIFORNIA EXISTING BUILDING CODE (CEBC) PART 10, TITLE 24, CCR
- BASED ON THE 2018 INTERNATIONAL BUILDING CODE
- CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN)
- PART 11, TITLE 24, CCR
- CALIFORNIA REFERENCED STANDARDS CODE (CRSC)
- PART 12, TITLE 24, CCR
- 2018 NFPA 72
- 2018 NFPA 99, HEALTHCARE FACILITIES CODE
- 2018 NFPA 101 LIFE SAFETY CODE

PROJECT TITLE: SONIC IRRIGATION REPLACEMENTS FOR THE ARROWHEAD REGIONAL MEDICAL CENTER 400 N. PEPPER AVE., COLTON, CA. 92324 WBSE #: 10.10.1066 CIP #: 21-065 CAFM #: COL003

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REFERENCE SCALE IN INCHES

PROFESSIONAL SEAL:

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Project No. 3021028.00

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DAVID WILLIAM CLARKE
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KEY PLAN:

PROJECT AREA

NORTH

Department of Health Care Access and Information

HCAI # S222316-36-00

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR

APPROVED with comments

Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
5/16/2023, 2:27:57 PM
S222316-36-00
Laura Baldrati

No.	Date	Revision / Issue	REVISIONS
1	2/8/23	HCAI COMMENT	

SHEET INFORMATION	
Issue	100% CONSTRUCTION DOCUMENTS
Date	12/28/2022
Job Number	21007618.00
Drawn	Author
Checked	Checker
Approved	

SHEET TITLE

PLUMBING COVERSHEET


SHEET NUMBER

P0.1

PLUMBING MATERIAL LIST

TAG NAME	DESCRIPTION	MANUFACTURER AND MODEL
FS-1	FLOOR SINK - CAST IRON BODY, NICKEL BRONZE RIM AND GRATES 1/2" ROUND, 4" BOTTOM OUTLET, MEDIUM RECEPTOR WITH STAINLESS STEEL DOME STRAINER, ACID RESISTANT COATED INTERIOR, SEEPAGE FLANGE WITH CLAMP.	SMITH (3061)
LO-1	MEDICAL GAS SERVICE OUTLET - RECESSED QUICK CONNECT TYPE WALL OUTLET, ROUGHING IN ASSEMBLY AND FINISH ASSEMBLY, MOUNTING FLANGES, PLASTER STRIKE, SECONDARY CHECK, 3/8" O.D. TYPE K COPPER INLET TUBE, LABEL IDENTIFYING SPECIFIC GAS BY NAME AND COLOR, BRUSHED STAINLESS STEEL FINISHING PLATE. REMOVATION/EXISTING PROJECTS: VERIFY THE CONNECTION STYLE OF MEDICAL GAS OUTLET IS COMPATIBLE WITH EQUIPMENT USED IN THE FACILITY. SYMBOLS FOR OUTLETS ARE AS FOLLOWS: A MEDICAL AIR	AMICO
PRV-1	PRESSURE REGULATING VALVE - SELF CONTAINED TYPE UP TO 2" SIZE, DIAPHRAGM ACTIVATED, LEAD FREE CAST COPPER-SILICON OR BRONZE BODY, STAINLESS STEEL SPRINGS, INTEGRAL REMOVABLE STAINLESS STEEL STRAINER SCREEN, STAINLESS STEEL TRIM AND SEATS FOR MAXIMUM OPERATING PRESSURE OF 300 PSIG GAUGE AND ADJUSTABLE FROM 25-75PSIG. SOLDERED INLET/OUTLET ASSE 1003 LISTED. 80 PSIG INLET PRESSURE 50 PSIG OUTLET PRESSURE 24 GPM 1 1/2" VALVE	PRESSURE REGULATING VALVE - WILKINS 500XL-YSBR-HLR

PROJECT TITLE:
SONIC IRRIGATION REPLACEMENTS
FOR THE
ARROWHEAD REGIONAL MEDICAL CENTER
400 N. PEPPER AVE., COLTON, CA. 92324
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REFERENCE SCALE IN INCHES

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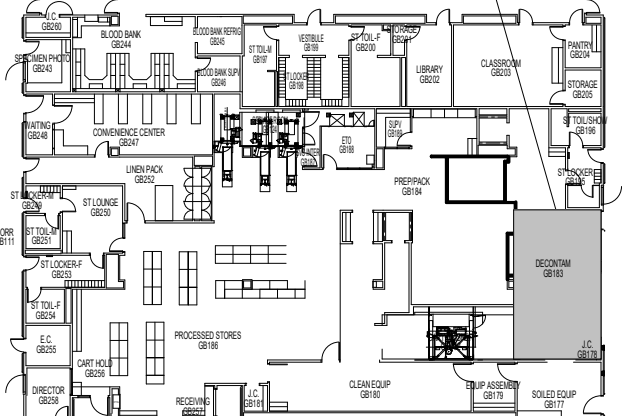
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PROFESSIONAL SEAL:



David William Clarke

KEY PLAN:



PROJECT AREA

NORTH

Department of Health Care Access and Information
HCAI # S222316-36-00



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SHEET INFORMATION	
Issue	100% CONSTRUCTION DOCUMENTS
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Checked	Checker
Approved	

SCHEDULES

SHEET NUMBER
P0.2

22 05 00 BASIC PLUMBING REQUIREMENTS

SCOPE OF WORK
THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NEW MATERIALS AS INDICATED ON THE DRAWINGS, AND/OR IN THESE SPECIFICATIONS, AND ALL ITEMS REQUIRED TO MAKE ASSOCIATED PORTION OF THE MECHANICAL WORK A FINISHED AND WORKING SYSTEM.

ALL WORK THAT WILL PRODUCE EXCESSIVE NOISE OR INTERFERENCE WITH NORMAL BUILDING OPERATIONS, AS DETERMINED BY THE OWNER/LANDLORD, SHALL BE SCHEDULED WITH THE OWNER/LANDLORD. IT MAY BE NECESSARY TO SCHEDULE SUCH WORK DURING UNOCCUPIED HOURS. THE OWNER/LANDLORD RESERVES THE RIGHT TO DETERMINE WHEN RESTRICTED CONSTRUCTION HOURS WILL BE REQUIRED. CONTRACTOR SHALL COORDINATE WITH THE LANDLORD DURING THE BIDDING PROCESS.

ALL CONTRACTORS SHALL ESTABLISH UTILITY ELEVATIONS PRIOR TO FABRICATION AND SHALL COORDINATE THEIR MATERIAL AND EQUIPMENT WITH OTHER TRADES.

THE MECHANICAL CONTRACTOR (FIRE PROTECTION/PLUMBING/HVAC/TEMPERATURE CONTROLS CONTRACTOR) SHALL:

BE RESPONSIBLE FOR ALL WIRING NOT SHOWN ON ELECTRICAL DRAWINGS BUT REQUIRED FOR MECHANICAL SYSTEMS.

VERIFY ALL EXISTING EQUIPMENT SIZES AND CAPACITIES WHERE UNITS ARE TO BE MODIFIED, MOVED, OR REPLACED. CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING NEW UNITS OR REPLACEMENT UNITS.

QUALITY ASSURANCE
THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING COMPLETE AND OPERATING SYSTEMS. THE CONTRACTOR ALSO UNDERSTANDS THAT THE CONTRACT DOCUMENTS ARE A THREE-DIMENSIONAL DIMENSIONAL REPRESENTATION OF A THREE-DIMENSIONAL OBJECT, SUBJECT TO HUMAN INTERPRETATION. THIS REPRESENTATION MAY INCLUDE IMPERFECT DATA, INTERPRETED CODES, UTILITY GUIDELINES, THREE-DIMENSIONAL CONFLICTS, AND REQUIRED FIELD COORDINATION ITEMS. SUCH DEFICIENCIES CAN BE CORRECTED WHEN IDENTIFIED PRIOR TO ORDERING MATERIAL AND STARTING INSTALLATION. THE CONTRACTOR AGREES TO CAREFULLY STUDY AND COMPARE THE INDIVIDUAL CONTRACT DOCUMENTS AND REPORT AT ONCE IN WRITING TO THE DESIGN TEAM ANY DEFICIENCIES THE CONTRACTOR MAY DISCOVER. THE CONTRACTOR FURTHER AGREES TO REQUIRE EACH SUBCONTRACTOR TO LIKEWISE STUDY THE DOCUMENTS AND REPORT AT ONCE ANY DEFICIENCIES DISCOVERED.

THE CONTRACTOR SHALL RESOLVE ALL REPORTED DEFICIENCIES WITH THE ARCHITECT/ENGINEER PRIOR TO AWARDING ANY SUBCONTRACTS, ORDERING MATERIAL, OR STARTING ANY WORK WITH THE CONTRACTOR'S OWN EMPLOYEES. ANY WORK PERFORMED PRIOR TO RECEIPT OF INSTRUCTIONS FROM THE DESIGN TEAM WILL BE DONE AT THE CONTRACTOR'S RISK.

ONLY PRODUCTS OF REPUTABLE MANUFACTURERS ARE ACCEPTABLE.

ALL CONTRACTORS AND SUBCONTRACTORS SHALL EMPLOY ONLY WORKERS SKILLED IN THEIR TRADES.

CONSTRUCTION DRAWINGS FOR THIS PROJECT HAVE BEEN PREPARED UTILIZING AUTOCAD MEP. CONTRACTORS AND SUBCONTRACTORS MAY REQUEST ELECTRONIC MEDIA FILE OF THE CONTRACT DRAWINGS. THE ELECTRONIC CONTRACT DOCUMENTS CAN BE USED FOR PREPARATION OF SHOP DRAWINGS AND AS-BUILT DRAWINGS ONLY. THE INFORMATION MAY NOT BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT.

CODES AND STANDARDS
CONFORM TO ALL STATE CODES, AND AUTHORITY HAVING JURISDICTION.

IF THE CONTRACTOR NOTES, AT THE TIME OF BIDDING, THAT ANY PARTS OF THE DRAWINGS OR SPECIFICATIONS DO NOT COMPLY WITH THE CODES OR REGULATIONS, CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER IN WRITING, REQUESTING A CLARIFICATION. IF THERE IS INSUFFICIENT TIME FOR THIS PROCEDURE, CONTRACTOR SHALL SUBMIT WITH THE PROPOSAL A SEPARATE PRICE TO MAKE THE SYSTEM COMPLY WITH THE CODES AND REGULATIONS.

ALL CHANGES TO THE SYSTEM MADE AFTER LETTING OF THE CONTRACT, TO COMPLY WITH CODES OR REQUIREMENTS OF INSPECTORS, SHALL BE MADE BY THE CONTRACTOR WITHOUT COST TO THE OWNER.

IF THERE IS A DISCREPANCY BETWEEN MANUFACTURER'S RECOMMENDATIONS AND THESE SPECIFICATIONS, THE MANUFACTURER'S RECOMMENDATIONS SHALL GOVERN.

ALL ROTATING SHAFTS AND/OR EQUIPMENT SHALL BE COMPLETELY GUARDED FROM ALL CONTACT. PARTIAL GUARDS AND/OR GUARDS THAT DO NOT MEET ALL APPLICABLE OSHA STANDARDS ARE NOT ACCEPTABLE. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THIS GUARDING IF IT IS NOT PROVIDED WITH THE EQUIPMENT SUPPLIED.

PERMITS AND FEES
PROCURE ALL NECESSARY PERMITS AND LICENSES. ABIDE BY LOCAL AND STATE LAWS, REGULATIONS, AND ORDINANCES. PAY ALL CHARGES FOR PERMITS OR LICENSES. PAY ALL FEES AND TAXES IMPOSED BY STATE, MUNICIPAL, AND OTHER REGULATORY BODIES. PAY ALL CHARGES ARISING OUT OF REQUIRED INSPECTIONS BY AN AUTHORIZED BODY. PAY ALL CHARGES ARISING OUT OF REQUIRED CONTRACT DOCUMENT REVIEWS ASSOCIATED WITH THE PROJECT AND AS INITIATED BY THE OWNER OR AUTHORIZED AGENCY/CONSULTANT.

WHERE APPLICABLE, ALL FIXTURES, EQUIPMENT AND MATERIALS SHALL BE LISTED BY UNDERWRITER'S LABORATORIES, INC. AND APPROVED BY FM GLOBAL.

SUBMITTALS
SUBMITTALS SHALL BE REQUIRED WHERE REQUIRED IN THE SPECIFICATIONS OR ON THE DRAWINGS. THE CONTRACTOR SHALL SUBMIT ELECTRONIC COPIES OF EACH SHOP DRAWING FOR REVIEW BY THE ARCHITECT/ENGINEER BEFORE RELEASING ANY EQUIPMENT FOR MANUFACTURE OR SHIPMENT.

THE CONTRACTOR SHALL THOROUGHLY REVIEW AND APPROVE ALL SHOP DRAWINGS BEFORE SUBMITTING THEM TO THE ARCHITECT/ENGINEER. CONTRACTOR SHALL CLEARLY MARK ALL DEVIATIONS FROM THE CONTRACT DOCUMENTS ON ALL SUBMITTALS. ASSEMBLE ALL SUBMITTALS IN SETS BASED ON APPLICABLE SPECIFICATION SECTION. ALL SETS SHALL BE IDENTICAL AND CONTAIN AN INDEX OF THE ITEMS ENCLOSED WITH A GENERAL TOPIC DESCRIPTION ON THE COVER. WHERE MORE THAN ONE MODEL IS SHOWN ON A MANUFACTURER'S SHEET, CLEARLY INDICATE EXACTLY WHICH ITEM AND WHICH DATA IS RELEVANT TO THE WORK. REFER TO SUBSECTIONS FOR SPECIFIC SUBMITTAL REQUIREMENTS.

PRODUCT DELIVERY, STORAGE, AND HANDLING
EXERCISE CARE IN TRANSPORTING AND HANDLING TO AVOID DAMAGE TO MATERIALS. STORE MATERIALS ON THE SITE TO PREVENT DAMAGE. KEEP MATERIALS CLEAN, DRY AND FREE FROM HARMFUL CONDITIONS. IMMEDIATELY REMOVE ANY MATERIALS THAT BECOME WET OR THAT ARE SUSPECTED OF BECOMING CONTAMINATED WITH MOLD OR OTHER ORGANISMS.

KEEP ALL BEARINGS PROPERLY LUBRICATED AND ALL BELTS PROPERLY TENSIONED AND ALIGNED.

COORDINATE THE INSTALLATION OF HEAVY AND LARGE EQUIPMENT WITH THE GENERAL CONTRACTOR AND/OR OWNER. IF THE MECHANICAL CONTRACTOR DOES NOT HAVE PRIOR DOCUMENTED EXPERIENCE IN RIGGING AND LIFTING SIMILAR EQUIPMENT, HE/SHE SHALL CONTRACT WITH A QUALIFIED LIFTING AND RIGGING SERVICE THAT HAS SIMILAR DOCUMENTED EXPERIENCE. FOLLOW ALL EQUIPMENT LIFTING AND SUPPORT GUIDELINES FOR HANDLING AND MOVING.

CONTRACTOR IS RESPONSIBLE FOR MOVING EQUIPMENT INTO THE BUILDING AND/OR SITE. CONTRACTOR SHALL REVIEW SITE PRIOR TO BID FOR PATH LOCATION AND ANY REQUIRED BUILDING MODIFICATIONS TO ALLOW MOVEMENT OF EQUIPMENT. CONTRACTOR SHALL COORDINATE HIS/HER WORK WITH OTHER TRADES.

WARRANTY
PROVIDE MINIMUM ONE-YEAR WARRANTY COMMENCING ON DATE OF FINAL ACCEPTANCE FOR ALL FIXTURES, EQUIPMENT, MATERIALS AND WORKMANSHIP. WARRANTY REQUIREMENTS SHALL EXTEND TO THE PROJECT WITHOUT COST TO OWNER, OF ALL WORK FOUND TO BE DEFECTIVE OR NONCONFORMING TO THE CONTRACT DOCUMENTS. REFER TO SUBSECTIONS FOR ADDITIONAL WARRANTY REQUIREMENTS.

MATERIAL SUBSTITUTION
WHERE SEVERAL MANUFACTURERS' NAMES ARE GIVEN, THE MANUFACTURER FOR WHICH A CATALOG NUMBER IS GIVEN IS THE BASIS OF DESIGN AND ESTABLISHES THE QUALITY REQUIRED. EQUIVALENT EQUIPMENT MANUFACTURED BY THE OTHER NAMED MANUFACTURERS MAY BE USED. CONTRACTOR SHALL ENSURE THAT ALL ITEMS SUBMITTED BY THESE OTHER MANUFACTURERS MEET ALL REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, AND FIT IN THE ALLOCATED SPACE. THE ARCHITECT/ENGINEER SHALL MAKE THE FINAL DETERMINATION OF WHETHER A PRODUCT IS EQUIVALENT.

ANY MATERIAL, ARTICLE OR EQUIPMENT OF OTHER UNNAMED MANUFACTURERS WHICH WILL ADEQUATELY PERFORM THE SERVICES AND DUTIES IMPOSED BY THE DESIGN AND IS OF A QUALITY EQUAL TO OR BETTER THAN THE EQUIPMENT IDENTIFIED BY THE DRAWINGS MAY BE USED IF APPROVAL IS SECURED IN WRITING FROM THE ARCHITECT/ENGINEER VIA ADDENDUM.

EXCAVATION, FILL, BACKFILL, COMPACTION
UNDERGROUND PIPE SHALL BE LAID IN DRY TRENCHES MAINTAINED FREE OF ACCUMULATED WATER ON A BED OF C&G FILL. PROVIDE AND OPERATE SUFFICIENT PUMPING EQUIPMENT TO MAINTAIN EXCAVATIONS, TRENCHES AND PITS FREE OF WATER. DISPOSE OF PUMPED WATER SO OPERATION AREAS AND OTHER FACILITIES ARE NOT FLOODED. PIPE LAYING SHALL FOLLOW EXCAVATING AS CLOSELY AS POSSIBLE.

OBSERVATION OF WORK
THE CONTRACTOR SHALL PROVIDE SEVEN (7) CALENDAR DAYS' NOTICE TO THE ARCHITECT/ENGINEER PRIOR TO COVERING INTERIOR PARTITIONS AND CHASES AND INSTALLING HARD OR SUSPENDED CEILINGS AND SOFFITS.

22 05 00 CONT.

ALL WORK ABOVE THE CEILINGS MUST BE COMPLETE PRIOR TO THE ARCHITECT/ENGINEER'S REVIEW.

IN ORDER TO PREVENT THE FINAL JOBSITE OBSERVATION FROM OCCURRING TOO EARLY, THE CONTRACTOR SHALL REVIEW THE COMPLETION STATUS OF THE PROJECT AND CERTIFY IN WRITING THAT THE JOB IS READY FOR THE FINAL JOBSITE OBSERVATION.

PROJECT CLOSEOUT
SUBMIT THE FOLLOWING: OPERATION AND MAINTENANCE MANUALS INCLUDING BOUND COPIES OF APPROVED SHOP DRAWINGS, RECORD DOCUMENTS INCLUDING REPRODUCIBLE DRAWINGS COMPLETED IN AUTOCAD, SPARE PARTS AND EXTRA MATERIALS IN QUANTITIES SPECIFIED IN THESE SPECIFICATIONS, AND INSPECTION BY STATE BOILER INSPECTOR.

OPERATION AND MAINTENANCE MANUALS
SUBMIT AN ELECTRONIC COPY OF THE O&M MANUALS TO THE OWNER. OPERATION AND MAINTENANCE DATA SHALL CONSIST OF WRITTEN INSTRUCTIONS FOR THE CARE, MAINTENANCE, AND OPERATION OF THE EQUIPMENT AND SYSTEMS. INSTRUCTION BOOKS, CARDS, MANUALS FURNISHED WITH THE EQUIPMENT SHALL BE INCLUDED.

ALL TEXT SHALL BE SEARCHABLE AND BOOKMARKS SHALL BE USED, DIVIDING INFORMATION BY SPECIFICATION SECTION.

RECORD DOCUMENTS
SUBMIT AT THE JOB SITE A SEPARATE AND COMPLETE SET OF MECHANICAL DRAWINGS AND SPECIFICATIONS WITH ALL CHANGES MADE TO THE SYSTEMS CLEARLY AND PERMANENTLY MARKED IN COMPLETE DETAIL. MARK DRAWINGS TO INDICATE APPROVED SUBSTITUTIONS; CHANGE ORDERS, AND ACTUAL EQUIPMENT AND MATERIALS USED. ALL CHANGE ORDERS, RFI RESPONSES, CLARIFICATIONS AND OTHER SUPPLEMENTAL INSTRUCTIONS SHALL BE MARKED ON THE DOCUMENTS. RECORD DOCUMENTS THAT MERELY REFERENCE THE EXISTENCE OF THE ABOVE ITEMS ARE NOT ACCEPTABLE. RECORD CHANGES DAILY AND KEEP THE MARKED DRAWINGS AVAILABLE FOR THE ARCHITECT/ENGINEER'S EXAMINATION AT ANY NORMAL WORK TIME.

UPON COMPLETING THE JOB, AND BEFORE FINAL PAYMENT IS MADE, PROVIDE REPRODUCIBLE DRAWINGS COMPLETED IN AUTOCAD TO THE ARCHITECT/ENGINEER.

CLEANING
THOROUGHLY CLEAN ALL EQUIPMENT AND SYSTEMS PRIOR TO THE OWNER'S FINAL ACCEPTANCE OF THE PROJECT. CLEAN ALL FOREIGN PAINT, GREASE, OIL, DIRT, LABELS, STICKERS, ETC. FROM ALL EQUIPMENT. REMOVE ALL RUBBISH, DEBRIS, ETC., ACCUMULATED DURING CONSTRUCTION FROM THE PREMISES. END OF SECTION

22 05 05 DEMOLITION FOR REMODELING

THE DRAWINGS ARE INTENDED TO INDICATE THE GENERAL SCOPE OF WORK AND DO NOT SHOW EVERY PIPE, OR PIECE OF EQUIPMENT THAT MUST BE REMOVED. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY CONDITIONS PRIOR TO SUBMITTING A BID.

WHERE WALLS, CEILINGS, ETC., ARE SHOWN AS BEING REMOVED ON GENERAL DRAWINGS, THE CONTRACTOR SHALL REMOVE ALL MECHANICAL EQUIPMENT, DEVICES, FIXTURES, PIPING, SYSTEMS, ETC., FROM THE REMOVED AREA.

WHERE CEILINGS, WALLS, PARTITIONS, ETC., ARE TEMPORARILY REMOVED AND REPLACED BY OTHERS, THIS CONTRACTOR SHALL REMOVE, STORE, AND REPLACE EQUIPMENT, DEVICES, FIXTURES, PIPES, SYSTEMS, ETC.

VERIFY THAT ABANDONED UTILITIES SERVE ONLY ABANDONED EQUIPMENT OR FACILITIES. EXTEND SERVICES TO FACILITIES OR EQUIPMENT THAT SHALL REMAIN IN OPERATION FOLLOWING DEMOLITION.

COORDINATE WORK WITH ALL OTHER CONTRACTORS AND THE OWNER. SCHEDULE REMOVAL OF EQUIPMENT TO AVOID CONFLICTS.

THIS CONTRACTOR SHALL VERIFY ALL EXISTING EQUIPMENT SIZES AND CAPACITIES WHERE EQUIPMENT IS SCHEDULED TO BE REPLACED OR MODIFIED, PRIOR TO ORDERING NEW EQUIPMENT.

BID SUBMITTAL SHALL MEAN THE CONTRACTOR HAS VISITED THE PROJECT SITE AND VERIFIED EXISTING CONDITIONS AND SCOPE OF WORK.

PREPARATION
DISCONNECT MECHANICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.

PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON OPERATING EQUIPMENT, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.

DEMOLITION AND EXTENSION OF EXISTING MECHANICAL WORK
DEMOLISH AND EXTEND EXISTING MECHANICAL WORK UNDER PROVISIONS OF DIVISION 2 AND THIS SECTION. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION. REMOVE ABANDONED PIPING TO SOURCE OF SUPPLY AND/OR MAIN LINES.

REMOVE EXPOSED ABANDONED PIPES, INCLUDING ABANDONED PIPES ABOVE ACCESSIBLE CEILINGS. CUT PIPES ABOVE CEILINGS, BELOW FLOORS AND BEHIND WALLS. CAP REMAINING LINES. REPAIR BUILDING CONSTRUCTION TO MATCH ORIGINAL. REMOVE ALL CLAMPS, HANGERS, SUPPORTS, ETC. ASSOCIATED WITH PIPE AND DUCT REMOVAL.

REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.

EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING INSTALLATIONS, OR AS SPECIFIED.

CUTTING AND PATCHING
THIS CONTRACTOR IS RESPONSIBLE FOR ALL PENETRATIONS OF EXISTING CONSTRUCTION REQUIRED TO COMPLETE THE WORK OF THIS PROJECT. PENETRATIONS IN EXISTING CONSTRUCTION SHOULD BE REVIEWED CAREFULLY PRIOR TO PROCEEDING WITH ANY WORK.

PENETRATIONS SHALL BE NEAT AND CLEAN WITH SMOOTH AND/OR FINISHED EDGES. CORE DRILL WHERE POSSIBLE FOR CLEAN OPENING.

REPAIR EXISTING CONSTRUCTION AS REQUIRED AFTER PENETRATION IS COMPLETE TO RESTORE TO ORIGINAL CONDITION. USE SIMILAR MATERIALS AND MATCH ADJACENT CONSTRUCTION UNLESS OTHERWISE NOTED OR AGREED TO BY THE ARCHITECT/ENGINEER PRIOR TO START OF WORK.

FLOOR SLABS MAY CONTAIN CONDUIT SYSTEMS. THIS CONTRACTOR IS RESPONSIBLE FOR TAKING ANY MEASURES REQUIRED TO ENSURE NO CONDUITS OR OTHER SERVICES ARE DAMAGED. THIS INCLUDES X-RAY OR SIMILAR NON-DESTRUCTIVE MEANS.

THIS CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INCURRED IN REPAIR, RELOCATIONS, OR REPLACEMENT OF ANY CABLES, CONDUITS, OR OTHER SERVICES IF DAMAGED WITHOUT PROPER INVESTIGATION.

CLEANING AND REPAIR
CLEAN AND REPAIR EXISTING MATERIALS AND EQUIPMENT WHICH REMAIN OR ARE TO BE REUSED. CLEAN ALL SYSTEMS ADJACENT TO PROJECT WHICH ARE AFFECTED BY THE DUST AND DEBRIS CAUSED BY THIS CONSTRUCTION.

MECHANICAL ITEMS REMOVED AND NOT RELOCATED REMAIN THE PROPERTY OF THE LANDLORD/OWNER. CONTRACTOR SHALL PLACE ITEMS RETAINED BY THE LANDLORD/OWNER IN A LOCATION COORDINATED WITH THE LANDLORD/OWNER. THE CONTRACTOR SHALL DISPOSE OF MATERIAL THE LANDLORD/OWNER DOES NOT WANT TO REUSE OR RETAIN FOR MAINTENANCE PURPOSES.

SPECIAL REQUIREMENTS

REVIEW LOCATIONS OF ALL NEW PENETRATIONS IN EXISTING FLOOR SLABS OR WALLS. DETERMINE CONSTRUCTION TYPE AND REVIEW FOR POSSIBLE INTERFERENCES. BRING ALL CONCERNS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING.

END OF SECTION

22 07 19 PLUMBING PIPING INSULATION

SECTION INCLUDES
PIPING INSULATION

QUALITY ASSURANCE
APPLICATOR: COMPANY SPECIALIZING IN PIPING INSULATION APPLICATION WITH FIVE YEARS MINIMUM EXPERIENCE.

MATERIALS: FLAME SPREAD/SMOKE DEVELOPED RATING OF 25/50 IN ACCORDANCE WITH ASTM E84, NFPA 255, OR UL 723 (WHERE REQUIRED).

SUBMITTALS
SUBMIT SHOP DRAWINGS PER SECTION 22/23 05 00. INCLUDE PRODUCT DESCRIPTION, LIST OF MATERIALS AND THICKNESS FOR EACH SERVICE, AND LOCATIONS.

INSULATION MATERIALS

TYPE B: ELASTOMERIC CELLULAR FOAM; ANSI/ASTM C534; FLEXIBLE PLASTIC; 0.27 MAXIMUM "K" VALUE AT 75F, 25/50 FLAME SPREAD/SMOKE DEVELOPED RATING WHEN TESTED IN ACCORDANCE WITH ASTM E84 (UL 723). MAXIMUM 1" THICK PER LAYER WHERE MULTIPLE LAYERS ARE SPECIFIED.

VAPOR BARRIER JACKETS
KRAFT REINFORCED FOIL VAPOR BARRIER WITH SELF-SEALING ADHESIVE JOINTS. BEACH PUNCTURE RESISTANCE RATIO OF AT LEAST 50 UNITS. TENSILE STRENGTH: .35 PSI MINIMUM. SINGLE, SELF-SEAL ACRYLIC ADHESIVE ON LONGITUDINAL JACKET LAPS AND BUTT STRIPS.

PREPARATION
INSTALL INSULATION AFTER PIPING HAS BEEN TESTED. PIPE SHALL BE CLEAN, DRY AND FREE OF RUST BEFORE APPLYING INSULATION.

GENERAL INSTALLATION REQUIREMENTS
INSTALL MATERIALS PER MANUFACTURER'S INSTRUCTIONS, BUILDING CODES AND INDUSTRY STANDARDS.

CONTINUE INSULATION WITH VAPOR BARRIER THROUGH PENETRATIONS. THIS APPLIES TO ALL INSULATED PIPING. MAINTAIN FIRE RATING OF ALL PENETRATIONS.

NEATLY FINISH INSULATION AT SUPPORTS, PROTRUSIONS, AND INTERRUPTIONS.

SECTION INCLUDES
PIPING INSULATION
INSULATION JACKETS

CONTINUE INSULATION WITH VAPOR BARRIER THROUGH PENETRATIONS. THIS APPLIES TO ALL INSULATED PIPING. MAINTAIN FIRE RATING OF ALL PENETRATIONS.

END OF SECTION

22 10 00 PLUMBING PIPING

SECTION INCLUDES
PIPE AND PIPE FITTINGS
VALVES
DOMESTIC WATER PIPING SYSTEM
SANITARY DRAINAGE AND VENT PIPING SYSTEM
STORM DRAINAGE PIPING SYSTEM

QUALITY ASSURANCE
VALVES: MANUFACTURER'S NAME AND PRESSURE RATING MARKED ON VALVE BODY. REMANUFACTURED VALVES ARE NOT ACCEPTABLE.

WELDING MATERIALS AND PROCEDURES: CONFORM TO ASME CODE AND APPLICABLE STATE LABOR REGULATIONS.

WELDERS CERTIFICATION: IN ACCORDANCE WITH ANSI/ASME SEC 9 OR ANSI/AWS D1.1.

PIPING, FITTINGS, VALVES, AND FLUX FOR POTABLE WATER SYSTEMS: ALL COMPONENTS SHALL BE LEAD FREE PER FEDERAL ACT S.3874, REDUCTION OF LEAD IN DRINKING WATER ACT.

SUBMITTALS
SUBMIT PRODUCT DATA UNDER PROVISIONS OF SECTION 22 05 00.

COLD WATER - POTABLE AND NON-POTABLE
HOT WATER - POTABLE AND NON-POTABLE
DESIGN PRESSURE: 175 PSI
MAXIMUM DESIGN TEMPERATURE: 200F.

PIPING - ALL SIZES:
1. TUBING: TYPE L HARD DRAWN SEAMLESS COPPER TUBE, ASTM B88.
2. JOINTS: SOLDER WITH 100% LEAD-FREE SOLDER AND FLUX, ASTM B32.
3. FITTINGS: WROUGHT COPPER SOLDER JOINT, ANSI B16.22.

DOMESTIC WATER BALL VALVES:
3" AND UNDER, 150 PSI SATURATED STEAM, 600 PSI CWP, FULL PORT, SCREWED OR SOLDER ENDS (ACCEPTABLE ONLY IF RATED FOR SOLDERING IN LINE WITH 470F MELTING POINT OF LEAD-FREE SOLDER). BRONZE BODY OF A COPPER ALLOY CONTAINING LESS THAN 15% ZINC, STAINLESS STEEL BALL AND TRIM, TEFLON SEATS AND SEALS.

DOMESTIC WATER CHECK VALVES:
2" AND UNDER, 125# STEAM @ 406F, 200# CWP @ 150F, SCREWED, BRONZE, HORIZONTAL SWING.

2-1/2" THRU 12", 200# CWP, DOUBLE DISC WATER TYPE, BRONZE OR IRON BODY, BRONZE TRIM, METAL-TO-METAL OR VITON SEAT, 316 SS SHAFT, INCONEL 600 SPRING. M

DOMESTIC WATER STRAINERS:
BRONZE BODY, SCREWED ENDS, SCREWED COVER, 150 PSI S @ 350F, 200 PSI CWP @ 150F.

2-1/2" THRU 8", BRONZE BODY, FLANGED ENDS, FLANGED COVER, 150# STEAM, 225# CWP. MUELLER STEAM SPECIALTY CO. #851.

DEIONIZED WATER
DESIGN PRESSURE: 150 PSI
MAXIMUM DESIGN TEMPERATURE: 140F.

PIPE ALL SIZES: SCHEDULE 80 POLYVINYLIDENE FLUORIDE PVDF FROM VIRGIN, UNPIGMENTED RESIN MEETING ASTM D3222. PIPE WILL MEET ALL DIMENSIONAL TOLERANCES OF ASTM D2447.

JOINTS: FUSED TYPE.
FITTINGS: POLYVINYLIDENE FLUORIDE PVDF, SCHEDULE 80, SOCKET FUSED FITTINGS, ASTM 2657.

22 10 00 PLUMBING PIPING CONT.

SANITARY DRAINAGE (ABOVE GROUND)
SANITARY INDIRECT DRAINAGE (ABOVE GROUND)
SANITARY VENT (ABOVE GROUND)
DESIGN PRESSURE: GRAVITY
MAXIMUM DESIGN TEMPERATURE: 180F.

PIPING - ALL SIZES:
1. PIPE AND FITTINGS: STANDARD WEIGHT NO-HUB CAST IRON SOIL PIPE, ASTM A74, CISPI TRADEMARK.
2. JOINTS: HEAVY DUTY, NEOPRENE SLEEVE GASKET, ASTM C-584, 300 SERIES STAINLESS STEEL SHIELD, CLAMP, AND SCREWS WITH AT LEAST FOUR SCREW TYPE CLAMPS, FM 1680 OR ASTM C1540 -
3. ADAPTERS: TRANSITIONS FROM CAST IRON SOIL PIPE TO OTHER PIPE MATERIALS WITH MANUFACTURED PARTS. HEAVY DUTY NEOPRENE SLEEVE GASKET, ASTM C-584, 300 SERIES STAINLESS STEEL SHIELD, CLAMP, AND SCREWS WITH NOT LESS THAN FOUR SCREW TYPE CLAMPS, FM 1680 OR ASTM C1540.

COMPRESSED UTILITY AIR
DESIGN PRESSURE: 150
MAXIMUM DESIGN TEMPERATURE: 80F.

PIPING - ALL SIZES:
TUBING: TYPE L HARD DRAWN SEAMLESS COPPER TUBE, ASTM B88.
JOINTS: SOLDER WITH 100% LEAD-FREE SOLDER AND FLUX, ASTM B32.
FITTINGS: WROUGHT COPPER SOLDER JOINT, ANSI B16.22.

UNIONS
COPPER PIPE - WROUGHT COPPER FITTING - GROUND JOINT.
BLACK STEEL (SCHEDULE 40) PIPE - MALLEABLE IRON, GROUND JOINT, 150 PSI, BRONZE TO BRONZE SEAT.

STRAINERS
UNLESS OTHERWISE INDICATED, STRAINERS SHALL BE Y-PATTERN AND HAVE STAINLESS STEEL SCREENS WITH PERFORATIONS AS FOLLOWS:

PIPE SIZE 1/4"- 2" 2-1/2" - 10" 12" - 16"
AIR 1/32" 3/64" 1/16"
WATER 3/64" 1/16" 1/8"
LUBE, HYDRAULIC, NO. 6 FUEL AND WASTE OILS 3/16" 3/16" 3/16"

FURNISH PIPE NIPPLE WITH SHUTOFF VALVE TO BLOW DOWN ALL STRAINER SCREENS. USE BRONZE BODY STRAINERS IN COPPER PIPING AND IRON BODY STRAINERS IN FERROUS PIPING.

RELIEF VALVES
(DOMESTIC HOT WATER) PRESSURE AND TEMPERATURE RELIEF, CAST BRONZE BODY AND INTERNAL PARTS, STAINLESS STEEL SPRING, TEST LEVER, THREADED INLET AND OUTLET. MAXIMUM SETTING OF 150 PSI AND 210F TEMPERATURE. CAPTITIES ASME CERTIFIED AND LABELED. ACCEPTABLE MANUFACTURERS: CASH SERIES FV, WATTS #40, #120, #N240, #340.

BALANCING VALVES
RATED FOR 125 PSI WORKING PRESSURE AND 250F OPERATING TEMPERATURE. TAPS FOR DETERMINING FLOW WITH A PORTABLE METER. POSITIVE SHUTOFF VALVES FOR EACH METER CONNECTION. MEMORY FEATURE, TIGHT SHUTOFF, AND A PERMANENT PRESSURE DROP BETWEEN 1" AND 2" WATER COLUMN AT FULL FLOW WITH VALVE 100% OPEN. FURNISH WITH MOLDED, REMOVABLE INSULATION COVERS.

PROVIDE A NOMOGRAPH TO DETERMINE FLOW FROM METER READING (AND VALVE POSITION ON UNITS WHICH SENSE PRESSURE ACROSS A VALVE). GRAPH SHALL EXTEND BELOW THE SPECIFIED MINIMUM FLOW.

FLOW RATE OF 0.5 GPM OR LARGER: VALVES IN COPPER PIPING SHALL BE BRASS OR BRONZE. ACCEPTABLE MANUFACTURERS: FLOW DESIGN "ACCUSETTER", PRESO "B", ARMSTRONGS "CVB", BELL & GOSSETT "CIRCUIT SETTER PLUS", GRISWOLD "QUICKSET", GERAND "BALVALVE VENTURI" OR NIBCO GLOBE STYLE BALANCING VALVE.

FLOW RATE LESS THAN 0.5 GPM: VALVES IN COPPER PIPING SHALL BE BRASS OR BRONZE. CV VALUE SHALL BE LESS THAN 1.0 WHEN VALVE IS COMPLETELY OPEN, AND MINIMUM BALANCEABLE FLOW RATE SHALL NOT EXCEED 0.1 GPM WITH A METER READING OF AT LEAST 2.5 FEET. ACCEPTABLE MANUFACTURERS: BELL & GOSSETT "CIRCUIT SETTER RP", FLOW DESIGN, PRESO, ARMSTRONG, GRISWOLD, GERAND, OR NIBCO BALANCING VALVE.

MANUFACTURER SHALL SIZE BALANCING VALVES FOR THE SCHEDULED FLOW RATE. FLOW RATE SHALL BE MEASURABLE ON MANUFACTURER'S STANDARD METERS.

DRAIN VALVES
DRAIN VALVES SHALL BE SHUTOFF VALVES AS SPECIFIED FOR THE INTENDED SERVICE WITH ADDED 3/4" MALE HOSE THREAD OUTLET AND CAP.

CONNECTIONS BETWEEN DISSIMILAR METALS
CONNECTIONS BETWEEN DISSIMILAR METALS SHALL BE INSULATING DIELECTRIC TYPES THAT PROVIDE A WATER GAP BETWEEN THE CONNECTED METALS, AND THAT EITHER ALLOW NO METAL PATH FOR ELECTRON TRANSFER OR THAT PROVIDE A WIDE WATER GAP LINED WITH A NON-CONDUCTIVE MATERIAL TO IMPEDE ELECTRON TRANSFER THROUGH THE WATER PATH.

JOINTS SHALL BE RATED FOR THE TEMPERATURE, PRESSURE, AND OTHER CHARACTERISTICS OF THE SERVICE IN WHICH THEY ARE USED, INCLUDING TESTING PROCEDURE.

ALUMINUM, IRON, STEEL, BRASS, COPPER, BRONZE, AND STAINLESS STEEL ARE COMMONLY USED AND REQUIRE ISOLATION FROM EACH OTHER WITH THE FOLLOWING EXCEPTIONS:

1. IRON, STEEL, AND STAINLESS STEEL CONNECTED TO EACH OTHER.
2. BRASS, COPPER, AND BRONZE CONNECTED TO EACH OTHER.
3. BRASS OR BRONZE VALVES AND SPECIALTIES CONNECTED TO STEEL, IRON, OR STAINLESS STEEL IN CLOSED SYSTEMS. WHERE TWO OR MORE BRASS OR BRONZE ITEMS OCCUR TOGETHER, THEY SHALL BE CONNECTED WITH BRASS NIPPLES.
DIELECTRIC PROTECTION IS REQUIRED AT CONNECTIONS TO EQUIPMENT OF A MATERIAL DIFFERENT THAN THE PIPING.

SCREWED JOINTS (ACCEPTABLE UP TO 2" SIZE):
1. DIELECTRIC WATERWAY RATED FOR 300 PSI CWP AND 225F.
2. ACCEPTABLE MANUFACTURERS: ELSTER GROUP CLEARFLOW FITTINGS, VICTAULIC SERIES 47, GRINNELL SERIES 407, MATCO-NORCA.

FLANGED JOINTS (ANY SIZE):
1. USE 1/8" MINIMUM THICKNESS, NON-CONDUCTIVE, FULL-FACE GASKETS.
2. EMPLOY ONE-PIECE MOLDED SLEEVE-WASHER COMBINATIONS TO BREAK THE ELECTRICAL PATH THROUGH THE BOLTS.
3. SLEEVE-WASHERS ARE REQUIRED ON ONE SIDE ONLY, WITH SLEEVES MINIMUM 1/32" THICK AND WASHERS MINIMUM 1/8" THICK.
4. INSTALL STEEL WASHERS ON BOTH SIDES OF FLANGES TO PREVENT DAMAGE TO THE SLEEVE, WASHER.
5. SEPARATE SLEEVES AND WASHERS MAY BE USED ONLY IF THE SLEEVES ARE MANUFACTURED TO EXACT LENGTHS AND INSTALLED CAREFULLY SO THE SLEEVES MUST EXTEND PARTIALLY PAST EACH STEEL WASHER WHEN TIGHTENED.
6. ACCEPTABLE MANUFACTURERS: EPCO, CENTRAL PLASTICS, PIPELINE SEAL AND INSULATOR, F. H. MALONEY, OR CALPICO.

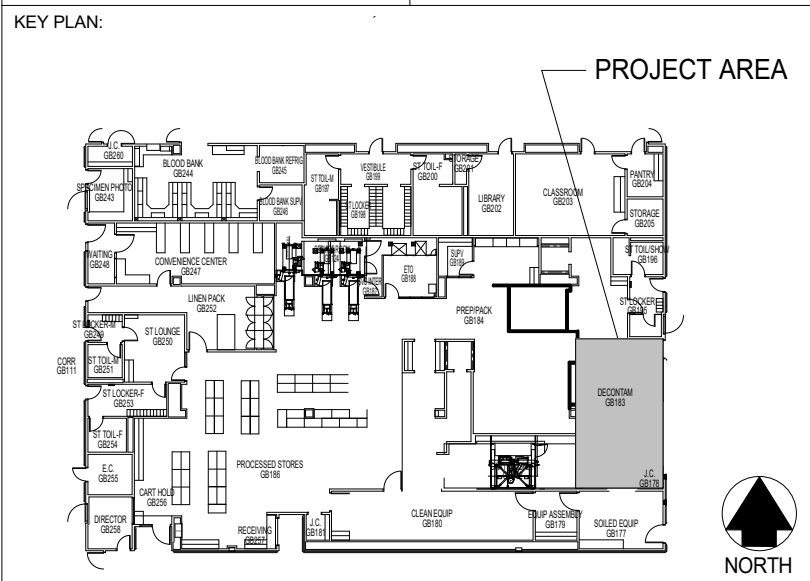
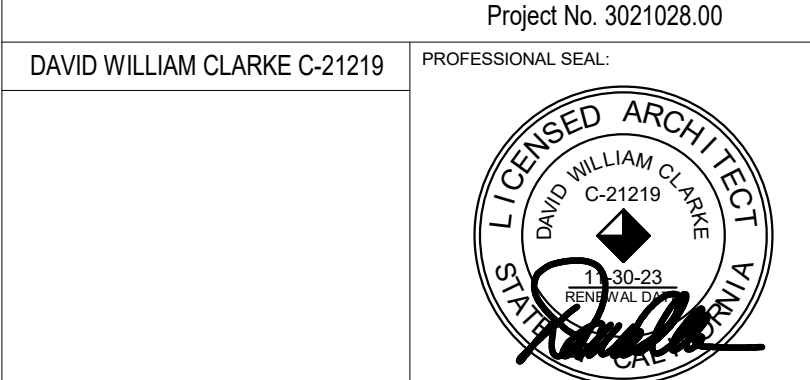
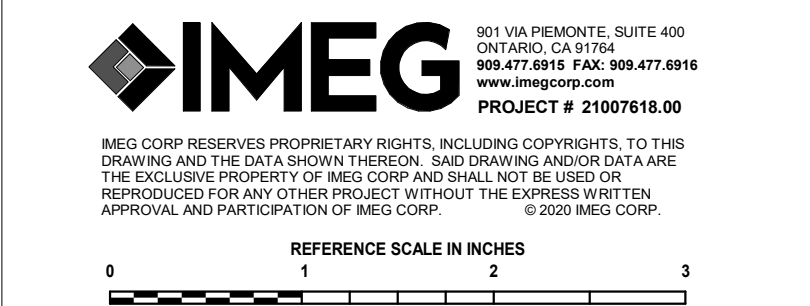
LOCK OUT TRIM
PROVIDE LOCK OUT TRIM FOR ALL QUARTER TURN SHUTOFF VALVES OPENING TO ATMOSPHERE AND INSTALLED IN DOMESTIC WATER PIPING OVER 120F, IN COMPRESSED AIR PIPING, AND AS INDICATED ON THE DRAWINGS.

VALVE CONNECTIONS
PROVIDE ALL CONNECTIONS TO MATCH PIPE JOINTS. VALVES SHALL BE SAME SIZE AS PIPE UNLESS NOTED OTHERWISE.

INSTALLATION PREPARATION
INSTALL PRODUCTS PER MANUFACTURER'S RECOMMENDATIONS. REAM PIPE AND TUBE ENDS. REMOVE BURRS. BEVEL PLAIN END FERROUS PIPE. REMOVE SCALE AND DIRT, ON INSIDE AND OUTSIDE, BEFORE ASSEMBLY. CONNECT TO EQUIPMENT WITH FLANGES OR UNIONS. USE ONLY PIPING MATERIALS RATED FOR THE MAXIMUM TEMPERATURE OF THE APPLICATION, E.G., DO NOT USE PVC FOR DISHWASHER DRAINAGE OR PIPING THAT RECEIVES BOILER BLOWDOWN.

EXISTING BUILDING SEWERS OR BUILDING DRAINS WHICH ARE SHOWN ON THE DOCUMENTS TO BE REUSED SHALL BE INSPECTED AND RECORDED BY CLOSED CIRCUIT TELEVISION FOR THEIR CONDITION. REPORT FINDINGS BACK TO THE ARCHITECT, ENGINEER, AND OWNER BEFORE PROCEEDING WITH WORK SO ANY NECESSARY REWORK CAN TAKE PLACE IF NEEDED.

PROJECT TITLE
SONIC IRRIGATION REPLACEMENTS
FOR THE
ARROWHEAD REGIONAL MEDICAL CENTER
400 N. PEPPER AVE., COLTON, CA. 92324
WSB #: 10.10.1066
CIP #: 21-065
CAFM #: COL003



22 10 00 PLUMBING PIPING CONT.

TESTING PIPING
SANITARY DRAINAGE:
SANITARY VENT:
STORM DRAINAGE:
1. TEST ALL PIPING AS REQUIRED IN 2019 CPC

HOT WATER - POTABLE AND NON-POTABLE:
COLD WATER - POTABLE AND NON-POTABLE:
TEMPERED WATER - POTABLE AND NON-POTABLE:
SERVICE WATER:
1. TEST ALL PIPING AS REQUIRED IN 2019 CPC

CLEANING PIPING
BEFORE ASSEMBLING PIPE SYSTEMS, REMOVE ALL LOOSE DIRT, SCALE, OIL AND OTHER FOREIGN MATTER ON INTERNAL OR EXTERNAL SURFACES BY MEANS CONSISTENT WITH GOOD PIPING PRACTICE SUBJECT TO APPROVAL OF THE ARCHITECT/ENGINEER'S REPRESENTATIVE. BLOW CHIPS AND BURRS FROM MACHINERY OR THREAD CUTTING OPERATION OUT OF PIPE BEFORE ASSEMBLY. WIPE CUTTING OIL FROM INTERNAL AND EXTERNAL SURFACES.

DURING FABRICATION AND ASSEMBLY, REMOVE SLAG AND WELD SPATTER FROM BOTH INTERNAL AND EXTERNAL JOINTS BY PEENING, CHIPPING AND WIRE BRUSHING.

PRIOR TO BLOWING OR FLUSHING ERECTED PIPING SYSTEMS, DISCONNECT ALL INSTRUMENTATION AND EQUIPMENT, OPEN WIDE ALL VALVES, AND BE CERTAIN ALL STRAINER SCREENS ARE IN PLACE.

ALL WATER PIPING:
1. FLUSH ALL PIPING USING FAUCETS, FLUSH VALVES, ETC. UNTIL THE FLOW IS CLEAN.
2. AFTER FLUSHING, THOROUGHLY CLEAN ALL INLET STRAINERS, AERATORS, AND OTHER SUCH DEVICES.
3. IF NECESSARY, REMOVE VALVES TO CLEAN OUT ALL FOREIGN MATERIAL.

GENERAL INSTALLATION REQUIREMENTS
PROVIDE DIELECTRIC CONNECTIONS BETWEEN DISSIMILAR METALS. ROUTE PIPING IN ORDERLY MANNER AND MAINTAIN GRADIENT. INSTALL TO CONSERVE BUILDING SPACE. GROUP PIPING WHENEVER PRACTICAL AT COMMON ELEVATIONS. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR EQUIPMENT. SLOPE WATER PIPING AND ARRANGE TO DRAIN AT LOW POINTS.

WHERE PIPE SUPPORTS ARE WELDED TO STRUCTURAL BUILDING FRAMING, SCRAPE, BRUSH CLEAN, AND APPLY ONE COAT OF ZINC RICH PRIMER TO WELDS. SEAL PIPES PASSING THROUGH EXTERIOR WALLS WITH A WALL SEAL PER SECTION 22 05 29. PROVIDE SCHEDULE 40 GALVANIZED SLEEVE AT LEAST 2 PIPE SIZES LARGER THAN THE PIPE.

ALL NON-POTABLE OUTLETS SHALL BE CLEARLY MARKED WITH A PERMANENTLY AFFIXED LAMINATED SIGN WITH 3/8" HIGH LETTERING SAYING "NON-POTABLE WATER NOT FOR HUMAN CONSUMPTION." SIGN SHALL HAVE BLACK LETTERING ON A YELLOW BACKGROUND.

ALL VERTICAL PIPE DROPS TO SINKS OR OTHER EQUIPMENT INSTALLED BELOW THE CEILING SHALL BE ROUTED WITHIN A WALL CAVITY, UNLESS SPECIFICALLY NOTED OTHERWISE TO BE SURFACE MOUNTED. FOR RENOVATION PROJECTS, THIS CONTRACTOR IS RESPONSIBLE FOR OPENING AND PATCHING EXISTING WALLS FOR INSTALLATION OF PIPING. WALL PATCHING SHALL MATCH EXISTING CONDITION.

INSTALLATION REQUIREMENTS IN ELECTRICAL ROOMS:
1. DO NOT INSTALL PIPING OR OTHER EQUIPMENT ABOVE ELECTRICAL SWITCHBOARDS OR PANELBOARDS. THIS INCLUDES A DEDICATED SPACE EXTENDING 25 FEET FROM THE FLOOR TO THE STRUCTURAL CEILING WITH WIDTH AND DEPTH EQUAL TO THE EQUIPMENT.

VALVES/FITTINGS AND ACCESSORIES:
1. INSTALL SHUTOFF VALVES THAT PERMIT THE ISOLATION OF EQUIPMENT/FIXTURES IN EACH ROOM WITHOUT ISOLATING ANY OTHER ROOM OR PORTION OF THE BUILDING. INDIVIDUAL FIXTURE ANGLE STOPS DO NOT MEET THIS REQUIREMENT. EXCEPTION: BACK-TO-BACK ROOMS IN NO MORE THAN TWO ADJACENT ROOMS.
2. PROVIDE CLEARANCE FOR INSTALLATION OF INSULATION AND ACCESS TO VALVES AND FITTINGS.
3. PROVIDE ACCESS DOORS FOR CONCEALED VALVES AND FITTINGS.
4. INSTALL VALVE STEMS UPRIGHT OR HORIZONTAL, NOT INVERTED.
5. PROVIDE ONE PLUG VALVE WRENCH FOR EVERY TEN PLUG VALVES 2" AND SMALLER, MINIMUM OF ONE.
6. PROVIDE EACH PLUG VALVE 2 1/2" AND LARGER WITH A WRENCH WITH SET SCREW.
6. INSTALL BALANCING VALVES WITH STRAIGHT, UNOBSTRUCTED PIPE SECTION BOTH UPSTREAM AND DOWNSTREAM AS REQUIRED, PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

DRAINING AND VENTING
UNLESS OTHERWISE INDICATED ON THE DRAWINGS, ALL HORIZONTAL WATER AND COMPRESSED AIR LINES, INCLUDING BRANCHES, SHALL PITCH 1" IN 40 FEET 12 TO LOW POINTS FOR COMPLETE DRAINAGE, REMOVAL OF CONDENSATE AND VENTING.

MAINTAIN ACCURATE GRADE WHERE PIPES PITCH OR SLOPE FOR VENTING AND DRAINAGE. NO PIPES SHALL HAVE POCKETS DUE TO CHANGES IN ELEVATION.

PROVIDE DRAIN VALVES AT ALL LOW POINTS OF WATER PIPING SYSTEMS FOR COMPLETE OR SECTIONALIZED DRAINING.

PROVIDE DRIP LEGS AT LOW POINTS AND AT THE BASE OF ALL RISERS IN COMPRESSED AIR PIPES. DRIP LEGS SHALL BE FULL LINE SIZE ON PIPES THROUGH 4" AND AT LEAST 4", BUT NOT LESS THAN HALF LINE SIZE OVER 4". DRIP LEGS SHALL BE 12" MINIMUM LENGTH, CAPPED WITH A REDUCER TO A DRAIN VALVE.

USE ECCENTRIC REDUCING FITTINGS ON HORIZONTAL RUNS WHEN CHANGING SIZE OF PIPES FOR PROPER DRAINAGE AND VENTING. INSTALL COMPRESSED AIR AND GRAVITY DRAIN PIPES WITH BOTTOM OF PIPE AND ECCENTRIC REDUCERS IN A CONTINUOUS LINE; ALL OTHER LIQUID LINES WITH TOP OF PIPE AND ECCENTRIC REDUCERS IN A CONTINUOUS LINE.

PROVIDE AIR VENTS AT HIGH POINTS AND WHEREVER ELSE REQUIRED TO ELIMINATE AIR IN ALL WATER PIPING SYSTEMS.

INSTALL AIR VENTS IN ACCESSIBLE LOCATIONS. IF NECESSARY TO TRAP AND VENT AIR IN A REMOTE LOCATION, INSTALL A 1/8" PIPE FROM THE TAPPING LOCATION TO AN ACCESSIBLE LOCATION AND TERMINATE WITH A VENTING DEVICE.

ALL VENT AND DRAIN PIPING SHALL BE OF SAME MATERIALS AND CONSTRUCTION FOR THE SERVICE INVOLVED.

BRANCH CONNECTIONS
FOR DOMESTIC WATER AND VENT SYSTEMS ONLY. MAKE BRANCH CONNECTIONS WITH STANDARD TEE OR CROSS FITTINGS OF THE TYPE REQUIRED FOR THE SERVICE.

REDUCERS ARE GENERALLY NOT SHOWN. WHERE PIPE SIZES CHANGE AT TEE, THE TEE SHALL BE THE SIZE OF THE LARGEST PIPE SHOWN CONNECTING TO IT.

DO NOT USE DOUBLE WYE OR DOUBLE COMBINATION WYE AND EIGHTH BEND DWV FITTINGS IN HORIZONTAL PIPING.

BRANCH CONNECTIONS FROM THE HEADERS AND MAINS MAY BE MECHANICALLY FORMED USING AN EXTRACTION DEVICE. THE BRANCH PIPING CONNECTION SHALL BE BRAZED CONNECTION FOR THE FOLLOWING SERVICES ONLY:
1. DOMESTIC WATER PIPING ABOVE GRADE.

FURTHER LIMIT USE OF MECHANICALLY FORMED FITTINGS AS FOLLOWS:
1. MUST HAVE AT LEAST SAME PRESSURE RATING AS THE MAIN.
2. MAIN MUST BE TYPE K OR L COPPER TUBING.
3. PERMANENT MARKING SHALL INDICATE INSERTION DEPTH AND ORIENTATION.
4. BRANCH PIPE SHALL CONFORM TO THE INNER CURVE OF THE PIPING MAIN.
5. MAIN MUST BE 1" OR LARGER.
6. BRANCH MUST BE 3/4" OR LARGER.

22 10 00 PLUMBING PIPING CONT.

BRANCH CONNECTIONS FROM HEADERS AND MAINS MAY BE CUT INTO BLACK STEEL PIPE USING FORGED WELD ON FITTINGS.

FORGED WELD-ON FITTINGS ARE LIMITED AS FOLLOWS:
1. MUST HAVE AT LEAST SAME PRESSURE RATING AS THE MAIN.
2. MAIN MUST BE 2 1/2" OR LARGER.
3. BRANCH LINE IS AT LEAST TWO PIPE SIZES UNDER MAIN SIZE.

JOINING OF PIPE
SOLDER JOINTS:
MAKE UP JOINTS WITH 100% LEAD-FREE SOLDER, ASTM B32. CUT TUBING SO ENDS ARE PERFECTLY SQUARE AND REMOVE ALL BURRS INSIDE AND OUTSIDE. THOROUGHLY CLEAN SOCKETS OF FITTINGS AND ENDS OF TUBING TO REMOVE ALL OXIDE, DIRT AND GREASE JUST PRIOR TO SOLDERING. APPLY FLUX EVENLY, BUT SPARINGLY, OVER ALL SURFACES TO BE JOINED. HEAT JOINTS UNIFORMLY SO SOLDER WILL FLOW TO ALL MATED SURFACES. WIPE EXCESS SOLDER, LEAVING A UNIFORM FILLET AROUND CUP OF FITTING. FLUX SHALL BE NON, ACID TYPE.

SOLDER END VALVES MAY BE INSTALLED DIRECTLY IN THE PIPING SYSTEM IF THE ENTIRE VALVE IS SUITABLE FOR USE WITH 470F MELTING POINT SOLDER. REMOVE DISCS AND SEALS DURING SOLDERING IF THEY ARE NOT SUITABLE FOR 470F.

FUSION WELD:
MAKE ALL FIELD JOINTS OF PIPE SQUARE AND TRUE USING A PIPE CUTTER DESIGNED FOR PLASTIC PIPE. MAKE SURE PROPER HEATING HEADS ARE USED FOR MALE AND FEMALE SITUATIONS. BEVEL THE LEADING EDGE OF PIPE SECTION WITH A 45° CHAMFER. UTILIZE A FUSION WELDING TOOL RECOMMENDED AND/OR PROVIDED BY THE PIPE AND FITTING MANUFACTURER. NOT RECOMMENDED FOR TEMPERATURES BELOW 40°F. FOLLOW THE MANUFACTURER'S COLD WEATHER INSTALLATION PROCEDURES. ALL INSTALLERS SHALL UNDERGO TRAINING PROVIDED BY THE MANUFACTURER OR MANUFACTURER'S REPRESENTATIVE. FOLLOW ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS.

COMPRESSION GASKET JOINTS - SANITARY PIPE AND STORM PIPE:
JOINT SHALL BE ONE PIECE DOUBLE SEAL COMPRESSION TYPE GASKET MADE SPECIFICALLY FOR JOINING CAST IRON SOIL PIPE. GASKET SHALL BE NEOPRENE, PERMITTING JOINT TO FLEX AS MUCH AS 5 DEGREES WITHOUT LOSS OF SEAL. GASKET SHALL BE EXTRA HEAVY WEIGHT CLASS, CONFORMING TO ASTM C_564.

DISINFECTION OF DOMESTIC WATER PIPING SYSTEM
DISINFECT WATER PIPE AS REQUIRED BY THE 2019 CPC

22 10 30 PLUMBING SPECIALTIES

SECTION INCLUDES
CLEANOUTS
TRAPS
TRAP PRIMERS
BACKFLOW PREVENTERS
WATER HAMMER ARRESTERS

QUALITY ASSURANCE
FOR EACH PRODUCT SPECIFIED, PROVIDE COMPONENTS BY SAME MANUFACTURER THROUGHOUT.

SUBMITTALS
SUBMIT PRODUCT DATA UNDER PROVISIONS OF SECTION 22 05 00. INCLUDE SIZES, ROUGH-IN REQUIREMENTS, AND FINISHES.

CLEANOUTS
PROVIDE CLEANOUTS AS SHOWN AND SPECIFIED ON THE DRAWINGS AS WELL AS REQUIRED BY CODE.

COORDINATE FLOOR CLEANOUT COVER WITH SURROUNDING FLOOR FINISH. PROVIDE EITHER SOLID, RECESSED FOR TILE OR TERRAZZO OR CARPET MARKER AS APPLICABLE.

CLEANOUTS ON EXPOSED PIPES SHALL BE CAST IRON WITH HEAVY DUTY CAST BRASS PLUG WITH RAISED HEAD.

CLEANOUT SHALL BE SAME SIZE AS THE PIPE UP TO 6" AND 6" FOR LARGER PIPES.

TRAPS
PROVIDE ALL INDIVIDUAL CONNECTIONS TO THE SANITARY SYSTEM WITH P-TRAPS, EXCEPT WHERE SUCH DRAINS DISCHARGE DIRECTLY INTO A PROPERLY TRAPPED COLLECTION BASIN OR PUMP. UNLESS OTHERWISE SPECIFIED OR SHOWN, TRAPS SHALL BE:
1. CHROMIUM PLATED CAST BRASS WHEN USED WITH PLUMBING FIXTURES OR WHEN INSTALLED EXPOSED IN FINISHED SPACES.
2. INSULATED AT ACCESSIBLE LAVATORIES.
3. CAST IRON, DEEP-SEAL PATTERN WHERE CONCEALED ABOVE CEILING, BELOW GRADE OR IN UNFINISHED AREAS.

ALL TRAPS SHALL HAVE ACCESSIBLE, REMOVABLE CLEANOUTS, EXCEPT WHERE INSTALLED ON FLOOR DRAINS WITH REMOVABLE STRAINERS.

EACH TRAP SHALL BE COMPLETELY FILLED WITH WATER AT THE END OF CONSTRUCTION BUT BEFORE BUILDING SPACE TURNOVER TO THE OWNER. ALL FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. SHALL BE FILLED WITH WATER AND A 1/2" MINIMUM LAYER OF MINERAL OIL.

WATER HAMMER ARRESTERS
PROVIDE WATER HAMMER ARRESTERS AS SHOWN AND SPECIFIED ON THE DRAWINGS AS WELL AS REQUIRED BY CODE.

ANSI A112.26.1: SIZED AND LOCATED IN ACCORDANCE WITH PDI WH_201. PRECHARGED FOR OPERATION BETWEEN -100F AND 300F AND MAXIMUM 250 PSIG WORKING PRESSURE.

INSTALLATION AND APPLICATION
COORDINATE CONSTRUCTION TO RECEIVE DRAINS AT REQUIRED INVERT ELEVATIONS.

INSTALL ALL ITEMS PER MANUFACTURER'S INSTRUCTIONS.

WATER HAMMER ARRESTERS:
INSTALL WATER HAMMER ARRESTERS IN ACCESSIBLE LOCATIONS. PROVIDE ACCESS DOORS AS REQUIRED. COORDINATE TYPE WITH ARCHITECT/ENGINEER/OWNER.

WATER HAMMER ARRESTORS SHALL BE INSTALLED IN COLD AND HOT WATER LINES UPSTREAM OF ALL PLUMBING FIXTURES OR EQUIPMENT, WITH A QUICK ACTING VALVE OR MULTIPLE QUICK ACTING VALVES. QUICK ACTING VALVES SHALL BE DEFINED AS SOLENOID ACTUATED VALVES, MANUAL FLUSH VALVES, SENSOR ACTIVATED FAUCETS AND FLUSH VALVES, SQUEEZE HANDLE SPRAY FAUCETS, AND OTHER SIMILAR TYPE VALVES.

INSTALL MULTIPLE WATER HAMMER ARRESTORS IN TOILET GROUP BRANCH PIPING GREATER THAN 20 FEET IN DEVELOPED LENGTH FROM THE COLD AND HOT WATER MAINS.

CLEANOUTS:
PROVIDE CLEANOUTS WHERE SHOWN ON THE DRAWINGS AND AS REQUIRED BY CODE, BUT IN NO CASE FARTHER APART THAN 100 FEET APART.

PROVIDE CLEANOUTS AT BASES OF ALL SANITARY AND STORM RISERS AS SHOWN ON THE DRAWINGS AND AS REQUIRED BY CODE.


EXTEND CLEANOUTS TO THE FLOOR WITH LONG SWEEP ELBOWS.

INSTALL A FULL SIZE, TWO-WAY CLEANOUT WITHIN 5 FEET OF THE FOUNDATION INSIDE OR OUTSIDE OF BUILDING.

EXTEND CLEANOUTS TO FINISHED FLOOR OR WALL SURFACE. LUBRICATE THREADED CLEANOUT PLUGS WITH GRAPHITE AND LINSEED OIL. ENSURE CLEARANCE AT CLEANOUTS FOR RODDING OF DRAINAGE SYSTEM.

WALL CLEANOUTS SHALL BE INSTALLED ABOVE THE FLOW LINE OF THE PIPE THEY SERVE, BUT NO LESS THAN 12" ABOVE THE FINISHED FLOOR.

PROJECT TITLE:
SONIC IRRIGATION REPLACEMENTS
FOR THE
ARROWHEAD REGIONAL MEDICAL CENTER
400 N. PEPPER AVE., COLTON, CA. 92324
WBSE #: 10.10.1066
CIP #: 21-065
CAFM #: COL003




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PROJECT # 21007618.00

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0 1 2 3

PROFESSIONAL SEAL:



ARCHITECT:

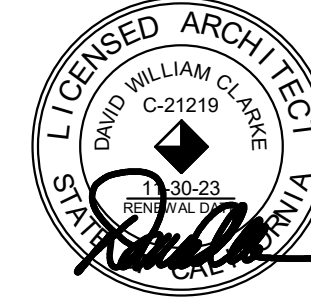


73121 FRED WARING DR. STE. 200
PALM DESERT, CA 92260
760-327-6800

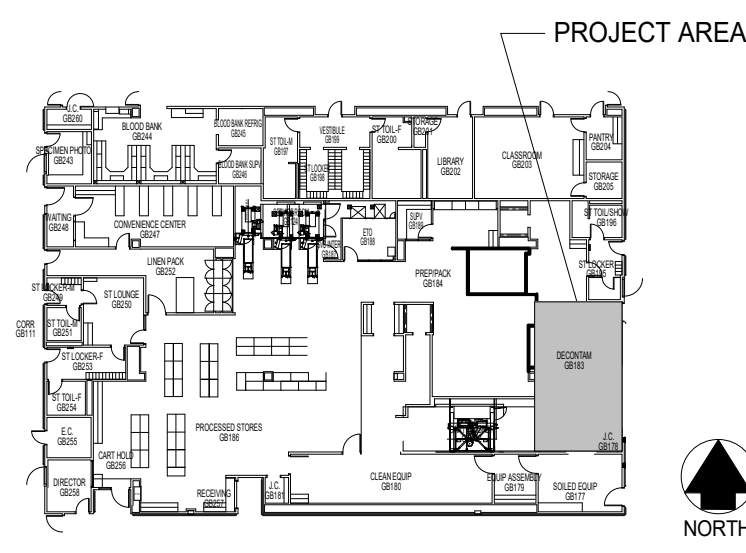
Project No. 3021028.00

DAVID WILLIAM CLARKE C-21219

PROFESSIONAL SEAL:



KEY PLAN:



PROJECT AREA

NORTH

Department of Health Care Access and Information
HCAI # S222316-36-00

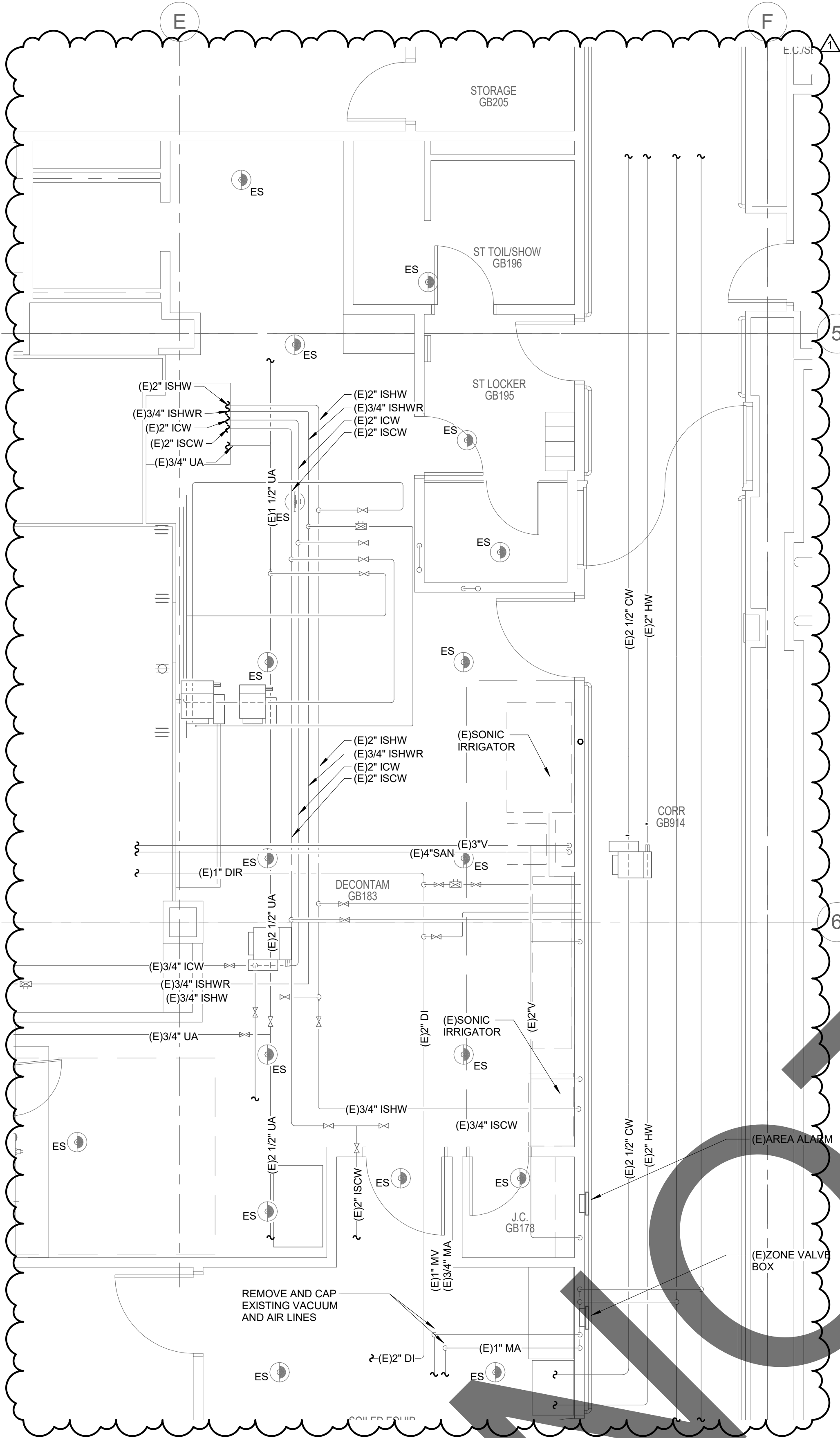


REVIEWED IN ACCORDANCE WITH
THE REQUIREMENTS OF T24, CCR
APPROVED
with comments
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
5/16/2023, 2:27:57 PM
S222316-36-00
Laura Baldrati

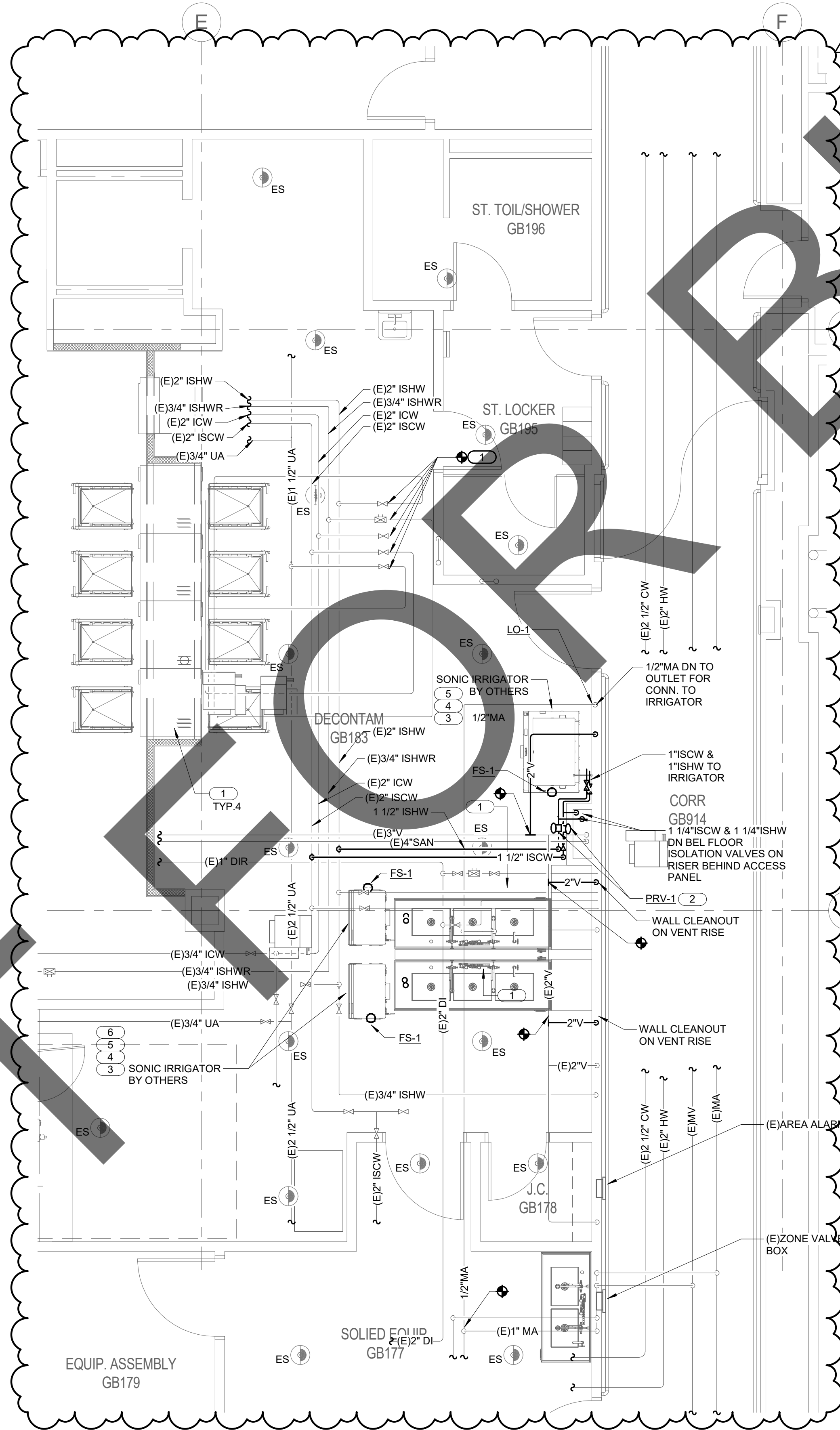
No.	Date	Revision / Issue	REVISIONS

SHEET INFORMATION	
Issue	100% CONSTRUCTION DOCUMENTS
Date	12/28/2022
Job Number	21007618.00
Drawn	Author
Checked	Checker
Approved	

SHEET TITLE
SPECIFICATIONS



1 GROUND LEVEL DEMOLITION PLAN - PLUMBING
1/4" = 1'-0"

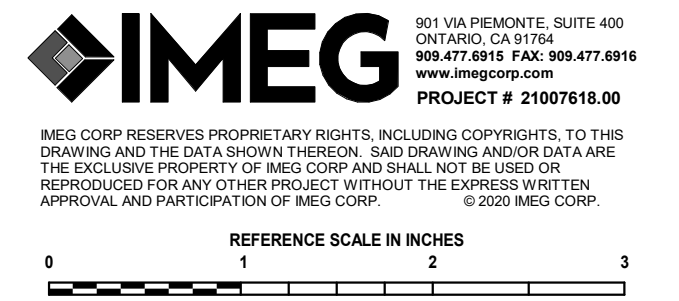


2 GROUND LEVEL PLAN - PLUMBING
1/4" = 1'-0"

KEY NOTES

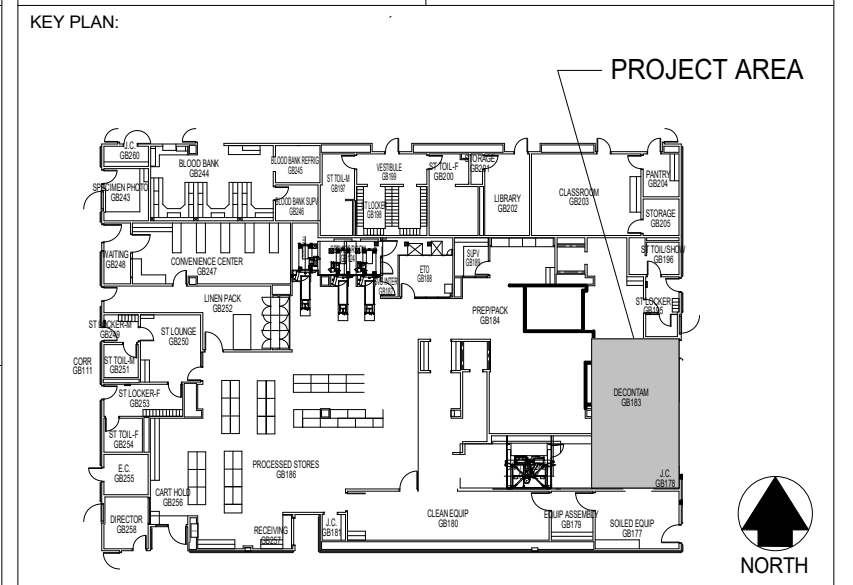
1. TRIPLE SINKS AND PASS THRU WASHERS INSTALLED IN SEPARATE HOA PROJECT. ARMC SPD STERILIZATION WASHERS - HCAI # S22234-1-36-00.
2. PRESSURE REDUCING STATION TO SERVE SONIC IRRIGATOR ON 60\"/>

PROJECT TITLE: **SONIC IRRIGATION REPLACEMENTS**
FOR THE
ARROWHEAD REGIONAL MEDICAL CENTER
400 N. PEPPER AVE., COLTON, CA. 92324
WBSE #: 10.10.1066
CIP #: 21-065
CAFM #: COL003



ARCHITECT:
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DAVID WILLIAM CLARKE C-21219
PROFESSIONAL SEAL:
LICENCED ARCHITECT
DAVID WILLIAM CLARKE
C-21219
JULY 2012-2023



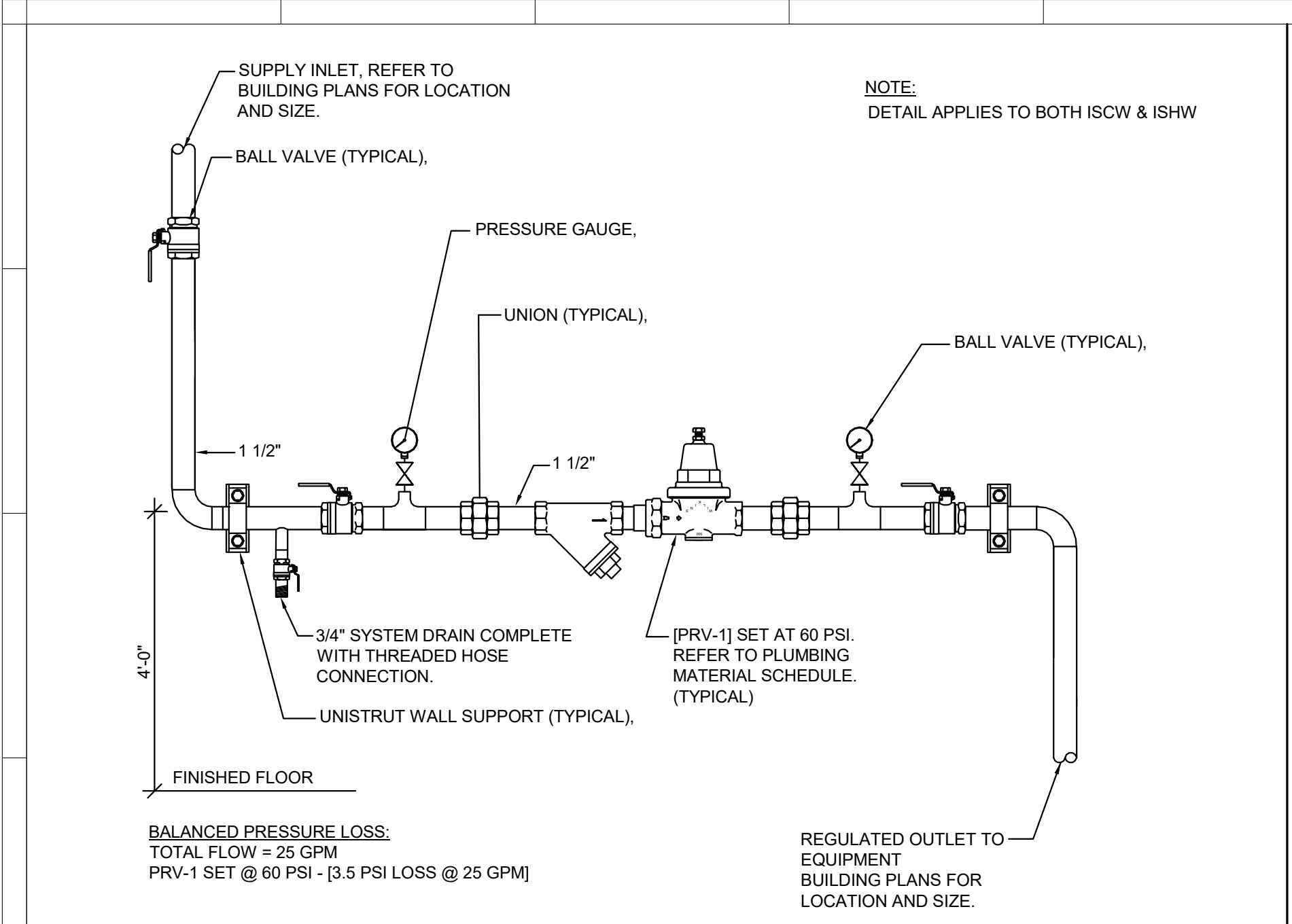
Department of Health Care Access and Information
HCAI # S222316-36-00



No.	Date	Revision / Issue	REVISIONS
1	2/8/23	HCAI COMMENT	

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Checked	Checker
Approved	

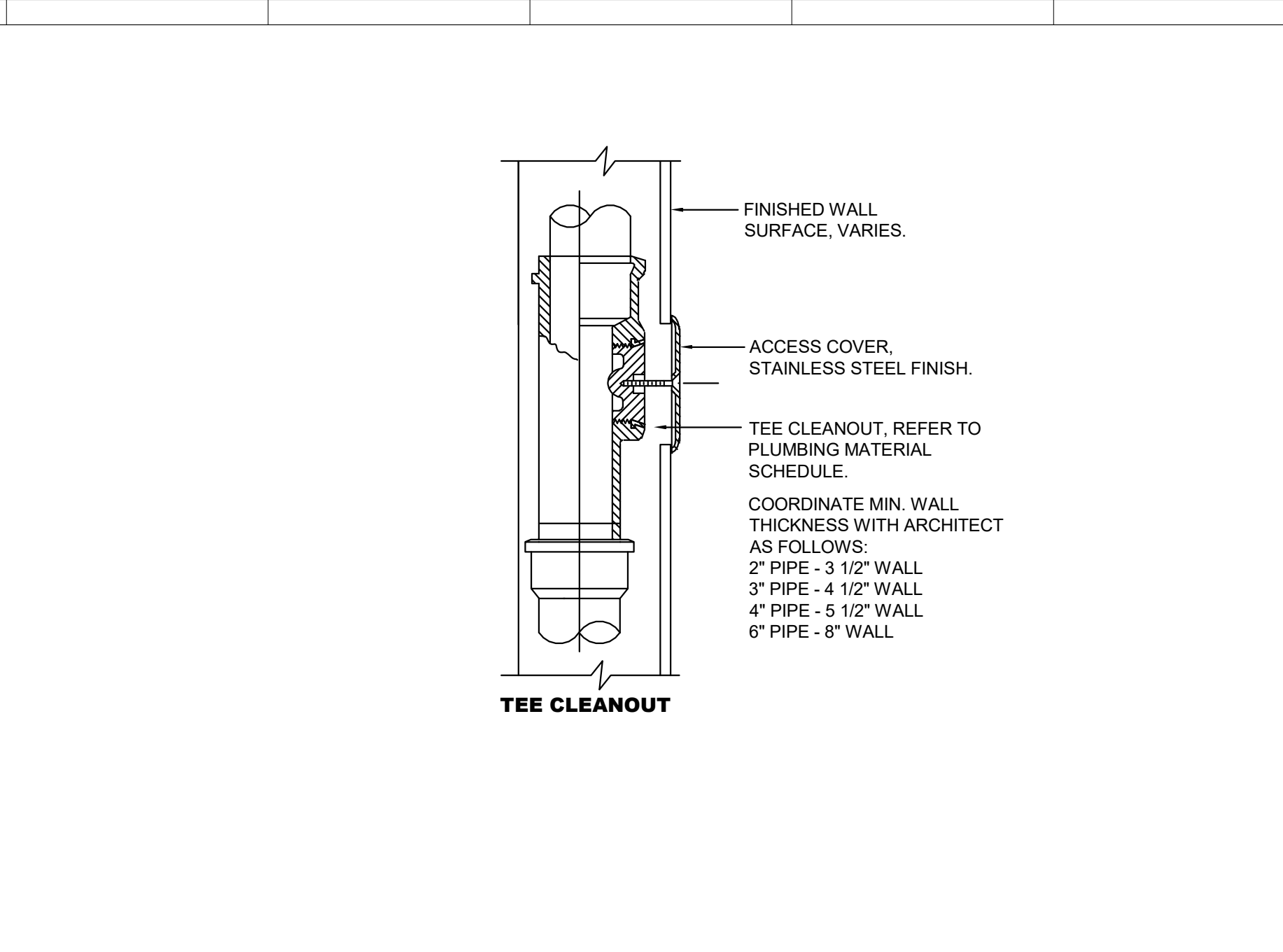
GROUND LEVEL PLAN - PLUMBING



PRESSURE REDUCING STATION

NTS

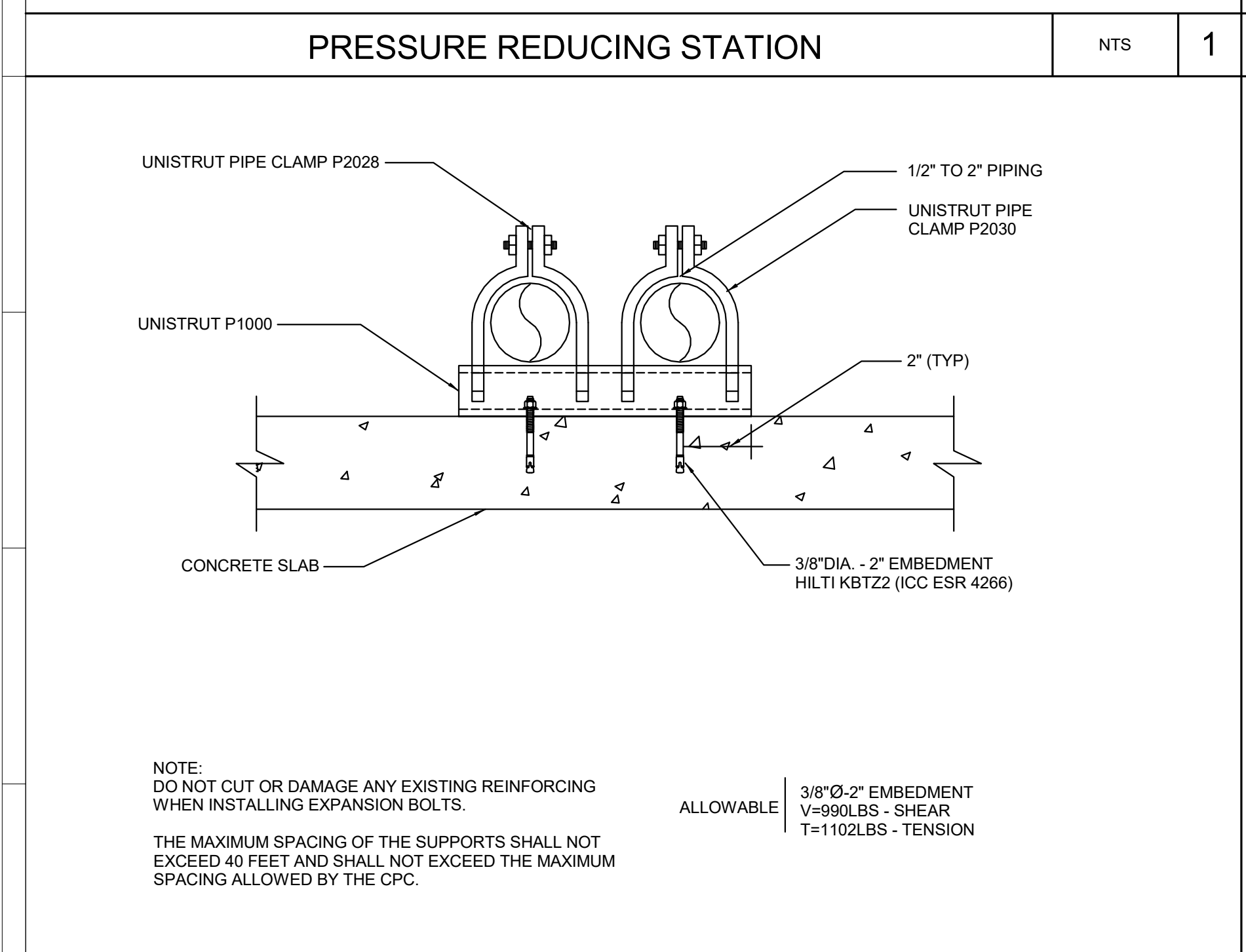
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WALL CLEANOUTS

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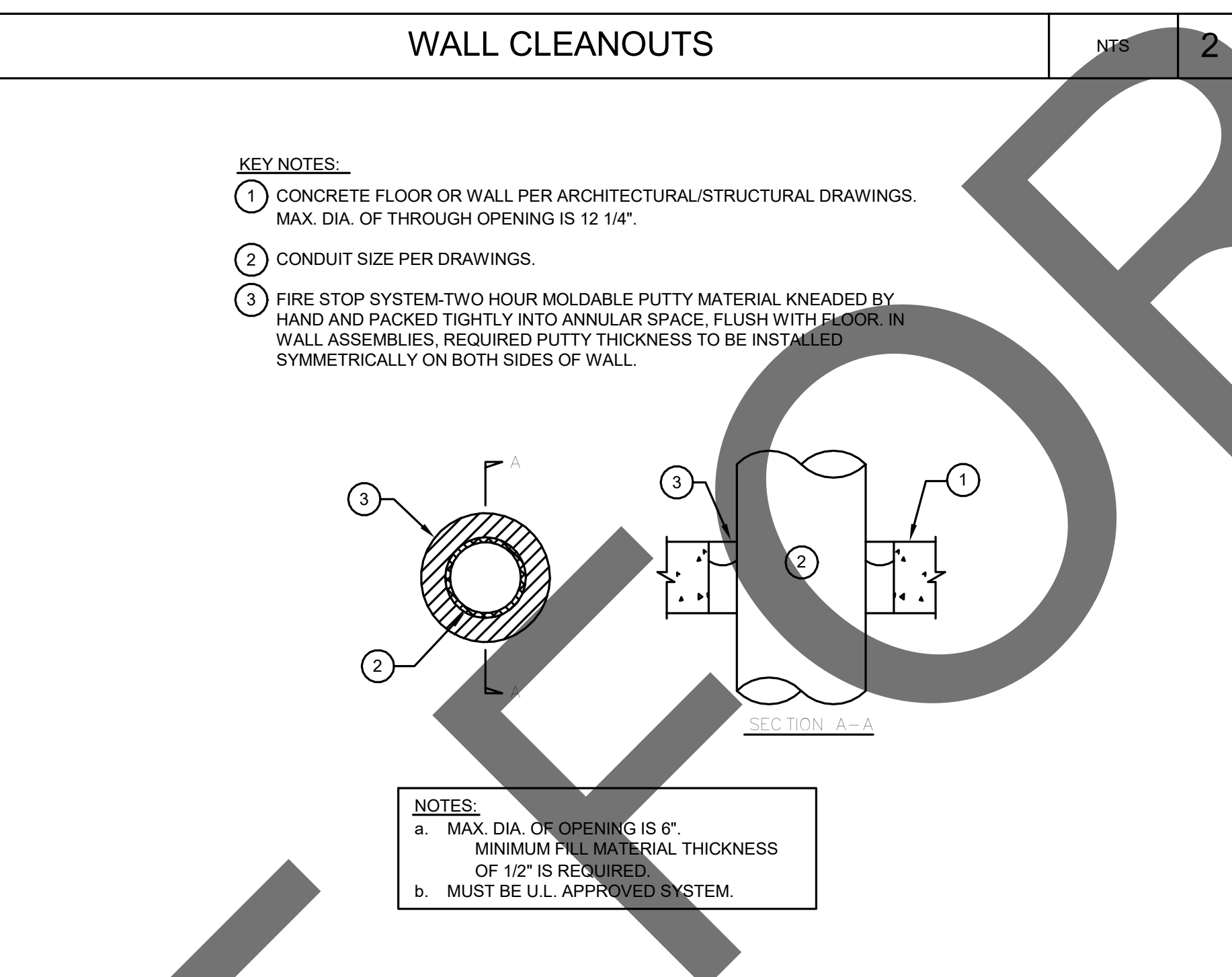
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FLOOR/WALL PIPE SUPPORT

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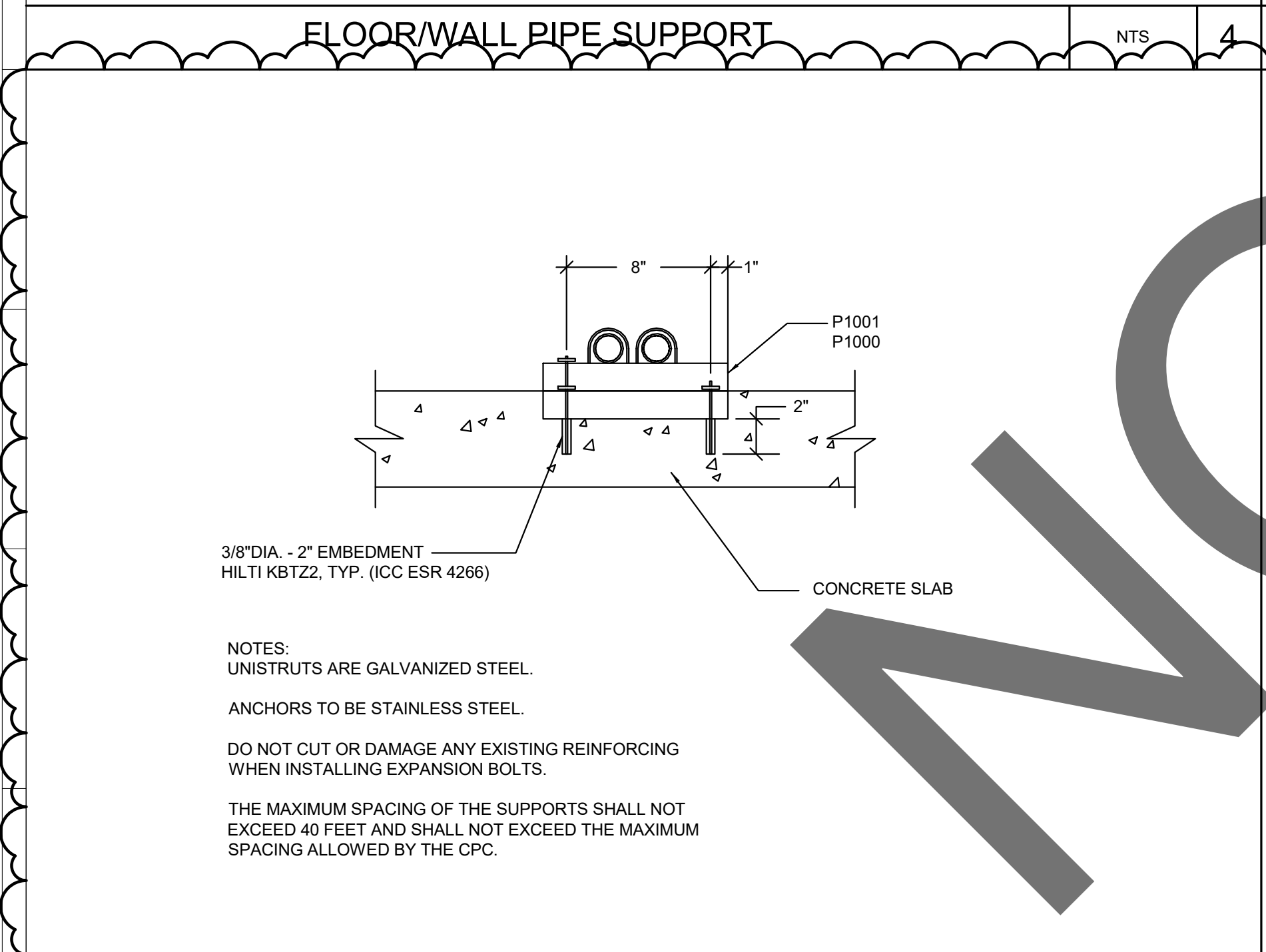
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PIPE PENETRATION THRU 2-HOUR CONCRETE FLOOR/ WALL

NTS

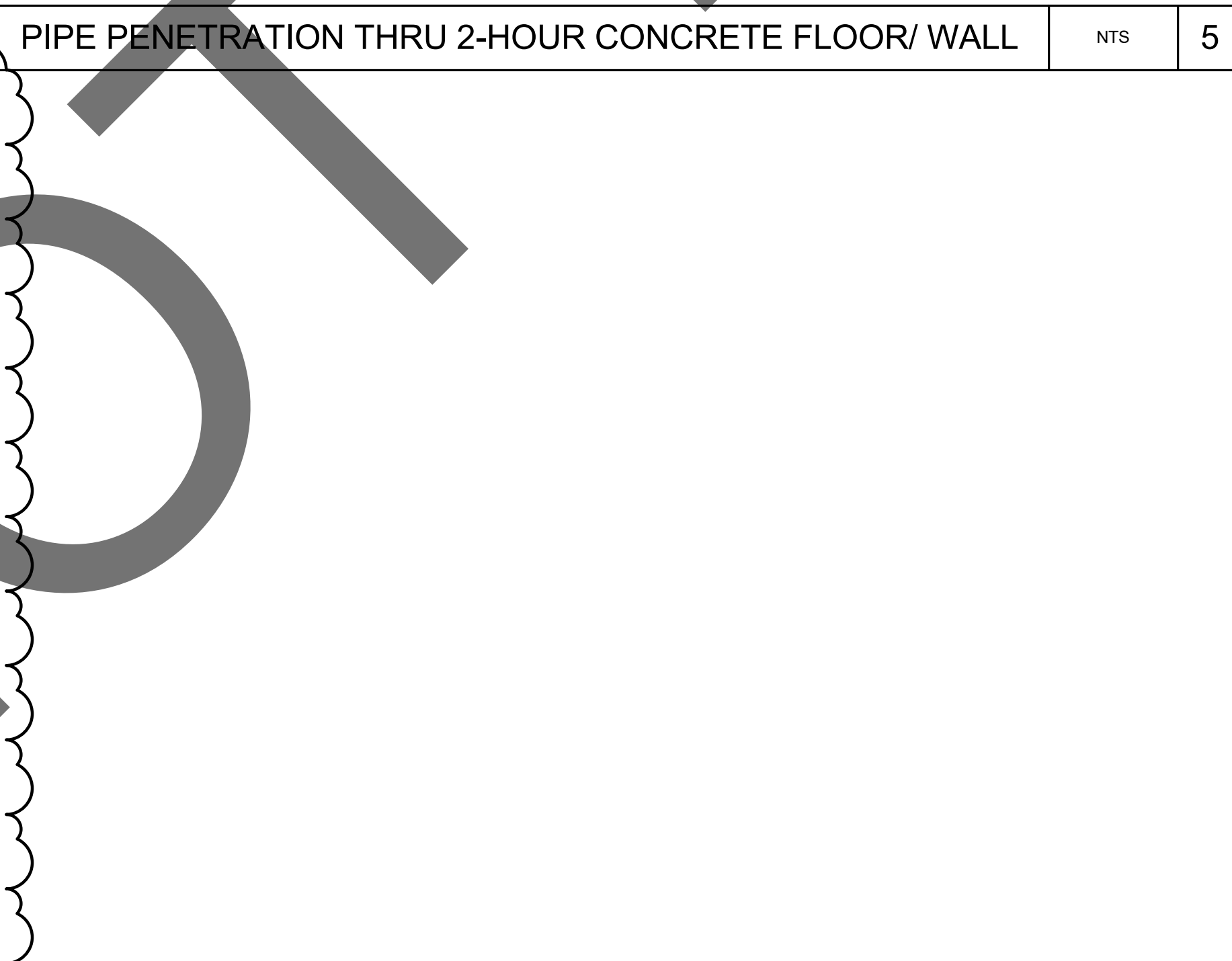
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20 GALLON SONIC IRRIGATOR DRAIN PIPE SUPPORT DETAIL

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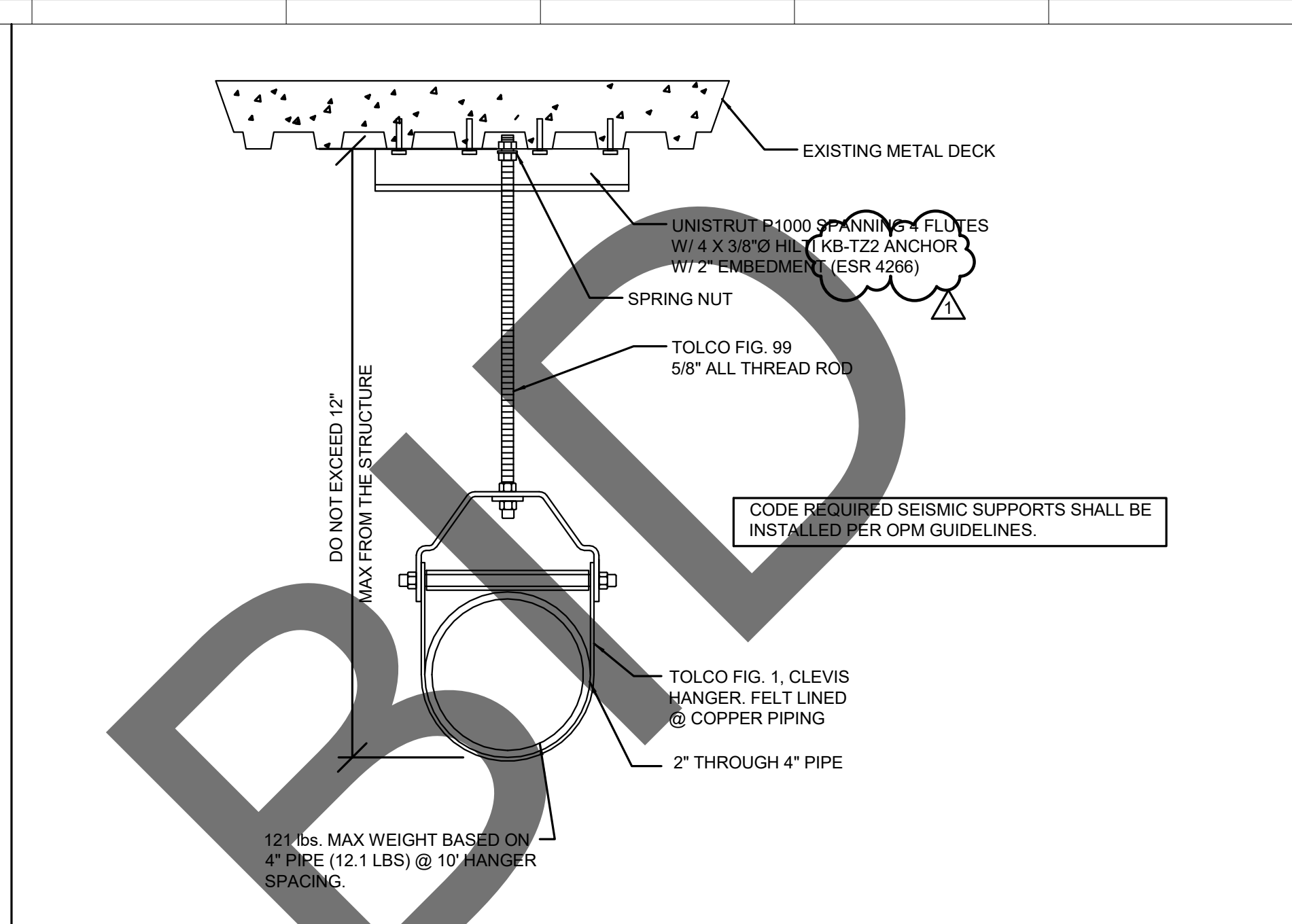
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NOT USED

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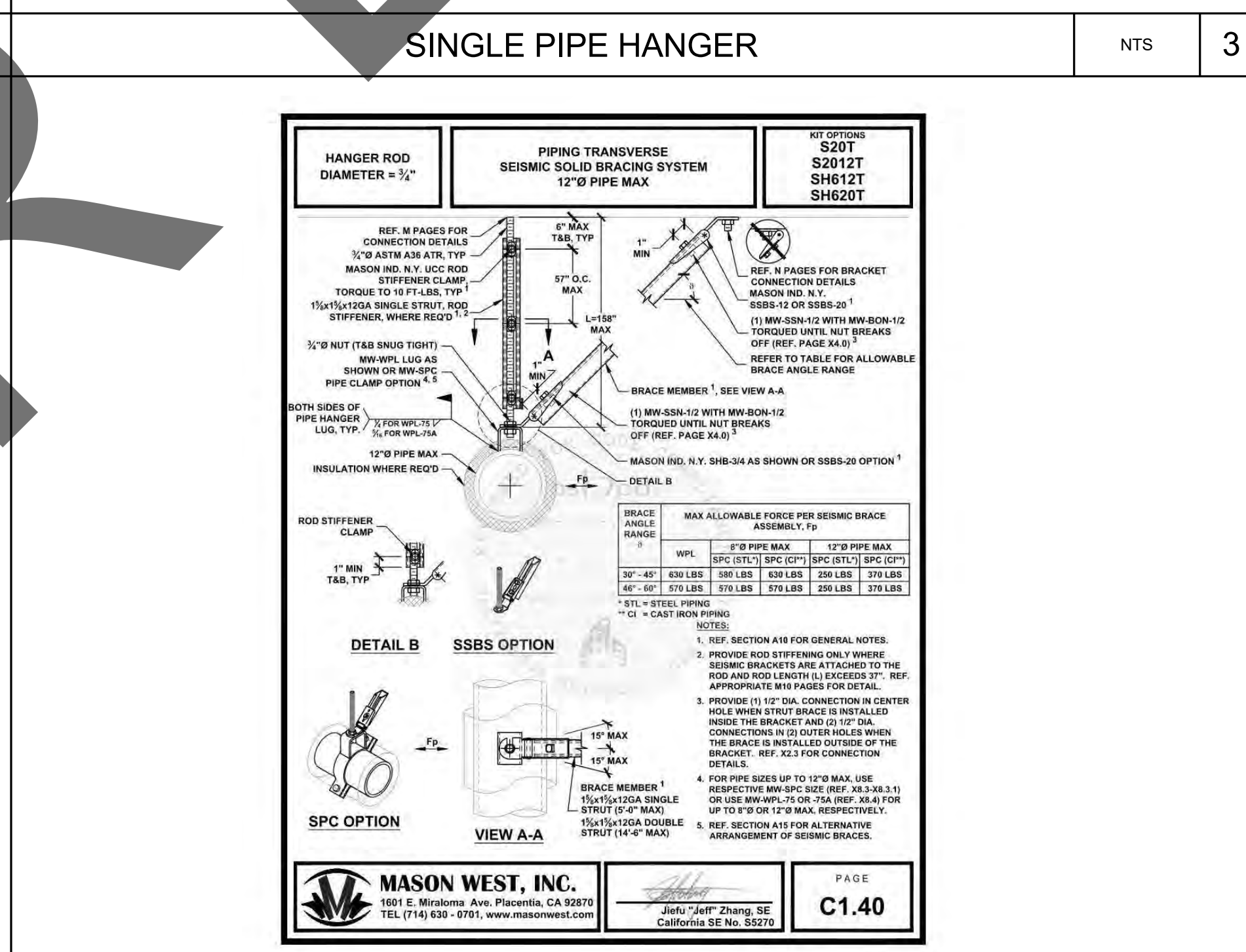
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SINGLE PIPE HANGER

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3



SEISMIC BRACING

NTS

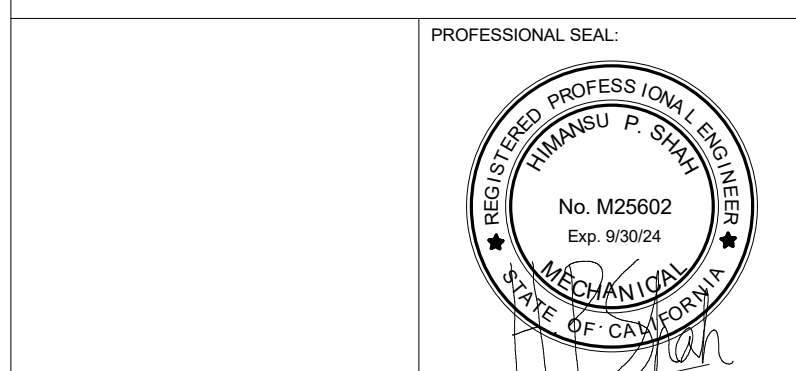
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PROJECT TITLE: SONIC IRRIGATION REPLACEMENTS FOR THE ARROWHEAD REGIONAL MEDICAL CENTER 400 N. PEPPER AVE., COLTON, CA. 92324

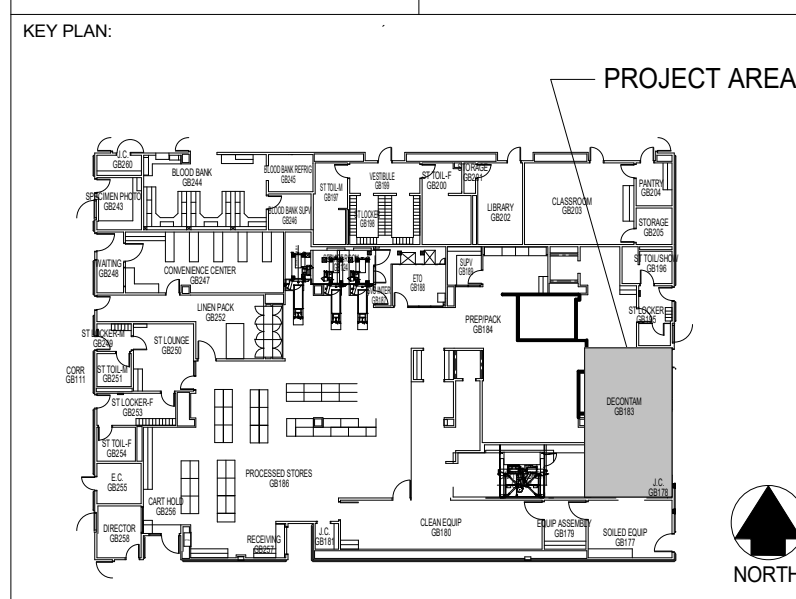
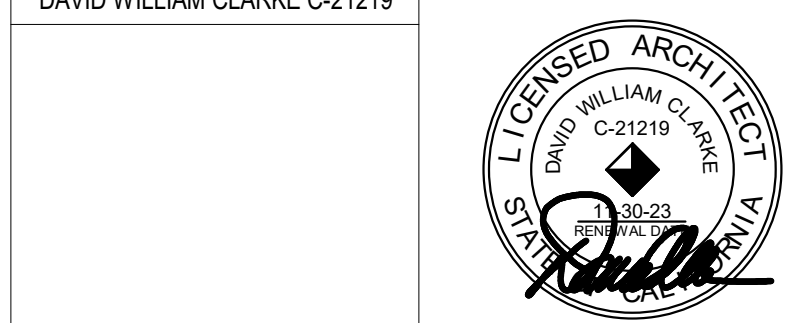


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Project No. 3021028.00



Department of Health Care Access and Information HCAI # S222316-36-00



No.	Date	Revision / Issue	REVISIONS
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SHEET INFORMATION	
Issue	100% CONSTRUCTION DOCUMENTS
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SHEET TITLE

DETAILS

SHEET NUMBER

P3.1

ELECTRICAL GENERAL NOTES:

1. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITERS' LABORATORIES (UL) AND BEAR THEIR LABELS, OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY. WHEN UL DOES NOT HAVE A LISTING, CUSTOM MADE EQUIPMENT SHALL HAVE COMPLETE TEST DATA SUBMITTED BY THE MANUFACTURER ATTESTING TO ITS SAFETY. IN ADDITION, THE MATERIALS, EQUIPMENT, AND INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING: AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA) NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) AMERICAN STANDARD ASSOCIATION (ASA) NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AMERICAN NATIONAL STANDARD INSTITUTE (ANSI) CALIFORNIA ELECTRICAL CODE (CEC) - 2019 EDITION CALIFORNIA CODE OF REGULATIONS TITLE 24 (CCR) INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE) ALL LOCAL CODES HAVING JURISDICTION, WHERE THE CODES HAVE DIFFERENT LEVELS OF REQUIREMENTS, THE MOST STRINGENT RULE SHALL APPLY.
2. THE CONTRACTOR SHALL VISIT THE SITE INCLUDING ALL AREAS INDICATED ON THE DRAWINGS. HE SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS, OR A BID, AND BY SUBMITTING A BID, ACCEPTS THE CONDITIONS UNDER WHICH HE SHALL BE REQUIRED TO PERFORM HIS WORK.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS, ADDENDA, DRAWINGS AND SPECIFICATIONS. HE SHALL CHECK THE DRAWINGS OF THE OTHER TRADES AND SHALL CAREFULLY READ THE ENTIRE SPECIFICATIONS AND DETERMINE HIS RESPONSIBILITIES. FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM DOING THE WORK IN COMPLETE ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
4. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, CHARGES, AND INCIDENTALS NECESSARY FOR THE INSTALLATION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY STATE, COUNTY AND LOCAL GOVERNMENTAL AGENCIES.
5. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AT THE SITE. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE DRAWINGS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER. BUILDING AUTHORITY.
6. THE CONTRACTOR SHALL PROVIDE AND KEEP UP-TO-DATE A COMPLETE RECORD SET OF DRAWINGS. THESE PRINTS SHALL BE CORRECTED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS. THIS SET OF DRAWINGS SHALL BE KEPT ON THE JOB SITE AND SHALL BE USED ONLY AS A RECORD SET. THIS SHALL NOT BE CONSTRUED AS AUTHORIZATION FOR THE CONTRACTOR TO MAKE CHANGES IN THE LAYOUT WITHOUT DEFINITE INSTRUCTION IN EACH CASE. UPON COMPLETION OF THE WORK, A SET OF REPRODUCIBLE CONTRACT DRAWINGS SHALL BE OBTAINED FROM THE ARCHITECT, AND ALL CHANGES AS NOTED ON THE RECORD SET OF DRAWINGS SHALL BE INCORPORATED THEREON WITH BLACK INK IN A NEAT, LEGIBLE, UNDERSTANDABLE AND PROFESSIONAL MANNER. FAILURE TO KEEP RECORD DRAWINGS UP-TO-DATE SHALL CONSTITUTE CAUSE FOR WITHHOLDING OF PROGRESS PAYMENTS.
7. IN SOME INSTANCES, IT MAY BE NECESSARY TO DEFER WORK IN CERTAIN AREAS AND LOCATIONS UNTIL SUCH TIME AS EXISTING FACILITIES CAN BE TEMPORARILY OR PERMANENTLY REARRANGED BY THE OWNER. THEREFORE, WHENEVER IT BECOMES NECESSARY FOR THE CONTRACTOR TO PERFORM WORK UNDER THIS CONTRACT IN EXISTING AREAS IN WHICH THE OWNER'S WORK IS BEING PERFORMED, THE CONTRACTOR SHALL ADVISE THE ARCHITECT AND THE OWNER RELATIVE TO THIS REQUIREMENT AND SHALL FOLLOW CLOSELY THE DIRECTIVE ISSUED BY THE ARCHITECT INsofar AS TIME AND PROCEDURE ARE CONCERNED. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL PRELIMINARY TIME TO WHICH HE MAY BE SUBJECT FOR PERFORMING WORK IN SUCH PROCEDURE AND AT SUCH TIMES AS MAY BE NECESSARY TO CAUSE THE LEAST INTERFERENCE WITH THE OPERATIONS OF THE OWNER.
8. ALL INTERRUPTION OF ELECTRICAL POWER SHALL BE KEPT TO A MINIMUM. HOWEVER, WHEN AN INTERRUPTION IS NECESSARY, THE SHUTDOWN MUST BE COORDINATED WITH THE OWNER AND ARCHITECT 14 CALENDAR DAYS PRIOR TO THE OUTAGE. ANY OVERTIME PAY SHALL BE INCLUDED IN THE CONTRACTOR'S BID. WORK IN EXISTING SWITCHBOARDS OR PANELBOARDS SHALL BE COORDINATED WITH THE OWNER PRIOR TO REMOVING ACCESS PANELS OR DOORS.
9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE TEMPORARY POWER FACILITIES AND CONNECTIONS FOR ALL FEEDERS OR SYSTEMS BEING DISCONNECTED IN ORDER TO MAINTAIN SYSTEMS IN OPERATION OR WHERE SAID FEEDERS OR SYSTEMS REQUIRE EMERGENCY STANDBY POWER.
10. SHOP DRAWINGS SHALL BE SUBMITTED AS PER CONTRACT SPECIFICATION.
11. AFTER ALL REQUIREMENTS OF THE SPECIFICATIONS AND/OR THE DRAWINGS HAVE BEEN FULLY COMPLETED, REPRESENTATIVES OF THE OWNER AND BUILDING AUTHORITY WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.
12. THE CONTRACTOR SHALL FURNISH A ONE YEAR WRITTEN GUARANTEE OF MATERIALS AND WORKMANSHIP FROM THE DATE OF SUBSTANTIAL COMPLETION.
13. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND TO COORDINATE WITH THE MECHANICAL, FIRE PROTECTION AND PLUMBING DRAWINGS FOR DUCTS, LINES AND EQUIPMENT.
14. ALL EQUIPMENT MOUNTED ON ROOF FOR CONNECTION OF HVAC EQUIPMENT SHALL BE MOUNTED ON UNISTRUT STANDS UTILIZING APPROVED PITCH POCKETS, FLASHING, ETC.
15. ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR.
16. COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT. SUPPLY POWER AND MAKE CONNECTION TO MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS INDICATED ON THE SINGLE LINE DIAGRAM. ELECTRICAL DRAWINGS, AND DRAWINGS OF OTHER TRADES. REVIEW THE DRAWINGS OF OTHER TRADES FOR CONTROL DIAGRAMS, SIZE AND LOCATION OF EQUIPMENT. DISCONNECT SWITCHES, STARTERS, WIRING, CONTROLS, AND CONDUIT FOR MECHANICAL AND PLUMBING OPERATIONS SHALL BE PROVIDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUGHING IN ALL CONDUIT TO THIS EQUIPMENT.
17. EXACT METHOD AND LOCATION OF CONDUIT PENETRATION AND OPENINGS IN CONCRETE WALLS OR FLOORS OR STRUCTURAL STEEL MEMBERS SHALL BE AS DIRECTED BY THE STRUCTURAL ENGINEER. PERFORM CORING, SAWCUTTING, PATCHING, AND REFINISHING OF EXISTING WALLS AND SURFACES WHEREVER IT IS NECESSARY TO PENETRATE. OPENINGS SHALL BE SEALED IN AN APPROVED METHOD TO MEET THE FIRE RATING OF THE PARTICULAR WALL, FLOOR OR CEILING. EXACT METHOD AND LOCATIONS OF CONDUIT PENETRATIONS AND OPENINGS IN CONCRETE WALLS OR F LOORS SHALL BE UL APPROVED.
18. CONNECTIONS TO VIBRATING EQUIPMENT AND SEISMIC SEPARATIONS: LIQUID-TIGHT FLEXIBLE STEEL CONDUIT IN DRY INTERIOR LOCATIONS. LIQUID TIGHT FLEXIBLE STEEL CONDUIT IN AREAS EXPOSED TO WEATHER, DAMP LOCATIONS, CONNECTIONS TO TRANSFORMER ENCLOSURES AND FINAL CONNECTIONS TO MOTORS. PROVIDE SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR IN FLEXIBLE CONDUIT RUNS. MAXIMUM LENGTH SHALL BE SIX FEET UNLESS OTHERWISE NOTED.
19. EQUIPMENT OUTLETS, CONDUIT, WIRE, AND CONNECTION METHODS IN HVAC AIR-PLENUMS SHALL BE APPROVED FOR USE IN PLENUMS AND SHALL CONFORM TO THE CEC.
20. ROUTE EXPOSED CONDUIT AND CONDUIT ABOVE ACCESSIBLE CEILING SPACES PARALLEL AND PERPENDICULAR TO WALLS AND ADJACENT PIPING.

21. CONDUIT SHALL NOT BE INSTALLED IN ANY FLOOR SLAB. CONDUIT SHALL BE INSTALLED CONCEALED IN THE CEILING SPACE. CONCEALED IN WALLS OR CEILINGS SHALL BE REMOVED UNLESS OTHERWISE NOTED.
22. THE CONTRACTOR SHALL STRATEGICALLY LOCATE BOXES, ETC., IN AN ACCESSIBLE CEILING SPACE OR PROVIDE AN ACCESS PANEL FOR INACCESSIBLE CEILING SYSTEMS.
23. COORDINATE REQUIRED ACCESS DOORS IN NON-ACCESSIBLE CEILINGS TO SUIT FIELD CONDITIONS. THE EXACT SIZES AND PHYSICAL LOCATIONS SHALL SUIT ACCESSIBILITY AND CONSTRUCTION CONDITIONS. ACCESS DOORS SHALL BE PROVIDED IN OTHER SECTIONS OF THE SPECIFICATIONS. ACCESS DOORS SHALL HAVE A FIRE RATING EQUAL TO THE CEILING ASSEMBLY IN WHICH THEY ARE INSTALLED.
24. WHENEVER A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT DEVICES, CIRCUIT BREAKERS, GROUND FAULT PROTECTION SYSTEMS, ETC. (ALL MATERIALS), ARISES ON THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER AND ARCHITECT/ENGINEER.
25. UTILITY PENETRATIONS OF ANY KIND IN FIRE AND SMOKE PARTITIONS AND CEILING ASSEMBLIES, SHALL BE FIRESTOPPED AND SEALED WITH AN APPROVED MATERIAL, SECURELY INSTALLED. STEEL ELECTRICAL OUTLET BOXES WHICH DO NOT EXCEED 16 SQUARE INCHES IN AREA, NEED NOT BE PROTECTED IN ONE HOUR OR TWO HOUR FIRE RATED WALLS, PARTITIONS, CEILINGS, OR AREA SEPARATION UNLESS THEY: OCCUR ON OPPOSITE SIDES OF THE WALL WITHIN 24 INCH HORIZONTAL DISTANCE OF ONE ANOTHER. IN THIS CASE, ONLY ONE OUTLET BOX NEED TO BE PROTECTED BY AN APPROVED FIRESTOP MATERIAL OR DETAIL TO CORRECT THIS CONDITION. CONDUIT IN COMBINATION WITH OUTLET BOXES OF ANY SIZE SUCH THAT THE AGGREGATE AREA OF UNPROTECTED OUTLET BOXES EXCEEDS 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL AREA. IN THIS CASE, ONLY A SUFFICIENT NUMBER OF OUTLET BOXES NEED BE PROTECTED BY AN APPROVED MATERIAL OR DETAIL TO CORRECT THE AGGREGATE AREA OF UNPROTECTED UTILITY BOXES TO LESS THAN 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL.
- STEEL ELECTRICAL OUTLET BOXES WHICH EXCEED 16 SQUARE INCHES IN AREA, AND ALL OTHER STEEL UTILITY OUTLET BOXES REGARDLESS OF SIZE, SHALL BE PROTECTED BY AN APPROVED FIRESTOP MATERIAL AS LISTED OR EQUAL.

FIRESTOPPING MATERIAL: MPP-1 MOLDABLE PUTTY PADS 3M CONTRACTOR PRODUCTS MINNEAPOLIS, MN FSP FIRESTOP PUTTY PADS HEV-DUTY NELSON PRODUCTS TULSA, OK FLAMESAFE FSP 1077 FIRESTOP PADS INTERNATIONAL PROTECTIVE COATINGS OAKHURST, NJ

- STEEL UTILITY BOXES WHICH EXCEED 100 SQUARE INCHES IN AREA SHALL BE PROTECTED BY ENGAGEMENT. UTILITY AND ELECTRICAL OUTLETS OR BOXES SHALL BE SECURELY FASTENED TO THE STUD OF FRAMING OF THE WALL, PARTITION OR CEILING ASSEMBLY. THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT SO THAT THE CLEARANCE BETWEEN THE BOX AND THE GYPSUM BOARD DOES NOT EXCEED 1/8 INCH. IN SMOKE WALLS OR PARTITIONS, THE 1/8 INCH CLEARANCE SHALL BE FILLED WITH AN APPROVED FIRE-RATED SEALANT.
26. REFER TO SINGLE LINE DIAGRAM AND FEEDER SCHEDULES FOR CONDUIT AND CONDUCTOR SIZE TO PANELS, TRANSFORMERS, MECHANICAL AND PLUMBING EQUIPMENT, ETC. CONDUIT RUNS MAY NOT BE SCHEDULED ON THE DRAWINGS, BUT ARE PART OF THIS CONTRACT.
27. ALL CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM SIZE, TYPE THHN/THWN THERMOPLASTIC, 600 VOLT, 75 DEGREES CELSIUS WET AND 90 DEGREES CELSIUS DRY AND UL LISTED UNLESS NOTED OTHERWISE. CONDUCTORS #12 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS # 10 AWG AND LARGER SHALL BE STRANDED.
28. MAXIMUM NUMBER OF CONDUCTORS IN OUTLET OR JUNCTION BOXES SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, ARTICLE 314.16(A), BUT IN NO CASE SHALL CONTAIN MORE THAN THE FOLLOWING NUMBER OF #12 AWG CONDUCTORS FOR THE SIZE OF BOX INDICATED. THE MINIMUM SIZE OUTLET OR JUNCTION BOX PERMITTED IN A WALL IS FOUR INCHES SQUARE BY 1-1/2 INCHES DEEP
- | | |
|--------------|-----------------------------|
| 4" SQ. | BY 1-1/2" D = 9 CONDUCTORS |
| 4" SQ. | BY 2-1/8" D = 13 CONDUCTORS |
| 4 11/16" SQ. | BY 1-1/2" D = 11 CONDUCTORS |
| 4 11/16" SQ. | BY 2-1/8" D = 18 CONDUCTORS |
- ALL OUTLET BOXES CONTAINING MORE THAN ONE DEVICE SHALL BE GANGED. TWO DEVICES DOUBLE GANGED, MINIMUM.
29. WHERE MULTI-HOMERUNS ARE INDICATED ON DRAWINGS INDICATING THE SAME PANELBOARD CIRCUIT NUMBER, PROVIDE JUNCTION BOX ABOVE ACCESSIBLE CEILING AND ROUTE ONE SET OF WIRES TO CIRCUIT BREAKERS.
30. THE EXACT LOCATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS, DETAILS, OR SECTIONS PRIOR TO INSTALLATION. ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE RECESSED IN WALLS UNLESS OTHERWISE NOTED. OUTLETS NOT INDICATED ON ARCHITECTURAL ELEVATIONS SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN, UNLESS OTHERWISE NOTED, MOUNT ELECTRICAL DEVICES AT THE FOLLOWING HEIGHTS:
- | | |
|------------------------|--|
| WALL SWITCH | +4'-0" SET VERTICALLY TO TOP OF DEVICE |
| CONVENIENCE RECEPTACLE | +1'-6" SET VERTICALLY TO CENTER OF DEVICE. |
- MOUNTING HEIGHTS OF ALL DEVICES AND EQUIPMENT ARE FROM FINISHED FLOOR TO CENTER OF DEVICES AND EQUIPMENT UNLESS OTHERWISE NOTED. BOXES INSTALLED IN LOCATIONS NOT APPROVED BY THE ARCHITECT SHALL BE RELOCATED AS DIRECTED BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
31. DRAWINGS ARE DIAGRAMMATIC ONLY. ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE CONTRACTOR UNLESS OTHERWISE NOTED AND SHALL BE COORDINATED WITH OTHER SECTIONS. DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, OR MECHANICAL ITEMS OR FEATURES.
32. RIGID GALVANIZED STEEL CONDUIT SHALL BE FULL WEIGHT, THREADED TYPE ALUMINUM OR STEEL. ELECTRICAL METALLIC TUBING (EMT) MAY BE USED IN WALLS OR CEILING SPACES WHERE NOT SUBJECT TO MECHANICAL DAMAGE. PVC SCHEDULE 40 MAY BE INSTALLED BENEATH SLAB OR BELOW GRADE. FLEXIBLE STEEL CONDUIT MAY BE USED AT FIXTURE AND OUTLET CONNECTIONS WITH NO RUNS LONGER THAN SIX FEET. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED IN ALL CONDUIT RUNS.
33. RIGID GALVANIZED STEEL CONDUIT FITTINGS SHALL BE THREADED AND THOROUGHLY GALVANIZED ELECTRICAL METALLIC TUBING (EMT) CONDUIT FITTINGS SHALL BE STEEL, RAINIGHT THREADED COMPRESSION TYPE, DIE CAST, SET SCREW, OR INDENTER TYPES ARE NOT ACCEPTABLE. FLEXIBLE STEEL CONDUIT FITTINGS SHALL BE MALLEABLE IRON CLAMP, SQUEEZE TYPE OR STEEL TWIST-IN TYPE WITH INSULATED THROAT. SET SCREW TYPE IS NOT ACCEPTABLE.
34. INTENT OF THE DRAWINGS: THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO RECONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH CALIFORNIA BUILDING STANDARDS CODE, TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED PLANS AND SPECIFICATIONS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD BEFORE PROCEEDING WITH THE WORK.
35. PANELBOARDS: PANELBOARDS SHALL HAVE CONCEALED TRIM CLAMPS AND HINGED TRIM ON DOOR TO ALLOW ACCESS TO WIRING GUTTERS WITHOUT REMOVAL OF TRIM, FLUSH LOCK, COPPER ALUMINUM BUS: CUTLER HAMMER PRL4, PRL5. ALL SPACES SHOWN ON THE ONE-LINE DIAGRAM SHALL BE FULLY PREPARED SPACES FOR FUTURE BREAKERS. MOLDED CASE CIRCUIT BREAKERS WITH INTEGRAL THERMAL AND INSTANTANEOUS MAGNETIC TRIP IN EACH POLE.

DEMOLITION NOTES:

1. IN GENERAL, THE DEMOLITION PLAN SHOWS ALL EXISTING EQUIPMENT TO BE REMOVED; HOWEVER, ELECTRICAL EQUIPMENT, WHETHER SHOWN ON THIS DRAWING AND/OR NOT THAT IS LOCATED IN REMOVED WALLS, FLOORS OR CEILINGS, SHALL BE REMOVED UNLESS OTHERWISE NOTED.
2. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO DISCONNECT AND REMOVE ALL EXISTING RECEPTACLES, FIRE ALARM, DEVICES, ETC., AFFECTED BY THE REMODELED AREA. THIS WILL INCLUDE REROUTING, OR THE EXTENSION OF, EXISTING CONDUIT AND FEEDERS A ND CABLING WHERE NECESSARY TO MAINTAIN THE CONTINUITY OF EXISTING EQUIPMENT REMAINING.
3. ALL CIRCUIT NUMBERS AND EXISTING CONDUIT HOMERUNS SHOWN ON THESE DRAWINGS WERE TAKEN FROM EXISTING RECORD DRAWINGS. IT IS THIS CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF HOMERUNS, AND ADJUST CIRCUIT NUMBERS ACCORDING TO EXISTING CONDITIONS IF REQUIRED.
4. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF ALL ELECTRICAL AND LOW VOLTAGE SYSTEMS, EQUIPMENT, ETC., REMAINING IN OPERATION WHICH ARE BEING FED BY AN ABANDONED OUTLET. MAINTAINING CONTINUITY SHALL CONSIST OF REROUTING CONDUIT, WIRING, ETC., AS REQUIRED.
5. ALL ELECTRICAL DEVICES, ETC., THAT ARE REMOVED, SHALL BE REMOVED COMPLETELY, INCLUDING CONDUIT AND WIRING BACK TO THE DEVICE, ETC., REMAINING IN SERVICE.
6. EXISTING CIRCUITS WHICH ARE REMOVED AND NOT REUSED SHALL BE IDENTIFIED ON THE PANEL SCHEDULE AS "SPARE".
7. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF EXISTING ELECTRICAL EQUIPMENT, AND TURN OVER REMOVED EQUIPMENT THAT THE OWNER REQUESTS IN AN "AS-FOUND" CONDITION. EQUIPMENT THAT IS TO BE REMOVED OVER SHALL BE BOXED AND TAGGED TO IDENTIFY THE SPECIFIC EQUIPMENT.
8. WHERE NEW CIRCUITS ARE SHOWN TO EXISTING PANELS, INSTALL NEW BREAKERS (MINIMUM 20 AMP, SINGLE POLE) AS CALLED FOR ON DRAWINGS. IDENTIFY EACH NEW CIRCUIT ON PANEL SCHEDULE.
9. EXISTING CONDUIT MAY BE REUSED IF ADEQUATELY SIZED, BUT IN NO CASE SHALL ANY EXISTING CONDUCTORS BE REUSED.
10. IN SOME INSTANCES, IT MAY BE NECESSARY FOR THE ELECTRICAL CONTRACTOR TO TEMPORARILY RELOCATE, REROUTE, ETC., EXISTING ELECTRICAL EQUIPMENT. THIS SHALL BE DONE SO THAT THE SYSTEMS IN ALL PHASES (THOSE COMPLETED AND THOSE YET TO BEGIN), ARE IN COMPLETE, OPERABLE, CONDITION AS CONSTRUCTION PROCEEDS THROUGH EACH PHASE.
11. ALL ABANDONED OUTLETS SHALL BE COVERED AND PATCHED TO MATCH THE FINISH OF SURROUNDING WALL OR CEILING TO THE SATISFACTION OF THE OWNER.

ELECTRICAL SHEET INDEX

E0.1	ELECTRICAL COVERSHEET
E0.2	SINGLE LINE DIAGRAM AND PANEL SCHEDULE
E1.0	OVERALL GROUND LEVEL PLAN - ELECTRICAL
E2.1	GROUND LEVEL PLAN - ELECTRICAL
E3.1	DETAILS
GRAND TOTAL: 5	

APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS.

- 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC)
PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
2019 CALIFORNIA BUILDING CODE (CBC)
PART 2, TITLE 24, CCR
BASED ON THE 2018 INTERNATIONAL BUILDING CODE (IBC)
2019 CALIFORNIA ELECTRICAL CODE (CEC)
PART 3, TITLE 24, CCR
BASED ON THE 2017 NATIONAL ELECTRICAL CODE (NEC)
2019 CALIFORNIA MECHANICAL CODE (CMC)
PART 4, TITLE 24, CCR
BASED ON THE 2018 UNIFORM MECHANICAL CODE (UMC)
2019 CALIFORNIA PLUMBING CODE (CPC)
PART 5, TITLE 24, CCR
BASED ON THE 2018 UNIFORM PLUMBING CODE (UPC)
2019 CALIFORNIA ENERGY CODE (CEC)
PART 6, TITLE 24, CCR
2019 CALIFORNIA HISTORICAL BUILDING CODE (CHBC)
PART 8, TITLE 24, CCR
2019 CALIFORNIA FIRE CODE (CFC)
PART 9, TITLE 24, CCR
BASED ON THE 2018 INTERNATIONAL FIRE CODE (IFC)
2019 CALIFORNIA EXISTING BUILDING CODE (CEBC)
PART 10, TITLE 24, CCR
BASED ON THE 2018 INTERNATIONAL BUILDING CODE
2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN)
PART 11, TITLE 24, CCR
2019 CALIFORNIA REFERENCED STANDARDS CODE (CRSC)
PART 12, TITLE 24, CCR
2016 NFPA 72
2018 NFPA 99 HEALTHCARE FACILITIES CODE
2018 NFPA 101 LIFE SAFETY CODE

ELECTRICAL SYMBOL LIST

SYMBOL:	DESCRIPTION:
	ELECTRICAL CONNECTION
	JUNCTION BOX
	PANELBOARD - RECESS MOUNT
	PANELBOARD - SURFACE MOUNT
	DISCONNECT.
	DUPLEX RECEPTACLE CONTROLLED BY OCCUPANCY
	QUAD RECEPTACLE CONTROLLED BY OCCUPANCY

ELECTRICAL ABBREVIATION KEY

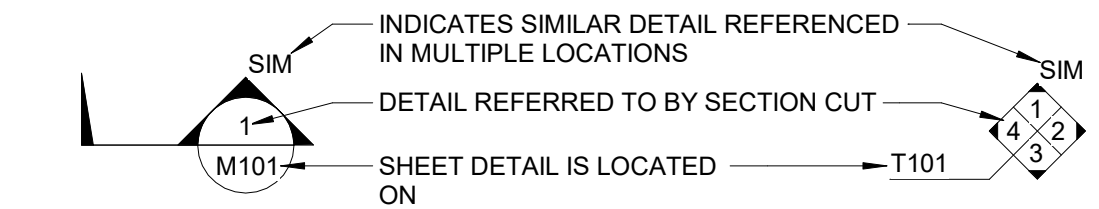
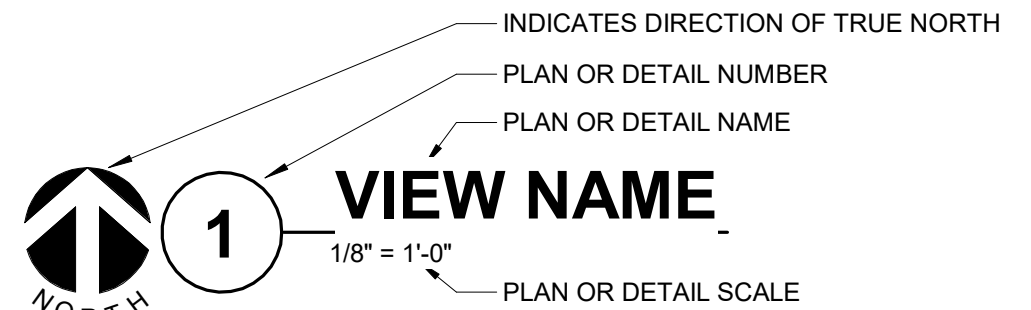
ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
C	CONDUIT
GFI	GROUND FAULT INTERRUPTER
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
SV	SOLENOID VALVE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED

DEFERRED APPROVAL:

1. SHORT CIRCUIT COORDINATION STUDY PER HCAI PIN 70. CEC 517.31700.32.

VIEW KEY

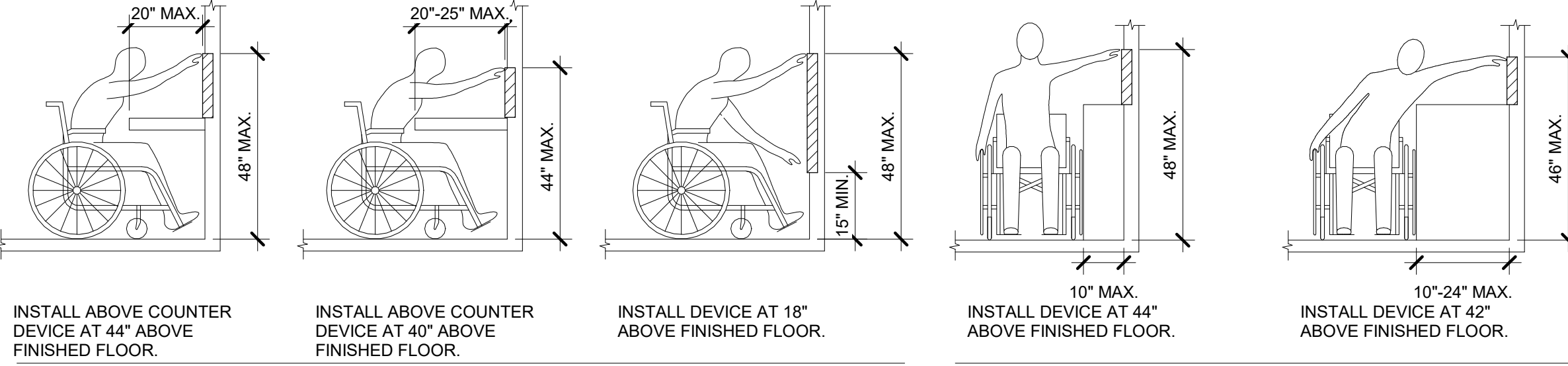
- NAME: 10'-0" LEVEL NAME: HEIGHT ABOVE PROJECT 0'-0" INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL



LINE TYPE AND TAG KEY:

- NEW WORK BY THIS CONTRACTOR (WIDE LINE)
--- NEW
- - - - - EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
- - - - - NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)
- EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
--- EXISTING
- - - - - EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
- - - - - EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)
- HALFTONING DOES NOT MODIFY SCOPE.

- 'TAG'-E TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING
- TAG-1 UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST
- ◆ INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL



ADA GUIDELINES - FRONT ACCESS

ADA GUIDELINES - SIDE ACCESS

ADA STANDARDS FOR ACCESSIBLE DESIGN

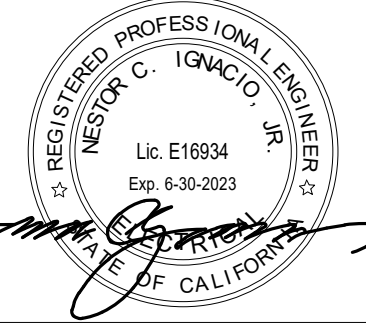
PROJECT TITLE: SONIC IRRIGATION REPLACEMENTS
FOR THE ARROWHEAD REGIONAL MEDICAL CENTER
400 N. PEPPER AVE., COLTON, CA. 92324
WBSE #: 10.10.1066
CIP #: 21-065
CAFM #: COL003

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PROJECT # 21007618.00

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REFERENCE SCALE IN INCHES
0 1 2 3

PROFESSIONAL SEAL:



ARCHITECT:



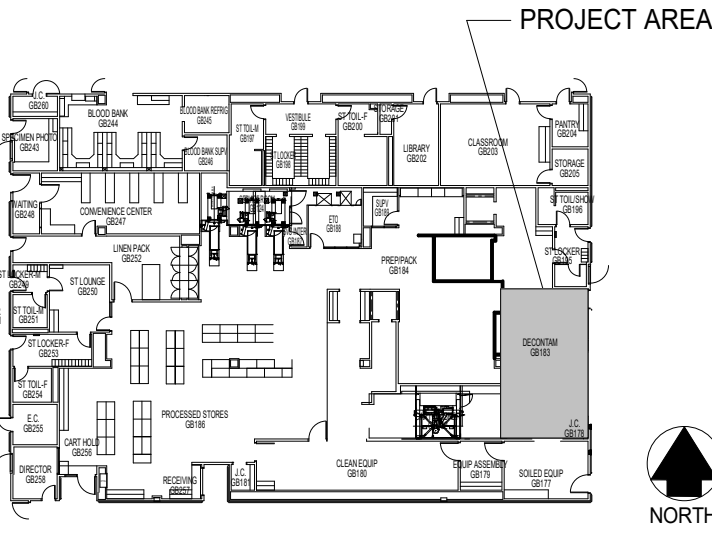
Project No. 3021028.00

DAVID WILLIAM CLARKE C-21219

PROFESSIONAL SEAL:



KEY PLAN:



Department of Health Care Access and Information

HCAI # S222316-36-00



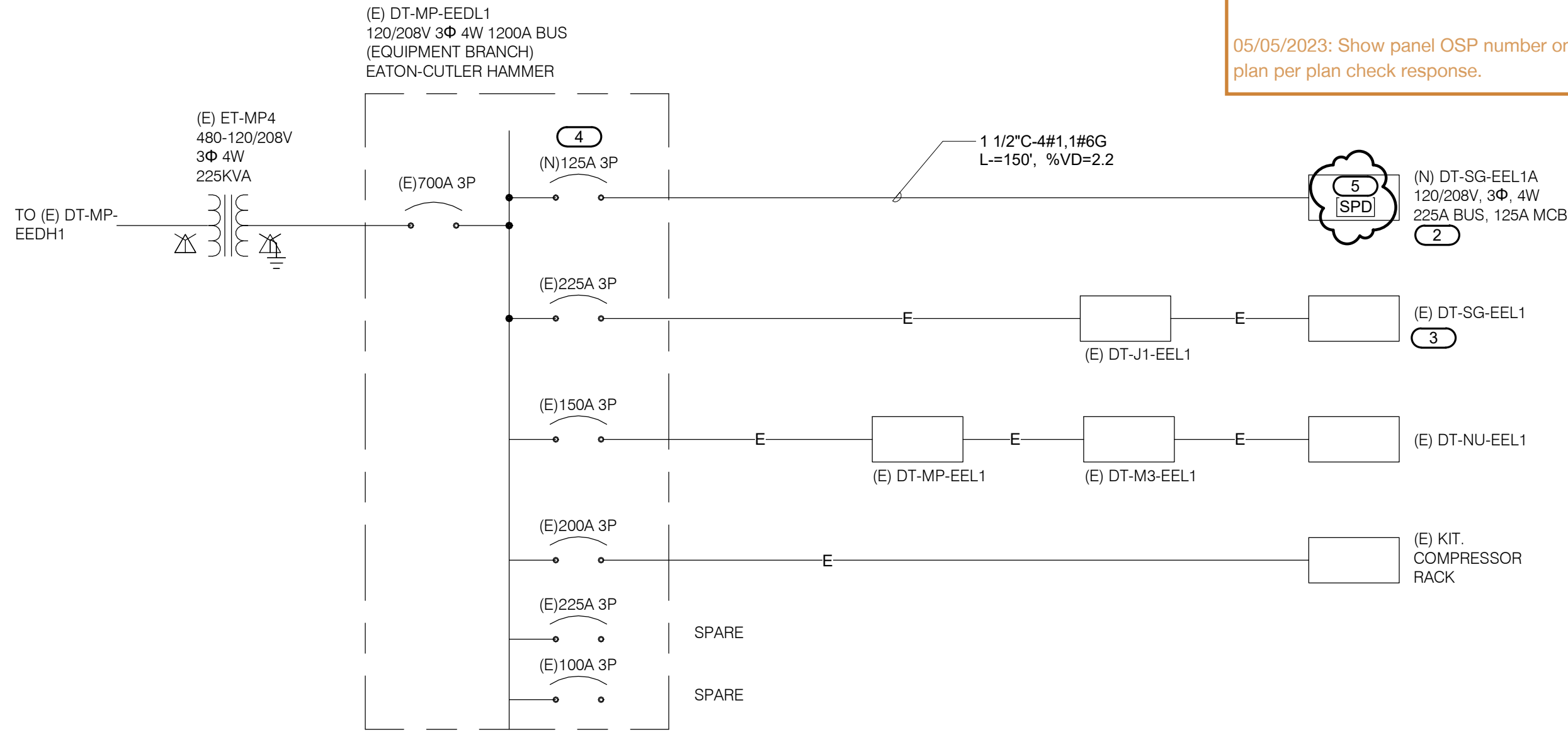
No.	Date	Revision / Issue	REVISIONS
1	2/8/23	HCAI COMMENT	

SHEET INFORMATION			
100% CONSTRUCTION DOCUMENTS			
Issue	Date	12/28/2022	
Job Number	21007618.00		
Drawn	Author		
Checked	Checker		
Approved			
SHEET TITLE			

ELECTRICAL COVERSHEET

SHEET NUMBER

E0.1



(E)DT-MP-EEDL1	1200A BUS
(E) DEMAND LOAD =	149 A
01/18/2022-02/18/2022	
X 1.25% =	186 A
ADDED LOAD =	66 A
TOTAL LOAD =	252 A

NOTES:

- DEMAND LOAD RECORDING CONDUCTED BETWEEN 01/18/2022 AND 02/18/2022.
- MOUNT THE NEW PANEL ADJACENT TO EXISTING PANEL DT-SG-EEL1 IN ROOM E.C. GB206A. REFER TO DETAIL 2 SHEET E3.1 FOR PANEL MOUNTING DETAIL.
- UPDATE EXISTING PANEL CIRCUIT DIRECTORY WITH NEW INDICATING THE REMOVED LOAD AS SPARE.
- NEW CIRCUIT BREAKER TO HAVE THE SAME AIC RATING AS EXISTING PANEL BOARD.
- PROVIDE NEW PANELBOARD WITH INTEGRATED SPD. EATON # TD01005006E UL 1449 4TH ED. LISTED.

ELECTRICAL SYSTEM COORDINATION:

THE ELECTRICAL SYSTEM HAS BEEN EVALUATED FOR COORDINATION AND THE ELECTRICAL SYSTEM WILL MEET THE COORDINATION REQUIREMENTS OF THE CEC, ARTICLE 700 AND 701.

SIGNATURE: _____

1 SINGLE LINE DIAGRAM
NO SCALE

00003 - STRU (George Zhu)
Specify OSP number for new panel.
(2019 CBC Section 107 and 1705A.13.3)

05/05/2023: Show panel OSP number on plan per plan check response.

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: DT-MP-EEDL1
LOCATION: RM E.C. GB206A
MFR.: EATON PANEL BOARD

SOLID NEUTRAL
GROUND BUS

MAIN: 125 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 22 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCB		WIRE		VD %	A	B	C	VD %	WIRE		OCB		LOAD DESCRIPTION	CKT NO.	KEY	
			AMPS	P	H	G						SIZE	N	H	P				AMPS
--	1	PRO SONIC IRRIGATOR	60 A	3	--	--	--	6	1			--	--	--	3	15 A	UNITY SONIC IRRIGATOR	2	--
--	3		--	--	--	--	--		6	1		--	--	--	--	--		4	--
--	5		--	--	--	--	--					--	--	--	--	--		6	--
--	7	SPARE	20 A	1	--	--	--	0	1			--	--	--	3	15 A	UNITY SONIC IRRIGATOR	8	--
--	9	SPARE	20 A	1	--	--	--		0	1		--	--	--	--	--		10	--
--	11	SPARE	20 A	1	--	--	--				0	1	--	--	--	--		12	--
--	13	SPARE	20 A	1	--	--	--	0	0			--	--	--	1	20 A	SPARE	14	--
--	15	SPARE	20 A	1	--	--	--		0	0		--	--	--	1	20 A	SPARE	16	--
--	17	SPARE	20 A	1	--	--	--				0	0	--	--	1	20 A	SPARE	18	--
--	19	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	20	--
--	21	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	22	--
--	23	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	24	--
--	25	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	26	--
--	27	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	28	--
--	29	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	30	--
--	31	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	32	--
--	33	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	34	--
--	35	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	36	--
--	37	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	38	--
--	39	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	40	--
--	41	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	42	--
			Total Load:		8.00 kVA		8.00 kVA		8.00 kVA										
			Total Amps:		66.67		66.67		66.67										
LOAD SUMMARY																			
LOAD CLASSIFICATION			CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		TOTALS*										
Spare			24 kVA		80.00%		19.2 kVA												
									TOTAL CONNECTED LOAD: 24.00 kVA										
									TOTAL ESTIMATED DEMAND LOAD: 19.2 kVA										
									TOTAL CONNECTED AMPS: 66.62 A										
									TOTAL ESTIMATED DEMAND AMPS: 53.3 A										
*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.																			
CIRCUIT KEY NOTES:																			