

**VALENCIA COUNTY
STATE OF NEW MEXICO
PHASE II REQUEST FOR PROPOSALS
DESIGN-BUILD PROCUREMENT
VALENCIA COUNTY HOSPITAL**



RFP#VCR-FY23-031

VALENCIA COUNTY PURCHASING

444 Luna Avenue
Los Lunas, NM 87031

Issue Date
December 18, 2023

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FUNDING SOURCES:

Coronavirus State and Local Fiscal Recovery Funds

BOARD OF COUNTY COMMISSIONERS:

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Troy Richardson, District 2
Morris Sparkman, District 3
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COUNTY PURCHASING:

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OWNER'S REPRESENTATIVE:

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APPROVED BY:

Rustin Porter

Rustin Porter, Purchasing Agent

Date: December 18, 2023

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PHASE II SOLICITATION – REQUEST FOR PROPOSALS

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I. REQUEST FOR PROPOSALS

**VALENCIA COUNTY HOSPITAL
Request for Proposals
Design Build Project Delivery Services
Valencia County Hospital
RFP # VCR-FY23-031**

Valencia County (County) is requesting Proposals from licensed, qualified Offerors to provide Design Build Delivery Services based upon the Scope of Work outlined in the previously solicited Request for Qualifications Based Proposal (RFP):

**RFP #VCR-FY23-031
Issue Date February 19, 2023
VALENCIA COUNTY
STATE OF NEW MEXICO
REQUEST FOR PROPOSALS
DESIGN-BUILD PROCUREMENT
VALENCIA COUNTY HOSPITAL**

All potential Offerors are to read, understand, and accept the requirements of this RFP. All Proposals submitted shall be valid for ninety (90) days subject to action by the County. The County reserves the right to reject any and all Proposals in part or in whole. A completed Proposal shall be submitted in a sealed container indicating the solicitation title and number along with the Offeror's name and address clearly marked on the outside of the container. All Proposals shall be received by **2:00 p.m. (Mountain) on March 7, 2024**, at the Valencia County Purchasing Division, 444 Luna Avenue, Los Lunas, New Mexico 87031. By submitting a Proposal for the requested services, each Offeror is certifying that it is a qualified firm, and its Proposal complies with regulations and requirements stated within the previously submitted Request for Proposals and this Request for Proposals. A Mandatory Pre-Proposal Conference will be held on **January 11, 2024 at 1:30 p.m. (Mountain)** in person at the Valencia County Purchasing Office located at 444 Luna Avenue, Los Lunas, New Mexico 88071. Attendance at the Pre-Proposal Conference is mandatory and is a pre-requisite to submitting a Proposal.

EQUAL EMPLOYMENT OPPORTUNITY: All qualified Offeror's will receive consideration of contract(s) without regard to race, color, religion, sex or national origin, ancestry, age, physical and mental handicap, serious medical conditions, disability, spousal affiliation, sexual orientation, or gender identity.

PROPOSALS RECEIVED AFTER THE DATE AND TIME SPECIFIED ABOVE WILL NOT BE CONSIDERED AND WILL BE REJECTED BY VALENCIA COUNTY.

The County of Valencia Procurement Manager is responsible for this procurement and whose name, address, and telephone number are listed below. Any inquiries or requests regarding this procurement should be submitted to the Procurement Manager in writing. Offerors may contact **ONLY** the Procurement Manager regarding the procurement. Other County employees do not have the authority to respond on behalf of the County of Valencia.

Mr. Rustin Porter, Purchasing Agent

rustin.porter@co.valencia.nm.us

Delivery Address:

444 Luna Avenue

Los Lunas, NM 87031

Mailing Address:

P.O. Box 1119

Los Lunas, NM 87031

Phone: 505-866-2005

FAX: 505-866-2424

Note: All deliveries via express carrier (INCLUDING PROPOSAL DELIVERY) should be addressed to Mr. Rustin Porter at the delivery address above.

Any inquiries or requests regarding this procurement must be submitted in writing to the Procurement Manager named above. ***Any contact or communication with any other County staff, outside of this Purchasing Office, regarding this procurement may be grounds for disqualification.***

A. INTRODUCTION

1. **Background:** Owner is utilizing a two-phase, Design/Build procurement procedure for awarding the Contract. This is the Phase II Evaluation Process.
2. Each short-listed Offeror is invited to submit detailed, specific technical concepts and solutions, costs, and scheduling based on the attached **BRIDGING DOCUMENTS**. A MANDATORY Phase II Pre-Proposal Conference will be conducted to allow short-listed Offeror's the opportunity to submit questions of clarification. Short-listed Offeror's will be evaluated by the Selection Committee using the criteria described in Section I REQUEST FOR PROPOSALS, Paragraph H – Phase II Evaluation Criteria. Upon completion of the evaluation process, the selection will be made and the Contract Awarded to the highest ranked Offeror.
3. Prior to receipt of the RFP, each offeror must complete the prescribed NON-DISCLOSURE AGREEMENT which shall be in force until the project information is released to the public.

B. MAXIMUM ALLOWABLE CONSTRUCTION COST

The Maximum Allowable Construction Cost including all required professional design services (MACC) for this project (all phases) is **\$36,000,000** exclusive of New Mexico Gross Receipts Tax (NMGRT).

C. SCHEDULE OF SERVICES

As a Design-Build project allows the use of multiple concurrent elements, the goal of the project is to have the entire project (all phases) substantially complete by **March 30 2026**. The County intends to work with the selected Offeror and develop a project/construction schedule in phases.

D. DEFINITIONS AND TERMINOLOGY

This Section contains definitions and abbreviations that are used throughout the Request for Proposals (RFP), including appropriate abbreviations.

“AIA” means the American Institute of Architects.

“ATC” means Alternative Technical Concepts.

“Architect” means a member of the Design Build Team who is a New Mexico licensed Architect and is responsible for the architectural design of the project.

“BCC” means the elected Board of County Commissioners whom all powers of the County are vested and who are responsible for the proper and efficient administration of the County government.

“Board of County Commissioners” (also **“BCC”**) means the elected board in whom all powers of the County are vested and who are responsible for the proper and efficient administration of County government.

“Close of Business” means 5:00 p.m. Mountain Standard Time (MST) or Mountain Daylight Time (MDT), whichever is in effect on the date specified.

“Contract” or **“Agreement”** means a written agreement for the procurement of items of tangible personal property or services.

“Contractor” means a successful Design-Build Offeror who enters a binding Contract.

“County” means the County of Valencia, State of New Mexico.

“Determination” means the written documentation of a decision of the procurement manager including findings of fact required to support a decision. A determination becomes part of the procurement file to which it pertains.

“Desirable” refers to the terms “may”, “can”, “should”, “preferably” or “prefers” which identify a desirable or discretionary item or factor. (As opposed to a “mandatory” item or factor.)

“Evaluation Committee” means the Board of County Commissioners of Valencia County. Efforts will be made to provide the evaluation committee any necessary technical support in the review of the Proposals.

“Evaluation Committee Report” means a report prepared by the Procurement Manager and the Evaluation Committee for submission to appropriate approval authorities for Contract Award that contains all written determinations resulting from the conduct of a procurement requiring the evaluation of competitive sealed Proposals.

“Finalist” is defined as an Offeror who meets all the mandatory specifications of this Request for Proposals and whose score on evaluation factors is sufficiently high to merit further consideration by the Evaluation Committee.

“Close of Business” means 5:00 p.m. prevailing Mountain (Standard or Mountain Daylight) Time, whichever is in effect on the date provided in the RFP.

“Construction Contractor” means a member of the Design Build Team who is a New Mexico licensed General Contractor and is responsible for the Construction Services and who will sign the Contract.

“Contract” or **“Agreement”** means a written agreement between the County (the Owner) and a firm for the work covered by this RFP.

“County” means Valencia County.

“Design Build Project Delivery System” means a procurement process by which the County contracts with one firm who has the responsibility for the design, construction and delivery of a project under a single contract with the County.

“Design Build Team” or **“firm”** as the terms are used herein, are synonymous with one another and, within the broad definition mean any offeror, who may be a person, a legal entity, a consortium of experts, a joint venture, a team of persons who, through partnership, general of limited or other legal entity, corporation, association, other organizations, or any combination thereof, formally organized so that it may submit a qualified offer and, as a result, who may be considered for a Contract Award for a design build project delivery

systems with a Using Agency / Owner. No distinction is made between formally organized design build firms and a project-specific design build firm.

“Determination” means the written documentation of a decision by the Chief Procurement Officer including findings of fact supporting a decision. A determination becomes part of the procurement file.

“Desirable” the terms “may”, “can”, “should”, “preferable”, or “prefers” identify a desirable of discretionary item or factor (as opposed to “mandatory”).

“Evaluation Committee” or **“Selection Committee”** means a body appointed by the County to perform the evaluations of Offeror Proposals. A body constituted in accordance with §13-1-121 NMSA 1978 to evaluate Proposals and make recommendations and or selections of the heightened ranked Offerors based on qualifications and cost.

“Owner’s Healthcare Consultant” The entity currently under contract with Valencia County to review the Design Builder’s facility design, provide design input, facilitate equipment purchasing by the Design Builder, and administer the facility once constructed. The Design Build Team will be responsible for collaborating with the Owner’s Healthcare Consultant during the design phase and cooperation with the Owner’s Healthcare Consultant’s during installation of specific healthcare equipment during the construction phase.

“MACC” means the maximum allowable construction cost which may include the estimated construction cost, the cost of design, utility connection fees, site development costs, built in equipment and furnishings, and a maximum contingency allowance of ten percent (10%).

“Mandatory” the terms “must”, “shall”, “will”, “is required”, or “are required”, identify a mandatory term or factor (as opposed to desirable) of this RFP. Failure to meet a mandatory item or factor will result in the rejection of the Offeror’s Bid. Rejection of the Bid will be subject to review of the Selection Committee and a final decision on the rejection will be made the County’s Chief Procurement Officer.

“Offeror” is any person, corporation, or partnership who chooses to submit a Bid in response to this RFP, with the intent of providing design build services for this project.

“Owner” as defined in the Agreement between the Owner and the Design Builder shall be Valencia County.

“Owner Team” means a Project Manager, the County Operations Division, County Manager’s Office, the County Planning Division, and the using agency.

“Owner’s Representative” means registered, professional consultant working in the capacity of advisor to the Owner in the procurement, design, and construction or the Project.

“Procurement Manager” means the person or designee authorized by the County to manage or administer a procurement requiring the evaluation of competitive sealed Proposals.

“Procuring agency of the County” means the department or other subdivision of the County of Valencia that is requesting the procurement of services or items of tangible personal property.

“Purchase Order” or **“PO”** means the document which directs a Contractor to deliver items of tangible personal property or services pursuant to an existing, valid Contract.

“Purchasing” means the County of Valencia Purchasing Office or the Valencia County Purchasing Agent.

“Purchasing Agent” or **“PA”** means the Purchasing Agent for the County of Valencia.

“Procurement Specialist” means the person or designee authorized by the County to manage or administer a procurement requiring the evaluation of competitive sealed Proposals.

“Project” for the purposes of this solicitation means the Valencia County Hospital.

“Project Team” means all members of the Design Build team including all Consultants who will be responsible for the completion of the Project.

“Proposal” means the Offerors phased response to this RFP.

“Request for Proposals” or **“RFP”** means all documents including those attached or incorporated by reference, used for soliciting Proposals for this Project.

“Responsive Offeror” or **“Responsible Bid”** means an offer or Bid which conforms in all material respects to the requirements set forth in the RFP as determined by the Selection Committee. Material respects of a request for proposals included but are not limited to: quality, quantity, delivery requirements, or price.

“Selection” means a formal written notice by the Chair of the Selection Committee that a firm has been selected to enter into a contract for services.

“Statement of Compliance” and **“Statement of Concurrence”** mean an express statement, by the Offeror in their Proposal, that they agree with and agree to the stated requirement(s). Possible examples of acceptable responses include “The [NAME HERE Company] agrees to comply with this requirement.” and “The [NAME HERE Company] concurs with this requirement.”

“Technical Irregularities” are matters of form rather than substance evident from their proposal, or insignificant mistakes that can be waived or corrected without prejudice to other Offeror’s; that is, where there is no effect on price, quality or quantity. If discussions are not held or if best and final offers upon which award will be made have been received, the Selection Committee may waive such irregularities or allow an Offeror to correct them if either is in the best interest of the County. Examples include the failure of an Offeror to:

- Submit the number of signed Proposals required by the RFP;
- Sign the Proposal, but only if the unsigned proposal is accompanied by other material indicating the Offeror’s intent to be bound; or
- Acknowledge receipt of an amendment involved had not effect on price, quality or quantity.

“Using Agency” means Valencia County and its’ departments and offices.

E. PROCUREMENT LIBRARY

The Procurement Library consists of the following documents which may be accessed by their associated Internet links:

- New Mexico Procurement Code

<https://www.srca.nm.gov/parts/title01/01.004.0001.html>

- Valencia County Procurement Policy

<https://www.co.valencia.nm.us/DocumentCenter/View/497/Valencia-County-Purchasing-Policy-PDF?bidId=>

<https://co.valencia.nm.us/DocumentCenter/View/8415/exhibit-g-small-purchase-limits-PDF?bidId=>

- Valencia County Code of Ethics

<https://co.valencia.nm.us/DocumentCenter/View/496/Purchasing-Code-of-Ethics-PDF?bidId=>

F. SEQUENCE OF EVENTS

This Section of the RFP contains the schedule governing the procurement, which describes the major procurement events and the conditions. The Procurement Manager will make every effort to adhere to the following schedule:

ACTION	RESPONSIBILITY	DATE
1. Notice of Shortlisted Offeror's	Purchasing Division	April 27, 2023
2. Release of Phase II Documents to Shortlisted Offeror's	Purchasing Division	December 18, 2023
4. Phase II Mandatory Pre-Bid Conference	County, Offeror	January 11, 2024
3. Acknowledgement of Receipt Form	Offeror	January 11, 2024
4. Preliminary Schedule for Design / Construction	Offeror	January 18, 2024
5. Questions / Clarifications for Phase II	Purchasing Division / Offeror	January 25, 2024
6. Responses to Phase II Questions	Purchasing Division	February 8, 2024
7. Submission of Phase II Proposals (2:00 p.m.)	Offerors	March 7, 2024
8. Review of Phase II Proposals	Evaluation Committee	March 18-22, 2024
9. Interviews / Oral Presentation	Committee / Purchasing	March 25-29, 2024
10. Final Selection / Notice of Intent (Estimated)	County / CPO	April 11, 2024
11. Contract Award (Estimated)	County/Contractor	April 17, 2024

G. PHASE II EVALUATION PROCESS

1. The following sections describe the activities listed in the sequence of events shown in Section F:
 - a. Issue of RFP – This RFP is issued by the Valencia County Purchasing Division in accordance with the provisions of §13-1-119 through 13-1-124 NMSA 1978.
 - b. Pre-Proposal Conference – A Pre-Proposal Conference is scheduled to occur on the date indicated in the “Sequence of Events” in Section F. Questions may be submitted at the Pre-Proposal Conference and up to the deadline indicated in the “Sequence of Events” in Section F. A public log will be kept of the names of potential Offerors that attended the Pre-Proposal Conference.
 - c. Acknowledgment of Receipt Form – A potential Offeror shall hand deliver, return by facsimile or email the “Acknowledgement of Receipt Form” provided in Appendix A to be placed on the procurement distribution list. The form shall be signed by an authorized representative of the organization, dated, and returned by close of business on the date indicated in the “Sequence of Events” in Section F. The procurement distribution list will be used for the distribution of written responses to questions and any RFP addenda.
 - d. Preliminary Schedule A potential Offeror shall submit a rudimentary schedule for the design and construction to the Purchasing Division indicating intent to comply with the design / build substantial completion date of **March 30, 2026**.

- e. Deadline to Submit Additional Written Questions – Potential Offerors may submit written questions regarding this RFP until the close of business indicated in the “Sequence of Events” in Section F. All written questions must be addressed to the Procurement Specialist via facsimile or email. **Any contact with any other County staff member other than the Procurement Specialist named in this solicitation may be grounds for rejection of a Proposal.**
- f. Response to Written Questions – Written responses to written questions and any RFP amendments will be posted to the Valencia County Purchasing Office web site (<http://www.co.valencia.nm.us/>, via the “Purchasing/Sell to County” link). Notification of such posting shall be provided to all potential Offerors that have returned the “Acknowledgement of Receipt” Form found at Appendix A. A new “Acknowledgement of Receipt” Form will accompany the posted distribution package. The form should be signed by the Offeror's representative, dated, and hand-delivered or returned by facsimile or e-mail or by registered or certified mail by the date indicated thereon. Failure to return this form shall constitute a presumption of receipt and withdrawal from the procurement process.

H. PHASE II EVALUATION CRITERIA

The successful offer will be the one that provides the best value to the County, based upon a total score calculated using the criteria listed below (“weighted criteria”). Criteria 3 and 4 below will primarily be evaluated considering the objectives of the project program requirements, and the Section II – Technical Submittal Requirements.

TEM NO.	CRITERIA	MAX. POINTS
1	Project Staffing (previous score as Phase I unless conditions changed)	50
2	Past Performance (previous score as Phase I unless conditions changed)	50
3	Quality of Design Solution, including technical submittals	300
4	Quality of Construction Approach	100
5	Management Plan for constructing the Project	100
6	Cost Response Form	250
7	Schedule	150

CRITERIA EVALUATION FACTORS: A brief explanation of each evaluation category is listed below:

1. Project Staffing (50 points): Offeror must indicate that conditions from Phase I have not changed, otherwise provide the following:
 - a. Provide an organizational chart of key project personnel and address how critical Subcontractors will be selected and managed.
 - b. Design Team: Submit resumes for the Design Team Project Manager, Project Architect, Design Quality Control Manager, and other key members of the design team that will be assigned to this project. Also, describe as many as three (3) previous

- partnering / teaming arrangements with construction teams and any Design-Build projects.
- c. Construction Team: Submit resumes for all key personnel (PM, QCM, Safety Manager and Project Superintendent) that demonstrates technical qualifications in all disciplines required to perform work similar to that described in the RFP. Also describe as many as three (3) previous partnering / teaming arrangements with design teams and any Design-Build projects.
2. Past Record of Performance (50 points): Offeror must indicate that conditions from Phase I have not changed) otherwise provide the following:
 - a. The Selection Committee will evaluate the quality of the Offeror's past performance. The assessment of the Offeror's past performance will be used as a means of evaluating the relative capability of the Offeror's to successfully meet the requirements of the RFP. The Offeror must provide the information requested below for past performance evaluation or affirmatively state that it possesses no relevant, directly related, or similar past performance.
 - b. Design Team: submit past performance data on as many as three (3) projects that demonstrate design past performances, in performing similar in scope, size and complexity to that described in the RFP. Include design awards, customer letters of recommendation etc., with points of contact and telephone numbers.
 - c. Construction Team: submit past performance data on as many as three (3) projects that demonstrate design past performances, in performing similar in scope, size and complexity to that described in the RFP. Include design awards, customer letters of recommendation etc., with points of contact and telephone numbers.
 - 1) Information on previous design-build projects to include clear descriptions of the specific roles of the design and construction team Owner's project budget, final construction cost estimates, Proposal Price including accepted alternates, total number and cost of Change Orders.
 - 2) Explain any project difficulties and how the Offeror handled these issues.
 - 3) Attach Contractor's Final Application and Certification of Payment (AIA Form G702 or equal) for these design build project.

***Offerors are cautioned that the Selection Committee will use data provided by the teaming partners as well as data obtained from other sources in the evaluation of past performance.*
 3. Quality of Proposed Design solution, including required technical submittals (300 points):
 - a. Evaluation will consider conformance to the Project Program Requirements including functional organization, space allocation and functional and operational requirements as reflected in the site and building layout. Offeror is to prepare conceptual drawings and plans that illustrate the architectural image of the proposed facility. These images will show site plan, conceptual floor plan, and building elevations indicating at a minimum the requirements described within Section II Submittal Requirements. Unique characteristics that the Offeror is proposing shall be shown separately to clarify intent.
 - 1) 200 - 300 points if Proposed exceeds the minimum program requirements in a way beneficial to the County; Proposed must have more strengths and no deficiencies.

- 2) 100 - 200 points if Proposed meets the minimum program requirements in a way beneficial to the County; Proposed must have no deficiencies but may have one or more strengths.
 - 3) 0 – 100 points if Proposed does not clearly meet the minimum program requirements, but any such deficiency is correctable.
4. Quality of Construction Approach (100 points):
- a. Offeror is to describe the structural framing system, mechanical system, electrical and lighting systems, plumbing system, medical gas system, envelope fenestration, roof construction, door and hardware components, architectural finishes, and the quality and durability of finishes that have been included as part of the Proposal. The discussion shall include and describe any system enhancements as described in Section II Submittal Requirements.
 - 1) 68 – 100 points if the Proposed exceeds minimum performance or capability expectations in a way beneficial to the County; Proposed must have one or more strengths and no deficiencies.
 - 2) 34 – 67 points if the Proposed meets minimum performance or capability expectations in a way beneficial to the County; Proposed must have no deficiencies but may have one or more strengths.
 - 3) 0 – 33 points if Proposed does not clearly meet some minimum performance or capability expectations in a way beneficial to the County, but any such uncertainty is correctable.
5. Management Plan for constructing the Project (100 points):
- a. Offeror is to provide any enhancements to the personnel and procedures identified in the Phase I Qualification Statement.
 - b. Describe how the construction will be managed in accordance with the requirements described in Section II Submittal Requirements.
 - 1) 68 - 100 points if Proposed exceeds minimum expectations that benefit the County; Proposed must have one or more strengths and no deficiencies.
 - 2) 34 - 67 points if Proposed meets expectations that benefit the County; Proposed must have no deficiencies but may have one or more strengths.
 - 3) 0 – 33 points if Proposed does not clearly meet expectations that benefit the County, but any such uncertainty is correctable.
6. Cost (250 points)
- a. The total cost will be evaluated and substantiated for reasonableness and realistic cost assessment in relation to the proposed conceptual design. Offeror may submit a price Bid that is below the MACC, but in no case should a Bid be submitted in excess of the MACC inclusive of NMGRT. Lowest cost will be awarded 250 points. The following formula will be used to calculate points for each higher cost Bid:
 - 1) Lowest Cost receives 250 points.
 - 2) Higher Cost scores will be calculated by formula:

$$\text{Lowest cost} / \text{higher cost (\%)} \text{ multiplied by } 250 \text{ points} = \text{total points.}$$
7. Project Schedule (150 points)

- a. Offeror is to provide its proposed schedule dates for the Valencia County Hospital Project including at a minimum the milestone dates described in Section II Submittal Requirements
- b. The Bid must address Final Completion and Certificate of Occupancy by March 2025, but Offeror may propose an earlier date. Points will be awarded on basis of quality of viability of the schedule presented and the extent to which completion is within such date.
 - 1) 100 - 150 points if Proposed exceeds minimum expectations that benefit the County; Proposed must have one or more strengths and no deficiencies.
 - 2) 51 - 99 points if Proposed meets expectations that benefit the County; Proposed must have no deficiencies but may have one or more strengths.
 - 3) 0 - 50 points if Proposed does not clearly meet expectations that benefit the County, but any such uncertainty is correctable.

I. **SUBMISSION OF A DESIGNER-BUILDER PROPOSAL**

1. PROPOSALS shall be submitted in sealed envelopes, addressed to:

Valencia County Purchasing Division
RFP No. VCR-FY23-031
Mr. Rustin Porter, Purchasing Agent
rustin.porter@co.valencia.nm.us
Physical Address:
444 Luna Avenue
Los Lunas, NM 87031
Mailing Address:
P.O. Box 1119
Los Lunas, NM 87031
Phone: 505-866-2005
Fax: 505-866-2424

2. ALL OFFEROR PROPOSALS MUST BE ADDRESSED AND DELIVERED TO AND RECEIVED FOR REVIEW AND EVALUATION BY THE PROCUREMENT SPECIALIST OR DESIGNEE NO LATER THAN **2:00 p.m. (MST) March 7, 2024**. **PROPOSALS received after this deadline will not be accepted. The date and time will be recorded on each PROPOSAL.**
 - a. The date and time of receipt will be recorded on each Proposal. Proposals must be addressed and delivered to the Procurement Manager at the delivery address listed in Section I, Paragraph D. Proposals must be sealed and should be labeled on the outside of the package to clearly indicate that they are in response to the “Valencia County Hospital RFP”, should reference “RFP No. VCR-FY23-031” and should indicate the deadline for receipt (due date and time.) Proposals submitted by facsimile or other electronic means **WILL NOT BE ACCEPTED**.

- b. A public log will be kept of the names of all Offerors that have submitted Proposals. Pursuant to §13-1-116 NMSA 1978, the contents of any Proposal shall not be disclosed to competing Offerors prior to Contract Award.
- 3. Receipt of Proposals: The Purchasing Division will time-stamp Proposals and will be held in a secure location in the Division. Proposals received after the deadline will be deemed non-responsive and will be returned unopened to the Offeror.
- 4. Confidentiality of Proposals: Proposals will not be opened publicly and shall not be open to public inspection until after Contract Award and conclusion of successful contract negotiations. An Offeror may request in writing non-disclosure of confidential data. Such data shall accompany the Proposal and shall be readily separable from the Proposal to facilitate eventual public inspections of the non- confidential portion of the Proposal.
- 5. Non-Conforming Proposals: Proposals will be reviewed for completeness, format, and compliance with the requirements of the RFP. If any Proposal is deemed non-responsive by the Selection Committee, the Offeror will be notified in writing of such determination.
 - c. The evaluation of Proposals will be performed by an Evaluation Committee appointed by County Management. The process will take place during the timeframe indicated in the “Sequence of Events” described in III.A. During this time, the Procurement Specialist may initiate discussions with Offerors who submit responsive or potentially responsive Proposals for the purpose of clarifying aspects of the Proposals, but Proposals may be accepted and evaluated without such discussion. Discussion SHALL NOT be initiated by any Offeror.
 - d. The Evaluation Committee may select, and the Procurement Manager may notify finalist Offerors on the date indicated in Section III.A (Sequence of Events), above. Only finalists will be invited to participate in the subsequent steps of the procurement. The Evaluation Committee reserves the right not to utilize the finalist process if they deem it in the best interest of the County.
- 6. Oral Presentations - Finalist Offerors may be required to make an oral presentation to the Evaluation Committee. If so required, the Procurement Manager will schedule the time for each Offeror’s presentation. All presentations will be made in a location to be specified in Los Lunas, NM 87031. Each presentation will be limited to a fixed amount of time as designated by the Procurement Manager in the Oral Presentation requirement notification.
- 7. Best and Final Offers - Finalists may be asked to submit revisions to their Proposals for the purpose of obtaining best and final offers on the date indicated in Section II.A (Sequence of Events), above.
- 8. Phase II Bid Requirements – Each shortlisted Offeror will receive Phase II Bridging Documents, to include but not limited to Proposal requirements, guidelines, previously completed space programs, site, and design standards to the extent the information is known and available, previously completed archeological reports, survey documents, transportation studies, and as-built plans (as available).
- 9. Phase II Mandatory Pre-Proposal Conference / Site Visit – Provides shortlisted Offerors an opportunity to discuss the details of the project criteria with the Owner’s Team. **ATTENDANCE IS MANDATORY.**

10. Alternative Technical Concepts / Questions / Clarifications – Prior to submission of the Phase II Proposals, shortlisted Offerors will be scheduled to present any alternative technical concepts (ATC) to the Owner that are being considered by the Offeror. In addition, the shortlisted Offerors may contact the Procurement Specialist with questions about the scope of the project or the RFP schedule.
11. Addenda / Responses to Ph II Written Questions – If an RFP Amendment is deemed necessary, it will be issued no later than five (5) business days prior to the submission deadline. The Purchasing Division will distribute the addenda in writing to all short-listed Offerors and will post the addenda to the County Website.
12. Receipt of Proposals – The Purchasing Division will time-stamp Proposals and Proposals will be held in a secure location at the Division. Proposals received after the deadline will be deemed non-responsive and will be returned unopened to the Offeror.
13. Confidentiality of Proposals – Proposals will not be opened publicly and shall not be open to public inspections until after Contract Award and conclusion of successful contract negotiations. An Offeror may request in writing, non-disclosure of confidential data. Such data shall accompany the Proposal and shall be readably separable from the Proposal to facilitate eventual public inspections of the non- confidential portion of the Bid.
14. Non-Conforming Proposals – Proposals will be reviewed for completeness, format and compliant with the requirements of the RFP. In any Bid is deemed non-responsive by the Selection Committee, the Offeror will be notified in writing of such determination.
15. Interviews / Award –Notice to shortlisted Offerors will be provided to include the interview date, time, and location. The purpose of the interview is to allow the Offeror to present its qualifications, past performance, quality of proposed design solution, quality of construction approach, demonstrated response to program requirements, management plan for constructing the project, and cost and schedule. It will also provide an opportunity for the Evaluation Committee to seek clarification of the Offeror’s design solution. Ninety (90) minutes will be allotted for each interview to include a thirty (30) minute question and answer session by the Selection Committee. Points will be allocated by each member of the Committee. Each member’s point totals will be translated into a numeric ranking of the interviewed firms. Individual member rankings will be totaled together to determine the overall ranking after the interview. Points received from Phase I evaluation will only be used or carried over to the Phase II evaluation in the event of a tie. All calculations of point standings shall occur during the Evaluation Committee meeting for this project with all members in attendance.
16. Notice of Intent to Award – The Procurement Specialist will notify the selected Offeror in writing of the final intent to award. This notice will include the overall rankings for the project award. At this time, the Purchasing Division will maintain at least one copy of each Offeror’s Proposal. Proposals are opened for public inspection after the award and conclusion of successful contract negotiations. Any unsuccessful Offeror wishing to retrieve all copies of their Bid must do so within one (1) month after the Notice of Intent to Award.

17. Contract Negotiations – The Owner and successful Offeror will begin contact negotiations as soon as possible after the Notice of Intent to Award. If contract negotiations are not finalized within thirty (30) days after Notice of Intent to Award, Owner may terminate negotiations with the selected Offeror and begin negotiations with the next ranked Offeror based on final ranking.
18. Right to Protest and Protest Period – In accordance with § 13-1-172 NMSA 1978, any Offeror who is aggrieved in connection with a solicitation or the award of a contract may protest in writing to the Procurement Manager. Any protest by an Offeror must be timely, in conformance with, and will be governed by §13-1-172 through §13-1-176 NMSA 1978 and Valencia County Procurement Policy. Protests must be written and must include the name and address of the protestor and the Request for Proposals number. It must also contain a statement of grounds for protest including appropriate supporting exhibits, and it must specify the ruling requested from the Purchasing Agent. The protest must be delivered to the Purchasing Agent. The written protest must be submitted within fifteen (15) calendar days after knowledge of the facts or occurrences giving rise to the protest. Protests must be submitted in written form to:

Mr. Rustin Porter, Purchasing Agent

rustin.porter@co.valencia.nm.us

Physical Address:

444 Luna Avenue

Los Lunas, NM 87031

Mailing Address:

P.O. Box 1119

Los Lunas, NM 87031

Phone: 505-866-2005

Fax: 505-866-2424

Protests must include the name and address of the protestant, the solicitation number, and the statement of grounds for the protest, including appropriate supporting exhibits. Protests received after the deadline will not be accepted.

J. GENERAL REQUIREMENTS INFORMATION

This Section contains information regarding the RFP process and conditions under which this RFP is issued and how the intended project will be completed.

This procurement will be conducted in accordance with the New Mexico Procurement Code (13-1-28 NMSA 1978) and Valencia County Procurement Policy (#401-01-3, Resolution 2005-68).

Acceptance of Conditions Governing the Procurement - Offerors must indicate their acceptance of the Conditions Governing the Procurement in the letter of transmittal form

(Appendix D). see Submission of a Proposal constitutes acceptance of the Evaluation Factors contained in Section V of this RFP.

Incurring Cost – Except as otherwise provided herein, any cost incurred by the Offeror in preparation, transmittal, presentation of Phase II Bid or material or negotiation associated with their response to this RFP shall be borne solely by the Offeror.

Design Builder Responsibility – Any contract that may result from this RFP shall specify that the Design Builder is solely responsible for fulfillment of the contract with the County. The County will only make contract payments to the Design Builder.

Subcontractors – Use of Subcontractors must be clearly explained in the Proposal and each must be identified by name. The Design Builder shall be wholly responsible for contract performance whether Subcontractors are used. Substitution of Subcontractors, after Contract Award, must receive prior written approval of the County Purchasing Office.

Amended Proposals – An Offeror may submit an amended Proposal before the deadline for receipt of Proposals. Such amended Proposals must be complete replacements for a previously submitted Proposal and must be clearly identified as such in the transmittal letter. County personnel will not merge, collate, or assemble Proposal materials.

Offeror's Rights to Withdraw Proposal– Offerors will be allowed to withdraw their Proposals at any time prior to the deadline for receipt of Proposals. The Offeror must submit a written withdrawal request signed by the Offeror's duly authorized representative addressed to the Procurement Manager. The approval or denial of withdrawal requests received after the deadline for receipt of the Proposals is governed by the applicable procurement regulations.

Proposal Offer Firm – Responses to this RFP, including Proposal prices, will be considered firm for ninety (90) days after the due date for receipt of Proposals or sixty (60) days after the due date for the receipt of a best and final offer, if one is solicited.

Disclosure of Proposal Contents – The Proposals will be kept confidential until a contract is awarded by the awarding authority. At that time, all Proposals and documents pertaining to the Proposals will be open to the public, except for material which is proprietary or confidential. The Procurement Manager will not disclose or make public any pages of a Proposal on which the Offeror has stamped or imprinted “proprietary” or “confidential” subject to the following requirements.

- Proprietary or confidential data shall be readily separable from the proposal in order to facilitate eventual public inspection of the remaining portions of the Proposal. Confidential data is normally restricted to confidential financial information concerning the Offeror's organization and data that qualifies as a trade secret in accordance with the Uniform Trade Secrets Act, 57-3A-1 to 57-3A-7 NMSA 1978. The price of products offered or the cost of services proposed shall not be designated as proprietary or confidential information.

- If a request is received for disclosure of data for which an Offeror has made a written request for confidentiality, the Purchasing Agent shall examine the Offeror's request and make a written determination that specifies which portions of the proposal should be disclosed. Unless the Offeror takes legal action to prevent the disclosure, the proposal will be so disclosed. The proposal shall be open to public inspection subject to any continued prohibition on the disclosure of confidential data.

No Obligation – This procurement in no manner obligates Valencia County or any of its departments to enter a Contract with any Offeror, until a valid written contract is approved by the Purchasing Agent and other required approval authorities.

Sufficient Appropriation – Any Contract Awarded as a result of this RFP process may be terminated if sufficient appropriations or authorizations do not exist. Such termination will be affected by sending written notice to the Design Builder. The County's decision as to whether sufficient appropriations and authorizations are available will be accepted by the Contractor as final.

Legal Review – The County requires that all Offerors agree to be bound by the General Requirements contained in this RFP. Any Offeror concerns must be promptly brought to the attention of the Procurement Manager.

Governing Law; Venue – This procurement and any agreement with Offerors that may result shall be governed by the laws of the State of New Mexico. Venue for any action arising out of this solicitation will lie exclusively within the Thirteenth Judicial District Court in Valencia County.

Basis for Proposals – Only information supplied by the County in writing through the Procurement Manager or in this RFP should be used as the basis for the preparation of Offeror Proposals.

Offeror's Terms and Conditions – Offeror's must submit with their proposal a complete set of any additional terms and conditions which they request be included in a contract negotiated with the County. The County may or may not accept the additional language, at the County's sole discretion.

Contract Deviations – Any additional terms and conditions, which may be the subject of negotiation, will be discussed only between the County and the selected Offeror and shall not be deemed an opportunity to amend the Offeror's proposal.

Offeror Qualifications – The Evaluation Committee may make such investigations as necessary to determine the ability of the Offeror to adhere to the requirements specified within this RFP. The Evaluation Committee will reject the Proposal of any Offeror who is not a responsible Offeror or fails to submit a responsive offer as defined in §13-1-83 and 13-1-85 NMSA 1978.

Right to Waive Minor Irregularities – The Evaluation Committee reserves the right to waive minor irregularities. The Evaluation Committee also reserves the right to waive mandatory requirements if all of the otherwise responsive Proposals failed to meet the same mandatory requirements or doing so does not otherwise materially affect the procurement. This right is at the sole discretion of the Evaluation Committee.

Change in Design Builder’s Representatives – The County reserves the right to require a change in the Design Builder’s representatives if the assigned representatives are not, in the opinion of the County, meeting its needs adequately.

Notice – The Procurement Code, §13-1-28 through 13-1-199 NMSA 1978, imposes civil and misdemeanor criminal penalties for its violation. The State of New Mexico criminal statutes also impose felony penalties for bribes, gratuities and kickbacks.

County Rights – The County reserves the right to accept all or a portion of an Offeror's Proposal.

Ownership of Proposals – All documents submitted in response to the RFP shall become the property of the County. However, any technical or user documentation submitted with the Proposals of non-selected Offerors may be returned after the expiration of the protest period, by request, at the expense of the Offeror.

Ambiguity, Inconsistency or Errors in RFP – Offerors shall promptly notify the Procurement Manager, in writing, of any ambiguity, inconsistency or error which they discover upon examination of the RFP.

Competition – By submitting a Proposal, Offeror certifies that they have not, either directly or indirectly, entered into any action in restraint of full competition in connection with the Proposal submitted to the County.

Confidentiality – Any confidential information provided to, or developed by, the Design Builder in the performance of any agreement resulting from this RFP shall be kept confidential and shall not be made available to any individual or organization by the Design Builder without the prior written approval of the County of Valencia.

Electronic mail address required – A large part of the communication regarding this procurement will be conducted by electronic mail (e-mail). Offeror must have a valid e-mail address to receive this correspondence.

Use of Electronic Versions of this RFP – This RFP is being made available by electronic means. If accepted by such means, the Offeror acknowledges and accepts full responsibility to ensure that no changes are made to the RFP. In the event of conflict between a version of the RFP in

the Offeror's possession and the version maintained by the County, the version maintained by the County shall govern.

Roles and Responsibilities of the Design Build Team – The following general services shall be provided by the Design Build Team in connection with the Project. The Design Build Team shall at a minimum:

- Become fully informed about the Project and have the experience and ability necessary to perform the related services.
- Provide human resources, equipment, and facilities necessary to furnish the required services through all phases of the Project. This shall include, but not be limited to:
 - Coordinating and working closely with the Owner's Project Manager, the Owner's Healthcare Consultant, and Owner's Representative.
 - Site Development and Planning.
 - Coordinating and completing utility connections.
 - Consider the Owner's and Owner's Healthcare Consultant's input on conceptual design.
 - Provide design development documents at 30%, 60%, 90%, and final.
 - Make presentations to and obtain feedback from the Owner, and the Owner's Healthcare Consultant.
 - Prepare plans, specifications, and construction documents (all materials used in construction shall meet all applicable code and regulatory requirements).
 - Obtain approval for the Project budget and Design from the County's Project Team at the completion of the various phases of design and construction document development to assure that the actual construction costs remain within the Project budget.
 - Provide general Architectural / Engineering (A/E) supervision and contract administration during construction.
 - Provide on-site observation during construction.
 - Analyze alternatives and design the most sustainable project consistent with economic feasibility, environmental characteristics, expected life of improvement, operations and maintenance, energy conservation and state-of-the-art technology.
 - Perform required services in an expeditious manner to coincide with the Project schedule.
 - Furnish qualified construction personnel who keep the County's team advised on A/E matters pertaining to the construction of the Project, and who will work towards the goals of obtaining results prescribed by the plans and specifications. This shall require cooperate between the County's team and the designated Project Manager with meetings on a weekly basis.
 - Possess professional ethics and qualifications and represent the County in accordance with a high standard of professional conduct.
 - Secure all applicable building permits and zoning approvals.

Roles and Responsibilities of the County's Team The following general services shall be provided by the County's Team in connection with the Project. The County's Team shall at a minimum:

- Provide a Phase 1 Environmental Site Assessment of the project site.
- Provide replating of property, property metes and bounds survey, and topographical survey.
- Provide Geotechnical Evaluation for the proposed site.
- Provide a third party Health Care Consultant to provide periodic reviews of the design, respond to questions and concerns related to facility operations, ensure the design meets scheduled milestones, and facilitate procurement and installation of specialized health care equipment.
- Provide facilitation to the acquisition by the Design Builder, building permits and zoning approvals as may be necessary.
- Examine documents submitted by the Design Build team and render decisions promptly to avoid unreasonable delay in the project.
- If the County observes or otherwise becomes aware of any fault or defect in the Project or nonconformance with the Contract Documents, prompt written notice thereof shall be given by the County to the Design Build team.

Consultants, Construction Contractors, and Subcontractors – Since the award is made on the qualifications-based evaluation process, replacement of Consultants, Construction Contractors, and Subcontractors after Notice of Award, and prior to the contract execution may cause the Offeror to be disqualified. The Design Builder must perform all work that may result from this RFP, and payments will be made only to the Design Builder. Use of Consultants, Construction Contractors, and Subcontractors identified in the proposal is required due to the award of the contract based upon a qualifications-based evaluation process. Assignment of the responsibilities of the identified Consultants, Construction Contractors, and Subcontractors portion of the work to another entity is not permitted. Use of Consultants, Construction Contractors and Subcontractors must be clearly explained in the proposal, and major Consultants, Construction Contractors and Subcontractors must be identified by name. The Design Builder shall be wholly responsible for the entire performance whether or not Consultants, Construction Contractors and Subcontractors are used.

Termination – This RFP may be cancelled at any time and any and all Proposals may be rejected in whole or in part when the County determines such action to be in the best interest of the County.

Contract Terms and Conditions – The County will utilize the AIA Document A141-2014, Standard Form of Agreement Between Owner and Design-Builder (Appendix E – Standard Form of Agreement between Owner and Design Builder), required Exhibits, and Supplemental Conditions containing the terms and conditions set forth by the County and Federal

procurement regulations. Any questions about the contract terms and conditions must be brought to the attention of the Procurement Specialist.

Contract Deviations – Any additional terms and conditions which may be the subject of negotiation, will be discussed only between the County and the selector Offeror and shall not be deemed an opportunity to amend the Offeror’s Proposal.

Clarification from Offerors – The Selections Committee after review of the Proposals and/or interviews may request clarifications on information submitted by any and all Offerors in a written format with a specified deadline for response.

Release of Information – Only the Procurement Manager is authorized to release information about the Project covered by this RFP. Offerors must refer to the Procurement Manager any requests to release any information that pertains to the work or activities covered by any action or award related to this RFP.

Right to Publish – Throughout the duration of this procurement process and contract term, potential Offerors must secure from the County written approval prior to the release of any information that pertains to the potential work or activities covered by this procurement or subsequent contract. Failure to adhere to this requirement may result in disqualification of the Offeror’s Bid or termination of the contract.

Hold Harmless – If service delivered hereunder is covered by any patent, copyright, trademark or application thereof, the Design Build Team will indemnify and hold the County harmless from any and all losses, costs, expenses, and legal fees on account of any claims or legal actions filed for infringement of such rights by the Design Build Team.

Purchase Order – The County will not be responsible for any service performed without its written and approved purchase order, contract or approved change undersigned by the authorized representative.

Compliance with Applicable Laws – The Design Build Team shall comply with all federal and state laws and regulations pertaining to work under its charge and shall bear all expenses associated with such compliance. The Design Build Team agrees to comply with state laws and rules applicable to worker’s compensation benefits for its employees. If the Design Build Team fails to comply with applicable worker’s compensation laws and rules, the County may terminate the contract. The Design Build Team will be responsible for obtaining all required insurance.

Conflict of Interest – The Design Build Team shall warrant that it presently has no interest and will not acquire any interest, directly or indirectly, which could conflict in any manner or degree with the performance of service under the award of the contract.

Stipend – At the conclusion of Phase II of this RFP, those short-listed firms who were not selected for contract negotiations will receive a flat stipend of **\$10,000.00 inclusive** of NMGRT, payable within thirty (30) days of a written Award of Contract, notwithstanding the provisions described under “Incurring Cost”. The stipend payment may be denied if the “non-selected”, short-listed firm fails to submit an acceptable design solution with their Phase II response.

Proposal Bond – Securing in the amount of not less than five percent (5%) of the total amount of the Proposal submitted is required of each short-listed, selected Offeror. An acceptable Bond or Cashier’s Check must accompany each Proposal as a guarantee that, if awarded the contract, the Offeror will enter a contract promptly and execute the required Contract Documents. The successful Offeror’s security will be retained until they have signed a contract and furnished required Payment and Performance Bonds. The security will become part of the County as liquidated damages for delay and additional expenses caused thereby in the event that the contract is not executed and/or acceptable one-hundred percent (100%) Performance and Payment bonds are not delivered within the time set forth. The County reserves the right to retain the security of the next two ranked Offerors until the accepted Offeror enters a contract or until forty-five (45) days after the receipt of Proposals, whichever is shorter. All other security will be returned within seven (7) days of the selection announcement.

K. RESPONSE FORMAT, ORGANIZATION, AND SPECIFICATIONS**1. Number of Responses**

Only one Proposal may be submitted by each Design-Build Team (Offeror) for this project. Offerors shall provide:

- a. one original plus
- b. seven (7) identical copies plus
- c. one digital copy on CD-ROM or a thumb drive of their Bid.

2. Proposal Format

The Proposal shall not be limited in length. Format will be 8-1/2" x 11" with foldout sheets allowed up to 11" x 17" in size. If there is any question as to format requirements contact the Procurement Manager for clarification prior to submittal of the Proposal. There is no page limitation for Proposals.

Materials:

- Front Cover (photos with captions cover allowed)
- Transmittal letter (Appendix D)
- Table of Contents page (one-page maximum)
- Divider pages (blank except for title information)

II. Proposal Submittal Requirements

1. Project Staffing
2. Past Record of Performance
3. Design Solution
4. Quality of Construction Approach
5. Management Plan for Constructing the Project
6. Cost Response Form
7. Project Schedule

V. Supplement to Proposal

- A. Proposal Bond
- B. Certificate As To Corporate Principle
- D. Agent's Affidavit
- E. Subcontractor's Listing, NMDWS Registration and Assignment of Antitrust Claims
- F. Certification of Offeror Regarding Equal Employment Opportunity
- G. Non-Collusion Affidavit of Offeror

Back cover (photos with captions on back cover allowed)

Proposal Organization – All pages shall be numbered. Proposals shall be organized and tabbed in the same order as the evaluation criteria.

L. INSURANCE REQUIREMENTS

CONTRACTOR'S AND SUBCONTRACTOR'S PUBLIC LIABILITY, VEHICLE LIABILITY, AND PROPERTY DAMAGE INSURANCE

Insurance Policies shall be written for not less than the following or greater if required by law. Additional conditions to the insurance requirements are described within AIA-A141 Exhibit B – Insurance and Bonds.

1. Worker's Compensation (including accident and occupational disease coverage):

- a. State Statutory
- b. Employer's Liability \$ 100,000 each accident
\$ 500,000 disease-policy limit
\$ 100,000 disease-each employee
- c. Commercial General Liability insurance shall be written with limits no less than \$1,000,000 each occurrence, a \$2,000,000 general aggregate and a \$2,000,000 products-completed operations aggregate limit, providing coverage for claims including
 - 1) damages because of bodily injury, sickness or disease, including occupational sickness or disease, and death of any person;
 - 2) personal injury;
 - 3) damages because of injury to or destruction of tangible property;
 - 4) bodily injury or property damage arising out of completed operations; and
 - 5) contractual liability applicable to the Design-Builder's obligation of this Agreement.

2. Comprehensive Automobile Liability:

- a. Bodily Injury \$ 500,000 per person
\$ 1,000,000 each occurrence
- b. Property Damage \$ 500,000 each occurrence
\$ 500,000 annual aggregate
- c. Umbrella Excess Liability: \$10,000,000 over primary insurance
- d. Professional Liability Insurance \$10,000,000 each occurrence
\$12,000,000 annual aggregate

BUILDER'S RISK INSURANCE

The **Design Builder** will maintain Builder's Risk Insurance (fire and extended coverage) on a 100

percent completed value basis on the insurable portions of the project for the benefit of the Owner, the Contractor, and all subcontractors, as their interests may appear.

SUBCONTRACTOR INSURANCE

1. The Contractor shall either:
 - a. Require each of his subcontractors to procure and to maintain during the life of his subcontract, Subcontractor's Public Liability and Property Damage of the type and in the same amounts as specified in the preceding paragraph, or
 - b. Insure the activities of his subcontractors in his own policy.

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II. PROPOSAL SUBMITTAL REQUIREMENTS

A. PROPOSAL SUBMITTAL REQUIREMENTS OF THE DESIGN BUILDER

Offeror shall provide Technical Submittals as enumerated below for evaluation in accordance with Section I Request for Proposals, Paragraph H, Phase II Evaluation Criteria.

1. PROJECT STAFFING

Offeror must indicate that the Project Staffing information provided within the Phase I RFP has not changed, otherwise provide the following:

- a. Provide an organizational chart of key project personnel and address how critical Subcontractors will be selected and managed.
- b. Design Team: Submit resumes for the Design Team Project Manager, Project Architect, Design Quality Control Manager, and other key members of the design team that will be assigned to this project. Also, describe as many as three (3) previous partnering / teaming arrangements with construction teams and any Design-Build projects.
- c. Construction Team: Submit resumes for all key personnel (PM, QCM, Safety Manager and Project Superintendent) that demonstrates technical qualifications in all disciplines required to perform work similar to that described in the RFP. Also describe as many as three (3) previous partnering / teaming arrangements with construction teams and any Design-Build projects.

2. PAST RECORD OF PERFORMANCE

Offeror must indicate that the Past Record of Performance information provided within the Phase I RFP has not changed, otherwise provide the following:

- a. The assessment of the Offeror's past performance will be used as a means of evaluating the relative capability of the Offeror's to successfully meet the requirements of the RFP. The Offeror must provide the information requested below for past performance evaluation or affirmatively state that it possesses no relevant, directly related, or similar past performance.
- b. Design Team: submit past performance data on as many as three (3) projects that demonstrate design past performances, in performing similar in scope, size and complexity to that described in the RFP. Include design awards, customer letters of recommendation etc., with points of contact and telephone numbers.
- c. Construction Team: submit past performance data on as many as three (3) projects that demonstrate design past performances, in performing similar in scope, size and

complexity to that described in the RFP. Include design awards, customer letters of recommendation etc., with points of contact and telephone numbers.

- 1) Information on previous design-build projects to include clear descriptions of the specific roles of the design and construction team Owner's project budget, final construction cost estimates, Proposal Price including accepted alternates, total number and cost of Change Orders.
- 2) Explain any project difficulties and how the Offeror handled these issues.
- 3) Attach Contractor's Final Application and Certification of Payment (AIA Form G702 or equal) for these design build project.
***Offerors are cautioned that the Selection Committee will use data provided by the teaming partners as well as data obtained from other sources in the evaluation of past performance.*

3. DESIGN SOLUTION

Offeror is to prepare conceptual images and drawings that illustrate the architectural image of the proposed facility and to confirm compliance with the Bridging Documents Space Program. These conceptual images and drawings shall include at a minimum:

Conceptual Site Plan: Identifies and describes the following site components:

- Hospital building footprint of 38,600 SF.
- Vehicle traffic circulation from adjacent roadways, circulation on the site, and vehicle exit from the site.
- Delivery and Waste Truck circulation from adjacent roadways, circulation on the site and truck exit from the site.
- Ambulance circulation from adjacent roadways, circulation on the site, and ambulance exit from the site.
- Indication of existing roadway modification required to accommodate vehicle and truck access to the site.
- Pedestrian circulation from adjacent roadways, circulation on the site and into the facility.
- Location of facility delivery docks and waste disposal dumpsters.
- Locations of Staff, Visitor and Patient parking
- Storm water retention areas
- Location of Helipad.
- Area for future Hospital expansion with a footprint of 18,750 SF.
- Area for future Medical Office Building with a footprint of 24,500 SF.
- Proposed areas for landscape and irrigation.

Conceptual Hospital Floor Plan: Utilized to illustrate compliance with the Program of Spaces and includes:

- Identification of, and indication of adjacency, for the primary hospital departments and primary support spaces.
- Primary circulation paths (distinguish between public and nonpublic circulation)
- Public, Staff, and Emergency Department entrances
- Indication of Patient Flow
- Department Space Schedule indicating conformance with the minimum department square footage requirements.

Conceptual Elevations: Utilized to illustrate fenestration and exterior finishes.

- Colored exterior elevations from the primary cardinal directions.
- Indicate exterior fenestration type and glazing.
- Indicate proposed exterior finishes.
- Indicate building height.

The Offeror shall identify and describe any unique characteristics that the Offeror is proposing. Additionally, the Offeror shall perform a critical analysis of the proposed solution and identify the benefits of the design, and any drawbacks, determined from the critical analysis.

4. QUALITY OF CONSTRUCTION APPROACH

Offeror is to describe the facility structural system, mechanical system, electrical and lighting systems, plumbing system, medical gas system, envelope fenestration, roof structure, door and hardware components, architectural casework, architecture finishes, and the quality and durability of finishes that have been included as part of the Proposal. The discussion shall include and describe any system enhancements to:

- Reduce life cycle costs of the building.
- Reduce energy use.
- Provide for enhanced lighting controls.
- Promote day lighting.
- Reduce maintenance costs.
- Optimize thermal control.
- Facilitate future expansion, including expansion of mechanical, electrical, and plumbing, medical gas systems and future interior renovation.
- Reduce water usage.
- Promote sustainable design principals.

5. MANAGEMENT PLAN FOR CONSTRUCTING THE PROJECT

The Offeror shall describe how the construction will be managed, including:

- Any enhancements to the personnel and procedures identified in the Phase I Qualification Statement.
- Describe how the construction will be managed including, the communication strategy, construction schedule, safety controls, site specific safety plans, safety auditing, SWPPP management, emergency procedures, site security, material staging and delivery routes.
- Address project specific construction risks that the Design Build Team has identified, and state how those risks will be mitigated.
- Describe Construction Project Management software to be utilized and provide description as to how the software will enhance and possibly accelerate the construction process.
- Describe any construction options that may be utilized by the Design Builder to accelerate the construction process (Fast Track Construction).

6. COST RESPONSE FORM

The Offeror shall include a copy of the Cost Response Form within this section for evaluation by the selection committee.

7. PROJECT SCHEDULE

The Offeror shall prepare and submit a realistic Project Schedule showing the start and completion dates for all major activities and phases of the work, including:

- Expected contract execution date,
- Anticipated Notice to Proceed date.
- Duration of the project design phase.
- Duration required for design reviews at the 30%, 60%, 90%, and 100% Construction Document phases.
- Permits and other agency reviews and approvals.
- Construction by major activity.
- FF and E Installation
- Punch List and Substantial Completion – **March 30, 2026**
- Certificate of Occupancy

Additionally, the Offeror is to describe the ability and the commitment of the Offeror to deliver the project within the allotted time frame, and the methods to be utilized to recover the schedule in case of schedule slip.

This schedule will be a part of the information used in the evaluation process to select the Design Builder. Points will be awarded on basis of viability of the schedule presented and the extent to which completion is within the required Project Time allowance.

III. GOVERNING REQUIREMENTS

A. GOVERNING REQUIREMENTS IMPOSED UPON THIS PROCUREMENT

The successful offeror will be required to conform to applicable laws and regulations for federal procurement.

B. DEBARRED OR SUSPENDED CONTRACTORS

1. A business (contractor, subcontractor or supplier) that has either been debarred or suspended pursuant to the requirements of Sections §13-1-177 through §13-1-180, and §Sections 13-4-11 through §13-4-17 NMSA 1978 as amended, shall not be permitted to do business with the Owner and shall not be considered for award of contract during the period for which it is debarred or suspended with the Owner.
2. Debarment and Suspension (Executive Orders 12549 and 12689) – A contract award (see 2 CFR 180.220) must not be made to parties listed on the governmentwide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 1989 Comp., p. 235), “Debarment and Suspension.” SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

C. FEDERAL AND STATE LAWS AND REGULATIONS

1. Coronavirus State and Local Fiscal Recovery Funds are Federal funds. (CSFRF) Section 13-1-30B NMSA 1978 of the Procurement Code stipulates: "When a procurement involves the expenditure of federal funds, the procurement shall be conducted in accordance with mandatory applicable federal law and regulations. When mandatory applicable federal law or regulations are inconsistent with the provisions of the Procurement Code, compliance with federal law or regulations shall be compliance with the Procurement Code." The applicable governing federal procurement standards are defined in OMB Circular A-102, Attachment O. When federal and state procurement policies are different, the more restrictive policies apply so long as they are consistent with Circular A-102 standards. OMB Circular A-102, Attachment O is expressly incorporated as part of this procurement, and in any resulting award.
2. For purposes of these Bidding Documents, the term "Grantee" means the Owner. The term "Funding Agency" means the United States Department of the Treasury.

D. REGISTRATION OF CONTRACTORS AND SUBCONTRACTORS

1. A contractor or subcontractor that submits a bid valued at more than \$60,000 for a public works project subject to the Public Works Minimum Wage Act shall be registered with the Labor and Industrial Division of the New Mexico Department of Workforce Solutions (NMDWS).
2. The contractor submitting a bid and all subcontractors must have a Dun and Bradstreet Number (DUNS) and registration with System of Awards Management (SAM).
3. A contractor or subcontractor that submits a bid regardless of the contract amount must be licensed, registered, and cannot be debarred. For any contracts \$60,000 and over the contractor or subcontractor must be current with annual Labor Enforcement Fund payments.
4. The Owner shall not accept a bid on a public works project from a Contractor that does not provide proof of required registration for itself (§13-4-13.1 NMSA 1978). Contractors, prime contractors and subcontractors shall be registered with the NMDWS.
5. See Bid Form and Subcontractor Listing form for Registration Numbers to be provided.

E. BYRD ANTI-LOBBYING AMENDMENT (31 U.S.C. 1352)

1. The Bidder or Offeror certifies by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:
 - a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the Bidder or Offeror, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
 - b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
 - c. The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code.

Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

F. CERTIFICATION REGARDING DOMESTIC PREFERENCES FOR PROCUREMENTS

The Bidder or Offeror certifies by signing and submitting this bid or proposal that, to the greatest extent practicable, the Bidder or Offeror has provided a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including, but not limited to, iron, aluminum, steel, cement, and other manufactured products) in compliance with 2 CFR § 200.322.

G. EXAMINATION OF PROPOSAL DOCUMENTS

1. Before submitting an Offer, each Offeror must:
 - a. Examine the Proposal Documents thoroughly;
 - b. Familiarize himself with federal, state, and local laws, ordinances, rules, and regulations that may in any manner affect cost, progress, or performance of the Work.
 - c. Notify the County Purchasing Agent of any discrepancies within the RFP documents.
2. The submission of an Offer will constitute an incontrovertible representation by the Offeror that he has complied with every requirement of this Part and that the Proposal Documents are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for performance of the Work.

H. SUBCONTRACTORS

1. Subcontractors
 - a. The offeror shall list the Subcontractors he proposes to use for all trades or items on the Subcontractor Listing Form attached to the Bidding Documents.
 - b. Definitions. As used in this subpart 4.5, subcontractor listing shall be in compliance with the Subcontractors Fair Practices Act, the pertinent provisions of which are summarized in this subpart 4.5.
 - 1). *Contractor* means the prime contractor on a public works construction project who contracts directly with the Owner (using agency);
 - 2) Subcontractor is a person or entity often skilled in a specific type of construction work that enters into a contractual agreement with the prime contractor to perform part or all of the construction work.
 - 3) Listing threshold means the dollar amount, stipulated in the proposal documents, above which subcontractors must be listed;
 - 4) Notice means information, advice or a written warning intended to apprise a contractor or subcontractor of some proceeding in which his interests are involved or to inform him of some fact which is his right to know. Notice may be sent to a contractor or subcontractor by certified or registered mail and shall be deemed to

- be completed upon date of mailing; and
- 5) Using Agency means the Owner requiring services or construction.
2. Listing of Subcontractors, Requirements. The Owner shall provide in the proposal documents prepared for that project a listing threshold which shall be \$5,000 or one-half of one percent of the architect's or engineer's estimate of the total project cost, whichever is greater. Any person submitting a proposal shall in his proposal set forth:
 - a. The name location of the place of business of each subcontractor under subcontract to the contractor who will perform work or labor or render service to the contractor in or about the construction of the public works construction project in an amount in excess of the listing threshold; and
 - b. The nature of the work which will be done by each subcontractor under the Subcontractor Fair Practices Act. The contractor shall list only one subcontractor for each category as defined by the contractor in his bid.
 3. Substitution of Subcontractor
 - a. No contractor whose proposal is accepted shall substitute any person as subcontractor in place of the subcontractor listed in the original proposal, except that the using agency shall consent to the substitution of another person as a subcontractor in the following circumstances:
 - 1) When the subcontractor listed in the proposal, after having had a reasonable opportunity to do so, fails or refuses to execute a written contract, when such written contract, based upon the general terms, conditions, plans and specifications for the project involved and the terms of such subcontractor's written proposal, is presented to him by the contractor;
 - 2) When the subcontractor listed in the original proposal becomes bankrupt or insolvent prior to execution of a subcontract;
 - 3) When the using agency refuses to approve the subcontractor listed in the original proposal, provided such approval has been reserved in the proposal documents;
 - 4) When the subcontractor listed in the original proposal fails or refuses to perform his subcontract;
 - 5) When the contractor demonstrates to the using agency or its duly authorized officer that the name of the subcontractor was listed as the result of an inadvertent clerical error;
 - 6) When a proposal alternate accepted by the using agency causes the listed subcontractor's proposal not to be low;
 - 7) When the contractor can substantiate to the using agency that a listed subcontractor's proposal is incomplete;
 - 8) When the listed subcontractor fails or refuses to meet the bond requirements of the contractor;
 - 9) When it is determined that the listed subcontractor does not have a proper license to perform the work and the contractor has submitted the name of the subcontractor along with proof that the subcontractor bid work for which he was not licensed by the construction industries division of the regulation and licensing department; or

- 10) When it is determined by the using agency, the prime contractor or the Director of the Labor and Industrial Division of the Labor Department that a listed subcontractor is not a registered subcontractor on the date proposals are submitted for consideration.
4. Prior to approval of the contractor's request for such substitution, the Owner shall give notice in writing to the listed subcontractor of the contractor's request to substitute and of the reasons for such request. Such notice shall be served by certified or registered mail to the last known address of the subcontractor. The listed subcontractor who has been so notified has 5 working days within which to submit written objections to the substitution to the Owner. Failure to file such written objections shall constitute the listed subcontractor's consent to the substitution. If written objections are filed, the Owner shall give at least 5 working days' notice in writing to the listed subcontractor of a hearing by the Owner on the contractor's request for substitution.
 5. No contractor whose proposal is accepted shall permit any such subcontract to be voluntarily assigned or transferred or allow it to be performed by anyone other than the original subcontractor listed in the original proposal without the consent of the Owner.
 6. No contractor whose proposal is accepted, other than in the performance of change orders causing changes or deviations from the original contract, shall sublet or subcontract any portion of the work in excess of the listing threshold as to which his original proposal did not designate a subcontractor unless the contractor fails to receive a proposal for a category of work. Under such circumstances, the contractor may subcontract. The contract shall designate on the listing form that no bid was received.
 - a. Subcontractor Bond, Requirements. As to subcontractor required performance and payment bond if requested by the contractor, see §13-4-37 NMSA 1978.
 - b. Failure to Specify Subcontractor. If a contractor fails to specify a subcontractor in excess of the listing threshold, he represents that he is fully qualified to perform that portion himself and that he shall perform that portion himself. If after the award of the contract the contractor subcontracts any portion of the work, except as provided in the Subcontractors Fair Practices Act, the contractor shall be guilty of violation of the Subcontractors Fair Practices Act and subject to the penalties provided in subpart 4.5.9 of this section.
 7. Inadvertent Clerical Error.
 - c. The contractor, as a condition to assert a claim of inadvertent clerical error in the listing of a subcontractor, shall within 2 working days after the time of the submission of the Offeror give written notice to the Owner and to both the subcontractor he claims to have listed in error and the subcontractor who had bid to the contractor prior to bid opening.
 - d. Any listed subcontractor who has been notified by the contractor in accordance with the provisions of this section as to an inadvertent clerical error shall be allowed 6 working days from the time of submission of the proposal within which to submit to the Owner and to the contractor written objection to the contractor's claim of inadvertent clerical error. Failure of such listed subcontractor to file such written notice within 6 working days shall be primary evidence of his agreement that an inadvertent clerical error was made.

- e. The Owner shall, after a public hearing and in the absence of compelling reasons to the contrary, consent to the substitution of the intended contractor:
 - 1) If the contractor, the subcontractor listed in error, and the intended subcontractor each submit an affidavit to the Owner, along with such additional evidence as the parties may wish to submit, that an inadvertent clerical error was in fact made, provided that the affidavits from each of the three parties are filed within eight working days from the time of submission of the proposals; or
 - 2) If such affidavits are filed by both the contractor and the intended subcontractor within such specified time but the subcontractor whom the contractor claims to have listed in error does not submit within six working days to the Owner and to the contractor written objection to the contractor's claim of inadvertent clerical error as provided in this section.
 - f. If such affidavits are filed by both the contractor and the intended subcontractor but the listed subcontractor has within six working days from the time of submission of the proposals to the Owner and to the contractor written objection to the contractor's claim of inadvertent clerical error, the Owner shall investigate the claims of the parties and hold a public hearing to determine the validity of such claims. Any determination made shall be based on facts contained in the affidavits submitted by all three parties and supported by testimony under oath and subject to cross-examination. The Owner may on its motion or that of any other party admit testimony of other contractors, any bid registries or depositories, or any other party in possession of facts that may have a bearing on the decision of the Owner.
8. Emergency Subcontracting. Subcontracting any portion of the work in excess of the listing threshold as to which no subcontractor was designated in the original proposal shall be permitted only in the case of public emergency or necessity and then only upon a written finding by the Owner setting forth the facts constituting the emergency or necessity.
9. Penalties.
- a. A contractor who violates the provisions of the Subcontractors Fair Practices Act violates his own contract, and the Owner may exercise the option of:
 - 1) Canceling the contract; or
 - 2) Assessing the contractor a penalty in an amount of not more than ten percent of the amount of the subcontract involved but in no case less than the difference of the amount between the listed subcontractor and the subcontractor used, which penalty shall be deposited into the fund out of which the contract is awarded. In any proceeding under this subpart, the contractor shall be entitled to a hearing after notice.
 - b. A violation of the provisions of the Subcontractors Fair Practices Act constitutes grounds for disciplinary action against a contractor pursuant to regulations of the Construction Industries Division of the Regulation and Licensing Department.
 - c. A contractor who attempts to circumvent the provisions of the Subcontractors Fair Practices Act shall be subject to the penalties established pursuant to this subpart.
10. Dispute Resolution. Once the Owner has determined the existence of a valid claim under

the provisions of the Subcontractors Fair Practices Act, the Owner or agent of the Owner may:

- a. Hold a public hearing for the purpose of providing an informal resolution of the dispute by preparing a "front of dispute" which shall be available to all parties. The form shall state concisely, in numbered paragraphs, the matter at issue or dispute that the complainant expects to be determined. The agent or the Owner shall evaluate the issues presented by both sides of the dispute and render a decision within 10 days after the hearing, and provide the parties with a written copy of the decision by certified mail, return receipt requested; or
 - b. Refer the matter in dispute to be resolved through arbitration.
11. The Offeror shall not list himself as the supplier or as the Subcontractor for any trade unless he has previously performed work of this type or can prove to the Architect's/Engineer's and the Owner's satisfaction that he actually has, or will obtain, fully adequate facilities and plans to perform the work with his own forces.
 12. Failure to comply with subcontractor listing requirements or provisions of the Subcontractors Fair Practices Act shall be grounds for considering a Proposal as nonresponsive.
 13. Prior to the award of the Contract, the Architect/Engineer will notify the Offeror in writing if either the Owner or the Architect/Engineer, after due investigation and written findings of fact, has reasonable and substantial objection to any person or organization on such list. If the Owner or Architect/Engineer has reasonable and substantial objection to any person or organization on such list and refuses in writing to accept such person or organization, the Offeror may, at his option:
 - a. Withdraw his Proposal, or
 - b. Submit an acceptable substitute Subcontractor with no increase in his cost proposal.
 - c. In the event of withdrawal under this paragraph, proposal security will not be forfeited.
 14. The Successful Offeror shall, **within 7 calendar days of notice of the award of a contract for the Work**, submit the following information to the Architect/Engineer:
 - a. A signed list of the proprietary names and the suppliers of principal items or systems of material and equipment proposed for the Work; and
 - b. A list signed by all Subcontractors proposed for the principal portions of the Work in accordance with the Subcontractors Listing Form submitted with the Proposal. Refer to Section 00430 for form of Subcontractors Listing.
 15. The Successful Offeror will be required to establish to the satisfaction of the Architect/Engineer and the Owner the reliability and responsibility of the persons or entities proposed to furnish and perform the Work described in the Proposal Documents.
 16. Persons and organizations proposed by the Bidder and to whom the Owner and the Architect/Engineer have made no reasonable objection under the provisions of subpart 4.5.15 above must be used on the Work for which they were proposed and shall not be changed except with the written consent of the Owner and the Architect/Engineer.
 17. No Successful Offeror shall be required to employ any Subcontractor, other person, or organization against which he has reasonable objection.

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IV. COST RESPONSE

VALENCIA COUNTY HOSPITAL DESIGN / BUILD

RFP No.: VCR-FY23-031

<p>Offeror:</p>	<p>This Proposal is submitted to: VALENCIA COUNTY Office of the Purchasing Agent Rustin Porter PO Box 1119, 444 Luna Avenue Los Lunas, New Mexico 87031</p>
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1. The undersigned Offeror proposes and agrees, if this Bid is accepted, to enter into an agreement with the Owner in the form included in the Proposal Documents to perform and furnish all Work as specified or indicated in the Proposal Documents for the Contract Price and within the Contract Time indicated in this Proposal and in accordance with the other terms and conditions of the Contract Documents.
2. The Offeror accepts all of the terms and conditions of the Request for Proposals. The Offeror shall sign and submit the Agreement between Owner and Contractor (hereinafter called Agreement) with the bonds and other documents required by the Proposal Requirements within 15 calendar days after the date of the Owner's Notice to Award.
3. In submitting this Proposal, the Offeror represents, as more fully set forth in the Agreement, that:
 - a. The Offeror has examined copies of all the RFP Documents and of the following Addenda (receipt of all of which is hereby acknowledged):

No. _____ Dated _____

No. _____ Dated _____

No. _____ Dated _____

No. _____ Dated _____

No. _____ Dated _____

No. _____ Dated _____

- b. The Offeror has familiarized himself with the nature and extent of the RFP

- Documents, Work, locality, and local conditions, laws, and regulations that in any manner may affect cost, progress, performance, or furnishing of the Work.
 - c. The Offeror has carefully studied all reports and drawings of subsurface conditions which are identified in the Information Available to Offerors and accepts the determination set forth in the Information Available to Offerors of the extent of the technical data contained in such reports and drawings upon which the Offeror is entitled to rely.
 - d. The Offeror has correlated the results of all such observations, examinations, investigations, explorations, tests, reports, and studies with the terms and conditions of the Solicitation Documents.
 - e. The Offeror has given the Owner written notice of all conflicts, errors, and discrepancies that he has discovered in the Solicitation Documents, and the written resolution thereof by the Owner is acceptable to the Offeror.
 - f. This Proposal is genuine and not made in the interest of or on behalf of any undisclosed person, firm, or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization, or corporation; the Offeror has not directly or indirectly induced or solicited any other Offeror to submit a false or sham proposal; the Offeror has not solicited or induced any person, firm, or corporation to refrain from submitting a proposal; and the Offeror has not sought by collusion to obtain for himself any advantage over any other Offeror or

- over the Owner.
- g. The Offeror acknowledges that he has attended any mandatory pre-proposal conference scheduled by the Owner and/or the Architect/Engineer pertaining to this project.
4. Proposals shall be presented in the form of a total cost proposal under a lump sum contract plus any additive or deductive alternates that are selected by the Owner.
 5. The Offeror agrees that:
 - a. The Work to be performed under this Contract shall be commenced not later than 10 consecutive calendar days after the date of written Notice to Proceed, and that **Substantial Completion shall be achieved not later than March 30, 2026.** except as hereafter extended by valid written Change Order by the Owner.
 - b. Should the Contractor neglect, refuse, or otherwise fail to complete the Work within the time specified, the Contractor agrees to pay to the Owner in partial consideration for the award of this Contract the amount of Five Thousand Dollars (\$5,000) per consecutive calendar day, not as a penalty, but as liquidated damages for such breach of the Contract.
 - c. The cost fee shall include all labor, materials, removal, overhead, profit, insurance, taxes (not including gross receipts tax), etc., to cover the finished work of the several kinds called for. Changes shall be processed in accordance with the Contract Documents.
 - d. It is understood that the Owner reserves the right to reject any or all Proposals and to waive any technical irregularities in the solicitation.
 6. The following documents are attached to and made a condition of this RFP:
 - a. Proposal Bond
 - b. Proposal Security with Agent's Affidavit
 - c. Subcontractors Listing & NMDWS Registration form.
 - d. Certification of Offeror Regarding Equal Employment Opportunity, Form 950.1
 - e. Active or "in progress" status in the System of Award Management (sam.gov) for contractor and subcontractor(s)
 7. The terms and definitions used in this Solicitation and the Contract Documents which are defined herein have the meanings assigned to them in those Condition.
 - f. Non-Collusion Affidavit of Offeror
 - g. Disclosure of Lobbying Activities for the Prime Contractor and all Subcontractors.
 - h. The Offeror agrees to show clearly on the envelope in which the Bid is submitted the Project Name and Number, as well as Request for Proposals Number.
 - i. The Offeror will complete the Work for the fee tallied within the Cost Response Form.

8. Cost Response Form – Cost Clarifications:

a. Compensation for Work Performed Prior to Execution of the Design Build Amendment:

The LUMP SUM amount for the completion of the work required by AIA-A141 standard Form of Agreement between Owner and Design Builder ARTICLE 4 - WORK PRIOR TO THE EXECUTION OF THE DESIGN BUILD AMENDMENT, including:

- Evaluation of the Owner’s Criteria
- Preliminary Design
- Completion of the Design Builder’s Proposal

b. Lump Sum Design and Construction Fee:

The LUMP SUM amount for the design and construction of the Project, per the requirements of the Bridging Documents and all other requirements including, but not limited to:

- All costs associated with integration of the identified Allowances.
- All costs for design coordination with the Owner’s Healthcare Consultant, installation of structural requirements, mechanical, electrical, medical gas, and plumbing system components ready for medical equipment installation.

The lump sum amount shall NOT include costs associated with the purchase of the specialized hospital equipment, nor the Neutral Site Budget Figures which are accounted for within the Cost Response Form.

c. Allowances:

Each Allowance is a sum of money included in the Design Builder’s Proposal to cover the cost of a product or service, all inclusive, to be provided under the Contract by a party other than the successful Design Builder.

The Design Builder will be reimbursed only for the costs invoiced by the party providing the product or service and no mark up, such as overhead and profit, shall be charged by the Design Builder.

Actual products or services may be less than, equal to, or greater than, the estimated allowance amount. Design Builder will be paid only the actual cost of the products or services.

Costs to integrate the work of a listed product or service are not included in Allowances, and integration costs should be incorporated into the Design Builder’s LUMP SUM amount.

The successful Designer Builder shall:

Submit proposals for scheduled purchases of services in the form specified for Change Orders.

Submit invoices or delivery slips to show actual costs for services provided, delivered, and installed.

At project closeout, credit unused allowance amounts to the Owner and charge for overage amounts by Change Order.

Include each item in the Schedule of Values as a line item, listing amount of the Allowances.

d. Specialized Hospital FF and E Budget Figures:

Budget figures identified within the Cost Response Form are for the **Design Builder's purchase of specialized hospital equipment** coordinated with, and through, the Owner's Healthcare Consultant (OHC).

The OHC will be responsible for developing the medical equipment plan, providing cut sheets and vendor room specific information, and communicating equipment requirements to the Design Builder Team.

The OHC will develop and manage the procurement schedule that coincides with the construction substantial completion date, obtain all quotes on behalf of hospital & issue RFPO's to hospital purchasing department for processing, and will manage the Purchase Order process.

The OHC will also coordinate equipment delivery logistics and dates with the Design Builder and receive all deliveries at the site or designated storage facility, inspect for damage, and verify quantities and general compliance with the Purchase Order.

The OHC will arrange and coordinate the transportation of equipment placed on-site to point of installation and coordinate disposal of equipment packaging material on-site. The OHC shall coordinate all specified Owner installed and/or Vendor installed equipment installations. This includes testing, certifications, and start up activities.

The Design Builder is responsible for coordination with the OHC during the design phase for inclusion of structural, mechanical, plumbing, medical gas, and electrical services required for the specialized hospital equipment, and purchase of equipment.

During the construction phase, the Design Builder is responsible for installation of all structural, mechanical, plumbing, medical gas, and electrical services required for the installation of the specialized hospital equipment.

The Design Builder shall include all costs, including insurance and interest, associated with the coordination, and execution of the requirements of the equipment designated by the OHC within the LUMP SUM portion of the Cost Response Form.

The contract MACC shall be adjusted via Change Order for equipment purchase totals under, or exceeding, the proposed budget figures.

e. Neutral Site Development Budget Figures:

Neutral Site Development Budget Figures are provided for inclusion within the Contract Sum with the expectation that the site development can be completed within the proposed budget figures. Once acquired, the site will be disclosed with the expectation that the Design Builder will evaluate the budget figures and advise the Owner of any overage to the total site design budget.

f. Contract Sum:

The Contract Sum shall be the total of: (a.) Compensation for Work Performed Prior to Execution of the Design Build Amendment + (b.) Lump Sum + (c.) Allowances + (d.) Specialized Hospital FF + (e.) Neutral Site Development Budget Figures.

The Contract Sum to be included within AIA – A141 2014 Exhibit A Design-Build Amendment paragraph A.1.2 shall be a Stipulated Sum consisting of the Contract Sum minus Compensation for Work Performed by the Design Builder Prior to Execution of the Design Build Amendment.

g. New Mexico Gross Receipts Taxes:

Indicated to provide the Owner with complete costs for the project.

h. Grand Total:

The Grand Total shall include the Contract Sum and New Mexico Gross Receipts Taxes

i. Additive and Deductive Change Orders:

The percentage of mark-up (profit, overhead, general conditions, design, and related costs) that will be applied to the Design Builder’s direct construction costs for any additive or deductive change order quotes and/or work.

j. Additive and Deductive Change Order Where the Design Work is Provided by Another Entity:

The percentage of mark-up (profit, overhead, general conditions, design, and related costs) that will be applied to the Design Builder’s direct construction costs for any additive or deductive change order quotes and/or work.

k. General Contractor / Subcontractor Markup:

The total amount of mark-up (profit, overhead, general conditions, design, and related costs) the Design Builder will allow the Contractor, any Subcontractor, or supplier’s direct labor, equipment, and/or material costs for any additive or deductive change order quotes and/or work.

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9. Cost Response Form

**Valencia County Hospital Design / Build
RFP No. VCR-FY23-031**

a. Compensation for Work Performed by Design Builder (Inclusive of Reimbursables as Identified within AIA - A141) Prior to Execution of the Design Build Amendment.

Total \$ _____ Lump Sum - See IV Cost Response Form, Section 8: Paragraph a.

b. Lump Sum Design and Construction Fee

Total \$ _____ Lump Sum - See IV Cost Response Form, Section 8: Paragraph b.

c. Allowances

Relocation of Underground Utilities	\$10,000.00	See: IV Cost Response Form, Section 8: Paragraph c
Electrical Service	\$100,000.00	As Required for Facility Construction
Natural Gas Service	\$10,000.00	PNM - Primary to Transformer
Water Service Connection Fee	\$1,800.00	NM Gas Company - Transmission Line to Meter
Water Impact Fee	\$44,768.00	Municipality
Sewer Service Fee	\$150.00	Municipality
Sewer Impact Fee	\$36,752.00	Municipality
Wayfinding	\$50,000.00	Design Builder Selected Subcontractor
Signage	\$50,000.00	Design Builder Selected Subcontractor
Sub Total	\$303,470.00	

d. Specialized Hospital FF and E Budget Figures

See: IV Cost Response Form, Section 8: Paragraph d

Oxygen Distribution	\$650,000.00
Backup Generator	\$550,000.00
Kitchen Equipment	\$455,000.00
Furnishings	\$270,000.00
Imaging Equipment	\$3,236,000.00
Hospital Equipment	\$6,195,000.00
Sub Total	\$11,356,000.00

e. Neutral Site Development Budget Figures

See: IV Cost Response Form, Section 8: Paragraph e

Helipad	\$250,000.00	Helipad for Medical Helicopter
Subsurface Structural Augmentation	\$300,000.00	Underslab and Foundation Support
Site Preparation	\$800,000.00	Grubbing, Rough Grading, Subgrade Prep, Stormwater Retention, and Finish Grading
Site Utilities	\$300,000.00	On Site - Sewer / Water / Electrical / Natural Gas / Comm - Data
Pavements	\$1,400,000.00	Subgrade Prep, Base Course, Asphalt Paving, Curb and Gutter
Sidewalks	\$150,000.00	Subgrade Prep, Base Course, Concrete Paving
Exterior Lighting	\$245,000.00	Parking Lot and Pedestrian Lighting
Landscape and Irrigation	\$320,000.00	
Sub Total	\$3,765,000.00	

f. CONTRACT SUM \$ _____ (Words) _____

g. New Mexico Gross Receipts Tax @ 8.4250% \$ _____ Contract Sum multiplied by the NMGR percentage rate

h. GRAND TOTAL \$ _____ (Words) _____

i. Additive and Deductive Change Orders Mark-Up ----- %
For Description - See: IV Cost Response Form, Section 8: Paragraph i

j. Additive and Deductive Change Order Where the Design Work is Provided by Another Entity Mark-Up - %
For Description - See: IV Cost Response Form, Section 8: Paragraph j

k. General Contractor / Subcontractor Mark-Up ----- %
For Description - See: IV Cost Response Form, Section 8: Paragraph k

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10.0 If the Offeror is:

a. An **INDIVIDUAL**:

By _____
(Individual's Signature)

doing business as _____

Business address: _____

Telephone: (____) _____ Fax: (____) _____

[Seal]

b. A **PARTNERSHIP**:

By _____
(Individual's Signature)

doing business as _____

Business address: _____

Telephone: (____) _____ Fax: (____) _____

[Seal]

c. A **CORPORATION**:

Corporation Name: _____

State of Incorporation: _____

By: _____ Title: _____
(Name of Person Authorized to Sign)

If a New Mexico Corporation: _____
NM Certificate of Incorporation Number

If a Foreign Corporation: _____
NM Certificate of Authority Number

Attest (Secretary): _____

Business address: _____

Telephone: (____) _____ Fax: (____) _____

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d. A **JOINT VENTURE**:

By _____
 (Individual's Signature)

doing business as _____

Business address: _____

Telephone: (____) _____ Fax: (____) _____

By _____
 (Individual's Signature)

doing business as _____

Business address: _____

Telephone: (____) _____ Fax: (____) _____

[Each Joint Venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated in the appropriate category]

e. **OFFEROR MUST FILL IN THE FOLLOWING**

(If none, write none)			
NM License No.		Classification(s)	
Resident Contractor's Preference No.	Not Applicable for this Project	Workforce Solutions Dept. Registration No.	

US Federal Contractor Registration Business Name: _____

System of Award Management (SAM) Registration Number: _____

and Commercial and Government Entity (CAGE) Code: _____

or Dun and Bradstreet Number (DUNS) Number: _____

Federal Employer Tax ID No.: _____

State of New Mexico Tax ID No.: _____

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V. SUPPLEMENT TO PROPOSAL

The followings documents must be included with any Offer.

A. PROPOSAL BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned, _____ as Principal, and _____ as Surety, are hereby held and firmly bound unto _____ as Owner in the penal sum of _____ for which, well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executives, administrators, successors and assigns. **SIGNED**, this _____ day of _____, 20__.

The condition of the above obligation is such that whereas the Principal has submitted to the Owner a certain Proposal, attached hereto and hereby made a part hereof to enter into a contract in writing, for:

_____ (Project)

NOW, THEREFORE,

- a. If said Proposal shall be rejected, or in the alternate,
- b. If said Proposal shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract, attached hereto (properly completed in accordance with said Proposal) and shall furnish a Bond (Proposal Security) for the faithful performance of said Contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said Proposal.

Then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Owner may accept such Proposal; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to signed by their proper officers, the day and year first set forth above.

Principal: _____ (L.S.)

Surety: _____

[Seal]

By: _____

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B. CERTIFICATE AS TO CORPORATE PRINCIPAL

I, _____, certify that I am the _____,
Secretary of the Corporation named as Principal in this bond, that _____ who signed
the bond on behalf of the Principal was then _____ of said corporation; that I
know his/her signature, and his/her signature thereto is genuine; and that said bond was duly signed, sealed, and
attested to for and on behalf of said corporation by authority of this governing body.

[Corporate Seal]

Title: _____

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C. PROPOSAL SECURITY REVIEW FORM

- a. **Review and Approval:** This Bond has been executed by a Surety named in the current list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies," as published in Circular 570 (July 1st edition) by the Audit Staff Bureau of Accounts, United States Treasury Department.

Yes No (If **No**, report to Funding Agency immediately)

- b. I, as Owner's Representative, have verified with (Name of Contact) _____ of the Office of the Superintendent of Insurance, 1-855-427-5674 that the Surety Company listed on the Bid Bond is licensed/authorized to do business in the state of New Mexico in accordance with §13-1-46 and §13-4-18 NMSA 1978. If source of verification is other than the State Corporation Commission, Insurance Division, identify the source document below and publication date.

_____ Dated: _____
(Name of Source Document)

_____ Dated: _____
(Signature of Owner's Representative)

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D. AGENT'S AFFIDAVIT

**This Form Must Be
Used By Surety**

[To be filled in by Agent]

STATE OF _____)
) ss.
COUNTY OF _____)

_____, being first duly sworn, deposes and says that he/she is the duly appointed agent for _____ and is licensed in the State of New Mexico.

Deponent further states that a certain bond given to indemnify the Owner in connection with the construction of _____ dated the _____ day of _____, 20__ executed by _____ Contractor, as principal, and _____, as surety, signed by this Deponent; and Deponent further states that said bond was written, signed, and delivered by him/her; that the premium on the same has been or will be collected by him/her; and that the full commission thereon has been or will be retained by him/her.

SUBSCRIBED AND SWORN TO BEFORE ME THIS _____ DAY OF _____, 20__.

NOTARY PUBLIC: _____

MY COMMISSION EXPIRES: _____

[Seal]

Agent's Address:

Phone: (____) _____ Fax: (____) _____

[This form must be used for all bonds required in the Bidding Documents. Power of Attorney for person signing for Surety Company must be attached to bond]

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E. SUBCONTRACTORS LISTING, NMDWS REGISTRATION & ASSIGNMENT OF ANTITRUST CLAIMS

Project: _____ Project No. _____

1.0 SUBCONTRACTORS LISTING, NMDWS REGISTRATION & ASSIGNMENT OF ANTITRUST CLAIMS [by Contractor, Subcontractors, Sub-Subcontractors, and Suppliers]

1.1 To be fully executed and included with Proposal as a condition of the Proposal, including all Subcontractors providing services valued at \$35,000 or more, pursuant to §13-4-34 NMSA 1978.

1.2 To be signed after award of Contract by individual empowered to obligate Supplier, Subcontractor, or Sub-subcontractor.

1.3 See Instructions to Offerors, subsection 4.5 of section 00100, Subcontractors, for rules regarding changes in this list after submission of proposal.

1.4 The undersigned agrees that any and all claims which the firm may have or may incur to it for overcharges resulting from antitrust violations as to goods, services, and materials purchased in connection with the above-referenced project are hereby assigned to the Owner, but only to the extent that such overcharges are passed on to the Owner. It is agreed that the firm retains all rights to any such antitrust claims to the extent of any overcharges not passed on to the Owner, including the right to any treble damages attributable thereto.

1.5 A contractor or subcontractor that submits an offer valued at more than \$60,000 for a public works project subject to the Public Works Minimum Wage Act shall be registered with the Labor and Industrial Division of the Workforce Solutions Department (NMDWS) (formerly the Department of Labor (DOL). The Owner shall not accept a proposal on a public works project from a Contractor that does not provide proof of required registration for itself. Contractors, prime contractors, and subcontractors must be registered with the NMDWS (§13-4-13.1 NMSA 1978).

Company Name of Contractor/Subcontract	Email and phone number	NMDWS Registration No	DUNS number	SAMs registration number

F. CERTIFICATION OF OFFEROR REGARDING EQUAL EMPLOYMENT OPPORTUNITY

INSTRUCTIONS

This certification is required pursuant to Executive Order 11246 (30 F. R. 12319-25). The implementing rules and regulations provide that any bidder or prospective contractor, or any of their proposed subcontractors, shall state as an initial part of the bid or negotiations of the contract whether it has participated in any previous contract or subcontract subject to the equal opportunity clause; and, if so, whether it has filed all compliance reports due under applicable instructions.

Where the certification indicates that the Offeror has not filed a compliance report due under applicable instructions, such offeror shall be required to submit a compliance report within seven calendar days after submission of the proposal. No contract shall be awarded unless such report is submitted.

CERTIFICATION BY OFFEROR

NAME AND ADDRESS OF OFFEROR *(Include ZIP Code)*

1. Offeror has participated in a previous contract or subcontract subject to the Equal Opportunity Clause. Yes No

2. Compliance reports were required to be filed in connection with such contract or subcontract. Yes No

3. Bidder has filed all compliance reports due under applicable instructions, including SF-100. Yes No

4. Have you ever been or are you being considered for sanction due to violation of Executive Order 11246, as amended? Yes No

Name and Title of Signer *(please type)*:

Signature

Date

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VI. AGREEMENT BETWEEN OWNER AND DESIGNER/BUILDER

AIA Document A141 – 2014, Standard Form of Agreement Between Owner and Design-Builder, and Exhibit A – Design Build Amendment, Exhibit B – Insurance and Bonds

RECITALS

WHEREAS, the United States Department of the Treasury and Valencia County, New Mexico has funded the above referenced Project pursuant to the Coronavirus State and Local Fiscal Recovery Funds; and

WHEREAS, the Owner is authorized to enter into a Design/Builder Contract for the Project pursuant to Sections 13-1-119.1 NMSA 1978; and

WHEREAS, the Owner has let this contract according to the established Federal, State, and Local purchasing procedures for contracts of the type and amount let; and

WHEREAS, award of the Design/Builder Contract on this Project was approved by the Governing Body at its meeting of _____, 20____;

THE CONTRACT DOCUMENTS

The Contract Documents consist of the following:

- Cost Proposal Form
- This Agreement Form and AIA Document A141 – 2014 Standard Form of Agreement Between Owner and Design Builder
- AIA Document A141 – 2014 Exhibit A (Design Build Amendment)
- AIS Document A141 – 2014 Exhibit B (Insurance and Bonds)
- Performance and Payment Bonds
- Agent's Affidavit
- Certificate of Insurance
- Assignment of Antitrust Claims
- Table A Subcontracts Breakdown
- Table B Estimated Project Workforce Breakdown
- Notice of Award
- Notice to Proceed
- Conditions of the Contract (Supplementary and Other Conditions)
- Design Builder's Drawings
- Design Builder's Specifications
- Geotechnical Investigation
- Addenda Issued Prior to Proposal Submission
- Modifications Issued after Execution of this Agreement
- Federal requirements, certifications and required forms

These documents form the Contract, and all are as fully a part of the Contract as if attached to this Agreement or repeated herein.

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VII. BONDS, CERTIFICATES & NOTICES

The following documents will be required to be submitted as a condition of execution of a Contract.

A. PERFORMANCE AND PAYMENT BONDS

The “Performance and Payment Bond” will be AIA Document A312™–2010, a copy of which may be purchased from a local AIA office.

AIA Document A312™–2010 incorporates two bonds—one covering the Contractor’s performance, and the other covering the Contractor’s obligations to pay Subcontractors and others for material and labor.

AIA Document A312–2010 obligates the surety to act responsively to the Owner’s requests for discussions aimed at anticipating or preventing a Contractor’s default.

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B. RIDER TO BONDS

This Form Must Be
Used By Surety

Performance Bond No.: _____ Labor & Material Payment Bond No.: _____

Obligee (Owner): _____

Surety: _____

Surety's New Mexico Agent:

Name: _____

Address: _____

Telephone No. (____) _____

The Surety and Principal stipulate as follows:

Whenever, in the judgment of the Owner, the Surety on this bond shall be insolvent, or for any cause is not a proper or sufficient Surety, the Owner may require the Contractor to furnish a new or additional bond or security within ten (10) days; and thereupon, if the Owner shall so order, security shall be furnished. If such new or additional bond or security is not furnished within said time, the Owner may, at its option, take over and Surety, either doing the Work on force account, or letting the same by contract, and shall be entitled to use any equipment, materials and supplies of the delinquent Contractor in completing said Work.

The Surety hereby stipulates and agrees that no properly authorized Change Order altering Contract Time, Contract Sum, Conditions of the Contract, or the scope of nature of the Work to be performed thereunder shall in any way affect its obligation on this bond, and it does hereby waive any notice of such change.

Signed and sealed this _____ day of _____, 20____.

(Principal) (Seal)

(Witness)

(Title)

(Witness)

(Surety) (Seal)

(Title)

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C. AGENT'S AFFIDAVIT

**This Form Must Be
Used By Surety**

[To be filled in by Agent]

STATE OF _____)
) ss.
COUNTY OF _____)

_____, being first duly sworn, deposes and says that he/she is the duly appointed agent for _____ and is licensed in the State of New Mexico.

Deponent further states that a certain bond given to indemnify the Owner in connection with the construction of _____ dated the _____ day of _____, 20____, executed by _____ Contractor, as principal, and _____ as surety, signed by this Deponent; and Deponent further states that said bond was written, signed, and delivered by him/her; that the premium on the same has been or will be collected by him/her; and that the full commission thereon has been or will be retained by him/her.

SUBSCRIBED AND SWORN TO BEFORE ME THIS _____ DAY OF _____, 20_____.

NOTARY PUBLIC

MY COMMISSION EXPIRES: _____

[SEAL]

Agent's Address:

Phone: (____) _____ Fax: (____) _____

[This form must be used for all bonds required in the Bidding Documents. Power of Attorney for person signing for Surety Company must be attached to bond. Power of Attorney for person signing for Surety Company must be attached to bond.]

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D. CERTIFICATE OF INSURANCE

Provide Certificate of Acord 25 completed with amounts and per minimum amounts of insurance as required in the Supplemental General Conditions.

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E. ASSIGNMENT OF ANTITRUST CLAIMS

**This Form Must Be Submitted
Within 10 Days of Bid Award**

(To be executed by Suppliers, Subcontractors, and Sub-Subcontractors of Contractors)

Project: _____ Project Number: _____

_____ agrees that any and all claims which it may have or may have endured for overcharges resulting from antitrust violations as to goods, services, and materials purchased in connection with the above-referenced project are hereby assigned to the Owner, but only to the extent that such overcharges are passed on to the Owner.

It is agreed that the undersigned retains all rights to any such antitrust claims to the extent of any overcharges not passed on to the Owner, including the right to any treble damages attributable thereto.

Firm: _____

By: _____

Signed by Individual Empowered to Obligate Supplier, Subcontractor, or Sub-Subcontractor:

Title: _____

Date: _____

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F. CERTIFICATE OF OWNER’S ATTORNEY

(To be completed by Owner’s Attorney)

I, the undersigned, _____, the duly authorized and acting legal representative of the (municipality/county) of _____ do hereby certify as follows:

I have examined the attached Contract(s) and surety bonds and the manner of execution thereof, and I am of the opinion that each of the aforesaid agreements has been duly executed by the proper parties thereto acting through their duly authorized representatives; that said representatives have full power and authority to execute said agreements on behalf of the respective parties named thereon; and that the foregoing agreements constitute valid and legally binding obligation upon the parties executing the same in accordance with terms, conditions, and provisions thereof.

Name: _____

Date: _____

Address: _____

Phone Number: _____

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VIII. SUPPLEMENTAL CONDITIONS TO AIA – A141 STANDARD FORM OF AGREEMENT BETWEEN OWNER AND DESIGN-BUILDER

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1. CONTRACT AND RELATED DOCUMENTS

1.1 The project to be constructed pursuant to this contract will be financed with the assistance of the Coronavirus State and Local Fiscal Recovery Funds and is subject to all applicable federal and state laws and regulations. Coronavirus State and Local Fiscal Recovery Funds are federal funds. Section 13-1-30(B) NMSA 1978 of the Procurement Code stipulates: "When a procurement involves

the expenditure of federal funds, the procurement shall be conducted in accordance with mandatory applicable federal law and regulations. When mandatory applicable federal law or regulations are inconsistent with the provisions of the Procurement Code, compliance with federal law or regulations shall be compliance with the Procurement Code."

1.2 The applicable governing federal procurement standards are defined in OMB Circular A-102, Attachment O. When federal and state procurement policies are different, the more restrictive policies apply so long as they are consistent with Circular A-102 standards.

2. MATERIALS, SERVICES, AND FACILITIES

2.1 It is understood that except as otherwise specifically stated in the Contract Documents, the Design Builder shall provide and pay for all materials, labor, tools, equipment, water, light, power, transportation, superintendence, temporary construction of every nature, and all other services and facilities of every nature whatsoever necessary to execute, complete, and deliver the work within the specified time.

2.2 Any work necessary to be performed after regular working hours, on Sundays or legal holidays, shall be performed without additional expense to the Owner.

3. DESIGNER BUILDER'S TITLE TO MATERIALS

3.1 No materials or supplies for the work shall be purchased by the Design Builder or by any Subcontractor subject to any chattel mortgage or under a conditional sale contract or other agreement by which an interest is retained by the seller. The Design Builder warrants that he has good title to all materials and supplies used by him in the work, free from all liens, claims or encumbrances.

4. "OR EQUAL" CLAUSE

4.1 Whenever a material, article or piece of equipment is identified on the Plans or in the Specifications by reference to manufacturers' or vendors' names, trade names, catalogue numbers, etc., it is intended merely to establish a standard; and, any material, article, or equipment or other manufacturers and vendors which will perform adequately the duties imposed by the general design will be considered equally acceptable provided the material, article, or equipment so proposed, is, in the opinion of the Design Builder's Architect/Engineer, and the Owner, to be of equal substance and function. It shall not be purchased or installed by the Design Builder without the written approval of the Design Builder's Architect/Engineer and the Owner.

5. WEATHER CONDITIONS

5.1 In the event of temporary suspension of work, or during inclement weather, or whenever the Owner shall direct, the Design Builder will, and will cause his Subcontractors to protect carefully his and their work and materials against damage or injury from the weather. If, in the opinion of the Owner, any work or materials shall have been damaged or injured by reason of failure on the part of the Design Builder or any of his Subcontractors so to protect his work, such materials shall be removed and replaced at the expense of the Design Builder.

6. PROTECTION OF WORK AND PROPERTY, EMERGENCY

6.1 The Design Builder shall at all times safely guard the Owner's property from injury or loss in connection with this Contract. He shall at all times safely guard and protect his own work, and that of adjacent property from damage. The Design Builder shall replace or make good any such damage, loss, or injury unless such is caused directly by errors contained in the contract or by the Owner, or his duly authorized representatives.

6.2 In case of an emergency which threatens loss or injury of property, and/or safety of life, the Design Builder will be allowed to act, without previous instructions from the Owner, in a diligent manner. He shall notify the Owner immediately thereafter. Any claim for compensation by the Design Builder due to such extra work shall be promptly submitted to the Owner for approval.

6.3 The amount of reimbursement claimed by the Design Builder on account of any emergency action shall be determined in the manner provided in AIA 141 - Article 6 – Changes in the Work.

7. INSPECTION

7.1 The authorized representatives and agents of the Owner shall be permitted to inspect all work, materials, payrolls, records of personnel, invoices of materials, and other relevant data and records.

8. REPORTS, RECORDS, AND DATA

8.1 The Design Builder shall submit to the Owner such schedule of quantities and costs, progress schedules, payrolls, reports, estimates, records, and other data as the Owner may request concerning work performed or to be performed under this Contract.

9. SUPERINTENDENCE BY DESIGNER BUILDER

9.1 At the site of the work, the Design Builder shall employ a construction superintendent who shall have full authority to act for the Design Builder. It is understood that such representative shall be acceptable to the Owner and shall be one who can be continued in that capacity for this particular job involved unless he ceases to be on the Design Builder's payroll.

10. CHANGES IN WORK

10.1 To the costs identified within AIA -A141, paragraph 6.3.7, there shall be added a fixed fee to be

agreed upon but not to exceed fifteen percent (15%) of the actual cost of the work. The fee shall be compensation to cover the cost of supervision, overhead, bond, profit, and any other general expenses.

10.2 All Change Orders will be approved by the local Funding Agency (Valencia County) before taking effect. Any additional project costs (including GRT) approved by the Owner, shall become the sole responsibility of the Owner.

10.3 Any party that becomes aware of an expected project cost over-run, will notify the Owner immediately. The Owner will notify the Funding Agency. If funding is not already in place to cover the entire over-run, the Owner will: 1) coordinate with the Design Builder to amend the scope of work to bring the project back within budget, 2) secure additional and timely funding to cover the entire over-run, or 3) deny approval of the change order.

11. VALUE ADDED EXTRAS

11.1 Without invalidating the Contract, the Owner may order extra work or make changes by altering, adding to, or deducting from the work, the Contract Sum being adjusted accordingly, and the Consent of the Surety being first obtained where necessary or desirable. All the work of the kind agreed upon shall be paid for at the price stipulated in the agreement, and no claims for any extra work or materials shall be allowed unless the work is ordered in writing by the Owner.

12. PAYMENTS TO DESIGN BUILDER

12.1 When making payments, the Owner, Design Builder, Contractor, or Subcontractor shall not retain, withhold, hold back, or in any other manner not pay amounts owed for work performed. For additional information regarding retainage and the Prompt Payment Act refer to Section 57-28-5 NMSA 1978.

12.2 All material and work covered by partial payments made shall thereupon become the sole property of the Owner, but this provision shall not be construed as relieving the Designer Builder from the sole responsibility for the care and protection of materials and work upon which payments have been made or the restoration of any damaged work, or as a waiver of the right of the Owner to require the fulfillment of all of the terms of the Contract.

13. PAYMENTS BY DESIGN BUILDER

13.1 If the Design Builder fails to pay his Architect, Consultants, Contractor, and other person or entity providing service or work for the Design Builder, by first class mail or hand delivery within seven days of receipt of payment, the Design Builder shall pay interest to his Architect, Consultants, Contractor, and other person or entity providing service or work for the Design Builder, beginning on the eighth day after payment was due, computed at one and one – half percent of the undisputed amount per month, or fraction of a month until payment is issued. These payment provisions apply to all tiers of the Design Builder’s Architects, Consultants, Contractors, and other persons or entities providing service or work for the Design Builder. These payment provisions apply to all tiers of Design Builder’s, Architects, Consultants, Contractors, and other persons or entities providing service or

work for the Design Builder.
Section 57-28-1 et. Seq. NMSA 1978

14. INSURANCE

14.1 As required under and by Exhibit B of the AIA Document A141 – Agreement between Owner and Design-Builder, the policy shall be written for not less than the following or greater if required by law:

Worker's Compensation (including accident and occupational disease coverage):

- a. State: Statutory
- b. Employer's Liability
 - \$ 100,000 each accident
 - \$ 500,000 disease-policy limit
 - \$ 100,000 disease-each employee

Commercial General Liability insurance shall be written with limits no less than \$1,000,000 each occurrence, a \$2,000,000 general aggregate, and a \$2,000,000 products-completed operations aggregate limit, providing coverage for claims including:

- a. damages because of bodily injury, sickness or disease, including occupational sickness or disease, and death of any person;
- b. personal injury;
- c. damages because of injury to or destruction of tangible property;
- d. bodily injury or property damage arising out of completed operations; and
- e. contractual liability applicable to the Design-Builder's obligation of this Agreement.

Comprehensive Automobile Liability:

- a. Bodily Injury
 - \$ 500,000 per person
 - \$ 1,000,000 each occurrence
- b. Property Damage
 - \$ 500,000 each occurrence
 - \$ 500,000 annual aggregate

Umbrella Excess Liability:

\$10,000,000 over primary insurance

Professional Liability Insurance

\$10,000,000 each occurrence
\$12,000,000 annual aggregate

14.2 The Designer Builder shall either: (1) require each of his Subcontractors to procure and to maintain during the life of his subcontract, Subcontractor's Public Liability and Property Damage of the type and in the same amounts as specified in the preceding paragraph, or (2) insure the activities of his Subcontractors in his own policy.

14.3 Until the project is completed and accepted by the Owner, the Design Builder, in lieu of the Owner, is required purchase and maintain Builder's Risk insurance as required within AIA 141 Exhibit B, Article B.3 Owner's Insurance. A copy of the Builder's Risk Policy shall be provided to the Owner before any portion of Work is commenced by the Designer Builder.

14.4 Payment of Damages. Nothing contained in these insurance requirements is to be construed as limiting the extent of the Designer Builder's responsibility for payment of damages resulting from his operation under this Contract.

14.5 The insurance required under subparagraphs 14.1 and 14.3 hereof shall provide adequate protection for the Design Builder and his Subcontractors, respectively, against damage claims which may arise from operations under this Contract, whether such operations be by the insured or by anyone directly or indirectly employed by him and, also against any of the special hazards which may be encountered in the performance of this Contract as enumerated in the herein.

14.6 Certificates of insurance acceptable to the Owner shall be filed with the Owner within ten (10) days after receipt of the Notice of Award.

15. CONTRACT SECURITY

15.1 The Design Builder shall furnish a Performance Bond in an amount at least equal to one hundred percent (100%) of the Contract Prices as security for the faithful performance of this Contract and also a Payment Bond in an amount not less than one hundred percent (100%) of the Contract Price or in a penal sum not less than that prescribed by state, territorial or local law, as security for the payment of all persons performing labor on the project under this Contract and furnishing materials in connection with this Contract. The Performance Bond and the Payment Bond may be in one or in separate instruments in accordance with local law.

15.2 A claimant is further defined as set forth in Sections 13-4-18 through 13-4-20 NMSA 1978. The security is bound by the provisions of Sections 13-4-18 through 13-4-20 NMSA 1978.

16. ADDITIONAL OR SUBSTITUTE BOND

16.1 If at any time the Owner for justifiable cause shall be or become dissatisfied with any surety or sureties, then upon the Performance or Payment Bonds, the Design Builder shall within five (5) days after notice from the Owner so to do, substitute an acceptable bond (or bonds) in such form and sum and signed by such other surety or sureties as may be satisfactory to the Owner. The premiums on such bond shall be paid by the Design Builder. No further payments shall be deemed due nor shall be made until the new surety or sureties shall have furnished such an acceptable bond to the Owner.

17. MUTUAL RESPONSIBILITY OF CONTRACTORS

17.1 If, through acts of neglect on the part of the Design Builder, any other Contractor, or any Subcontractor shall suffer loss or damage on the work, the Design Builder agrees to settle with such

other Contractor or Subcontractor by agreement or arbitration if such other Contractor or Subcontractors will so settle. If such other Contractor or Subcontractor shall assert any claim against the Owner on account of any damage alleged to have been sustained, the Owner shall notify the Design Builder, who shall indemnify and save harmless the Owner against any such claim.

18. SUBCONTRACTING

18.1 This procurement is subject to the provisions of the Subcontractors Fair Practices Act (13-4-31 to 13-4-42 NMSA 1978).

18.2 The Design Builder shall be as fully responsible to the Owner for the acts and omissions of his Subcontractors, and of persons either directly or indirectly employed by them, as he is for the acts and omissions of persons directly employed by him.

18.3 The Designer Builder shall cause appropriate provisions to be inserted in all subcontracts relative to the work to bind Subcontractors to the Design Builder by the terms of the General Conditions and other Contract Documents insofar as applicable to the work of Subcontractors and to give the Design Builder the same power as regards terminating any subcontract that the Owner may exercise over the Design Builder under any provision of the Contract Documents.

18.4 Nothing contained in this Contract shall create any contractual relation between any Subcontractor and the Owner.

19. LANDS AND RIGHTS-OF-WAY

19.1 Prior to the start of construction, the Owner shall obtain all lands and rights-of-way necessary for the carrying out and completions of work to be performed under this Contract.

20. CONFLICTING CONDITIONS

20.1 Any provisions in any of the Contract Documents which may be in conflict or inconsistent with any of the paragraphs in these General Conditions shall be void to the extent of such conflict or inconsistency.

21. PROVISION REQUIRED BY LAW DEEMED INSERTED

21.1 Each and every provision of law and clause required by law to be inserted in this Contract shall be deemed to be inserted herein and the Contract shall be read and enforced as though it were included herein, and if through mistake or otherwise any such provision is not inserted, or is not correctly inserted, then upon the application of either party the Contract shall forthwith be physically amended to make such insertion or correction.

22. SPECIAL CONDITIONS PERTAINING TO HAZARDS, SAFETY STANDARDS, AND ACCIDENT PREVENTION

22.1 With respect to all work performed under this Contract, the Design Builder shall: exercise proper precaution

at all times for the protection of persons and property and shall be responsible for all damages to persons or property, either on or off the site, which occur as a result of his prosecution of the work.

22.2 The Design Builder shall minimally comply with the safety standards provisions of applicable laws, building and construction codes and the "Manual of Accident Prevention in Construction" published by the Associated General Contractors of America, the requirements of the Occupational Safety and Health Act of 1970 (P.L. 91-596), and the requirements of Title 29 of the Code of Federal Regulations, 1518 as published in the "Federal Register", Volume 36, No. 75, Saturday, April 17, 1971.

22.3 The Design Builder shall maintain at his/her office or other well-known place at the job site, all articles necessary for giving first aid to the injured, and shall make standing arrangements for the immediate removal to a hospital or a doctor's care of persons (including employees), who may be injured on the job site. In no case shall employees be permitted to work at a job site before the employer has made a standing arrangement for removal of injured persons to a hospital or a doctor's care.

22.4 When the use of explosives is necessary for the prosecution of the work, the Design Builder shall observe all local, state and federal laws in purchasing and handling explosives. The Design Builder shall take all necessary precautions to protect completed work, neighboring property, water lines, or other underground structures. Where there is danger to structures or property from blasting, the charges shall be reduced and the material shall be covered with suitable timber, steel, or rope mats.

22.5 The Design Builder shall notify all Owners of public utility property of intention to use explosives at least eight hours before blasting is done, close to such property. Any supervision or direction of use of explosives by the Design Builder's Architect/Engineer does not in any way reduce the responsibility of the Design Builder or his Surety for damages that may be caused by such use.

22.6 The Design Builder shall make all necessary precautions to guard against damages to property and injury to persons. He shall put up and maintain in good condition, sufficient red or warning lights at night, suitable barricades and other devices necessary to protect the public. In case the Design Builder fails or neglects to take such precautions, the Owner may have such lights and barricades installed and charge the cost of this work to the Design Builder. Such action by the Owner does not relieve the Design Builder of any liability incurred under these specifications or contract.

23. SPECIAL HAZARDS

23.1 The Contractor's and his Subcontractor's Public Liability and Property Damage Insurance shall provide adequate protection against the following special hazards: None known.

24. CONFLICT OF INTEREST OF OFFICERS OR EMPLOYEES OF THE LOCAL JURISDICTION, MEMBERS OF THE LOCAL GOVERNING BODY, OR OTHER PUBLIC OFFICIALS

24.1 No officer or employee of the local jurisdiction or its designees or agents, no member of the governing body, and no other public official of the locality who exercises any function or responsibility with respect to this Contract, during his/her tenure or for one year thereafter, shall have any interest, direct or indirect, in any Contract or subcontract, or the proceeds thereof, for work to be performed. Further, the Design Builder shall cause to be incorporated in all subcontracts the language set forth in this paragraph prohibiting conflict of interest.

25. INTEREST OF MEMBER OF OR DELEGATE TO CONGRESS

25.1 No member of or Delegate to Congress, or Resident Commissioner, shall be admitted to any share or part of this Contract or to any benefit that may arise therefrom, but this provision shall not be construed to extend to this Contract if made with a corporation for its general benefit.

26. OTHER PROHIBITED INTERESTS

26.1 No official of the Owner who is authorized in such capacity and on behalf of the Owner to negotiate, make, accept, or approve, or to take part in negotiating, making accepting or approving any architectural, engineering, inspection, construction, or material supply contract or any subcontract in connection with the construction of the project, shall become directly or indirectly interested personally in this Contract or in any part hereof. No officer, employee, architect, attorney, engineer, or inspector of or for the Owner who is authorized in such capacity and on behalf of the Owner to exercise any legislative, executive, supervisory, or other similar functions in connection with the construction of the project, shall become directly or indirectly interested personally in this Contract or in any part thereof, any material supply contract, subcontract, insurance contract, or any other contract pertaining to the project.

27. CLAIMS AND DISPUTE RESOLUTION

27.1 Claims and Disputes shall be resolved per AIA 141, Article 14 Claims and Disputes, except administration of the dispute shall not be through the American Arbitration Association but a party agreeable to both parties. Dispute resolution shall be administered by the New Mexico Academy of Mediators & Arbitrators. If a claim or dispute cannot be resolved through Mediation, the Binding Dispute Resolution method shall be Arbitration.

28. NOTICE OF EXTENDED PAYMENT PROVISION

28.1 This Contract allows the Owner to make payment within 45 days after submission of an undisputed request for payment (Section 57-28-5 B (2) NMSA 1978).

29. PHOTOGRAPHS OF PROJECT

29.1 As required by the Funding Agency, the Design Builder will furnish photographs before construction, during construction, and upon completion of the project.

30. CONSTRUCTION INDUSTRIES LICENSING ACT

30.1 This Contract is subject to the provisions of the New Mexico Construction Industries Licensing Act (§§60-13-1 to 60-13-59 NMSA 1978), the rules and regulations of the New Mexico Construction Industries Commission and the rules, regulations and codes of the various trade boards adopted pursuant to the Construction Industries Licensing Act.

31. ASSIGNMENT OF ANTITRUST CLAIMS

31.1 All Contractors (entity entering into a formal and legally binding agreement with the owner), Subcontractors, and suppliers agree that any and all claims which it may have or may incur to it for overcharges resulting from antitrust violations as to goods, services and materials purchased in connection with this project are hereby assigned to the Owner and the funding agency, but only to the extent that such overcharges are passed on to the Owner. It is agreed that the Contractor, supplier, Subcontractor, or Sub-subcontractor retains all rights to any such antitrust claims to the extent of any overcharges not passed on to the Owner, including the right to any treble damages attributable thereto.

32. BRIBES, GRATUITIES, AND KICKBACKS

- 32.1 It is illegal in this state for any public employee to solicit or accept anything of value in connection with award of this Contract and for any person to offer or pay anything of value to any such public employee (§§30-24-1 through 2 NMSA 1978).
- 32.2 Pursuant to §13-1-191 NMSA 1978 reference is hereby made to the criminal laws of New Mexico, including §§30-24-1 through 30-24-2, and §§30-41-1 through 30-41-3 NMSA 1978, which prohibit bribes, kickbacks, and gratuities and violation of which constitutes a felony. Further, the Procurement Code, §§13-1-28 through 13-1-199 NMSA 1978, imposes civil and criminal penalties for its violation.

33. NON-RESIDENT CONTRACTOR'S REQUIREMENTS REGARDING GROSS RECEIPTS TAX SURETY BOND

- 33.1 Section 7-1-55A NMSA 1978 provides that any person (as defined in §7-1-3 NMSA 1978) engaged in the construction business who does not have his principal place of business in New Mexico and enters into a prime construction contract to be performed in this state shall, at the time such contract is entered into, furnish the Director of the Revenue Division, Taxation and Revenue Department, or his delegate with a surety bond or other acceptable security in a sum equivalent to the gross receipts tax to be paid under the Contract multiplied by the applicable rate of the gross receipts tax imposed by §7-9-4 NMSA 1978 to secure payment of the tax imposed on the gross receipts from the Contract, and shall obtain a certificate from the Director of the Revenue Division, Taxation and Revenue Department, or his delegate, that the requirements of this paragraph have been met.
- 33.2 If the total sum to be paid under the Contract is changed by ten percent or more after the date the surety bond or other acceptable security is furnished, to the Director or his delegate, such person shall increase or decrease, as the case may be, the amount of the bond or security within fourteen days after the change (§7-1-55B NMSA 1978).
- 33.3 In addition to the above requirements, the Contractor will be subject to all the requirements of §7-1-55 NMSA 1978.

34. CONTRACTOR'S GROSS RECEIPTS TAX REGISTRATION

- 34.1 §7-10-4 NMSA 1978 provides that any person (as defined in §7-10-3 NMSA 1978) performing services for the state or its political subdivisions, as those terms are used in the Gross Receipts and Compensating Tax Act (§§7-10-1 through 7-10-5 NMSA 1978) must be registered and be issued an identification number with the Revenue Division of the Taxation and Revenue Department of the state to pay the gross receipts tax.
- 34.2 For information in obtaining the identification number contact: Revenue Processing Division, Taxation and Revenue Department, Manuel Lujan Sr. Building, 1200 St. Francis Drive, Santa Fe, New Mexico 87505, or call 505-827-0825.
- 34.3 If any person who performs services for the State or its political subdivisions is not registered to pay the gross receipts tax, the Owner shall withhold payment of the amount due until the person has presented evidence of registration with the Revenue Division to pay the gross receipts tax.

35. CONTRACTS WITH NONRESIDENT PERSONS OR PARTNERSHIPS OR UNADMITTED FOREIGN CORPORATIONS, AGENT FOR SERVICE OF PROCESS

35.1 Special attention of contractors is called to the requirements of §§ 13-4-21 through 13-4-24 NMSA 1978, whereby a public works contract with a nonresident person or partnership or foreign corporation not authorized to do business in the State shall contain a specific provision designating an agent resident within the State, and his address, upon whom process and writs in any action or proceeding against such business may be served in any action arising out of such contract.

36. CERTIFICATION OF COMPLIANCE WITH AIR AND WATER ACTS

(Applicable to Federal assisted construction contracts and related subcontracts exceeding \$100,000.)

Compliance with Air and Water Acts

- A. During the performance of this contract, the Contractor (entity entering into a formal and legally binding agreement with the owner) and all Subcontractors shall comply with the requirements of the Clean Air Act, as amended, 42 USC 1857 et seq., the Federal Water Pollution Control Act, as amended, 33 USC 1251 et seq., and the regulations of the Environmental Protection Agency with respect thereto, at 40 CFR Part 15, as amended.
- B. In addition to the foregoing requirements, all nonexempt Contractors and Subcontractors shall furnish to the Owner, the following:
 - 1. A stipulation by the Contractor or subcontractors, that any facility to be utilized in the performance of any nonexempt contract or subcontract, is not listed on the "List of Violating Facilities" issued by the Environmental Protection Agency (EPA) pursuant to 40 CFR 15.20.
 - 2. Agreement by the Contractor to comply with all the requirements of Section 114 of the Clean Air Act, as amended, (42 USC 1857c-8) and Section 308 of the Federal Water Pollution Control Act, as amended, (33 USC 1318) relating to inspection, monitoring, entry, reports and information, as well as all other requirements specified in said Section 114 and Section 308, and all regulations and guidelines issued thereunder.
 - 3. A stipulation that as a condition for the award of the Contract, prompt notice will be given of any notification received from the Director, Office of Federal Activities, EPA, indicating that a facility utilized, or to be utilized for the contract, is under consideration to be listed on the EPA "List of Violating Facilities".
 - 4. Agreement by the Contractor that he will include, or cause to be included, the criteria and requirements in paragraph a through d of this section in every nonexempt subcontract and requiring that the Contractor will take such action as the Government may direct as a means of enforcing such provisions.

37. ACCESS TO RECORDS AND MAINTENANCE OF RECORDS

37.1 The State grantor agency (funding agency), the United States Treasury Department, the Comptroller General of the United States, or any of their duly authorized representatives, shall have access to any books, documents, papers and records of the Contractor which are directly pertinent to this specific contract, for the purpose of audits, examinations, and making excerpts and transcriptions. All records connected with this Contract will be maintained in a central location by the unit of local government and will be maintained for a period of six (6) years

from the official date of close-out of the Grant.

38. PROHIBITION: TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT

38.1 Design Builder, and his subcontractors agree to comply with mandatory standards and policies relating to use and procurement of certain telecommunications and video surveillance services or equipment in compliance with the National Defense Authorization Act [Public Law 115-232 § 889(f)(1)].

39. PROHIBITION OF SEGREGATED FACILITIES

- A. The Contractor (entity entering into a formal and legally binding agreement with the owner) agrees that it does not and will not maintain or provide for its employees any segregated facilities at any of its establishments, and that it does not and will not permit its employees to perform their services at any location under its control where segregated facilities are maintained. The Contractor agrees that a breach of this clause is a violation of the Equal Employment Opportunity clause in this contract.
- B. “Segregated facilities,” as used in this clause, means any waiting rooms, work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees that are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, sex, sexual orientation, gender identity, or national origin because of written or oral policies or employee custom. The term does not include separate or single-user rest rooms or necessary dressing or sleeping areas provided to assure privacy between the sexes.
- C. The Contractor shall include this clause in every subcontract and purchase order that is subject to the Equal Employment Opportunity clause of this Contract.

40. PROCUREMENT OF RECOVERED MATERIALS

40.1 Contractor (entity entering into a formal and legally binding agreement with the owner) and subcontractor agree to comply with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act, and the regulatory provisions of 40 CFR Part 247. In the performance of this Contract and to the extent practicable, the Contractor and Subcontractors are to use products containing the highest percentage of recovered materials for items designated by the Environmental Protection Agency (EPA) under 40 CFR Part 247 whenever:

- 1. The contract requires procurement of \$10,000 or more of a designated item during the fiscal year; or
- 2. The contractor has procured \$10,000 or more of a designated item using Federal funding during the previous fiscal year.

The list of EPA-designated items is available at www.epa.gov/smm/comprehensive-procurement-guidelines-construction-products.

Section 6002(c) establishes exceptions to the preference for recovery of EPA-designated products if the Contractor can demonstrate the item is:

- 1. Not reasonably available within a timeframe providing for compliance with the Contract performance schedule;
- 2. Fails to meet reasonable Contract performance requirements; or
- 3. Is only available at an unreasonable price.

41. DOMESTIC PREFERENCE FOR PROCUREMENT:

41.1 To the greatest extent practicable, the Design Builder will provide a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including, but not limited to, iron, aluminum, steel, cement, and other manufactured products) in compliance with 2 CFR § 200.322

42. SPECIAL EQUAL OPPORTUNITY PROVISIONS

Executive Order 11246

A. Section 202 Equal Opportunity Clause

During the performance of this Contract, the Contractor (entity entering into a formal and legally binding agreement with the owner) agrees as follows:

1. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to, the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
2. The contractor will, in all solicitations or advertisements for employees placed by or on behalf of Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.
3. The Contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee, or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the Contractor's legal duty to furnish information.
4. The Contractor will send to each labor union or representative of workers with which it has a collective bargaining agreement or other Contract or understanding, a notice to be provided by the agency contracting officer, advising the labor union or worker's representative of the Contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

5. The Contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
6. The Contractor will furnish all information and reports required by Executive Order 11246 or September 24, 1965, and the rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
7. In the event of the Contractor's non-compliance with the nondiscrimination clauses of this Contract or with any such rules, regulations, or orders, this Contract may be canceled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further government contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
8. The Contractor will include the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each Subcontractor or vendor. The Contractor will take such action with respect to any subcontract or purchase order as may be directed by the Secretary of Labor as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, that in the event the Contractor becomes involved in, or is threatened, with, litigation with a Subcontractor or vendor as a result of such direction, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

B. Notice of Requirement for Affirmative Action to Ensure Equal Employment Opportunity (Executive Order 11246).

1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth herein.
2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate work force in each trade on all construction work in the covered area, are as follows:

Goals for Female Participation: **6.9%**
 Goals for Minority Participation: % listed by County below

Bernalillo	38.3%	Catron	45.9%
Sandoval	"	Colfax	"
De Baca	45.9%		
Chaves	"	Guadalupe	45.9%
Doña Ana	"	Lincoln	"
Eddy	"	Los Alamos	"
Grant	"	McKinley	"
Hidalgo	"	Mora	"
Luna	"	Rio Arriba	"
Otero	"	San Juan	"
Sierra	"	San Miguel	"
Santa Fe	"		
Lea	"	Socorro	45.9%
Roosevelt	"	Taos	"
Torrance	"		
Curry	"	Valencia	45.9%
Harding	"		
Quay	"		
Union	"		

These goals are applicable to all the Contractor's construction work (whether or not it is federal or federally assisted) performed in the covered area. If the Contractor performs construction work in a geographic area located outside of the covered area, it shall apply the goals established for such geographic area where the work is actually performed. With regard to this second area, the Contractor also is subject to the goals for both its federally involved and non-federally involved construction.

The Contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals established for the geographic area where the Contract resulting from this solicitation is to be performed. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the Contract, the Executive Order, and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within 10 working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the Contract resulting from this solicitation. The notification shall list the name, address, and telephone number of the subcontractor; employer identification number; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the Contract is to be performed.
4. As used in this Notice, and in the Contract resulting from this solicitation, the "covered area" is Valencia County, New Mexico.

C. Standard Federal Equal Employment Opportunity Construction Contract Specifications (Executive Order 11246)

1. As used in these specifications:
 - a. *covered area* means the geographic area described in the solicitation from which this Contract resulted;
 - b. Director means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority;
 - c. Employer identification number means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.
 - d. Minority includes:
 - (1) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);
 - (2) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish culture or origin, regardless of race);
 - (3) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands); and

- (4) American Indian or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).
2. Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these Specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this Contract resulted.
3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or Subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or Subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or Subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.
4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7a through 7p of these Specifications. The goals set forth in the solicitation from which this Contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered construction contractors performing contracts in geographical areas where they do not have a federal or federally assisted construction contract shall apply the minority and female goals established for the geographic area where the contract is being performed. Goals are published periodically in the Federal Register in notice form and such notices may be obtained from any Office of Federal Contract Compliance Programs office or from federal procurement contracting officers. The Contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.
5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these Specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.
6. In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.
7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:
 - a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and

carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.

- b. Establish and maintain a current list of minority and female recruitment sources, provided written notification to minority and female recruitment sources and to community or its unions have employment opportunities available, and maintain a record of the organizations' responses.
- c. Maintain a current file of the names, addresses, and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source, or community organization and what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the Contractor may have taken.
- d. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
- e. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under 7b above.
- f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
- g. Review, at least annually, the company's EEO policy and affirmative action obligations under these Specifications with all employees having any responsibility for hiring, assignment, layoff, termination, or other employment decisions including specific review of these items with on-site supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
- h. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.
- i. Direct its recruitment efforts, both oral and written, to minority, female, and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.

- j. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer, and vacation employment to minority and female youth both on the site and in other areas of Contractor's work force.
 - k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.
 - l. Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
 - m. Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these Specifications are being carried out.
 - n. Ensure that all facilities and company activities are non-segregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
 - o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
 - p. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7a through 7p). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the Contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 7a through 7p of these Specifications provided that the Contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female work force participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation shall not be a defense for the Contractor's non-compliance.
9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized).
10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, sexual orientation, gender identity or national origin.
11. The Contractor shall not enter into any Subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.

12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulation, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.
14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.
15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and Community Development Block Grant Program).

D. Civil Rights Act of 1964

Under Title VI of the Civil Rights Act of 1964, no person shall, on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance.

E. Section 503 Handicapped (if \$ 10,000 or over), Affirmative Action for Handicapped Workers

1. The Contractor will not discriminate against any employee or applicant for employment because of physical or mental handicap in regard to any position for which the employee or applicant is qualified. The Contractor agrees to take affirmative action to employ, advance in employment and otherwise treat qualified handicapped individuals without discrimination based upon their physical or mental handicap in all employment practices such as the following: employment upgrading, demotion or transfer, recruitment, advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship.
2. The Contractor agrees to comply with the rules, regulations and relevant orders of the Secretary of Labor issued pursuant to this Act.
3. In the event of the Contractor's noncompliance with the requirements of this clause, actions for noncompliance may be taken in accordance with the rules, regulations, and relevant orders of the Secretary of Labor issued pursuant to this Act.

4. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices in a form to be prescribed by the Director, provided by or through the Contracting Officer. Such notices shall state the Contractor's obligation under the law to take affirmative action to employ and advance in employment qualified handicapped employees and applicants for employment, and the rights of applicants and employees.
5. The Contractor will notify each labor union or representative of workers with which it has a collective bargaining agreement or other contractual understanding, that the Contractor is bound by the terms of Section 503 of the Rehabilitation Act of 1973, and is committed to take affirmative action to employ and advance physically and mentally handicapped individuals.
6. The Contractor will include the provisions of this part in every subcontract or purchase order of \$10,000 or more unless exempted by the rules, regulation, or orders of the Secretary issued pursuant to Section 503 of the Act, so that such provisions will be binding upon each Subcontractor and vendor. The Contractor will take such action with respect to any subcontract or purchase order as the Director of the Office of Federal Contract Compliance Programs may direct to enforce such provisions, including action for noncompliance.

F. Age Discrimination Act of 1975

No person in the United States shall, on the basis of age, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under, any program or activity receiving Federal financial assistance.

43. FEDERAL LABOR STANDARDS AND MINIMUM WAGE RATES

- 43.1 The Project or Program to which the construction work covered by this Contract pertains is being assisted by the United States of America and subject to Federal Labor Standards Provisions included in this Contract pursuant to the Provisions applicable to such Federal assistance. Additionally:
- 43.2 The Contractor (entity entering into a formal and legally binding agreement with the owner), warrants and agrees that he, all Subcontractors and any further Subcontractors will comply with all applicable provisions of the New Mexico Public Works Minimum Wage Act, §13-4-11 NMSA 1978. The attached Minimum Wage Rate Determinations are declared to be prevailing and apply to all construction. Note: Applicable federal and state regulations require that the higher of the federal or the state wage rate for each classification must be paid.
- 43.3 Submission of weekly payroll records to the Owner and Department of Workforce Solutions is mandatory. Include the decision number on Contractor's and Subcontractor's payrolls. The scale of wages must also be posted in a prominent location at the site.
- 43.4 In the event it is found by the Labor Commission, that any laborer or mechanic employed by the Contractor, Subcontractor or any further Subcontractors on the site of the project covered by this Contract, has been or is being paid as a result of a willful violation, a rate of wages less than the rate of wages required by the Contract, the Owner may, by written notice to the Contractor, his Subcontractor or any further Subcontractors if the violation involves a Subcontractor, terminate their right to proceed with the Work or such part of the Work as to which there has been a willful failure to pay the required wages and the Owner may prosecute the work to completion by contract or otherwise, and the Contractor, Subcontractor or any further Subcontractor shall be liable to the Owner and the State of New Mexico for any excess cost occasioned thereby. If the Owner or State of New Mexico is unable to collect from the Subcontractor or any further Subcontractors, the Contractor will be liable for all costs.

44. FEDERAL LABOR STANDARD PROVISIONS

Applicability

The Project or Program to which the construction work covered by this Contract pertains is being assisted by the United States of America and the following Federal Labor Standards Provisions are included in this Contract pursuant to the Provisions applicable to such Federal assistance.

A. 1. (i) Minimum Wages. All laborers and mechanics employed or working upon the site of the work (or under the United State Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR Part 3), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics. Contributions made or costs reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of 29 CFR 5.5(a)(1)iv); also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made of incurred during such weekly period.

Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR Part 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein; provided, that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under 29 CFR Part 5.5(a)(1)(ii) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

(ii) (a) The contracting officer shall require that any class of laborers or mechanics which is not listed in the wage determination, and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

- (1) The work to be performed by the classification requested is not performed by a classification in the wage determination; and
- (2) The classification is utilized in the area by the construction industry; and
- (3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(ii) (b) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits were appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and

Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, D.C. 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30 day period that additional time is necessary.

- (ii) (c) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30 day period that additional time is necessary.
 - (ii) (d) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs (a)(1)(ii)(b) or (c) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.
 - (iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.
 - (iv) If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages or any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program. Provided, that the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.
- 2. Withholding.** The United States Department of the Treasury shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees and helpers required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee or helper, employed or working on the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), all or part of the wages required by the contract, The United States Department of the Treasury may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.
- 3. (i) Payrolls and Basic Records.** Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work (or under the United States Housing Act of 1937, or under the Housing Act of 1949, in the construction or development of the project). Such records shall contain

the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in Section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5 (a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in Section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

(ii) (a) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the United States Department of the Treasury if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the payrolls to the applicant, sponsor, or owner, as the case may be for transmission to the United States Department of the Treasury. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR Part 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee. (e.g.), the last four digits of the employee's social security number. This information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/ese/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the United States Department of the Treasury if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit them to the applicant, sponsor, or owner, as the case may be, for transmission to the United States Department of the Treasury, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the sponsoring government agency (or the applicant, sponsor, or owner).

(ii) (b) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

- (1) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR Part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;
- (2) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid in full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in 29 CFR Part 3;

- (3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.
- (ii) (c) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph A.3.(ii)(b) of this section.
- (ii) (d) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 231 of Title 31 of the United States Code.
- (iii) The contractor or subcontractor shall make the records required under paragraph A.3.(i) of this section available for inspection, copying, or transcription by authorized representatives of the United States Department of the Treasury or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the Federal agency may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR Part 5.12.

4. Apprentices and Trainees.

- (i) **Apprentices.** Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship and Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to any contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level or progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event

the Office of Apprenticeship Training, Employer, and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(iii) Equal Employment Opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirement of Executive Order 11246, as amended and 29 CFR Part 30.

- 5. Compliance with Copeland Act Requirements.** The contractor shall comply with the requirements 29 CFR Part 3 which are incorporated by reference in this contract.
- 6. Subcontracts.** The contractor or subcontractor will insert in any subcontracts the clauses contained in 29 CFR 5.5(a)(1) through (10) and such other clauses as the United States Department of the Treasury may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR Part 5.5.
- 7. Contract Termination; Debarment.** A breach of the contract clauses in 9 CFR 5.5 may be grounds for termination of the contract and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.
- 8. Compliance with Davis-Bacon and Related Act Requirements.** All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR Parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes Concerning Labor Standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. (i) Certification of Eligibility. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of Section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of Section 3(a) of the Davis-Bacon Act of 29 CFR 5.12(a)(1).

(iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

B. Contract Work Hours and Safety Standards Act. As used in this paragraph, the terms "laborers" and "mechanics" include watchmen and guards.

1. Overtime Requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; Liability for Unpaid Wages; Liquidated Damages. In the event of any violation of the clause set forth in paragraph (b)(1) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contractor for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards employed in violation of the clause set forth in paragraph (b)(1) of this section, in the sum of \$31 (or as otherwise specified by the Contract Work Hours and Safety Standards Act (CWHSSA) for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (b)(1) of this paragraph.

3. Withholding for Unpaid Wages and Liquidated Damages. The United States Department of the Treasury shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (b)(2) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraphs (b)(1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (b)(1) through (4) of this paragraph.

45. ATTACHMENT TO FEDERAL LABOR STANDARDS PROVISIONS

**SO-CALLED "ANTI-KICKBACK ACT" AND REGULATIONS PROMULGATED
PURSUANT THERETO BY THE SECRETARY OF LABOR
UNITED STATES DEPARTMENT OF LABOR**

TITLE 18, U.S.C., section 874

(Replaces section 1 of the Act of June 13, 1934 [48 Stat. 948, 40 U.S.C., sec. 276b]
pursuant to the Act of June 25, 1948, 62 Stat. 862)

KICKBACKS FROM PUBLIC WORKS EMPLOYEES

Whoever, by force, intimidation, or threat of procuring dismissal from employment, or by any other manner whatsoever induces any person employed in the construction, prosecution, completion or repair of any public building, public work, or building or work financed in whole or in part by loans or grants from the United States, to give up any part of the compensation to which he is entitled under his Contract of employment, shall be fined not more than \$5,000 or imprisoned not more than five years, or both.

**SECTION 2 OF THE ACT OF JUNE 13, 1934, AS AMENDED
(48 Stat. 948, 62 Stat. 862, 63 Stat. 108, 72 Stat. 967, 40 U.S.C., sec 276c)**

The Secretary of Labor shall make reasonable regulations for Contractors and Subcontractors engaged in the construction, prosecution, completion or repair of public buildings, public works or buildings or works financed in whole or in part by loans or grants from the United States, including a provision that each Contractor and Subcontractor shall furnish weekly a statement with respect to the wages paid each employee during the preceding week. Section 1001 of Title 18 (United State Code) shall apply to such statements.

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Pursuant to the aforesaid Anti-Kickback Act, the Secretary of Labor, United States Department of Labor, has promulgated the regulations hereinafter set forth, which regulations are found in Title 29, Subtitle A, Code of Federal Regulations, Part 3. The term "this part," as used in the regulations hereinafter set forth, refers to Part 3 last above mentioned. Said regulations are as follows:

TITLE 29 - LABOR

Subtitle A - Office of the Secretary of Labor

**PART 3-CONTRACTORS AND SUBCONTRACTORS ON PUBLIC BUILDING OR PUBLIC WORK FINANCED IN WHOLE
OR IN PART BY LOANS OR GRANTS FROM THE UNITED STATES**

Section 3.1 Purpose and Scope.

This part prescribes "anti-kickback" regulations under section 2 of the Act of June 13, 1934, as amended (40 U.S.C. 276c), popularly known as the Copeland Act. This part applies to any contract which is subject to Federal wage standards and which is for the construction, prosecution, completion, or repair of public buildings, public works or buildings or works financed in whole or in part by loans or grants from the United States. The part is intended to aid in the enforcement of the minimum wage provisions of the Davis-Bacon Act and the various

statutes dealing with Federally assisted constructions that contain similar minimum wage provisions, including those provisions which are not subject to Reorganization Plan No. 14 (e.g., the College Housing Act of 1950, the Federal Water Pollution Control Act, and the Housing Act of 1959), and in the enforcement of the overtime provisions of the Contract Work Hours Standards Act whenever they are applicable to construction work. The part details the obligation of contractors and subcontractors relative to the weekly submission of statements regarding the wages paid on work covered thereby; sets forth the circumstances and procedures governing the making of payroll deductions from the wages of those employed on such work; and delineates the methods of payment permissible on such work.

Section 3.2 Definitions.

As used in the regulations in this part:

- (a) The terms "building" or "work" generally include construction activity as distinguished from manufacturing, furnishing of materials, or servicing and maintenance work. The terms include, without limitation, buildings, structures, and improvements of all types, such as bridges, dams, plants, highways, parkways, streets, subways, tunnels, sewers, mains, power lines, pumping stations, railways, airports, terminals, docks, piers, wharves, ways, lighthouses, buoys, jetties, breakwaters, levers, and canals; dredging, shoring, scaffolding, drilling, blasting, excavating, clearing, and landscaping. Unless conducted in connection with and at the site of such building or work as is described in the foregoing sentence, the manufacture or furnishing of materials, articles, supplies, or equipment (whether or not a Federal or State agency acquires title to such materials, articles, supplies, or equipment during the course of the manufacture or furnishing, or owns the materials from which they are manufactured or furnished) is not a "building" or "work" within the meaning of the regulations in this part.
- (b) The terms "construction," "prosecution," "completion," or "repair" means all types of work done on a particular building or work at the site thereof, including, without limitation, altering, remodeling, painting and decorating, the transporting of materials and supplies to or from the building or work by the employees of the construction contractor or construction subcontractor, and the manufacturing or furnishing of materials, articles, supplies, or equipment on the site of the building or work, by persons employed at the site by the contractor or subcontractor.
- (c) The terms "public building" or "public work" include building or work for whose construction, prosecution, completion, or repair, as defined above, a Federal agency is a contracting party, regardless of whether title thereof is in a Federal agency.
- (d) The term "building or work financed in whole or in part by loans or grants from the United States" includes building or work for whose construction, prosecution, completion, or repair, as defined above, payment or part payment is made directly or indirectly from funds provided by loans or grants by a Federal agency. The term does not include building or work for which Federal assistance is limited solely to loan guarantees or insurance.
- (e) Every person paid by a contractor or subcontractor in any manner for his labor in the construction, prosecution, completion, or repair of a public building or public work or building or work financed in whole or in part by loans or grants from the United States is "employed" and receiving "wages," regardless of any contracted relationship alleged to exist between him and the real employer.
- (f) The term "any affiliated person" includes a spouse, child, parent, or other close relative of the contractor or subcontractor; a partner or officer of the contractor or subcontractor; a corporation

closely connected with the contractor or subcontractor as parent, subsidiary or otherwise, and an officer or agent of such corporation.

- (g) The term "Federal agency" means the United States, the District of Columbia, and all executive departments, independent establishments, administrative agencies, and instrumentalities of the United States and of the District of Columbia, including corporations, all or substantially all of the stock of which is beneficially owned by the United States, by the District of Columbia, or any of the foregoing departments, establishments, agencies and instrumentalities.

Section 3.3 Weekly Statement with Respect to Payment of Wages.

- (a) As used in this section, the term "employees" shall not apply to persons in classifications higher than that of laborer or mechanic and those who are the immediate supervision of such employees.
- (b) Each contractor or subcontractor engaged in the construction, prosecution, completion, or repair of any public building or public work, or building or work financed in whole or in part by loans or grants from the United States shall furnish each week a statement with respect to the wages paid each of its employees engaged on work covered by 29 CFR Parts 3 and 5 during the preceding weekly payroll period. This statement shall be executed by the contractor or subcontractor or by an authorized officer or employee of the contractor or subcontractor who supervises the payment of wages and shall be on form WH 348, "Statement of Compliance", or on an identical form on the back of WH 317, "Payroll (For Contractors Optional Use)" or on any form with identical wording. Sample copies of WH 347 and WH 348 may be obtained from the Government contracting or sponsoring agency, and copies of these forms may be purchased at the Government Printing Office.
- (c) The requirements of this section shall not apply to any contract of \$2,000 or less.
- (d) Upon a written finding by the head of a Federal agency, the Secretary of Labor may provide reasonable limitations, variations, tolerances, and exemptions from the requirements of this section subject to such conditions as the Secretary of Labor may specify.

(20 F.R. 93, Jan. 4, 1964, as amended at 33 F.R. 10186, July 17, 1968)

Section 3.4 Submission of Weekly Statements and the Preservation and Inspection of Weekly Payroll Records.

- (a) Each weekly statement required under section 3.3 shall be delivered by the contractor or subcontractor, within seven days after the regular payment date of the payroll period, to a representative of a Federal or State agency in charge at the site of the building or work, or, if there is no representative of a Federal or State agency at the site of the building of work, the statement shall be mailed by the contractor or subcontractor, within such time, to a Federal or State agency contracting for or financing the building or work. After such examination and check as may be made, such statement, or a copy thereof, shall be kept available, or shall be transmitted together with a report of any violation, in accordance with applicable procedures prescribed by the United States Department of Labor.
- (b) Each contractor or subcontractor shall preserve his weekly payroll records for a period of three years from date of completion of the contract. The payroll records shall set out accurately and completely the name and address of each laborer and mechanic, his correct classification, rate of pay, daily and weekly number of hours worked, deductions made, and actual wages paid. Such payroll records shall be made available at all times for inspection by the contracting officer or his authorized

representative, and by authorized representatives of the Department of Labor.

Section 3.5 Payroll Deductions Permissible Without Application to or Approval of the Secretary of Labor.

Deductions made under the circumstances or in the situations described in the paragraphs of this section may be made without application and approval of the Secretary of Labor:

- (a) Any deduction made in compliance with the requirements of Federal, State, or local law, such as Federal or State withholding income taxes and Federal social security taxes.
- (b) Any deductions of sums previously paid to the employee as a bona fide prepayment of wages when such prepayment is made without discount or interest. A "bona fide prepayment of wages" is considered to have been made only when cash or its equivalent has been advanced to the person employed in such manner as to give him complete freedom of disposition of the advanced funds.
- (c) Any deduction of amounts required by court process to be paid to another, unless the deduction is in favor of the contractor, subcontractor or any affiliated person, or when collusion or collaboration exists.
- (d) Any deduction constituting a contribution on behalf of the person employed to funds established by the employer or representatives of employees, or both, for the purpose of providing either from principal or income, or both, medical or hospital care, pensions or annuities on retirement, death benefits, compensation for injuries, illness, accidents, sickness, or disability, or for insurance to provide any of the foregoing, or unemployment benefits, vacation pay, savings accounts, or similar payments for the benefit of employee, their families and dependents; Provided, however, that the following standards are met: (1) The deduction is not otherwise prohibited by law; (2) it is either (i) voluntarily consented to by the employee in writing and in advance of the period in which the work is to be done and such consent is not a condition either for the obtaining of or for the continuation of employment, or (ii) provided for in a bona fide collective bargaining agreement between the contractor or subcontractor and representatives of its employees; (3) no profit or other benefit is otherwise obtained, directly or indirectly, by the contractor or subcontractor or any affiliated person in the form of commissions, dividend, or otherwise; and (4) the deductions shall serve the convenience and interest of the employee.
- (e) Any deduction contributing toward the purchase of United States Defense Stamps and Bonds when voluntarily authorized by the employee.
- (f) Any deduction requested by the employee to enable him to repay loans to or to purchase shares in credit unions organized and operated in accordance with Federal and State credit union statutes.
- (g) Any deduction voluntarily authorized by the employee for the making of contributions to governmental or quasi-governmental agencies, such as the American Red Cross.
- (h) Any deductions voluntarily authorized by the employee for the making of contributions to Community Chests, United Givers Funds, and similar charitable organizations.
- (i) Any deductions to pay regular union initiation fees and membership dues, not including fines or special assessments; Provided however, that a collective bargaining agreement between the contractor or subcontractor and representatives of its employees provides for such deductions and the deductions are not otherwise prohibited by law.

- (j) Any deduction not more than for the "reasonable cost" of board, lodging, or other facilities meeting the requirements of section 3(m) of the Fair Labor Standards Act of 1938, as amended, and Part 531 of this title. When such a deduction is made the additional records required under section 516.27(a) of this title shall be kept.

Section 3.6 Payroll Deductions Permissible with the Approval of the Secretary of Labor

Any contractor or subcontractor may apply to the Secretary of Labor for permission to make any deduction not permitted under Section 3.5. The Secretary may grant permission whenever he finds that:

- (a) The contractor, subcontractor, or any affiliated person does not make a profit or benefit directly or indirectly the deduction either in the form of a commission, dividend, or otherwise;
- (b) The deduction is not otherwise prohibited by law;
- (c) The deduction is either (1) voluntarily consented to by the employee in writing and in advance of the period in which the work is to be done and such consent is not a condition either for the obtaining of employment or its continuance, or (2) provided for in a bona fide collective bargaining agreement between the contractor or subcontractor and representative of its employees; and
- (d) The deduction serves the convenience and interest of the employee.

Section 3.7 Applications for the Approval of the Secretary of Labor

Any application for the making of payroll deductions under section 3.6 shall comply with the requirements prescribed in the following paragraphs of this section:

- (a) The application shall be in writing and shall be addressed to the Secretary of Labor.
- (b) The application shall identify the contract or contracts under which the work in question is to be performed. Permission will be given for deductions only on specific, identified contracts, except upon a showing of exceptional circumstances.
- (c) The application shall state affirmatively that there is compliance with the standards set forth in the provisions of section 3.6. The affirmation shall be accompanied by a full statement of the facts indicating such compliance.
- (d) The application shall include a description of the proposed deduction, the purpose to be served thereby, and the classes of laborers or mechanics from whose wages the proposed deduction would be made.
- (e) The application shall state the name and business of any third person to whom any funds obtained from the proposed deductions are to be transmitted and the affiliation of such person, if any, with the applicant.

Section 3.8 Action by the Secretary of Labor Upon Applications.

The Secretary of Labor shall decide whether or not the requested deduction is permissible under provisions of section 3.6; and shall notify the applicant in writing of his decision.

Section 3.9 Prohibited Payroll Deductions.

Deductions not elsewhere provided for by this part and which are not found to be permissible under Section 3.6 are prohibited.

Section 3.10 Methods of Payment of Wages.

The payment of wages shall be by cash, negotiable instruments payable on demand, or the additional forms of compensation for which deductions are permissible under this part. No other methods of payment shall be recognized on work subject to the Copeland Act.

Section 3.11 Regulations Part of Contract.

All contracts made with respect to the construction, prosecution, completion, or repair of any public building or public work or building or work financed in whole or in part by loans or grants from the United States covered by the regulations in this part shall expressly bind the contractor or subcontractor to comply with such of the regulations in this part as may be applicable. In this regard, see section 5.5(a) of the subtitle.

46. PROJECT IDENTIFICATION SIGN

46.1 The Design Builder as an incidental cost shall provide, erect, and maintain for the duration of the construction project one identification sign at each construction site. The sign shall be painted on one side with a background color of yellow with red lettering of 3/4" thick, not smaller than 4' by 6' nor larger than 4' by 8', marine grade plywood. Each sign shall be mounted on two 4" by 4" posts, with the bottom of the sign at least 4' above grade. The sign shall be mounted level and at the location designated by the Owner. The sign shall be salvaged to the Owner at the end of the construction project.

Sample Sign

Sign shall be yellow background with red letters

[2 1/2"]



[Logo - 1'-6" Dia./Sq.]

[1-1/2"]

GOVERNOR
Michelle Lujan Grisham



[1"]

**VALENCIA COUNTY
BOARD OF COUNTY
COMMISSIONERS**

[1"]

GERARD SAIZ, DISTRICT 1
TROY RICHARDSON, DISTRICT 2
MORRIS SPARKMAN, DISTRICT 3

[1"]

JOSEPH BIZZELL, DISTRICT 4

[1"]

JHONATHAN ARAGON, DISTRICT 5

[2"] **VALENCIA COUNTY
PROJECT**

[3"] **VALENCIA COUNTY HOSPITAL
VALENCIA COUNTY HOSPITAL**

OWNER'S REPRESENTATIVE

MOLZEN CORBIN
2701 MILES RD SE
ALBUQUERQUE, NM 87106
PHONE 505-242-5700

[1-1/2"]

[1-1/2"]

[1"]

[1"]

[1"]

DESIGN-BUILD TEAM

(NAME)

(ADDRESS)

(CITY, STATE, ZIP CODE)

(PHONE 505-000-0000)

OWNER

VALENCIA COUNTY

[1-1/2"]

444 LUNA AVENUE
LOS LUNAS, NM 87031

[1"]

FUNDING

Coronavirus State and Local
Fiscal Recovery Funds

[1"]

PHONE 505-866-2001

[1"]

DANNY MONETTE
COUNTY MANAGER

[1"]

[1"]

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IX. FEDERAL LABOR STANDARDS PROVISIONS

Applicability

The Project or Program to which the construction work covered by this Contract pertains is being assisted by the United States of America and the following Federal Labor Standards Provisions are included in this Contract pursuant to the Provisions applicable to such Federal assistance.

A. 1. (i) Minimum Wages. All laborers and mechanics employed or working upon the site of the work (or under the United State Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR Part 3), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics. Contributions made or costs reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of 29 CFR 5.5(a)(1)iv); also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made of incurred during such weekly period.

Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR Part 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein; provided, that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under 29 CFR Part 5.5(a)(1)(ii) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

(ii) (a) The contracting officer shall require that any class of laborers or mechanics which is not listed in the wage determination, and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

- (1) The work to be performed by the classification requested is not performed by a classification in the wage determination; and
- (2) The classification is utilized in the area by the construction industry; and
- (3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(ii) (b) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits were appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and

Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, D.C. 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30 day period that additional time is necessary.

- (ii) (c) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30 day period that additional time is necessary.
- (ii) (d) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs (a)(1)(ii)(b) or (c) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.
- (iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.
- (iv) If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages or any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program. Provided, that the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. **Withholding.** The United States Department of the Treasury shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees and helpers required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee or helper, employed or working on the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), all or part of the wages required by the contract, The United States Department of the Treasury may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.
3. (i) **Payrolls and Basic Records.** Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work (or under the United States Housing Act of 1937, or under the Housing Act of 1949, in the construction or development of the project). Such records shall contain

the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in Section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5 (a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in Section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

(ii) (a) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the United States Department of the Treasury if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the payrolls to the applicant, sponsor, or owner, as the case may be for transmission to the United States Department of the Treasury. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR Part 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee. (e.g.), the last four digits of the employee's social security number. This information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/ese/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the United States Department of the Treasury if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit them to the applicant, sponsor, or owner, as the case may be, for transmission to the United States Department of the Treasury, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the sponsoring government agency (or the applicant, sponsor, or owner).

(ii) (b) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

- (1) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR Part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;
- (2) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid in full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in 29 CFR Part 3;

- (3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.
- (ii) (c) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph A.3.(ii)(b) of this section.
- (ii) (d) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 231 of Title 31 of the United States Code.
- (iii) The contractor or subcontractor shall make the records required under paragraph A.3.(i) of this section available for inspection, copying, or transcription by authorized representatives of the United States Department of the Treasury or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the Federal agency may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR Part 5.12.

5. Apprentices and Trainees.

- (i) **Apprentices.** Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship and Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to any contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level or progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event

the Office of Apprenticeship Training, Employer, and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(iii) Equal Employment Opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirement of Executive Order 11246, as amended and 29 CFR Part 30.

- 5. Compliance with Copeland Act Requirements.** The contractor shall comply with the requirements 29 CFR Part 3 which are incorporated by reference in this contract.
- 6. Subcontracts.** The contractor or subcontractor will insert in any subcontracts the clauses contained in 29 CFR 5.5(a)(1) through (10) and such other clauses as the United States Department of the Treasury may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR Part 5.5.
- 7. Contract Termination; Debarment.** A breach of the contract clauses in 9 CFR 5.5 may be grounds for termination of the contract and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.
- 8. Compliance with Davis-Bacon and Related Act Requirements.** All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR Parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes Concerning Labor Standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. (i) Certification of Eligibility. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of Section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of Section 3(a) of the Davis-Bacon Act of 29 CFR 5.12(a)(1).

(iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

B. Contract Work Hours and Safety Standards Act. As used in this paragraph, the terms "laborers" and "mechanics" include watchmen and guards.

1. Overtime Requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; Liability for Unpaid Wages; Liquidated Damages. In the event of any violation of the clause set forth in paragraph (b)(1) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contractor for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards employed in violation of the clause set forth in paragraph (b)(1) of this section, in the sum of \$31 (or as otherwise specified by the Contract Work Hours and Safety Standards Act (CWHSSA) for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (b)(1) of this paragraph.

3. Withholding for Unpaid Wages and Liquidated Damages. The United States Department of the Treasury shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (b)(2) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraphs (b)(1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (b)(1) through (4) of this paragraph.

ATTACHMENT TO FEDERAL LABOR STANDARDS PROVISIONS

**SO-CALLED "ANTI-KICKBACK ACT" AND REGULATIONS PROMULGATED
PURSUANT THERETO BY THE SECRETARY OF LABOR
UNITED STATES DEPARTMENT OF LABOR**

TITLE 18, U.S.C., section 874

(Replaces section 1 of the Act of June 13, 1934 [48 Stat. 948, 40 U.S.C., sec. 276b]
pursuant to the Act of June 25, 1948, 62 Stat. 862)

KICKBACKS FROM PUBLIC WORKS EMPLOYEES

Whoever, by force, intimidation, or threat of procuring dismissal from employment, or by any other manner whatsoever induces any person employed in the construction, prosecution, completion or repair of any public building, public work, or building or work financed in whole or in part by loans or grants from the United States, to give up any part of the compensation to which he is entitled under his Contract of employment, shall be fined not more than \$5,000 or imprisoned not more than five years, or both.

**SECTION 2 OF THE ACT OF JUNE 13, 1934, AS AMENDED
(48 Stat. 948, 62 Stat. 862, 63 Stat. 108, 72 Stat. 967, 40 U.S.C., sec 276c)**

The Secretary of Labor shall make reasonable regulations for Contractors and Subcontractors engaged in the construction, prosecution, completion or repair of public buildings, public works or buildings or works financed in whole or in part by loans or grants from the United States, including a provision that each Contractor and Subcontractor shall furnish weekly a statement with respect to the wages paid each employee during the preceding week. Section 1001 of Title 18 (United State Code) shall apply to such statements.

---X X X---

Pursuant to the aforesaid Anti-Kickback Act, the Secretary of Labor, United States Department of Labor, has promulgated the regulations hereinafter set forth, which regulations are found in Title 29, Subtitle A, Code of Federal Regulations, Part 3. The term "this part," as used in the regulations hereinafter set forth, refers to Part 3 last above mentioned. Said regulations are as follows:

TITLE 29 - LABOR

Subtitle A - Office of the Secretary of Labor

**PART 3-CONTRACTORS AND SUBCONTRACTORS ON PUBLIC BUILDING OR PUBLIC WORK FINANCED IN
WHOLE OR IN PART BY LOANS OR GRANTS FROM THE UNITED STATES**

Section 3.1 Purpose and Scope.

This part prescribes "anti-kickback" regulations under section 2 of the Act of June 13, 1934, as amended (40 U.S.C. 276c), popularly known as the Copeland Act. This part applies to any contract which is subject to Federal wage standards and which is for the construction, prosecution, completion, or repair

of public buildings, public works or buildings or works financed in whole or in part by loans or grants from the United States. The part is intended to aid in the enforcement of the minimum wage provisions of the Davis-Bacon Act and the various statutes dealing with Federally assisted constructions that contain similar minimum wage provisions, including those provisions which are not subject to Reorganization Plan No. 14 (e.g., the College Housing Act of 1950, the Federal Water Pollution Control Act, and the Housing Act of 1959), and in the enforcement of the overtime provisions of the Contract Work Hours Standards Act whenever they are applicable to construction work. The part details the obligation of contractors and subcontractors relative to the weekly submission of statements regarding the wages paid on work covered thereby; sets forth the circumstances and procedures governing the making of payroll deductions from the wages of those employed on such work; and delineates the methods of payment permissible on such work.

Section 3.2 Definitions.

As used in the regulations in this part:

- (a) The terms "building" or "work" generally include construction activity as distinguished from manufacturing, furnishing of materials, or servicing and maintenance work. The terms include, without limitation, buildings, structures, and improvements of all types, such as bridges, dams, plants, highways, parkways, streets, subways, tunnels, sewers, mains, power lines, pumping stations, railways, airports, terminals, docks, piers, wharves, ways, lighthouses, buoys, jetties, breakwaters, levers, and canals; dredging, shoring, scaffolding, drilling, blasting, excavating, clearing, and landscaping. Unless conducted in connection with and at the site of such building or work as is described in the foregoing sentence, the manufacture or furnishing of materials, articles, supplies, or equipment (whether or not a Federal or State agency acquires title to such materials, articles, supplies, or equipment during the course of the manufacture or furnishing, or owns the materials from which they are manufactured or furnished) is not a "building" or "work" within the meaning of the regulations in this part.
- (b) The terms "construction," "prosecution," "completion," or "repair" means all types of work done on a particular building or work at the site thereof, including, without limitation, altering, remodeling, painting and decorating, the transporting of materials and supplies to or from the building or work by the employees of the construction contractor or construction subcontractor, and the manufacturing or furnishing of materials, articles, supplies, or equipment on the site of the building or work, by persons employed at the site by the contractor or subcontractor.
- (c) The terms "public building" or "public work" include building or work for whose construction, prosecution, completion, or repair, as defined above, a Federal agency is a contracting party, regardless of whether title thereof is in a Federal agency.
- (d) The term "building or work financed in whole or in part by loans or grants from the United States" includes building or work for whose construction, prosecution, completion, or repair, as defined above, payment or part payment is made directly or indirectly from funds provided by loans or grants by a Federal agency. The term does not include building or work for which Federal assistance is limited solely to loan guarantees or insurance.

- (e) Every person paid by a contractor or subcontractor in any manner for his labor in the construction, prosecution, completion, or repair of a public building or public work or building or work financed in whole or in part by loans or grants from the United States is "employed" and receiving "wages," regardless of any contracted relationship alleged to exist between him and the real employer.
- (f) The term "any affiliated person" includes a spouse, child, parent, or other close relative of the contractor or subcontractor; a partner or officer of the contractor or subcontractor; a corporation closely connected with the contractor or subcontractor as parent, subsidiary or otherwise, and an officer or agent of such corporation.
- (g) The term "Federal agency" means the United States, the District of Columbia, and all executive departments, independent establishments, administrative agencies, and instrumentalities of the United States and of the District of Columbia, including corporations, all or substantially all of the stock of which is beneficially owned by the United States, by the District of Columbia, or any of the foregoing departments, establishments, agencies and instrumentalities.

Section 3.3 Weekly Statement with Respect to Payment of Wages.

- (a) As used in this section, the term "employees" shall not apply to persons in classifications higher than that of laborer or mechanic and those who are the immediate supervision of such employees.
- (b) Each contractor or subcontractor engaged in the construction, prosecution, completion, or repair of any public building or public work, or building or work financed in whole or in part by loans or grants from the United States shall furnish each week a statement with respect to the wages paid each of its employees engaged on work covered by 29 CFR Parts 3 and 5 during the preceding weekly payroll period. This statement shall be executed by the contractor or subcontractor or by an authorized officer or employee of the contractor or subcontractor who supervises the payment of wages and shall be on form WH 348, "Statement of Compliance", or on an identical form on the back of WH 317, "Payroll (For Contractors Optional Use)" or on any form with identical wording. Sample copies of WH 347 and WH 348 may be obtained from the Government contracting or sponsoring agency, and copies of these forms may be purchased at the Government Printing Office.
- (c) The requirements of this section shall not apply to any contract of \$2,000 or less.
- (d) Upon a written finding by the head of a Federal agency, the Secretary of Labor may provide reasonable limitations, variations, tolerances, and exemptions from the requirements of this section subject to such conditions as the Secretary of Labor may specify.

(20 F.R. 93, Jan. 4, 1964, as amended at 33 F.R. 10186, July 17, 1968)

Section 3.4 Submission of Weekly Statements and the Preservation and Inspection of Weekly Payroll Records.

- (a) Each weekly statement required under section 3.3 shall be delivered by the contractor or subcontractor, within seven days after the regular payment date of the payroll period, to a representative of a Federal or State agency in charge at the site of the building or work, or, if there is no representative of a Federal or State agency at the site of the building or work, the statement shall be mailed by the contractor or subcontractor, within such time, to a Federal or State agency contracting for or financing the building or work. After such examination and check as may be made, such statement, or a copy thereof, shall be kept available, or shall be transmitted together with a report of any violation, in accordance with applicable procedures prescribed by the United States Department of Labor.
- (b) Each contractor or subcontractor shall preserve his weekly payroll records for a period of three years from date of completion of the contract. The payroll records shall set out accurately and completely the name and address of each laborer and mechanic, his correct classification, rate of pay, daily and weekly number of hours worked, deductions made, and actual wages paid. Such payroll records shall be made available at all times for inspection by the contracting officer or his authorized representative, and by authorized representatives of the Department of Labor.

Section 3.5 Payroll Deductions Permissible Without Application to or Approval of the Secretary of Labor.

Deductions made under the circumstances or in the situations described in the paragraphs of this section may be made without application and approval of the Secretary of Labor:

- (a) Any deduction made in compliance with the requirements of Federal, State, or local law, such as Federal or State withholding income taxes and Federal social security taxes.
- (b) Any deductions of sums previously paid to the employee as a bona fide prepayment of wages when such prepayment is made without discount or interest. A "bona fide prepayment of wages" is considered to have been made only when cash or its equivalent has been advanced to the person employed in such manner as to give him complete freedom of disposition of the advanced funds.
- (c) Any deduction of amounts required by court process to be paid to another, unless the deduction is in favor of the contractor, subcontractor or any affiliated person, or when collusion or collaboration exists.
- (d) Any deduction constituting a contribution on behalf of the person employed to funds established by the employer or representatives of employees, or both, for the purpose of providing either from principal or income, or both, medical or hospital care, pensions or annuities on retirement, death benefits, compensation for injuries, illness, accidents, sickness, or disability, or for insurance to provide any of the foregoing, or unemployment benefits, vacation pay, savings accounts, or similar payments for the benefit of employee, their families and dependents; Provided, however, that the following standards are met: (1) The deduction is not otherwise prohibited by law; (2) it is either (i) voluntarily consented to by the employee in writing and in advance of the period in which the work is to be done

- and such consent is not a condition either for the obtaining of or for the continuation of employment, or (ii) provided for in a bona fide collective bargaining agreement between the contractor or subcontractor and representatives of its employees; (3) no profit or other benefit is otherwise obtained, directly or indirectly, by the contractor or subcontractor or any affiliated person in the form of commissions, dividend, or otherwise; and (4) the deductions shall serve the convenience and interest of the employee.
- (e) Any deduction contributing toward the purchase of United States Defense Stamps and Bonds when voluntarily authorized by the employee.
 - (f) Any deduction requested by the employee to enable him to repay loans to or to purchase shares in credit unions organized and operated in accordance with Federal and State credit union statutes.
 - (g) Any deduction voluntarily authorized by the employee for the making of contributions to governmental or quasi-governmental agencies, such as the American Red Cross.
 - (h) Any deductions voluntarily authorized by the employee for the making of contributions to Community Chests, United Givers Funds, and similar charitable organizations.
 - (i) Any deductions to pay regular union initiation fees and membership dues, not including fines or special assessments; Provided however, that a collective bargaining agreement between the contractor or subcontractor and representatives of its employees provides for such deductions and the deductions are not otherwise prohibited by law.
 - (j) Any deduction not more than for the "reasonable cost" of board, lodging, or other facilities meeting the requirements of section 3(m) of the Fair Labor Standards Act of 1938, as amended, and Part 531 of this title. When such a deduction is made the additional records required under section 516.27(a) of this title shall be kept.

Section 3.6 Payroll Deductions Permissible with the Approval of the Secretary of Labor

Any contractor or subcontractor may apply to the Secretary of Labor for permission to make any deduction not permitted under Section 3.5. The Secretary may grant permission whenever he finds that:

- (a) The contractor, subcontractor, or any affiliated person does not make a profit or benefit directly or indirectly the deduction either in the form of a commission, dividend, or otherwise;
- (b) The deduction is not otherwise prohibited by law;
- (c) The deduction is either (1) voluntarily consented to by the employee in writing and in advance of the period in which the work is to be done and such consent is not a condition either for the obtaining of employment or its continuance, or (2) provided for in a bona fide collective bargaining agreement between the contractor or subcontractor and representative of its employees; and
- (d) The deduction serves the convenience and interest of the employee.

Section 3.7 Applications for the Approval of the Secretary of Labor

Any application for the making of payroll deductions under section 3.6 shall comply with the requirements prescribed in the following paragraphs of this section:

- (a) The application shall be in writing and shall be addressed to the Secretary of Labor.
- (b) The application shall identify the contract or contracts under which the work in question is to be performed. Permission will be given for deductions only on specific, identified contracts, except upon a showing of exceptional circumstances.
- (c) The application shall state affirmatively that there is compliance with the standards set forth in the provisions of section 3.6. The affirmation shall be accompanied by a full statement of the facts indicating such compliance.
- (d) The application shall include a description of the proposed deduction, the purpose to be served thereby, and the classes of laborers or mechanics from whose wages the proposed deduction would be made.
- (e) The application shall state the name and business of any third person to whom any funds obtained from the proposed deductions are to be transmitted and the affiliation of such person, if any, with the applicant.

Section 3.8 Action by the Secretary of Labor Upon Applications.

The Secretary of Labor shall decide whether or not the requested deduction is permissible under provisions of section 3.6; and shall notify the applicant in writing of his decision.

Section 3.9 Prohibited Payroll Deductions.

Deductions not elsewhere provided for by this part and which are not found to be permissible under Section 3.6 are prohibited.

Section 3.10 Methods of Payment of Wages.

The payment of wages shall be by cash, negotiable instruments payable on demand, or the additional forms of compensation for which deductions are permissible under this part. No other methods of payment shall be recognized on work subject to the Copeland Act.

Section 3.11 Regulations Part of Contract.

All contracts made with respect to the construction, prosecution, completion, or repair of any public building or public work or building or work financed in whole or in part by loans or grants from the United States covered by the regulations in this part shall expressly bind the contractor or subcontractor to comply with such of the regulations in this part as may be applicable. In this regard, see section 5.5(a) of the subtitle.

APPENDIX A
ACKNOWLEDGEMENT OF RECEIPT FORM
DESIGN-BUILD
RFP No. VCR-FY23-031

In acknowledgement of receipt this Request for Bid of the undersigned agrees that they have received a complete copy, beginning with the title page and table of contents and ending in Appendix J.

The acknowledgement of receipt shall be signed and returned to the Procurement Manager no later than close of business on **January 5, 2024**. Only potential Offerors who elect to return this form completed with the indicated intention of submitting a Proposal will receive copies of the all Offeror written questions and the County's responses to those questions as well as RFP Amendments, if any are issued.

FIRM: _____

REPRESENTED BY: _____

TITLE: _____ E-MAIL: _____

PHONE #: _____ FAX #: _____

ADDRESS: _____

CITY / STATE / ZIP CODE: _____

SIGNATURE: _____ DATE: _____

This name and address will be used for all correspondence related to this Request for Bid.

- Firm does intend to respond to this Request for Proposals.
- Firm does not intend to respond to this Request for Proposals.

Mr. Rustin Porter, Purchasing Agent

rustin.porter@co.valencia.nm.us

Physical Address:

444 Luna Avenue

Los Lunas, NM 87031

Mailing Address:

P.O. Box 1119

Los Lunas, NM 87031

Phone: 505-866-2005

Fax: 505-866-2424

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APPENDIX B
CAMPAIGN CONTRIBUTION DISCLOSURE FORM

Pursuant to the Procurement Code, §13-1-28, et seq., NMSA 1978 and NMSA 1978, §13-1-191.1 (2006), as amended by Laws of 2007, Chapter 234, any prospective Contractor seeking to enter a contract with any state agency or local public body for professional services, a design and build project delivery system, or the design and installation of measures the primary purpose of which is to conserve natural resources must file this form with that state agency or local public body. This form must be filed even if the contract qualifies as a small purchase or a sole source contract. The prospective Contractor must disclose whether they, a family member or a representative of the prospective Contractor has made a campaign contribution to an applicable public official of the state or a local public body during the two (2) years prior to the date on which the Contractor submits a Bid or, in the case of a sole source or small purchase contract, the two (2) years prior to the date the Contractor signs the contract, if the aggregate total of contributions given by the prospective Contractor, a family member or a representative of the prospective Contractor to the public official exceeds two hundred and fifty dollars (\$250) over the two (2) year period.

Furthermore, the state agency or local public body may cancel a solicitation or proposed award for a proposed contract pursuant to §13-1-181 NMSA 1978 or a contract that is executed may be ratified or terminated pursuant to §13-1-182 NMSA 1978 of the Procurement Code if: 1) a prospective Contractor, a family member of the prospective Contractor, or a representative of the prospective Contractor gives a campaign contribution or other thing of value to an applicable public official or the applicable public official's employees during the pendency of the procurement process, or 2) a prospective Contractor fails to submit a fully completed disclosure statement pursuant to the law.

The state agency or local public body that procures the services or items of tangible personal property shall indicate on the form the name or names of every applicable public official, if any, for which disclosure is required by a prospective Contractor.

THIS FORM MUST BE INCLUDED IN THE REQUEST FOR PROPOSALS AND MUST BE FILED BY ANY PROSPECTIVE CONTRACTOR WHETHER OR NOT THEY, THEIR FAMILY MEMBER, OR THEIR REPRESENTATIVE HAS MADE ANY CONTRIBUTIONS SUBJECT TO DISCLOSURE.

The following definitions apply:

“Applicable public official” means a person elected to an office or a person appointed to complete a term of an elected office, who has the authority to award or influence the award of the contract for which the prospective Contractor is submitting a competitive sealed Bid or who has the authority to negotiate a sole source or small purchase contract that may be awarded without submission of a sealed competitive Bid.

“Campaign Contribution” means a gift, subscription, loan, advance or deposit of money or other thing of value, including the estimated value of an in-kind contribution, that is made to or received by an applicable public official or any person authorized to raise, collect or expend contributions on that official’s behalf for the purpose of electing the official to statewide or local office. “Campaign Contribution” includes the payment of a debt incurred in an election campaign, but does not include the value of services provided without compensation or unreimbursed travel or other personal expenses of individuals who volunteer a portion or all of their time on behalf of a candidate or political committee, nor does it include the administrative or solicitation expenses of a political committee that are paid by an organization that sponsors the committee.

“Family member” means spouse, father, mother, child, father-in-law, mother-in-law, daughter-in-law, or son-in-law of (a) a prospective Contractor, if the prospective Contractor is a natural person; or (b) an Owner of a prospective Contractor.

“Pendency of the procurement process” means the time period commencing with the public notice of the request for Proposals and ending with the award of the contract or the cancellation of the request for Proposals.

“Prospective Contractor” means a person or business that is subject to the competitive sealed Bid process set forth in the Procurement Code or is not required to submit a competitive sealed Bid because that person or business qualifies for a sole source or a small purchase contract.

“Representative of a prospective Contractor” means an officer or director of a corporation, a member or manager of a limited liability corporation, a partner of a partnership or a trustee of a trust of the prospective Contractor.

“Names(s) of Applicable Public Official(s) if any” For purposes of this requirement, the applicable elected public officials within the County of Valencia are BCC Chair Gerard Saiz; BCC Vice-Chair Jhonathan Aragon; Commissioners Troy Richardson, Morris Sparkman , and Joseph Bizzell; Assessor Celia Dittmaier; Clerk Mike Milam; Probate Judge Wendy Wallace; Sheriff Denise Vigil and Treasurer Ron Saiz.

DISCLOSURE OF CONTRIBUTIONS:

Contributions Made By: _____

Relation to Prospective Contractor: _____

Name of Applicable Public Official: _____

Date(s) Contribution(s) Made: _____

Amount(s) of Contribution(s) Made: _____

Nature of Contribution(s) Made: _____

Purpose of Contribution(s) Made: _____

(Attach extra pages if necessary)

Signature: _____ Date: _____

Title (Position): _____

OR

NO CONTRIBUTIONS IN THE AGGREGATE TOTAL OVER TWO HUNDRED FIFTY DOLLARS (\$250) WERE MADE to an applicable public official by me, a family member, or representative.

Signature: _____ Date: _____

Title (Position): _____

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APPENDIX C**CONTRACT PROVISIONS FOR NON-FEDERAL ENTITY CONTRACTS UNDER FEDERAL AWARDS**

Code of Federal Regulations
Title 2. Grants and Agreements (Refs & Annos)
Subtitle A. Office of Management and Budget Guidance for Grants and Agreements (Refs & Annos)
Chapter II. Office of Management and Budget Guidance (Refs & Annos)
Part 200. Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Refs & Annos)

2 C.F.R. Pt. 200, App. II

APPENDIX II TO PART 200—CONTRACT PROVISIONS FOR NON-FEDERAL ENTITY CONTRACTS
UNDER FEDERAL AWARDS

Effective: November 12, 2020

Currentness

In addition to other provisions required by the Federal agency or non-Federal entity, all contracts made by the non-Federal entity under the Federal award must contain provisions covering the following, as applicable.

- (A) Contracts for more than the simplified acquisition threshold, which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Regulations Council (Councils) as authorized by 41 U.S.C. 1908, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate.
- (B) All contracts in excess of \$10,000 must address termination for cause and for convenience by the non-Federal entity including the manner by which it will be effected and the basis for settlement.
- (C) Equal Employment Opportunity. Except as otherwise provided under 41 CFR Part 60, all contracts that meet the definition of “federally assisted construction contract” in 41 CFR Part 60–1.3 must include the equal opportunity clause provided under 41 CFR 60–1.4(b), in accordance with Executive Order 11246, “Equal Employment Opportunity” (30 FR 12319, 12935, 3 CFR Part, 1964–1965 Comp., p. 339), as amended by Executive Order 11375, “Amending Executive Order 11246 Relating to Equal Employment Opportunity,” and implementing regulations at 41 CFR part 60, “Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor.”
- (D) Davis–Bacon Act, as amended (40 U.S.C. 3141–3148). When required by Federal program legislation, all prime construction contracts in excess of \$2,000 awarded by non-Federal entities must include a provision for compliance with the Davis–Bacon Act (40 U.S.C. 3141–3144 and 3146–3148) as supplemented by Department of Labor regulations (29 CFR Part 5, “Labor Standards Provisions Applicable to Contracts Covering Federally

Financed and Assisted Construction”). In accordance with the statute, contractors must be required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, contractors must be required to pay wages not less than once a week. The non-Federal entity must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency. The contracts must also include a provision for compliance with the Copeland “Anti-Kickback” Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, “Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States”). The Act provides that each contractor or subrecipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.

- (E) Contract Work Hours and Safety Standards Act (40 U.S.C. 3701–3708). Where applicable, all contracts awarded by the non-Federal entity in excess of \$100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.
- (F) Rights to Inventions Made Under a Contract or Agreement. If the Federal award meets the definition of “funding agreement” under 37 CFR § 401.2 (a) and the recipient or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that “funding agreement,” the recipient or subrecipient must comply with the requirements of 37 CFR Part 401, “Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements,” and any implementing regulations issued by the awarding agency.
- (G) Clean Air Act (42 U.S.C. 7401–7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251–1387), as amended—Contracts and subgrants of amounts in excess of \$150,000 must contain a provision that requires the non-Federal award to agree to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act

(42 U.S.C. 7401–7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251–1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

- (H) Debarment and Suspension (Executive Orders 12549 and 12689)—A contract award (see 2 CFR 180.220) must not be made to parties listed on the governmentwide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 1989 Comp., p. 235), “Debarment and Suspension.” SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.
- (I) Byrd Anti–Lobbying Amendment (31 U.S.C. 1352)—Contractors that apply or bid for an award exceeding \$100,000 must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non–Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non–Federal award.

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**APPENDIX D
LETTER OF TRANSMITTAL FORM**

Items #1 to 4 **must** each be responded to. Failure to respond to all four items **will** result in the disqualification of the Proposal.

1. Identity (name) and mailing address of the submitting organization:

2: For the person authorized by the organization to contractually obligate the organization:

Name	
Title	

3. For the person authorized to negotiate the contract on behalf of the organization:

Name	
Title	
E-Mail Address	
Telephone Number	

4. For the person to be contacted for clarifications:

Name	
Title	
E-Mail Address	
Telephone Number	

- On behalf of the submitting organization named in item #1, above, I accept the Conditions Governing the Procurement as required in Section II, Paragraph C.1.
- I concur that submission of our Bid constitutes acceptance of the Evaluation Factors contained in Section V of this RFP.
- I acknowledge receipt of any and all amendments to this RFP.

_____, 2023

Authorized Signature and Date (**must be signed** by the person identified in **item #2** above)

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Appendix E
PHASE II
AIA Document A141 – 2014
Standard Form of Agreement Between Owner and Design-Builder
Included by Reference

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Appendix F
Non-Disclosure Agreement of the Design-Builder Entity
Valencia County Confidentiality Statement

Solicitation Number: VCR-FY23-031

I, the Offeror _____, of

_____ hereby certify that I have provided all required information on this form to the best of my knowledge and agree to the following confidentiality and conflict of interest protocols for the subject project/solicitation. I further certify that I have read and understand the attached Confidentiality and Conflict of Interest Guidelines.

For the purpose of these Statements, "Offeror" means any business entity/ corporation/ organization/ firm/individual including any of its Affiliates (i.e., an entity that controls, is controlled by, or is under common control with Offeror) that submits an offer/proposal in response to this solicitation.

PART A - CONFIDENTIALITY STATEMENT

1. I understand that information related to this project/solicitation and all proposals received shall be held in strict confidence.
2. I will not divulge any information pertaining to this project/solicitation or program, including but not limited to site location or any other related documents.
3. I will cease communicating regarding this project/solicitation, with Offerors associated with this project/solicitation until Notice of Award is posted for this procurement.
4. I will limit all communication about or pertaining to this solicitation to only those individuals who have signed a Confidentiality and Conflict of Interest Statement for this solicitation/project. I will confirm this with this project's Chief Purchasing Officer ("CPO"), identified as: Rustin Porter at rustin.porter@co.valencia.nm.us prior to entering into any such communication.
5. My contact regarding this project, will adhere to the communications protocol set forth in the RFP, which designates a CPO for all Offeror communication.
6. If contacted by a potential or actual Offeror regarding this project, I will refer the Offeror to the CPO.
7. I have read the below provision requiring non-disclosure of the contents of Competitive Sealed Proposals contained in the New Mexico Procurement Code: The contents of any proposal shall not be disclosed so as to be available to competing offerors during the negotiation process. NMSA 1978 §13-1-116 (1984).
8. I will inform the CPO of any concerns regarding inappropriate communication or any suspected breach of confidentiality.

PART B - CONFIDENTIALITY GUIDELINESConfidentiality

For purposes of these guidelines, confidential data or information is to be broadly construed and includes:

1. all trade secrets and proprietary information so designated and submitted by Offerors in their proposals/offers;
2. cost estimates;
3. any and all other data and/or information that discloses the location of the project until the County's acceptance of the assignment of the real property.

Certain documents or sections of the proposal responses may be protected from public view under the provision of the County's Purchasing regulations. Trade secrets or proprietary information must have had IPRA protections invoked by the Offeror in writing identifying specific data or materials to be protected and state the reasons why protection is necessary.

All procurement for goods and services must be conducted in a fair and impartial manner with avoidance of any impropriety or appearance of impropriety. All parties to the procurement process shall conduct business above reproach in every respect. All third-party contractors/consultants participating in this project/solicitation shall conduct their participation above reproach in every respect.

Each Design Build Team Member involved in this project/solicitation must take all reasonable steps to ensure that others do not have unauthorized access to confidential data or information relating to such project/solicitation. Such steps include, but are not limited to, the following:

1. Team members, without exception, should forward to the CPO any and all inquiries or comments regarding any procurement transaction that are received from any party, either internal or external. In addition, team members should explain to the party making such inquiry that the reason the inquiry is being forwarded to the CPO is to ensure that the party receives the most up-to-date and accurate information available regarding the procurement process.
2. The confidential data or any information acquired or accessed in connection with this project/solicitation should not be used except for the preparation and submittal of a response to this Request for Proposals. Furthermore, do not release, disseminate or otherwise disclose such data or information to any other party unless authorized by applicable law or required by court order to do so. If so authorized by applicable law or required by court order, the CPO must be notified and is responsible for such disclosure.
3. Confidential Information shall not be left unattended on conference room tables during meeting breaks unless the meeting room is locked and shall not be left unattended in office chairs, under desks or in any other place unless the room is locked.
4. The confidential data and information, any and all oral discussion or comment relating to the confidential data and information and any information derived therefrom shall be maintained in the strictest confidence and shall not be released, sold, disseminated, transferred or otherwise disclosed by any means to any person, firm, corporation, or third party without the prior written approval of the CPO.
5. The confidential information shall be accessed and used only as necessary to develop and submit a proposal. The confidential data and information shall be used and/or accessed for no other reason and in no other way.
6. When an Offeror has reason to believe that any unauthorized person(s) or third party has obtained or been provided access to or used confidential data or information or any information derived therefrom, such Offeror shall notify the CPO by telephone, email or facsimile transmission within two (2) business hours. In addition, such Offeror will provide any and all documentation or other information requested by the CPO pertaining to such unauthorized access or use of information or data and cooperate fully with the CPO during their investigation of the matter.

BY SIGNING BELOW, I ACKNOWLEDGE THE INFORMATION AND CERTIFICATIONS I HAVE GIVEN IN PART A AND PART B OF THIS STATEMENT, AND MY COMPLIANCE WITH THE CONFIDENTIALITY GUIDELINES IN PART B:

Signature: _____

Agency: _____

If Consultant, provide name of Agency you represent and your role on this team:

E-Mail Address: _____

Date: _____

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Appendix G
Federal Minimum Wage Rate Determination

"General Decision Number: NM20230049 06/09/2023

Superseded General Decision Number: NM20220049

State: New Mexico

Construction Type: Building

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Counties: Torrance and Valencia Counties in New Mexico.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least \$16.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2023.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least \$12.15 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2023.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker

protections under the Executive Orders is available at
<http://www.dol.gov/whd/govcontracts>.

Modification Number	Publication Date
0	01/06/2023
1	01/13/2023
2	03/03/2023
3	03/17/2023
4	03/31/2023
5	06/09/2023

ASBE0076-008 01/01/2023

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR.....	\$ 35.76	11.73

 CARP1505-001 06/01/2018

	Rates	Fringes
CARPENTER (Includes Drywall Finishing/Taping, Drywall Hanging, and Metal Stud Installation (Excludes Form Work)).....	\$ 24.08	10.79

 ELEC0611-022 01/01/2023

	Rates	Fringes
ELECTRICIAN.....	\$ 36.75	12.77

 ELEV0131-002 01/01/2023

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 48.93	37.335+a+b

PAID HOLIDAYS:

- a. New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving, and Christmas Day.
- b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 years; 6% for less than 5 years' service.

 * IRON0495-002 01/01/2023

	Rates	Fringes
IRONWORKER, STRUCTURAL.....	\$ 28.05	18.11

 PLUM0412-014 01/01/2022

Rates	Fringes
-------	---------

PIPEFITTER.....	\$ 36.40	13.90
PLUMBER (Includes HVAC Pipe Installation).....	\$ 36.40	13.90

SFNM0669-001 04/01/2021

	Rates	Fringes
SPRINKLER FITTER (Fire Sprinklers).....	\$ 32.67	23.21

SHEE0049-004 01/01/2023

	Rates	Fringes
Sheet Metal Worker (Including HVAC Duct and Unit Installation).....	\$ 35.44	18.42

* SUNM2016-006 09/26/2018

	Rates	Fringes
CARPENTER (Form Work Only).....	\$ 21.38	9.12
CEMENT MASON/CONCRETE FINISHER...	\$ 18.40	7.45
GLAZIER.....	\$ 20.15	3.48
LABORER: Common or General.....	\$ 15.99 **	4.72
LABORER: Mason Tender - Cement/Concrete.....	\$ 14.72 **	5.61
OPERATOR: Backhoe/Excavator/Trackhoe.....	\$ 27.97	5.16
PAINTER (Brush and Roller).....	\$ 16.60	3.88
PAINTER: Spray.....	\$ 16.51	2.14

WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.

=====
** Workers in this classification may be entitled to a higher
minimum wage under Executive Order 14026 (\$16.20) or 13658
(\$12.15). Please see the Note at the top of the wage
determination for more information.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave
for Federal Contractors applies to all contracts subject to the
Davis-Bacon Act for which the contract is awarded (and any
solicitation was issued) on or after January 1, 2017. If this
contract is covered by the EO, the contractor must provide
employees with 1 hour of paid sick leave for every 30 hours
they work, up to 56 hours of paid sick leave each year.
Employees must be permitted to use paid sick leave for their
own illness, injury or other health-related needs, including
preventive care; to assist a family member (or person who is

like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion

date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.

Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

=====

END OF GENERAL DECISIO"

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Appendix H
State Minimum Wage Rate Determination

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LABOR RELATIONS DIVISION

401 Broadway NE
Albuquerque, NM 87102
Phone: 505-841-4400
Fax: 505-841-4424

226 South Alameda Blvd
Las Cruces, NM 88005
Phone: 575-524-6195
Fax: 575-524-6194

WWW.DWS.STATE.NM.US

Wage Decision Approval Summary

1) Project Title: Valencia County Hospital
Requested Date: 11/29/2023
Approved Date: 12/07/2023
Approved Wage Decision Number: VA-23-3215-B

Wage Decision Expiration Date for Bids: 04/05/2024

2) Physical Location of Jobsite for Project:
Job Site Address: 444 Luna Ave
Job Site City: Los Lunas
Job Site County: Valencia

3) Contracting Agency Name (Department or Bureau): County of Valencia
Contracting Agency Contact's Name: Adelina Benavidez
Contracting Agency Contact's Phone: (505) 866-2475 Ext.

4) Estimated Bid Opening Date: 03/07/2024

5) Estimated total project cost: \$35,000,000.00
a. Are any federal funds involved?: Yes - \$34,000,000.00
b. Does this project involve a building?: Yes - Construction of a 35, 000 SF single story hospital building in Valencia County
c. Is this part of a larger plan for construction on or appurtenant to the property that is subject to this project?: No
d. Are there any other Public Works Wage Decisions related to this project?: No
e. What is the ultimate purpose or functional use of the construction once it is completed?: New hospital

6) Classifications of Construction:

Classification Type and Cost Total	Description
General Building (B) Cost: \$35,000,000.00	Construction of a 35, 000 SF single story hospital building in Valencia County. Work includes: Grubbing and Clearing, Over Excavation and Import of Fill, Storm Water Drainage, Asphalt Pavement, Curb and Gutter, Utility Extensions, Cast-In-Place Concrete, Steel Framing, Steel Decking, Membrane Roofing, Steel Stud Framing, Insulation, Gypsum Wallboard, Aluminum Storefront and Glazing, Exterior Insulation and Finish System, Hollow Metal Doors and Frames, Wood Doors, Insulated Sectional Doors and Operators, Door Hardware, Tile, Floor Finishes, Painting, Plumbing, Heating, Electrical, Concrete Sidewalks, Hospital Equipment, Medical Gases, Kitchen Equipment, Furnishings, Signage and Wayfinding.



PUBLIC WORKS PROJECT REQUIREMENTS

As a participant in a Public Works project valued at more than \$60,000 in the State of New Mexico, the following list addresses many of the responsibilities that are defined by statute or regulation to each project stakeholder.

Contracting Agency

- Ensure that all Contractors wishing to bid on a Public Works project when the project is \$60,000 or more are actively registered with the Public Works and Apprenticeship Application (PWAA) website: <http://www.dws.state.nm.us/pwaa> (Contractor Registration) prior to bidding.
- Please submit Notice of Award (NOA) and Subcontractor List(s) to the PWAA website promptly after the project is awarded.
- Please update the Subcontractor List(s) on the PWAA website whenever changes occur.
- All Sub-Contractors and tiers (excluding professional services) regardless of contract amount must be listed on the Subcontractor List and must adhere to the Public Works Minimum Wage Act.
- Ninety days after project completion please go into the PWAA system and close the project. Only Contracting Agencies are allowed to close the project. Agents or Contractors are not allowed to close projects.

General Contractor

- Provide a complete Subcontractor List and Statements of Intent (SOI) to Pay Prevailing Wages for all Contractors, regardless of amount of work, to the Contracting Agency within 3 (three) days of award.
- Ensure that all Subcontractors wishing to bid on a Public Works project have an active Contractor Registration with the Public Works and Apprenticeship Application (PWAA) website: <http://www.dws.state.nm.us/pwaa> prior to bidding when their bid will exceed \$60,000.
- Submit weekly certified payroll bi-weekly to the Contracting Agency.
- Make certain the Public Works Apprentice and Training Act contributions are paid either to an approved Apprenticeship Program or to the Public Works Apprentice and Training Fund.
- Confirm the Wage Rate poster, provided in PWAA, is displayed at the job site in an easily accessible place.
- Make sure, when a project has been completed, the Affidavits of Wages Paid (AWP) are sent to the Contracting Agency.



STATE OF NEW MEXICO
NEW MEXICO DEPARTMENT OF
WORKFORCE SOLUTIONS
Labor Relations Division
121 Tijeras Ave NE, Suite 3000
Albuquerque, NM 87102
www.dws.state.nm.us

- All Subcontractors and tiers (excluding professional services) regardless of contract amount must be listed on the Subcontractor List and must adhere to the Public Works Minimum Wage Act.

Subcontractor

- Ensure that all Subcontractors wishing to bid on a Public Works project have an active Contractor Registration with the Public Works and Apprenticeship Application (PWAA) website: <http://www.dws.state.nm.us/pwaa> prior to bidding when their bid will exceed \$60,000.
- Submit weekly certified payroll bi-weekly to the General Contractor(s).
- Make certain the Public Works Apprentice and Training Act contributions are paid either to an approved Apprenticeship Program or to the Public Works Apprentice and Training Fund.
- All Subcontractors and tiers (excluding professional services) regardless of contract amount must be listed on the Subcontractor List and must adhere to the Public Works Minimum Wage Act.

Additional Information

Reference material and forms may be found at New Mexico Department of Workforce Solutions Public Works web pages at: <https://www.dws.state.nm.us/Labor-Relations/Labor-Information/Public-Works>.

CONTACT INFORMATION

Contact the Labor Relations Division for any questions relating to Public Works projects by email at public.works@dws.nm.gov or call (505) 841-4400.

TYPE "B" – GENERAL BUILDING

Effective January 1, 2023

Trade Classification	Base Rate	Fringe Rate	Apprenticeship
Asbestos Workers/Heat and Frost insulators	35.56	12.26	0.60
Asbestos Workers/Heat and Frost insulators: Los Alamos County	37.99	12.26	0.60
Boilermaker/blacksmith	35.88	32.28	0.60
Boilermaker/blacksmith: San Juan County	36.83	31.88	0.60
Bricklayer/Block layer/Stonemason	24.97	9.50	0.60
Carpenter/Lather	27.73	12.14	0.60
Carpenter: Los Alamos County	33.18	13.58	0.60
Millwright/pile driver	37.10	28.30	0.60
Cement Mason	23.04	11.30	0.60
Electricians-Outside Classifications: Zone 1			
Ground man	25.43	11.76	0.60
Equipment Operator	36.48	16.09	0.60
Lineman or technician	46.09	18.52	0.60
Cable Splicer	47.22	18.81	0.60
Electricians-Outside Classification: Zone 2			
Ground man	25.43	11.76	0.60
Equipment Operator	36.48	16.09	0.60
Lineman or technician	46.09	18.52	0.60

Cable Splicer	47.22	18.81	0.60
Electricians-Outside Classifications: Los Alamos County			
Ground man	26.15	11.78	0.60
Equipment Operator	37.54	16.13	0.60
Lineman or technician	47.29	18.82	0.60
Cable Splicer	51.93	19.98	0.60
Electricians-Inside Classifications: Zone 1			
Wireman/low voltage technician	36.75	12.40	0.60
Cable Splicer	40.43	12.51	0.60
Electricians-Inside Classification: Zone 2			
Wireman/low voltage technician	40.06	12.50	0.60
Cable Splicer	43.74	12.61	0.60
Electricians-Inside Classification: Zone 3			
Wireman/low voltage technician	42.26	12.57	0.60
Cable Splicer	45.94	12.68	0.60
Electricians-Inside Classification: Zone 4			
Wireman/low voltage technician	46.31	12.69	0.60
Cable Splicer	49.99	12.80	0.60
Electricians-Inside Classification: Dona Ana, Hidalgo, Luna and Otero Counties			
Wireman/low voltage technician	32.07	9.81	0.60
Cable splicer	32.07	9.81	0.60
Electricians-Inside Classification: Los Alamos County			
Wireman/low voltage technician	42.26	14.68	0.60
Cable Splicer	45.94	14.98	0.60
Elevator Constructor	48.93	37.49	0.60

Elevator Constructor Helper	39.14	37.49	0.60
Glazier			
Journeyman/Fabricator	21.25	6.70	0.60
Delivery Driver	12.00	6.70	0.60
Glazier: Los Alamos county	21.25	6.70	0.60
Ironworker	28.05	18.30	0.60
Painter	18.25	8.50	0.60
Painter: Los Alamos county	29.51	10.35	0.60
Paper Hanger	18.25	8.50	0.60
Paper Hanger: Los Alamos county	30.33	10.35	0.60
Drywall Finisher/Taper - Light Commercial & Residential			
Ames tool operator	26.82	8.40	0.60
Hand finisher/machine texture	25.82	8.40	0.60
Drywall Finisher/Taper – Light Commercial & Residential: Los Alamos county	29.51	10.35	0.60
Plasterer	24.34	9.79	0.60
Plumber/Pipefitter	35.11	13.40	0.60
Roofer	26.94	9.36	0.60
Sheet metal worker			
Zone 1	35.44	19.00	0.60
Zone 2 – Industrial	36.44	19.00	0.60
Zone 3 – Los Alamos County	37.44	19.00	0.60
Soft Floor Layer	21.00	9.20	0.60
Soft Floor Layer: Los Alamos county	29.55	10.45	0.60
Sprinkler Fitter	34.18	24.44	0.60
Tile Setter	24.46	8.81	0.60
Tile Setter Helper/Finisher	16.53	8.81	0.60
Laborers			
Group I- Unskilled	19.25	7.93	0.60

Group II – Semi-skilled	19.25	7.93	0.60
Group III- Skilled	20.25	7.93	0.60
Group IV - Specialty	22.50	7.93	0.60
Masonry Laborers			
Group I- Unskilled and Semi-Skilled	19.75	8.09	0.60
Group II- Skilled	21.50	8.09	0.60
Group III- Specialty	22.00	8.09	0.60
Operators			
Group I	23.32	7.67	0.60
Group II	25.48	7.67	0.60
Group III	25.94	7.67	0.60
Group IV	26.38	7.67	0.60
Group V	26.57	7.67	0.60
Group VI	26.78	7.67	0.60
Group VII	26.89	7.67	0.60
Group VIII	29.93	7.67	0.60
Group IX	32.32	7.67	0.60
Group X	35.72	7.67	0.60
Truck Drivers			
Group I-VII	16.65	8.27	0.60
Group VIII	16.71	8.27	0.60
Group IX	18.65	8.27	0.60

NOTE: All contractors are required to pay SUBSISTENCE, ZONE AND INCENTIVE PAY according to the particular trade. Details are located in a PDF attachment at WWW.DWS.STATE.NM.US. Search Labor Relations/Labor Information/Public Works/Prevailing Wage Rates.

For more information about the Subsistence, Zone, and Incentive Pay rates, or to file a wage claim, contact the Labor Relations Division at (505) 841-4400 or visit us online at www.dws.state.nm.us.



2023 SUBSISTENCE, ZONE AND INCENTIVE PAY RATES

All contractors are required to pay subsistence, zone, and incentive pay according to the particular trade

Asbestos workers or heat and frost insulators

- (1) Zone 1 shall consist of the area lying within the city limits of a circle whose radius is 66 miles from the city hall in Albuquerque or the city hall in El Paso - \$0.00 per day.
- (2) Zone 2 shall consist of Los Alamos county - \$40.00 per day if not furnished a company owned vehicle.
- (3) Zone 3 shall consist of the area lying beyond a circle whose radius is over 66 miles from the city hall in Albuquerque or the city hall in El Paso - \$85.00 per day.

Boilermakers/Blacksmiths

- (1) Per diem is calculated from city hall of the dispatch city or the employee's home address, whichever is closer to the job location,
- (2) Per diem is \$55.00 per day for travel between 70 and 120 miles and \$85.00 per day for travel over 120 miles.

Bricklayers

- (1) Between 70 and 120 miles, \$55.00 per day
- (2) 121 or more miles, \$70.00 per day

Cement Masons

- (1) For employees who travel to Santa Fe from Albuquerque or vice versa, \$20.00 per day.
- (2) In all other work performed more than 50 miles from the employer's main office, \$50.00 per day.
- (3) Mutually agreed-upon lodging or transportation paid for by the employer will substitute for subsistence pay.

Drywall Finishers and Tapers

- (1) \$40.00 per day (\$5.00 per hour for eight hours work) for over 60 miles over the most typically traveled route, or other mutually agreed upon suitable lodging or transportation.
- (2) If an employee has worked the full week on four 10-hour days, the employee shall be paid the full week of per diem of \$200.00.
- (3) Special provision for Santa Fe and Albuquerque: Employees who travel between Santa Fe and Albuquerque will be paid \$15.00 per day or other mutually agreed upon lodging or transportation.

Electricians (inside classifications)

- (1) For Albuquerque only:
 - (a) Zone 1 is classified as being within 40 miles from the main post office.
 - (b) Zone 2 shall extend up to 10 miles beyond zone 1. Work performed within zone 2 shall be compensated nine percent above the journeyman rate for zone 1.
 - (c) Zone 3 shall extend up to 20 miles beyond zone 1. Work performed within zone 3 shall be compensated fifteen percent above the journeyman rate for zone 1.
 - (d) Zone 4 shall extend 20 miles or more beyond zone 1. Work performed within zone 4 shall be compensated twenty six percent above the journeyman rate for zone 1.
- (2) For Los Alamos County only: work performed within the county shall be compensated fifteen percent above the zone 1 journeyman rate.
- (3) For all other counties:
 - (a) Zone 1 is:
 - (i) within six miles from the main post office for Raton, Tucumcari, and Farmington.
 - (ii) within eight miles from the main post office for Las Vegas.
 - (iii) within ten miles from the main post office for Santa Fe and Gallup.
 - (iv) within twelve miles from the main post office for Belen, Carrizozo, Clovis, Los Lunas, Portales, Roswell, Ruidoso, Artesia, Carlsbad, Hobbs, and Lovington.
 - (v) within fourteen miles from the main post office for Espanola.
 - (b) Zone 2 shall extend up to 20 miles beyond zone 1. Work performed within zone 2 shall be compensated nine percent above the journeyman rate for zone 1.
 - (c) Zone 3 shall extend up to 30 miles from zone 1. Work performed within zone 3 shall be compensated fifteen percent above the journeyman rate for zone 1.
 - (d) Zone 4 shall extend beyond 30 miles from zone 1. Work performed within zone 4 shall be compensated twenty six percent above the journeyman rate for zone 1.
- (4) When workers are ordered to report to the shop and then to the job and from job to job, and return to the shop, they shall be paid for the time spent traveling and shall be furnished transportation by the Employer. Under these conditions the Zone 1 rate and any applicable overtime will be paid.

Electricians (outside classification)

Zone 2: \$50.00 per diem to be paid for work 30 miles outside of Santa Fe and 60 miles outside of Albuquerque. No per diem in Los Alamos county.

Glaziers

- (1) When out-of-town travel is required, the employer shall pay the employee for suitable lodging with no more than two people per room and \$20.00 per night for food.
- (2) Employees required to use a personal vehicle for travel to a jobsite beyond a 30 mile radius of the main post office in town where the employer's shop is located shall be compensated at the current Internal Revenue Service (IRS) rate for actual mileage incurred beyond the 30 mile radius, plus their regular rate of pay for travel time.

Ironworkers

- (1) Travel more than 50 miles from the interchange of Interstate 40 and Interstate 25 or from the employee's home should be paid at \$9.00 per hour.
- (2) If travel is within Santa Fe county, travel time shall be paid at \$3.00 per hour.

Laborers

- (1) Type A:
 - (a) Work travel between 50 and 85 miles from the employer's primary address should be compensated at \$3.50 per hour.
 - (b) Work travel 86 miles or greater from the employer's primary address should be compensated at \$5.00 per hour.
- (2) Types B and C:
 - (a) Work travel under 50 miles is a "free zone";
 - (b) The municipal limit of the city of Santa Fe is \$30.00 per day;
 - (c) Work travel between 50 and 75 miles from the union hall to include the municipal limits of Estancia, Grants, and Socorro is \$40.00 per day.
 - (d) All work over 75 miles from the union hall is \$50.00 per day.
- (3) Type H – no zone subsistence pay:
- (4) If an employer provides the employee transportation and mutually agreeable, suitable lodging in areas where overnight stays are necessary, subsistence rates do not apply.

Millwrights

- (1) Work travel between 76 and 150 miles should be compensated at \$50.00 per day.
- (2) Work travel greater than 150 miles should be compensated at \$75.00 per day.

Operating Engineers

- (1) Type A operators should be compensated for zone and subsistence as follows:
 - (a) Work travel between 50 and 85 miles from the interchange of Interstate 25 and Interstate 40 in Albuquerque, or from the Farmington City Hall in Farmington, should be compensated at \$2.50 per hour.
 - (b) Work travel 86 miles or more from the interchange of Interstate 25 and Interstate 40 in Albuquerque or from the Farmington City Hall in Farmington, should be compensated at \$4.00 per hour.
- (2) Type B and C operators:
 - (a) Base points for operators are 30 miles and beyond:
 - (i) Bernalillo county courthouse in Albuquerque;
 - (ii) State capital building in Santa Fe;
 - (iii) City hall in Farmington.
 - (b) Zone and subsistence for Albuquerque and Santa Fe are as follows:
 - (i) work travel between 30 and 50 miles from the base point compensated at \$20.00 per day;
 - (ii) work travel between 51 and 100 miles from the base point compensated at \$45.00 per day;
 - (iii) work travel over 100 miles from the base point that involves an overnight stay compensated at \$75.00 per day.
 - (c) Zone and subsistence for Los Alamos county, \$50.00 per day.
 - (d) Zone and subsistence for Farmington is as follows:
 - (i) work travel between 35 and 75 miles from the base point compensated at \$45.00 per day,
 - (ii) work travel over 100 miles from the base point compensated at \$75.00 per day.
 - (e) If an employer provides the employee transportation and mutually agreeable, suitable lodging in areas where overnight stays are necessary, subsistence rates do not apply.
- (3) Type H operators are not eligible for zone and subsistence pay.

Painters

- (1) Zone 1: Base pay for an area within a 30 mile radius from the main post office in the city or town where the employee permanently resides. Albuquerque, Santa Fe, and Belen shall be considered Zone I.
- (2) Zone 2: Work travel between 30 and 75 miles from the main post office in the town where an employee permanently resides shall be compensated at \$1.00 per hour above base pay.
- (3) Zone 3: Work travel 75 miles or more from the main post office in the town where an employee permanently resides shall be compensated at \$2.50 per hour above base pay.



- (4) When the employee is required to stay overnight, the employer should provide and pay for suitable lodging.
- (5) Employer will furnish transportation or gasoline for all work performed beyond the 30 mile radius that encompasses the free cities of Albuquerque, Santa Fe or Belen.

Paper hangers

- (1) Zone 1: Base pay for an area within a 30 mile radius from the main post office in the city or town where the employee permanently resides. Albuquerque, Santa Fe, and Belen shall be considered Zone I.
- (2) Zone 2: Work travel between 30 and 75 miles from the main post office in the town where an employee permanently resides shall be compensated at \$1.00 per hour above base pay.
- (3) Zone 3: Work travel 75 miles or more from the main post office in the town where an employee permanently resides shall be compensated at \$2.50 per hour above base pay.
- (4) When the employee is required to stay overnight, the employer should provide and pay for suitable lodging.
- (5) Employer will furnish transportation or gasoline for all work performed beyond the 30 mile radius that encompasses the free cities of Albuquerque, Santa Fe or Belen.

Plasterers

- (1) Employees who travel from Albuquerque to Santa Fe should be compensated at \$20.00 per day.
- (2) Except for employees who travel from Santa Fe to Albuquerque, work travel 75 miles or more from the employer's office over the most typically traveled route should be compensated at \$5.00 per hour and capped at \$40.00 per day.

Plumbers and pipefitters

- (1) Work travel for 90 or more miles from an employee's primary residence, and involving an overnight stay, should be compensated at \$80.00 per day.
- (2) No zone or subsistence pay is required should the employer elect to cover the room cost.
- (3) Los Alamos county workers receive \$0.80 per hour incentive pay plus base and fringe.

Roofers

Work travel requiring an overnight stay should be compensated at \$35.00 per day for food. Employer should provide and pay for a suitable hotel. When employees are assigned to jobs located 60 or more miles from the employer's place of business, transportation to and from the job site must be provided.

Sheet metal workers

- (1) Work travel 90 miles or more from contractor's home base and employee's home, should be paid at \$80.00 per day subsistence pay plus base and fringe, regardless of county.
- (2) Los Alamos county: \$2.00 per hour incentive pay plus base and fringe.
- (3) Workers living 60 or more miles from a San Juan county job site receive \$3.00 per hour subsistence pay plus base and fringe.

Soft floor layer

- (1) Zone 1: Base pay for an area within a 30 mile radius from the main post office in the city or town where the employee permanently resides. Albuquerque, Santa Fe, and Belen shall be considered Zone I.
- (2) Zone 2: Work travel between 30 and 75 miles from the main post office in the town where an employee permanently resides shall be compensated at \$1.00 per hour above base pay.
- (3) Zone 3: Work travel 75 miles or more from the main post office in the town where an employee permanently resides shall be compensated at \$3.13 per hour above base pay.
- (4) Employer will furnish transportation or gasoline for all work performed beyond the 30 mile radius that encompasses the free cities of Albuquerque, Santa Fe or Belen.
- (5) When the employee is directed to report to a job site and the distance to the job site requires the employee to stay out of town overnight, the employer shall provide housing arrangements for the affected employees.

Sprinkler fitters

- (1) Work travel between 60 and 80 miles from the employee's primary residence should be compensated at \$22.00 per day.
- (2) Work travel between 81 and 100 miles from the employee's primary residence should be compensated at \$32.00 per day.
- (3) Work travel of 101 miles or more from the employee's primary residence should be compensated at \$120.00 per day.
- (4) No zone or subsistence pay shall be paid when the employer provides daily transportation and the employee elects to travel back and forth from home.

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Appendix I
Sample Division 01 Requirements

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SECTION 01 25 00

SUBSTITUTION PROCEDURES

PART 1 GENERAL

1.01 SUBSTITUTION OF MATERIALS AND EQUIPMENT

- A. Substitutions, General: Catalog numbers and specific brands or trade names are used in materials, products, equipment and systems required by the Specifications to establish the standards of quality, utility and appearance required. Alternative products which are of equal quality and of required characteristics for the purpose intended may be proposed for use provided the Design Builder with the following provisions:
1. Substitutions will only be authorized by properly executed Substitution Request.
 2. Substitutions shall be considered when a product becomes unavailable through no fault of Contractor.
- B. Substitution Provisions:
1. Documentation: Substitutions will not be considered if they are indicated or implied on Shop Drawing, product data or sample submittals. All requests for substitution shall be by separate written request from Design Builder. See paragraph below for documentation required in the submission of request for substitution.
 2. Design Revision: Substitutions will not be considered if acceptance will require substantial revision of the Contract Documents or will substantially change the intent of the design, in the opinion of the Owner. The intent of the design shall include functional performance and aesthetic qualities.
 3. Data: It shall be the responsibility of the Contractor to provide adequate data demonstrating the merits of the proposed substitution, including cost data and information regarding changes in related Work.
 4. Determination by Owner: Owner will determine the acceptability of proposed substitutions and will notify the Design Builder in writing of acceptance or rejection. The determination by the Owner regarding functional performance and aesthetic quality shall be final.
 5. Non-Acceptance: If a proposed substitution is not accepted, Design Builder shall immediately provide the specified product.
 6. Substitution Limitation: Only one request for substitution will be considered for each product.
- C. Request for Substitution Procedures:
1. Design Builder shall prepare a request for substitution and submit the request to Owner for review. Acceptance and approval of substitutions shall be by the Owner.
 - a. Present the request for substitution using form provided.

2. Substitution requests shall include complete product data, including Drawings and descriptions of products, fabrication details and installation procedures. Include samples where applicable or requested.
3. Substitution requests shall include appropriate product data for the specified product(s) of the specified manufacturer, suitable for use in comparison of characteristics of products.
 - a. Include a written, point-by-point comparison of characteristics of the proposed substitute product with those of the specified product.
 - b. Include a detailed description, in written or graphic form as appropriate, indicating all necessary changes or modifications needed to other elements of the Work, which will be performed by the Design Builder at no additional expense to the Owner, if the proposed substitution is accepted.
4. Substitution requests shall include a statement indicating the substitution's effect on the Construction Schedule. Indicate the effect of the proposed substitution on overall Contract Time and, as applicable, on completion of portions of the Work for use by Owner.
5. Except as otherwise specified, substitution requests shall include detailed cost data, including a proposal for the net change, if any, in the Contract Sum.
6. Substitution requests shall include signed certification that the Design Builder has reviewed the proposed substitution and has determined that the substitution, in combination with the cost or time savings, represents an equivalent or superior condition in every respect to product requirements and value indicated or specified in the Contract Documents, and that the substitution is suited for and can perform the purpose or application of the specified product indicated or specified in the Contract Documents.
7. Substitution requests shall include a signed waiver by the Design Builder for change in the Contract Time or Contract Sum because of the following:
 - a. Substitution failed to perform adequately.
 - b. Substitution required changes in on other elements of the Work.
 - c. Substitution caused problems in interfacing with other elements of the Work.
 - d. Substitution was determined to be unacceptable by authorities having jurisdiction.
8. A request constitutes a representation that the Design Builder:
 - a. Has investigated proposed product and determined that it meets or exceeds quality level of specified product.
 - b. Will provide same warranty for Substitution as for specified product.
 - c. Will coordinate installation and make changes to other Work which may be required for the Work to be complete with no additional cost to Owner.
9. If, in the opinion of the Owner, the substitution request is incomplete or has insufficient data to enable a full and thorough review of the intended substitution, the substitution may be summarily refused and determined to be unacceptable.

D. Contract Document Revisions:

1. Should a Design Builder proposed substitution or alternative sequence or method of construction require revision of the Contract Drawings or

Specifications, including revisions for the purposes of determining feasibility, scope or cost, or revisions for the purpose of obtaining review and approval by authorities having jurisdiction, Design Builder will make revisions at no cost to the Owner.

2. Design Builder shall pay for the services of its Architects, Subconsultants, Contractors, and Suppliers for researching and reporting on proposed substitutions or alternative sequence and method of construction when such activities are considered additional fees to their respective agreements with the Design Builder.
3. Design Builder shall pay such fees whether or not the proposed substitution or alternative sequence or method of construction is ultimately accepted by Owner.

PART 2 PRODUCTS (NOT APPLICABLE TO THIS SECTION).

PART 3 EXECUTION (NOT APPLICABLE TO THIS SECTION).

SUBSTITUTION REQUEST		
Project:		Substitution Request Number:
Re:		Date:
From:		
To:		
Specification Title:		Description:
Section:	Page:	Article/Paragraph:
Proposed Substitution:		
Manufacturer:	Address:	Phone:
Trade Name:		Model No.:
Installer:	Address:	Phone:
History: <input type="checkbox"/> New product <input type="checkbox"/> 1-4 years old <input type="checkbox"/> 5-10 years old <input type="checkbox"/> More than 10 years old		
Differences between proposed substitution and specified:		
<input type="checkbox"/> Point-by-point comparative data attached — REQUIRED BY OWNER		
Reason for not providing specified item:		
Similar Installation:		
Project:	Architect:	
Address:	Owner:	
	Date Installed:	
Proposed substitution affects other parts of Work: <input type="checkbox"/> No <input type="checkbox"/> Yes		
Explain		
Savings to Owner for accepting substitution: _____ (\$_____)		
Proposed substitution changes Contract Time: <input type="checkbox"/> No <input type="checkbox"/> Yes [Add] [Deduct] _____ days		
Supporting Data Attached: <input type="checkbox"/> Drawings <input type="checkbox"/> Product <input type="checkbox"/> Data <input type="checkbox"/> Samples <input type="checkbox"/> Tests <input type="checkbox"/> Reports		

The Undersigned certifies:	
<ul style="list-style-type: none"> • Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product. • Same warranty will be furnished for proposed substitution as for specified product. • Same maintenance service and source of replacement parts, as applicable, is available. • Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule. • Cost data as stated above is complete and credit will be due to the Owner. Claims for additional costs related to accepted substitution which may subsequently become apparent are to be waived. • Proposed substitution does not affect dimensions and functional clearances. • Payment will be made by the Design Builder for changes to building design, including A/E design, detailing, and construction costs caused by the substitution. • Coordination, installation, and changes in the Work as necessary for accepted substitution will be complete in all respects. 	
Submitted by:	
Signed by:	
Firm:	
Address:	
Telephone:	
Attachments:	
OWNER'S REVIEW AND ACTION <input type="checkbox"/> Substitution approved - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures. <input type="checkbox"/> Substitution approved as noted - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures. <input type="checkbox"/> Substitution rejected - Use specified materials <input type="checkbox"/> Substitution Request received too late - Use specified materials.	
Signed by:	Date:
Additional Comments: <input type="checkbox"/> Contractor <input type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer <input type="checkbox"/> Owner	

END OF SECTION

SECTION 01 26 00

CONTRACT MODIFICATION PROCEDURES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Section includes:
1. Change Procedures.
 2. Effect of Change on Schedule.
 3. Correlation of Contractor Submittals.

1.02 CHANGE PROCEDURES

- A. Change Directive:
1. AIA Form G745.
 2. Owner issues Change Directive which describes changes in the Work and designates methods for determining changes in Contract Sum or Contract Time.
 3. Design Builder proceeds with changes in the Work for subsequent inclusion in a Change Order.
 4. Documentation:
 - a. Document each quotation for change in cost or time with sufficient data to allow evaluation of quotation.
 - b. Maintain detailed records on a time and material basis of work required by the Change Directive.
 - c. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.
- B. Change Orders:
1. AIA Form G701.
 2. Execution: Design Builder will issue Change Orders for signatures of parties as provided in Conditions of the Contract.
 3. Reservation of Rights: An executed change order represents full and final settlement of all claims arising out of a modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

1.03 EFFECT OF CHANGE ON SCHEDULE

- A. With each Change Order, include an updated Design Builder's Construction Schedule that indicates the effect of the change, including but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.

- B. No change order request may include additional time required to perform the work, or additional supervision costs unless the additional work is shown to affect the critical path of the project.

1.04 CORRELATION OF CONTRACTOR SUBMITTALS

- A. Promptly revise Schedule of Values and Application for Payment forms to record each authorized Change Order as separate line item and adjust Contract Sum/Price.
- B. Promptly revise progress schedules to reflect change in Contract Time, revise sub-schedules to adjust times for other items of work affected by the change, and resubmit.
- C. Promptly enter changes in Project Record Documents.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

CHANGE ORDER REQUEST (PROPOSAL)

This Change Order Request (C.O.R.) contains an itemized quotation for changes in the Contract Sum or Contract Time in response to proposed modifications to the Contract

Project:	From:
Date:	Re:
Change Order Request Number	Project Number:

Documents based on Proposal Request No. _____ .

Description of Proposed Change:

Attached supporting information from: Subcontractor Supplier _____ _____

Reason for Change:

Does Proposed Change involve a change in Contract Sum? No Yes [Increase] [Decrease] _____

Does Proposed Change involve a change in Contract Time? No Yes [Increase] [Decrease] _____ days

Attached pages: Proposal Worksheet Summary:

Proposal Worksheet Detail(s):

Signed by:

Date:

Copies: Owner Consultants _____ _____ _____ File

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CHANGE ORDER PROPOSAL WORKSHEET SUMMARY

Project:	From:
Date:	Re:
Change Order Request Number	Project Number:

Enter Worksheet Detail Information below

ADDITIONS

Item	Sheet	Description	Material	Labor	Equipment	Subtotal
1						
2						
3						
4						
5						
6						
7						
Subtotal						

DEDUCTIONS

Item	Sheet	Description	Material	Labor	Equipment	Subtotal
1						
2						
3						
4						
5						
6						
7						
Subtotal						

Subcontractor's Net: _____
Subcontractor's OH&P and Bond: _____
Subcontractor's Total: \$ _____

Contractor's OH&P and Bond: _____
Insurance: _____
Contractor's Subtotal: \$ _____
NM Gross Receipts Tax: _____
WORKSHEET TOTAL \$ _____

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CHANGE ORDER PROPOSAL WORKSHEET DETAIL

Project:	From:
Date:	Re:
Change Order Request Number	Project Number:
Worksheet No	

Complete this Worksheet for each element of Work

ADDITIONS

Item	Description	Qty	Unit Prices		Subtotals		Total
			Materials	Labor	Materials	Labor	
1							
2							
3							
4							
5							
Subtotal (Enter this number on Worksheet Summary)							

DEDUCTIONS

Item	Description	Qty	Unit Prices		Subtotals		Total
			Materials	Labor	Materials	Labor	
1							
2							
3							
4							
5							
Subtotal (Enter this number on Worksheet Summary)							

END OF SECTION

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SECTION 01 29 00

PAYMENT PROCEDURES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Schedule of Values.
- B. Applications for Payment.
- C. Defect Assessment.

1.02 SCHEDULE OF VALUES

- A. Coordination: Coordinate preparation of the Schedule of Values with preparation of Design Builder's Construction Schedule:
 - 1. Correlate line items in the Schedule of Values with other required administrative forms and schedules, including Submittals Schedule and Application for Payment forms with Continuation Sheets.
 - 2. Submit the Schedule of Values to the Owner at earliest possible date but no later than seven (7) days before the date scheduled for submittal of initial Applications for Payment.
- B. Submit printed schedule on AIA Form G703 - Continuation Sheet for G702.
- C. Format: Identify each line item with number and title of major specification Section. Identify site mobilization, bonds, and insurance.
- D. Include in each line item, amount of Allowances specified.
- E. Include in each line item, amount of Alternates specified.
- F. Include separately from each line item, direct proportional amount of Close-Out.
- G. Revise schedule to list approved Change Orders with each Application for Payment.

1.03 APPLICATIONS FOR PAYMENT

- A. Each Application for Payment shall be consistent with previous applications and payments as certified by the Design Builder and paid for by Owner.
 - 1. Initial Application for Payment, Application for Payment at time of Substantial Completion, and final Application for Payment involve additional requirements.

- B. Submit signed and notarized copies of each application on AIA Form G742 - Application and Certificate for Payment for a Design Build Project and AIA G703 - Continuation Sheet for G742.
 - 1. Include waivers of lien and similar attachments if required.
- C. Content and Format:
 - 1. Utilize Schedule of Values for listing items in Application for Payment.
 - 2. Notarize and execute by a person authorized to sign legal documents on behalf of the Design Builder.
 - 3. Owner will return incomplete applications without action.
- D. Submit updated construction schedule with each Application for Payment.
- E. Payment Period: Submit at intervals stipulated in the Agreement.
- F. Submit with transmittal letter as specified for Submittals in Section 01 33 00 – Submittal Procedures.
- G. Substantiating Data: When Owner requires substantiating information, submit data justifying dollar amounts in question. Include the following with Application for Payment:
 - 1. Current construction photographs.
 - 2. Record documents for review by Owner which will be returned to the Design Builder.
 - 3. Affidavits attesting to off-site stored products.
 - 4. Construction progress schedules, revised and current.
- H. Include amounts of Change Orders and Change Directives issued before last day of construction period covered by application.
- I. Initial Application for Payment: Administrative actions and submittals that must precede or coincide with submittal of first Application for Payment include the following:
 - 1. List of subcontractors.
 - 2. Schedule of Values.
 - 3. Design Builder's Construction Schedule (preliminary if not final).
 - 4. Submittals Schedule (preliminary if not final).
 - 5. List of Design Builder's staff assignments.
 - 6. Certificates of Insurance and insurance policies.
 - 7. Performance and Payment Bonds.
- J. Application for Payment at Substantial Completion:
 - 1. Submit an Application for Payment showing 100 percent completion for portion of the Work claimed as substantially complete.
 - 2. Include documentation supporting claim that the Work is substantially complete and a statement showing an accounting of changes to the Contract Sum.
 - 3. Reflect Certificates of Partial Substantial Completion issued in Application for Payment.

- K. Final Payment Application:
1. Submit final Application for Payment with releases and remainder of supporting documentation , including, but not limited, to the following:
 - a. Proof that taxes, fees, and similar obligations were paid.
 - b. Updated final statement, accounting for final changes to the Contract Sum.
 - c. Final waivers from every entity involved with performance of the Work who is lawfully entitled to a lien. Evidence that claims have been settled.
 - d. AIA Document G706, “Contractor's Affidavit of Payment of Debts and Claims”, 2 copies.
 - e. AIA Document G706A, “Contractor's Affidavit of Release of Liens”, two copies.
 - f. AIA Document G707, “Consent of Surety to Final Payment”, two copies
 2. Refer to Section 01 77 00 Closeout Procedures, for final completion requirements.

1.04 DEFECT ASSESSMENT

- A. Replace the Work, or portions of the Work, not conforming to specified requirements.
- B. If, in the opinion of the Owner it is not practical to remove and replace the Work, the Owner will direct appropriate remedy or adjust payment.
- C. At the discretion of the Owner:
 1. The defective Work may remain, but Unit Sum/Unit Price will be adjusted to new Unit Sum/Unit Price or,
 2. Defective Work will be partially repaired to instructions of the Owner and unit sum/price will be adjusted to new Unit Sum/Unit Price.
- D. Authority of Owner to assess defects and identify payment adjustments is final.
- E. Non-Payment For Rejected Products: Payment will not be made for rejected products for any of the following:
 1. Products wasted or disposed of in a manner that is not acceptable.
 2. Products determined as unacceptable before or after placement.
 3. Loading, hauling, and disposing of rejected products.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

SECTION 01 31 00

PROJECT MANAGEMENT AND COORDINATION

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Project Coordination.
- B. Pre-Construction Meeting.
- C. Progress Meetings.
- D. Pre-Installation Meetings.

1.02 PROJECT COORDINATION

- A. Coordinate scheduling, submittals, and Work of various sections of Project Manual to ensure efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later where indicated on the Drawings.
- B. Verify utility requirements and characteristics of operating equipment are compatible with building utilities. Coordinate work of various sections having interdependent responsibilities for installing, connecting to, and placing in service, operating equipment.
- C. Coordinate space requirements, supports, and installation of mechanical and electrical Work which are indicated diagrammatically on Drawings. Follow routing shown for pipes, ducts, and conduit, as closely as practicable; place runs parallel with lines of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.
- D. In finished areas except as otherwise indicated, conceal pipes, ducts, and wiring within construction. Consider finish elements when locating fixtures and outlets to minimize disruption to finish elements.
- E. Coordinate completion and clean-up of Work of separate sections in preparation for Substantial Completion and for portions of Work designated for Owner's partial and full occupancy.
- F. After Owner occupancy of premises, coordinate access to site for correction of defective Work and Work not in accordance with Contract Documents, to minimize disruption of Owner's activities.

1.03 PRECONSTRUCTION MEETING

- A. Design Builder will schedule and preside at the Preconstruction Meeting after Notice of Award.
- B. Attendance Required: Owner, Design Builder, Design Builder's Architect, Design Builder's Consultants, Contractor, and major Subcontractors.
- C. Agenda:
 - 1. Execution of Owner-Design Builder Agreement.
 - 2. Submission of executed bonds and insurance certificates.
 - 3. Distribution of Contract Documents.
 - 4. Submission of Schedule of Values and Submittals Schedule.
 - 5. Designation of personnel representing parties in Contract.
 - 6. Procedures and processing of submittals, substitutions, applications for payments, Change Directives, Change Orders, and Contract Close-Out procedures.
 - 7. Scheduling.
 - 8. Testing, Inspecting and Laboratory Services.
 - 9. Use of premises by Owner and Design Builder.
 - 10. Owner's requirements and partial occupancy.
 - 11. Construction facilities and controls.
 - 12. Temporary utilities.
 - 13. Security and housekeeping procedures.
 - 14. Procedures for maintaining Record Documents.
- D. Meeting minutes shall be distributed by the Design Builder within 1 week after meeting to all participants.

1.04 PROGRESS MEETINGS

- A. Schedule and administer meetings throughout progress of the Work at a minimum of twice monthly.
- B. Design Builder shall make arrangements for meetings, prepare agenda with copies for participants, and preside at meetings.
- C. Attendance Required: Owner, Design Builder's Superintendent, major Subcontractors and Suppliers, Design Builder's A/E, and others as appropriate to agenda topics for each meeting.
- D. Agenda:
 - 1. Review minutes of previous meetings.
 - 2. Review of Work progress.
 - 3. Field observations, problems, and decisions.
 - 4. Identification of problems and Requests for information impeding planned progress.
 - 5. Review of submittals schedule and status of submittals.

6. Review of off-site fabrication and delivery schedules.
 7. Maintenance of progress schedule.
 8. Corrective measures to regain projected schedules.
 9. Planned progress during succeeding work period.
 10. Coordination of projected progress.
 11. Maintenance of quality and work standards.
 12. Effect of proposed changes on progress schedule and coordination.
 13. Other business relating to Work.
- E. Record minutes and distribute copies within 1 week after meeting to participants, with copies to A/E, Owner, and those affected by decisions made.

1.05 PRE-INSTALLATION MEETINGS

- A. Coordination meeting required for complex items requiring coordination and understanding among several participants.
1. Hold meetings when required in individual specification sections or the Design Builder deems necessary. Meetings shall focus on specific concerns and do not relieve the Design Builder of the responsibility to coordinate the Work when a pre-installation meeting is not required by a Specification Section.
 2. Hold meetings in which all trades responsible for the various assemblies of a component of the Work before the work begins, to discuss how each aspect is to be coordinated with other adjacent construction so that the responsibilities for installation of various components and progression of the work is clearly understood.
 3. Convene pre-installation meetings at Project site prior to commencing work of specific section.
- B. Require attendance of parties directly affecting or affected by Work of specific section.
- C. Notify the Owner in advance of meeting date.
- D. Prepare Agenda and Preside at Meeting:
1. Review conditions of installation, preparation and installation procedures.
 2. Review coordination with related work.
- E. Record minutes and distribute copies within 1 week after meeting to participants, with copies to the Owner, and those affected by decisions made.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

SECTION 01 32 00

CONSTRUCTION PROGRESS DOCUMENTATION

PART 1 GENERAL

1.01 SUMMARY

- A. This Section includes administrative and procedural requirements for documenting the progress of construction during performance of the Work, including the following:
 - 1. Construction Progress Schedule.
 - 2. Submittals Schedule.
 - 3. Construction Progress Reporting.
- B. Design Builder's Progress Schedule must show Critical Path in order for Submittal review schedule to be established and in order to claim time extension for additional work.
- C. Reference: The Use of CPM in Construction - A Manual for General Contractors and the Construction Industry, Washington, D.C., the Associated General Contractors of America (AGC).

1.02 CONSTRUCTION PROGRESS SCHEDULE

- A. Submit a detailed CPM schedule using specialized software, Primavera Project Planner (P3), Suretrak, or similar which shows the interrelationships and interdependencies of the activities comprising the Project. Tabulate each critical path activity using calendar dates, and identify for each activity:
 - 1. Activity description.
 - 2. Estimated duration of activity, in maximum day intervals.
 - 3. Earliest start date.
 - 4. Earliest finish date.
 - 5. Actual start date.
 - 6. Actual finish date.
 - 7. Latest start date.
 - 8. Latest finish date.
 - 9. Total and free float.
- B. Prepare Three-Week Progress Schedules in bar graph format that show the work performed in the previous week and the work over the next two weeks. Each bar on the schedule should include the related activity identification from the Project's baseline CPM schedule.

1.03 DESIGN BUILDER'S PROGRESS SCHEDULE

- A. Procedures:
1. Submit for review by Owner a copy of the preliminary Progress Schedule within 20 days of date of Agreement between Owner and Design Builder but no later than submission of first payment application.
 2. Revise to address review comments and resubmit.
 3. Update Progress Schedule and submit three copies with each Application for Payment.
 - a. Identify progress of each activity to date of submittal and projected completion date.
 - b. Show activities modified since last submittal and other identifiable changes.
 - c. Provide narrative report as needed to define problem areas, anticipated delays, and impact on Schedule. Report corrective action taken or proposed and its effect.
- B. Use: The Design Builder shall endeavor to manage the work in accordance with the scheduling indicated by the first approved Progress Schedule. The intent is to promote good job management, not rigidly bind the Design Builder to a planned procedure. For this reason, finish activities such as painting or laying of carpet must not be scheduled concurrently with finish plastering or door installation. The Contractor shall use special care to coordinate efforts of various subcontractors, especially mechanical and electrical, to assure proper completion of their work ahead of general finish operations.
- C. Coordinate Design Builder's Progress Schedule with the Schedule of Values, Submittals Schedule, payment requests, and other required schedules and reports.
- D. No contract work shall be done without an Owner approved progress schedule. The items in the activities for the denoted critical path will determine the controlling operations of the work.
- E. During the life of the project, the Design Builder shall review the progress schedule with the Owner at the regularly scheduled Progress Meetings unless otherwise specified. The Design Builder shall submit a revised progress schedule within 5 working days of the review meeting if the Design Builder is behind schedule or if the schedule has been modified. Revised progress schedules must be submitted to and approved by the Owner.
- F. If the Design Builder deviates from the currently approved progress schedule by not following the logical sequence of the critical path, payment will be withheld for the pay items for the affected activities until the Design Builder submits a revised progress schedule and this schedule is approved by the Owner.
- G. Reporting: Each month with the Request of Payment, submit a copy of the current Progress Schedule marked to show actual percentage of completion for each category of work, as well as the aggregate percentage of completion.
- H. Behind Schedule Progress: If the actual progress curve at any time falls more than 10% behind the proposed curve, the Design Builder shall promptly take the steps necessary to

get the work back on schedule. It is emphasized that the purpose of this scheduling is to assure orderly management of the project and the pushing of finish activities into areas where rough activities are not completed shall not be tolerated. Neither shall last minute rush scheduling be permitted to enable the Design Builder to finish on time if it involves poor construction procedures.

1.04 SUBMITTALS SCHEDULE

- A. The Design Builder shall prepare and keep current, for the Owner's review, a schedule of submittals which is coordinated with the Design Builder's construction schedule and allows the Owner reasonable time to review submittals.
- B. Submit three copies of schedule arranged in chronological order by dates required to maintain progress schedule. List the following information in a tabular format and include time required for review, resubmittal, ordering, manufacturing, fabrication, and delivery when establishing dates:
 - 1. Scheduled date for first submittal.
 - 2. Specification Section number and title.
 - 3. Name of subcontractor.
 - 4. Description of the Work covered.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

SECTION 01 33 00

SUBMITTAL PROCEDURES (OWNER'S REVIEW)

PART 1 GENERAL

1.01 SUMMARY

- A. This Section includes administrative and procedural requirements for submitting Construction Submittals to the Owner for review.
- B. Related Sections requiring submittals:
 - 1. Section 01 25 00 – Substitution Procedures.
 - 2. Section 01 29 00 – Payment Procedures.
 - 3. Section 01 32 00 – Construction Progress Documentation.
 - 4. Section 01 43 00 – Quality Assurance.
 - 5. Section 01 45 00 – Quality Control.
 - 6. Section 01 70 00 – Execution Requirements.
 - 7. Section 01 77 00 – Closeout Procedures.
 - 8. Section 01 78 00 – Closeout Submittals.

1.02 SUBMITTAL TYPES NOT INCLUDED IN THIS SECTION

- A. Preconstruction Submittals:
 - 1. Certificates of insurance.
 - 2. Payment and performance bonds.
 - 3. Proposed subcontractor and product lists.
 - 4. Preliminary construction progress schedule.
 - 5. Proposed use of the site and site logistics, including signage.
- B. Closeout Submittals:
 - 1. Written notices of substantial and final completion.
 - 2. Final application for payment.
 - 3. Record documents: Record Drawings and Specifications, Addenda, Change Orders, Field Orders.
 - 4. O&M data.
 - 5. Spare parts and maintenance materials.
 - 6. Certificates of payment.
 - 7. Release of liens and waiver of debts and claims.
 - 8. Consent of surety to final payment.
 - 9. Executed Warranties.
 - 10. Keying.
 - 11. Materials, Extra Stock and Tools.

1.03 CONSTRUCTION SUBMITTALS

- A. Work-related Action and Informational submittals of this section are categorized as follows:
 - 1. Shop Drawings include specially-prepared technical data for this project, including Drawings, diagrams, performance curves, data sheets, schedules,

templates, patterns, reports, calculations, instructions, measurements and similar information not in standard printed form for general application to a range of similar projects.

2. Product data include standard printed information on materials, products and systems; not specially-prepared for this project, other than the designation of selections from among available choices printed therein.
 3. Samples include both fabricated and unfabricated physical examples of materials, products and units of work; both as complete units and as smaller portions of units of work; either from limited visual inspection or (where indicated) for more detailed testing and analysis.
 4. Mock-ups are a special form of samples, which are too large or otherwise inconvenient for handling in specified manner for transmittal of sample submittals.
 5. Design Data Design calculations, mix designs, analyses or other data pertaining to a part of work.
 6. Certificates and Letters of Certification:
 - a. Statements printed on the manufacturer's letterhead and signed by responsible officials of manufacturer of product, system or material attesting that product, system or material meets specification requirements. Must be dated after award of project contract and clearly name the project.
 - b. Document required of Design Builder, or of a manufacturer, supplier, installer or Subcontractor through the Design Builder, the purpose of which is to further quality of orderly progression of a portion of the work by documenting procedures, acceptability of methods or personnel qualifications.
 7. Sample Warranties.
 8. Manufacturer's Installation Instructions include preprinted material describing installation of a product, system or material, including special notices and concerning impedances, hazards and safety precautions.
- B. QA/ QC and Informational Submittals are categorized as follows and may be delivered in electronic format if desired.
1. Test reports.
 2. Manufacturer's field reports:
 - a. Documentation of the testing and verification actions taken by manufacturer's representative at the job site, in the vicinity of the job site, or on a sample taken from the job site, on a portion of the work, during or after installation, to confirm compliance with manufacturer's standards or instructions.
 - b. The documentation must be signed by an authorized official of a testing laboratory or agency and must state the test results; and indicate whether the material, product, or system has passed or failed the test.
 3. Construction photographs.
 4. Draft Applications for Payment.
 5. Schedule of values.
 6. Construction progress schedules.
- C. Individual submittal requirements are specified in applicable sections for each unit of work.

1.04 SUBMITTAL GENERAL REQUIREMENTS

- A. Submittals Schedule: Comply with requirements of Division 1 Section “Progress Schedule” for list of submittals and time requirements for scheduled performance of related construction activities.
- B. Coordination and Sequencing: Coordinate preparation and processing of submittals with performance of the work so that work will not be delayed by submittals. Coordinate and sequence different categories of submittals for same work, and for interfacing units of work, so that one will not be delayed for coordination of Owner’s review with another.
- C. Processing Time: Allow enough time for submittal review including time for resubmittals. Time for review shall commence on Owner’s receipt of submittal.
- D. Submittal Log: The Contractor shall generate and maintain a submittal log which shall include:
 - 1. Every section requiring submittals.
 - 2. Category of submittal required for each section.
 - 3. Status of each category.

1.05 PREPARATION OF SUBMITTALS

- A. Shop Drawings:
 - 1. Provide newly prepared information, on reproducible sheets, with graphic information at accurate scale (except as otherwise indicated), with name of preparer indicated (firm name).
 - 2. Show dimensions and note which are based on field measurement.
 - 3. Identify materials and products in the work shown.
 - 4. Indicate compliance with standards, and special coordination requirements.
 - 5. Do not allow Shop Drawing copies without appropriate final “Action” markings by Design Builder’s A/E to be used in connection with the work.
- B. Product Data:
 - 1. Collect required data into one submittal for each unit of work or system; and mark each copy to show which choices and options are applicable to project.
 - 2. Include manufacturer’s standard printed recommendations for application and use, compliance with standards, application of labels and seals, notation of field measurements which have been checked, and special coordination requirements.
 - 3. Maintain one set of product data (for each submittal) at project site, available for reference by Design Builder’s A/E, Owner, and others.
 - 4. Installer’s Copy: Do not proceed with installation of materials, products or systems until final copy of applicable product data is in possession of Installer.
- C. Samples:
 - 1. Provide samples for Design Builder’s A/E and Owner’s use. Submit samples where required by a specification section, for selection or review and confirmation of color, pattern, texture, and “kind”. Samples requested for color boards will not be returned to the Design Builder.
 - 2. Provide units identical with final condition of proposed materials or products for the work. Include “range” samples (not less than three units) where

unavoidable variations must be expected and describe or identify variations between units of each set.

3. Provide full set of optional samples where Design Builder's A/E and Owner's selection is required. Include information with each sample to show generic description, source or product name and manufacturer, limitations, and compliance with standards.

- D. Mock-Ups: Mock-ups and similar samples specified in individual work sections are recognized as a special type of sample. Comply with requirements for "samples" to greatest extent possible, and process transmittal forms to provide a record of activity.

1.06 DESIGN BUILDER'S REVIEW

- A. Review each submittal and check for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Design Builder's A/E where required to receive "Action" marking before distribution to the Owner. Design Builder shall not submit to the Owner any submittal that has not been approved by the Design Builder's A/E.
- B. At time of submission to the Owner, note in writing, highlight, circle or otherwise identify any deviations in submittal from Contract Documents. The Design Builder must submit in writing, any request for modification to the plans and specifications.
- C. In any event, the responsibility for proposing changes to the plans and specifications by means of Shop Drawings or submittals, and receiving approval for such changes, resides with the Design Builder. No additional costs for replacement of unapproved modifications with the original specified materials will be paid to the Design Builder.
- D. Do not combine items from different specification sections in submittal, unless called for in specifications.
- E. Execute and attach to each submittal, "DESIGN BUILDER SUBMITTAL FORM", to identify project, date, Contractor, Subcontractor, submittal name and number.
- F. General Distribution: Provide additional distribution of submittals to subcontractors, suppliers, fabricators, installers, governing authorities and others as necessary for proper performance of the work. Record distributions on transmittal forms.
- G. Begin no fabrication or work that requires submittals until return of submittals with Design Builder's A/E, and Owner's (if required) final review.

1.07 OWNER'S REVIEW

- A. Prior to any submission of any Submittal to the Owner, the Design Builder shall submit to the Owner a copy of the Submittal Schedule to allow the Owner the opportunity to select those Submittals the Owner would like the opportunity to review. The Owner will not be obligated to review every technical submittal required by the specifications for the Work.
- B. Owner will not review submittals that do not bear Design Builder's and the Design Builder's A/E approval stamps and will return them without action.

- C. Owner will review submittals and where possible return within 2 weeks of receipt.
- D. Submittals requiring a color selection will be held by the Design Builder until all Color samples and charts for the project have been received.
 - 1. At that time, Color Boards will be prepared by the Design Builder and submitted to the Owner for approval.
 - 2. After final selections have been made by the Owner, those submittals will be processed by the Design Builder.
- E. Owner will affix signature and indicate requirements for resubmittal if necessary.
- F. If changes are necessary to submittals, the Design Builder shall make such revisions and resubmit for Owner review. No item of work requiring a submittal change is to be accomplished until the changed submittals are approved.
- G. Design Builder shall make corrections required by the Owner. If the Design Builder considers any correction or notation on the returned submittals to constitute a change to the Contract Drawings or Specifications; notice as required under the clause entitled, "Changes," is to be given to the Owner.
- H. Owner review does not constitute acceptance or responsibility for accuracy or dimensions, nor shall it relieve the Design Builder from meeting any requirements of the Contract Documents, nor shall it constitute approval for any modification from the Contract Documents unless such modifications are specifically stated as such on the submittal and specifically allowed by the Design Builder's A/E and the Owner.
- I. After submittals have been reviewed by the Owner, no resubmittal for the purpose of substituting materials or equipment will be considered unless accompanied by an explanation of why a substitution is necessary.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

SECTION 01 43 00

QUALITY ASSURANCE

PART 1 GENERAL

1.01 SUMMARY

- A. Provisions for quality assurance apply to workmanship and craftsmanship applied to work executed in the performance of the Contract.
 - 1. Perform work with suitable qualified personnel to produce work of specified quality.
 - 2. Refer to applicable Standards and Codes.
 - 3. Refer to Workmanship requirements of trade associations.
 - 4. Test materials in accordance with applicable standards.
 - 5. Provide field samples and mock-ups to establish acceptable level of quality and a basis for judging work.
 - 6. Follow inspection requirements.

- B. Related Work Described Elsewhere: Provisions of trade associations, manufacturer's printed instructions, recommendations, methods, and criteria for application and installation of systems and assemblies, various technical sections of these specifications, the Drawings, and References Section.
 - 1. Provisions of work furnished under this Contract and installed under this Contract.
 - 2. Provisions of work installed under this Contract furnished by others.

1.02 QUALIFICATIONS

- A. Project Superintendent:
 - 1. The superintendence of the General Contractor for the total overall Work shall be administered by one qualified person who is thoroughly trained and experienced in the duties of a Project Superintendent.
 - 2. Project Superintendent shall have a minimum of 10 years of construction experience, with a minimum of 5 years being in commercial construction.
 - 3. Project Superintendent shall demonstrate successful completion of a minimum of 5 projects of similar scope and budget through a resume and letters of recommendation.
 - 4. The Project Superintendent shall exercise general supervision over the Work, have the decision-making authority of the General Contractor, and be familiar with the specified requirements and methods to be used in the scheduling, supervision, performance, and execution of the Work.
 - 5. Project Superintendent's qualifications are subject to review and approval by the Owner, and shall not be reassigned until final acceptance of the Work, unless permitted in writing by the Owner.

- B. Subcontractors: The superintendence of trades involved in work of this project shall be administered, supervised, and directed by at least one qualified journeyman

foreman who is thoroughly trained and skilled in the arts generic to his trade and such qualifications may be subject to review and approval by the Owner.

- C. Workmen: Workmen engaged in the performance of work comprising a part of the total Work of this Contract shall be adequate in number, thoroughly trained and experienced in the installation of the specified and selected products and who are completely familiar with the requirements of their respective work and this Work.
- D. Apprentice: Apprentice personnel shall, in the performance of their respective Work, be supervised and directed in their duties under the competent supervision and direction of experienced journeymen experienced and skilled in their trade.
- E. Manufacturers: Products used in the work of this project shall be produced by recognized manufacturers regularly engaged in the manufacturing of such and similar products with a history of successful production of products specified in the various sections of the specifications.
- F. Fabricators, Suppliers, and Personnel: Fabricators, erectors, suppliers, installers, and applicators shall have not less than five years continuous experience in the execution of their respective duties and their qualifications may be subject for review and approval by the Owner.
- G. Licensed Applicators: Applicators of specific systems, licensed by a manufacturer or company of such products, shall be qualified in every respect required by the manufacturer or company to the extent permitting the issuance of all required guarantees, warranties, and certificates of compliance to the approval of the Owner.

1.03 SUBMITTALS

- A. Within ten (10) days following the execution of the Contract, submit the personal work history of the Project Superintendent proposed to be assigned to the project.
- B. Submittal may be in the form of a letter or standard employment “Job Application” covering the person’s last five (5) years work history and contact source, names, and telephone numbers for use in verification of qualifications and recommendations.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.01 GENERAL

- A. General: Prior to any work being performed in the execution of the Contract, personnel who supervise, or otherwise direct the scope of their respective work, shall become thoroughly familiar with surface conditions affecting their work, the interface requirements of all other trades whose work affects their work, and become completely knowledgeable with the specified materials and methods needed for the proper coordination and execution of the work.

END OF SECTION

SECTION 01 45 00

QUALITY CONTROL

PART 1 GENERAL

1.01 WORK INCLUDED

- A. Quality Control and Control of Installation.
- B. Tolerances.
- C. Testing and Laboratory Services:
 - 1. Provisions of cooperation with the selected testing laboratory and all others responsible for testing and inspection of the Work.
 - 2. Requirements for testing may be described in various other sections of the Specifications.
 - 3. Where no testing requirements are described, but the Owner decides that testing is required, the Owner may direct that such testing be performed under current standards for testing. Payment for such testing will be made as described in this section.
 - 4. Design Builder shall select a testing laboratory subject to the approval of the Owner.
- D. Special Inspection Services: In addition to the inspections provided by CID, the New Mexico Building Code mandates that the Owner or the Engineer or Architect acting on behalf of the owner employ one or more special inspectors who shall provide inspections during construction on elements that are critical to the safety of the structure. It is important to note that these special inspectors are not on the project in lieu of the regular CID building inspector, but rather they are on the project in addition to the regular CID building inspector.
 - 1. Where the New Mexico Building Code mandates that the Owner employ Special Inspectors, Special Inspection Agency shall be paid by the Design Builder.
 - 2. The Special Inspection Agency shall be an agency approved by the Owner as being qualified by knowledge and experience to perform the Special Inspection for the category of work being constructed.
 - 3. More than one Special Inspector may be required to provide the varied knowledge and experience necessary to adequately inspect all of the categories of work requiring Special Inspection.
 - 4. Requirements for inspections may be described in various sections of the specifications.
- E. Manufacturers' Field Services: Requirements for manufacturers' field services may be described in various other sections of these specifications.

1.02 QUALITY CONTROL AND CONTROL OF INSTALLATION

- A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.
- B. Comply with manufacturers' instructions, including each step in sequence.
- C. When manufacturers' instructions conflict with Contract Documents, request clarification from Design Builder's A/E before proceeding.
- D. Comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- E. Perform Work by persons qualified to produce required and specified quality.
- F. Verify field measurements are as indicated on Shop Drawings or as instructed by manufacturer.
- G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, or disfigurement.

1.03 TOLERANCES

- A. Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate.
- B. Comply with manufacturers' tolerances. When manufacturers' tolerances conflict with Contract Documents, request clarification from Design Builder's A/E before proceeding.
- C. Adjust products to appropriate dimensions; position before securing products in place.

1.04 TESTING AND INSPECTION SERVICES

- A. Codes and Standards:
 - 1. Testing, when required, will be in accordance with pertinent codes and regulations and with selected standards of the American Society for Testing and Materials.
 - 2. Inspections will be conducted at intervals required by current building codes and regulations and include:
 - a. Regulatory Inspections.
 - b. Special Inspections:
 - c. Seismic Inspections.
 - d. Structural Observations.
- B. Qualifications of testing agency or laboratory: The testing agency or laboratory will be qualified to the Owner's approval in accordance with ASTM E329.

C. Agency Responsibilities:

1. Cooperate with Design Builder's A/E and the Design Builder in performance of duties.
2. Provide qualified personnel to perform required tests and inspections.
3. Notify Design Builder's A/E and the Design Builder promptly of irregularities or deficiencies observed in the Work during performance of its services.
4. Interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from requirements.
5. Submit a certified written report of each test, inspection, and similar quality-control service through Design Builder.
6. Do not release, revoke, alter, or increase requirements of the Contract Documents or approve or accept any portion of the Work.
7. Do not perform any duties of the Design Builder.

D. Agency Reports:

1. Prepare and submit certified written reports that include the following:
 - a. Date of issue.
 - b. Project title and number.
 - c. Name, address, and telephone number of testing agency.
 - d. Dates and locations of samples and tests or inspections.
 - e. Names of individuals making tests and inspections.
 - f. Description of the Work and test and inspection method.
 - g. Identification of product and Specification Section.
 - h. Complete test or inspection data.
 - i. Test and inspection results and an interpretation of test results.
 - j. Ambient conditions at time of sample taking and testing and inspecting.
 - k. Name and signature of laboratory inspector.
 - l. Recommendations on retesting and reinspecting.
2. Promptly process and distribute required copies of reports and related instructions to ensure necessary retesting and replacement of materials with the least possible delay in progress of the Work.

E. Special Inspection Reports:

1. Provide Special Inspection Reports listing all construction special inspections or reviews of testing performed during that month, noting all uncorrected deficiencies, and describing the corrections made both to these deficiencies and to previously reported deficiencies.
2. Each report shall be signed by the special inspector who performed the special inspection or reviewed the testing, regardless of whether they reported any deficiencies.
3. Each report shall be signed by the Design Builder and submitted to the Architect / Engineer of Record, and the Owner

F. Limits on Testing Authority:

1. Agency or laboratory may not release, revoke, alter, or enlarge on requirements of Contract Documents.
2. Agency or laboratory may not approve or accept any portion of the Work.
3. Agency or laboratory may not assume duties of the Design Builder.
4. Agency or laboratory has no authority to stop the Work.

- G. Design Builder Responsibilities: Cooperate with agencies performing required tests, inspections, and similar quality-control services. Notify agency sufficiently in advance of operations to permit assignment of personnel. Provide the following:
1. Access to the Work.
 2. Incidental labor necessary to facilitate tests and inspections.
 3. Adequate quantities of representative samples of materials that require testing and inspecting. Assist agency in obtaining samples.
 4. Preliminary design mix proposed for use for material mixes that require control by testing agency.
 5. Provide required tests, inspections, and similar quality-control services reports to the Owner.
 6. Advise Owner as to any failures of tests, inspections, and similar quality-control services, and provide remedy for failures.

1.05 PAYMENT FOR TESTING

- A. The Design Builder will pay for initial testing and inspections services required by the specifications, the Quality Assurance Plans shown on the drawings and building code or regulatory agencies. Where the New Mexico Building Code mandates that the Owner employ Special Inspectors, Special Inspectors shall be selected by the Design Builder, and paid by the Design Builder. The Owner shall approve the selection of the Special Inspectors by the Design Builder
- B. When there is work which the Owner requires tested and inspected in addition to specified and required tests, the Design Builder will pay for the tests if the work does not comply with required standard and specifications. The Owner will pay for the tests if the work does comply with the required standards and specifications.
- C. Retesting and Re-inspecting: When initial reports indicate non-compliance with the Contract Documents, all subsequent retesting and re-inspecting occasioned by the non-compliance shall be performed by the same agency and costs thereof will be paid by the Design Builder at no additional cost to the Owner.

1.06 CODE COMPLIANCE TESTING AND INSPECTING

- A. Inspections and tests required by codes, ordinances, or by a plan approval authority, and which are made by a legally constituted authority, shall be the responsibility of and shall be paid for by the Design Builder, unless otherwise provided in the Contract Documents.

1.07 DESIGN BUILDER'S CONVENIENCE TESTING AND INSPECTING

- A. Inspecting and testing performed exclusively for the Design Builder's convenience shall be the sole responsibility of the Design Builder.

1.08 INSPECTION BY OWNER'S PERSONNEL

- A. From time to time, personnel in the employ of the Owner may inspect the Work where the work is in progress, but shall have no authority to direct the Design Builder or request changes in the Work except through the Design Builder.

1.09 MANUFACTURERS' FIELD SERVICES

- A. When specified in individual specification sections, require material or product suppliers or manufacturers to provide qualified staff personnel to observe site conditions, conditions of surfaces and installation, quality of workmanship, warranty inspections, start-up of equipment, and test, adjust and balance of equipment as applicable, and to initiate instructions when necessary.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.01 TAKING SPECIMENS

- A. Specimens for testing and samples, unless otherwise provided in the Contract documents, will be taken by the testing personnel. Sampling equipment and personnel will be provided by the testing laboratory. Deliveries of specimens and samples to the testing laboratory will be performed by the testing laboratory.

3.02 SCHEDULES FOR TESTING AND INSPECTING

- A. By advance discussion with the selected agency, determine the time required for the agency to perform its tests and inspection and to issue each of its findings.
- B. Provide required time within the construction schedule.
- C. When changes of construction schedule are necessary during construction, coordinate such changes of schedule with the agency as required.
- D. When the agency is ready to test or inspect according to the established schedule, but is prevented from performing its duties due to incompleteness of the Work, all extra charges attributable to the delay shall be back-charged to the Design Builder and shall not be borne by the Owner.

3.03 ALTERNATIVE INSPECTION PROCEDURE

- A. The Owner shall have the right to require alternative inspection procedures other than as specified when, in the Owner's judgment, other inspections are required to demonstrate compliance with the contract requirements. Costs of such alternative inspections will be borne by the Owner if products are found to comply; otherwise, costs shall be borne by the Contractor.

END OF SECTION

SECTION 01 70 00

EXECUTION REQUIREMENTS

PART 1 GENERAL

1.01 SUMMARY

- A. This Section includes administrative and procedural requirements for Execution of the Work, including, but not limited to, the following:
1. Installation.
 2. Field Engineering.
 3. Cutting and Patching.
 4. Protecting Installed Construction.
 5. Progress Cleaning.

1.02 INSTALLATION

- A. Utility Requirements:
1. The Design Builder shall arrange for all spotting of lines by utility companies in advance of any excavation work.
 2. Verify utility requirements and characteristics of equipment are compatible with facility utilities. Coordinate work of various specification sections having interdependent requirements for installing, connecting to, and placing in service such equipment.
- B. Space Requirements:
1. Coordinate space requirements and installation of mechanical, electrical, and other work shown diagrammatically on Drawings. Follow routing shown for pipes, ducts, and wireways as closely as practicable. Utilize spaces efficiently to maximize accessibility for other installations, maintenance, and repairs.
 2. Where space is limited, coordinate installation of components to ensure maximum access for maintenance. Ensure space provided around equipment and fixtures complies with applicable codes.
- C. Concealment: In finished areas, conceal pipes, ducts, and wire ways within construction except as otherwise indicated. Where practical, conceal supports, fasteners, and other attachment devices.
- D. Arrangement:
1. Unless otherwise indicated, installations shall be aligned vertically and horizontally. Place piping, conduit, wire ways, and other linear items parallel with lines of building.
 2. Coordinate mounting heights and spacing of components so that finished work is neat and orderly with organized appearance.

3. Repetitive items such as hangers and fasteners shall be equally spaced unless indicated otherwise.
- E. Blocking, anchors, and supports: Determine and coordinate requirements for blocking, anchors, and supports needed for proper installation of products. Provide necessary components whether or not indicated on Drawings or specified.
- F. Finished surfaces: Coordinate locations of fixtures, boxes, and other recessed or surface mounted items with finish elements and grades to ensure proper installation and neat appearance.
- G. Openings made in installed exterior surfaces shall be closed to protect construction from weather and extremes of temperature and humidity.

1.03 FIELD ENGINEERING

- A. Employ Registered Land Surveyor acceptable to Owner.
- B. Locate and protect survey control and reference points. Promptly notify the Owner of discrepancies discovered.
- C. Verify set-backs and easements; confirm drawing dimensions and elevations.
- D. Provide field engineering services. Establish elevations, lines, and levels, utilizing recognized engineering survey practices.
- E. Maintain complete and accurate log of control and survey work as Work progresses.

1.04 CUTTING AND PATCHING

- A. Employ skilled and experienced installer to perform cutting and patching.
- B. Execute cutting, fitting, and patching including excavation and fill, to complete Work, and to:
 1. Fit the several parts together, to integrate with other Work.
 2. Uncover Work to install or correct ill-timed Work.
 3. Remove and replace defective and non-conforming Work.
 4. Remove samples of installed Work for testing.
 5. Provide openings in elements of Work for penetrations of mechanical and electrical Work.
- C. Execute work by methods to avoid damage to other Work, and to provide proper surfaces to receive patching and finishing.
- D. Identify hazardous substances or conditions exposed during the Work to the Owner for decision or remedy.

- E. Cut masonry and concrete materials using masonry saw or core drill.
- F. Fit Work tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.
- G. Close openings in exterior surfaces to protect existing work from weather and extremes of temperature and humidity. Maintain integrity of wall, ceiling, or floor construction; completely seal voids.
- H. At penetrations of fire rated walls, partitions, ceiling, or floor construction, completely seal voids with fire rated material to full thickness of penetrated element.
- I. Remove, cut, and patch Work in manner to minimize damage and to permit restoring products and finishes to original or specified condition. Restore Work with new products in accordance with requirements of Contract Documents.
 - 1. Materials: As specified in product sections; match existing with new products and salvaged products for patching and extending work.
 - 2. Refinish existing visible surfaces to remain in renovated rooms and spaces, to specified condition for each material, with neat transition to adjacent finishes.
 - 3. Patch or replace portions of existing surfaces which are damaged, lifted, discolored, or showing other imperfections.
 - 4. Prepare surface and remove surface finishes to permit installation of new work and finishes.
 - 5. Refinish surfaces to match adjacent finishes. For continuous surfaces, refinish to nearest intersection; for assembly, refinish entire unit.
 - 6. Where new Work abuts or aligns with existing, provide smooth and even transition.
 - a. When finished surfaces are cut so that smooth transition with new Work is not possible, terminate existing surface along straight line at natural line of division.
 - b. Where change of plane of 1/4-inch or more occurs, submit recommendation for providing smooth transition; to Design Builder's A/E for review.
 - 7. Patch Work to match existing adjacent Work in texture and appearance.
- J. Asphalt Pavement:
 - 1. Where existing or new pavement is damaged from construction operations, cut to install new underground utilities and where existing items are removed from paved areas:
 - a. Cut pavement with saw or other means to provide neat, straight joints.
 - b. Where existing pavement is damaged by removals, remove additional pavement to allow clean cuts.
 - c. Backfill and sufficiently compact removal area prior to placement of pavement.

- d. Place pavement to match existing materials and thickness.
- e. Immediately after placement.

1.05 PROTECTING INSTALLED CONSTRUCTION

- A. Protect installed Work and provide special protection where specified in individual specification sections.
- B. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.
- C. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings.
- D. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.
- E. Prohibit traffic or storage upon waterproofed or roofed surfaces. When traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.
- F. Prohibit traffic from landscaped areas.

1.06 PROGRESS CLEANING

- A. Conduct cleaning and disposal operations to comply with codes, ordinances, regulations, and anti-pollution laws.
- B. Use only those cleaning materials which will not create hazards to health or property and which will not damage surfaces.
- C. Use only those cleaning materials and methods recommended by manufacturer of the surface material to be cleaned.
- D. Use cleaning materials only on surfaces recommended by cleaning material manufacturer.
- E. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.
- F. Remove waste materials, debris, and rubbish from site weekly and legally dispose of off-site.
- G. Remove debris and rubbish from pipe chases, plenums, crawl spaces, above suspended ceilings, and other closed and remote spaces prior to enclosing space.
- H. Prior to surface finishing, broom and vacuum clean interior areas to eliminate dust.

- I. Washing of concrete trucks and dumping of excess cementitious material on site is not allowed. All such materials and contaminated soil shall be removed.
- J. Soils and other site material contaminated by paint residues, oils, fuels, and other construction products shall be removed and replaced with equivalent soil or material.
- K. Existing lawns, landscaped areas, and areas for future landscaping affected by construction operations shall be raked to remove stones, mortars, aggregates, and other construction debris in excess of 3/4 inch diameter.
- L. Clean mud and sediment resulting from Contractor's operations or traffic from all sidewalks, public streets and parking areas.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

SECTION 01 75 00

STARTING AND ADJUSTING

PART 1 GENERAL

1.01 SUMMARY

- A. This Section includes administrative and procedural requirements for:
 - 1. Starting of Systems.
 - 2. Testing, Adjusting and Balancing.

1.02 STARTING OF SYSTEMS

- A. Coordinate schedule for start-up of various equipment and systems.
- B. Notify Owner 7 days prior to start-up of each item.
- C. Prior to startup, inspect items of equipment and systems to ensure that:
 - 1. Installation is in accordance with manufacturer's instructions.
 - 2. No defective items have been installed and there are no loose connections.
 - 3. Power supplies are correct voltage, phasing, and frequency.
 - 4. Grounding and transient protection systems are properly installed.
 - 5. Items have been properly lubricated, belts tensioned, and control sequence and other conditions which may cause damage have been addressed.
 - 6. Verify tests, meter readings, and specified electrical characteristics agree with those required by equipment or system manufacturer.
 - 7. Verify wiring and support components for equipment are complete and tested.
 - 8. Verify that provisions have been made for safety of personnel.
- D. Execute start-up under supervision in accordance with manufacturers' instructions.
 - 1. When specified in individual sections, require manufacturer to provide authorized representative to be present at site to inspect, check, and approve equipment and system installation prior to startup and to supervise placing equipment and system in operation.
 - 2. Adjustment: Monitor systems and verify performance. Correct deficiencies. Replace defective components and equipment. Adjust equipment and systems for smooth and proper installation.
 - 3. Submit written report in accordance with Submittal Procedures that equipment and systems have been properly installed and are functioning correctly

1.03 TESTING, ADJUSTING AND BALANCING

- A. Independent firm will perform testing, balancing and adjusting services specified in other sections.

- B. Reports will be submitted by independent firm to the Design Builder's A/E and Owner indicating observations and results of tests and indicating compliance or non-compliance with requirements of Contract Documents.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

SECTION 01 77 00

CLOSEOUT PROCEDURES

PART 1 GENERAL

1.01 SUMMARY

- A. This Section includes administrative and procedural requirements for Contract Close-Out, including, but not limited to, the following:
1. Close-Out Procedures.
 2. Final Cleaning.
 3. Final Completion and Inspection.
 4. Maintenance Service.
 5. Correction Period Inspection.

1.02 CLOSEOUT PROCEDURES

- A. Substantial Completion:
1. Preliminary Procedures: Prior to requesting Owners inspection for certification of substantial completion (for either entire work or portions thereof), complete the following and list known exceptions in request:
 - a. Prepare a list of items to be completed and corrected (punch list), the value of items on the list, and reasons why the Work is not complete.
 - b. Advise Owner of pending insurance change-over requirements.
 - c. Submit specific warranties, workmanship/maintenance bonds, maintenance agreements, final certifications and similar documents.
 - d. Obtain and submit releases enabling Owner's full and unrestricted use of the work and access to services and utilities, including occupancy permits, operating certificates, and similar releases.
 - e. Prepare and submit Project Record Documents, operation and maintenance manuals, and similar final record information.
 - f. Deliver tools, spare parts, extra materials, and similar items to location designated by Owner. Label with manufacturer's name and model number where applicable.
 - g. Make final changeover of permanent locks and deliver keys to Owner. Advise Owner's personnel of changeover in security provisions.
 - h. Complete startup testing of systems.
 - i. Submit test/adjust/balance records.
 - j. Terminate and remove temporary facilities from Project site, along with mockups, construction tools, and similar elements.
 - k. Advise Owner of changeover in heat and other utilities.
 - l. Submit changeover information related to Owner's occupancy, use, operation, and maintenance.
 - m. Complete final cleaning requirements, including touchup painting.

- n. Touch up and otherwise repair and restore marred exposed finishes to eliminate visual defects.
- 2. Inspection: Submit a written request for inspection for Substantial Completion to the Owner. On receipt of request, Owner will either proceed with inspection or notify Design Builder of unfulfilled requirements. Design Builder will prepare the Certificate of Substantial Completion after inspection or will notify the Design Builder's Contractor of items identified by the Owner, that must be completed or corrected before certificate will be issued.
 - a. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.
 - b. Results of completed inspection will form the basis of requirements for Final Completion.

1.03 FINAL CLEANING

- A. Employ experienced workers or professional cleaners for final cleaning.
 - 1. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program.
 - 2. Comply with manufacturer's written instructions.
- B. Clean equipment and fixtures to sanitary condition with cleaning materials appropriate to surface and material being cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.
- C. Replace filters of operating equipment.
- D. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a portion of Project:
 - 1. Clean Project site, yard, and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter, and other foreign substances.
 - 2. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits.
 - 3. Rake grounds that are neither planted nor paved to a smooth, even-textured surface.
 - 4. Remove tools, construction equipment, machinery, and surplus material from Project site.
 - 5. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
 - 6. Remove debris and surface dust from limited access spaces, including roofs, plenums, shafts, trenches, equipment vaults, manholes, attics, and similar spaces.
 - 7. Sweep concrete floors broom-clean in unoccupied spaces.

8. Vacuum carpet and similar soft surfaces, removing debris and excess nap; shampoo if visible soil or stains remain.
 9. Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compounds and other noticeable, vision-obscuring materials. Replace chipped or broken glass and other damaged transparent materials. Polish mirrors and glass, taking care not to scratch surfaces.
 10. Remove labels that are not permanent.
 11. Touch up and otherwise repair and restore marred, exposed finishes and surfaces. Replace finishes and surfaces that cannot be satisfactorily repaired or restored or that already show evidence of repair or restoration.
 - a. Do not paint over "UL" and similar labels, including mechanical and electrical nameplates.
 - b. Wipe surfaces of mechanical and electrical equipment, and similar equipment. Remove excess lubrication, paint and mortar droppings, and other foreign substances.
 - c. Replace parts subject to unusual operating conditions.
 - d. Clean plumbing fixtures to a sanitary condition, free of stains, including stains resulting from water exposure.
 - e. Replace disposable air filters and clean permanent air filters. Clean exposed surfaces of diffusers, registers, and grills.
 - f. Clean light fixtures, lamps, globes, and reflectors to function with full efficiency. Replace defective LED fixtures, and those noticeably dimmed by hours of use.
 - g. Leave Project clean and ready for occupancy.
- E. Comply with Safety Standards for Cleaning:
1. Do not burn waste materials.
 2. Do not bury debris or excess materials on Owner's property.
 3. Do not discharge volatile, harmful, or dangerous materials into drainage systems.
 4. Remove waste materials from Project site and dispose of lawfully.
- F. Removal of Protection: Except as otherwise indicated or requested by Owner, remove temporary protection devices and facilities which were installed during course of the work.
- G. Compliances: Comply with safety standards and governing regulations for cleaning operations. Do not burn waste materials at site, or bury debris or excess materials on Owner's property, or discharge volatile or other harmful or dangerous materials into drainage systems. Remove waste materials from site and dispose of in a lawful manner.
- H. Where extra materials of value remaining after completion of associated work have become Owner's property, dispose of these to Owner's best advantage as directed.

1.04 FINAL COMPLETION

A. Preliminary Procedures:

1. Submit a final Application for Payment according to Section 01 29 00 – Payment Procedures. Submit with final releases, waivers and consents.
2. Submit certified copy of Design Builder’s Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by the Design Builder. The certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.
3. Submit final meter readings for utilities, a measured record of stored fuel, and similar data as of date of Substantial Completion or when Owner took possession of and assumed responsibility for corresponding elements of the Work.
4. Submit evidence of final, continuing insurance coverage complying with insurance requirements.
5. Notify Owner and request change over in insurance, utilities, and security.
6. Submit insurance certificates for products and completed operations as required by Specification Sections.
7. Submit complete close-out package per Section 01 78 00 – Closeout Submittals.
8. Instruct Owner’s personnel in operation, adjustment, and maintenance of products, equipment, and systems per Section 01 79 00 – Demonstration and Training.

1.05 FINAL INSPECTION

- A. Submit a written request for final inspection for acceptance. On receipt of request, Owner will either proceed with inspection or notify Contractor of unfulfilled requirements. Owner will prepare a final Certificate for Payment after inspection or will notify the Design Builder of construction that must be completed or corrected before certificate will be issued.
- B. Request re-inspection when the Work identified in previous inspections as incomplete is completed or corrected.

1.06 MAINTENANCE SERVICE

- A. Furnish service and maintenance of components indicated in specification sections for specified period from date of Substantial Completion.
- B. Examine system components at frequency consistent with reliable operation. Clean, adjust, and lubricate as required.
- C. Include systematic examination, adjustment, and lubrication of components. Repair or replace parts whenever required. Use parts produced by manufacturer of original component.

- D. Do not assign or transfer maintenance service to agent or Subcontractor without prior written consent of Owner.

1.07 CORRECTION PERIOD INSPECTION

- A. 30 days prior to end of one year correction period, schedule and attend a one year correction period inspection. Appropriate subcontractors shall attend.
- B. Coordinate time of inspection with the Owner.
- C. Representatives of Owner, Design Builder, Design Builder's A/E, and appropriate consultants will attend.
- D. Correct deficiencies shall be noted and addressed by the Design Builder.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

SECTION 01 78 00

CLOSEOUT SUBMITTALS

PART 1 GENERAL

1.01 SUMMARY

- A. This Section includes the following Closeout Submittals:
1. Project Record Documents.
 2. Operation and Maintenance Manuals.
 3. Tools, Spare Parts, Maintenance and Extra Stock Products.
 4. Warranties.
 5. Certificates of Inspection and Compliance.

1.02 PROJECT RECORD DOCUMENTS

- A. General:
1. Do not use Project Record Documents for construction purposes. Store Record Documents and Samples in the field office apart from the Contract Documents used for construction.
 2. Protect Project Record Documents from deterioration and loss.
 3. Provide access to Project Record Documents for Owner reference during normal working hours.
 4. Maintain one (1) copy of each document type during construction period for Project Record Document purposes.
 5. Post changes and modifications to Project Record Documents on a weekly basis.
- B. Record Drawings: Maintain and submit one (1) set of blue- or black-line white prints of Contract Drawings and Shop Drawings.
1. Mark Record Prints to show the actual installation where installation varies from that shown originally. Require individual or entity who obtained record data, whether individual or entity is Installer, subcontractor, or similar entity, to prepare the marked-up Record Prints.
 - a. Give particular attention to information on concealed elements that cannot be readily identified and recorded later.
 - b. Record data as soon as possible after obtaining it. Record and check the markup before enclosing concealed installations.
 - c. Mark record sets with erasable, red-colored pencil. Use other colors to distinguish between changes for different categories of the Work at the same location.
 - 1) Clearly describe the change by note and by graphic line, as required.
 - 2) Date all entries.

- 3) Call attention to the entry by a “cloud” around the area or areas affected.
 - 4) In the event of overlapping changes, different colors may be used for each of the changes.
- d. Where changes are caused by Change Directive numbers, Change Order numbers, alternate numbers, and similar identification, clearly indicate the change by note in ink, colored pencil, or rubber stamp.
 - e. Because design of future modifications to the facility may require accurate information as to the final physical arrangement of items which were originally drawn schematically on the Drawings convert schematic layouts to show its final physical arrangement.
 - f. Show on the job set of Record Drawings, by dimension accurate to within 1 inch, the centerline of each run of items described in the preceding paragraph. Clearly identify the item by accurate note such as “3” cast iron water main”, etc. Show, by symbol or note, the vertical control elevation of the item. Make all identification sufficiently descriptive that it may be related reliably to the specifications.
 - g. The Owner may waive the requirements for conversion of schematic data where, in the Owner’s judgment, such conversion serves no beneficial purpose. Owner will issue a written waiver when this applies.
 - h. Identify and date each Record Drawing; include the designation “PROJECT RECORD DRAWING” in a prominent location. Organize into manageable sets; bind each set with durable paper cover sheets. Include identification on cover sheets.
 - i. Submit documents to the Owner prior to or in conjunction with submission of Contractor’s request for Substantial Completion and in accordance with Owner’s procedures.
- C. Record Specifications: Submit one (1) copy of Project’s Specifications, including addenda and contract modifications. Mark copy to indicate the actual product installation where installation varies from that indicated in Specifications, addenda, and contract modifications.
1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
 2. Mark copy with the proprietary name and model number of products, materials, and equipment furnished, including substitutions and product options selected.
 3. Note related Change Orders and Record Drawings, where applicable.
- D. Miscellaneous Record Submittals: Assemble miscellaneous records required by other Specification Sections for miscellaneous record keeping and submittal in connection with actual performance of the Work. Bind or file miscellaneous records and identify each, ready for continued use and reference. Include the following:
1. Addenda.
 2. Change Orders and other modifications to the Contract.
 3. Reviewed Shop Drawings, Product Data, and Samples.
 4. Manufacturer’s instruction for assembly, installation, and adjusting.

5. Test and Inspection Reports.
6. Design Mix Records.
7. Inspections by Authority having Jurisdiction.

1.03 OPERATION AND MAINTENANCE MANUALS

A. General:

1. Submit two (2) copies of each manual in final form to the Owner at least 10 days before final inspection.

B. Binders: Heavy-duty, 3-ring, vinyl-covered, loose-leaf binders, in thickness necessary to accommodate contents, sized to hold 8-1/2-by-11-inch paper; with clear plastic sleeve on spine to hold label describing contents and with pockets inside covers to hold folded oversize sheets.

1. Identify each binder on front and spine, with printed title "OPERATION AND MAINTENANCE MANUAL," Project title or name, and subject matter of contents. Indicate volume number for multiple-volume sets.
2. Dividers: Heavy-paper dividers with plastic-covered tabs for each section. Mark each tab to indicate contents. Include typed list of products and major components of equipment included in the section on each divider, cross-referenced to Specification Section number and title of Project Manual.
3. Protective Plastic Sleeves: Transparent plastic sleeves designed to enclose diagnostic software diskettes for computerized electronic equipment.

C. Organization: Unless otherwise indicated, organize each manual into a separate section for each system and subsystem, and a separate section for each piece of equipment not part of a system. Each manual shall contain a title page, table of contents, and manual contents.

1. Title Page: Enclose title page in transparent plastic sleeve. Include the following information:
2. Subject matter included in manual.
3. Name and address of Project.
4. Name and address of Owner.
5. Date of submittal.
6. Name, address, and telephone number of Design Builder.
7. Name, address, and telephone number of Design Builder's A/E.
8. Table of Contents: List each product included in manual, identified by product name, indexed to content of volume, and cross-referenced to Specification Section number in Project Manual.
9. Manual Contents: Organize into sets of manageable size. Arrange contents alphabetically by system, subsystem, and equipment. If possible, assemble instructions for subsystems, equipment, and components of one system into a single binder.
10. Include information needed for daily operations and management of systems and equipment. In addition to requirements in this Section, include operation data required in individual Specification Sections and equipment descriptions,

operating standards, operating procedures, operating logs, wiring and control diagrams, and license requirements.

11. Include the following:
 - a. Product name and model number.
 - b. Manufacturer's name.
 - c. Equipment identification with serial number of each component.
 - d. Equipment function.
 - e. Operating characteristics.
 - f. Limiting conditions.
 - g. Performance curves.
 - h. Engineering data and tests.
 - i. Complete nomenclature and number of replacement parts.
 12. Operating Procedures: Include startup, break-in, and control procedures; stopping and normal shutdown instructions; routine, normal, seasonal, and weekend operating instructions; and required sequences for electric or electronic systems.
 13. Systems and Equipment Controls: Describe sequence of operation, and diagram controls as installed.
 14. Piped Systems: Diagram piping as installed, and identify color-coding where required for identification.
- D. Drawings: Attach reinforced, punched binder tabs on Drawings and bind with text.
1. If oversize Drawings are necessary, fold Drawings to same size as text pages and use as foldouts.
 2. If Drawings are too large to be used as foldouts, fold and place Drawings in labeled envelopes and bind envelopes in rear of manual. At appropriate locations in manual, insert typewritten pages indicating Drawing titles, descriptions of contents, and Drawing locations.
- E. Include the following in combined or separate manuals:
1. Manual for materials and finishes:
 2. Building Products, Applied Materials, and Finishes: Include product data, with catalog number, size, composition, and color and texture designations.
 3. Instructions for Care and Maintenance: Include manufacturer's recommendations for cleaning agents and methods, precautions against detrimental agents and methods, and recommended schedule for cleaning and maintenance.
 4. Moisture Protection and Weather Exposed Products: Include product data listing applicable reference standards, chemical composition, and details of installation. Include recommendations for inspections, maintenance, and repair.
 5. Manual for equipment and systems.
 6. Each Item of Equipment and Each System: Include description of unit or system, and component parts. Identify function, normal operating characteristics, and limiting conditions. Include performance curves, with engineering data and tests, and complete nomenclature and model number of replaceable parts.

7. Panelboard Circuit Directories: Provide electrical service characteristics, controls, and communications.
8. Include color coded wiring diagrams as installed.
9. Include original manufacturer's parts list, illustrations, Assembly Drawings, and diagrams required for maintenance.
10. Include control diagrams by controls manufacturer as installed.
11. Include Contractor's Coordination Drawings, with color coded piping diagrams as installed.
12. Include charts of valve tag numbers, with location and function of each valve, keyed to flow and control diagrams.
13. Include list of original manufacturer's spare parts, current prices, and recommended quantities to be maintained in storage.

1.04 TOOLS, SPARE PARTS, MAINTENANCE AND EXTRA STOCK PRODUCTS

- A. Furnish tools, spare parts, maintenance, extra products and computer programming materials in quantities specified in individual specification sections and deliver to Owner.
- B. Deliver to Project site and place in location as directed by Owner, extra stock as specified in sections.
 1. Owner's Representative will log in materials as delivered.
 2. Obtain receipt for delivered materials.

1.05 WARRANTIES

- A. Submittal Time: Submit written warranties on request of the Owner or designated portions of the Work where commencement of warranties other than date of Substantial Completion is indicated.
- B. Organize warranty documents into an orderly sequence based on the table of contents of the Project Manual.
 1. Bind warranties and bonds in heavy-duty, 3-ring, vinyl-covered, loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8-1/2-by-11-inch paper.
 2. Provide heavy paper dividers with plastic-covered tabs for each separate warranty. Mark tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product and the name, address, and telephone number of Installer.
 3. Identify each binder on the front and spine with the typed or printed title "WARRANTIES," Project name, and name of Contractor.
- C. Provide additional copies of each warranty to include in operation and maintenance manuals.

1.06 CERTIFICATES OF INSPECTION AND COMPLIANCE

- A. For inspections throughout the construction period required by regulatory agencies, obtain and maintain certificates issued to show compliance.
- B. Assemble certificates and any formal written evidence of regulatory compliance in three ring binder with table of contents and submit to Owner prior to or in conjunction with submission of Notice of Substantial Completion.
 - 1. Include Design Builders Certification that all work has been performed in compliance with the New Mexico Building Code, current edition and all of its referenced codes including, but limited to IBC, UPC, UMC, NEC.
- C. Certificate of Occupancy: Prior to Substantial Completion, obtain Certificate of Occupancy from authorities having jurisdiction. Submit with Notice for Substantial Completion.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

SECTION 01 79 00

DEMONSTRATION AND TRAINING

PART 1 GENERAL

1.01 SUMMARY

- A. This Section includes administrative and procedural requirements for Demonstration of Equipment and Systems and Training of Owner's Personnel.

1.02 DEMONSTRATION AND TRAINING SCHEDULING

- A. Schedule demonstration and training sessions after equipment and systems have been completely installed, startup completed, and adjustments made prior to date of Substantial Completion.
 1. Submit list of names, resumes, and qualifications of personnel conducting training sessions. Provide instructors experienced in operation and maintenance procedures.
 2. Submit preliminary schedule listing times, dates, and outline showing organization and proposed contents of training sessions for approval by the Owner.
 3. Provide instruction at mutually agreed-on times.
 4. Required instruction time for each item of equipment and system is specified in individual sections.
- B. Owner shall be responsible for designating and notifying personnel to attend and ensuring attendance at scheduled sessions.

1.03 TRAINING MATERIALS

- A. Training manuals: Loose leaf notebook format with agenda and objectives of each lesson.
 1. Manuals shall describe function, operation, and maintenance of various items of equipment and be suitable for personnel with high school education.
 2. Manuals shall be suitable for future training of Owner personnel by Owner staff.
 3. Manuals shall useful reference for staff maintaining facility.
 4. Provide three copies.
- B. Visual aids: Provide charts, handouts, overhead projector slides, electronic presentations, and other visual aids required to make effective presentation and facilitate training.
 1. Equipment needed for showing visual training aids shall be provided by Contractor.

2. Visual aids shall be suitable for use by Owner's staff to train additional personnel in the future.
- C. Submit report within 1 week after completion of training that sessions have been satisfactorily completed. Give times, dates, list of persons trained, and summary of instructions.
- D. For equipment or systems requiring seasonal operation, perform demonstration for all seasons.
- E. Utilize operation and maintenance manuals as basis for instruction. Review contents of manual with Owner's personnel in detail to explain all aspects of operation and maintenance.
- F. Demonstrate start-up, operation, control, adjustment, trouble-shooting, servicing, maintenance, and shutdown of each item of equipment.
- G. Prepare and insert additional data in Operations and Maintenance (O&M) Manuals when need for additional data becomes apparent during instruction

1.04 DEMONSTRATION AND TRAINING SESSIONS

- A. Provide demonstration and training session to emphasize operation, use, and maintenance of installed items and systems:
 1. Mechanical systems specified in respective divisions
 2. Electrical systems specified in respective division.
 3. Fire protection systems specified in respective divisions
 4. Other items and systems as designated by A/E or requested by Owner.
- B. Conduct at project site using actual installed equipment and systems.
- C. Have copies of O&M Manuals available. Use as training aids.
- D. Owner shall have right to record or video tape demonstration and training sessions.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

Appendix J
Bridging Documents

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Valencia Hospital

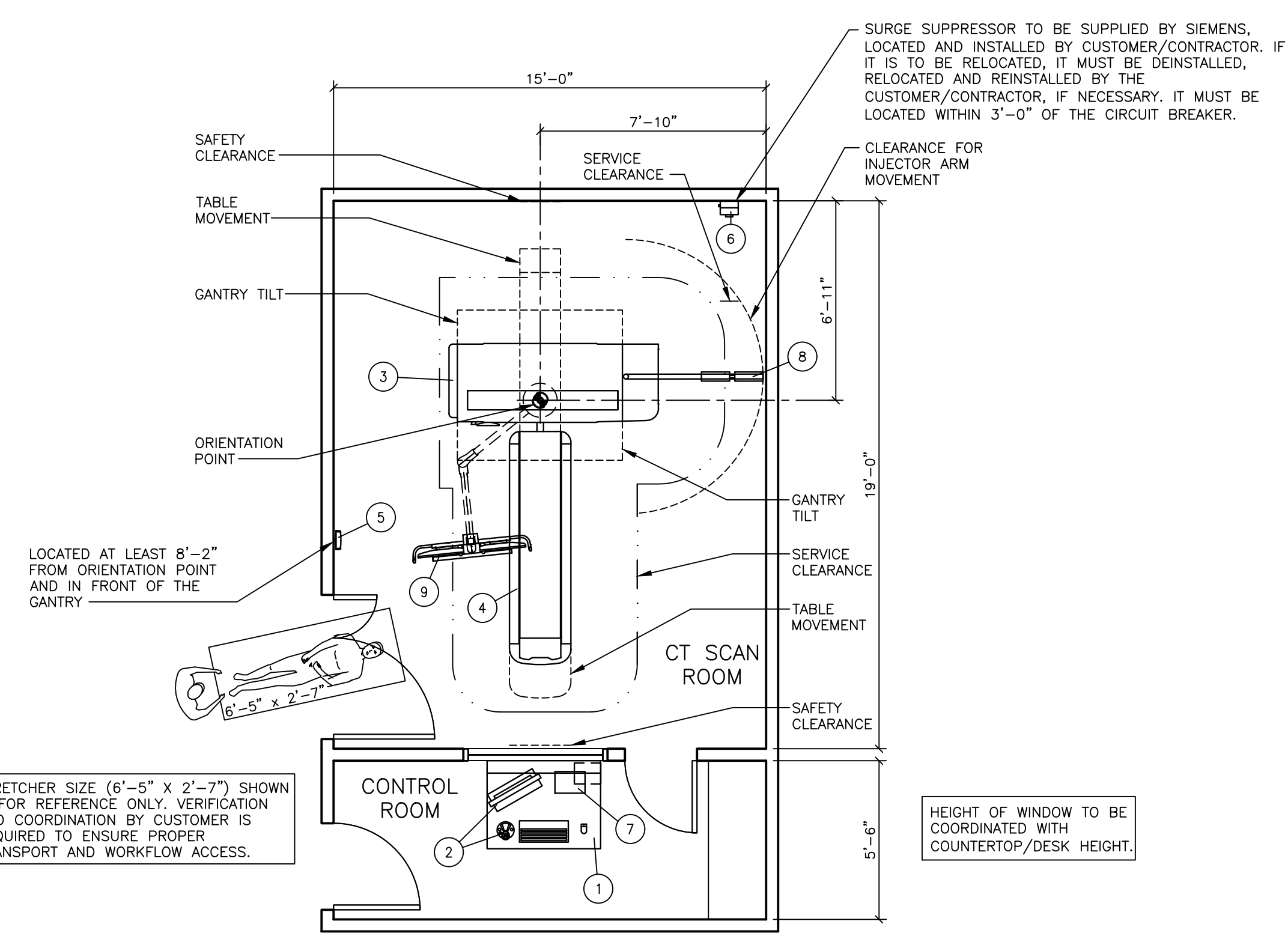
Conceptual Development Program

DEPARTMENT

SQUARE FOOTAGE REVIEWED DGSF

Original Program	Original DGSF	Disparity
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<u>OPERATIONS & ADMIN.</u>	
Admin./ BusOff/MedRec/Med Staff/RiskMar	2,139
HR-IS-Education	276
Lobbies & Admitting	742
<u>SURGICAL SERVICES</u>	
Pre-op/Recovery	3,508
Surgery/Special Procedures	5,557
Central Sterile Supply	632
<u>PATIENT CARE SERVICES</u>	
Med/SurgA (All Private)/ICU	7,592
<u>CRITICAL CARE</u>	
ED-Triage	5,803
ED-Emergent	
ED-Urgent	
<u>DIAGNOSTICS & THERAPY</u>	
Light Diagnostics (SEE BELOW)	707
Heavy Diagnostics	3,496
<u>CENTRAL SUPPORT</u>	
Rapid Response Lat	540 (Stat Lab Only)
Materials Mgmt	844
Pharmacy	872
Food Service	1,468
Housekeeping	581
Maintenance	346
Powerhouse(TBD)	225
TOTAL DGSF:	35,327
Circulation @ 5%	1766
Building Systems @ 2.5%	927
Walls,canopies etc. @ 2.5%	951
BGSF:	38,971
Building Efficiency Factor @ 2%	0
TOTAL BGSF:	38,971

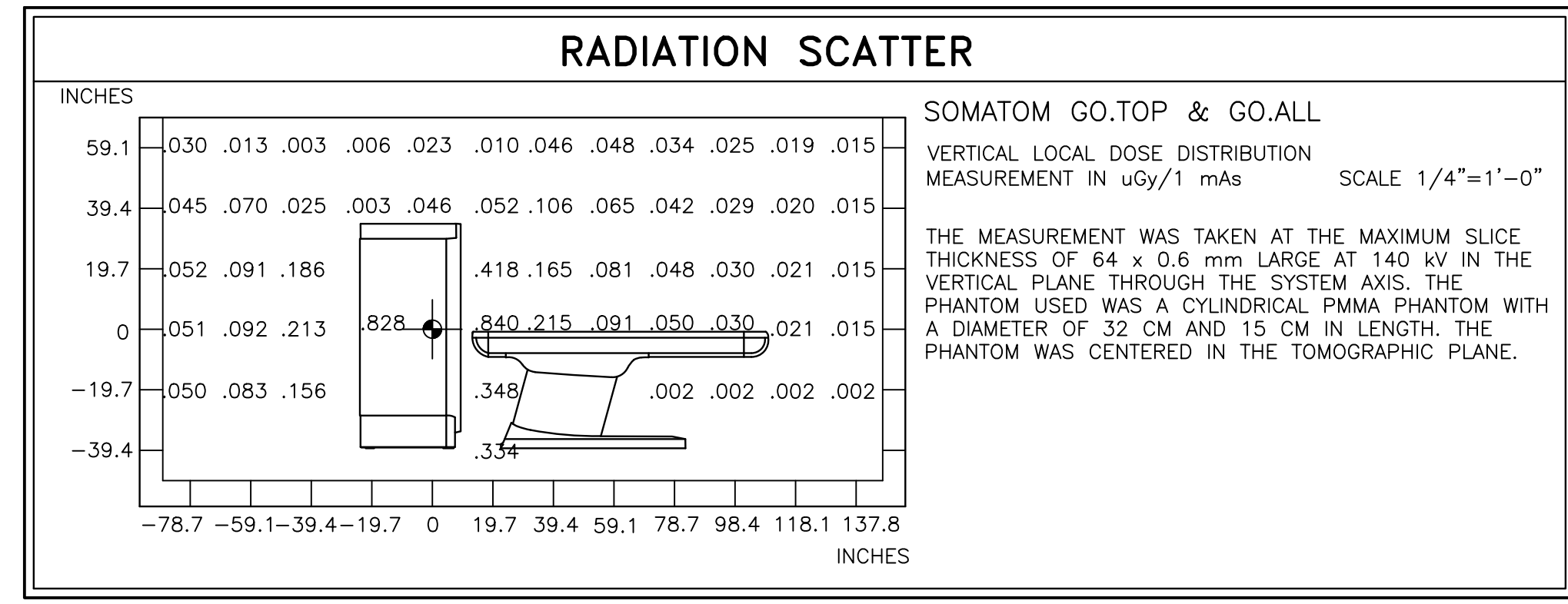


STRETCHER SIZE (6'-5" x 2'-7") SHOWN IS FOR REFERENCE ONLY. VERIFICATION AND COORDINATION BY CUSTOMER IS REQUIRED TO ENSURE PROPER TRANSPORT AND WORKFLOW ACCESS.

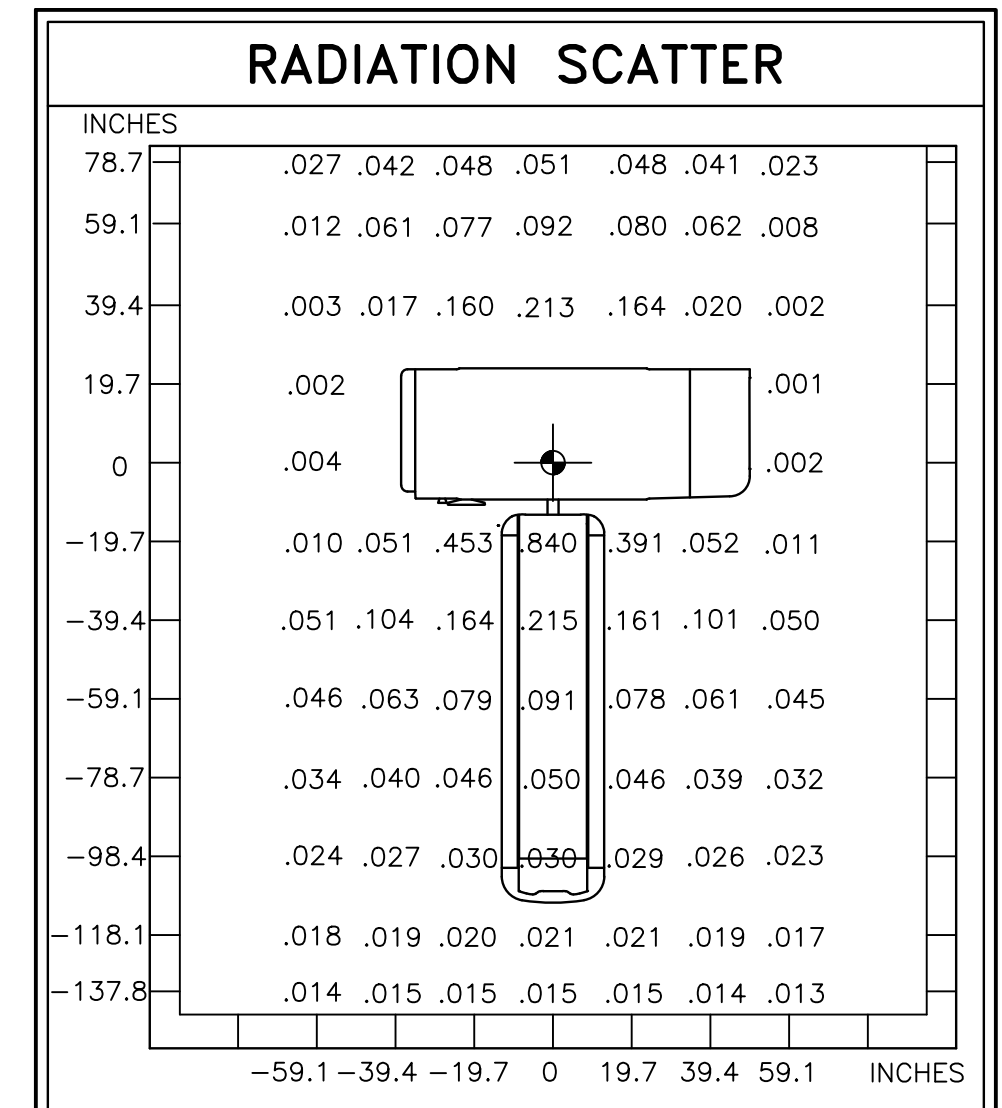
HEIGHT OF WINDOW TO BE COORDINATED WITH COUNTERTOP/DESK HEIGHT.

ARCHITECTURAL EQUIPMENT PLAN

SCALE: 1/4" = 1'-0"



SOMATOM GO.TOP & GO.ALL
 VERTICAL LOCAL DOSE DISTRIBUTION MEASUREMENT IN uGy/1 mAs
 SCALE 1/4"=1'-0"
 THE MEASUREMENT WAS TAKEN AT THE MAXIMUM SLICE THICKNESS OF 64 x 0.6 mm LARGE AT 140 kV IN THE VERTICAL PLANE THROUGH THE SYSTEM AXIS. THE PHANTOM USED WAS A CYLINDRICAL PMMA PHANTOM WITH A DIAMETER OF 32 CM AND 15 CM IN LENGTH. THE PHANTOM WAS CENTERED IN THE TOMOGRAPHIC PLANE.

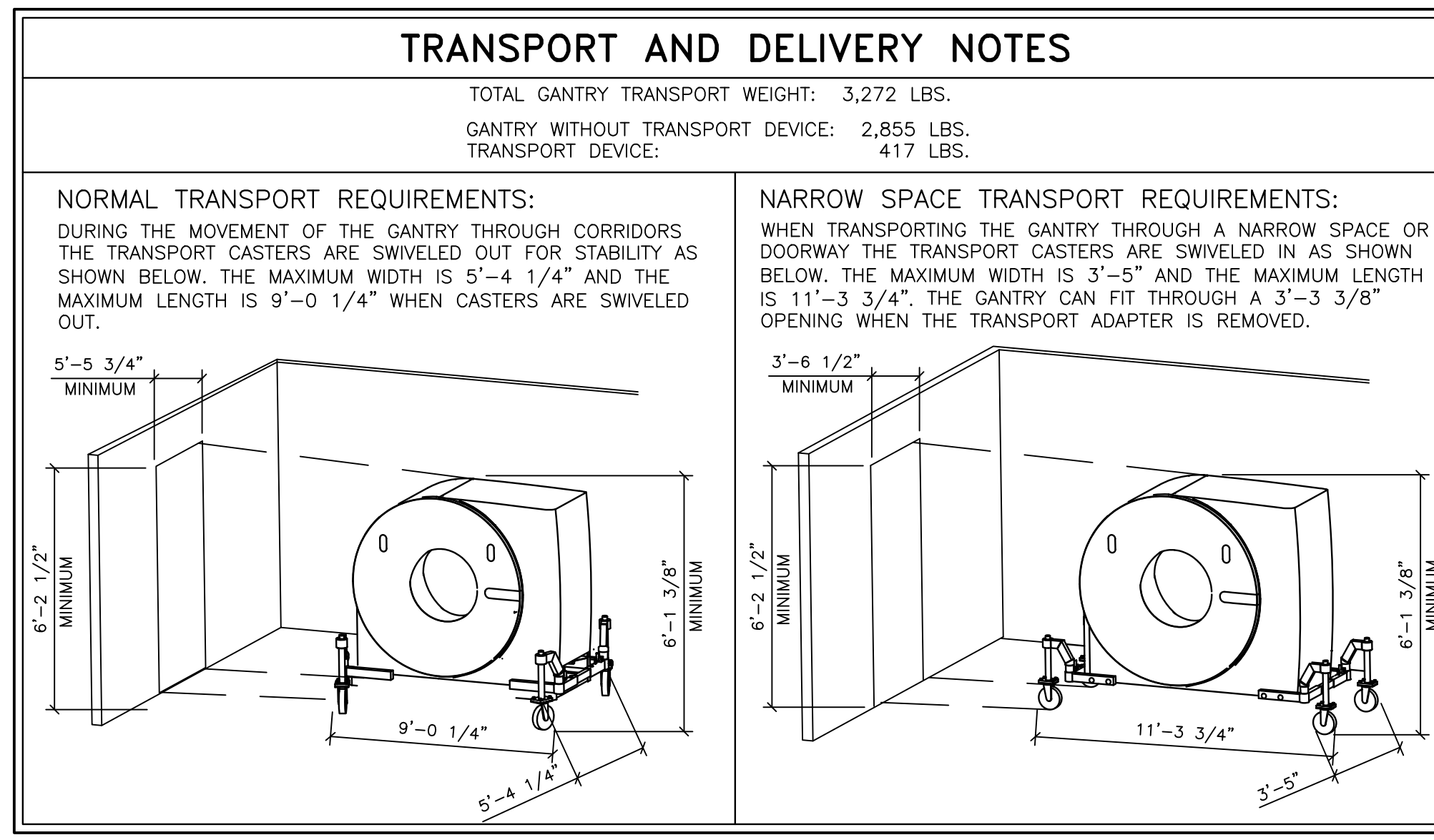


SOMATOM GO.TOP & GO.ALL
 MEASUREMENT IN uGy/1 mAs
 SCALE 1/4"=1'-0"
 THE MEASUREMENT WAS TAKEN AT THE MAXIMUM SLICE THICKNESS OF 64 x 0.6 mm LARGE AT 140 kV IN THE HORIZONTAL PLANE THROUGH THE SYSTEM AXIS. THE PHANTOM USED WAS A CYLINDRICAL PMMA PHANTOM WITH A DIAMETER OF 32 CM AND 15 CM IN LENGTH. THE PHANTOM WAS CENTERED IN THE TOMOGRAPHIC PLANE.

ENVIRONMENTAL CONDITIONS	
AIR TEMPERATURE	MINIMUM 64.4°F TO 86°F MAXIMUM
RELATIVE HUMIDITY	20% TO 75%
ABSOLUTE HUMIDITY	MAXIMUM 30 G/M ³ (NO CONDENSATION AT ANY TIME)
TEMPERATURE GRADIENT	MAXIMUM 6 KELVIN PER HOUR
BAROMETRIC PRESSURE	11.6 TO 15.4 PSI
INSTALLATION ALTITUDE	MAXIMUM 6562 FT. A.S.L.
EXTERIOR AIR VENTS SHOULD BE EQUIPPED WITH A FILTRATION SYSTEM OF THE FILTER CLASS MERV 8 TO FILTER DUST PARTICLES >10 μm.	
THE ROOM AIR SHOULD BE PROTECTED AGAINST CONTAMINATION BY HYDROGEN SULPHIDE, EVEN IN SMALL AMOUNTS. IF A DANGER OF SUCH CONTAMINATION EXISTS, CORRECTIVE ACTIONS HAVE TO BE TAKEN. E.G., EXTRACTOR FANS, SIPHON, MODIFICATION OF VENTILATION INTAKE, ETC.	
NO SUNSHINE DIRECTLY ON GANTRY. INSULATION HAS TO BE APPLIED TO WINDOW (EX. CURTAIN)	

PLANNING REQUIREMENTS	
EMERGENCY POWER OFF (EPO) BUTTONS ARE REQUIRED IN CONTROL AREA AND AT LEAST ONE LOCATION IN EXAMINATION OR SCAN ROOM.	
DOOR (SAFETY) SWITCHES ARE REQUIRED ON ALL DOORS ACCESSING THE EXAMINATION ROOM IN ACCORDANCE WITH LOCAL CODES.	

EQUIPMENT LEGEND								
NO	DESCRIPTION	SMS SYM	WEIGHT (LBS)	BTU/HR TO AIR	DIMENSIONS (INCHES)			REMARKS
					W	D	H	
1	OPERATING CONSOLE (OPTION)	⊖	79.5	---	47 1/4	36 5/8	29 3/4	1200mm
2	23" FLAT SCREEN CONTROL MONITOR, KEYBOARD AND CONTROL DEVICE	⊖	20	---	22 1/2	9 1/4	19 3/8	
3	SOMATOM GO.TOP GANTRY WITH INJECTOR ARM (OPTION)	⊖	2,855	24,226	87 1/8	32 3/4	79	
4	PATIENT TABLE - VARIO 1	⊖	756	1,024	97 1/16	25 5/8	21 13/16	MAX. HEIGHT 38"
5	WIRELESS ACCESS POINT (OPTION)	⊖	2.5	---	---	---	---	HEIGHT OFF FF: > 6'-6 3/4"
6	EATON SURGE PROTECTIVE DEVICE PANEL (OPTION)	⊖	13.5	---	7 1/2	6 11/16	12	WALL MOUNTED
7	MEDRAD DISPLAY CONTROL UNIT/BASE UNIT (OPTION)	⊖	---	---	---	---	---	BASE UNIT CAN BE PLACED UNDER COUNTER
8	GANTRY MOUNT MEDRAD INJECTOR (OPTION)	⊖	---	---	---	---	---	SEE MFG SPECIFICATIONS
9	CARE VISION DUAL MONITOR (OPTION)	⊖	122	---	---	---	---	CEILING MOUNTED



Project Milestones To Be Completed Before Equipment Delivery	Reference Sheet
Lead shielding (walls, doors, windows) complete	A-102
Climate control functioning 24 hours a day, 7 days a week	A-101
Delivery path verified	A-101
Casework complete in exam and control rooms	A-101
Floor levelness verified and within specifications	S-501
Floor thickness verified and within specifications	S-501
All conduits, troughs, and core drills are outside of the No Core Drill areas	E-102
Carevision anchor plate installed (if applicable)	S-102
Overhead injector support structure and plate installed (if applicable)	S-102
Ceiling height verified (check min. height with options)	S-102
Cables runs checked to ensure maximum length is not exceeded	E-101
Cables inlets installed at locations per plans	E-102
Main panel and breakers installed	E-102
Contractor supplied electrical cabling and pigtails installed	E-102
Contractor supplied EPO's installed and functioning	E-102
Contractor supplied X-Ray warning light and wiring installed	E-501
Outdoor chiller unit and service switch installed (water/air option) (if applicable)	M-101
Indoor chiller unit installed (water/air option) (if applicable)	M-101
Water lines flushed and pressure tested (for hard-piping only) (if applicable)	M-101
Additional fittings/adapters ordered for hard piping (water/air option) (if applicable)	M-101
Vertical distance between indoor and outdoor unit verified (water/air option) (if applicable)	A-101
Extension cables installed for chiller if standard distance exceeded between indoor and outdoor units (water/air option) (if applicable)	M-101
Facility water verified to meet equipment requirements (Facility supplied water option) (if applicable)	M-101
Room lighting complete and functioning	A-101
All rooms containing Siemens equipment are clean and dust free	A-101
Network addresses obtained for Siemens Remote Services (SRS)	A-102

FINISHED ROOM HEIGHT	
FOR CT GANTRY ONLY	MINIMUM 6'-10 11/16"
FOR CT GANTRY WITH GANTRY ARM	MINIMUM 7'-6 9/16"
CAREVISION MONITOR/CEILING MOUNT	SEE DETAIL ON S-102 SHEET

ARCHITECTURAL NOTES

- 1) ALL PRELIMINARY EQUIPMENT LAYOUTS SUBMITTED BY SIEMENS HEALTHCARE ARE BASED ON THE RECOMMENDED SPACE NECESSARY FOR THE OPERATION AND SERVICEABILITY OF THE EQUIPMENT BEING PROPOSED. SIEMENS WILL NOT SUBMIT AN EQUIPMENT LAYOUT THAT IS NOT IN THE BEST INTEREST OF BOTH THE CUSTOMER AND SIEMENS. ALL EQUIPMENT LAYOUTS ARE BASED EITHER ON AN ACTUAL SITE SURVEY OR ARCHITECTURAL DRAWINGS SUPPLIED TO SIEMENS. SIEMENS WILL NOT BE RESPONSIBLE FOR ANY ALTERATIONS THAT ENCROACH ON DESIGNATED SAFETY AND SERVICE CLEARANCE ZONES AS INDICATED ON DRAWINGS (I.E., PIPE CHASES, VENTILATION DUCTS, CASEWORK, AND SOFFITS, ETC.) MADE BY THE CUSTOMER OR REQUIRED BY A CUSTOMER'S ARCHITECTURAL FIRM ONCE PRELIMINARY DRAWINGS HAVE BEEN SUBMITTED AND APPROVED. DO NOT ALTER ANY SPECIFICATIONS AND/OR DIMENSIONS WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SIEMENS PROJECT MANAGER.
- 2) SIEMENS HEALTHCARE IS NOT AN ARCHITECTURAL OR ENGINEERING FIRM. DRAWINGS SUPPLIED BY SIEMENS ARE NOT CONSTRUCTION DRAWINGS. THEREFORE, THESE DRAWINGS ARE TO BE USED ONLY FOR INFORMATION TO COMPLEMENT ACTUAL CONSTRUCTION DRAWINGS AVAILABLE FROM A CUSTOMER APPOINTED ARCHITECTURAL REPRESENTATIVE OR A CUSTOMER'S ENGINEERING DESIGN GROUP. THE CUSTOMER'S ARCHITECT AND GENERAL CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE CODES AND PROFESSIONAL DESIGN REQUIREMENTS INCLUDING OSHA/NEC SAFETY CLEARANCE REQUIREMENTS IN ADDITION TO SIEMENS-REQUIRED SAFETY/SERVICE CLEARANCES SHOWN.
- 3) THE CUSTOMER IS RESPONSIBLE FOR ALL ROOM AND AREA PREPARATION COSTS, PROFESSIONAL FEES, PERMITS, REPORTS, AND INSPECTION FEES.
- 4) EQUIPMENT WARRANTIES, EXPRESSED OR IMPLIED ON THE PART OF SIEMENS SHALL BE CONTINGENT UPON STRICT COMPLIANCE WITH THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL AND RECOMMENDATIONS AND REQUIREMENTS CONTAINED IN THESE DRAWINGS, UNLESS SPECIFIED OTHERWISE.
- 5) ALL DIMENSIONS SHOWN ARE FROM FINISHED SURFACES UNLESS SPECIFIED OTHERWISE.
- 6) THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST. ACTUAL PROTECTION REQUIREMENTS SHALL BE SPECIFIED BY A REGISTERED RADIATION PHYSICIST AT CUSTOMER'S ENGAGEMENT AND EXPENSE. RESPONSIBILITY FOR ALL INFORMATION AS TO THE ROOM LOCATION, USE, AND NUMBER OF ANTICIPATED EXAMINATIONS TO BE PERFORMED DURING THE PERIOD SHALL BE PROVIDED TO THE PHYSICIST BY THE CUSTOMER. THE CUSTOMER SHALL FURTHER TAKE ALL RESPONSIBILITY IN THE COMMUNICATION AND COORDINATION OF ACTIVITIES OF THE RADIATION PHYSICIST AND THE ARCHITECTURAL REPRESENTATIVE.
- 7) SIEMENS HEALTHCARE SHALL BE RESPONSIBLE FOR SIEMENS EQUIPMENT INSTALLATION, CALIBRATION, CONNECTION AND INSTALLATION OF SIEMENS PROVIDED CABLES. THE CUSTOMER/ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR TERMINATIONS OF CUSTOMER/ELECTRICAL CONTRACTOR-SUPPLIED CABLES TO SIEMENS EQUIPMENT. IN THE EVENT THAT SPECIFIC TRADE RULES OR LICENSE REQUIREMENTS PROHIBIT THIS, THE CUSTOMER SHALL INITIATE THE SERVICES OF APPROVED OTHER CONTRACTORS AND PAY FOR SELECTED, APPROVED PARTIES TO PERFORM THIS WORK WITH SUPERVISION PROVIDED BY SIEMENS. CALIBRATION WHEN ACCOMPLISHED OUTSIDE OF NORMAL INSTALLATION SEQUENCES DUE TO CONTRACTOR OR TRADE RULE ACTIONS OR REQUIREMENTS SHALL BE SUPPORTED BY, CHARGED TO, AND ACCEPTED BY THE CUSTOMER AS AN ADDITIONAL INSTALLATION EXPENSE.
- 8) THE CUSTOMER SHALL COORDINATE WITH SIEMENS PROJECT MANAGER THE LOCATION AND TRAVEL OF ALL ANCILLARY EQUIPMENT TO BE CEILING OR WALL MOUNTED (I.E., O.R. LIGHTS, MEDICAL GAS COLUMNS, PHYSIOLOGICAL MONITORING INJECTORS, CRT PLATFORMS, SPRINKLER HEADS, SMOKE DETECTORS, ELECTRICAL OUTLETS, HVAC GRILLES, SPEAKERS, AND GENERAL ROOM LIGHTING, ETC.).
- 9) THE GENERAL CONTRACTOR/CUSTOMER SHALL BE RESPONSIBLE FOR ALL FINAL PAINT, TOUCH-UP AND ANY COSMETIC OR TRIM WORK WHICH NEEDS TO BE OR IS REQUIRED TO BE COMPLETED AFTER THE INSTALLATION OF THE SIEMENS EQUIPMENT AND ANY ASSOCIATED SUPPORT APPARATUS.
- 10) CUSTOMER/CONTRACTOR MUST ASSIST SIEMENS INSTALLERS WITH INSTALLATION OF EQUIPMENT ABOVE 14'-0". REFER TO THE ELECTRICAL NOTES ON SIEMENS SHEET E-101 FOR MORE DETAILS.

CASEWORK & ACCESSORY NOTES

- 1) ALL CASEWORK IS EITHER EXISTING OR IS TO BE DESIGNED, DETAILED, FURNISHED AND INSTALLED BY THE CUSTOMER AND/OR CONTRACTOR. FOLLOW DESIGN RECOMMENDATIONS INCLUDED HEREWITH, AS THEY ARE ESSENTIAL FOR THE SUCCESSFUL INSTALLATION & OPERATION OF THE SIEMENS EQUIPMENT.
- 2) THE SOUND SYSTEM AND INTERCOM BETWEEN THE EXAMINATION AND CONTROL ROOMS ARE TO BE LOCATED, FURNISHED AND INSTALLED BY THE CUSTOMER/CONTRACTOR.
- 3) ALL FURNITURE (CHAIRS, ETC.) FOR THE CONTROL ROOM ARE TO BE PROVIDED BY THE CUSTOMER.

STATE AGENCY REVIEW

PRIOR TO SIEMENS EQUIPMENT INSTALLATION, APPROVAL OF CONSTRUCTION OR STRUCTURAL MODIFICATIONS UTILIZING X-RAY FOR DIAGNOSTIC OR THERAPEUTIC PURPOSES, MUST BE OBTAINED BY THE CUSTOMER FROM THE APPROPRIATE STATE AGENCY, IF APPLICABLE.

RESOURCE LIST (SMS USE ONLY)		
DESIGNATION	PG NUMBER	DATE
SOMATOM GO	C2-081.891.01.16.02	11.20
COMMON CT	CT00-000.891.04.21.02	07.21
COMMON CT OPTIONS	CT00-000.891.03.48.02	09.21

ATTENTION:

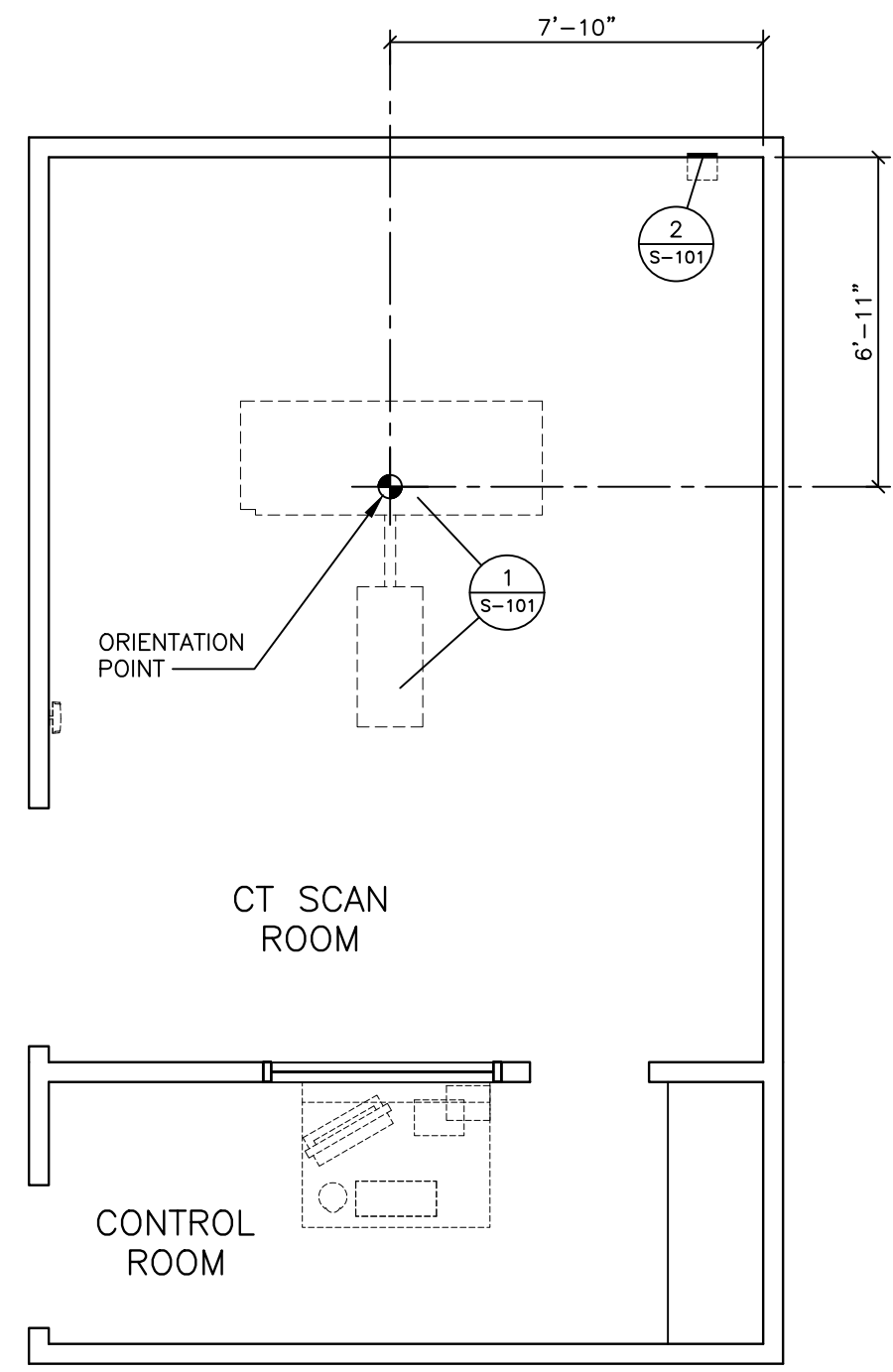
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 - THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.
 - THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

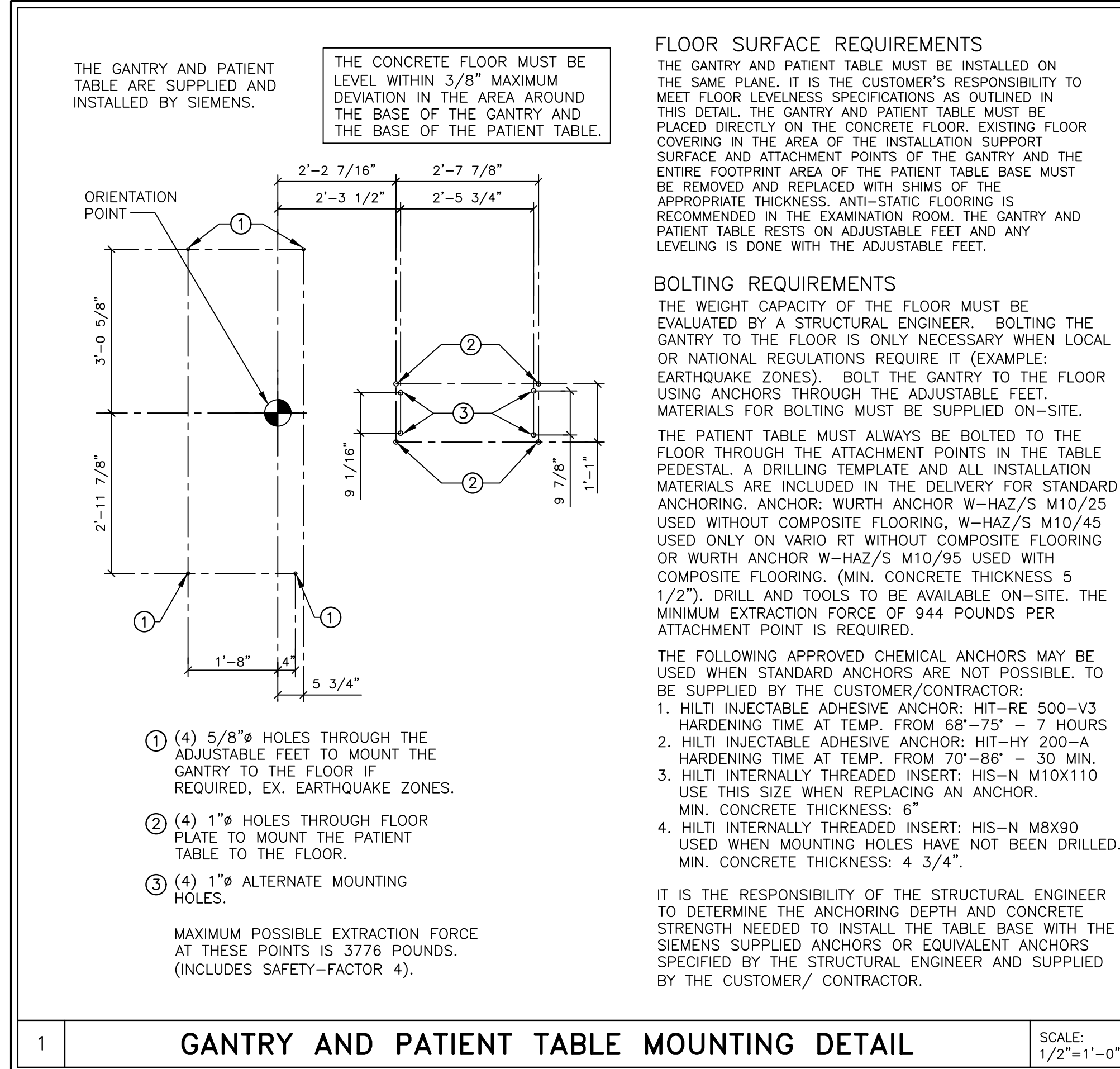
		SOMATOM GO.TOP TYPICAL FINAL DRAWING SET	
THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.		PROJECT #: 18068	
SHEET: A-101		SHEET 1 OF 5 DRAWN BY: L. BACH	
ALL RIGHTS ARE RESERVED.		DATE:	
SCALE: AS NOTED		REF. #:	
-ISSUE BLOCK-			

NOTE: FOR THE WEIGHTS OF ALL SIEMENS EQUIPMENT SHOWN ON THIS PLAN, SEE THE "EQUIPMENT LEGEND" ON SHEET A-101.

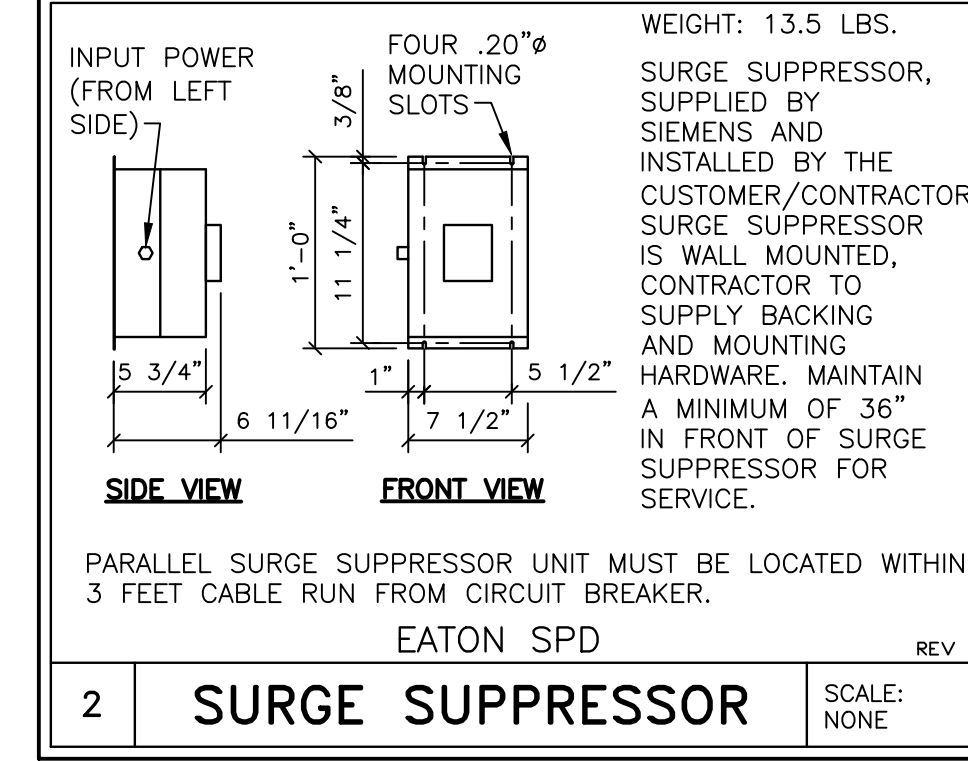
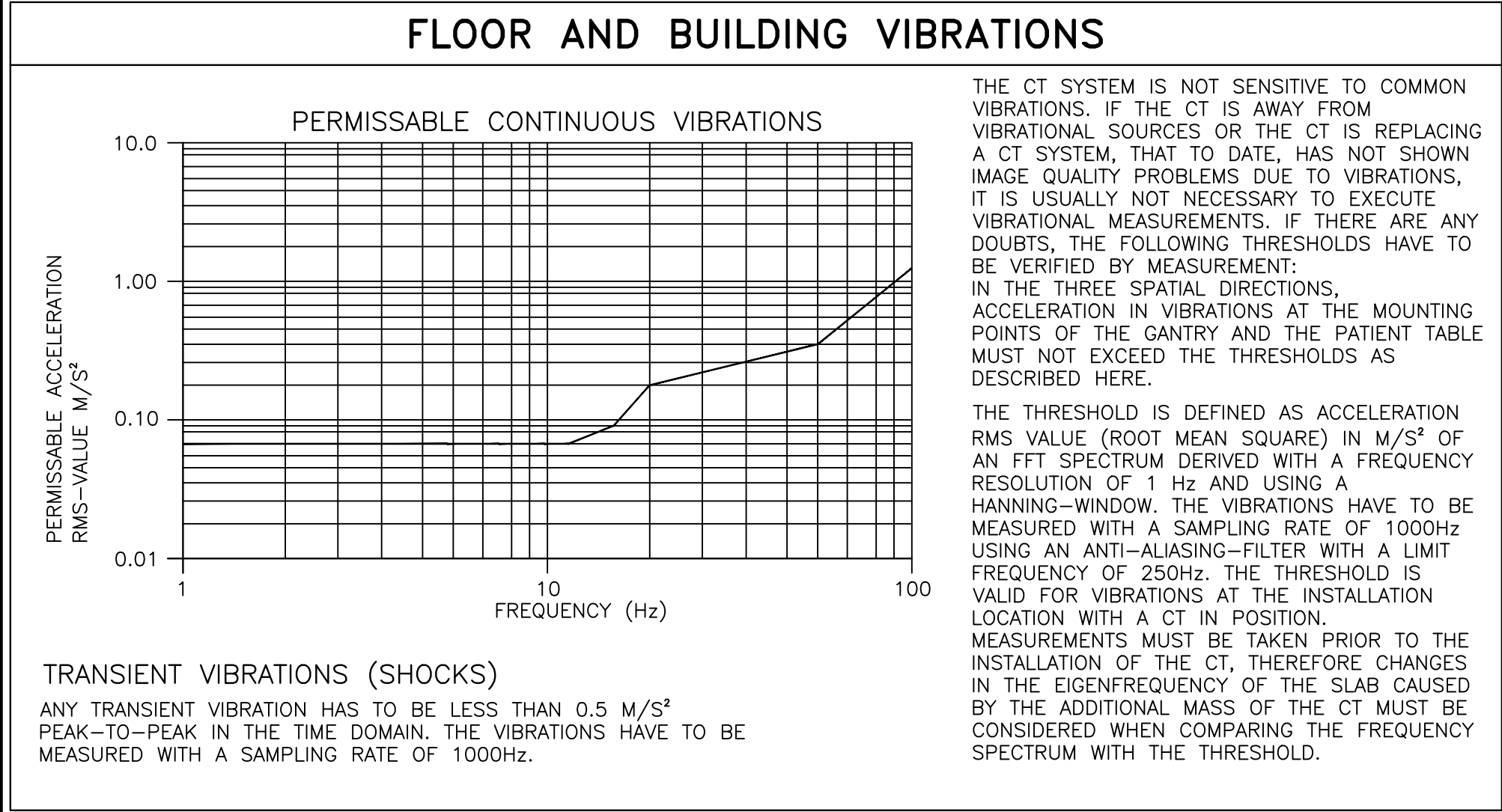


STRUCTURAL FLOOR PLAN

SCALE: 1/4" = 1'-0"



- STRUCTURAL NOTES**
- 1) THE CUSTOMER/CONTRACTOR SHALL FURNISH AND INSTALL ALL STRUCTURAL SUPPORT MEMBERS AND NEEDED HARDWARE FOR THE INSTALLATION OF THE SIEMENS EQUIPMENT.
 - 2) THE OVERHEAD STRUCTURAL SUPPORT SYSTEM SHALL BE FIXED, RIGID AND BRACED FOR SWAY.
 - 3) ALL STRUCTURAL SUPPORT MEMBERS SHALL BE TRUE, SQUARE, LEVEL, PARALLEL AND COPLANAR WITH RESPECT TO EACH OTHER, WITH A HORIZONTAL STRUCTURAL SUPPORT MEMBER TO BE LOCATED AND SET WITH A TRANSIT.
 - 4) ALL STRUCTURAL SUPPORT DETAILS SHOWN ARE SAMPLE DETAILS BASED UPON TYPICAL AND STANDARD BUILDING PRACTICES AND ARE NOT INTENDED AS ACTUAL CONSTRUCTION DETAILS. ALL CONSTRUCTION DETAILS AND SUPPORT CALCULATIONS SHALL BE PREPARED BY A PROFESSIONAL STRUCTURAL ENGINEER AT THE CUSTOMER'S EXPENSE. IN THE EVENT AN EXISTING SUPPORT SYSTEM IS TO BE USED, IT WILL BE THE CUSTOMER'S RESPONSIBILITY TO VERIFY THE INTEGRITY OF THAT SYSTEM.
 - 5) MOUNTING PLATES, FRAMES, AND HARDWARE SUPPLIED BY SIEMENS AS DETAILED IN THIS DRAWING SET ARE INSTALLED BY SIEMENS UNLESS OTHERWISE REQUIRED. ANY DEVIATION FROM THE PROVIDED MATERIALS OR MOUNTING METHODS MUST BE DESIGNED AND DOCUMENTED BY THE STRUCTURAL ENGINEER OF RECORD. ALTERNATE MOUNTING MATERIALS (I.E. ANCHORS, THREADED ROD, BACKING PLATES, ETC.) MUST BE SUPPLIED BY THE CUSTOMER/CONTRACTOR. SIEMENS MAY REQUIRE ASSISTANCE FROM THE CUSTOMER/CONTRACTOR WITH INSTALLATION WHEN UTILIZING ALTERNATE MOUNTING MATERIALS.
 - 6) ALL CEILING FIXTURES (I.E. AIR SUPPLY GRILLES, AIR RETURN GRILLES, EXHAUST GRILLES, SPRINKLER HEADS, INCANDESCENT AND FLUORESCENT LIGHT FIXTURES, INTERCOM SPEAKERS, MEDICAL GAS COLUMNS, ETC.) SHALL BE INSTALLED FLUSH MOUNTED WITH THE FINISHED CEILING TO PROVIDE FREE AND UNRESTRICTED TRAVEL OF THE SMS CEILING MOUNTED EQUIPMENT.
 - 7) THE BOTTOM SIDE OF THE UNISTRUT CEILING GRID AND ANY CEILING MOUNTED SUPPORT PLATES ARE TO BE INSTALLED FLUSH WITH THE FINISHED CEILING. THE CUSTOMER/CONTRACTOR SHALL ALSO PROVIDE COVERSTRIPS FOR THE UNISTRUT.
 - 8) THE STRUCTURAL PLANNING AS SHOWN ON THE 1/4" STRUCTURAL PLAN HAS BEEN COORDINATED WITH THE EQUIPMENT LOCATION AS SHOWN ON THE 1/4" EQUIPMENT LAYOUT PLAN. FOR THIS REASON, ANY DEVIATIONS FROM THE STRUCTURAL PLANNING AS SHOWN MUST BE APPROVED BY SMS PLANNING DEPARTMENT.
 - 9) THE STRUCTURAL ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR THE DESIGN AND DETAIL OF FLOOR, WALL, AND CEILING STRUCTURES IN ACCORDANCE WITH THE STRUCTURAL INFORMATION SHOWN, AND LOCAL GOVERNING BUILDING CODES.
 - 10) ALL ANCHORS, SUPPORTS AND BRACES FOR SECURING THE SIEMENS EQUIPMENT ON THE UNDERSIDE OF THE CONCRETE SLAB (WHETHER SUPPLIED BY SIEMENS OR CONTRACTOR) SHALL BE SECURED IN A MANNER TO PREVENT THEM FROM FALLING DURING A DE-INSTALLATION. ALL WORK FOR SECURING THESE MOUNTS SHALL BE BY THE CONTRACTOR.



FLOOR LOADING

DESCRIPTION				
F STAT MAX	STATIC FLOOR LOAD DUE TO GANTRY'S OWN WEIGHT			
AMPLITUDE F DYN	DIFFERENCE BETWEEN MINIMUM AND MAXIMUM FLOOR LOADING DURING GANTRY ROTATION			
TABLE OF PARAMETERS				
GANTRY MEASUREMENT POINTS	F STAT MAX (POUNDS)	AMPLITUDE FOR F DYN (POUNDS)	SUPPORT SURFACE	DIAMETER
(A)	598	+/- 67	2 1/2 IN ²	2 1/8 IN
(B)	710	+/- 67		
(C)	996	+/- 67		
(D)	607	+/- 67		

THE FLOOR STRUCTURE MUST WITHSTAND THE OCCUPIED WEIGHT OF THE GANTRY AND THE INDIVIDUAL CONTACT LOADING AREA. DURING GANTRY INSTALLATION AND LEVELING, THE MAXIMUM POSSIBLE LOAD ON ONE GANTRY FOOT IS 1745 POUNDS (WITH THE GANTRY STANDING ON TWO DIAGONAL FEET).

TOTAL STATIC LOAD, RESULTING IN THE CENTER OF GRAVITY OF THE GANTRY: 2911 POUNDS.

FINISHED ROOM HEIGHT

FOR CT GANTRY ONLY	MINIMUM 6'-10 11/16"
FOR CT GANTRY WITH GANTRY ARM	MINIMUM 7'-6 9/16"
CAREVISION MONITOR/CEILING MOUNT	SEE DETAIL ON S-102 SHEET

SIEMENS

SOMATOM GO.TOP
TYPICAL FINAL DRAWING SET

THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.

PROJECT #: **18068**

SHEET: **S-101**

ALL RIGHTS ARE RESERVED.

SCALE: AS NOTED REF. #:

DATE: SHEET 2 OF 5 DRAWN BY: L. BACH

SYMBOL: N/A TYPICAL REV 15

ISSUE BLOCK

ATTENTION:

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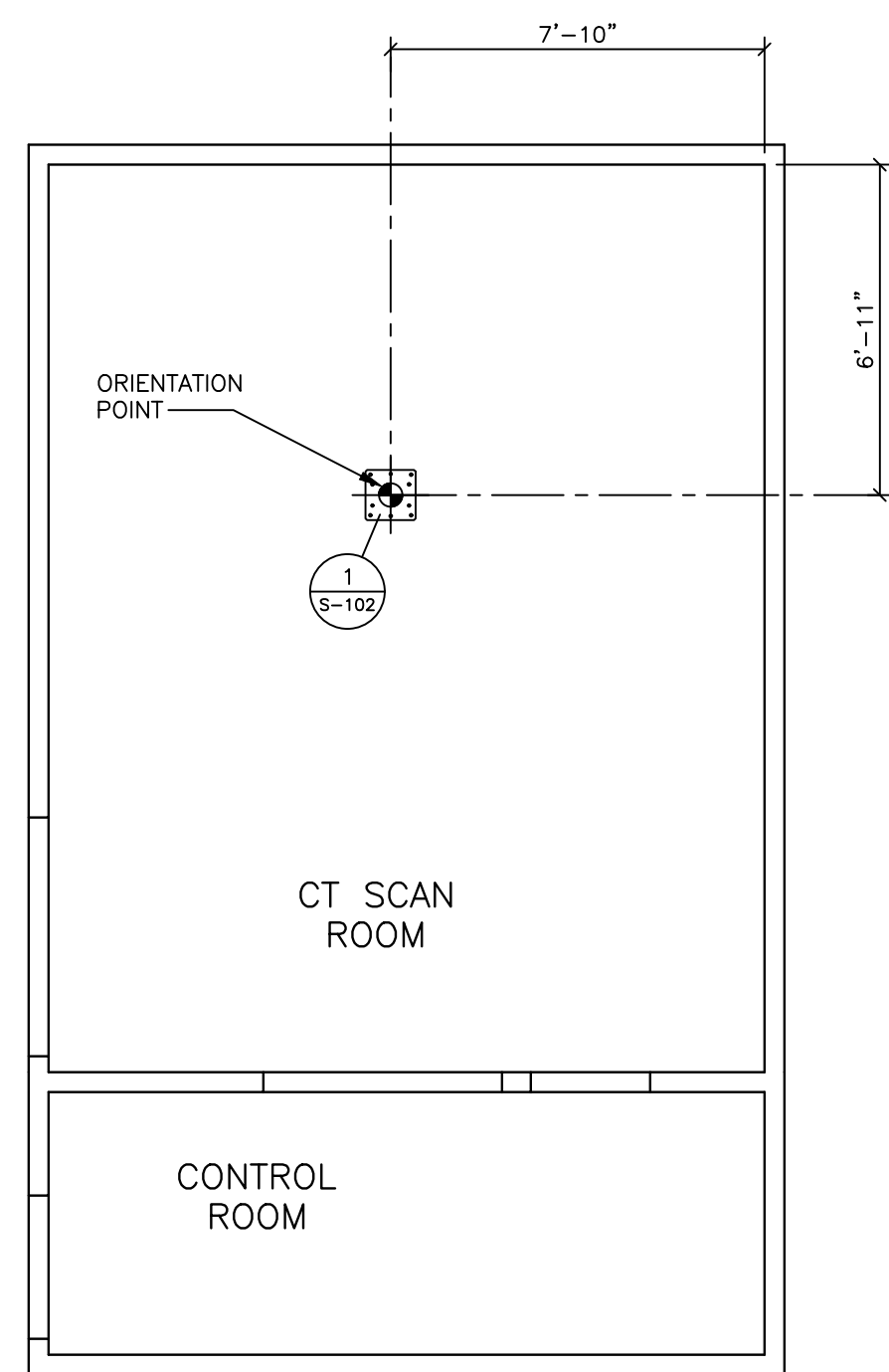
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GO-TOP REV 15

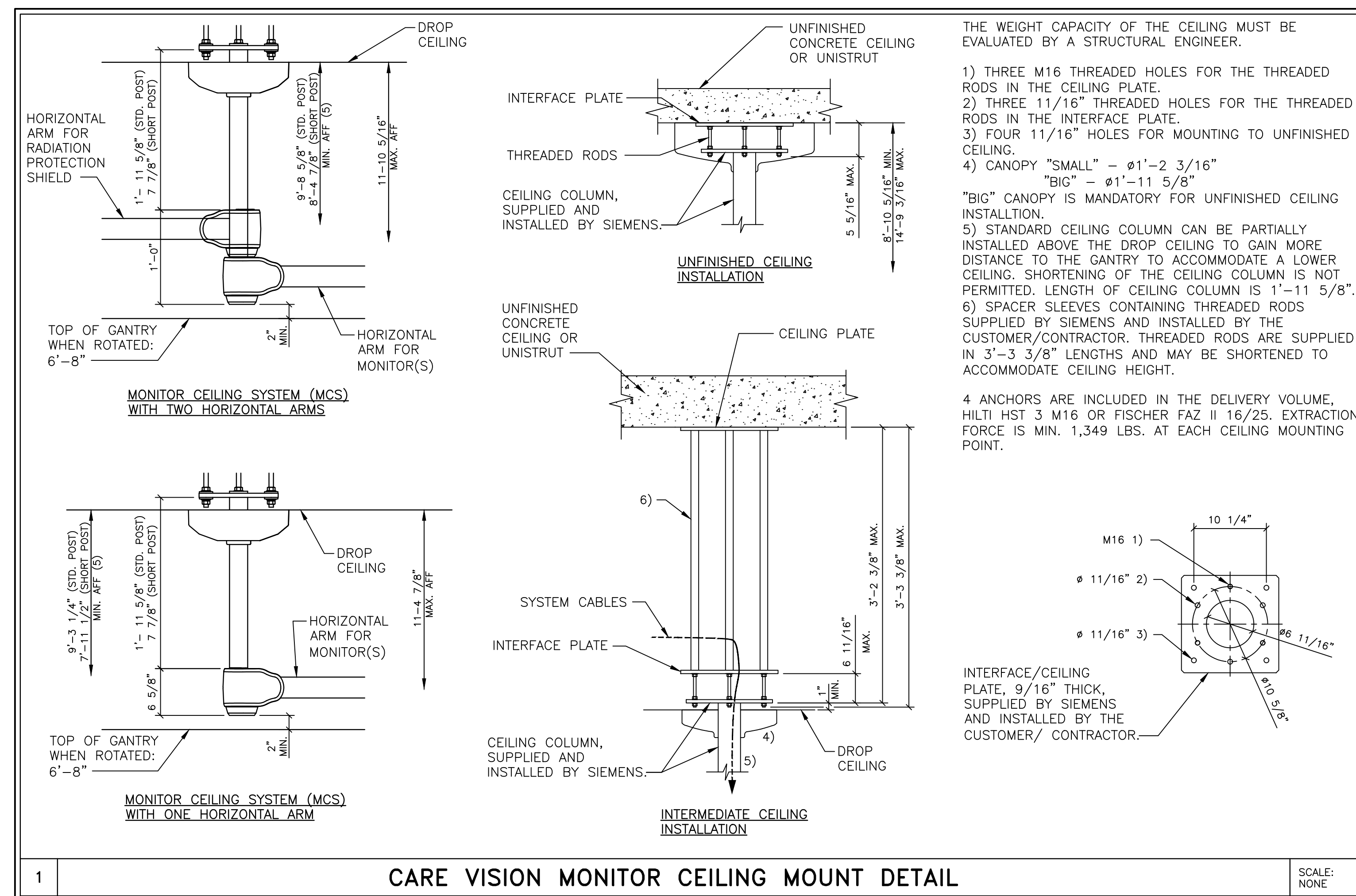
REFERENCE DOCUMENT - NOT FOR CONSTRUCTION

NOTE: FOR THE WEIGHTS OF ALL SIEMENS EQUIPMENT SHOWN ON THIS PLAN, SEE THE "EQUIPMENT LEGEND" ON SHEET A-101.



STRUCTURAL CEILING PLAN

SCALE: 1/4" = 1'-0"



FINISHED ROOM HEIGHT	
FOR CT GANTRY ONLY	MINIMUM 6'-10 11/16"
FOR CT GANTRY WITH GANTRY ARM	MINIMUM 7'-6 9/16"
CAREVISION MONITOR/CEILING MOUNT	SEE DETAIL ON S-102 SHEET

SYM	DATE	DESCRIPTION
△	N/A	TYPICAL REV 15

SIEMENS

SOMATOM GO.TOP
TYPICAL FINAL DRAWING SET

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PROJECT #: **18068** SHEET: **S-102**

ALL RIGHTS ARE RESERVED.

SHEET 3 OF 5 DRAWN BY: L. BACH

DATE: _____

SCALE: AS NOTED REF. #:

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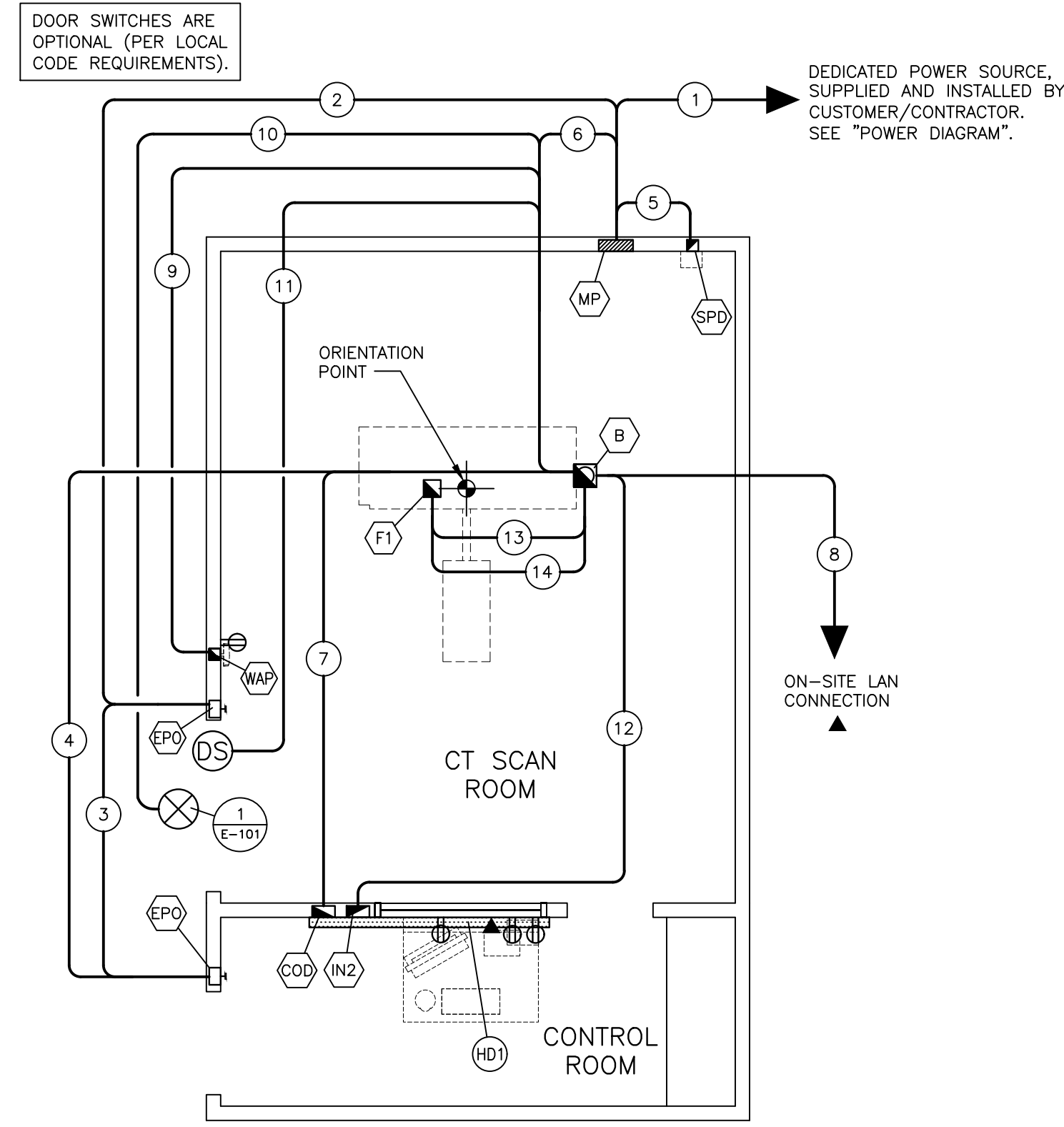
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-ISSUE BLOCK-

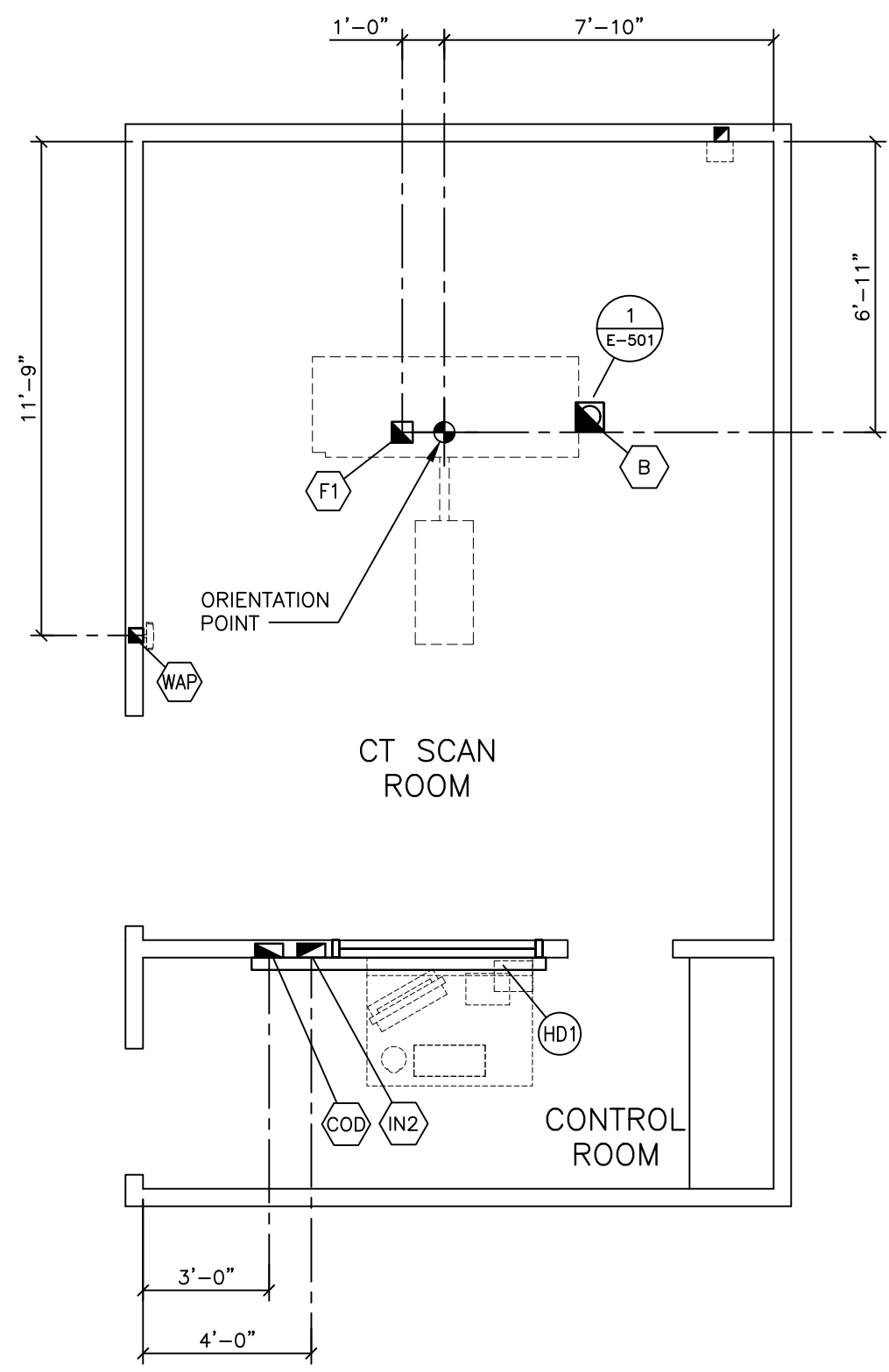
GO-TOP
REV 15

REFERENCE DOCUMENT - NOT FOR CONSTRUCTION



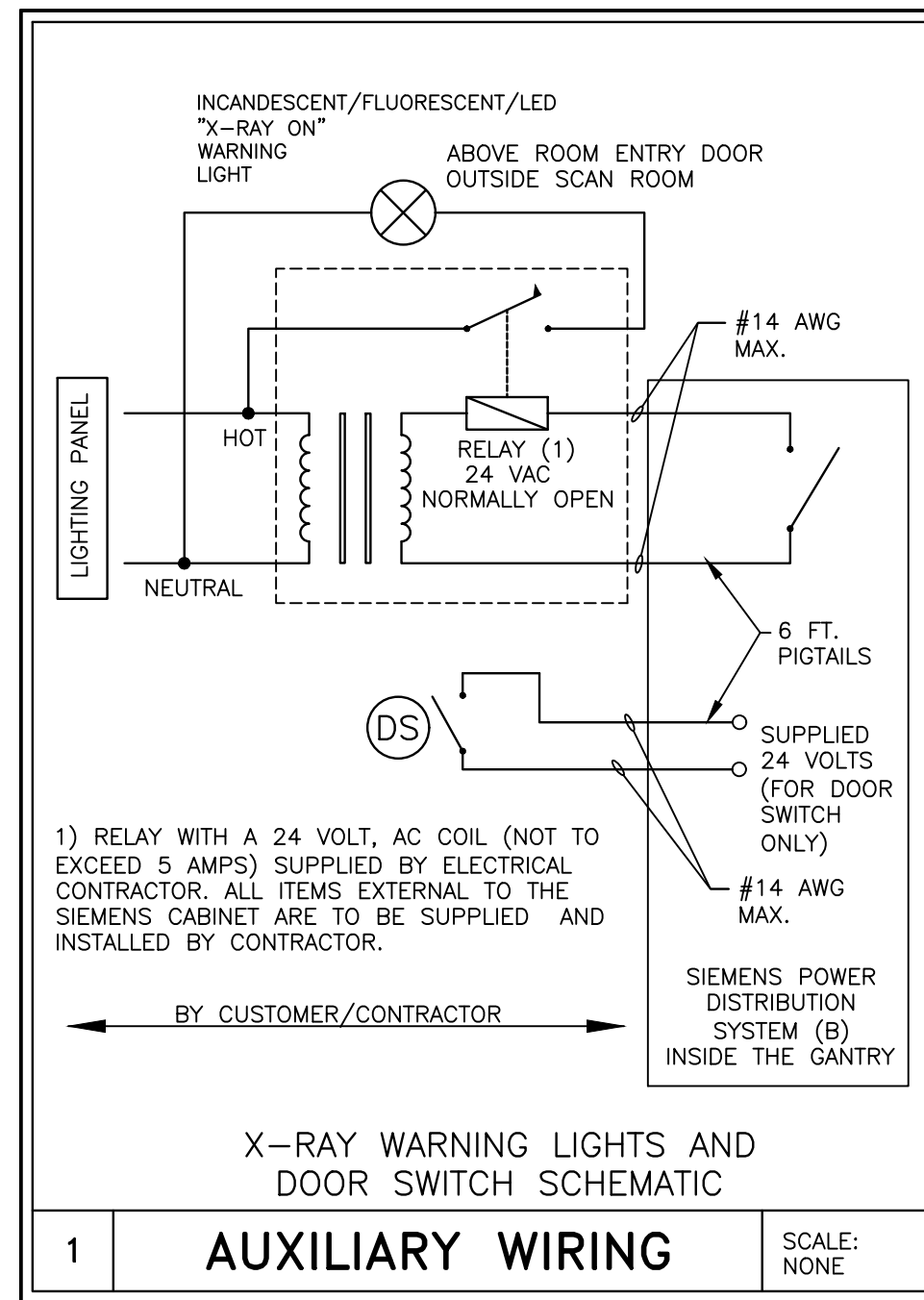
ELECTRICAL RACEWAY PLAN

SCALE: 1/4" = 1'-0"



ELECTRICAL DIMENSION PLAN

SCALE: 1/4" = 1'-0"



POWER REQUIREMENTS

SYSTEM	SUPPLY VOLTAGE (VOLTS)	POWER CONSUMPTION (kVA)	SUPPLY IMPEDANCE (mΩ)	MAIN CIRCUIT BREAKER (AMPS)
GANTRY WITH PATIENT TABLE	3φ 480/277V ±10%	SEE BELOW	≤ 300	125

POWER CONSUMPTION OF GANTRY WITH PATIENT TABLE
 OPERATING FOR 4 SEC. ≤ 115 kVA
 OPERATING FOR 10 SEC. ≤ 100 kVA
 OPERATING FOR 30 SEC. ≤ 75 kVA
 OPERATING FOR 50 SEC. ≤ 63 kVA
 OPERATING FOR 100 SEC. ≤ 40 kVA
 STAND-BY -- ≤ 3 kVA

IF AN ON-SITE TRANSFORMER IS REQUIRED TO OBTAIN CT OPERATING VOLTAGE, IT MUST BE OF SUFFICIENT CAPACITY AND CHARACTERISTICS TO MAINTAIN SUPPLY VOLTAGE AND IMPEDANCE REQUIREMENTS (TRANSFORMER AND CONDUCTORS).

DO NOT CONNECT ANY EXTERNAL USERS TO THE CT POWER LINES.

THE EXAMINATION ROOM SHOULD BE EQUIPPED WITH AT LEAST ONE EMERGENCY POWER OFF (PANIC) BUTTON.

SYMBOLS
ALL MAY NOT APPLY

[Symbol]	MAIN PANEL OR ENCLOSURE BY CUSTOMER/CONTRACTOR
[Symbol]	OPENING IN RACEWAY OR TRENCH/DUCT
[Symbol]	PULLBOX IN (FLOOR/WALL/CEILING)
[Symbol]	OPENING IN ACCESS FLOORING
[Symbol]	WARNING LIGHT (X-RAY ON)
[Symbol]	DOOR SAFETY SWITCH (EPO) EMERGENCY POWER OFF BUTTON
[Symbol]	TRENCH/DUCT
[Symbol]	CEILING DUCT
[Symbol]	UNDER FLOOR DUCT
[Symbol]	SURFACE DUCT
[Symbol]	VERTICAL DUCT
[Symbol]	ETHERNET CONNECTION TO CUSTOMER'S INFORMATION SYSTEMS NETWORK (VERIFY WITH SMS PROJECT MANAGER).
[Symbol]	110 VOLT, 20 AMP, HOSPITAL GRADE DUPLEX OUTLET UNLESS OTHERWISE STATED.
[Symbol]	110 VOLT, 20 AMP, HOSPITAL GRADE QUAD OUTLET
[Symbol]	SPECIAL PURPOSE RECEPTACLE

ELECTRICAL LEGEND

SYM	SIZE	DESCRIPTION	REMARKS
(B)	AS REQUIRED	SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR	GANTRY CABLE ACCESS
(12)	AS REQUIRED	PULL BOX MOUNTED BELOW FLOOR SLAB WITH A 5" CONDUIT RUNNING THROUGH THE FLOOR SLAB ENDING FLUSH WITH THE FINISHED FLOOR IN SHOWN LOCATION.	
(13)	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT THE FLOOR LINE IN CONTROL AREA IN SHOWN LOCATION PROVIDED WITH 3" OPENING IN FINISHED COVER.	
(14)	---	EMERGENCY POWER OFF BUTTON. EXACT LOCATIONS TO BE DETERMINED BY CUSTOMER/CONTRACTOR.	SEE POWER SCHEDULE
(F1)	AS REQUIRED	PULL BOX MOUNTED ABOVE FINISHED CEILING.	CARE VISION MONITOR CEILING MOUNT
(10)	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOORLINE. THERE SHOULD ALSO BE AN ETHERNET CONNECTION AND (2) OUTLETS LOCATED NEAR THE PULL BOX TO SUPPLY 110/220 VAC.	INJECTOR CONTROL
(MP)	---	MAIN PANEL WITH MAIN BREAKER. EXACT LOCATION DETERMINED BY CUSTOMER/CONTRACTOR.	SEE POWER SCHEDULE.
(15)	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL PROVIDED WITH 2" OPENING IN FINISHED COVER. THE SURGE PROTECTIVE DEVICE MUST BE LOCATED WITHIN 3 FEET CABLE RUN FROM CIRCUIT BREAKER, AT HEIGHT DETERMINED BY CUSTOMER/CONTRACTOR.	SEE DETAIL S-101
(16)	8" x 8" x 4"	ELECTRICAL DUCT RUN HORIZONTALLY ON THE WALL AT THE FLOOR LINE AND SURFACE MOUNTED ON FINISHED WALL AS SHOWN FOR EXCESS CABLE STORAGE. LENGTH: 7'-0".	WIRELESS ACCESS POINT
(17)	6" x 3-1/2"	ELECTRICAL DUCT RUN HORIZONTALLY ON THE WALL AT THE FLOOR LINE AND SURFACE MOUNTED ON FINISHED WALL AS SHOWN FOR EXCESS CABLE STORAGE. LENGTH: 7'-0".	RACEWAY
(1)	AS REQUIRED	CONDUIT FROM POWER SOURCE TO "MP" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(2)	AS REQUIRED	CONDUIT FROM "MP" TO "EPO" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(3)	AS REQUIRED	CONDUIT FROM "EPO" TO "EPO" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(4)	AS REQUIRED	CONDUIT FROM "EPO" TO "B" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(5)	AS REQUIRED	CONDUIT FROM "MP" TO "SPD" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(6)	AS REQUIRED	CONDUIT FROM "MP" TO "B".	SEE POWER SCHEDULE
(7)	3"φ	CONDUIT FROM "B" TO "COD".	MAX. CONDUIT LENGTH 82'-0"
(8)	1"φ	CONDUIT (IF REQUIRED) FROM "B" TO ON-SITE LAN	MAX. CONDUIT LENGTH 82'-0"
(9)	1"φ	CONDUIT FROM "B" TO "WAP".	MAX. CONDUIT LENGTH 69'-0"
(10)	AS REQUIRED	CONDUIT FROM "B" TO "WARNING LIGHT", SIZED BY ELECTRICAL ENGINEER OF RECORD.	
(11)	AS REQUIRED	CONDUIT FROM "B" TO "DS", SIZED BY ELECTRICAL ENGINEER OF RECORD.	
(12)	2-1/2"φ	CONDUIT FROM "IN2" TO "IN3".	MAX. CONDUIT LENGTH 75'-0"
(13)	2-1/2"φ	CONDUIT FROM "B" TO "F1".	MAX. CONDUIT LENGTH 65'-0"
(14)	2-1/2"φ	CONDUIT FROM "B" TO "F1".	MAX. CONDUIT LENGTH 99'-0"

CONTRACTOR SUPPLIED CABLES

FROM	VIA	TO	DESCRIPTION	REMARKS
POWER SOURCE	1	MP	3-PHASE CONDUCTORS, 1 NEUTRAL, 1 GROUND ALL TO BE THE SAME SIZE. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
MP	2	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
EPO	3	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
EPO	4	B	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
MP	5	SPD	3-PHASE CONDUCTORS, 1 NEUTRAL AND 1 GROUND ALL TO BE THE SAME SIZE. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
MP	6	B	3-PHASE CONDUCTORS, 1 NEUTRAL AND 1 GROUND ALL TO BE THE SAME SIZE. MAX. #2. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
B	10	WARNING LIGHT	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	
B	11	DS	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	

SIEMENS SUPPLIED CABLES

FROM	VIA	TO	DESCRIPTION	REMARKS
B	7	COD	POWER CABLE; W46:300V, DATA CABLE; W48:0V, W050:0V, W51:30V, W60:30V	MAXIMUM LENGTH 88'-0"
B	8	ON-SITE LAN	ETHERNET CABLE	MAXIMUM LENGTH 88'-0"
B	9	WAP	ETHERNET CABLE	MAXIMUM LENGTH 72'-0"
IN2	12	B	MEDRAD INJECTOR CABLE	MAXIMUM LENGTH 100'-0"
B	13	F1	POWER CABLE	MAXIMUM LENGTH 68'-0"
B	14	F1	CONTROL CABLE	MAXIMUM LENGTH 104'-0"

CONDUIT LENGTH CALCULATIONS

IF SITE SPECIFIC CONDITIONS EXCEED THE FOLLOWING ASSUMED VALUES THEN ADDITIONAL LENGTH MUST BE SUBTRACTED BY THE ELECTRICAL CONTRACTOR FROM THE MAXIMUM CONDUIT LENGTHS LISTED.

IF DUCT LOCATIONS ARE ALTERED FROM THE SHOWN LAYOUT IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO RECALCULATE THE MAXIMUM CONDUIT LENGTHS.

ASSUMED VALUES USED IN CALCULATING STATED MAXIMUM CONDUIT LENGTHS:
 VERTICAL DUCTS - 10'-0"
 FLOOR PENETRATIONS - 3'-0"

FINISHED ROOM HEIGHT

FOR CT GANTRY ONLY	MINIMUM 6'-10 11/16"
FOR CT GANTRY WITH GANTRY ARM	MINIMUM 7'-6 9/16"
CAREVISION MONITOR/CEILING MOUNT	SEE DETAIL ON S-102 SHEET

POWER QUALITY

POOR POWER WILL ALTER EQUIPMENT PERFORMANCE

IT IS IN THE CUSTOMER'S INTEREST THAT THE ELECTRICAL CONTRACTOR BE RESPONSIBLE FOR TESTING AND VERIFYING THAT THE EQUIPMENT POWER SUPPLY COMPLIES WITH THE SIEMENS SPECIFICATIONS.

CABLE PROTECTION

CABLES ARE NOT PLENUM RATED. ALL CABLES MUST BE ROUTED IN CABLE DUCTS OR CABLE CONDUITS.

ELECTRICAL NOTES

- COMPLIANCE: ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NECA-70), O.S.H.A. REGULATIONS, AS WELL AS APPLICABLE REGULATIONS OF CITY, COUNTY, STATE AND FEDERAL AGENCIES. PROVIDE MATERIALS AND EQUIPMENT THAT COMPLY WITH ANSI, IEEE AND NEMA STANDARDS AND ARE U.L. LISTED AND LABELED. THE CUSTOMER'S/CONTRACTOR'S WORK AND ALL EQUIPMENT INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE ADOPTED/ENFORCED BY THE AUTHORITY HAVING JURISDICTION.
- QUALITY ASSURANCE: THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD TO INSURE THAT THE NEW WORK WILL FIT INTO THE EXISTING STRUCTURE AS SHOWN ON THE DRAWINGS. SHOULD ANY CONDITIONS EXIST OR BE DISCOVERED THAT PREVENT THE INSTALLATION OF WORK AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO FABRICATION OF EQUIPMENT, OR THE PERFORMANCE OF ANY WORK THAT MAY BE AFFECTED. DO NOT ALTER DRAWINGS, DIMENSIONS, OR SPECIFICATIONS IN ANY WAY WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SIEMENS PROJECT MANAGER. ALL DIMENSIONS ARE FROM FINISHED SURFACES. CONDUIT AND PULL BOXES TO BE INSTALLED BY THE CUSTOMER/CONTRACTOR WITH LOCATIONS BEING FIELD VERIFIED BY THE SIEMENS PROJECT MANAGER.
- POWER SUPPLY SOURCE: POWER SUPPLIES FOR SIEMENS HEALTHCARE EQUIPMENT SHALL BE FROM A MEDICAL IMAGING PANEL OR BUILDING SERVICE EQUIPMENT THAT IS A GROUNDING 3 OR 4-WIRE "WYE" SOURCE PER THE SPECIFIC EQUIPMENT OPERATION REQUIREMENTS. A DEDICATED CIRCUIT SHALL BE PROVIDED THAT IS KEPT ENTIRELY FREE AND INDEPENDENT OF ALL OTHER BUILDING WIRING. NO ELEVATORS, GENERATORS, PUMPS, HVAC OR SIMILAR EQUIPMENT SHALL BE CONNECTED TO THE SAME CIRCUIT OR MEDICAL IMAGING PANEL THAT SERVES THE SIEMENS HEALTHCARE EQUIPMENT. IF THE POWER SUPPLY SOURCE DOES NOT MEET THE SPECIFIC SIEMENS EQUIPMENT POWER REQUIREMENTS, THE CONTRACTOR SHALL PROVIDE THE NECESSARY EQUIPMENT REQUIRED TO ESTABLISH THE POWER SUPPLY IN ACCORDANCE WITH THE REQUIRED POWER SUPPLY PARAMETERS OF THE SIEMENS EQUIPMENT. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE CUSTOMER AND/OR UTILITY COMPANY FIELD REPRESENTATIVE.
- WORK FURNISHED BY CUSTOMER/CONTRACTOR: WORK NOT PROVIDED BY SIEMENS HEALTHCARE BUT SHOWN ON DRAWINGS TO BE FURNISHED AND INSTALLED BY CUSTOMER/CONTRACTOR INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING, UNLESS NOTED OTHERWISE: ELECTRICAL RACEWAYS AND DUCTS, WIRING TROUGH, PULL BOXES, CONDUITS, CIRCUIT BREAKERS, ACCESS PANELS, EMERGENCY OFF BUTTONS, DOOR SWITCHES, WARNING LIGHTS, WIRING, WIRING DEVICES, CONNECTORS, LIGHTING EQUIPMENT AND GROUNDING.
- RACEWAY AND CONDUIT NOTES: ALL CONDUITS SHALL BE INSTALLED IN COMPLIANCE WITH THE CURRENT ENFORCED EDITION OF THE NATIONAL ELECTRICAL CODE. CONDUIT BODIES SHALL NOT BE USED, WHERE A CONDUIT ENTERS A BOX, FITTING, OR OTHER ENCLOSURE, AN INSULATED THROAT CONNECTOR SHALL BE PROVIDED TO PROTECT THE WIRE FROM ABRASION. ALL CONNECTORS FOR EMT SHALL BE COMPRESSION OR DOUBLE SET SCREW TYPE. KEEP RACEWAYS AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF FLUES OR STEAM AND HOT WATER PIPES. INSTALL RACEWAY RUNS ABOVE WATER AND STEAM PIPES PROVIDED THAT CABLE RUN DISTANCES ARE MAINTAINED. USE TEMPORARY CLOSURES TO PREVENT FOREIGN MATTER FROM ENTERING RACEWAY. CONDUIT RUNS ARE SHOWN SCHEMATICALLY. INSTALL CONDUIT WITH A MINIMUM OF BENDS IN THE SHORTEST PRACTICAL DISTANCE CONSIDERING THE BUILDING CONSTRUCTION AND OBSTRUCTIONS, EXCEPT AS OTHERWISE INDICATED. THE CONTRACTOR SHALL MAKE CERTAIN THAT AN CONDUIT/RACEWAY RUNS CONTAINING SIEMENS HEALTHCARE CABLES DO NOT EXCEED THE SPECIFIED MAXIMUM DISTANCES AS SHOWN ON THE ELECTRICAL DETAILS. LISTED CONDUIT SIZES FOR SIEMENS-SUPPLIED CABLES MUST BE MAINTAINED IN ORDER TO ENABLE THE TOTAL CABLE BUNDLE INCLUDING CONNECTORS TO BE PULLED THROUGH WITHOUT DAMAGE. PROVIDE ENCLOSED METAL WIRE DUCT RACEWAY SYSTEM WHERE SHOWN ON DRAWINGS WITH DIVIDERS TO SEPARATE THE DUCT INTO TWO OR THREE SEPARATE COMPARTMENTS AS SHOWN ON THE SIEMENS PLANS (FOR POWER AND SIEMENS HEALTHCARE CABLING). DIVIDERS AND CROSSOVER PIECES TO BE PROVIDED AS NECESSARY. THE CABLE TO CABLE AS WELL AS THE CIRCUIT TO CIRCUIT SEPARATION REQUIREMENT WAS EVALUATED DURING THE UL SYSTEM CERTIFICATION OF THE EQUIPMENT. ADDITIONAL SEPARATION OF THE SYSTEM CABLE ASSEMBLIES INTO SEPARATE OR PARTITIONED RACEWAYS, UNLESS OTHERWISE NOTED, IS NOT NECESSARY TO INSURE SEPARATION OF CIRCUITS. PROVIDE WIRE DUCT/RACEWAY WITH ACCESSIBLE REMOVABLE COVERS. LOCATIONS OF BUILDING MATERIAL OPENINGS (I.E. ACCESS PANELS) TO BE CUT IN FIELD ARE TO BE COORDINATED WITH THE DRAWING REQUIREMENTS AND BUILDING STRUCTURE. THOSE THAT ARE NOT INDICATED OR INTERFERE WITH BUILDING ELEMENTS SHALL BE COORDINATED WITH SIEMENS PROJECT MANAGER. ELECTRICAL PULL BOXES AND RACEWAY COVERS SHALL BE INSTALLED IN A MANNER TO ALLOW ACCESSIBILITY FOR INSTALLATION AND MAINTENANCE. CONTRACTORS MUST PROVIDE PULL STRINGS FOR ALL CONDUIT AND WIRE DUCT/RACEWAY, IN-FLOOR TRENCH DUCT AND FLUSH FLOOR BOXES SHALL BE PROVIDED WITH FULLY GASKETED REMOVABLE COVERS. WHEN JUNCTION BOXES AND WIRE DUCT/RACEWAY ARE MOUNTED HIGHER THAN 14 FEET ABOVE FINISHED FLOOR, THE ELECTRICAL CONTRACTOR SHALL PROVIDE TWO ELECTRICIANS TO HELP THE SIEMENS INSTALLERS PULL SIEMENS SUPPLIED CABLES AT CUSTOMER'S EXPENSE. WHEN JUNCTION BOXES AND WIRE DUCT/RACEWAY ARE MOUNTED ABOVE A HARD CEILING (I.E. SHEET ROCK), A 24" x 24" ACCESS PANEL IS REQUIRED AT EACH JUNCTION BOX AND WITHIN 2 FEET OF EACH RACEWAY TRANSITION (SUCH AS A 90 DEGREE ELBOW OR TEE) IN DUCT/RACEWAY. THERE MUST BE FREE AND CLEAR ACCESS TO JUNCTION BOXES AND WIRE DUCT/RACEWAY. WHEN ACCESS PANELS ARE LOCATED MORE THAN 3 FEET FROM JUNCTION BOXES AND WIRE DUCT/RACEWAY THE ELECTRICAL CONTRACTOR SHALL PROVIDE TWO ELECTRICIANS TO HELP SIEMENS INSTALLERS PULL SIEMENS SUPPLIED CABLES AT CUSTOMER'S EXPENSE.
- WIRING: ALL WIRING INSTALLED SHALL BE 600 VOLT CLASS, STRANDED TYPE THHN/THWN-2, SINGLE CONDUCTOR ANNEALED COPPER FOR A MAXIMUM OPERATING TEMPERATURE OF 90° C (194° F), SIZED AS INDICATED, INSTALLED IN METAL RACEWAYS. THE CUSTOMER/CONTRACTOR SHALL LEAVE A MINIMUM 10 FEET OF WIRE TAILS AT ALL OUTLET POINTS WITH WIRE IDENTIFICATION TAGGED AT BOTH ENDS FOR FINAL CONNECTION BY THE CUSTOMER/ELECTRICAL CONTRACTOR.
- SHORT CIRCUIT REQUIREMENTS: ALL CIRCUIT BREAKERS SUPPLIED FOR THE SIEMENS EQUIPMENT REQUIREMENTS SHALL BE RATED HIGHER THAN THE SHORT CIRCUIT AVAILABLE AT THE TERMINALS OF THE ELECTRICAL EQUIPMENT AS DETERMINED BY THE ENGINEER OF RECORD, BUT NOT LESS THAN 35,000 RMS SYMMETRICAL AT 480V, 3-PHASE, 60 HERTZ. THE CONTRACTOR SHALL OBTAIN THE CORRECT SHORT CIRCUIT CURRENT RATING OF ALL THE NEW EQUIPMENT FOR INSTALLATION FROM THE ENGINEER OF RECORD.

SIEMENS SOMATOM GO.TOP
TYPICAL FINAL DRAWING SET

THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW. ALL RIGHTS ARE RESERVED.

PROJECT #: **18068** SHEET: **E-101**

SHEET 4 OF 5 DRAWN BY: L. BACH

DATE: _____

SCALE: AS NOTED REF. #:

SYMBOL: N/A TYPICAL REV 15

ISSUE BLOCK

ATTENTION:

- THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.

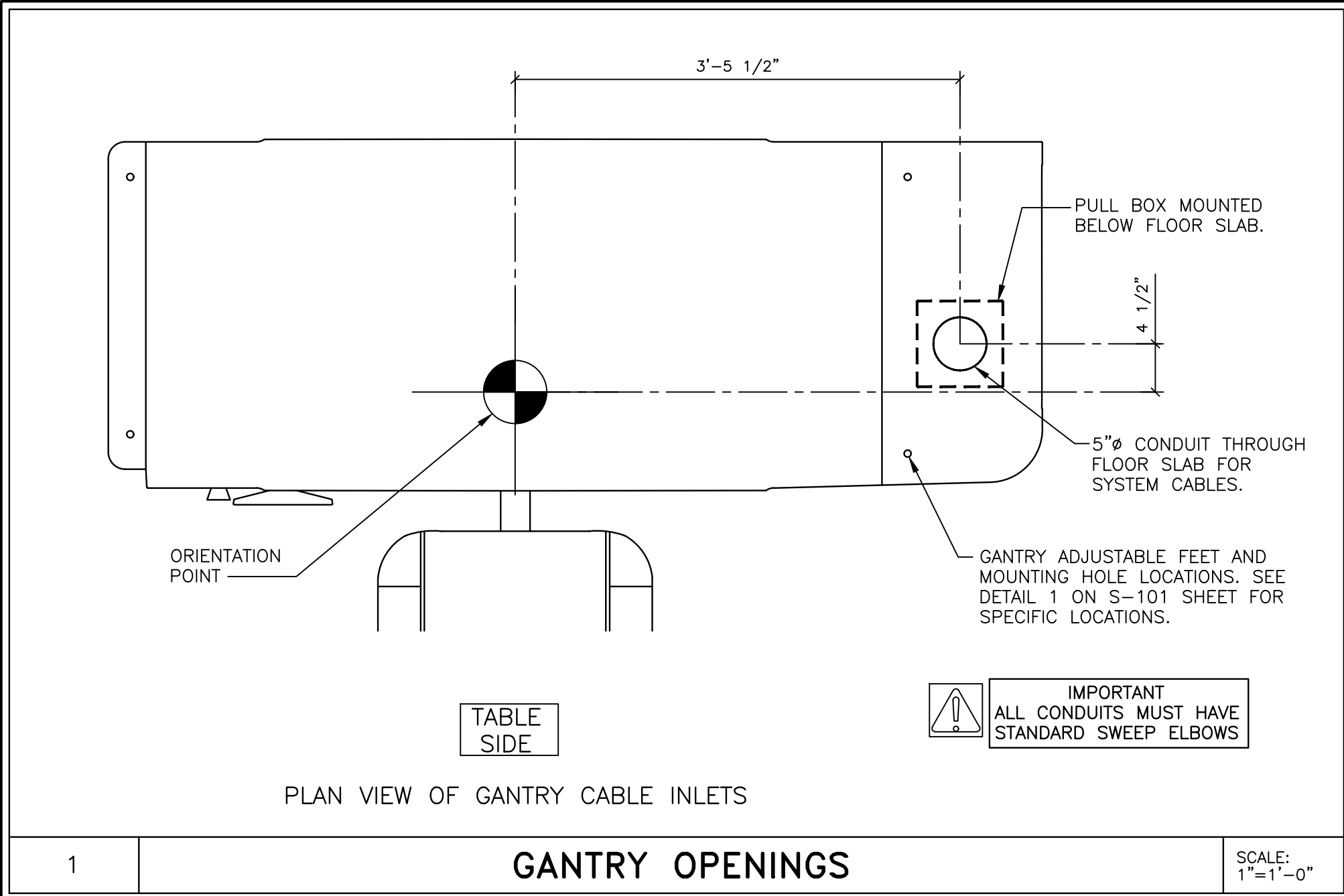
- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.

- THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

GO-TOP REV 15

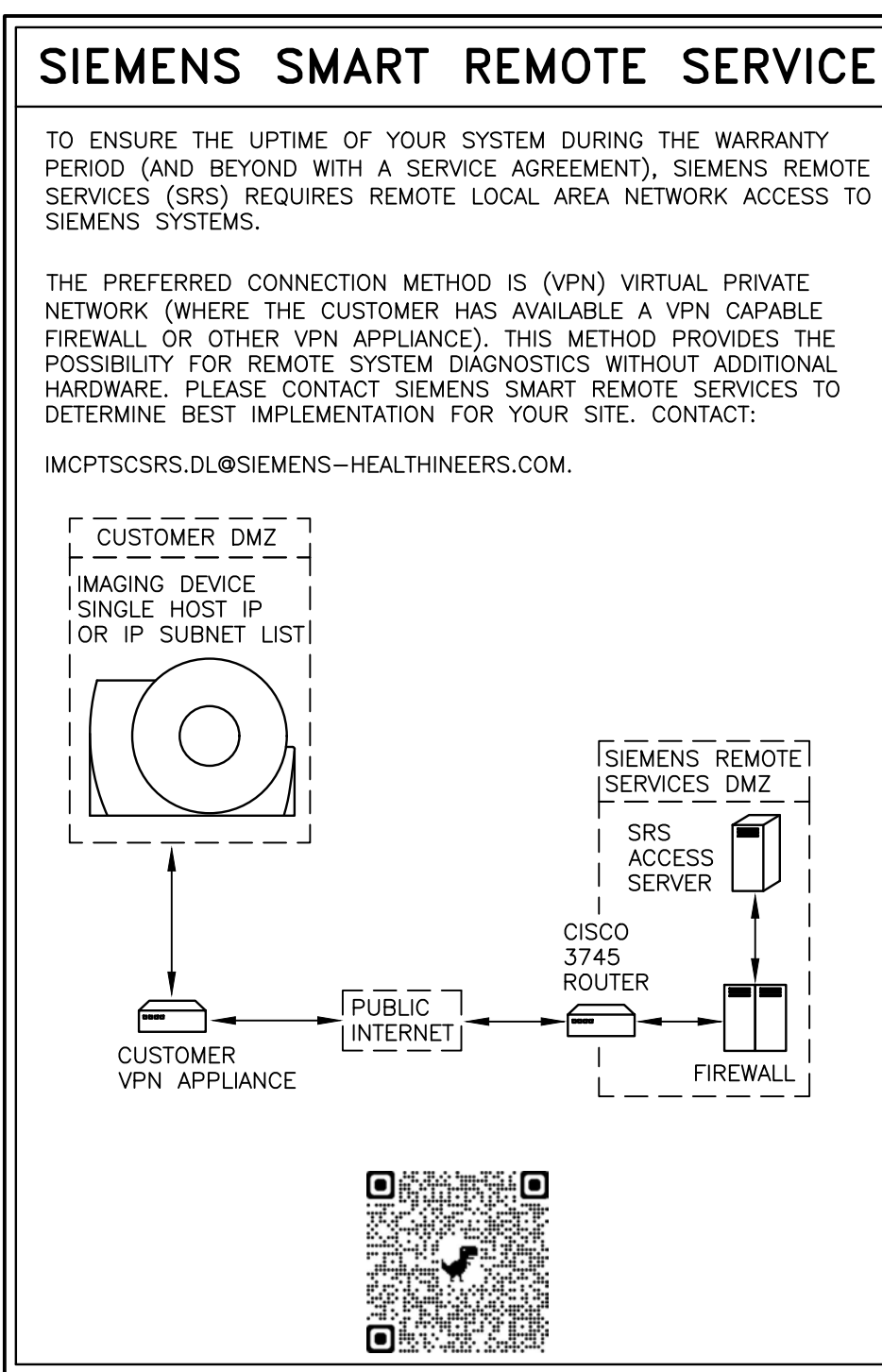
REFERENCE DOCUMENT - NOT FOR CONSTRUCTION



GROUNDING NOTES

EQUIPMENT GROUNDING CONDUCTOR TO COMPLY WITH THE FOLLOWING:

- 1) SIZE GROUNDING WIRE TO SIEMENS EQUIPMENT PER POWER SCHEDULE REQUIREMENTS.
- 2) DERIVED FROM THE ELECTRICAL SERVICE, TRANSFORMER OR MAIN DISTRIBUTION PANEL FEEDING THE SIEMENS EQUIPMENT.
- 3) RUN IN THE SAME CONDUIT, TROUGH OR RACEWAY AS THE PHASE CONDUCTORS.
- 4) CONTINUOUS, WITH NO BREAKS OR USE OF CONDUIT, CHASSIS OR EARTH AS THE SOLE GROUNDING PATH.
- 5) BONDED TO CHASSIS AND/OR CONDUIT IN ACCORDANCE WITH THE NEC REQUIREMENTS.
- 6) MINIMIZE CONNECTIONS OR TERMINALS TO ENSURE CONTINUITY OVER THE LIFE OF THE INSTALLATION.
- 7) AS A NORM, THERE SHOULD NOT BE ANY CURRENT PRESENCE ON THE GROUND CONDUCTOR, BUT IT IS ACCEPTABLE TO HAVE $\leq 500\text{mA}$ DURING OPERATION OF THE IMAGING EQUIPMENT.



POWER SCHEDULE

ALL CONDUITS AND WIRES SIZES MUST BE DETERMINED BY THE ELECTRICAL ENGINEER OF RECORD PER NEC AND TO MAINTAIN SIEMENS IMPEDANCE REQUIREMENTS.

480/277Y VOLTS
3 PHASE, 4 WIRE
PLUS GROUND

ITEM	QTY	DESCRIPTION
MP	1	MAIN PANEL WITH CIRCUIT BREAKERS FLUSH OR SURFACE MOUNTED.
M	1	MAIN BREAKER MUST HAVE TRIPPING DEVICES SO WHEN ANY EPO IS PRESSED THE BREAKER TRIPS. MAIN BREAKER AMPS: 125
		VOLTS PHASES NEUTRAL GROUND TOTAL WIRES
		480/277Y 3 1 1 5
A	1	BREAKER AMPS: 125 (FOR GANTRY "B")
		VOLTS PHASES NEUTRAL GROUND TOTAL WIRES
		480/277Y 3 1 1 5
B	1	BREAKER AMPS: 30 (FOR SURGE PROTECTIVE DEVICE "SPD") (THIS BREAKER WILL NOT BE NEEDED IF THE SURGE PROTECTIVE DEVICE IS NOT PURCHASED)
		VOLTS PHASES NEUTRAL GROUND TOTAL WIRES
		480/277Y 3 1 1 5

PHASE AND NEUTRAL WIRES TO BE SAME SIZE. GROUND PER NEC.
UNLESS OTHERWISE NOTED, ALL BREAKERS WILL BE 80% RATED

EPO VARIES

NOTE 1 - EPO CIRCUIT #1
MAIN CIRCUIT BREAKER EMERGENCY POWER OFF BUTTON WITH PROTECTIVE COVER THAT PREVENTS ACCIDENTAL ACTIVATION. THE EPO MUST BE OF FAIL-SAFE DESIGN. ALL EPO'S TO HAVE MECHANICAL LATCHING MECHANISM. EPO MUST BE RESET BEFORE MAIN BREAKER CAN RESUME OPERATION. CONTACTS AND WIRING CONFIGURATION TO BE DESIGNED BY ELECTRICAL ENGINEER OF RECORD.

NOTE 2 - EPO CIRCUIT #2
EPO CONTACTS TO BE NORMALLY CLOSED, WIRED IN SERIES, CONNECTED TO CT (B) UPS ONLY.

THE EPOs MUST BE INSTALLED BY A QUALIFIED ELECTRICAL CONTRACTOR ACCORDING TO NATIONAL ELECTRICAL CODE, STATE AND LOCAL REGULATIONS. MEASURES SHOULD BE TAKEN TO DESIGN THE CIRCUIT IN SUCH A WAY THAT IT WILL ALWAYS WORK WHEN THE MEDICAL EQUIPMENT IS POWERED. THE CUSTOMER IS SOLELY RESPONSIBLE FOR THE IMPLEMENTATION OF THE EPOs AND THEIR ASSOCIATED CIRCUITS AND MUST MAKE THE FINAL DETERMINATION CONSIDERING ALL SITE CONDITIONS AND REGULATORY FACTORS.

UNLESS OTHERWISE NOTED, ALL ITEMS LISTED IN THIS SCHEDULE SHALL BE SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR. REV 1

ATTENTION:

- THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.
- THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.
- THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

SYM	DATE	DESCRIPTION
△	N/A	TYPICAL REV 15
- ISSUE BLOCK -		

60-TOP
REV 15

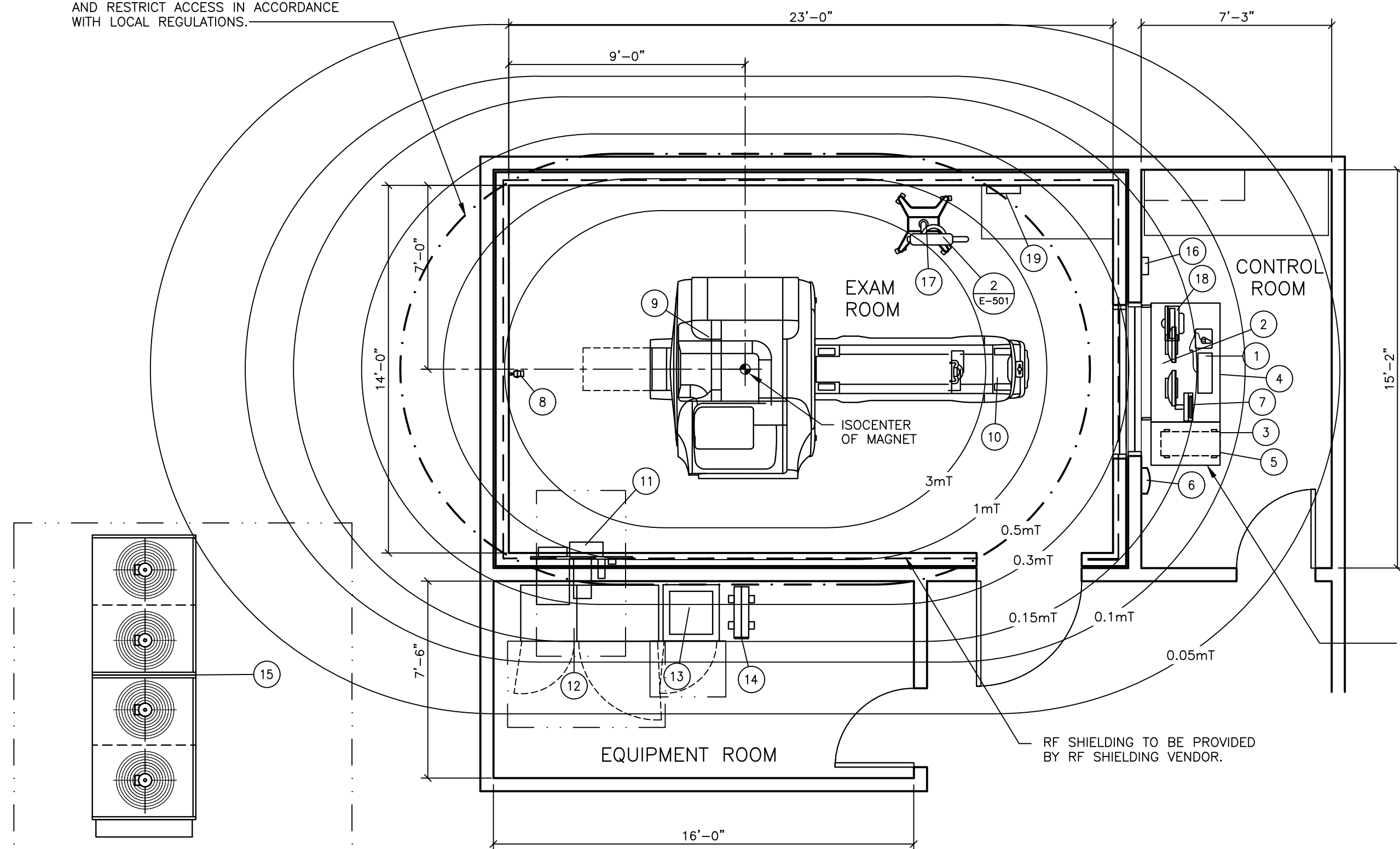
SIEMENS

SOMATOM GO.TOP

TYPICAL FINAL DRAWING SET

THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.		PROJECT #: 18068	SHEET: E-501
ALL RIGHTS ARE RESERVED.		SHEET 5 OF 5	DRAWN BY: L. BACH
SCALE: AS NOTED	REF. #:	DATE:	

THE 0.5mT FIELD SHOULD BE RESTRICTED FROM INDIVIDUALS WITH PACEMAKERS AND INSULIN PUMPS. IT IS NECESSARY TO DISPLAY WARNING SIGNS AND RESTRICT ACCESS IN ACCORDANCE WITH LOCAL REGULATIONS.



IT IS THE RESPONSIBILITY OF THE CUSTOMER/CONTRACTOR TO PROVIDE A MEANS OF MOUNTING THE PC TOWER OFF OF THE FINISHED FLOOR FOR DAMAGE PROTECTION AGAINST TIP OVER, FLUIDS, IMPACT, ETC. ADDITIONAL MOUNTING IS NOT NECESSARY IF SIEMENS CONTAINER IS UTILIZED.

CHILLER MAY OPTIONALLY BE SUPPLIED BY SIEMENS, LOCATED AND INSTALLED BY CUSTOMER/CONTRACTOR. REFER TO MANUFACTURER'S INFORMATION.

IF A CLOSET IS DESIRED TO CONCEAL THE FILTER PLATE AND CABLE CONNECTIONS, IT IS TO BE DESIGNED AND SPECIFIED AND PROVIDED BY THE CUSTOMER OR THEIR REPRESENTATIVE. A 30 1/4" CLEARANCE IS REQUIRED FOR SERVICE AND CABLING.

THERE SHALL BE A SEPARATE RF ROOM PENETRATION PANEL FOR NON-SIEMENS EQUIPMENT. THE OUTSIDE EQUIPMENT MANUFACTURER (OEM) WILL SPECIFY ANY AND ALL FILTER AND PENETRATION PANEL REQUIREMENTS.

ARCHITECTURAL EQUIPMENT PLAN

SCALE: 1/4" = 1'-0"

SYSTEM SPECIFICATION STATUS

PLEASE NOTE: CURRENT STATUS IS DRAFT

SIEMENS RESERVES THE RIGHT TO MAKE CHANGES AND OTHER MODIFICATIONS BASED UPON, BUT NOT LIMITED TO, NEW TECHNICAL DEVELOPMENTS. UNTIL RELEASE OF THE PLANNING GUIDELINE, CONTENT OF PRELIMINARY AND FINAL PLANNING IS SUBJECT TO CHANGE AND MODIFICATION.

STATE AGENCY REVIEW

PRIOR TO SIEMENS EQUIPMENT INSTALLATION, APPROVAL OF CONSTRUCTION OR STRUCTURAL MODIFICATIONS FOR DIAGNOSTIC OR THERAPEUTIC PURPOSES, MUST BE OBTAINED BY THE CUSTOMER FROM THE APPROPRIATE STATE AGENCY, IF APPLICABLE.

MAGNETIC FIELD WARNING

PLEASE BE AWARE THAT DURING THE CALIBRATION PHASE OF THE MRI INSTALLATION, THE MAGNET WILL BE AT FULL FIELD STRENGTH AND ALL NECESSARY PRECAUTIONS WHEN WORKING IN THE VICINITY OF STRONG MAGNETIC FIELDS MUST BE TAKEN. WHEN THE CALIBRATION OF THE MAGNET OVERLAPS WITH FINAL CONSTRUCTION ACTIVITIES, THERE IS THE POSSIBILITY OF THE INTRODUCTION OF FERROUS MAGNETIC OBJECTS BY WORKERS INTO THE MR ROOM. IT IS THE RESPONSIBILITY OF THE CUSTOMER TO ENSURE THAT ALL PRECAUTIONS ARE TAKEN TO ENSURE THAT THIS DOES NOT HAPPEN, AS EQUIPMENT DAMAGE AND SERIOUS BODILY INJURY COULD OCCUR.

REV 01

EXAM ROOM LIGHTING

THE MAGNETIC FIELD ADVERSELY AFFECTS THE OPERATING LIFE OF LIGHT BULBS LOCATED IN THE IMMEDIATE VICINITY OF THE MAGNET. THE FILAMENT IN THE BULBS OSCILLATES WITH THE FREQUENCY OF THE POWER SUPPLY. LIGHTS IN THE VICINITY OF THE MAGNET CONNECTED TO A DC POWER SUPPLY CAN REDUCE THIS EFFECT. RESIDUAL DC RIPPLE SHOULD BE LESS THAN 5%.

REV 2

MAGNET CO-SITING

MINIMUM DISTANCE MAGNET-MAGNET (SIEMENS)

	0.2T	0.35T	1.0T	1.5T	3.0T
0.2T	32'-9"	32'-9"	16'-5"	19'-9"	32'-9"
0.35T	32'-9"	32'-9"	16'-5"	19'-9"	32'-9"
1.0T	16'-5"	16'-5"	14'-10"	16'-5"	19'-9"
1.5T	19'-9"	19'-9"	16'-5"	16'-5"	19'-9"
3.0T	32'-9"	32'-9"	19'-9"	19'-9"	19'-9"

DO NOT RAMP ONE MAGNET WHILE THE OTHER IS RUNNING APPLICATIONS. SHIM IS ONLY OPTIMIZED WHEN BOTH MAGNETS ARE RAMPED UP DURING THE SHIMMING PROCEDURE.

WHEN CO-SITING AN MR SYSTEM WITH A MAGNETIC NAVIGATION SYSTEM THE MINIMUM DISTANCE FOR CLINICAL IMAGING IS 98'-6", FOR SPECTROSCOPY THE MINIMUM SEPARATION IS 121'-5".

REV 0

OEM ACCESSORY ITEMS

FOR OEM (OUTSIDE EQUIPMENT MANUFACTURER) ITEMS THAT ARE SOLD AS ACCESSORIES TO THE SIEMENS MR SYSTEM (INJECTORS, LASER LIGHTS, ELASTOGRAPHY, CHILLERS, UPS, ETC.), PLEASE REFER TO THE SIEMENS PROJECT MANAGER AND THE ACTUAL EQUIPMENT VENDOR.

REV 0

EQUIPMENT LEGEND

NO	DESCRIPTION	SMS SYM	WEIGHT (LBS)	BTU/HR TO AIR	DIMENSIONS (INCHES)			REMARKS
					W	D	H	
1	MRC KEYBOARD	⊖	5	---	27 1/4	10 1/8	1 3/4	ON CONSOLE/COUNTER
2	COLOR MONITOR FOR MRC	⊖	22	239	18 5/16	16 15/16	4 3/4	ON CONSOLE/COUNTER
3	HOST PC MRC	⊖	49	2,389	11	27	18 1/8	
4	MRC OPERATING CONSOLE TABLE (OPTION)	⊖	132	---	47 1/4	31 1/2	28	
5	CONTAINER FOR HOST PC 500 (OPTION)	⊖	238	---	19 5/8	31 1/2	28 3/8	
6	ALARM BOX	⊖	2	---	9	4	9	
7	PATIENT MONITOR (OPTION)	⊖	30	---	13	8	12 1/2	
8	PATIENT SUPERVISION CAMERA (OPTION)	⊖	3	---	3 1/8	6 3/4	6 3/4	WALL MOUNTED
9	ALTEA MAGNET IN OPERATION	⊖	8,779	7,506	91	170	86	
10	PATIENT TABLE (MOBILE)	⊖	529	---	29 1/2	97 1/4	21-41	
11	RF-FILTER PLATE	⊖	287	853	46 1/2	35 1/8	21 5/8	
12	ELECTRONICS CABINET (GPA/EPC CABINET)	⊖	3,307	<3,412	61 1/2	26	77 1/2	
13	SEP CABINET	⊖	750	<3,412	25 5/8	25 5/8	73 5/8	
14	LIEBERT GX14 UPS WITH BATTERY (OPTION)	⊖	164	TBD	17	23 5/8	6 3/4	
15	DIMPLEX CHILLER (45kW) (OPTION)	⊖	4,000	---	138	44	84 1/2	CUST. TO LOCATE/INSTALL
16	DIMPLEX STATUS PANEL (OPTION)	⊖	---	3	6 1/8	1 1/2	3 1/4	WALL MOUNTED IN CONTROL ROOM
17	MRXPERION INJECTOR STAND AND HEAD (OPTION)	⊖	94	---	23 3/8	28 3/8	71 7/8	INJECTOR ON STAND
18	MRXPERION iCBC INJECTOR CRU (OPTION)	⊖	17.6	---	15 3/4	10 1/4	13 1/2	ON CUSTOMERS COUNTER
19	MRXPERION iCBC INJECTOR POWER SUPPLY (OPTION)	⊖	6	---	15 3/8	3 3/8	15 1/2	LOCATED IN EXAM ROOM OUTSIDE 5mT FIELD

PROTECTING THE MAGNETIC FIELD

THE SIEMENS MR SYSTEM UTILIZES A SUPERCONDUCTIVE MAGNET WITH AN EXTREMELY HOMOGENEOUS FIELD WITHIN THE MAGNET TO PROVIDE DISTORTION FREE IMAGING. THE PRESENCE OF FERROMAGNETIC MATERIAL WITHIN THE VICINITY OF THE MAGNET CAN ADVERSELY AFFECT THE UNIFORMITY OF THE USEFUL MAGNETIC FIELD. THIS APPLIES TO STATIONARY FERROUS MATERIAL (STRUCTURAL STEEL) WHICH IS TO BE MINIMIZED. STATIONARY STEEL COMPENSATION MAY BE ACHIEVED BY MAGNET POSITIONING AND SELECTIVE USE OF SHIMS. DISTORTION CAUSED BY MOVING FERROMAGNETIC OBJECTS (MOTOR VEHICLES, ELEVATORS) IS MORE DIFFICULT TO COMPENSATE AND MAY REQUIRE THE USE OF MAGNETIC SHIELDING.

REV 0

PROTECTING THE ENVIRONMENT

PROTECTING THE IMMEDIATE ENVIRONMENT FROM THE EFFECT OF THE MAGNETIC FIELD REQUIRES CONSIDERATION. INFORMATION STORED ON MAGNETIC DATA CARRIERS SUCH AS DISCS, TAPES AND CARDS MAY BE ERASED IF NEAR THE MAGNET. CAUTION WITH REGARD TO HEART PACEMAKERS MUST BE EXERCISED. MOST PACEMAKER UNITS EMPLOY A REED RELAY WHICH MAY CHANGE OPERATING MODE WHEN EXPOSED TO AN EXTERNAL MAGNETIC FIELD. PACEMAKER USERS MUST BE KEPT AT A SPECIFIED DISTANCE FROM THE MAGNET WHICH IS DETERMINED BY THE MAGNET FIELD STRENGTH.

REV 0

MAGNETIC FRINGE FIELDS

MAGNETIC FIELDS MAY AFFECT THE FUNCTION OF DEVICES IN THE VICINITY OF THE MAGNET. THESE DEVICES MUST BE OUTSIDE CERTAIN MAGNETIC FIELDS. THE DISTANCES LISTED ARE FROM THE MAGNET ISOCENTER AND DO NOT CONSIDER ANY MAGNETIC ROOM SHIELDING.

FIELD	X & Y	Z AXIS	DEVICES
3.0mT	6'-1"	9'-2"	SMALL MOTORS, WATCHES, CAMERAS, CREDIT CARDS, MAGNETIC DATA CARRIERS.
1.0mT	7'-3"	11'-7"	COMPUTERS, MAGNETIC DISK DRIVES, OSCILLOSCOPES, PROCESSORS
0.5mT	8'-3"	13'-2"	CARDIAC PACEMAKERS, X-RAY TUBES, INSULIN PUMPS, B/W MONITORS, MAGNETIC DATA CARRIERS (LONG-TERM STORAGE)
0.15mT	10'-4"	17'-4"	SIEMENS CT SCANNERS
0.1mT	11'-2"	19'-1"	CRT MONITORS, SIEMENS LINEAR ACCELERATORS
0.05mT	13'-6"	22'-8"	X-RAY IMAGE INTENSIFIERS, GAMMA CAMERAS, PET/CYCLOTRON, ELECTRON MICROSCOPES, LINEAR ACCELERATORS

THE OWNER/USER IS TO VERIFY THE LOCATION OF THE 0.5mT FIELD AND ENSURE THAT IT IS MAINTAINED AS A RESTRICTED AREA.

MAGNET SITING REQUIREMENTS

IT MUST BE ENSURED THAT THE MAGNET IS LOCATED SO THAT THE STABILITY AND HOMOGENEITY OF THE MAGNETIC FIELD ARE NOT ADVERSELY AFFECTED BY EXTRANEOUS FIELDS AND STATIC OR DYNAMIC FERROMAGNETIC OBJECTS.

X & Y AXES	Z AXIS	SOURCE OF INTERFERENCE
4'-2"	9'-2"	FLOOR STEEL REINFORCEMENT <20 LBS./ FT. ² IRON BEAMS < 66 LBS./FT.
16'-1"	19'-1"	MOVING METAL UP TO 110 LBS.
13'-1"	---	WATER COOLING UNIT (CHILLER)
17'-5"	21'-4"	MOVING METAL UP TO 440 LBS.
18'-1"	24'-8"	MOVING METAL UP TO 2,000 LBS.
20'-5"	29'-7"	ELEVATORS, TRUCKS UP TO 10,000 LBS.
13'-1"	13'-1"	AC TRANSFORMERS LESS THAN 650 KVA
16'-5"	16'-5"	AC TRANSFORMERS LESS THAN 1600 KVA
5'-0"	5'-0"	AC CABLES, MOTORS LESS THAN 250 AMPS
8'-3"	8'-3"	AC CABLES, MOTORS LESS THAN 1000 AMPS

FOR IRON OBJECTS LOCATED UP TO 45' FROM THE Z AXIS, THE DISTANCES FOR THE Z AXIS MUST BE USED. REDUCTION IS POSSIBLE WITH STEEL SHIELDING.

REV 2

PROJECT MILESTONES

PROJECT MILESTONES TO BE COMPLETED BEFORE EQUIPMENT DELIVERY	REFERENCE SHEET
<input type="checkbox"/> DELIVERY PATH VERIFIED	A-102
<input type="checkbox"/> FLOOR LEVEL MEETS SIEMENS SPECIFICATIONS AND ALL BASEPLATES INSTALLED	S-101
<input type="checkbox"/> RF ROOM TEST COMPLETED AND MEETS SIEMENS SPECIFICATIONS	A-502
<input type="checkbox"/> ALL RACEWAY, CONDUITS AND JUNCTION BOXES INSTALLED	E-101
<input type="checkbox"/> ALL PLUMBING INSTALLED AND TESTED	M-101
<input type="checkbox"/> POWER SCHEDULE COMPLETED	E-102
<input type="checkbox"/> ALL EPO BUTTONS INSTALLED AND TESTED	E-101
<input type="checkbox"/> MR COMPATIBLE LIGHTING AND CEILING GRIDS INSTALLED IN MAGNET ROOM	A-101
<input type="checkbox"/> CONTROL ROOM COMPLETED ENOUGH TO FACILITATE THE INSTALLATION	A-101
<input type="checkbox"/> CHILLED WATER SUPPLY AVAILABLE AND MEETS SIEMENS SPECIFICATIONS	M-101
<input type="checkbox"/> MR COMPATIBLE LIGHTING AND CEILING GRIDS INSTALLED IN MAGNET ROOM	A-101
<input type="checkbox"/> HVAC SYSTEM COMPLETE, TESTED AND WORKING PER SIEMENS SPECIFICATIONS	M-101
<input type="checkbox"/> QUENCH PIPE CONSTRUCTED AND INSTALLED PER SIEMENS SPECIFICATIONS	M-501
<input type="checkbox"/> ETHERNET CONNECTION INSTALLED AND IN OPERATION AT THE SHOWN LOCATIONS	E-101

CEILING HEIGHTS

EXAM ROOM 7'-11" MINIMUM
CONTROL ROOM 6'-11" MINIMUM
EQUIPMENT ROOM 7'-3" MINIMUM

ARCHITECTURAL NOTES

- ALL PRELIMINARY EQUIPMENT LAYOUTS SUBMITTED BY SIEMENS MEDICAL SOLUTIONS, INC. (SMS HEREAFTER) ARE BASED ON THE RECOMMENDED SPACE NECESSARY FOR THE OPERATION AND SERVICEABILITY OF THE EQUIPMENT BEING PROPOSED. SMS WILL NOT SUBMIT AN EQUIPMENT LAYOUT THAT IS NOT IN THE BEST INTEREST OF BOTH THE CUSTOMER AND SMS. ALL EQUIPMENT LAYOUTS ARE BASED EITHER ON AN ACTUAL SITE LOCATION SURVEY OR ARCHITECTURAL DRAWINGS SUPPLIED TO SMS. SMS WILL NOT BE RESPONSIBLE FOR ANY ALTERATIONS THAT ENCROUGH WITHIN DESIGNATED SAFETY AND SERVICE CLEARANCE ZONES AS INDICATED ON DRAWINGS (IE. PIPE CHASES, VENTILATION DUCTS, CASEWORK, AND SOFFITS, ETC.) MADE BY THE CUSTOMER OR REQUIRED BY A CUSTOMER'S ARCHITECTURAL FIRM ONCE PRELIMINARY DRAWINGS HAVE BEEN SUBMITTED AND APPROVED. DO NOT ALTER ANY SPECIFICATIONS AND/OR DIMENSIONS WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SMS PROJECT MANAGER.
- SMS IS NOT AN ARCHITECTURAL OR ENGINEERING FIRM. DRAWINGS SUPPLIED BY SMS ARE NOT CONSTRUCTION DRAWINGS. THEREFORE, THESE DRAWINGS ARE TO BE USED ONLY FOR INFORMATION TO COMPLEMENT ACTUAL CONSTRUCTION DRAWINGS AVAILABLE FROM A CUSTOMER APPOINTED ARCHITECTURAL REPRESENTATIVE OR A CUSTOMER'S ENGINEERING DESIGN GROUP. THE CUSTOMER'S ARCHITECT AND GENERAL CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE CODES AND PROFESSIONAL REQUIREMENTS.
- THE CUSTOMER IS RESPONSIBLE FOR ALL ROOM AND AREA PREPARATION COSTS, PROFESSIONAL FEES, PERMITS, REPORTS, AND INSPECTION FEES.
- EQUIPMENT WARRANTIES, EXPRESSED OR IMPLIED ON THE PART OF SMS SHALL BE CONTINGENT UPON STRICT COMPLIANCE WITH THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL AND RECOMMENDATIONS AND REQUIREMENTS CONTAINED IN THESE DRAWINGS. UNLESS SPECIFIED OTHERWISE.
- ALL DIMENSIONS SHOWN ARE TAKEN FROM FINISHED SURFACES UNLESS SPECIFIED OTHERWISE.
- THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST. ACTUAL PROTECTION REQUIREMENTS SHALL BE SPECIFIED BY A REGISTERED RADIATION PHYSICIST AT CUSTOMER'S ENGAGEMENT AND EXPENSE. RESPONSIBILITY FOR ALL INFORMATION AS TO THE ROOM LOCATION, USE, AND NUMBER OF ANTICIPATED EXAMINATIONS TO BE PERFORMED PER TIME PERIOD SHALL BE PROVIDED TO THE PHYSICIST BY THE CUSTOMER. THE CUSTOMER SHALL INITIATE THE SERVICES OF APPROVED OTHER CONTRACTORS AND COORDINATION OF ACTIVITIES OF THE RADIATION PHYSICIST AND THE ARCHITECTURAL REPRESENTATIVE.
- SMS SHALL BE RESPONSIBLE FOR SMS EQUIPMENT INSTALLATION AND CALIBRATION, CONNECTION AND INSTALLATION OF SMS PROVIDED CABLES. THE CUSTOMER/ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR TERMINATIONS OF CUSTOMER/ELECTRICAL CONTRACTOR-SUPPLIED CABLES TO SMS EQUIPMENT. IN THE EVENT THAT SPECIFIC TRADE RULES OR LICENSE REQUIREMENTS PROHIBIT THIS, THE CUSTOMER SHALL INITIATE THE SERVICES OF APPROVED OTHER CONTRACTORS AND PAY FOR SELECTED, APPROVED PARTS TO PERFORM THIS WORK WITH JOB SUPERVISION TO BE PROVIDED BY SMS. CALIBRATION WHEN ACCOMPLISHED OUTSIDE OF NORMAL INSTALLATION SEQUENCES DUE TO CONTRACTOR OR TRADE RULE ACTIONS OR REQUIREMENTS SHALL BE SUPPORTED BY, CHARGED TO, AND ACCEPTED BY THE CUSTOMER AS AN ADDITIONAL INSTALLATION EXPENSE.
- THE CUSTOMER SHALL VERIFY WITH SMS PROJECT MANAGER FINAL INSTALLATION DRAWINGS THE LOCATIONS AND TRAVEL OF ALL ANCILLARY EQUIPMENT TO BE CEILING OR WALL MOUNTED (IE. O.R. LIGHTS, MEDICAL GAS COLUMNS, PHYSIOLOGICAL MONITORING INJECTORS, CRT PLATFORMS, SPRINKLER HEADS, SMOKE DETECTORS, ELECTRICAL OUTLETS, HVAC GRILLES, SPEAKERS, AND GENERAL ROOM LIGHTING, ETC.).
- THE GENERAL CONTRACTOR/CUSTOMER SHALL BE RESPONSIBLE FOR ALL FINAL PAINT, TOUCH-UP AND ANY COSMETIC OR TRIM WORK WHICH NEEDS TO BE OR IS REQUIRED TO BE COMPLETED AFTER THE INSTALLATION OF THE SMS EQUIPMENT AND ANY ASSOCIATED SUPPORT APPARATUS.

CONSTRUCTION REQUIREMENTS

THE CUSTOMER/CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND INSTALLING ALL CONSTRUCTION MATERIALS INCLUDING ELECTRICAL AND MECHANICAL DEVICES REQUIRED BY SIEMENS SPECIFICATIONS AND TO ENSURE THAT THE MATERIAL USED INSIDE THE RF-SHIELDING IS AS FREE OF FERROMAGNETIC PROPERTIES AS POSSIBLE. STEEL WALL STUDS ARE PERMITTED BUT MUST BE SECURED PROPERLY. ANY FERROUS MATERIAL INSIDE THE EXAM ROOM MAY BECOME A MISSILE AND CAUSE INJURY TO PEOPLE AND DAMAGE TO EQUIPMENT. FERROUS ITEMS INSIDE THE EXAM ROOM ARE THE LIABILITY OF THE CONTRACTOR AND/OR INSTALLER.

REV 2

CASEWORK & ACCESSORY NOTES

- ALL CASEWORK IS EITHER EXISTING OR IS TO BE DESIGNED, DETAILED, FURNISHED AND INSTALLED BY THE CUSTOMER AND/OR CONTRACTOR. FOLLOW DESIGN RECOMMENDATIONS INCLUDED HEREWITH, AS THEY ARE ESSENTIAL FOR THE SUCCESSFUL INSTALLATION & OPERATION OF THE SIEMENS EQUIPMENT.
- ALL FURNITURE (CHAIRS, ETC.) FOR THE CONTROL ROOM ARE TO BE PROVIDED BY THE CUSTOMER.

REV 0

RESOURCE LIST (SMS USE ONLY)

DESIGNATION	PG NUMBER	DATE
DRAFT PLANNING GUIDE	M11-010.891.01.02.02	12/04/18

ATTENTION:

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SIEMENS

MAGNETOM ALTEA

TYPICAL FINAL DRAWING SET

THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.

ALL RIGHTS ARE RESERVED.

SCALE: AS NOTED REF. #: ---

PROJECT #: **19073**

SHEET: **A-101**

DATE: N/A

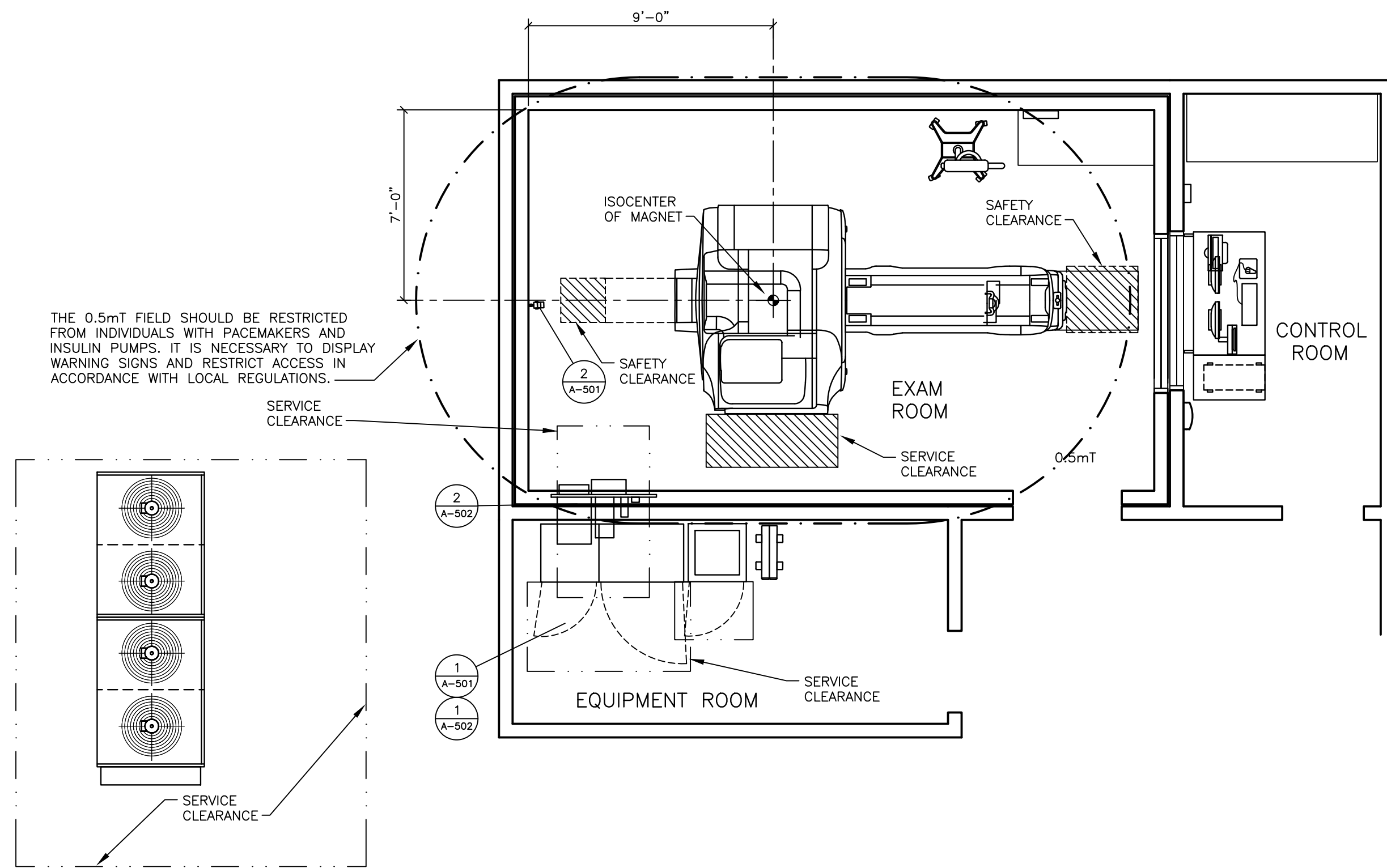
DRAWN BY: B. HERRMANN

—ISSUE BLOCK—

SYM	DATE	DESCRIPTION
△	N/A	TYPICAL DRAWING SET

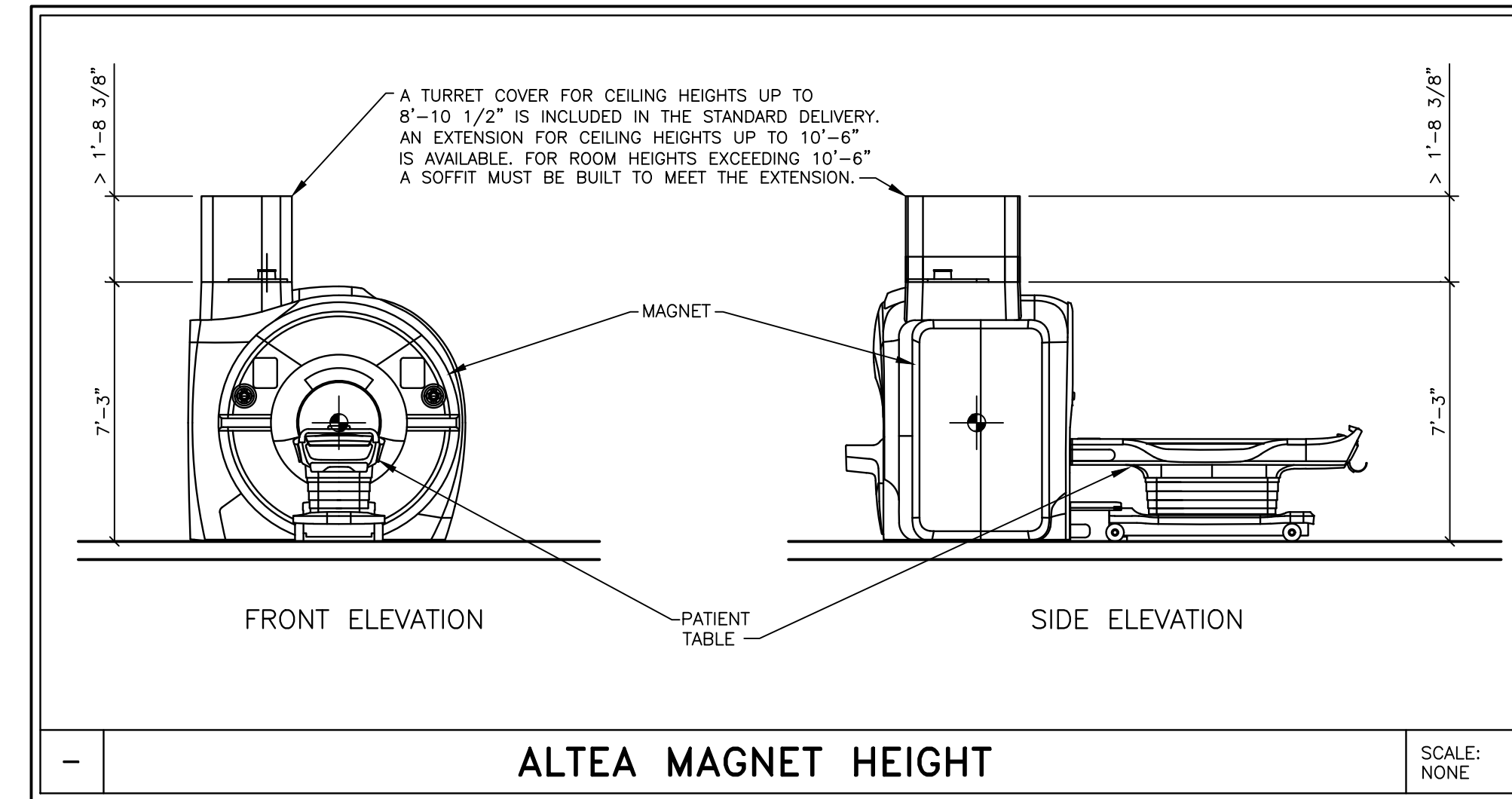
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REFERENCE DOCUMENT - NOT FOR CONSTRUCTION



SAFETY/SERVICE CLEARANCE PLAN

SCALE: 1/4" = 1'-0"



SYSTEM SPECIFICATION STATUS

PLEASE NOTE: CURRENT STATUS IS DRAFT

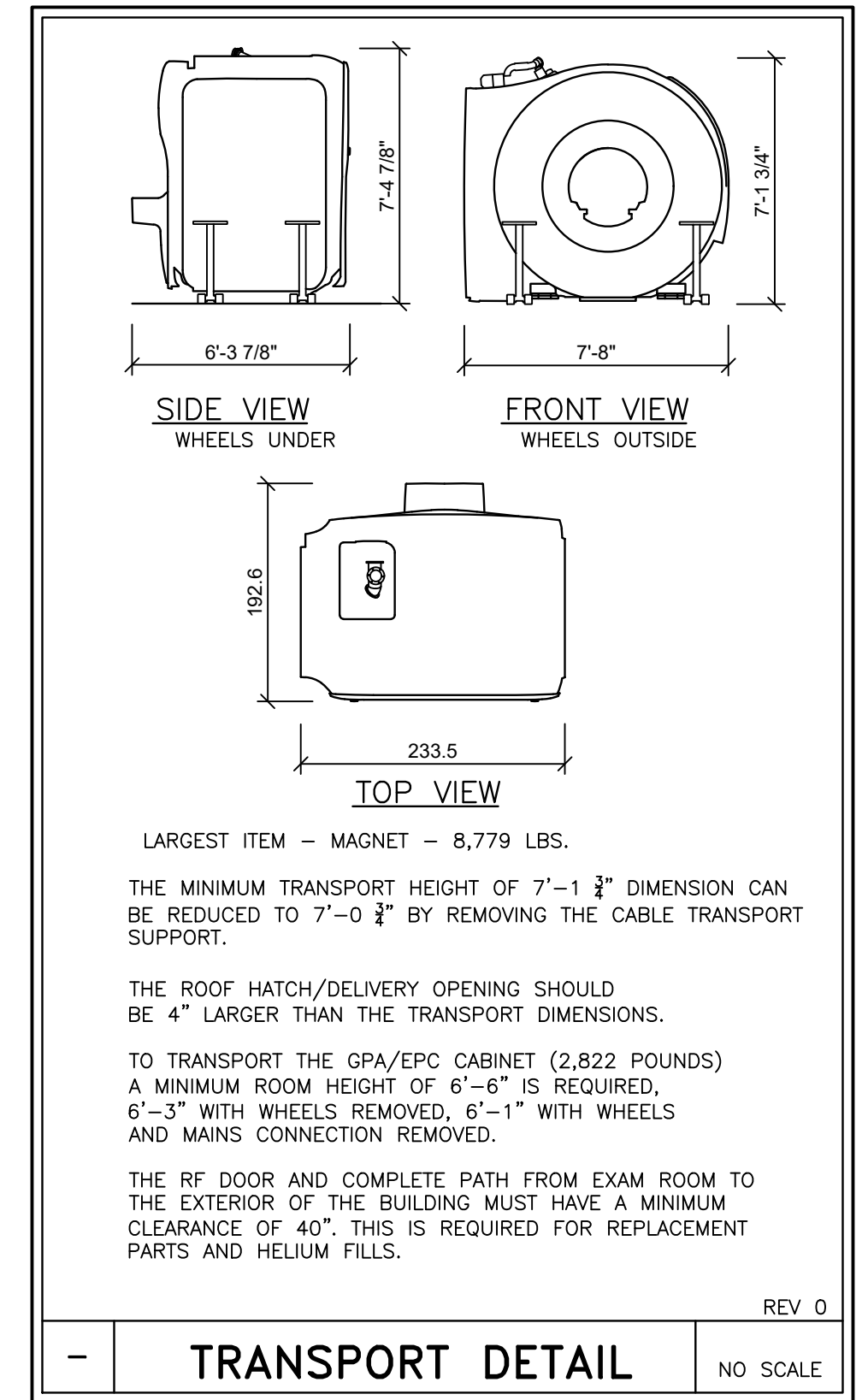
SIEMENS RESERVES THE RIGHT TO MAKE CHANGES AND OTHER MODIFICATIONS BASED UPON, BUT NOT LIMITED TO, NEW TECHNICAL DEVELOPMENTS. UNTIL RELEASE OF THE PLANNING GUIDELINE, CONTENT OF PRELIMINARY AND FINAL PLANNING IS SUBJECT TO CHANGE AND MODIFICATION.

NOISE LEVELS X,J GRADIENTS

SYSTEM ROOM	NOISE LEVEL / dB(A)
CONTROL ROOM	<55
EXAMINATION ROOM	80.3 dB(A) - 8 HOUR AVERAGE 98.7 dB(A) MAXIMUM, MEASURED INSIDE THE EXAM ROOM.
EQUIPMENT ROOM	<65

NOISE LEVELS ARE BASED ON AN AVERAGE MEASUREMENT OVER 8 HOURS OF CLINICAL SCANNING. PEAK LEVELS MAY BE HIGHER FOR CERTAIN SEQUENCES.

IT IS THE CUSTOMER'S RESPONSIBILITY TO ENSURE THAT ALL LOCAL/STATE/OSHA NOISE REGULATIONS ARE ADHERED TO. ADDITIONAL NOISE DATA MAY BE PROVIDED BY SIEMENS PROJECT MANAGER UPON REQUEST. 03/19/18



SURFACE COIL STORAGE

SURFACE COILS ARE COMPONENTS OF THE MRI SYSTEM THAT ARE ATTACHED TO THE PATIENT TABLE DURING EXAMS. WHEN NOT IN USE COILS SHOULD BE STORED SO THAT THEY ARE FREE FROM DAMAGE. THE DESIGN OF THE MR EXAM ROOM MUST HAVE AMPLE STORAGE SPACE TO ACCOMMODATE ANY COILS THAT THE OWNER WILL HAVE. COILS MAY BE SELECTED FROM THE LIST BELOW. STORAGE PROVIDED BY CUSTOMER/CONTRACTOR.

COIL NAME	POUND WEIGHT	INCHES		
		LENGTH	WIDTH	HEIGHT
BODY COIL 18	4	15 1/8	23 1/4	3
HEAD/NECK COIL 20	11	17 3/8	13	14 5/8
SPINE COIL 32	24	47 1/4	19 1/4	3
FLEX COIL LARGE 4	1.2	20 3/8	8 7/8	-
FLEX COIL SMALL 4	1	14 3/8	6 7/8	-
PERIPHERAL ANGIO 36	18	33 7/8	26	11
HAND/WRIST COIL 16	6	13 1/8	8 1/2	4 1/2
HAND/WRIST COIL BASE	4	20 5/8	12 3/8	1 1/4
FOOT/ANKLE COIL 16	7	16 1/8	13	15 3/8
FOOT/ANKLE COIL BASE	15	16 3/4	13 1/8	15 1/8
SHOULDER COIL LARGE 16	15	15	17	19
SHOULDER COIL SMALL 16	15	12	17	19
CP EXTREMITY	15	16	10 5/8	11 3/8
TX.RX 15 CHANNEL KNEE	15	10 1/8	14 1/8	12 1/4
BI BREAST COIL 4 CH.	23	34 5/8	18 1/2	8 1/4
AI BREAST COIL 16 CH.	24	28	18 1/2	7 7/8
SENTINELLE VANGUARD IMMOBILIZER	45	43 1/4	22 7/8	11

CEILING HEIGHTS

EXAM ROOM 7'-11" MINIMUM

CONTROL ROOM 6'-11" MINIMUM

EQUIPMENT ROOM 7'-3" MINIMUM

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SIEMENS

MAGNETOM ALTEA

TYPICAL FINAL DRAWING SET

THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.	PROJECT #:	SHEET:
	19073	A-102
ALL RIGHTS ARE RESERVED.	SHEET 2 OF 10	DRAWN BY: B. HERRMANN
SCALE: AS NOTED	REF. #: ---	DATE: N/A

ATTENTION:

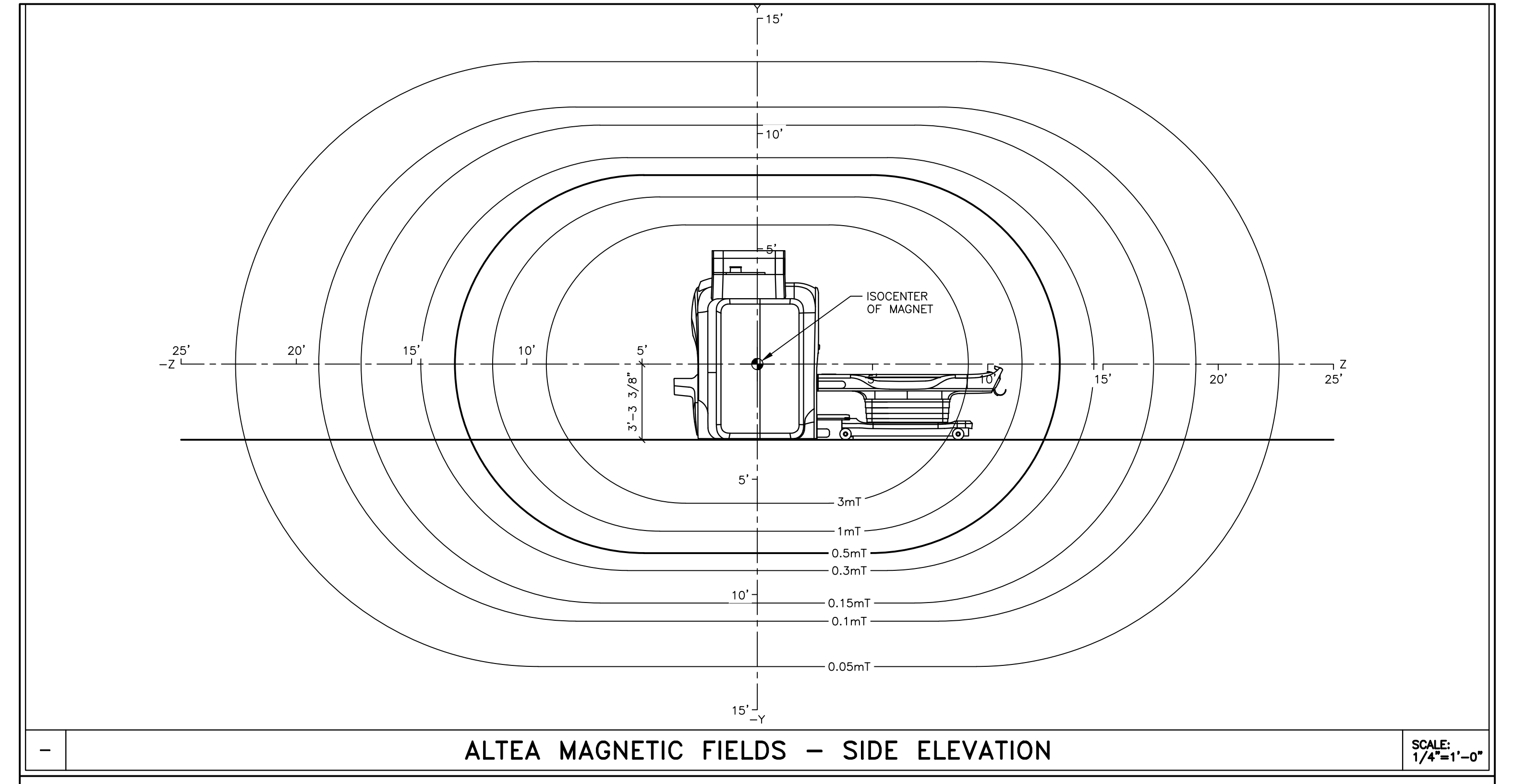
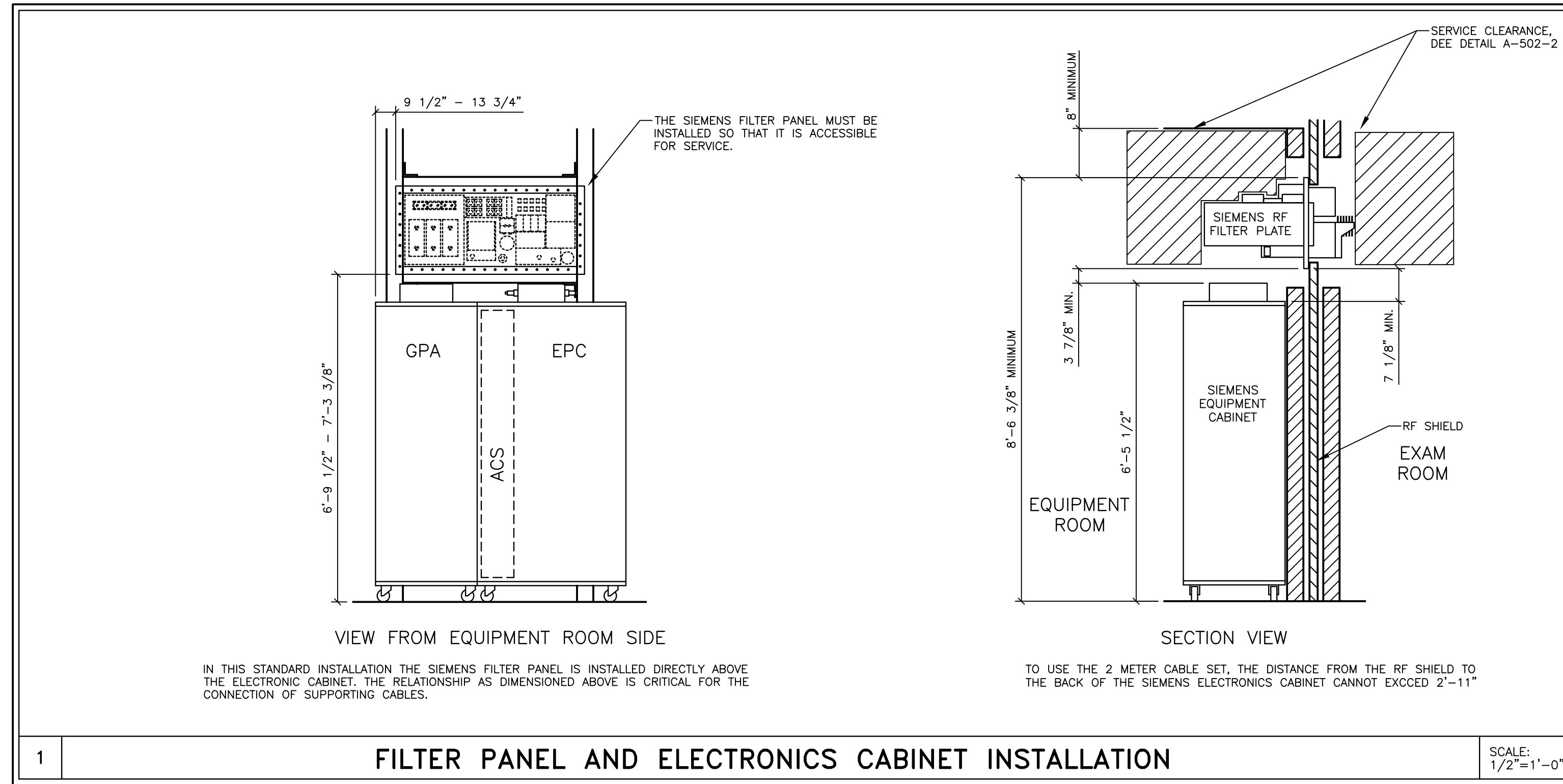
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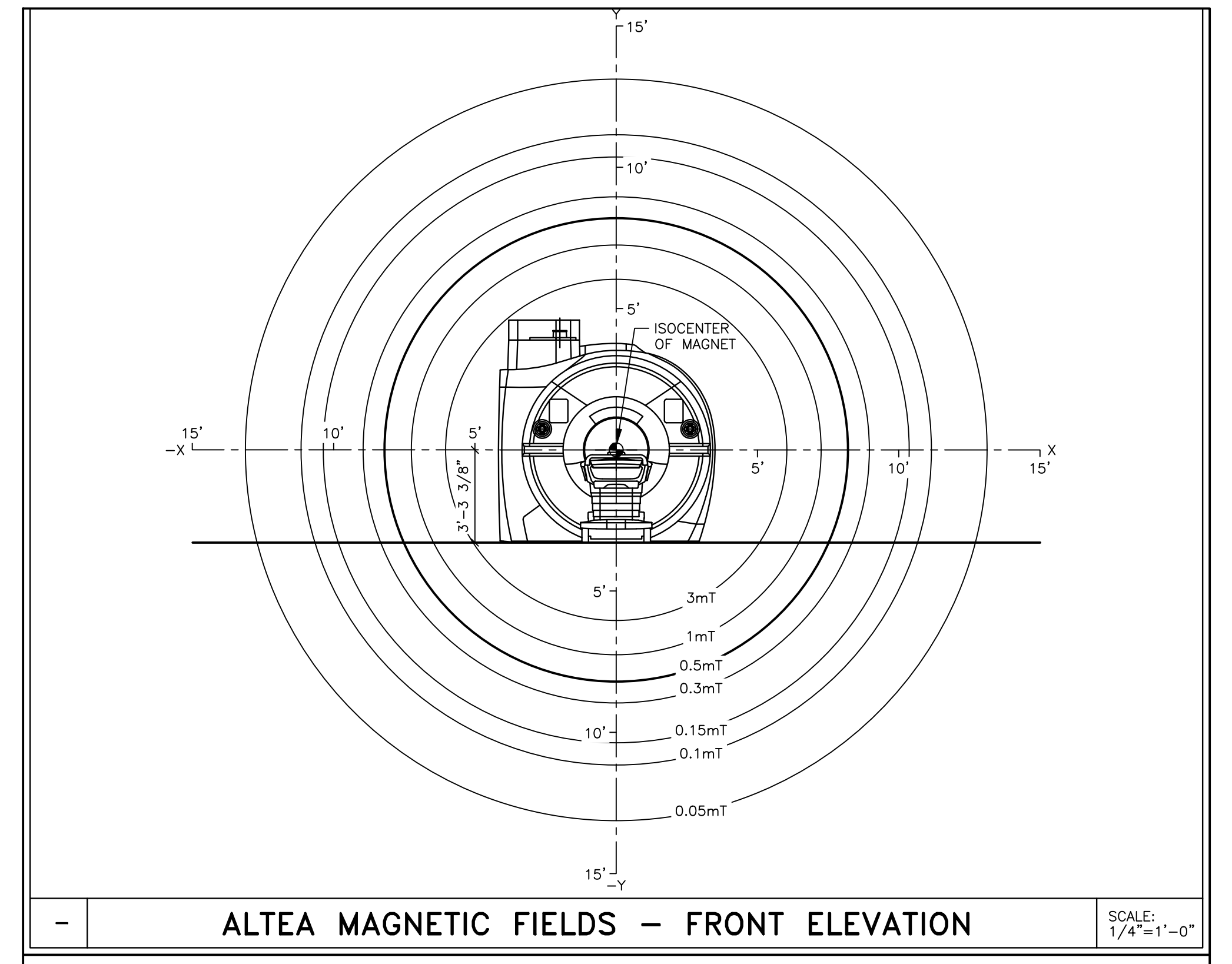
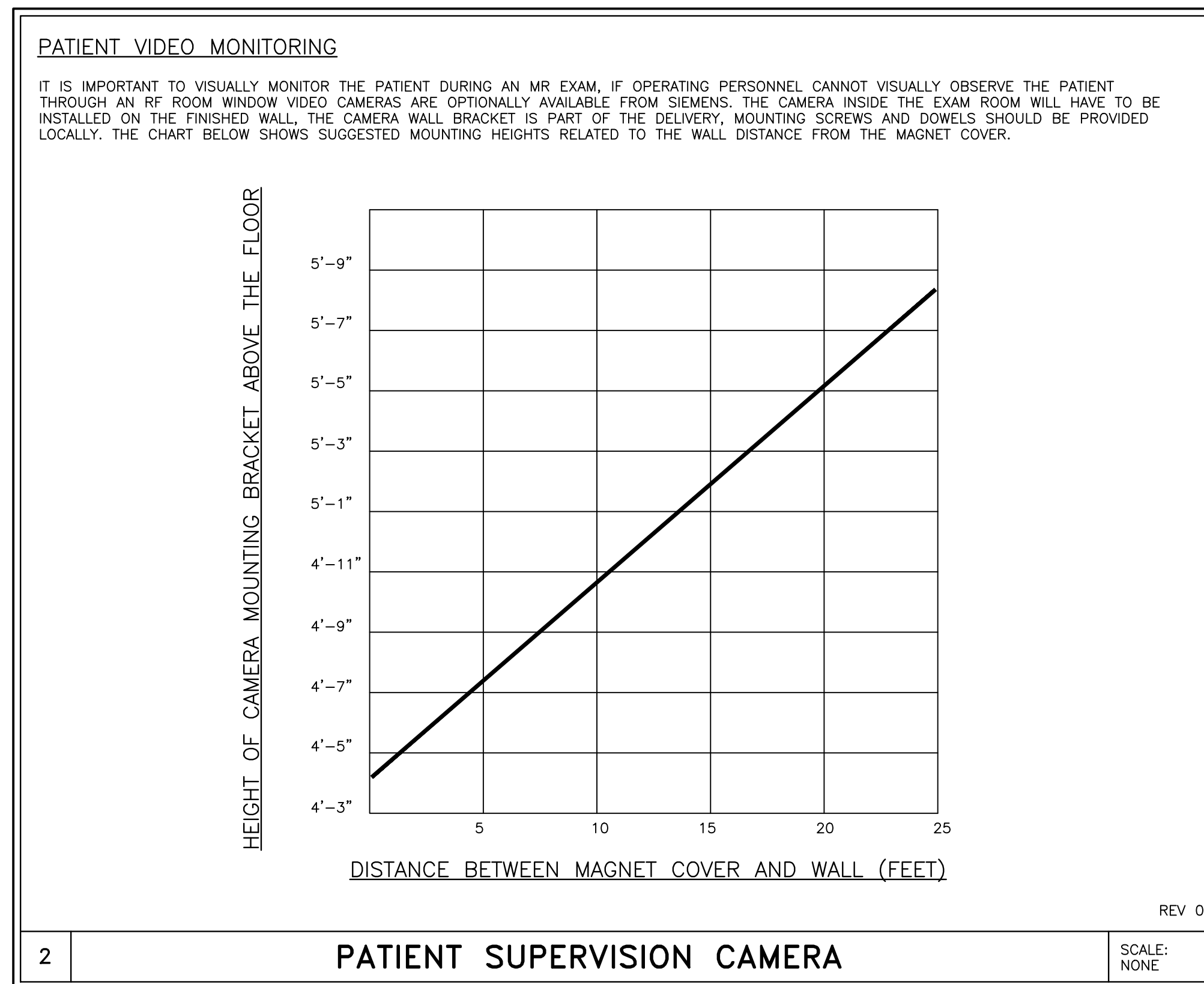
△	N/A	TYPICAL DRAWING SET
SYM	DATE	DESCRIPTION
-ISSUE BLOCK-		



SYSTEM SPECIFICATION STATUS

PLEASE NOTE: CURRENT STATUS IS DRAFT

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- THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

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ALTEA REV D		SIEMENS	
MAGNETOM ALTEA		TYPICAL FINAL DRAWING SET	
THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.		PROJECT #: 19073	SHEET: A-501
ALL RIGHTS ARE RESERVED.		SHEET 3 OF 10	DRAWN BY: B. HERRMANN
-ISSUE BLOCK-		SCALE: AS NOTED	REF. #: ---
		DATE: N/A	

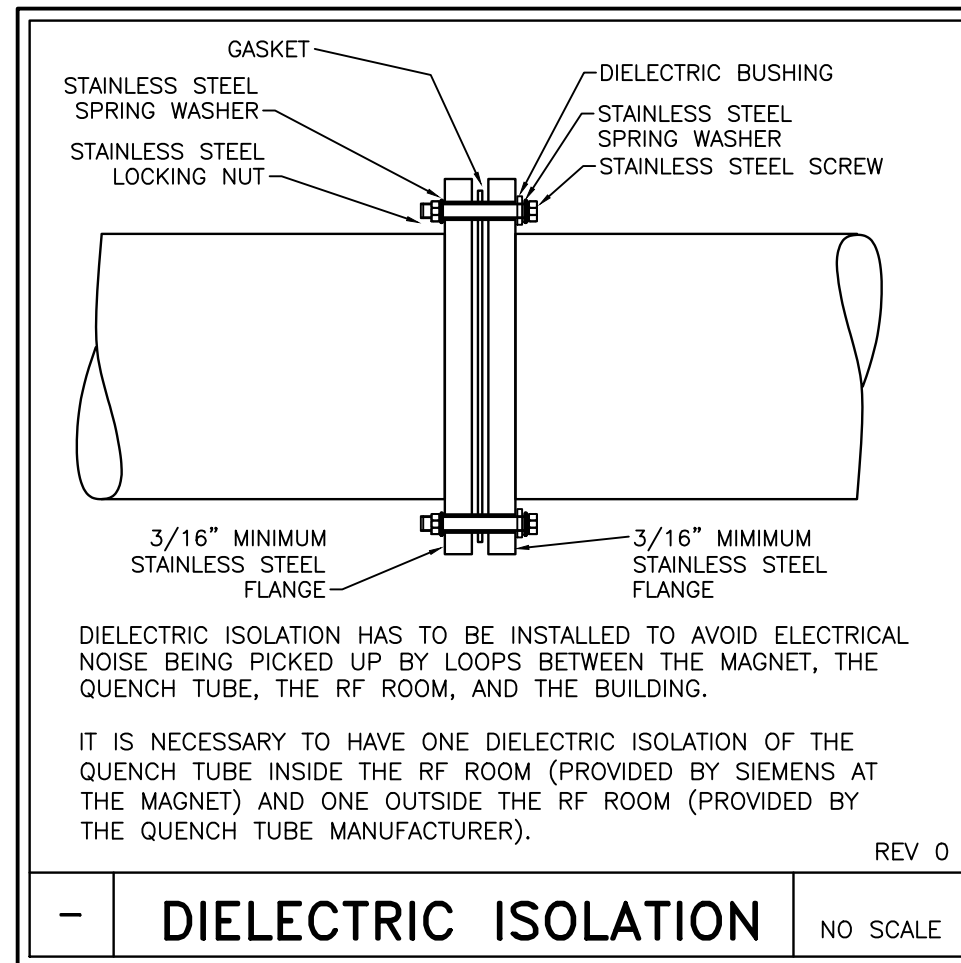
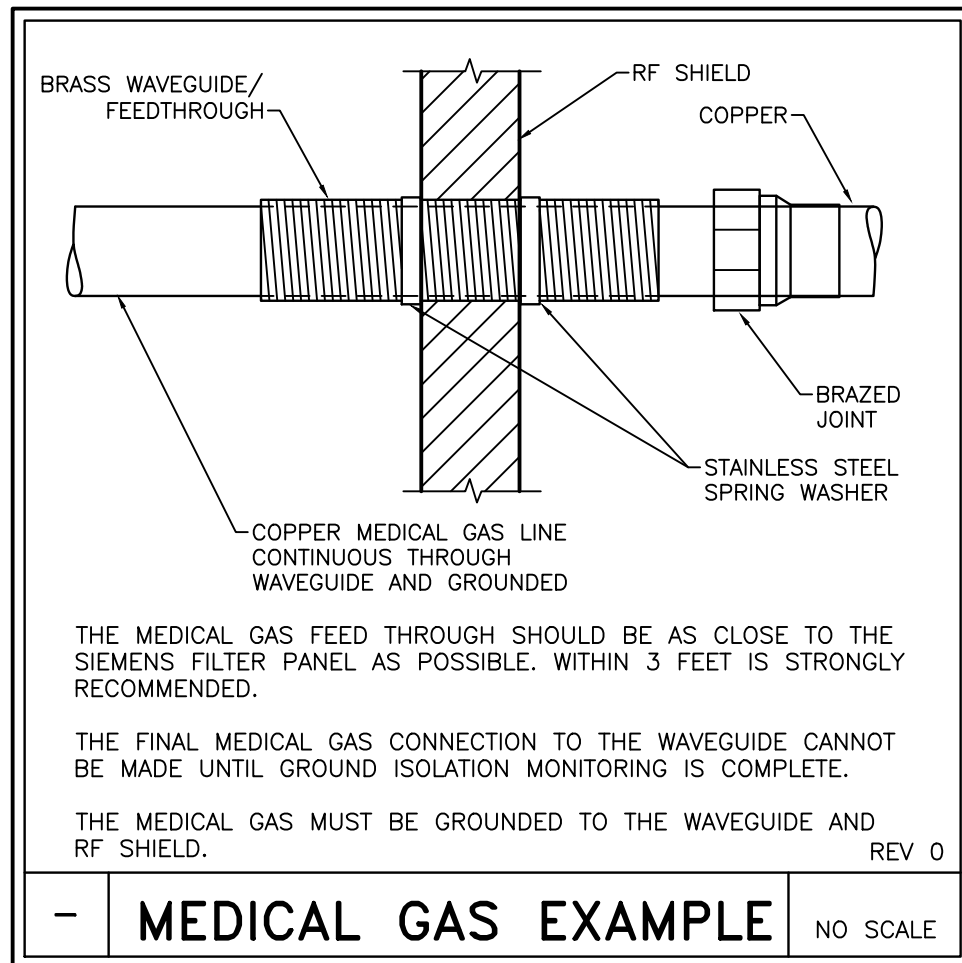
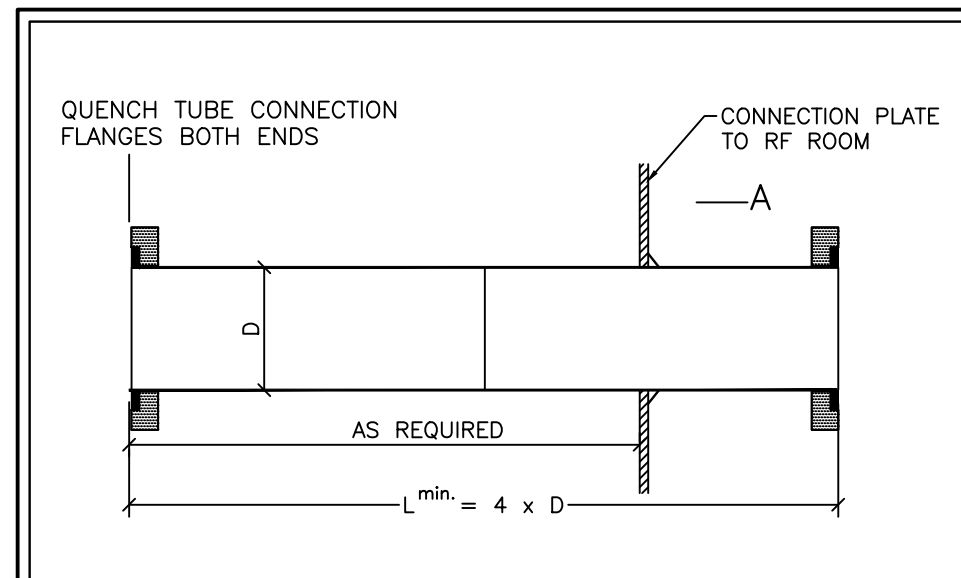


IMAGE QUALITY CONCERNS

BROADBAND RF NOISE IS A SINGLE TRANSIENT OR CONTINUOUS SERIES OF TRANSIENT DISTURBANCES CAUSED BY AN ELECTRICAL DISCHARGE. LOW HUMIDITY ENVIRONMENTAL CONDITIONS WILL HAVE HIGHER PROBABILITY OF ELECTRICAL DISCHARGE. THE ELECTRICAL DISCHARGE CAN OCCUR DUE TO ELECTRICAL ARCING OR MERELY STATIC DISCHARGE. SOME POTENTIAL SOURCES CAPABLE OF PRODUCING ELECTRICAL DISCHARGE INCLUDE:

- LOOSE HARDWARE/FASTENERS-VIBRATION OR MOVEMENT (ELECTRICAL CONTINUITY MUST ALWAYS BE MAINTAINED).
- FLOORING MATERIAL INCLUDING RAISED ACCESS FLOORING (PANELS AND SUPPORT HARDWARE) AND CARPETING.
- ELECTRICAL FIXTURES (LIGHTING FIXTURES, TRACK LIGHTING, EMERGENCY LIGHTING, BATTERY CHARGERS, OUTLETS).
- DUCTING FOR HVAC AND CABLE ROUTING.
- RF SHIELD SEALS (WALLS, DOORS, WINDOWS, ETC.).

REV 0



RF DOOR OPENING

IN THE EVENT OF A CATASTROPHIC FAILURE OF THE QUENCH VENT DURING A QUENCH, PRESSURE BUILT UP MAY PREVENT OPENING A DOOR THAT OPENS INTO THE RF ROOM, PREVENTING EVACUATION FROM LIFE THREATENING CONDITIONS.

FOR THIS REASON THE RF DOOR SHOULD OPEN TO THE OUTSIDE OF THE RF ROOM. IF THE DOOR CANNOT OPEN OUT FROM THE RF ROOM, OTHER APPROPRIATE MEANS HAVE TO BE PROVIDED SO THAT THE RF ROOM DOOR IS NOT PREVENTED FROM OPENING DUE TO PRESSURE.

IF THE DOOR OPENS INTO THE RF ROOM, A 24"x24" OPENING FOR PRESSURE EQUALIZATION INTO THE RF ROOM MUST BE INSTALLED. THIS IS MANDATORY. THIS IS NOT AN ESCAPE HATCH. THE PURPOSE OF THE OPENING IS TO RELIEVE PRESSURE AND ALLOW THE MAIN DOOR TO BE OPENED SO THAT OCCUPANTS CAN BE EVACUATED.

THE OPENINGS WILL HAVE PANELS INSTALLED IN THE RF ROOM OR THE DOOR THAT CAN BE UNLOCKED AND OPENED TO THE OUTSIDE IN CASE OF EMERGENCY. THESE PANELS REQUIRE AN RF SEALED INSTALLATION. AFTER OPENING THE PANEL, THE OUTLET SHOULD MEASURE AT LEAST 24"x24". WHEN USING RECTANGULAR PANELS, THE SHORTER SIDE SHOULD MEASURE OF MINIMUM OF 24".

TO ENSURE UNOBSTRUCTED VENTING, THIS OPENING CANNOT BE SUBDIVIDED. THIS MEANS THAT, FOR EXAMPLE, RF SEALED HONEYCOMB GRIDS ARE NOT PERMITTED.

EASY REMOVAL OF THE PANEL BY A PERSON HAS TO BE ENSURED AND A MINIMUM DISTANCE OF 40" TO A FIXED OBJECT MUST BE MAINTAINED. THE PANEL SHOULD BE INSTALLED IN AN ACCESSIBLE LOCATION AND ALLOW ESCAPE OF THE LOW DENSITY HELIUM.

AS AN ALTERNATIVE TO AN OUTSWING DOOR, THE STATIONARY OBSERVATION WINDOW IS REPLACED BY A WINDOW OPENING INTO THE CONTROL AREA OR THE DOOR IS REPLACED WITH AN RF SEALED SLIDING DOOR. IT SHOULD BE ENSURED THAT THE DOOR CLOSING IN A WAY THAT ALLOWS IT TO MOVE AWAY FROM THE FRAME IN CASE OF OVERPRESSURE.

IF THE DOOR OPENS TO THE OUTSIDE, THE OPENING IN THE RF ROOM IS STILL RECOMMENDED.

THE RF ROOM MANUFACTURER CAN PROVIDE YOU WITH ADDITIONAL RF SEALED ROOM OPENINGS THAT LEAD DIRECTLY TO THE OUTSIDE. HOWEVER, THESE OPENINGS ARE ALSO CONDUITS FOR NOISE GENERATED OUTSIDE THE RF ROOM. UNOBSTRUCTED FLOW THROUGH THIS PIPE MUST BE GUARANTEED.

REV 0

SAFETY INFORMATION - PRESSURE EQUALIZATION SCALE: NONE

RF SHIELDING

1) THE EXAMINATION AREA MUST BE SHIELDED TO PROVIDE A REDUCTION OF RADIO FREQUENCY WAVES EMANATING FROM EXTERNAL TRANSMITTERS. THE REQUIRED ATTENUATION IS 90dB IN THE FREQUENCY RANGE OF 15-128 MHz. IF CO-SITING TWO SYSTEMS EACH ROOM SHOULD BE 100 dB.

2) THE RF SHIELD MUST BE TESTED BEFORE AND AFTER MAGNET PLACEMENT IN THE RF ROOM AND AFTER THE SIEMENS RF FILTER PANEL IS INSTALLED. THE RF-SHIELDING MUST BE INSULATED FROM ALL GROUNDS SUCH THAT THE ONLY GROUND IS THE SINGLE POINT GROUND ON THE OUTSIDE OF THE RF-ROOM WALL. RESISTANCE ≥ 100 OHMS.

3) ALL ELECTRICAL LINES INTO THE RF ROOM MUST BE ROUTED THROUGH RF FILTERS (PROVIDED BY RF SHIELDING SUPPLIER). ALL ELECTRICALLY NON-CONDUCTIVE SUPPLY LINES (E.G. FIBER OPTIC CABLES, OR HOSES) INTO THE RF ROOM MUST BE ROUTED THROUGH RF SEALED WAVE GUIDES (PROVIDED BY RF SHIELDING SUPPLIER).

4) FOR PRESSURE EQUALIZATION PURPOSES THE RF DOOR SHOULD OPEN TO THE OUTSIDE OF THE RF ROOM. AS AN ALTERNATIVE A 24"x24" OPENING IN THE RF ROOM FOR PRESSURE EQUALIZATION IS REQUIRED.

REV 1

RF SHIELDING SCALE: NONE

SHIELDING GENERAL NOTES

1) SIEMENS REQUESTS THAT THE SHIELDING MANUFACTURER(S) SUBMIT FINAL SHOP DRAWINGS TO SIEMENS FOR REVIEW PRIOR TO THEIR INCLUSION IN CONSTRUCTION DOCUMENTS. SIEMENS SHALL BE COPIED ON ALL FIELD ORDER CHANGES CONCERNING CHANGES IN RF AND MAGNETIC SHIELDING CONDITIONS, CONFIGURATION AND SPECIFICATION. THE RF AND MAGNETIC SHIELDING CONTRACTOR(S) SHALL FURNISH "AS BUILT" SCALED AND DIMENSIONED PLANS REFLECTING ANY AND ALL FIELD ORDER CHANGES PRIOR TO THE COMPLETION OF THE CONSTRUCTION DOCUMENTS.

2) ALL CHANGES TO SIEMENS RECOMMENDED OPENINGS AND PENETRATIONS SHALL BE APPROVED BY THE SIEMENS PROJECT MANAGER PRIOR TO THE COMPLETION OF THE CONSTRUCTION DOCUMENTS.

3) THE SIZE, LOCATION, AND DIMENSIONS OF ANY MAGNETIC SHIELDING REQUIRED HAS BEEN DETERMINED BY SIEMENS. THIS INFORMATION HAS BEEN SUPPLIED TO THE MAGNETIC SHIELDING FABRICATOR TO DESIGN THE STRUCTURAL SUPPORT SYSTEM REQUIRED FOR THE MAGNETIC SHIELDING MATERIAL.

REV 0

EXAM ROOM INTERIOR NOTES

1) ONLY NON-MAGNETIC MATERIALS ARE TO BE USED AND INSTALLED IN THE RF ROOM. SEE CONSTRUCTION REQUIREMENTS.

2) A SUSPENDED CEILING MUST BE STATICALLY SUSPENDED, NOT SUSPENDED WITH MOVABLE CLAMPS, SPRINGS, ETC.

3) RODS IN SUSPENDED CEILINGS MUST BE INSTALLED SECURELY. GALVANIC CONTENT BETWEEN THE RODS MUST BE GUARANTEED, THEY MUST NOT JUST LIE ON TOP OF ONE ANOTHER. A WIRE JUMPER BETWEEN RODS MAY BE USEFUL.

4) ELECTRICAL WIRING, FOR AMBIENT LIGHTS FOR EXAMPLE, MUST NOT SIMPLY REST ON THE SUSPENDED CEILING, THEY MUST BE FASTENED OR INSIDE A CONDUIT TO PREVENT MOTION.

REV 1

EXAM ROOM INTERIOR NOTES SCALE: NONE

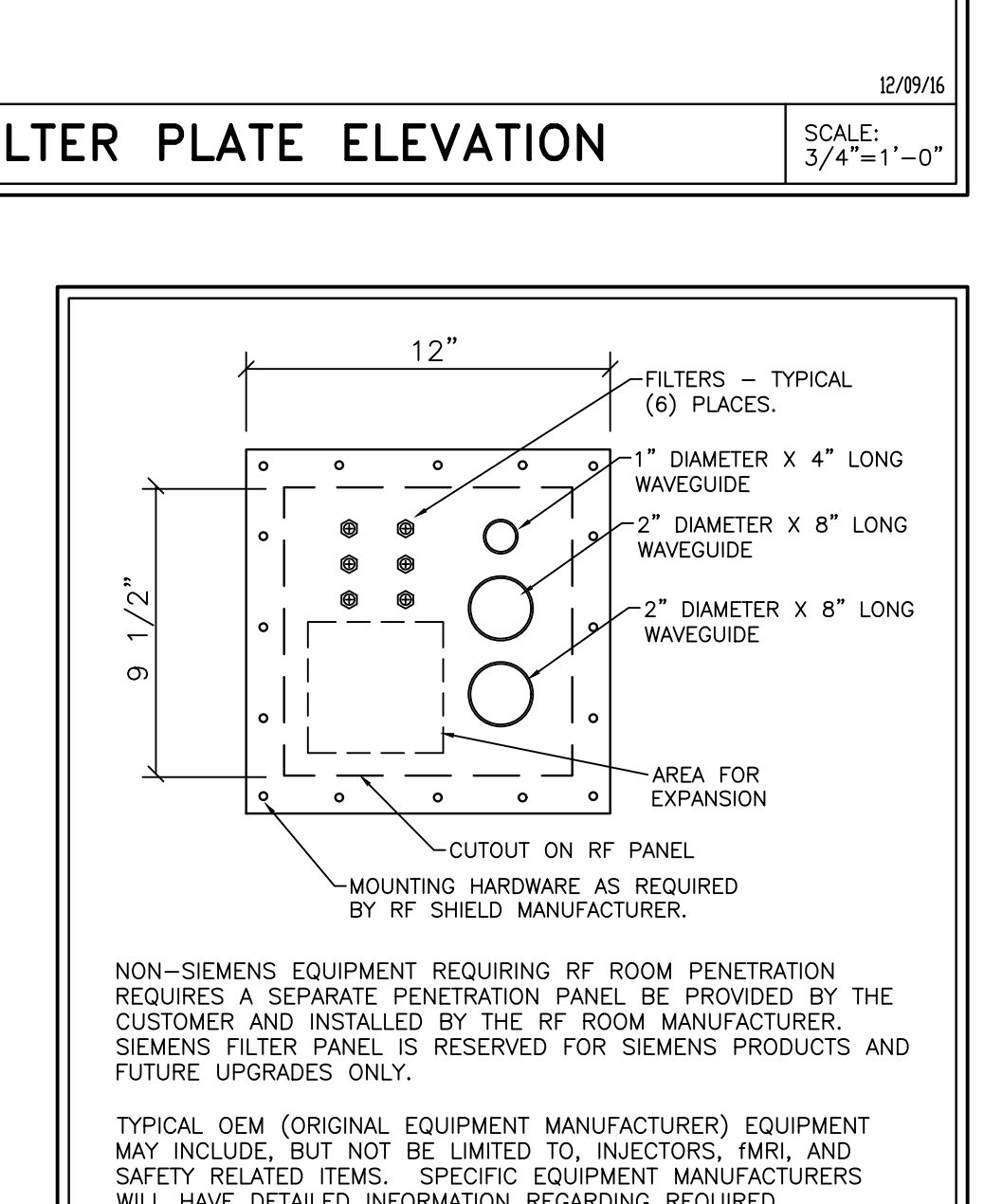
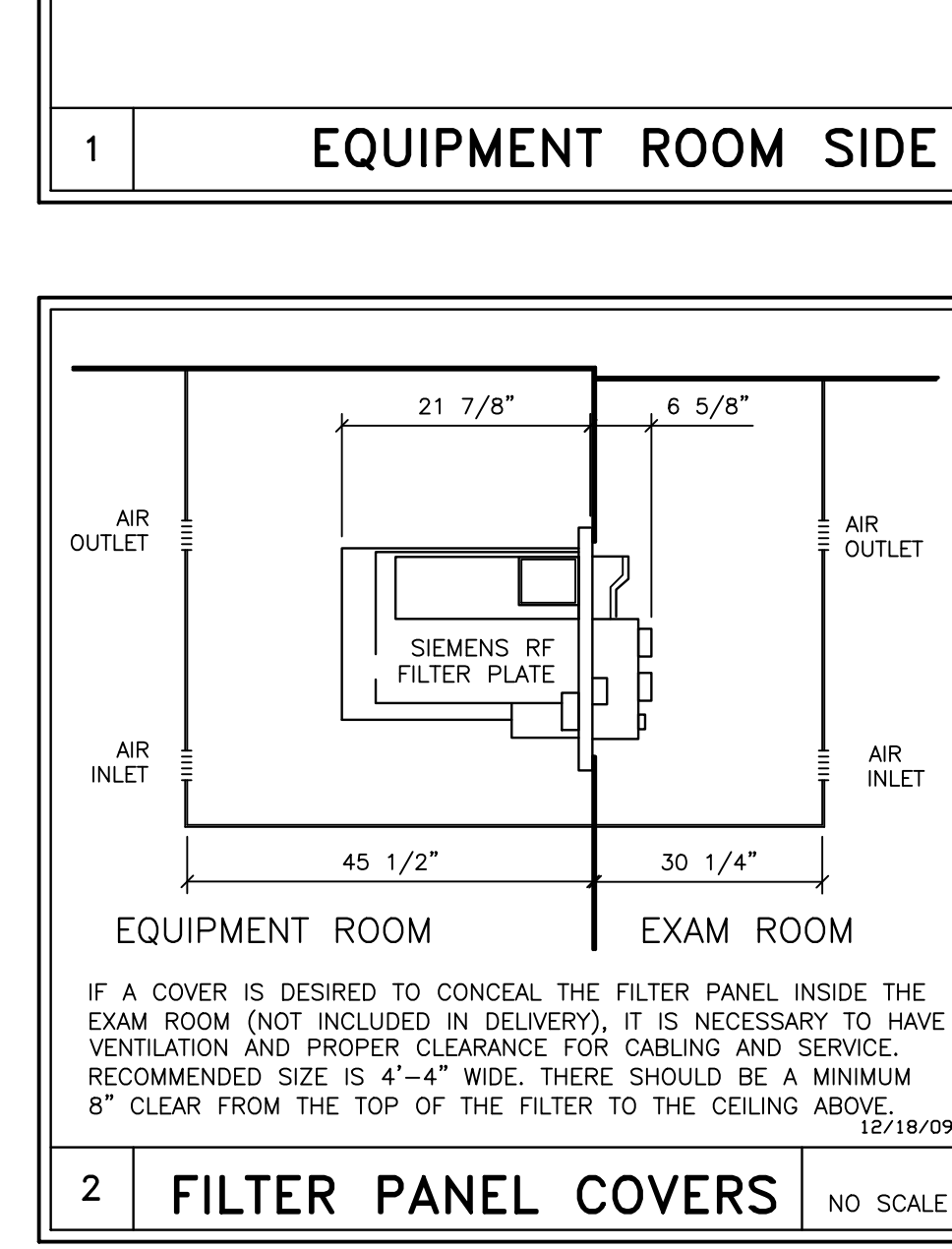
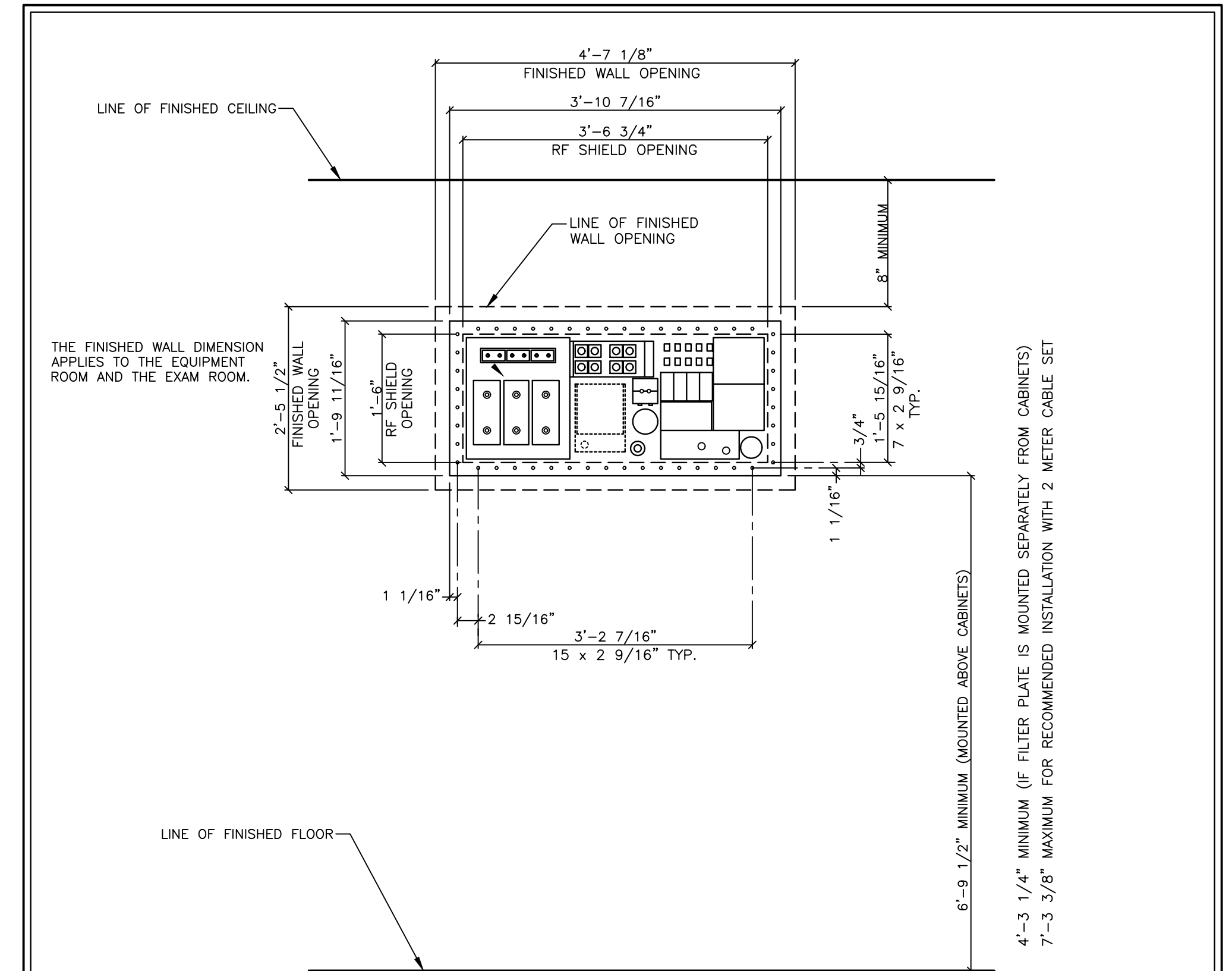
FILTER PLATE GENERAL NOTES

1) STRUCTURAL SUPPORT AND INTEGRATION OF THE SIEMENS SUPPLIED AND INSTALLED FILTER PLATE WITH MAGNETIC AND RF SHIELDING SHALL BE SPECIFIED, DETAILED AND NOTED BY THE RF AND MAGNETIC SHIELDING MANUFACTURER(S) WITH OVERALL COORDINATION WITH SIEMENS SITE SPECIFIC RECOMMENDATIONS TO BE THE RESPONSIBILITY OF THE ARCHITECT OF RECORD.

2) THE FILTER PLATE FRAME, RF FILTER PLATE BLANK, RF GASKET AND MOUNTING HARDWARE FOR THE PURPOSES OF TESTING THE INTEGRITY OF THE RF ENCLOSURE PRIOR TO THE INSTALLATION OF THE SIEMENS SUPPLIED AND INSTALLED RF FILTER PLATE SHALL BE PROVIDED AND INSTALLED BY THE SHIELDING CONTRACTOR(S) UNLESS SPECIFIED OTHERWISE.

REV 0

FILTER PLATE GENERAL NOTES SCALE: NONE



SYSTEM SPECIFICATION STATUS

PLEASE NOTE: CURRENT STATUS IS DRAFT

SIEMENS RESERVES THE RIGHT TO MAKE CHANGES AND OTHER MODIFICATIONS BASED UPON, BUT NOT LIMITED TO, NEW TECHNICAL DEVELOPMENTS. UNTIL RELEASE OF THE PLANNING GUIDELINE, CONTENT OF PRELIMINARY AND FINAL PLANNING IS SUBJECT TO CHANGE AND MODIFICATION.

ATTENTION:

- THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.

- THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.

- THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

SIEMENS

MAGNETOM ALTEA

TYPICAL FINAL DRAWING SET

THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.

PROJECT #: **19073**

SHEET: 4 OF 10

DRAWN BY: B. HERRMANN

SHEET: **A-502**

ALL RIGHTS ARE RESERVED.

SCALE: AS NOTED REF. #: --- DATE: N/A

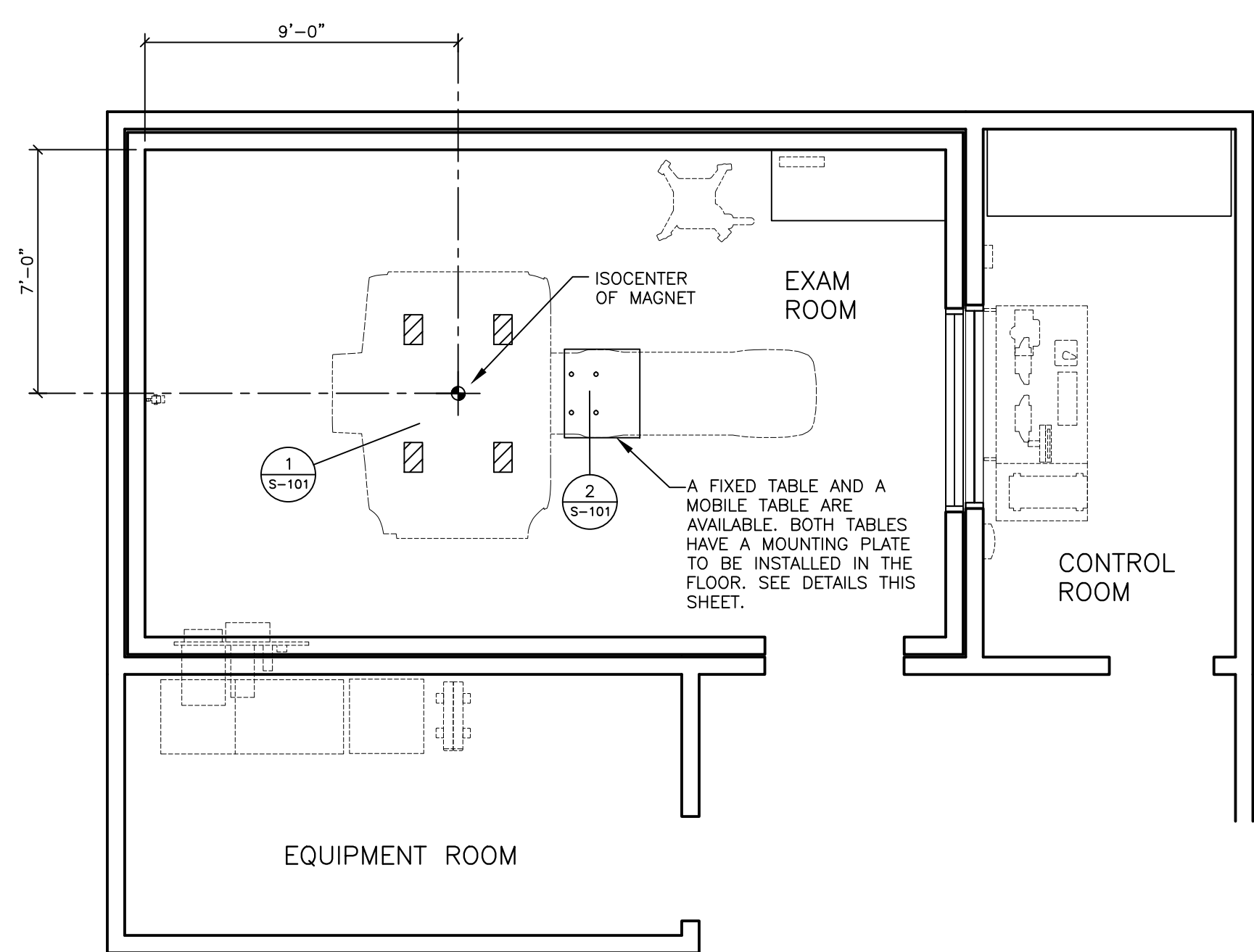
△ N/A TYPICAL DRAWING SET

SYM DATE DESCRIPTION

-ISSUE BLOCK-

ALTEA REV D

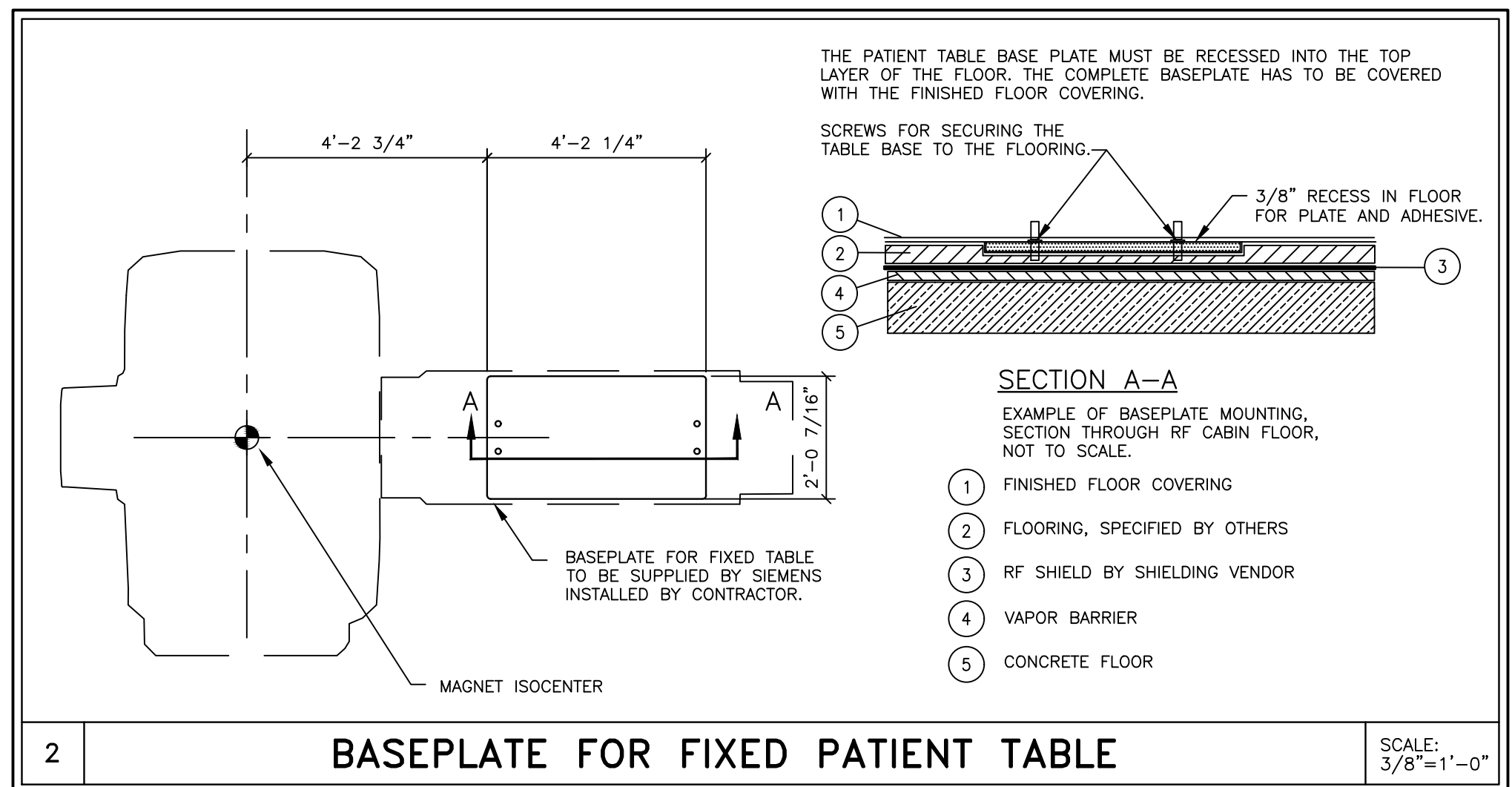
REFERENCE DOCUMENT - NOT FOR CONSTRUCTION



NOTE: FOR THE WEIGHTS OF ALL SIEMENS EQUIPMENT SHOWN ON THIS PLAN, SEE THE "EQUIPMENT LEGEND" ON SHEET A-101.

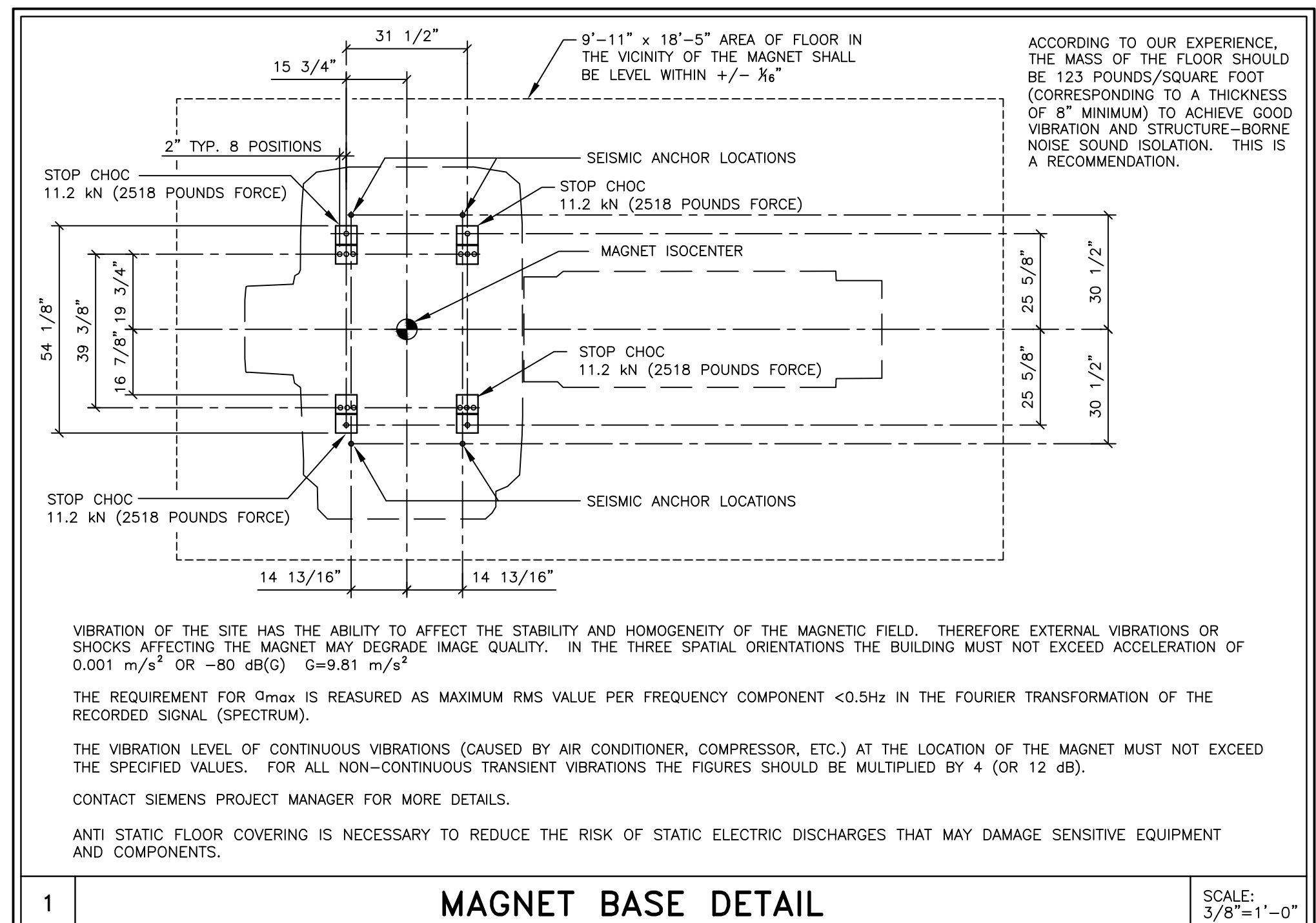
STRUCTURAL FLOOR PLAN

SCALE: 1/4" = 1'-0"



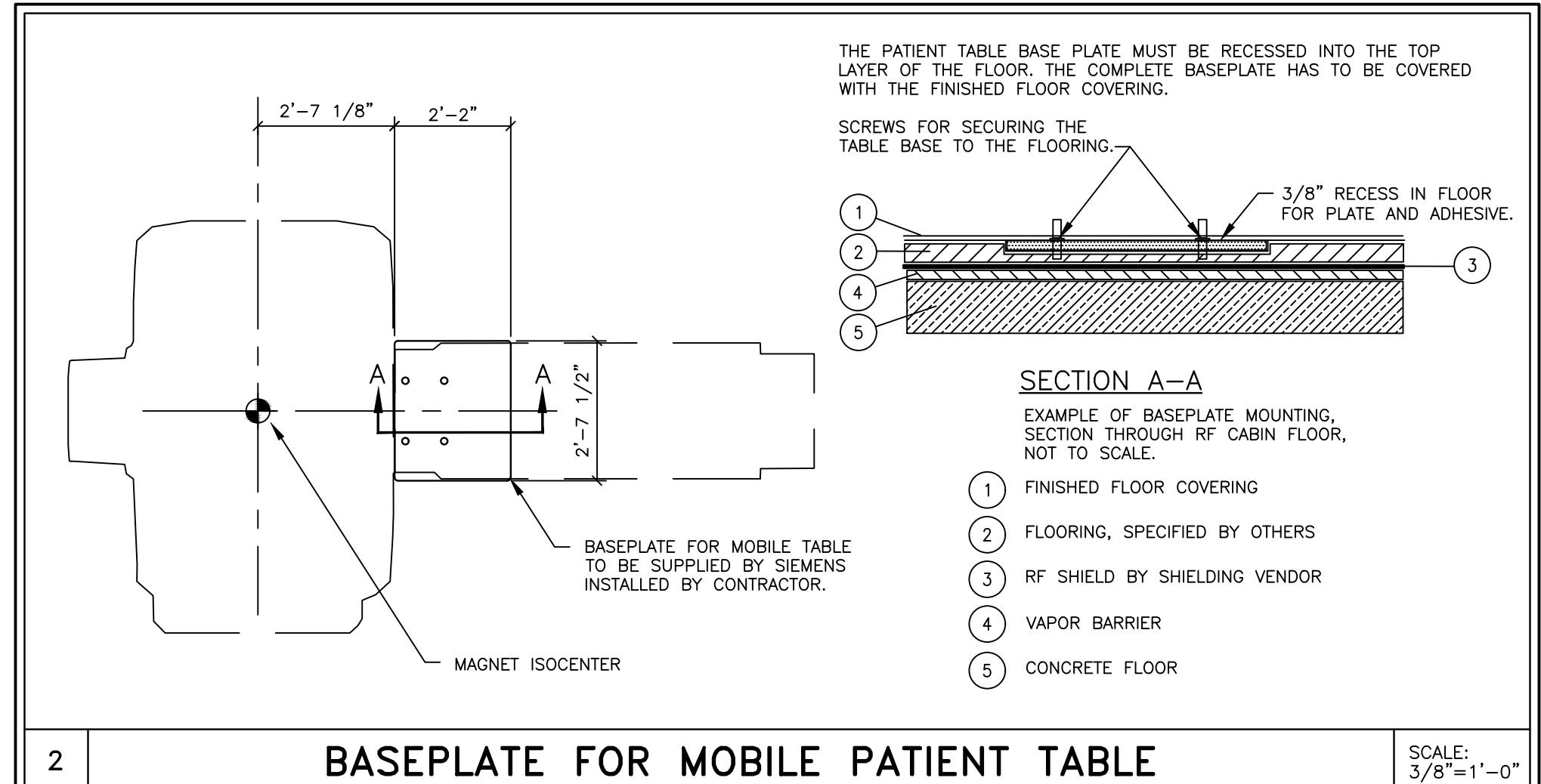
BASEPLATE FOR FIXED PATIENT TABLE

SCALE: 3/8"=1'-0"



MAGNET BASE DETAIL

SCALE: 3/8"=1'-0"



BASEPLATE FOR MOBILE PATIENT TABLE

SCALE: 3/8"=1'-0"

STRUCTURAL NOTES

- 1) THE CUSTOMER/CONTRACTOR SHALL FURNISH AND INSTALL ALL STRUCTURAL SUPPORT MEMBERS AND NEEDED HARDWARE FOR THE INSTALLATION OF THE SIEMENS EQUIPMENT.
- 2) THE OVERHEAD STRUCTURAL SUPPORT SYSTEM SHALL BE FIXED, RIGID AND BRACED FOR SWAY.
- 3) ALL STRUCTURAL SUPPORT MEMBERS SHALL BE TRUE, SQUARE, LEVEL, PARALLEL AND COPLANAR WITH RESPECT TO EACH OTHER, WITH A HORIZONTAL STRUCTURAL SUPPORT MEMBER TO BE LOCATED AND SET WITH A TRANSIT.
- 4) ALL STRUCTURAL SUPPORT DETAILS SHOWN ARE SAMPLE DETAILS BASED UPON TYPICAL AND STANDARD BUILDING PRACTICES AND ARE NOT INTENDED AS ACTUAL CONSTRUCTION DETAILS. ALL CONSTRUCTION DETAILS AND SUPPORT CALCULATIONS SHALL BE PREPARED BY A PROFESSIONAL STRUCTURAL ENGINEER AT THE CUSTOMER'S EXPENSE. IN THE EVENT AN EXISTING SUPPORT SYSTEM IS TO BE USED, IT WILL BE THE CUSTOMER'S RESPONSIBILITY TO VERIFY THE INTEGRITY OF THAT SYSTEM.
- 5) MOUNTING PLATES, FRAMES, AND HARDWARE SUPPLIED BY SIEMENS AS DETAILED IN THIS DRAWING SET ARE INSTALLED BY SIEMENS UNLESS OTHERWISE REQUIRED. ANY DEVIATION FROM THE PROVIDED MATERIALS OR MOUNTING METHODS MUST BE DESIGNED AND DOCUMENTED BY THE STRUCTURAL ENGINEER OF RECORD. ALTERNATE MOUNTING MATERIALS (I.E. ANCHORS, THREADED ROD, BACKING PLATES, ETC.) MUST BE SUPPLIED BY THE CUSTOMER/CONTRACTOR. SIEMENS MAY REQUIRE ASSISTANCE FROM THE CUSTOMER/CONTRACTOR WITH INSTALLATION WHEN UTILIZING ALTERNATE MOUNTING MATERIALS.
- 6) ALL CEILING FIXTURES (I.E. AIR SUPPLY GRILLES, AIR RETURN GRILLES, EXHAUST GRILLES, SPRINKLER HEADS, INCANDESCENT AND FLUORESCENT LIGHT FIXTURES, INTERCOM SPEAKERS, MEDICAL GAS COLUMNS, ETC.) SHALL BE INSTALLED FLUSH MOUNTED WITH THE FINISHED CEILING TO PROVIDE FREE AND UNRESTRICTED TRAVEL OF THE SMS CEILING MOUNTED EQUIPMENT.
- 7) THE STRUCTURAL PLANNING AS SHOWN ON THE 1/4" STRUCTURAL PLAN HAS BEEN COORDINATED WITH THE EQUIPMENT LOCATION AS SHOWN ON THE 1/4" EQUIPMENT LAYOUT PLAN. FOR THIS REASON, ANY DEVIATIONS FROM THE STRUCTURAL PLANNING AS SHOWN MUST BE APPROVED BY SMS PLANNING DEPARTMENT.
- 8) THE STRUCTURAL ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR THE DESIGN AND DETAIL OF FLOOR, WALL AND CEILING STRUCTURES IN ACCORDANCE WITH THE WEIGHTS, MOMENTS AND FORCES AS SHOWN ON OUR STRUCTURAL CALCULATIONS, OR INFORMATION, IN CONSIDERATION OF FORCES AS DETERMINED PER LOCAL GOVERNING BUILDING CODES.

SYSTEM SPECIFICATION STATUS

PLEASE NOTE: CURRENT STATUS IS DRAFT

SIEMENS RESERVES THE RIGHT TO MAKE CHANGES AND OTHER MODIFICATIONS BASED UPON, BUT NOT LIMITED TO, NEW TECHNICAL DEVELOPMENTS. UNTIL RELEASE OF THE PLANNING GUIDELINE, CONTENT OF PRELIMINARY AND FINAL PLANNING IS SUBJECT TO CHANGE AND MODIFICATION.

CEILING HEIGHTS	
EXAM ROOM	7'-11" MINIMUM
CONTROL ROOM	6'-11" MINIMUM
EQUIPMENT ROOM	7'-3" MINIMUM

SYM	DATE	DESCRIPTION
△	N/A	TYPICAL DRAWING SET
-ISSUE BLOCK-		

SIEMENS	
MAGNETOM ALTEA	
TYPICAL FINAL DRAWING SET	
PROJECT #: 19073	
SHEET: S-101	
THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.	
ALL RIGHTS ARE RESERVED.	
SCALE: AS NOTED	REF. #: ---
SHEET 5 OF 10	DRAWN BY: B. HERRMANN
DATE: N/A	

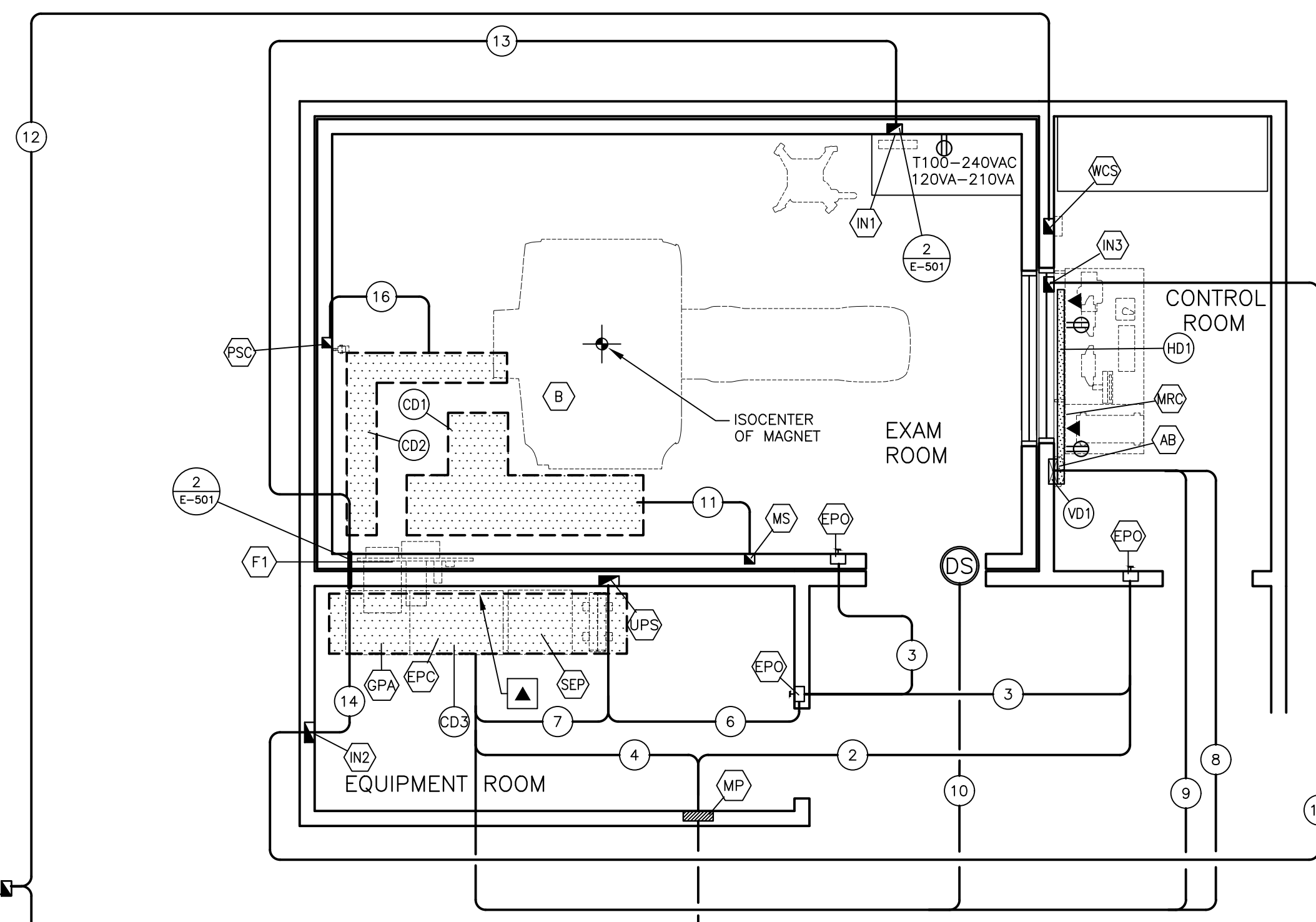
ATTENTION:

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- THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.
- THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

ALTEA
REV D



480 VOLT, 80 AMP 3-PHASE POWER FROM FACILITY.

TWO DUPLEX OUTLETS MUST BE PROVIDED IN THE EQUIPMENT ROOM FOR SERVICE PURPOSES.

DEDICATED POWER SOURCE, SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR. SEE "POWER SCHEDULE".

ELECTRICAL RACEWAY PLAN

SCALE: 1/4" = 1'-0"

SYMBOLS	
ALL MAY NOT APPLY	
	CAUTION OR WARNING
	CRITICAL NOTE(S)
	PANEL OR ENCLOSURE BY CUSTOMER/CONTRACTOR
	OPENING IN RACEWAY OR TRENCH/DUCT
	PULLBOX IN (FLOOR/WALL/CEILING)
	OPENING IN ACCESS FLOORING
	RF DOOR SWITCH - MCMaster-CARR SUPPLY ROLLER LIMIT SWITCH 7076k14 PROVIDED BY CONTRACTOR, AND MOUNTED AT TOP OF DOOR. COORDINATE WITH SIEMENS PROJECT MANAGER.
	(EPO) EMERGENCY POWER OFF BUTTON
	CEILING DUCT
	SURFACE MOUNTED DUCT
	VERTICAL DUCT
	ETHERNET CONNECTION TO CUSTOMER'S INFORMATION SYSTEMS NETWORK IN AN ACCESSIBLE LOCATION (VERIFY WITH SIEMENS PROJECT MANAGER).
	110 VOLT, 20 AMP, HOSPITAL GRADE DUPLEX OUTLET LOCATED NEAR THE ETHERNET CONNECTION.

REV 2

ELECTRICAL LEGEND			
SYM	SIZE	DESCRIPTION	REMARKS
AS	3"	OPENING IN FACE OF VERTICAL DUCT 5'-0" ABOVE FINISHED FLOOR IN LOCATION TO BE COORDINATED WITH THE ARCHITECT.	ALARM BOX
AS	18" x 18"	LOCATION FOR CABLES TO DROP OUT OF BOTTOM OF RACEWAY.	ELECTRONICS CABINETS
AS	AS REQUIRED	LOCATION FOR CABLES TO DROP OUT OF BOTTOM OF RACEWAY.	MAGNET CABLE ACCESS
AS	---	EMERGENCY POWER OFF BUTTONS, MOUNTED WITH CENTERLINE AT 5'-0" ABOVE FINISHED FLOOR. ALL PARTS ARE TO BE NON-FERROUS INSIDE THE RF ROOM. EXACT LOCATIONS ARE TO BE VERIFIED WITH THE ARCHITECT OF RECORD.	SEE POWER SCHEDULE, SHEET E-102
AS	---	SIEMENS RF FILTER PANEL TO BE MOUNTED ON RF SHIELDED WALL.	FILTER PANEL
AS	AS REQUIRED	NON-FERROUS PULL BOX MOUNTED FLUSH WITH FINISHED WALL MOUNTED 2'-0" ABOVE FINISHED FLOOR. PROVIDE NEATLY FINISHED AND REMOVABLE COVER WITH CABLE EXIT. EXACT LOCATION TO BE COORDINATED WITH THE ARCHITECT.	INJECTOR POWER SUPPLY- MUST BE LOCATED OUTSIDE OF 5mT FIELD
AS	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL IN EQUIPMENT ROOM, MOUNTED 2'-0" ABOVE FINISHED FLOOR. PROVIDE NEATLY FINISHED AND REMOVABLE COVER WITH CABLE EXIT. EXACT LOCATION TO BE COORDINATED WITH THE ARCHITECT.	INJECTOR POWER SUPPLY
AS	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL IN CONTROL AREA, MOUNTED 2'-0" ABOVE FINISHED FLOOR. PROVIDE NEATLY FINISHED AND REMOVABLE COVER WITH CABLE EXIT. EXACT LOCATION TO BE COORDINATED WITH THE ARCHITECT.	INJECTOR CONTROL CONSOLE
AS	---	MAIN PANEL WITH MAIN BREAKER. EXACT LOCATION DETERMINED BY CUSTOMER/CONTRACTOR	SEE POWER SCHEDULE
AS	4" x 4"	OPENING IN FACE OF RACEWAY IN SHOWN LOCATION.	HOST COMPUTER
AS	AS REQUIRED	NON-FERROUS SINGLE GANG BOX MOUNTED FLUSH WITH FINISHED WALL MOUNTED 6'-0" ABOVE FINISHED FLOOR. PROVIDE NEATLY FINISHED AND REMOVABLE COVER WITH CABLE EXIT. EXACT LOCATION TO BE COORDINATED WITH THE ARCHITECT.	MAGNET STOP
AS	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL REFER TO HEIGHT CHART A-501-3. THE PULL BOX CAN BE MOUNTED AT APPROXIMATELY 5'-0" ABOVE THE FINISHED FLOOR IN MOST CASES, DEPENDING ON THE DISTANCE FROM THE MAGNET TO THE WALL.	PATIENT SUPERVISION CAMERA
AS	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOOR LINE IN SHOWN LOCATION PROVIDED WITH 2"Ø OPENING IN FINISHED COVER.	LIEBERT 9XT4 UPS
AS	24"x4"	ALUMINUM LADDER TRAY, MOUNTED AT HEIGHT COORDINATED WITH SIEMENS PROJECT MANAGER, IN THE EXAM ROOM, MAINTAINING 12" CLEARANCE ABOVE THE TRAY FOR ACCESS. CABLE LADDER IS REQUIRED TO SUPPORT INTERCONNECTING CABLES BETWEEN THE FILTER PANEL AND THE MAGNET. A 15" MINIMUM CLEARANCE IS REQUIRED BETWEEN THE LADDER TRAY AND THE RF FILTER PANEL (F1). WHEN ROUTING ALL RACEWAYS REFER TO DETAIL E-501/2 TAKING CARE SO THAT MAXIMUM CABLE LENGTHS ARE NOT EXCEEDED. DO NOT LOCATE THIS CABLE TRAY ABOVE THE MAGNET.	CABLE TRAY SEE DETAIL E-501/1
AS	12"x4"	ALUMINUM LADDER TRAY, MOUNTED AT HEIGHT COORDINATED WITH SIEMENS PROJECT MANAGER IN EXAM ROOM. A 12" SEPARATION BETWEEN CD1 AND CD2 MUST BE MAINTAINED. DO NOT LOCATE THIS CABLE TRAY ABOVE THE MAGNET.	CABLE TRAY SEE DETAIL E-501/1
AS	24"x4"	ALUMINUM LADDER TRAY, MOUNTED AT HEIGHT COORDINATED WITH SIEMENS PROJECT MANAGER IN EQUIPMENT ROOM MAINTAINING 12" CLEARANCE ABOVE THE TRAY FOR ACCESS. CABLE LADDER IS REQUIRED TO SUPPORT INTERCONNECTING CABLES BETWEEN THE EQUIPMENT ROOM AND THE RF FILTER PANEL (F1). AN 18" MINIMUM CLEARANCE IS REQUIRED BETWEEN THE LADDER TRAY AND THE FILTER PANEL.	CABLE TRAY SEE DETAIL E-501/1
AS	4" x 2"	HORIZONTAL DUCT SURFACE MOUNTED ON WALL IN CONTROL AREA AT FLOOR LINE AS SHOWN, FINISHED TO MATCH WALLS.	
AS	10" x 3-1/2"	VERTICAL DUCT MOUNTED FLUSH WITH FINISHED WALL IN CONTROL AREA FROM ABOVE FINISHED CEILING TO FLOOR LINE PROVIDED WITH REMOVABLE FINISHED COVERS.	
AS	AS PER NEC	CONDUIT FROM FACILITY POWER TO MAIN PANEL "MP".	SEE POWER SCHEDULE, SHEET E-102
AS	AS PER NEC	CONDUIT FROM "MP" TO "EPO".	SEE POWER SCHEDULE, SHEET E-102
AS	AS PER NEC	CONDUIT FROM "EPO" TO "EPO" TO BE NON-FERROUS WHEN INSIDE THE RF ROOM. CUSTOMER/CONTRACTOR IS TO PROVIDE RF FILTERS FOR ALL NON-SIEMENS WIRING.	SEE POWER SCHEDULE, SHEET E-102
AS	(1) 2"	CONDUIT FROM "MP" TO END AT "CD3" (EPC) VIA FLEX CONDUIT. THERE MUST BE A DIELECTRIC SEPARATION BETWEEN THE CONDUIT AND THE CONNECTION AT THE SIEMENS EPC CABINET.	SEE POWER SCHEDULE, SHEET E-102
AS	(1) 2"	CONDUIT FROM FACILITY POWER TO "WCH".	
AS	(1) 3/4"	CONDUIT FROM "EPO" TO "UPS".	
AS	(1) 2"	CONDUIT FROM "UPS" TO "CD3" (EPC)	MAXIMUM LENGTH 29 FEET
AS	(2) 2 1/2"	CONDUIT FROM "V1" (MRC) TO "CD3" (EPC).	NOT TO EXCEED 54 FT.
AS	(1) 1 1/2"	CONDUIT FROM "V1" (AB) TO "CD3" (EPC).	NOT TO EXCEED 60 FT.
AS	(1) 1/2"	CONDUIT FROM "DS" TO "CD3" (EPC).	NOT TO EXCEED 60 FT.
AS	(1) 3/4"	CONDUIT FROM "MS" TO "CD1" (WIRES TO MAGNET) TO BE NON-FERROUS WHEN INSIDE THE RF ROOM.	NOT TO EXCEED 25 FT.
AS	(1) 2"	CONDUIT FROM "WCH" TO "WCS".	NOT TO EXCEED 150 FEET
AS	(1) 2"	NON-FERROUS CONDUITS FROM NEAR "F1" TO "IN1" FOR INJECTOR CABLES.	NOT TO EXCEED 40 FEET
AS	(1) 2"	CONDUITS FROM NEAR FILTER LOCATION TO "IN2".	
AS	(1) 2"	CONDUIT FROM "IN2" TO "IN3" FOR INJECTOR CABLES.	
AS	(1) 1"	NON-FERROUS CONDUIT FROM "PSC" TO "CD1".	NOT TO EXCEED 150 FEET

CONTRACTOR SUPPLIED CABLES				
FROM	VIA	TO	DESCRIPTION	REMARKS
SOURCE	1	MP	(3) PHASE CONDUCTORS, (1) FULL SIZE EQUIPMENT GROUND WIRE TO BE SIZED BY ELECTRICAL CONTRACTOR/ENGINEER.	
MP	2	EPO	DETERMINED BY ELECTRICAL CONTRACTOR.	
EPO	3	EPO	DETERMINED BY ELECTRICAL CONTRACTOR.	
MP	4,CD3	EPC	(3) 2/0 AND (1) 2/0 EQUIPMENT GROUND, TO REDUCE EMI (INTERFERENCE) THE POWER CABLES MUST BE SHIELDED. THIS CAN BE ACHIEVED BY USING EMT, WHICH IS CONSIDERED A SHIELDING DEVICE. IF CABLES ARE RUN IN FREE AIR SHIELDED CONDUCTORS MUST BE USED.	LANDED BY ELECTRICAL CONTRACTOR
SOURCE	5	WCH	(3) PHASE CONDUCTORS, (1) FULL SIZE EQUIPMENT GROUND WIRE TO BE SIZED BY ELECTRICAL CONTRACTOR/ENGINEER.	
EPO	6	UPS	DETERMINED BY ELECTRICAL CONTRACTOR.	6 FOOT TAILS
WCH	12	WCS	DATA CABLE PROVIDED BY CHILLER MANUFACTURER, INSTALLED BY CONTRACTOR.	

CEILING HEIGHTS	
EXAM ROOM	7'-11" MINIMUM
CONTROL ROOM	6'-11" MINIMUM
EQUIPMENT ROOM	7'-3" MINIMUM

SYM	DATE	DESCRIPTION
△	N/A	TYPICAL DRAWING SET
-ISSUE BLOCK-		

ALTEA
REV D

SIEMENS

MAGNETOM ALTEA

TYPICAL FINAL DRAWING SET

PROJECT #: **19073**

SHEET: **E-101**

THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.

ALL RIGHTS ARE RESERVED.

SCALE: AS NOTED REF. #: ---

DATE: N/A

DRAWN BY: B. HERRMANN

ELECTRICAL NOTES

- 1) COMPLIANCE: ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA-70), O.S.H.A. REGULATIONS, AS WELL AS APPLICABLE REGULATIONS OF CITY, COUNTY, STATE AND FEDERAL AGENCIES. PROVIDE MATERIALS AND EQUIPMENT THAT COMPLY TO ANSI, IEEE AND NEMA STANDARDS, WHERE APPLICABLE. PROVIDE ONLY MATERIALS AND PRODUCTS THAT ARE UL LISTED AND LABELED. THE CUSTOMER'S/CONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF NATIONAL ELECTRICAL CODE.
- 2) QUALITY ASSURANCE: THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD TO INSURE THAT THE NEW WORK WILL FIT THE EXISTING STRUCTURE AS SHOWN ON THE DRAWINGS. SHOULD ANY CONDITIONS EXIST OR BE DISCOVERED THAT PREVENT THE INSTALLATION OF WORK AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO FABRICATION OF EQUIPMENT, OR THE PERFORMANCE OF ANY WORK THAT MAY BE AFFECTED. DO NOT ALTER DRAWINGS, DIMENSIONS, OR SPECIFICATIONS IN ANY WAY WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SIEMENS PROJECT MANAGER. ALL DIMENSIONS ARE FROM FINISHED SURFACES. CONDUIT AND PULL BOXES TO BE INSTALLED BY THE CUSTOMER/CONTRACTOR WITH LOCATIONS BEING FIELD VERIFIED BY SIEMENS PROJECT MANAGER.
- 3) POWER SUPPLY SOURCE: POWER SUPPLIES FOR SIEMENS HEALTHCARE EQUIPMENT SHALL BE DEDICATED CIRCUIT.
- 4) WORK FURNISHED BY CUSTOMER/CONTRACTOR: WORK NOT PROVIDED BY SIEMENS HEALTHCARE BUT SHOWN ON DRAWINGS TO BE FURNISHED AND INSTALLED BY CUSTOMER/CONTRACTOR INCLUDES THE FOLLOWING BUT IS NOT LIMITED TO UNLESS NOTED OTHERWISE: ELECTRICAL RACEWAYS AND DUCTS, WIRING TROUBLES, PULL BOXES, CONDUITS, CIRCUIT BREAKERS, EMERGENCY OFF BUTTONS, DOOR SWITCHES, WARNING LIGHTS, WIRING DEVICES, CONNECTORS, LIGHTING EQUIPMENT AND GROUNDING.
- 5) RACEWAY AND CONDUIT NOTES: ALL ITEMS IN THE MAGNET ROOM SHALL BE NON-FERROUS. ALL CONDUITS SHALL BE INSTALLED PER LATEST NATIONAL ELECTRICAL CODE. CONDUIT BODIES SHALL NOT BE USED, WHERE A CONDUIT ENTERS A BOX, FITTING, OR OTHER ENCLOSURE, AN INSULATED THROAT CONNECTOR SHALL BE PROVIDED TO PROTECT THE WIRE FROM ABRASION. KEEP RACEWAYS AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF FLUES OR STEAM AND HOT WATER PIPES. INSTALL RACEWAY RUNS ABOVE WATER AND STEAM PIPES PROVIDED THAT CABLE RUN DISTANCES ARE MAINTAINED. USE TEMPORARY CLOSURES TO PREVENT FOREIGN MATTER FROM ENTERING RACEWAY. CONDUIT RUNS ARE SHOWN SCHEMATICALLY. INSTALL CONDUIT WITH A MINIMUM OF BENDS IN THE SHORTEST PRACTICAL DISTANCE. CONSIDERING THE BUILDING CONSTRUCTION AND OBSTRUCTIONS, EXCEPT AS OTHERWISE INDICATED, THE CONTRACTOR SHALL MAKE CERTAIN THAT ANY CONDUIT/RACEWAY RUNS CONTAINING SIEMENS HEALTHCARE CABLES DO NOT EXCEED THE SPECIFIED MAXIMUM DISTANCES AS SHOWN ON THE ELECTRICAL DETAILS. PROVIDE ENCLOSED METAL SYSTEM (WIRE DUCT) WIRE DUCT RACEWAY SYSTEM WHERE SHOWN ON DRAWINGS WITH DIVIDERS TO SEPARATE THE DUCT (FOR POWER AND SIEMENS HEALTHCARE CABLES). DIVIDERS AND CROSSOVER PIECES TO BE PROVIDED AS NECESSARY. FOR UL SYSTEMS, THE CABLE TO CABLE AS WELL AS THE CIRCUIT TO CIRCUIT SEPARATION REQUIREMENT WAS EVALUATED DURING THE UL SYSTEM INVESTIGATION OF THIS EQUIPMENT. ADDITIONAL SEPARATION OF THE SYSTEM CABLE ASSEMBLIES INTO SEPARATE OR PARTITIONED RACEWAYS, UNLESS OTHERWISE NOTED, IS NOT NECESSARY TO INSURE SEPARATION OF CIRCUITS AS THEY CAN BE IN THE SAME RACEWAY. PROVIDE WIRE DUCT/RACEWAY WITH ACCESSIBLE REMOVABLE COVERS. LOCATIONS OF OPENINGS (I.E. ACCESS PANELS) TO BE CUT IN FIELD ARE TO BE COORDINATED WITH SIEMENS PROJECT MANAGER. ELECTRICAL PULL BOXES AND RACEWAY COVERS SHALL BE INSTALLED IN A MANNER TO ALLOW ACCESSIBILITY FOR INSTALLATION AND MAINTENANCE. IN-FLOOR TRENCH DUCT AND FLUSH FLOOR BOXES SHALL BE PROVIDED WITH FULLY GASKETED REMOVABLE COVERS. WHEN JUNCTION BOXES AND WIRE DUCT/RACEWAY ARE MOUNTED HIGHER THAN 14 FEET ABOVE FINISHED FLOOR, THE ELECTRICAL CONTRACTOR SHALL PROVIDE TWO ELECTRICIANS TO HELP THE SIEMENS INSTALL TEAM PULL SIEMENS SUPPLIED CABLES AT CUSTOMER EXPENSE. WHEN JUNCTION BOXES AND WIRE DUCT/RACEWAY ARE MOUNTED ABOVE A HARD CEILING (I.E. SHEET ROCK), A 24" x 24" ACCESS PANEL IS REQUIRED AT EACH JUNCTION BOX AND WITHIN 2 FEET OF EACH RACEWAY TRANSITION IN WIRE DUCT/RACEWAY. THERE MUST BE FREE AND CLEAR ACCESS TO JUNCTION BOXES AND WIRE DUCT/RACEWAY. WHEN ACCESS PANELS ARE LOCATED MORE THAN 3 FEET FROM JUNCTION BOXES AND WIRE DUCT/RACEWAY THE ELECTRICAL CONTRACTOR SHALL PROVIDE TWO ELECTRICIANS TO HELP SIEMENS INSTALL TEAM PULL SIEMENS SUPPLIED CABLES AT CUSTOMER EXPENSE. 6) WIRING: WIRING SHALL BE 600 VOLT CLASS, STRANDED TYPE THHN-THWN, SINGLE CONDUCTOR ANNEALED COPPER FOR A MAXIMUM OPERATING TEMPERATURE OF 75° C (165° F). SIZED AS INDICATED. THE CUSTOMER/CONTRACTOR SHALL LEAVE MINIMUM 10 FT. WIRE TAILS AT ALL OUTLET POINTS WITH WIRE IDENTIFICATION TAGGED AT BOTH ENDS FOR FINAL CONNECTION BY THE CUSTOMER/ELECTRICAL CONTRACTOR. 7) ALL CIRCUIT BREAKERS SHALL BE RATED FOR 25 KV RMS SHORT CIRCUIT RATING.

SYSTEM SPECIFICATION STATUS

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ATTENTION:

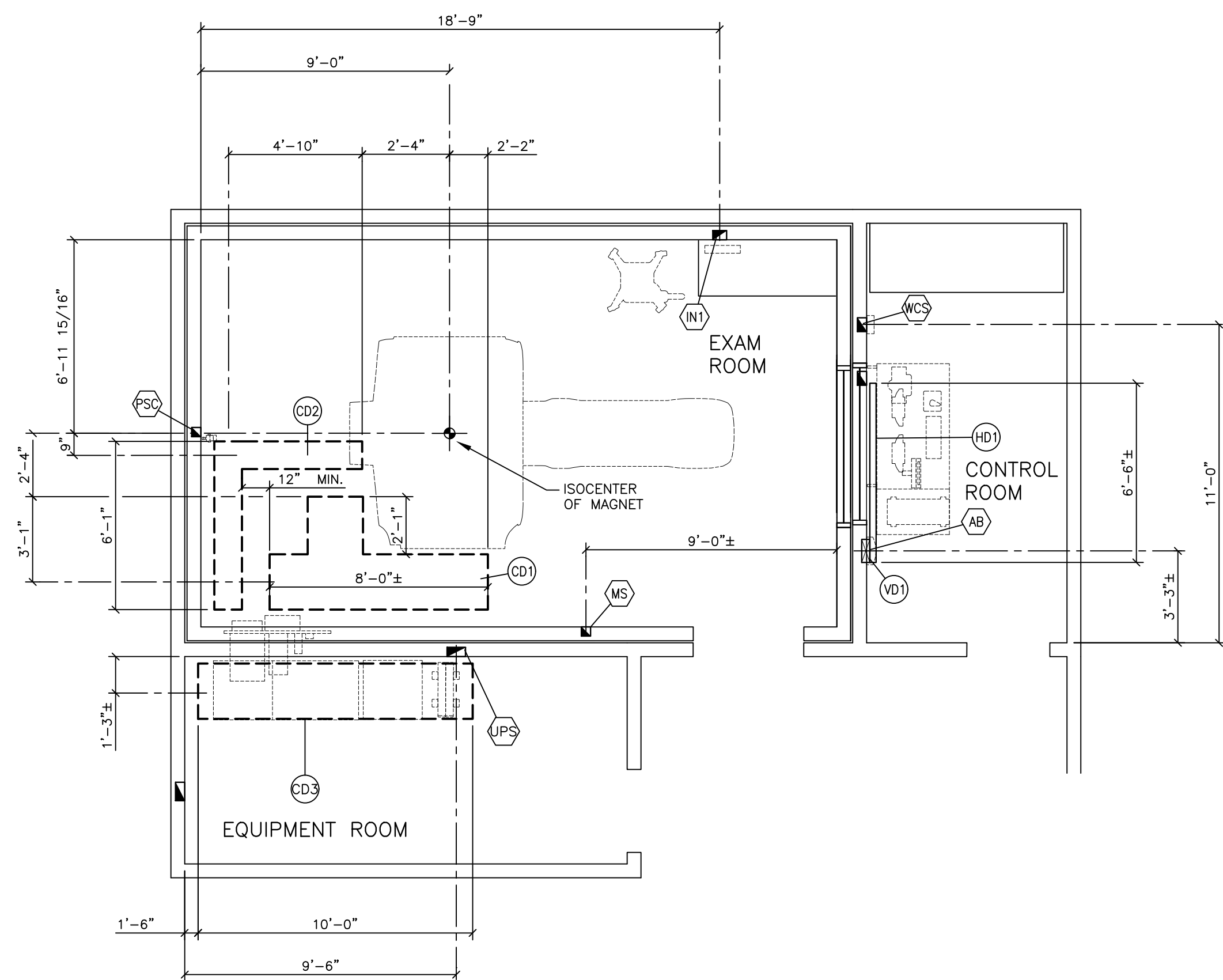
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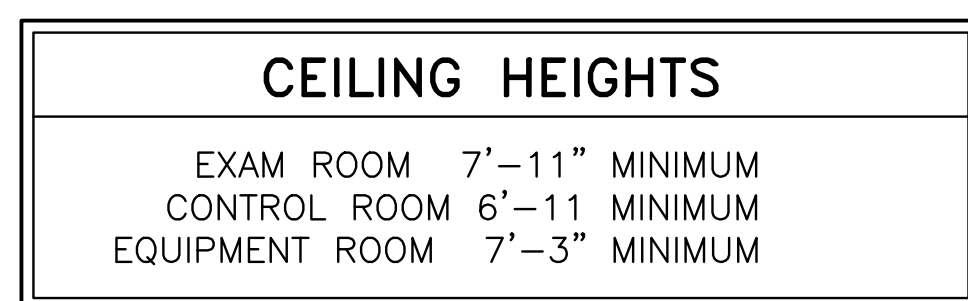
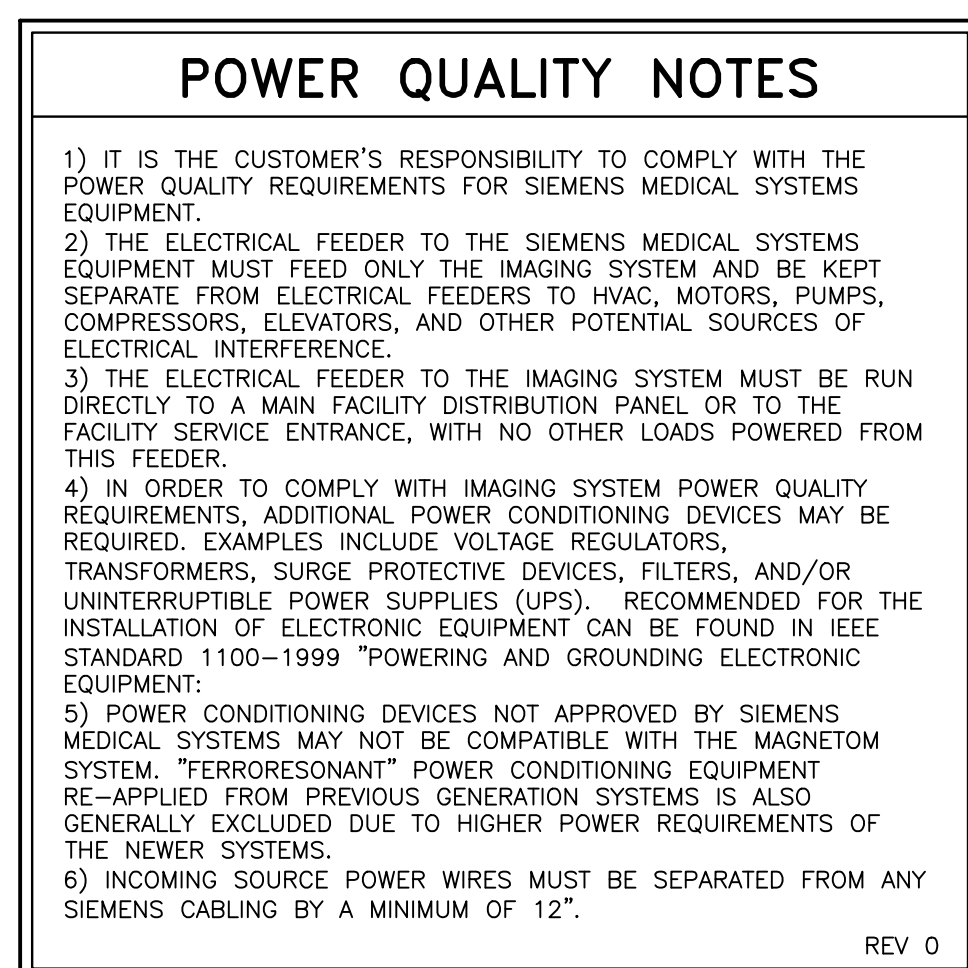
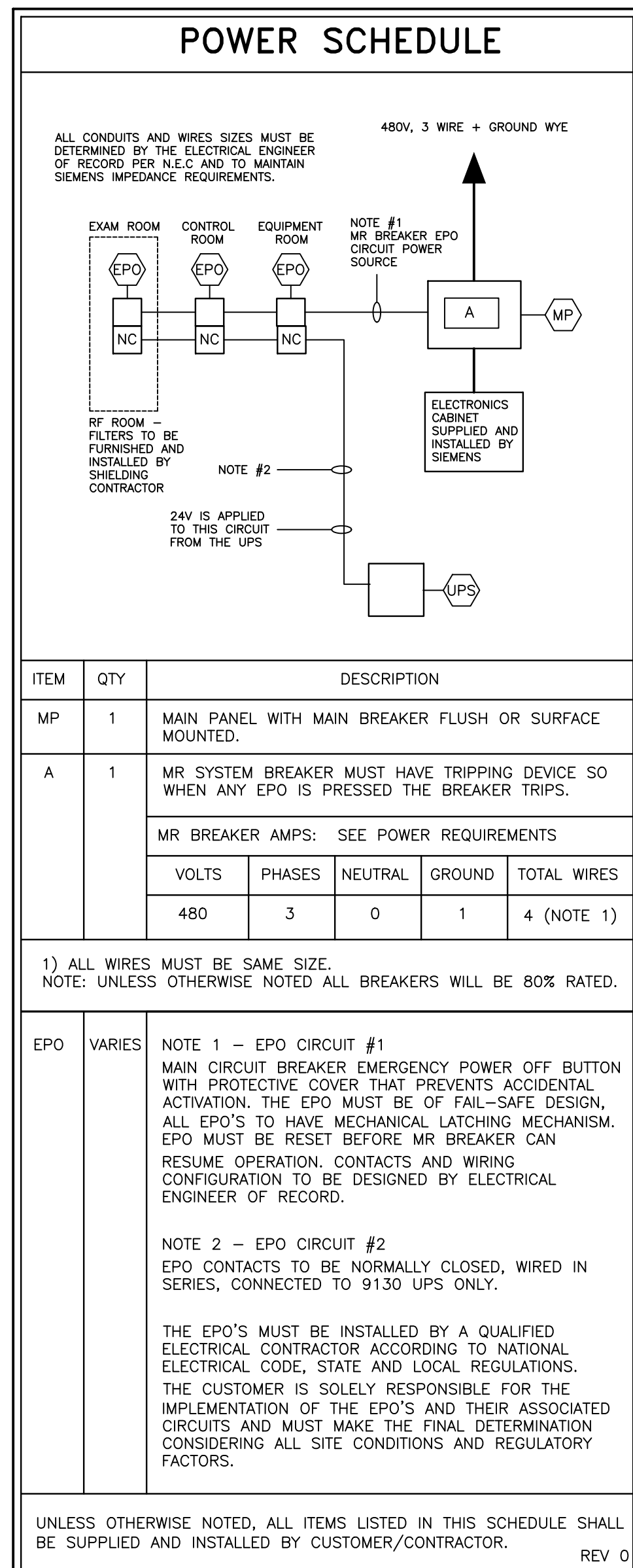
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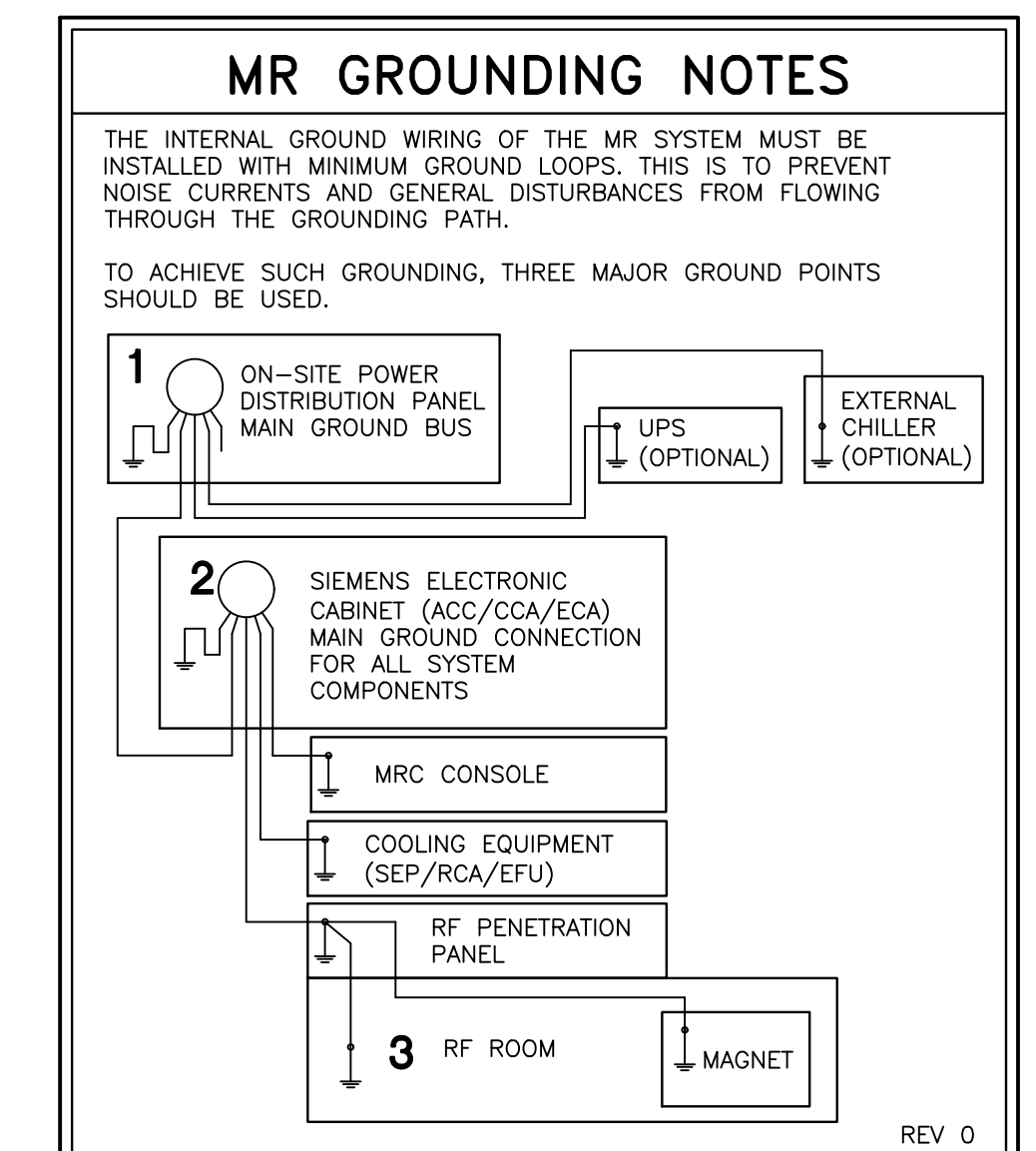
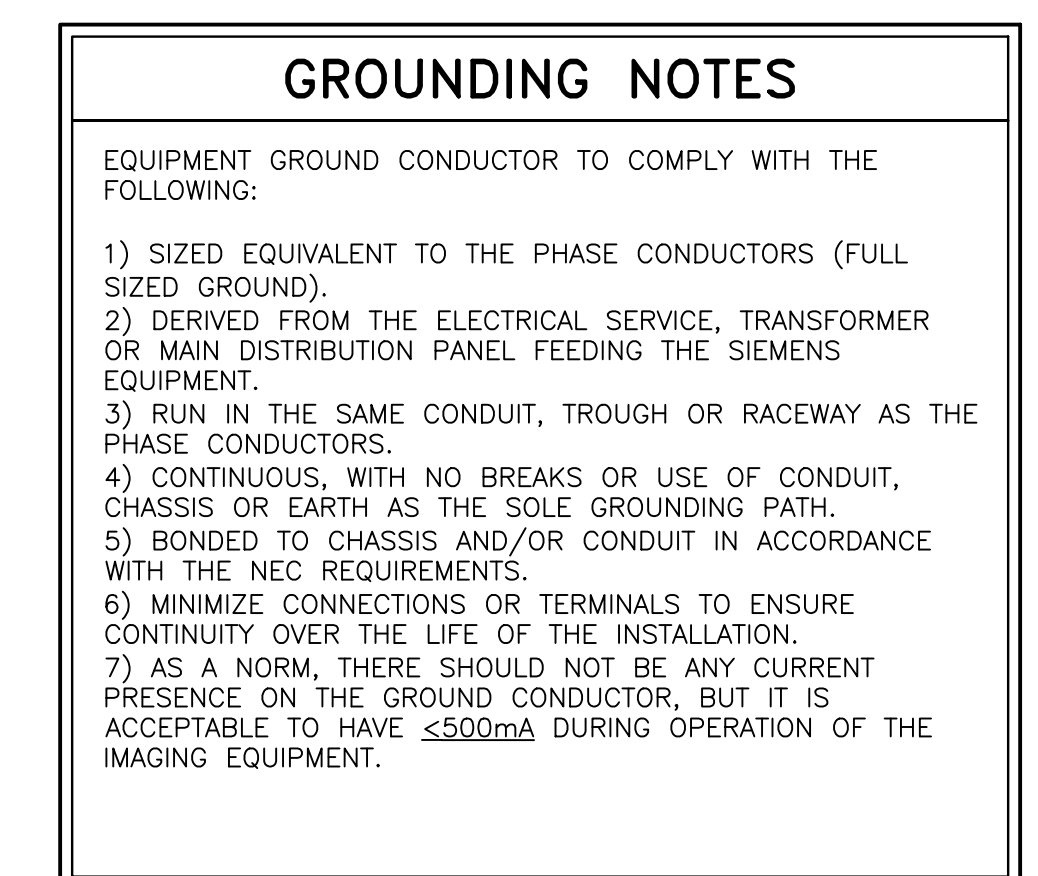
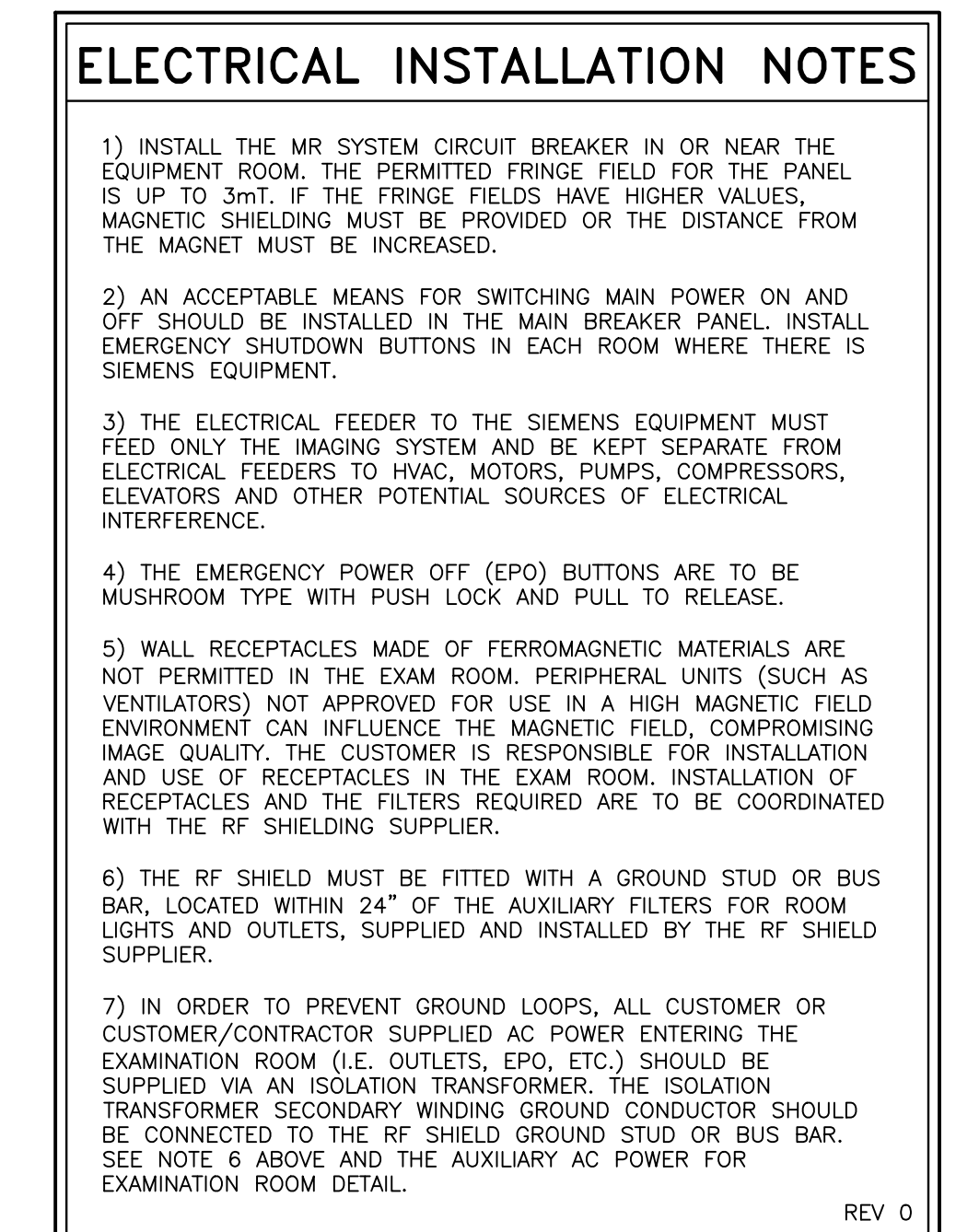
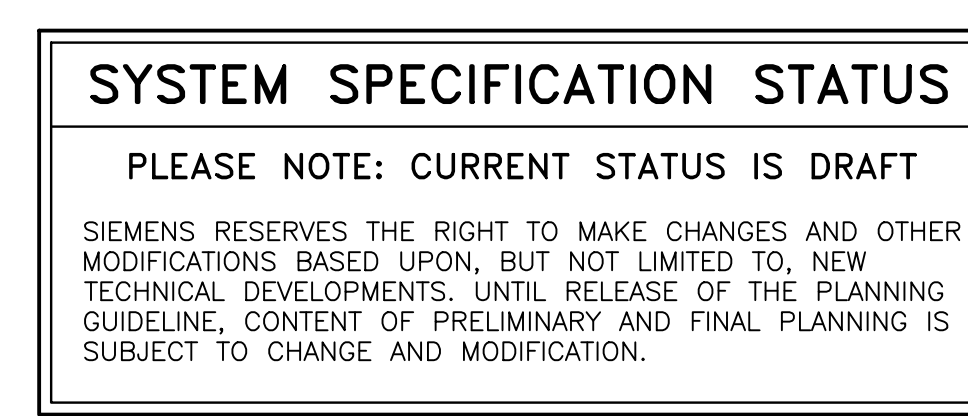
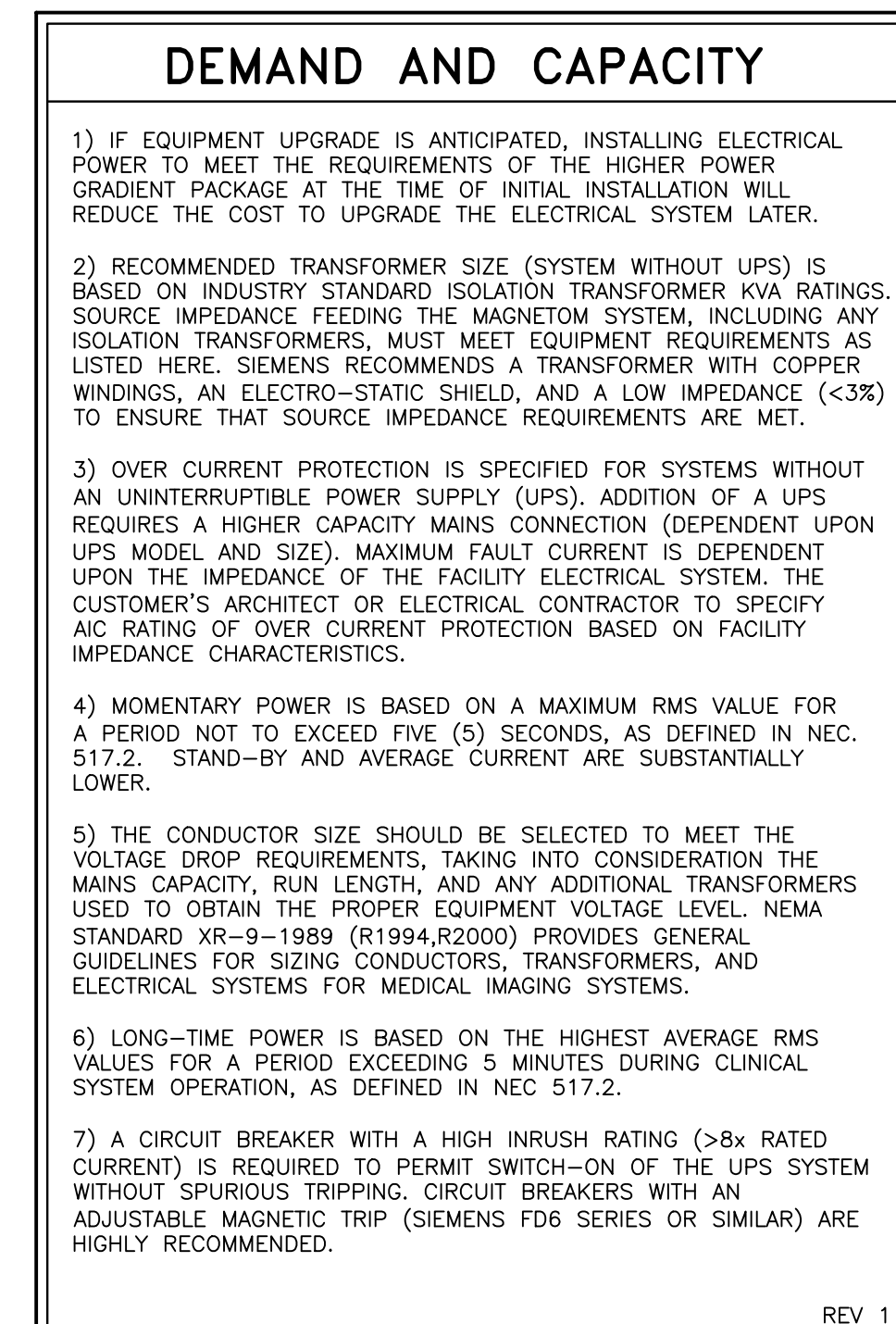
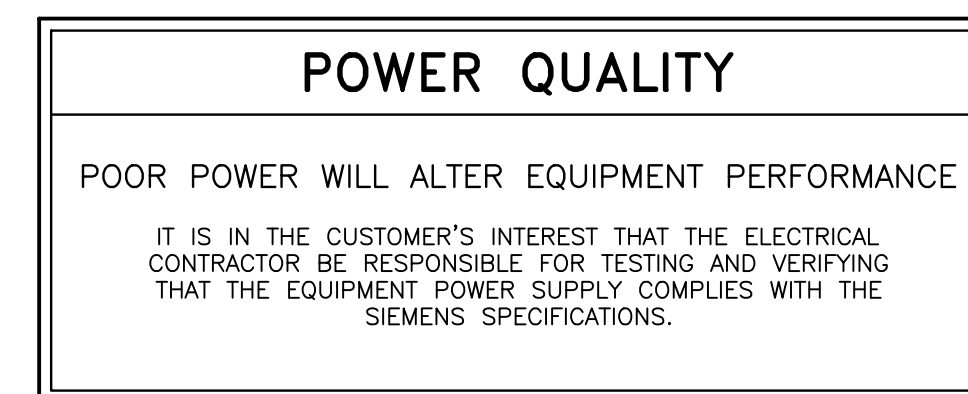
ELECTRICAL DIMENSION PLAN

SCALE: 1/4" = 1'-0"



POWER REQUIREMENTS

VOLTAGE VARIATION: 480 VAC ±10% FOR ALL LINE AND LOAD CONDITIONS	
VOLTAGE UNBALANCE: 2% MAXIMUM DIFFERENCE BETWEEN PHASES	
VOLTAGE:	480 - 3 PHASE
FREQUENCY:	60 Hz ± 1.0 Hz
LINE IMPEDANCE:	<180 mOHMS
CONNECTION VALUE	69 kVA
SHORT TIME POWER (LESS THAN 3 SECONDS)	75 kVA
MR SYSTEM BREAKER SIZE (A)	100 A
ALL BREAKERS ARE RATED AT 80%	



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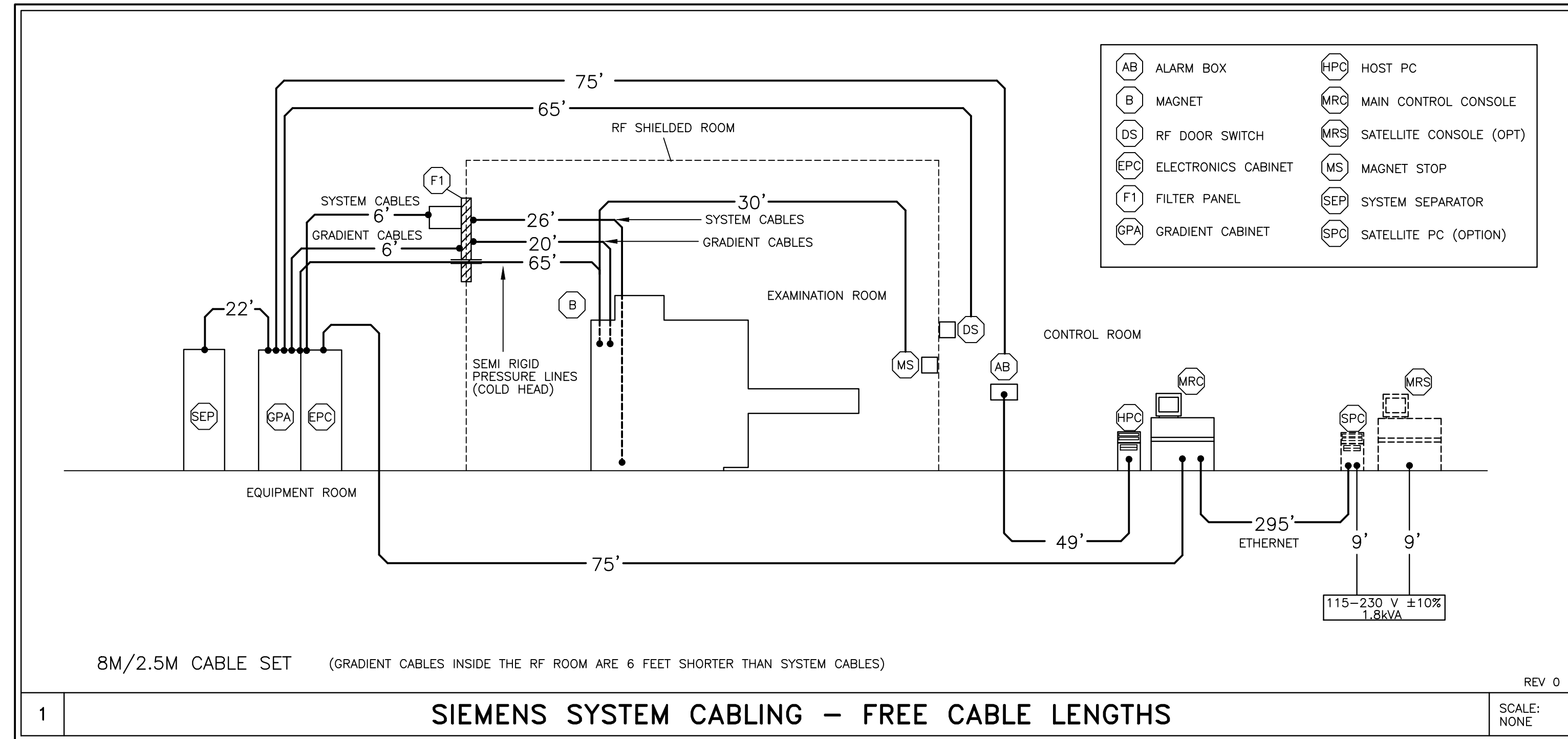
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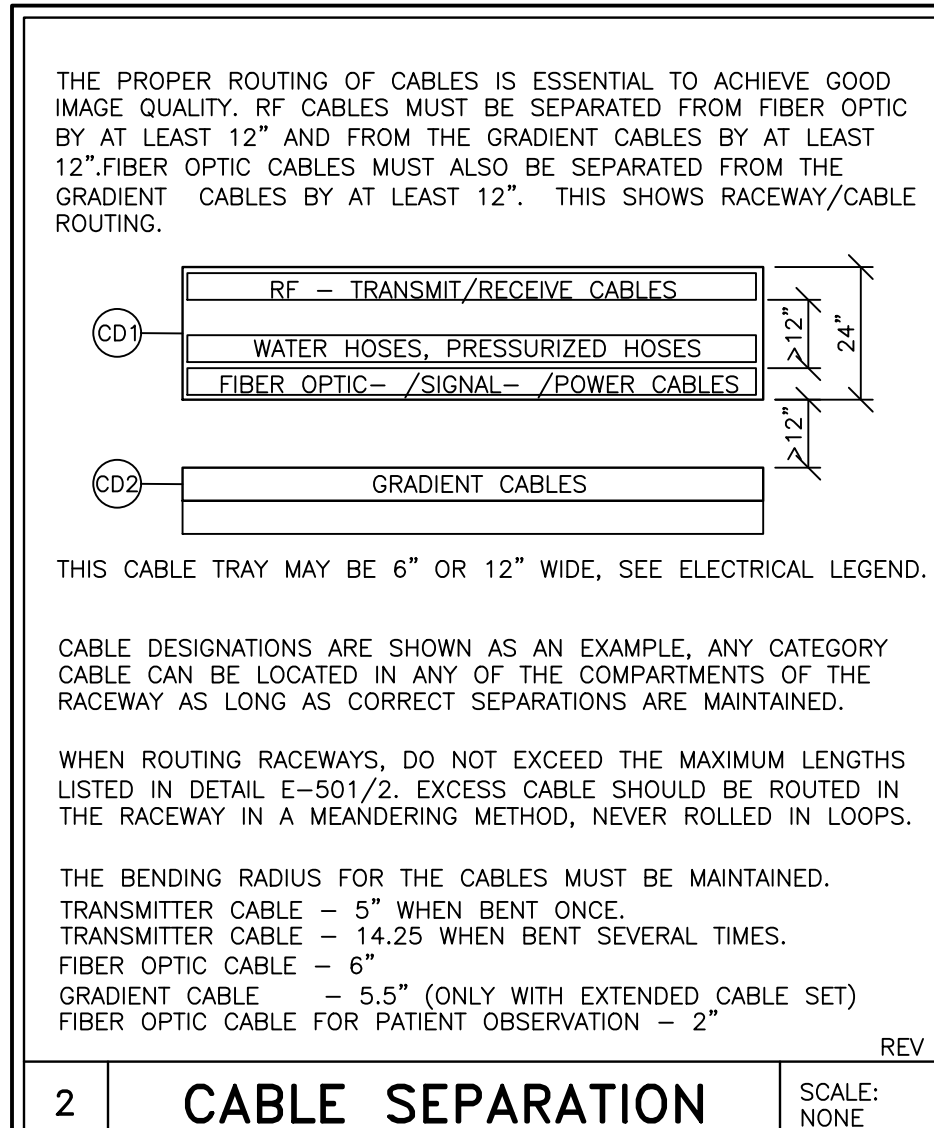
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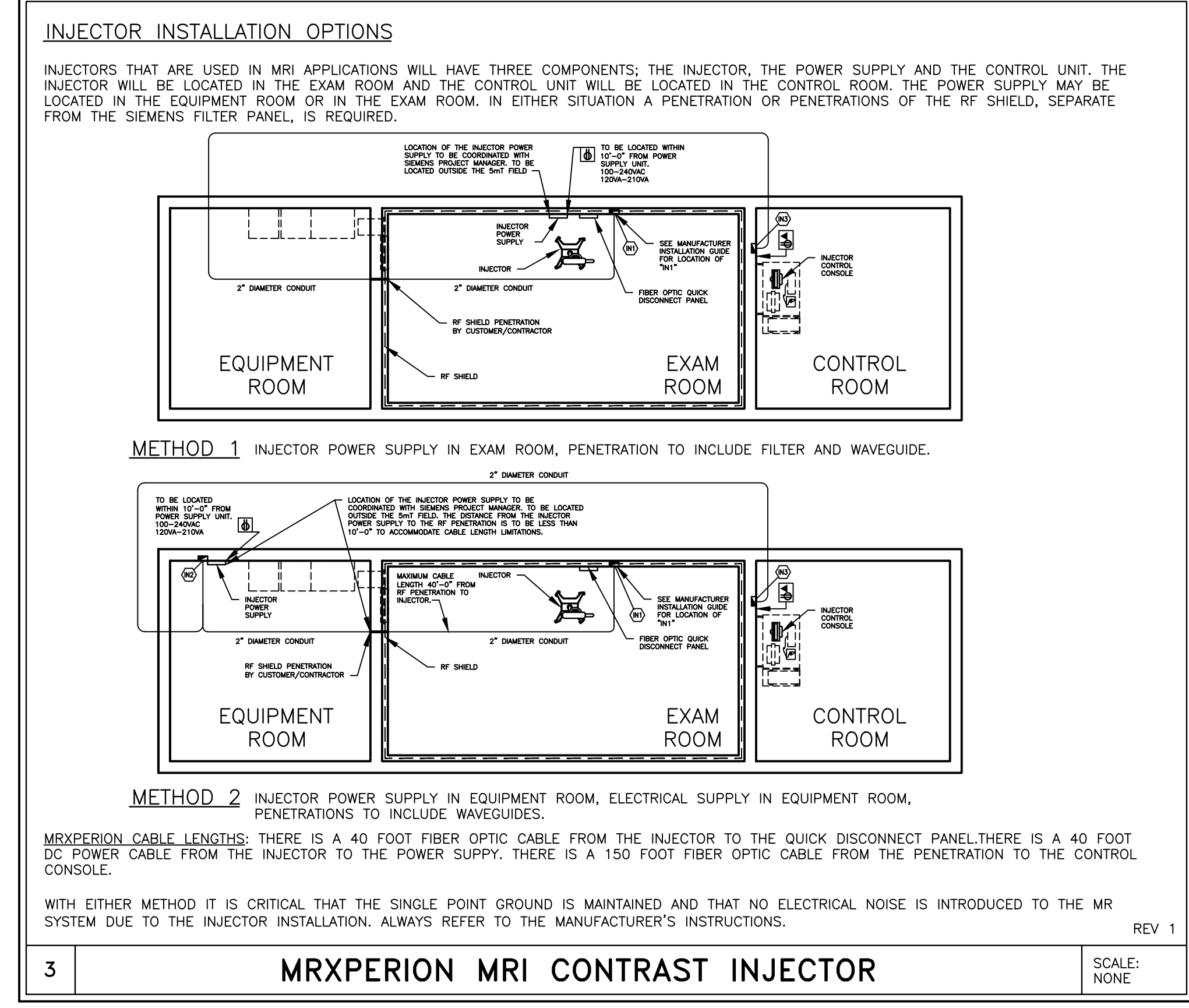
SIEMENS		MAGNETOM ALTEA	
TYPICAL FINAL DRAWING SET			
THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.		PROJECT #: 19073	SHEET: E-102
ALL RIGHTS ARE RESERVED.		SHEET 7 OF 10	DRAWN BY: B. HERRMANN
-ISSUE BLOCK-		SCALE: AS NOTED	REF. #: ---



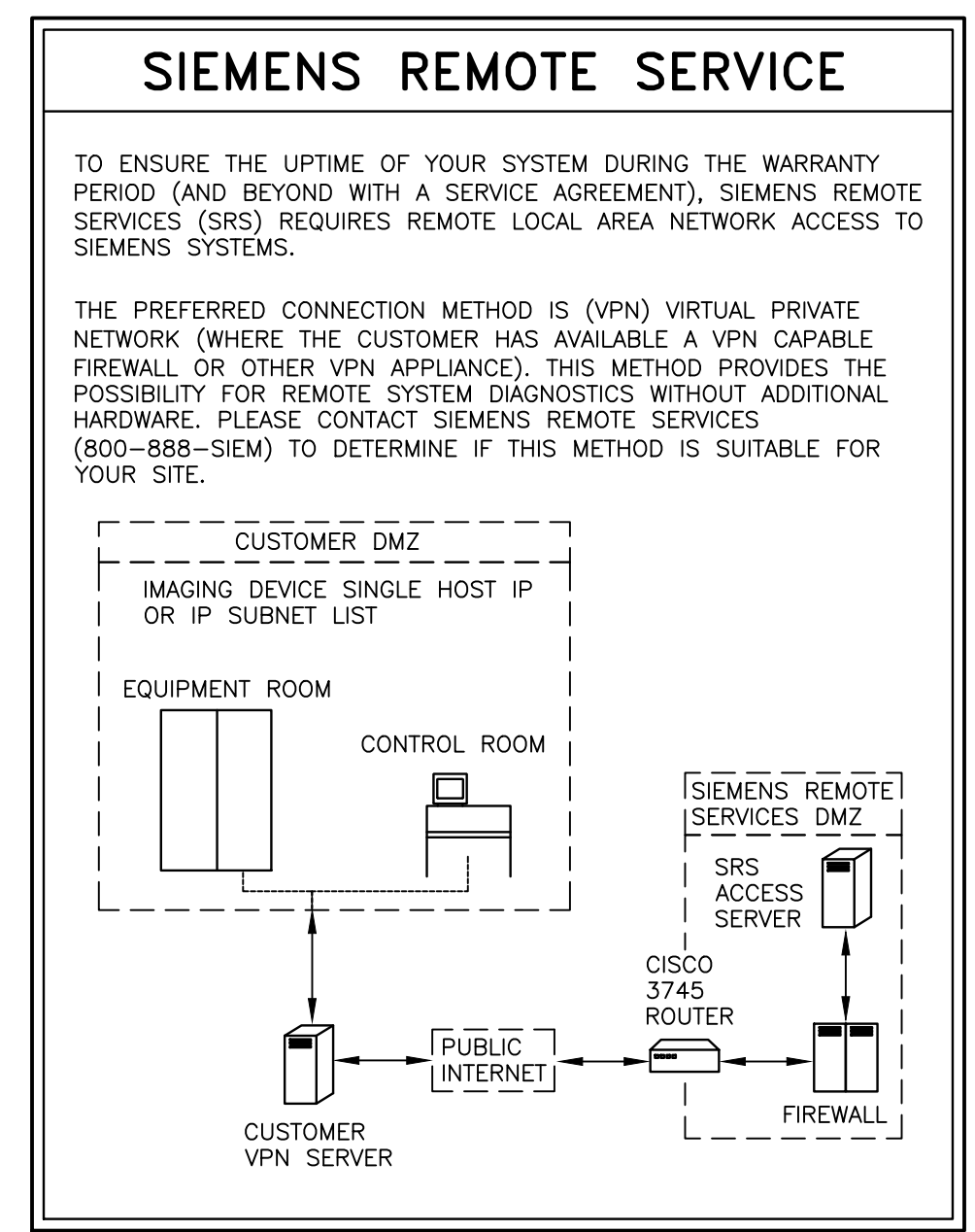
1 **SIEMENS SYSTEM CABLING - FREE CABLE LENGTHS** SCALE: NONE REV 0



2 **CABLE SEPARATION** SCALE: NONE REV 0



3 **MRXPERION MRI CONTRAST INJECTOR** SCALE: NONE REV 1



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- CONDUITS AND RACEWAYS**
- 1) ALL POWER CONDUCTORS SUPPLIED BY THE CUSTOMER/CONTRACTOR SHALL BE INSTALLED IN METAL RACEWAY, 600 VOLT CLASS, STRANDED TYPE THHN-THWN, RATED FOR 75°C (165°F) OPERATION. RECOMMEND MINIMUM 5 FEET WIRE TAILS AT ALL OUTLET POINTS WITH WIRE IDENTIFICATION TAGGED AT BOTH ENDS FOR FINAL CONNECTION BY SIEMENS MEDICAL SYSTEMS.
 - 2) THE CABLE GROUPS INCLUDED WITH THE MAGNETOM SYSTEM MAY BE ROUTED IN THE SAME CABLE TRAY IF PROVIDED WITH AN 8" SEPARATION BETWEEN SMALL SIGNAL LINES, GRADIENT CABLES, AND THE RF TRANSMIT CABLE. A 24" WIDE LADDER TYPE CABLE TRAY IS RECOMMENDED. CABLES SHOULD NOT BE BUNDLED TOGETHER.
 - 3) NOTE THE CABLE CONNECTOR SIZES (LARGEST CONNECTOR SIZE IS 2 1/2" x 2 1/2") FOR CABLE FEED-THROUGHS AND CABLE DUCTS.
 - 4) THE CABLE LENGTHS SPECIFIED ARE THE STANDARD LENGTHS.
 - 5) THE SIEMENS SYSTEM CABLES ARE NOT PLENUM RATED AND SHOULD NOT BE RUN UNPROTECTED IN AN AIR PLENUM UNLESS ENCLOSED IN A SEALED CABLE TRAY OR CONDUIT.

- CABLE LENGTH RESTRICTIONS**
- 1) THE CABLE SET LENGTH IDENTIFIES THE "FREE CABLE LENGTH". THIS IS THE LENGTH FROM CONNECTION POINT TO CONNECTION POINT. THE CABLE LENGTH IS NOT THE DISTANCE BETWEEN COMPONENTS.
 - 2) THE GRADIENT CABLES INSIDE THE RF SHIELDED ROOM ARE 6'-0" SHORTER THAN THE OTHER SYSTEM CABLES. THIS MEANS THAT IF THE 22' CABLE SET IS SELECTED, THE GRADIENT CABLES WILL BE 16' IN LENGTH. THE GRADIENT CABLES NEED TO GO UP INTO THE CABLE TRAY IN THE CEILING AT THE FILTER PLATE AND DOWN AT THE MAGNET. THESE VERTICAL RUNS MUST BE DEDUCTED FROM THE TOTAL CABLE LENGTH OF 16'.

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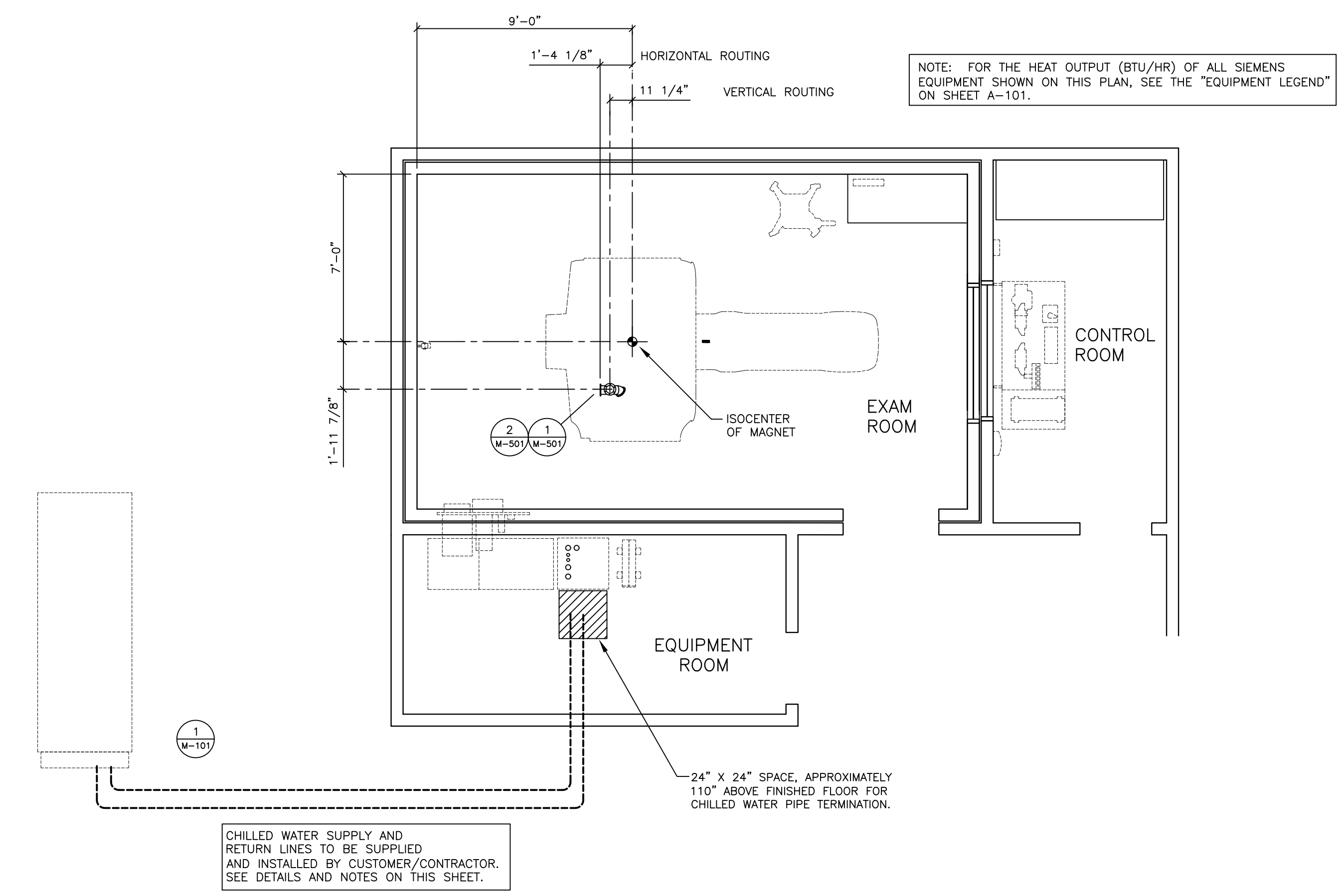
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		TYPICAL FINAL DRAWING SET	
		PROJECT #: 19073	SHEET: E-501
THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.	ALL RIGHTS ARE RESERVED.	SHEET 8 OF 10	DRAWN BY: B. HERRMANN
SCALE: AS NOTED	REF. #: ---	DATE: N/A	

REFERENCE DOCUMENT - NOT FOR CONSTRUCTION

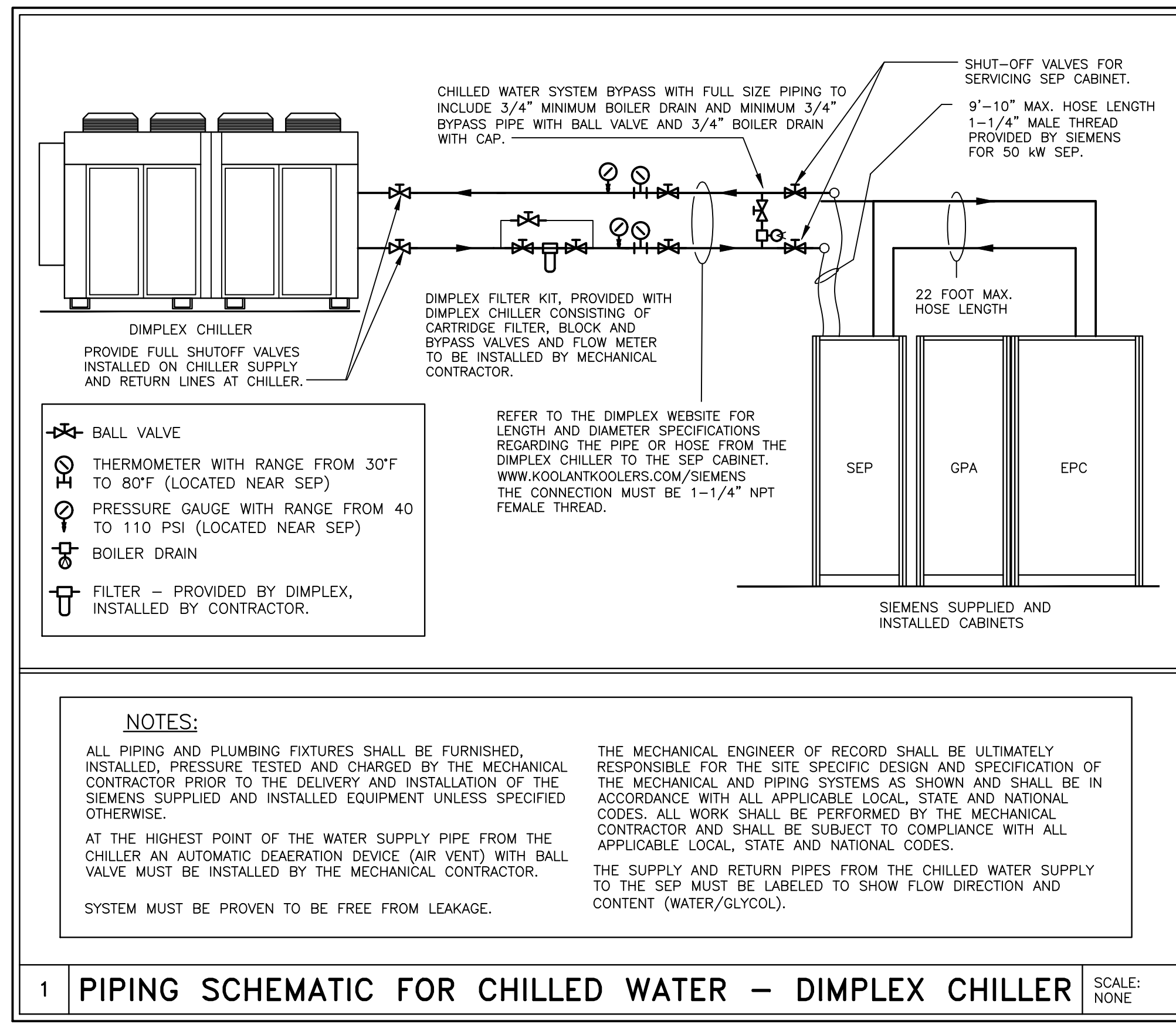


MECHANICAL PLAN

SCALE: 1/4" = 1'-0"

ENVIRONMENTAL REQUIREMENTS

- AIR CONDITIONING IS TO PROVIDE A TEMPERATURE OF 70°F ±5°F IN THE EXAM ROOM, 70°F±10°F IN THE EQUIPMENT & CONTROL AREAS. RELATIVE HUMIDITY OF 40-60% (NON-CONDENSING) IS REQUIRED EXAMINATION ROOM AND 40-80% (NON-CONDENSING) IN ALL OTHER AREAS WHERE SIEMENS EQUIPMENT IS INSTALLED. THESE CONDITIONS ARE TO BE MET AT ALL TIMES; 24 HOURS A DAY, 7 DAYS A WEEK.
- A DEDICATED AIR CONDITIONING AND HUMIDIFICATION SYSTEM IS RECOMMENDED FOR THE EXAM ROOM. A MINIMUM AIR EXCHANGE RATE OF 6 TIMES PER HOUR FOR THE EXAM ROOM IS REQUIRED. IT IS RECOMMENDED TO INSTALL A FRESH AIR SYSTEM WITH 30%-50% FRESH AIR INTAKE. AIR SUPPLY AND RETURN ABOVE THE FINISHED CEILING IN THE EXAM ROOM IS RECOMMENDED. EACH ROOM SHOULD HAVE A DEDICATED CONTROL AND SENSOR TO MONITOR AND ADJUST THE AIR.
- THE HEAT INTO THE EXAM ROOM IS LESS THAN 10,236 BTU/HR. THE HEAT INTO THE EQUIPMENT ROOM IS LESS THAN 3,412 BTU/HR. THIS HEAT DISSIPATION IS FROM THE SIEMENS EQUIPMENT ONLY. AUXILIARY SUPPORT EQUIPMENT (i.e. UPS) AND LIGHTING MUST BE CONSIDERED FOR TOTAL HEAT LOADS.
- IT IS IMPORTANT FOR FRESH AIR INTAKE SYSTEMS TO EXHAUST AIR DIRECTLY OUT OF THE BUILDING. THE EXHAUST AIR MUST NOT BE DEFLECTED INTO ANOTHER ROOM. THE MAGNET ROOM EXHAUST AIR SHOULD BE INSTALLED AT LEAST 6'-6" ABOVE FINISHED FLOOR.
- THE AIR INTAKE OF THE AIR CONDITIONING SYSTEM MUST NOT BE LOCATED IN THE VICINITY OF THE QUENCH VENT EXHAUST.
- IF THE INPUT DRAWS UPON AIR FROM OUTSIDE THE BUILDING, IT IS RECOMMENDED TO INSTALL AN ON-SITE FILTER TO REMOVE DUST PARTICLES GREATER THAN 10 MICRONS.
- DO NOT LOCATE ANY HVAC DIFFUSERS ABOVE THE MAGNET. THERE SHALL NOT BE AIR BLOWING DIRECTLY ON THE MAGNET. 12/11/12



1 PIPING SCHEMATIC FOR CHILLED WATER - DIMPLEX CHILLER SCALE: NONE

CHILLED WATER SUPPLY

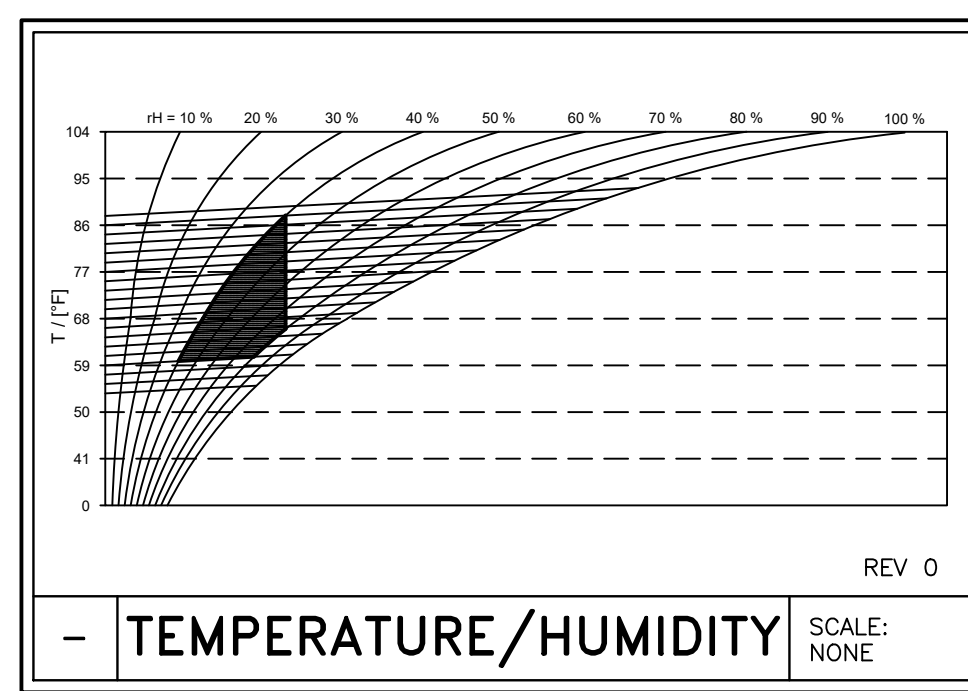
A CHILLED WATER SUPPLY IS REQUIRED TO THE MRI SYSTEM 24 HOURS A DAY, YEAR ROUND FOR THE COLD HEAD AND GRADIENT SYSTEMS. THIS CAN BE PROVIDED BY A cBOXx CHILLER IN COMBINATION WITH A SEP (SEPARATOR) CABINET.

THE PIPE SIZE BETWEEN THE cBOXx CHILLER AND SEP MUST BE 2 INCH UP TO 200 FEET, CONSULT cBOXx FOR LONGER PIPE.

27 GALLONS OF DISTILLED/DE-IONIZED WATER MUST BE PROVIDED FOR FILLING THE SECONDARY WATER CIRCUIT.

THE SUPPLY AND RETURN CHILLED WATER PIPES MUST BE LABELED. THE LOCATION OF THE LABELS MUST BE AT ALL CONNECTION AND REFILLING POINTS AND MUST CONTAIN FLOW DIRECTION AND CONTENTS.

10/22/18



CEILING HEIGHTS

EXAM ROOM 7'-11" MINIMUM
 CONTROL ROOM 6'-11" MINIMUM
 EQUIPMENT ROOM 7'-3" MINIMUM

CHILLED WATER REQUIREMENTS

XJ GRADIENTS
 WATER REQUIREMENTS TO BE MEASURED AT THE SEP CABINET.

FLOW RATE:	23.78-29.05 GPM
WATER TEMPERATURE:	42.8°F - 53.6°F
BTU DISCHARGE TO THE WATER	170,759 BTU/HR
WATER PRESSURE	MAXIMUM 87 PSI
LOSS OF PRESSURE FOR SEP CABINET	<14.5 PSI 11.6 TYPICAL
CHILLED WATER ACIDITY RANGE	6 pH TO 8 pH
CHILLED WATER HARDNESS	<250 ppm CALCIUM CARBONATE
CHLORINE GAS CONCENTRATION	<200 ppm
FILTRATION	500 um

FOR INSTALLATION OF A DIMPLEX CHILLER, IT IS THE RESPONSIBILITY OF THE CUSTOMER/MECHANICAL CONTRACTOR TO PROVIDE A MIXTURE OF WATER WITH 40% ETHYLENE GLYCOL OR 50% PROPYLENE GLYCOL PRIOR TO CHILLER START UP. DO NOT USE AUTOMOTIVE ANTI-FREEZE.

DO NOT MIX DIFFERENT BRANDS OF GLYCOL.

DIMPLEX CHILLERS USE 70-100 GALLONS PLUS THE PIPE LENGTH.

CONTRACTOR TO PROVIDE 65-95 GALLONS OF DE-MINERALIZED WATER. DO NOT USE TAP WATER. 08/10/18

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- MECHANICAL NOTES**
- THE AIR H.V.A.C. SYSTEM MUST OPERATE FOR A MINIMUM OF 48 CONSECUTIVE HOURS PRIOR TO THE DELIVERY OF THE EQUIPMENT.
 - THE FILTERS MUST BE CHANGED IMMEDIATELY PRIOR TO THE DELIVERY OF THE EQUIPMENT.
 - SIEMENS REQUIRES THE USE OF A DEDICATED H.V.A.C. SYSTEM FOR THE EQUIPMENT ROOM TO BE LOCATED, SIZED AND SPECIFIED BY THE MECHANICAL ENGINEER OF RECORD AND TO BE SUPPLIED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
 - SIEMENS RECOMMENDS THAT THE CUSTOMER PROVIDE AND INSTALL AN OXYGEN MONITORING SYSTEM WITH VISUAL AND AUDIBLE ALARMS TO INDICATE WHEN THE OXYGEN CONTAINED IN AMBIENT AIR FALLS BELOW PRE-PROGRAMMED SAFETY LEVELS WITH THE SENSOR TO BE LOCATED IN THE SCAN ROOM IN THE AREA DESIGNATED FOR CRYOGEN FILLING.
 - THE SIEMENS ACTIVE SHIELDED MAGNET RECIRCULATES LIQUID HELIUM, ELIMINATING THE NEED FOR A DEDICATED CRYOGEN STORAGE AREA. THE RECIRCULATING SYSTEM SIGNIFICANTLY REDUCES THE HELIUM "BOIL OFF". THE MAGNET WILL REQUIRE OCCASIONAL FILLING. A DELIVERY ROUTE FOR CRYOGEN DEWARs MUST BE ESTABLISHED. A MINIMUM 36" CLEARANCE IS REQUIRED.
- REV 0

- FIRE CONTROL NOTES**
- SIEMENS HAS NO SPECIFIC REQUIREMENT FOR FIRE PROTECTION. FIRE PROTECTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH LOCAL CODES AND CUSTOMER'S INSURANCE REQUIREMENTS. ALL FIRE PROTECTION SYSTEMS SHALL BE DEFINED BY THE ARCHITECT OF RECORD WITH DESIGN, SPECIFICATION AND DETAILING OF THE FIRE PROTECTION SYSTEM BY THE MECHANICAL ENGINEER OF RECORD IN ACCORDANCE WITH SIEMENS GUIDELINES AS STATED HEREIN. THE ELECTRONIC EQUIPMENT OF THE MR SYSTEMS WILL BE DAMAGED BY WATER. REDUCTION OR ELIMINATION OF WATER USED FOR FIRE SUPPRESSION WILL REDUCE POTENTIAL WATER DAMAGE. PRE-ACTION INERT GAS, OR HALOCARBONS OR OTHER METHODS CAN REDUCE OR ELIMINATE WATER. REFER TO YOUR FIRE PROTECTION PROFESSIONAL.
 - THE USE OF SMOKE DETECTORS INSIDE OF THE MR EXAMINATION ROOM IS NOT RECOMMENDED. SMOKE DETECTORS, BY DESIGN, CAN GENERATE NOISE THAT MAY INTERFERE WITH THE MRI EXAMINATION AND CAUSE IMAGE ARTIFACTS. IF THE USE OF A SMOKE DETECTOR IN THE EXAMINATION ROOM IS MANDATED BY LOCAL REQUIREMENTS, SPECIAL NOISE TESTS MUST BE PERFORMED BY SIEMENS SERVICE AFTER THE MRI IS OPERATIONAL. MRI EQUIPMENT PERFORMANCE PROBLEMS DUE TO SMOKE DETECTORS ARE THE RESPONSIBILITY OF THE CUSTOMER AND ARE NOT COVERED UNDER WARRANTY OR SERVICE AGREEMENT.
 - ALL MATERIAL USED INSIDE THE MAGNET ROOM SHALL BE NON-MAGNETIC. SEE CONSTRUCTION REQUIREMENTS.
 - ALL PENETRATIONS IN THE RF CABIN/SHIELD SHALL BE THROUGH A WAVE GUIDE TO BE EQUIPPED WITH A DIELECTRIC COUPLER ON BOTH ENDS OF THE WAVE GUIDE. ALL WAVE GUIDES SHALL BE DESIGNED, DETAILED AND SPECIFIED BY THE RF CABIN/SHIELD CONTRACTOR WITH ALL LOCATIONS TO BE DETERMINED BY THE ARCHITECT AND MECHANICAL ENGINEER OF RECORD TO BE ESTABLISHED IN A PRE-PLANNING MEETING PRIOR TO THE DESIGN, SPECIFICATION, AND FABRICATION OF THE RF CABIN/SHIELD.
 - EACH ELECTRICAL PENETRATION OF THE RF CABIN/SHIELD FOR ELECTRICAL SERVICING OF THE FIRE PROTECTION SYSTEM SHALL BE THROUGH AN RF FILTER TO BE SUPPLIED BY THE RF SHIELD CONTRACTOR WITH FILTER LOCATIONS TO BE DETERMINED BY THE ARCHITECT AND THE ELECTRICAL ENGINEER OF RECORD TO BE ESTABLISHED IN A PRE-PLANNING MEETING PRIOR TO THE DESIGN, SPECIFICATION AND FABRICATION OF THE RF CABIN/SHIELD.
 - IT IS PERMISSIBLE TO RUN "BLACK PIPE" UP TO THE DIELECTRIC COUPLER ON THE OUTSIDE OF THE RF SHIELD.
 - THERE MUST BE NO GROUND CONNECTIONS MADE DURING THE INSTALLATION OF EITHER THE PIPING OR ELECTRICAL FOR THE FIRE PROTECTION SYSTEM.
 - THE USE OF HALON IS NOT ACCEPTABLE.
 - THE LOCATION OF FIRE CONTROL SYSTEM COMPONENTS SHALL BE COORDINATED THROUGH THE ARCHITECT OF RECORD WITH ALL LOCATIONS TO BE COORDINATED WITH SIEMENS EQUIPMENT LOCATIONS AS SHOWN ON THE 1/4" SCALE EQUIPMENT LOCATION PLAN.
 - THE FIRE CONTROL CONTRACTOR SHALL VERIFY EQUIPMENT MOUNTING PROCEDURES AND LOCATIONS ON ANY WALLS CONTAINING RF SHIELDING WITH THE SIEMENS PROJECT MANAGER PRIOR TO THE COMMENCEMENT OF WORK.
- REV 1

COMPRESSOR LINE INSULATION

COMPRESSOR LINES RUNNING FROM THE COMPRESSOR (OR SEP CABINET) TO THE MAGNET ARE INSULATED BY SIEMENS. ADDITIONAL INSULATION (ARMAFLEX OR EQUIVALENT) FOR NOISE REDUCTION (CHIRPING) MAY BE REQUIRED. ADDITIONAL INSULATION NOT PROVIDED BY SIEMENS.

REV 0

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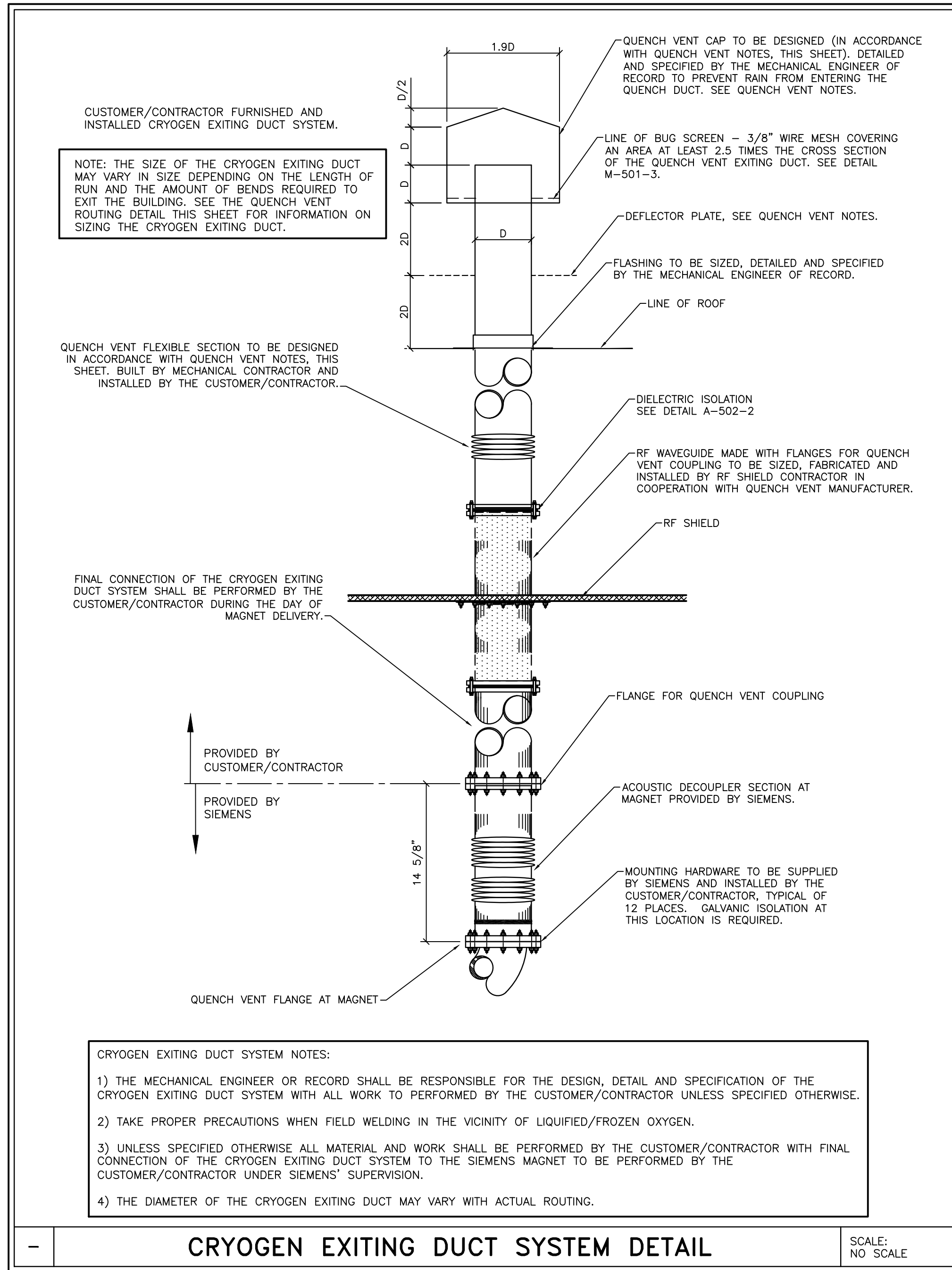
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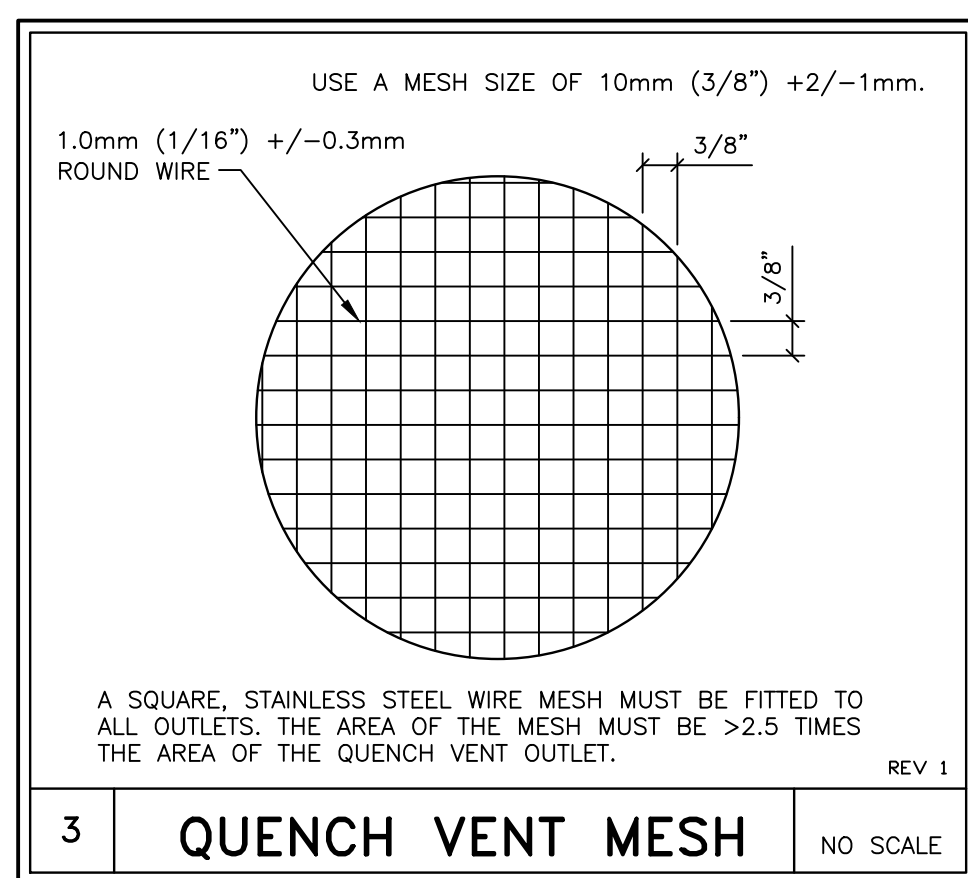
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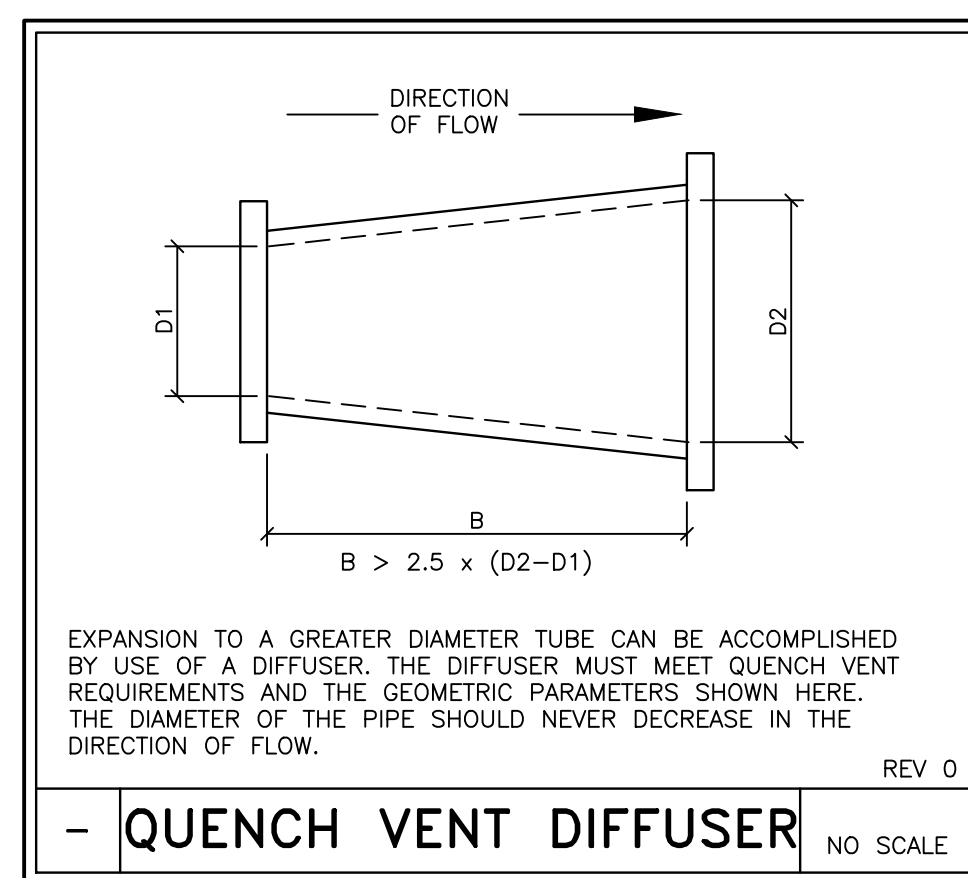
		TYPICAL FINAL DRAWING SET	
		PROJECT #: 19073	SHEET: M-101
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SYMBOL	DATE	DESCRIPTION	SCALE: AS NOTED
- ISSUE BLOCK -		REF. #:	---
SHEET 9 OF 10 DRAWN BY: B. HERRMANN		DATE: N/A	



CRYOGEN EXITING DUCT SYSTEM DETAIL SCALE: NO SCALE



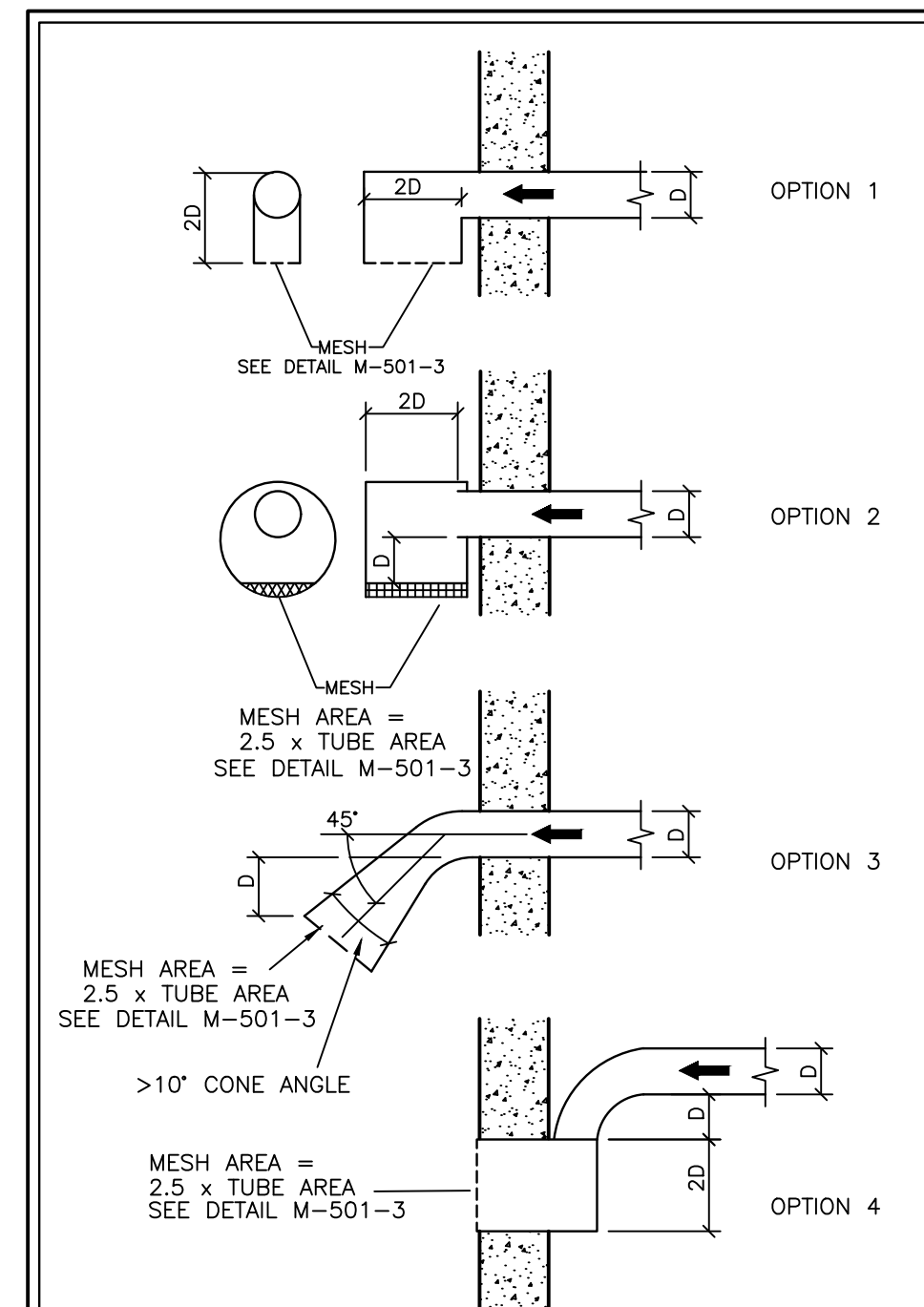
QUENCH VENT MESH NO SCALE



QUENCH VENT DIFFUSER NO SCALE

CRYOGEN NOTES

- "CRYOGENS" IS A TERM USED TO IDENTIFY THE REFRIGERANT USED TO MAKE THE MAGNET "SUPER-CONDUCTING". IN THIS APPLICATION, LIQUID AND GASEOUS HELIUM. SPECIAL CARE MUST BE TAKEN DURING THE TRANSFILLING OF THE MAGNET WITH CRYOGENS AND NORMAL EXHAUST OF CRYOGENS FROM THE SYSTEM, ASIDE FROM THE OBVIOUS DANGER OF FREEZING, HELIUM GAS WILL ALSO DISPLACE THE OXYGEN IN THE ROOM. THE INSTALLATION OF AN APPROVED TOXGARD MONITORING SYSTEM IS RECOMMENDED.
- THERE SHALL BE A TRANSPORT ROUTE FOR DELIVERY OF CRYOGENS TO THE EXAM ROOM. SPECIAL VESSELS CALLED DEWARs ARE USED TO TRANSPORT HELIUM. A 250 LITER DEWAR WEIGHS 335 POUNDS AND HAS A 32" DIAMETER, A 500 LITER IS 540 POUNDS, AND IS 42" IN DIAMETER.
- HELIUM GAS CYLINDERS MAY BE USED DURING THE INITIAL FILLING OF HELIUM INTO THE MAGNET. THE FACILITY IN WHICH THESE MAY BE USED NEEDS TO HAVE THE ABILITY TO TEMPORARILY STORE AND SECURE THESE CYLINDERS THAT WILL PREVENT THEM FROM INADVERTENTLY FALLING OVER.
- OUTSIDE VENTING OF THE HELIUM IS TO BE PROVIDED BY MEANS OF A VENT PIPE OF NON-MAGNETIC MATERIAL CALLED A QUENCH VENT. REV 0

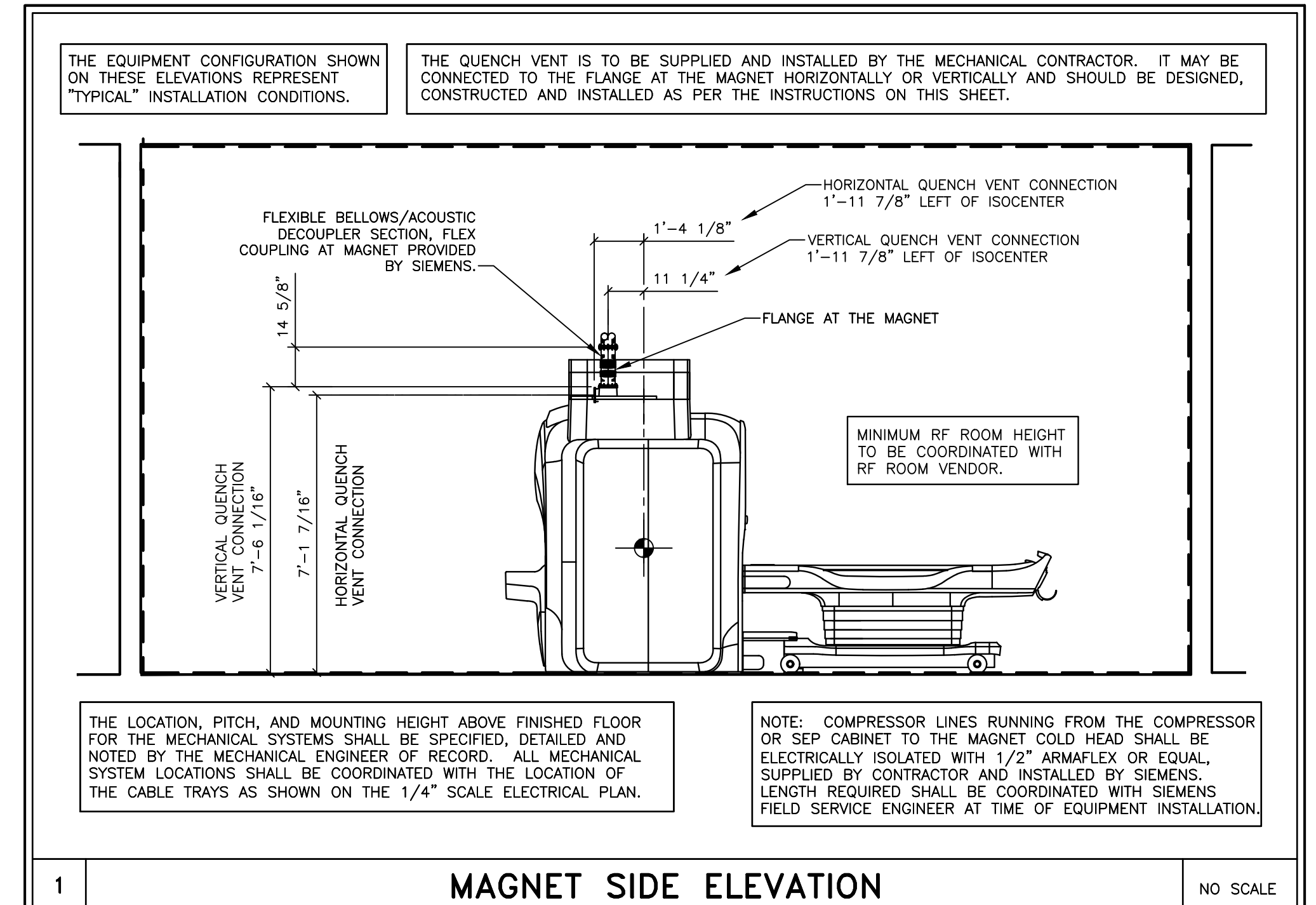


HORIZONTAL OUTLET SCALE: NONE

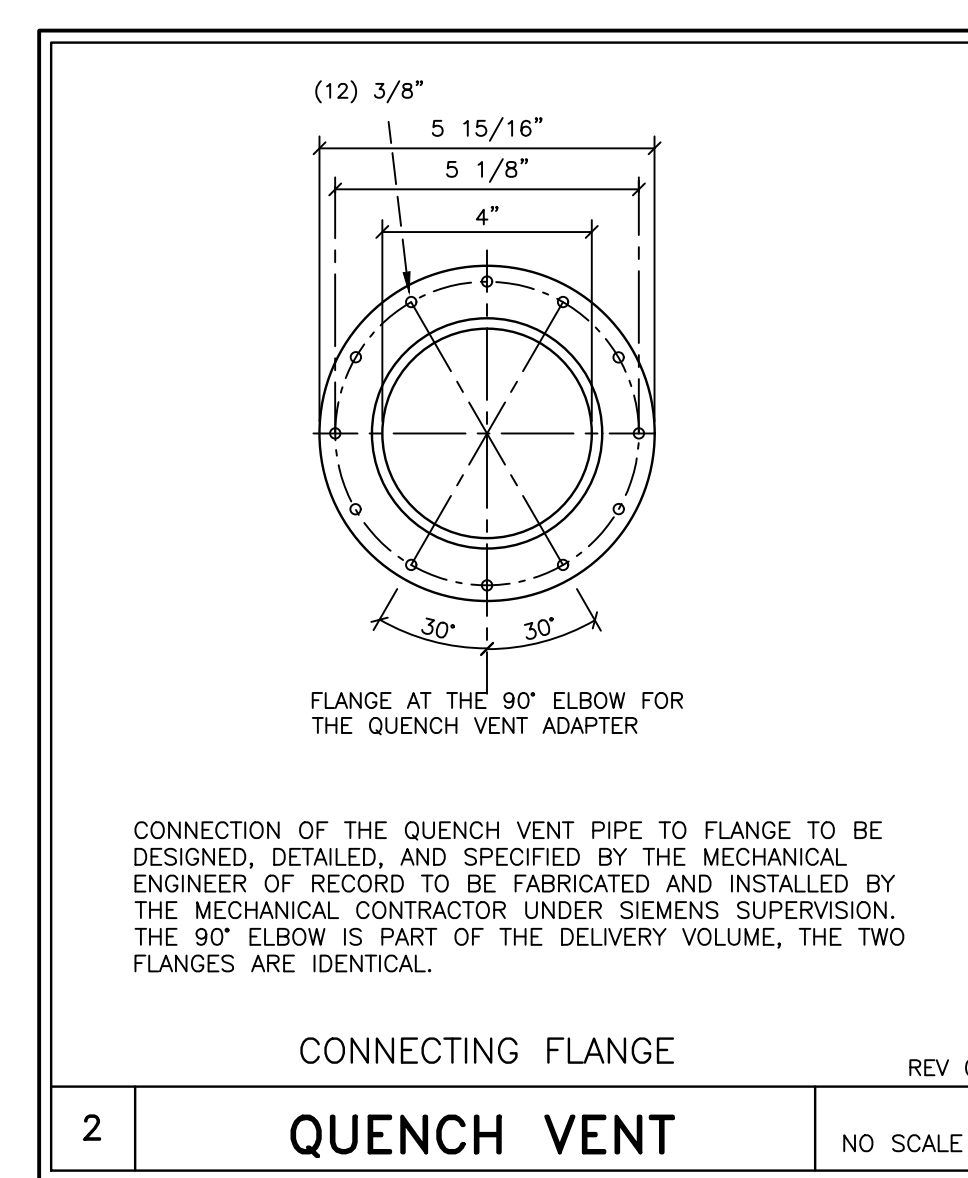
QUENCH VENT NOTES

QUENCH VENT DESIGN INSTRUCTIONS

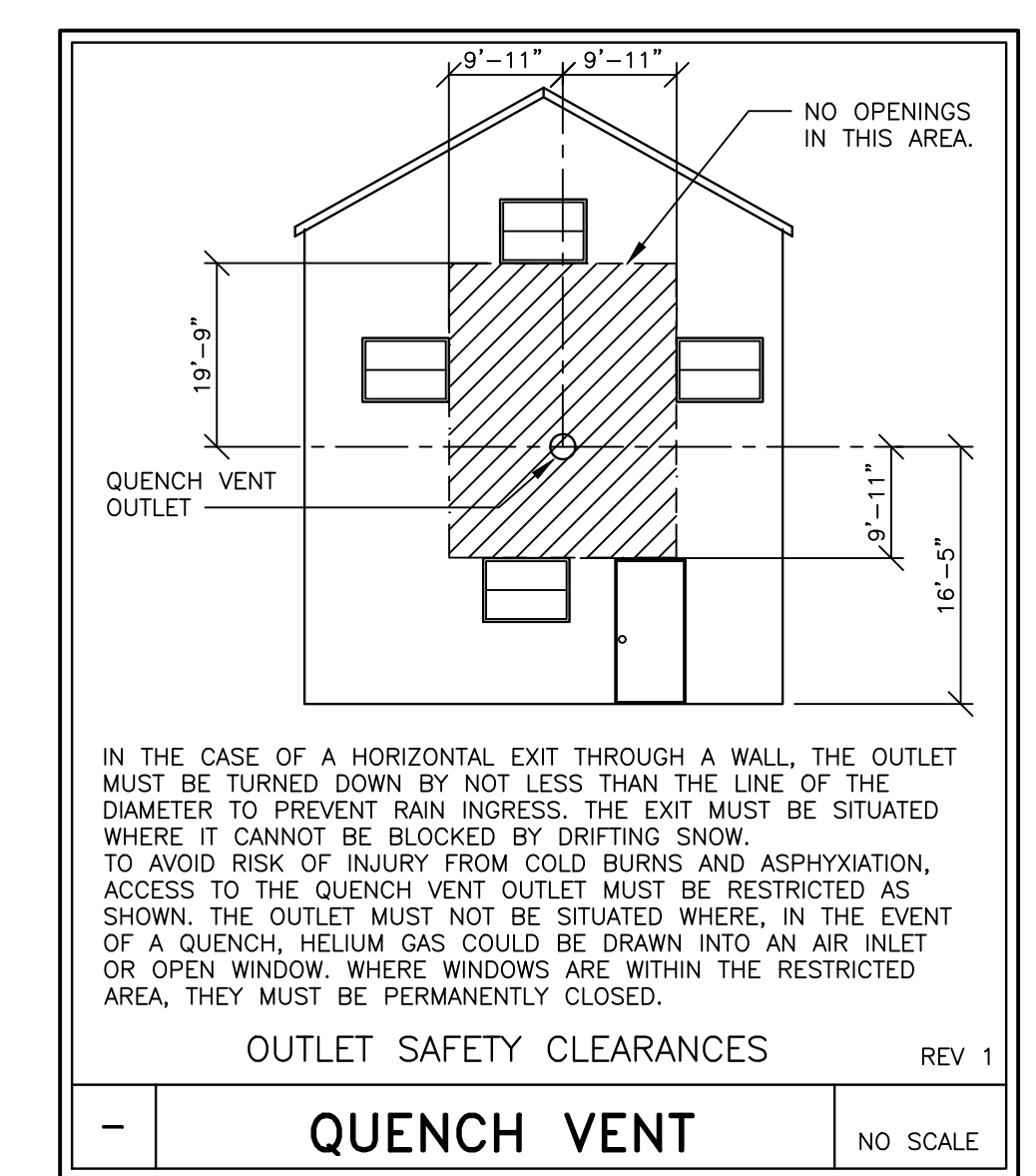
- IN THE EVENT OF A QUENCH, THE THERMAL ENERGY DISSIPATED CAUSES AN EXTREMELY RAPID BOIL OFF OF THE LIQUID HELIUM. THE SYSTEM MUST BE CAPABLE OF VENTING THE LARGE VOLUME OF GAS GENERATED AT THE APPROXIMATE EXPANSION RATIO OF 1:700 FROM LIQUID AT 4.2K TO ROOM TEMPERATURE GAS. THE EXHAUST SYSTEM IS CRITICAL FOR THE SAFE OPERATION OF THE MAGNET. THE DATA IN THIS DOCUMENT MUST BE FOLLOWED. SINCE HELIUM VENTED IN A QUENCH IS AN ASPHYXIANT AN EXTREMELY HIGH CONCENTRATION OF QUENCH TUBE MUST ALWAYS END AT A POINT WHERE ACCESS BY PEOPLE IS NOT POSSIBLE. QUENCH TUBE PLANNING MUST ONLY BE DONE BY QUALIFIED PERSONNEL. IT IS THE OWNER'S RESPONSIBILITY TO ENSURE THAT THE QUENCH TUBE IS MAINTAINED IN AN OPERABLE STATE.
- IF THE QUENCH VENT IS NOT CONFIGURED CORRECTLY THERE IS A RISK OF DANGER THAT MAY LEAD TO DEATH OR SERIOUS INJURY AND CAN RESULT IN STRUCTURAL DAMAGE. THE EXHAUST MUST NOT BE VENTED IN AN ENCLOSED SPACE. THE OPERATOR OF THE SYSTEM MUST PREPARE AN EMERGENCY PLAN IN THE EVENT OF A QUENCH.
- THE QUENCH TUBE CONSISTS OF STRAIGHT, HYDRAULICALLY SMOOTH SECTIONS, BENDS UP TO 90° AND A DIFFUSER, IF REQUIRED. THE END OF THE TUBE MUST BE PROTECTED FROM RAIN, SNOW, AND FOREIGN OBJECTS. ROUND SECTIONS ONLY. NO SQUARE SECTIONS.
- THE SIEMENS MAGNET HAS A QUENCH VALVE ASSEMBLY FOR CONNECTION TO THE TUBE LOCATED AT THE TOP LEFT SIDE OF THE MAGNET (SEE MAGNET ELEVATION). THE MECHANICAL CONTRACTOR WILL SUPPLY AND INSTALL A QUENCH VENT TUBE WITH CAP, TO BE NON-MAGNETIC STAINLESS STEEL (2-22 GAUGE RECOMMENDED). GRADES AISI304, 309, 316, OR 321 ONLY. THERMAL CONDITIONS MAY CAUSE THE TUBE TO CONTRACT UP TO 3mm/METER SO A STAINLESS STEEL BELLOWS OR FLEXIBLE SECTION MUST BE INSTALLED A MINIMUM OF EVERY 32'-0" NOT TO EXCEED 2% OF THE OVERALL LENGTH. THE QUENCH TUBE MAY ALSO BE MADE OF ALUMINUM. EXTRUDED TUBE ALUMINUM GRADES 6063 AND 6082 ONLY MUST BE USED. ROLLED AND WELDED TUBE FROM SHEET ALUMINUM GRADE 5083 ONLY MUST BE USED. THE WALL SECTIONS OF ALUMINUM TUBE MUST BE A MINIMUM 14 GAUGE. THERMAL CONTRACTION OF 4.5 MM/METER MUST BE CONSIDERED FOR ALUMINUM QUENCH TUBES. THE MOVEMENT OF THE BELLOWS MUST BE RESTRICTED TO PREVENT EXCESSIVE EXPANSION DUE TO PRESSURE. THE WEIGHT OF THE TUBE MUST BE SUPPORTED BY THE BUILDING AND BE FLEXIBLE TO ALLOW MOVEMENT FROM THERMAL CONTRACTION. THE WALL EXIT SHOULD ALSO BE FLEXIBLE.
- PRESSURE CALCULATION**
THE MAXIMUM INTERNAL PRESSURE IS CALCULATED AT 1.45 PSI. THE MAXIMUM PRESSURE SHOULD BE ENGINEERED FOR 6.5 PSI.
- USE THE QUENCH VENT CALCULATOR PROVIDED BY SIEMENS TO DESIGN A QUENCH VENT THAT MEETS DESIGN REQUIREMENTS FOR DIAMETER, LENGTH, NUMBER OF ELBOWS AND PRESSURE DROP. ALL BENDS MUST BE SMOOTH WALLED AND HAVE A CENTERLINE TO INTERNAL PIPE DIAMETER RATIO OF 1.5 TO 5.0. EXPANSIONS TO PIPE DIAMETER CAN BE DONE WITH A DIFFUSER. ONLY ROUND TUBE SECTIONS MAY BE USED. RECTANGULAR SECTIONS ARE NOT ALLOWED.
- THERE MUST BE A 12"-19 INCH FLEXIBLE SECTION OF PIPE FOR CONNECTION TO THE QUENCH VALVE ASSEMBLY. THE FLEXIBLE SECTION DIAMETER GREATER THAN 4" (1.5T) OR 6" (3.0T) AND ABLE TO WITHSTAND 6.5 PSI.
- CONNECTING SECTIONS**
SECTIONS OF THE PIPE CAN ONLY BE JOINED BY WELDING OR BOLTED FLANGES WITH FIBER GASKETS. ROTARY FLANGES ARE PERMITTED. VEE CLAMPED FLANGES MAY NOT BE USED.
- QUENCH VENT EXIT**
9) THE PROTECTION AT THE END OF THE TUBE SHALL BE 3/8" WIRE MESH WITH 1/16 INCH WIRES, COVERING AN AREA AT LEAST 2.5 TIMES THE CROSS SECTION AREA OF THE QUENCH PIPE.
- WHERE THE QUENCH TUBE EXITS THROUGH A FLAT ROOF, THE THE OUTLET MUST BE ABOVE A LEVEL WHERE WATER COULD ENTER IN THE EVENT THAT THE ROOF DRAINS BECOME BLOCKED. IN THE CASE OF A HORIZONTAL EXIT THROUGH A WALL, THE OUTLET SHALL BE ANGLED DOWNWARD NOT LESS THAN 10 DEGREES TO PREVENT RAIN INGRESS. THE EXIT SHALL BE LOCATED ABOVE THE LEVEL OF DRIFTING SNOW.
- WHERE THE QUENCH TUBE EXITS VERTICALLY, A RAIN COVER MUST ALSO BE FITTED WITH THE DIAMETER TO BE TWO TIMES THE DIAMETER OF THE QUENCH TUBE. THE CLEARANCE BETWEEN THE RAIN GUARD AND THE MESH SHALL BE AT LEAST 3 TIMES THE DIAMETER OF THE TUBE. A DEFLECTOR PLATE SHALL BE WELDED TO THE TUBE WHERE IT EXITS THE ROOF TO PREVENT HELIUM FROM RE-ENTERING THE BUILDING. THE DEFLECTOR SHALL BE AT LEAST 3 TIMES THE DIAMETER OF THE QUENCH TUBE AND LOCATED TWO PIPE DIAMETERS ABOVE THE ROOF AND TWO PIPE DIAMETERS BELOW THE RAIN GUARD.
- DURING A QUENCH THE HELIUM GAS EXITING THE QUENCH PIPE MAY BE AT TEMPERATURES OF LESS THAN -400°F. DUE TO THIS TEMPERATURE ROOFING MATERIALS OR ITEMS ABOVE THE VENT EXIT MAY BE ADVERSELY AFFECTED. CONSIDERATION OF MATERIALS AND ITEMS PLACED NEAR THE VENT EXIT SHOULD BE TAKEN INTO ACCOUNT SO DAMAGE DOES NOT OCCUR.
- WHERE THE QUENCH TUBE EXITS HORIZONTALLY, THE OUTLET MUST CONFORM TO OPTIONS 1-4 OR THE ANGLLED RAIN HOOD. THE OUTLET SHOULD NOT BE LOCATED WHERE HELIUM GAS CAN BE DRAWN INTO AN AIR INLET, ENTER AN OPEN WINDOW, OR BLOW DIRECTLY ONTO STRUCTURE OR EQUIPMENT. RESTRICT ACCESS TO WINDOWS AND DOORS TO AVOID INJURY FROM COLD BURNS AND ASPHYXIATION BY 9'-11" ON EACH SIDE, BELOW AND 19'-9" ABOVE, IF THE OUTLET IS POSITIONED TOO LOW A DEFLECTOR PLATE CAN BE USED WITH OPTION 1 AND 3.
- WARNING SIGNS AND OUTLET RESTRICTIONS**
A WARNING SIGN MUST BE FIXED AND VISIBLE NEAR THE QUENCH VENT OUTLET. THE TUBE MUST HAVE A WARNING POSTED ALONG ITS ENTIRE LENGTH FOR EXTREMELY COLD HELIUM GAS - AUTHORIZED PERSONNEL ONLY.
- AREAS WITH ACCESS IN THE AREA OF THE OUTLET MUST BE CLEARLY IDENTIFIED AND FENCED, FOR EXAMPLE, A ROOF OUTLET WITH MAINTENANCE ACCESS.
- INSULATION AND GALVANIC SEPARATION**
14) THE QUENCH TUBE MUST HAVE MINIMUM 1" INSULATION FOR THE FULL LENGTH. WITHIN THE RF ROOM THERE SHOULD BE A 1" LAYER OF MINERAL FIBER INSULATION WITH A VAPOR BARRIER AND 1" CLASS O OR CLASS AP ARMAFLEX. OUTDOOR PIPES MUST BE WEATHERPROOF. THE INSULATION MUST NOT TOUCH THE MAGNET COVERS. TO AVOID RF DISTURBANCES THE INSULATION MUST NOT MAKE ELECTRICAL CONTACT WITH THE WAVEGUIDE.
- GALVANIC SEPARATION MUST BE PROVIDED BETWEEN THE MAGNET, THE QUENCH VENT, THE RAIN HOOD, THE BELLOWS, TWO SEPARATIONS ARE REQUIRED USING STAINLESS STEEL BOLTS, INSULATING BUSHES AND LOCKING NUTS. NO OTHER DESIGNS ARE PERMITTED FOR SAFETY.
- DOCUMENTATION**
16) THE DESIGN AND CONSTRUCTION OF THE QUENCH PIPE MUST BE DOCUMENTED WITH DRAWINGS AND CALCULATIONS THAT ARE KEPT WITH INSTALLATION DOCUMENTS. IT MUST COMPLY WITH THE REQUIREMENTS IN THIS DOCUMENT BEFORE BEING CONNECTED TO THE MAGNET. REV 6



MAGNET SIDE ELEVATION NO SCALE



CONNECTING FLANGE QUENCH VENT NO SCALE



QUENCH VENT OUTLET SAFETY CLEARANCES NO SCALE

SYSTEM SPECIFICATION STATUS

PLEASE NOTE: CURRENT STATUS IS DRAFT

SIEMENS RESERVES THE RIGHT TO MAKE CHANGES AND OTHER MODIFICATIONS BASED UPON, BUT NOT LIMITED TO, NEW TECHNICAL DEVELOPMENTS. UNTIL RELEASE OF THE PLANNING GUIDELINE, CONTENT OF PRELIMINARY AND FINAL PLANNING IS SUBJECT TO CHANGE AND MODIFICATION.

HELIUM CONTENT

MAXIMUM LIQUID FILL	1,356 LITERS	
TYPICAL BOIL OFF RATE	0.0 L/HR	FOR TYPICAL CLINICAL USE, DEPENDING ON SEQUENCES AND OPERATING TIME.
TYPICAL REFILL INTERVAL	NA	

WITHOUT THE COLD HEAD RUNNING THE LIQUID HELIUM WILL BOIL OFF FROM 97% TO 0% IN APPROXIMATELY 30 DAYS. THE LOSS DURING SHIPPING IS APPROXIMATELY 65 LITERS PER DAY.

ATTENTION:

- THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.
- THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.
- THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

ALTEA
REV D

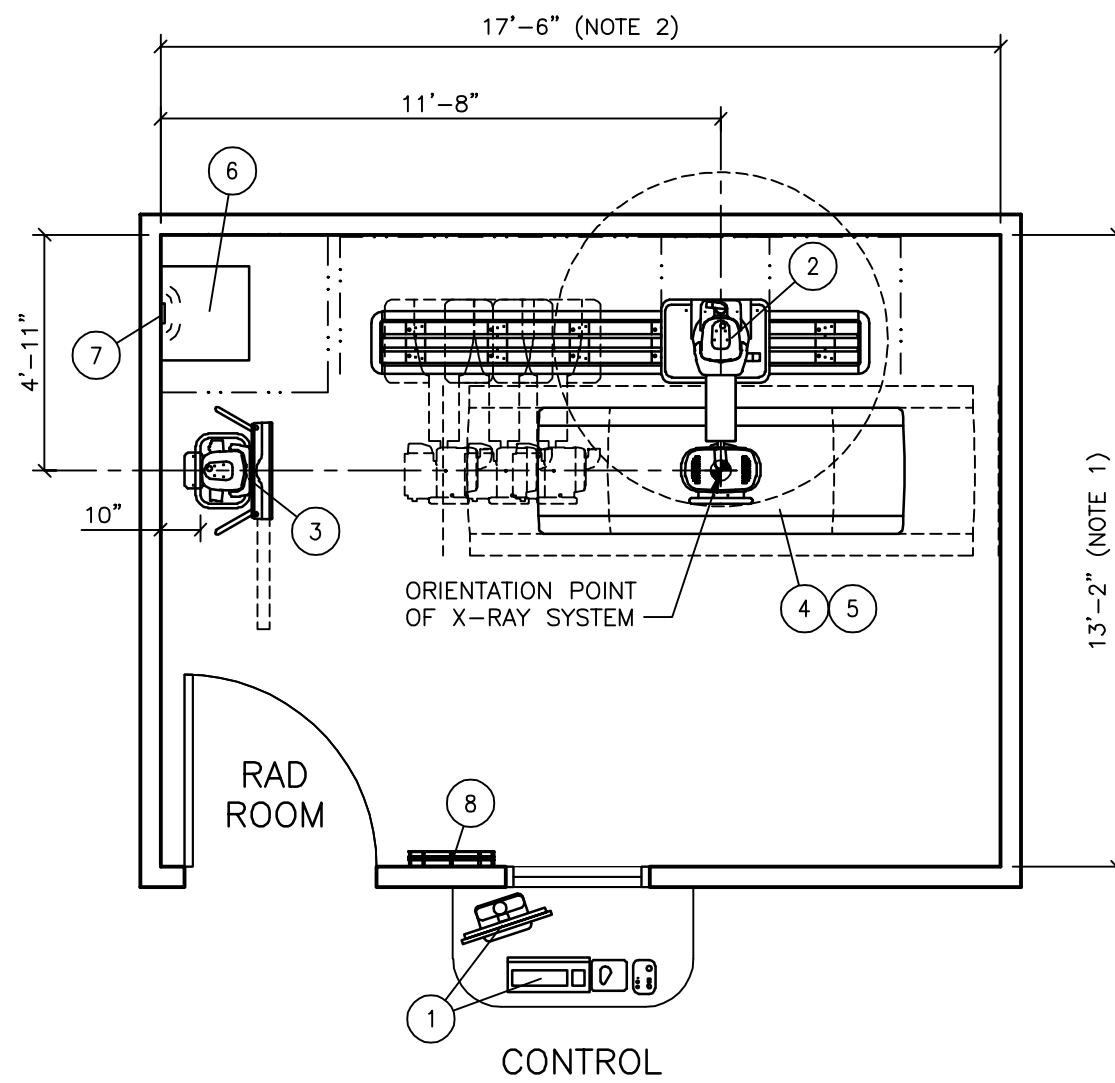
**SIEMENS
MAGNETOM ALTEA**

TYPICAL FINAL DRAWING SET

THE USE OR REPRODUCTION OF THIS TITLE, BLOCK, WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.	PROJECT #:	SHEET:
	19073	M-501
ALL RIGHTS ARE RESERVED.	SHEET OF	DRAWN BY:
	10 OF 10	B. HERRMANN
SCALE: AS NOTED	REF. #:	DATE: N/A

-ISSUE BLOCK-

THE X-RAY TUBE IS SHOWN IN THE AP POSITION OVER THE PATIENT TABLE. 45°, 60°, & 72° SID ARE ALSO SHOWN. ALL TUBE POSITIONS ALLOW EXPOSURES BELOW TABLE TOP HEIGHT. THE TABLE TOP MUST BE FULLY TRAVELED AWAY FROM THE WALL STAND FOR THE 60° & 72° SID TUBE POSITIONS TO BE POSSIBLE FROM BELOW TABLE TOP HEIGHT.

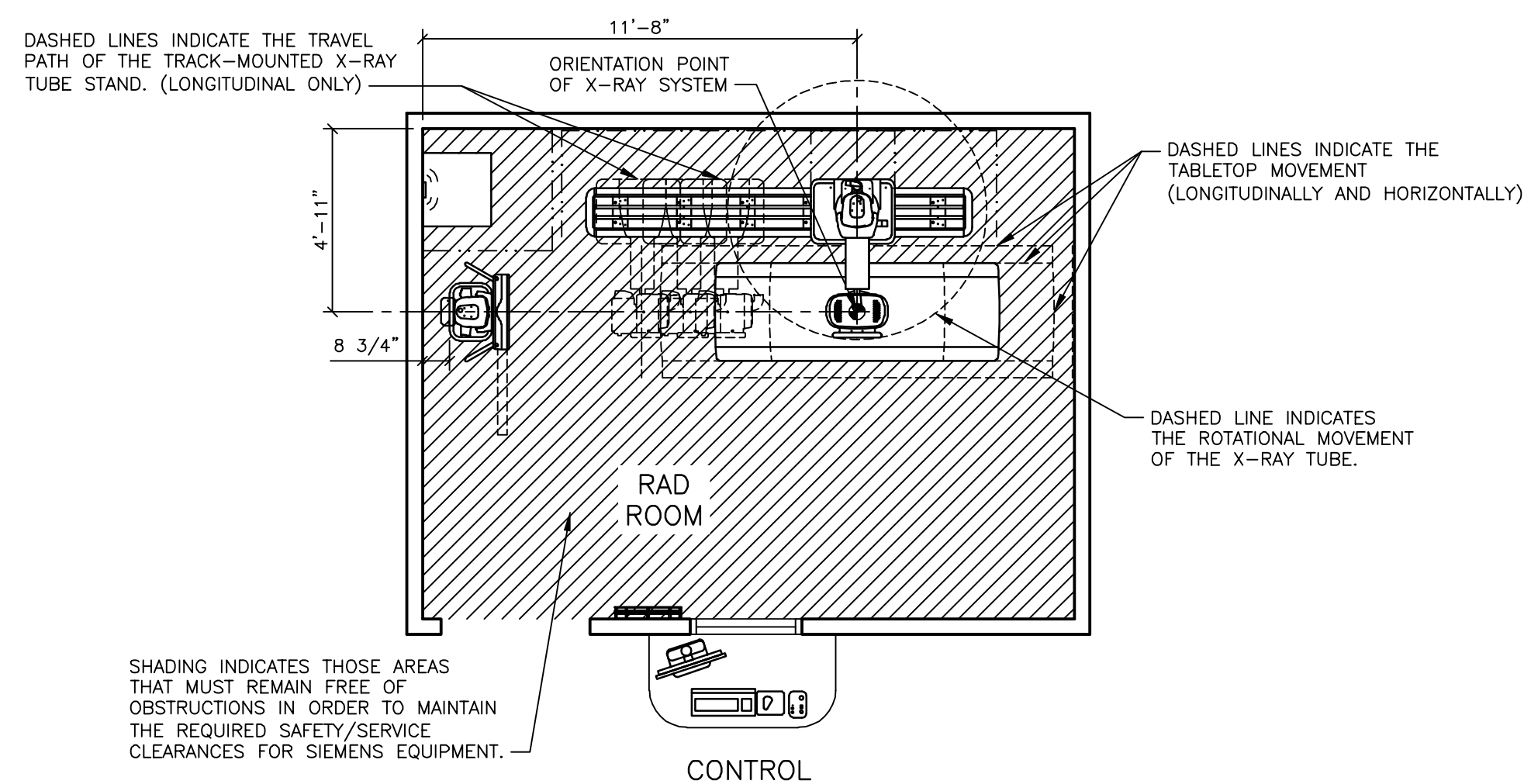


- NOTES:**
- THE FOLLOWING ROOM WIDTHS ACCOMMODATE BED AND STRETCHER ACCESS TO THE FRONT-SIDE OF THE PATIENT TABLE FOR ALL RAIL AND PATIENT TABLE CONFIGURATIONS AVAILABLE WITH THIS SYSTEM.
 - ROOM WIDTH 9'-10" MIN.:
 - CONTROL AREA MUST BE LOCATED OUTSIDE THE EXAM AREA.
 - NO ACCESS WITH PATIENT BEDS.
 - ROOM WIDTH 13'-2" MIN. (AS SHOWN):
 - CONTROL AREA MUST BE LOCATED OUTSIDE THE EXAM AREA.
 - STRETCHER AND BED ACCESS POSSIBLE.
 - ROOM WIDTH 16'-9" MIN.:
 - STRETCHER AND BED ACCESS POSSIBLE WITH CONTROL AREA LOCATED INSIDE THE EXAM AREA.
 - THIS DIMENSION IS RECOMMENDED FOR A LONG RAIL SYSTEM CONFIGURATION. THIS DIMENSION WILL ALSO WORK FOR ALL RAIL AND PATIENT TABLE CONFIGURATIONS AVAILABLE WITH THIS SYSTEM.
- > PLEASE REFER TO THE CHART ON SHEET A-501 FOR ALTERNATIVE SYSTEM CONFIGURATIONS AND RECOMMENDED ROOM SIZES.

ARCHITECTURAL EQUIPMENT PLAN

SCALE: 1/4" = 1'-0"

NOTE: FOR DESCRIPTIONS OF ALL SIEMENS EQUIPMENT SHOWN ON THIS PLAN, SEE THE "ARCHITECTURAL EQUIPMENT PLAN" ON SHEET A-101.



SAFETY/SERVICE CLEARANCE PLAN

SCALE: 1/4" = 1'-0"

ATTENTION:

- THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.

- THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

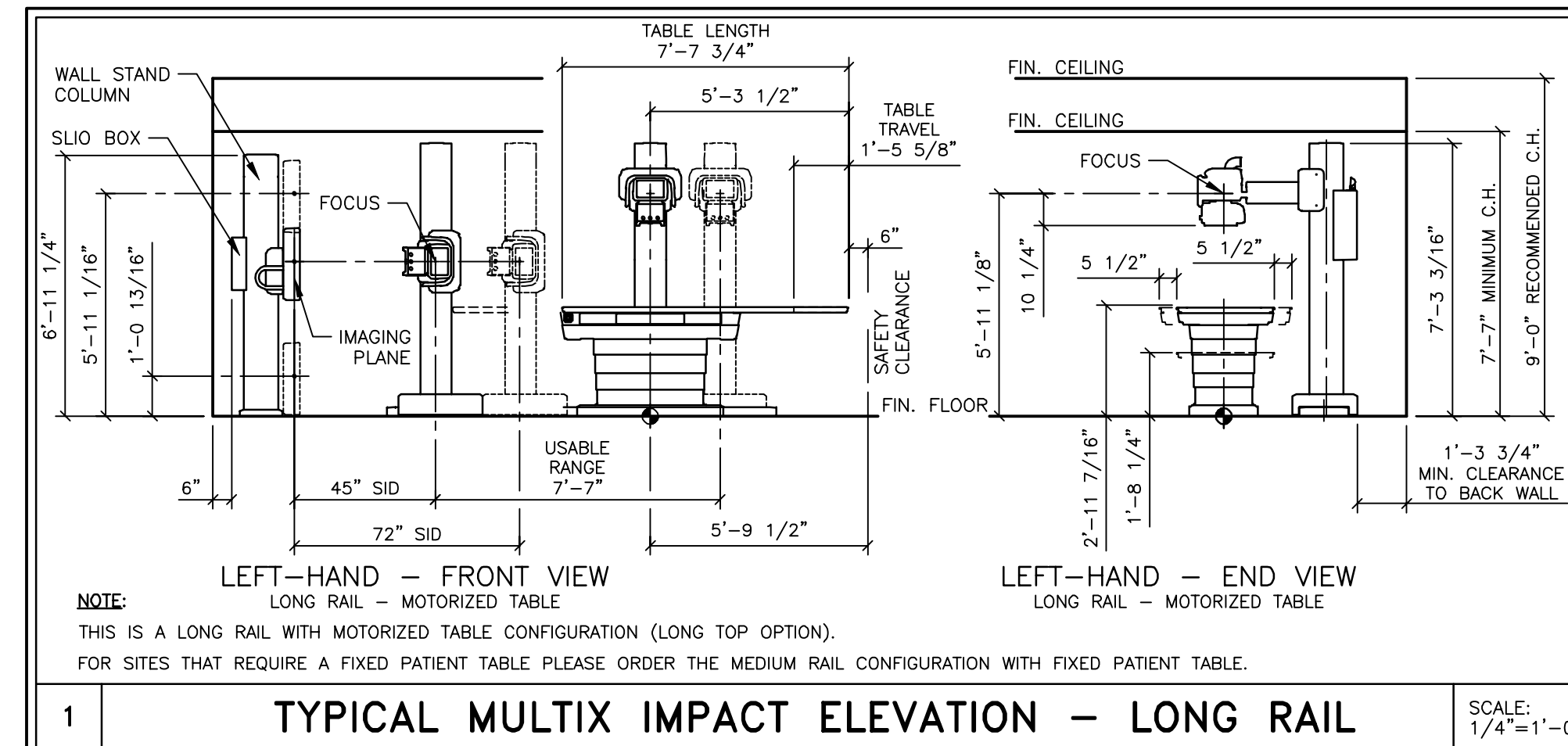
- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.

- THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

EQUIPMENT LEGEND

NO	DESCRIPTION	SMS SYM	WEIGHT (LBS)	BTU/HR TO AIR	DIMENSIONS (INCHES)			REMARKS
					W	D	H	
1	IMAGING SYSTEM, KEYBOARD, MOUSE, AND CONTROL CONSOLE	Ⓢ	22	410	7	23 1/2	*	*17" TO 21"
2	TUBE STAND WITH LONG RAIL (LEFT HAND)	Ⓣ	937	853*	27	124 1/2	87 1/2	*DURING OPERATION, 137 IN STANDBY MODE
3	WALL STAND WITH MOBILE DETECTOR	Ⓦ	0	0	0	0	0	
4	PATIENT TABLE, MOTORIZED	Ⓣ	628	-	31 1/2	91 3/4	*	*20" TO 35 3/4"
5	TABLE TOP - STANDARD	Ⓣ	-	-	31 1/2	91 3/4	1 1/2	
6	POLYDOROS RFX 80 KW GENERATOR CABINET W/ PSU	Ⓣ	287	1,877*	22	23 3/4	52	*DURING OPERATION, 1024 IN STANDBY MODE
7	ACCESS POINT (WALL MOUNTED)	Ⓣ	1	-	5	6 3/8	1	* = INCLUDING ANTENNAE
8	GRID HOLDER (WALL MOUNTED)	Ⓣ	22	-	21 11/16	4	16 9/16	LOCATED AND INSTALLED BY CUSTOMER/CONTRACTOR



1 TYPICAL MULTIX IMPACT ELEVATION - LONG RAIL SCALE: 1/4" = 1'-0"

MULTIX IMPACT TECHNICAL DATA

TRANSPORTING INFORMATION		
COMPONENTS	SIZE (L x W x H)	WEIGHT
TUBE STAND	93" x 40" x 47"	882#
RAIL, 1.3M SHORT	63" x 18" x 9"	238#
RAIL, 2.4M MEDIUM	97" x 18" x 9"	298#
RAIL, 3.2M LONG	128" x 18" x 9"	353#
TABLE, MOTORIZED (W/O TOP)	63" x 36" x 43"	904#
TABLE, FIXED (W/O GENERATOR & TOP)	63" x 36" x 47"	441#
TABLETOP (STANDARD AND SHORT)	95" x 34" x 15"	154#
WALL STAND	93" x 31" x 34"	617#
GENERATOR & PSU CABINET	32" x 32" x 59"	441#
GENERATOR & PSU CABINET FOR FIXED TABLE (PACKAGED WITH IMAGE SYSTEM)	63" x 36" x 40"	331#
MINIMUM DOOR OPENING:	42" [3'-6"]	
MINIMUM CORRIDOR WIDTH:	67" [5'-7"]	

ENVIRONMENTAL CONDITIONS			
	IN OPERATION	TRANSPORT	STORAGE
PERMISSIBLE AMBIENT TEMPERATURE	50°F TO 86°F	-4°F TO 158°F	-4°F TO 158°F
PERMISSIBLE RELATIVE HUMIDITY	20 TO 75%	10 TO 95%	10 TO 95%

REV 0

STATE AGENCY REVIEW

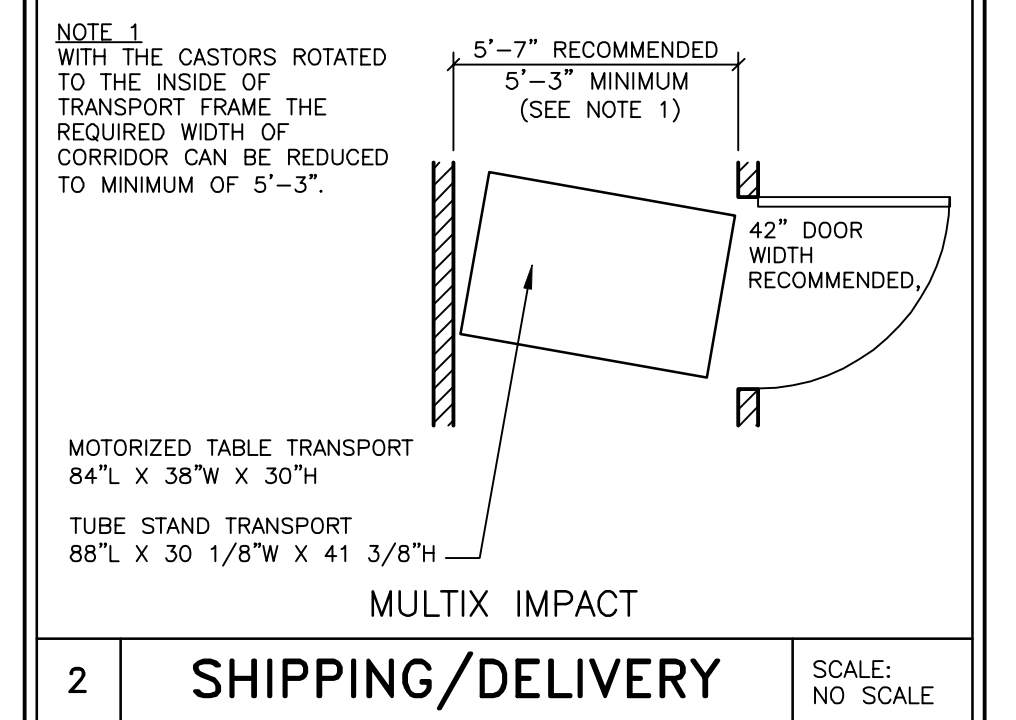
PRIOR TO SIEMENS EQUIPMENT INSTALLATION, APPROVAL OF CONSTRUCTION OR STRUCTURAL MODIFICATIONS UTILIZING X-RAY FOR DIAGNOSTIC OR THERAPEUTIC PURPOSES, MUST BE OBTAINED BY THE CUSTOMER FROM THE APPROPRIATE STATE AGENCY, IF APPLICABLE.

CEILING HEIGHT REQUIREMENTS

SYSTEM CONFIGURATION	CEIL. HT. RANGE
ALL SYSTEM CONFIGURATIONS	7'-7" TO 9'-0"

ARCHITECTURAL NOTES

- ALL PRELIMINARY EQUIPMENT LAYOUTS SUBMITTED BY SIEMENS HEALTHCARE ARE BASED ON THE RECOMMENDED SPACE NECESSARY FOR THE OPERATION AND SERVICEABILITY OF THE EQUIPMENT BEING PROPOSED. SIEMENS WILL NOT SUBMIT AN EQUIPMENT LAYOUT THAT IS NOT IN THE BEST INTEREST OF BOTH THE CUSTOMER AND SIEMENS. ALL EQUIPMENT LAYOUTS ARE BASED EITHER ON AN ACTUAL SITE SURVEY OR ARCHITECTURAL DRAWINGS SUPPLIED TO SIEMENS. SIEMENS WILL NOT BE RESPONSIBLE FOR ANY ALTERATIONS THAT ENDOURCH WITHIN DESIGNATED SAFETY AND SERVICE CLEARANCE ZONES AS INDICATED ON DRAWINGS (I.E. PIPE CHASES, VENTILATION DUCTS, CASEWORK, AND SOFFITS, ETC.) MADE BY THE CUSTOMER OR REQUIRED BY A CUSTOMER'S ARCHITECTURAL FIRM ONCE PRELIMINARY DRAWINGS HAVE BEEN SUBMITTED AND APPROVED. DO NOT ALTER ANY SPECIFICATIONS AND/OR DIMENSIONS WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SIEMENS PROJECT MANAGER.
- SIEMENS HEALTHCARE IS NOT AN ARCHITECTURAL OR ENGINEERING FIRM. DRAWINGS SUPPLIED BY SIEMENS ARE NOT CONSTRUCTION DRAWINGS. THEREFORE, THESE DRAWINGS ARE TO BE USED ONLY FOR INFORMATION TO COMPLEMENT ACTUAL CONSTRUCTION DRAWINGS AVAILABLE FROM A CUSTOMER APPOINTED ARCHITECTURAL REPRESENTATIVE OR A CUSTOMER'S ENGINEERING DESIGN GROUP. THE CUSTOMER'S ARCHITECT AND GENERAL CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE CODES AND PROFESSIONAL DESIGN REQUIREMENTS INCLUDING OSHA/NEC SAFETY CLEARANCE REQUIREMENTS IN ADDITION TO SIEMENS-REQUIRED SAFETY/SERVICE CLEARANCES SHOWN.
- THE CUSTOMER IS RESPONSIBLE FOR ALL ROOM AND AREA PREPARATION COSTS, PROFESSIONAL FEES, PERMITS, REPORTS, AND INSPECTION FEES.
- EQUIPMENT WARRANTIES, EXPRESSED OR IMPLIED ON THE PART OF SIEMENS SHALL BE CONTINGENT UPON STRICT COMPLIANCE WITH THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL AND RECOMMENDATIONS AND REQUIREMENTS CONTAINED IN THESE DRAWINGS, UNLESS SPECIFIED OTHERWISE.
- ALL DIMENSIONS SHOWN ARE FROM FINISHED SURFACES UNLESS SPECIFIED OTHERWISE.
- THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST. ACTUAL PROTECTION REQUIREMENTS SHALL BE SPECIFIED BY A REGISTERED RADIATION PHYSICIST AT CUSTOMER'S ENGAGEMENT AND EXPENSE. RESPONSIBILITY FOR ALL INFORMATION AS TO THE ROOM LOCATION, USE, AND NUMBER OF ANTICIPATED EXAMINATIONS TO BE PERFORMED PER TIME PERIOD SHALL BE PROVIDED TO THE PHYSICIST BY THE CUSTOMER. THE CUSTOMER SHALL FURTHER TAKE ALL RESPONSIBILITY IN THE COMMUNICATION AND COORDINATION OF ACTIVITIES OF THE RADIATION PHYSICIST AND THE ARCHITECTURAL REPRESENTATIVE.
- SIEMENS HEALTHCARE SHALL BE RESPONSIBLE FOR SIEMENS EQUIPMENT INSTALLATION, CALIBRATION, CONNECTION AND INSTALLATION OF SIEMENS PROVIDED CABLES. THE CUSTOMER/ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR TERMINATIONS OF CUSTOMER/ELECTRICAL CONTRACTOR-SUPPLIED CABLES TO SIEMENS EQUIPMENT. IN THE EVENT THAT SPECIFIC TRADE RULES OR LICENSE REQUIREMENTS PROHIBIT THIS, THE CUSTOMER SHALL INITIATE THE SERVICES OF APPROVED OTHER CONTRACTORS AND PAY FOR SELECTED, APPROVED PARTIES TO PERFORM THIS WORK WITH SUPERVISION PROVIDED BY SIEMENS. CALIBRATION WHEN ACCOMPLISHED OUTSIDE OF NORMAL INSTALLATION SEQUENCES DUE TO CONTRACTOR OR TRADE RULE ACTIONS OR REQUIREMENTS SHALL BE SUPPORTED BY, CHARGED TO, AND ACCEPTED BY THE CUSTOMER AS AN ADDITIONAL INSTALLATION EXPENSE.
- THE CUSTOMER SHALL COORDINATE WITH SIEMENS PROJECT MANAGER THE LOCATIONS AND TRAVEL OF ALL ANCILLARY EQUIPMENT TO BE CEILING OR WALL MOUNTED (I.E.: O.R. LIGHTS, MEDICAL GAS COLUMNS, PHYSIOLOGICAL MONITORING INJECTORS, CRT PLATFORMS, SPRINKLER HEADS, SMOKE DETECTORS, ELECTRICAL OUTLETS, HVAC GRILLES, SPEAKERS, AND GENERAL ROOM LIGHTING, ETC.).
- THE GENERAL CONTRACTOR/CUSTOMER SHALL BE RESPONSIBLE FOR ALL FINAL PAINT, TOUCH-UP AND ANY COSMETIC OR TRIM WORK WHICH NEEDS TO BE OR IS REQUIRED TO BE COMPLETED AFTER THE INSTALLATION OF THE SIEMENS EQUIPMENT AND ANY ASSOCIATED SUPPORT APPARATUS.
- CUSTOMER/CONTRACTOR MUST ASSIST SIEMENS INSTALLERS WITH INSTALLATION OF EQUIPMENT ABOVE 14'-0". REFER TO THE ELECTRICAL NOTES ON SIEMENS SHEET E-101 FOR MORE DETAILS.



2 SHIPPING/DELIVERY SCALE: NO SCALE

RESOURCE LIST (SMS USE ONLY)

DESIGNATION	PG NUMBER	DATE
MULTIX IMPACT	XPB1-200.891.01.XX.02	

MULTIX IMPACT REV 0

SIEMENS

MULTIX IMPACT

TYPICAL FINAL DRAWING SET
DIGITAL RADIOGRAPHIC SYSTEM

THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.	PROJECT #:	SHEET:
ALL RIGHTS ARE RESERVED.	19001	A-101
SCALE: AS NOTED	SHEET 1 OF 5	DRAWN BY: J. BALCOM
REF. #:	DATE: 01/25/19	

SYM	DATE	DESCRIPTION
△	N/A	TYPICAL REV 0

-ISSUE BLOCK-

Room Size Category	Room Size L x W	System Configuration	Comments
Small	9'-6" x 9'-10" 2900mm x 3000mm	<ul style="list-style-type: none"> • Tube stand • Short Rail • No Table • Generator & PSU • BWS 	- Control Area must be located outside the Exam Room.
Small	14'-2" x 9'-10" 4300mm x 3000mm	<ul style="list-style-type: none"> • Tube Stand • Medium Rail • Motorized/Fixed Table • Short / Long Table Top • *Generator & PSU • BWS 	<ul style="list-style-type: none"> - Control Area must be located outside the Exam Room. - Stretcher access is possible. - No access with patient beds
Standard	15'-3" x 9'-10" 4650mm x 3000mm	<ul style="list-style-type: none"> • Tube Stand • Medium Rail • Motorized/Fixed Table • Short / Long Table Top • *Generator & PSU • BWS 	<ul style="list-style-type: none"> - Control Area must be located outside the Exam Room. - Stretcher access is possible. - No access with patient beds
Standard	15'-3" x 13'-2" 4650mm x 4000mm	<ul style="list-style-type: none"> • Tube Stand • Medium Rail • Motorized/Fixed Table • Short / Long Table Top • *Generator & PSU • BWS 	<ul style="list-style-type: none"> - Control Area must be located outside the Exam Room. - Stretcher and bed access is possible.

* With motorized table only. Fixed table has an integrated generator & PSU.

Room Size Category	Room Size L x W	System Configuration	Comments
Large	17'-6" x 13'-2" 5334mm x 4013mm	<ul style="list-style-type: none"> • Tube stand • Long Rail • No Table • Generator & PSU • BWS 	<ul style="list-style-type: none"> - Control Area must be located outside the Exam Room. - Stretcher and bed access is possible.
Large	17'-6" x 13'-2" 5334mm x 4013mm	<ul style="list-style-type: none"> • Tube stand • Long Rail • Motorized/Fixed Table • Short / Long Table Top • *Generator & PSU • BWS 	<ul style="list-style-type: none"> - Control Area must be located outside the Exam Room. - Stretcher and bed access is possible.
Large	17'-6" x 16'-9" 5334mm x 5105mm	<ul style="list-style-type: none"> • Tube stand • Long Rail • No Table • Generator & PSU • BWS 	<ul style="list-style-type: none"> - Small Control Area may be located inside the Exam Room. - Stretcher and bed access is possible.
Large	17'-6" x 16'-9" 5334mm x 5105mm	<ul style="list-style-type: none"> • Tube stand • Long Rail • Motorized/Fixed Table • Short / Long Table Top • *Generator & PSU • BWS 	<ul style="list-style-type: none"> - Small Control Area may be located inside the Exam Room. - Stretcher and bed access is possible.

* With motorized table only. Fixed table has an integrated generator & PSU.

RESOURCE LIST (SMS USE ONLY)		
DESIGNATION	PG NUMBER	DATE
MULTIX IMPACT	XPB1-200.891.01.XX.02	

MULTIX IMPACT
REV 0

MINIMUM CEILING HEIGHT	RECOMMENDED CEILING HEIGHT
7'-7"	9'-0"

		MULTIX IMPACT <small>TYPICAL FINAL DRAWING SET DIGITAL RADIOGRAPHIC SYSTEM</small>	
THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.		SHEET 2 OF 5	DRAWN BY: J. BALCOM
ALL RIGHTS ARE RESERVED.		DATE: 01/25/19	SCALE: AS NOTED
REF. #		-ISSUE BLOCK-	

ATTENTION:

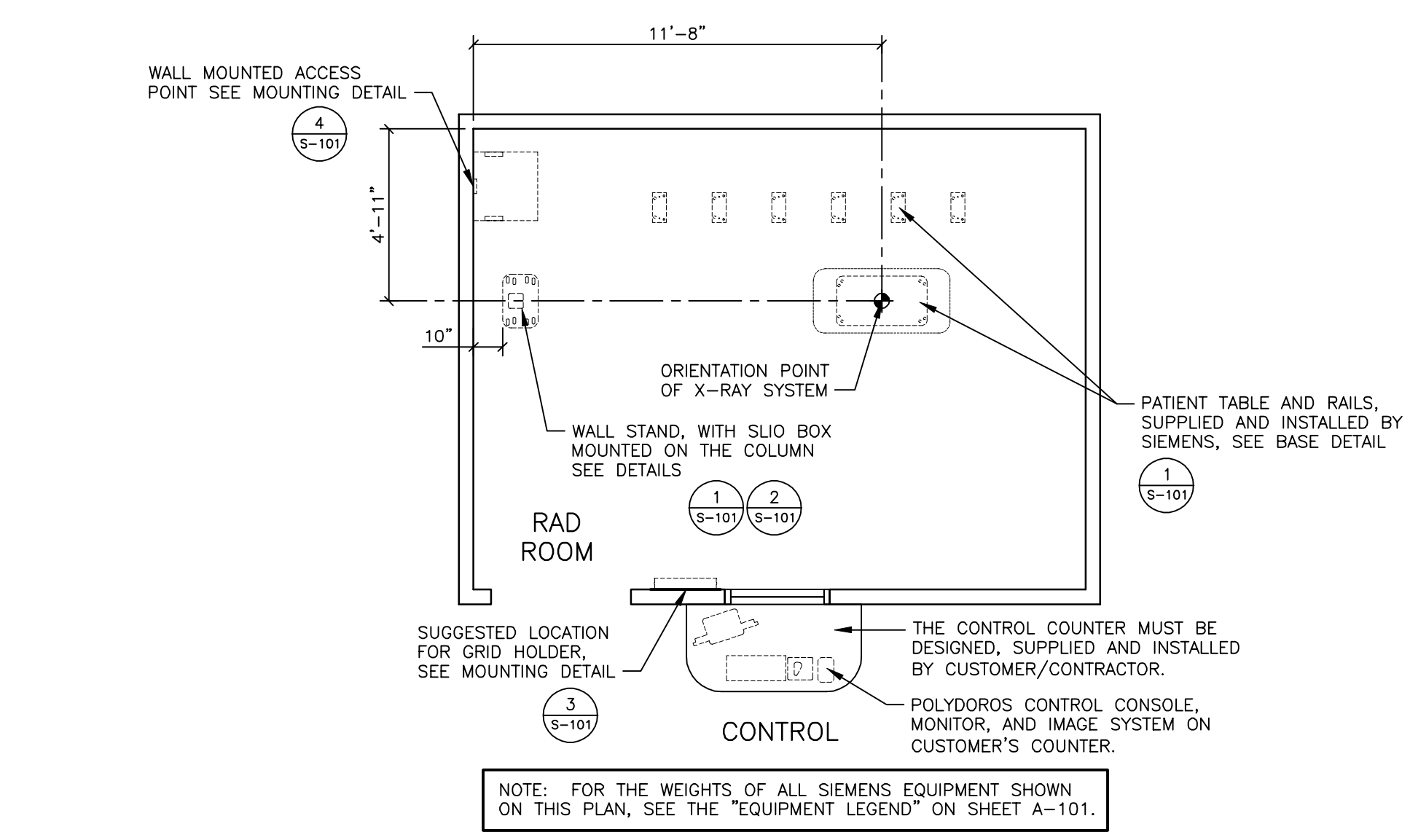
- THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.
 - THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.
 - IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.
 - ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.
 - THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

STRUCTURAL NOTES

- 1) THE CUSTOMER/CONTRACTOR SHALL FURNISH AND INSTALL ALL STRUCTURAL SUPPORT MEMBERS AND NEEDED HARDWARE FOR THE INSTALLATION OF THE SIEMENS EQUIPMENT.
- 2) THE OVERHEAD STRUCTURAL SUPPORT SYSTEM SHALL BE FIXED, RIGID AND BRACED FOR SWAY.
- 3) ALL STRUCTURAL SUPPORT MEMBERS SHALL BE TRUE, SQUARE, LEVEL, PARALLEL AND COPLANAR WITH RESPECT TO EACH OTHER, WITH A HORIZONTAL STRUCTURAL SUPPORT MEMBER TO BE LOCATED AND SET WITH A TRANSIT.
- 4) ALL STRUCTURAL SUPPORT DETAILS SHOWN ARE SAMPLE DETAILS BASED UPON TYPICAL AND STANDARD BUILDING PRACTICES AND ARE NOT INTENDED AS ACTUAL CONSTRUCTION DETAILS. ALL CONSTRUCTION DETAILS AND SUPPORT CALCULATIONS SHALL BE PREPARED BY A PROFESSIONAL STRUCTURAL ENGINEER AT THE CUSTOMER'S EXPENSE. IN THE EVENT AN EXISTING SUPPORT SYSTEM IS TO BE USED, IT WILL BE THE CUSTOMER'S RESPONSIBILITY TO VERIFY THE INTEGRITY OF THAT SYSTEM.
- 5) MOUNTING PLATES, FRAMES, AND HARDWARE SUPPLIED BY SIEMENS AS DETAILED IN THIS DRAWING SET ARE INSTALLED BY SIEMENS UNLESS OTHERWISE REQUIRED. ANY DEVIATION FROM THE PROVIDED MATERIALS OR MOUNTING METHODS MUST BE DESIGNED AND DOCUMENTED BY THE STRUCTURAL ENGINEER OF RECORD. ALTERNATE MOUNTING MATERIALS (I.E. ANCHORS, THREADED ROD, BACKING PLATES, ETC.) MUST BE SUPPLIED BY THE CUSTOMER/CONTRACTOR. SIEMENS MAY REQUIRE ASSISTANCE FROM THE CUSTOMER/CONTRACTOR WITH INSTALLATION WHEN UTILIZING ALTERNATE MOUNTING MATERIALS.
- 6) ALL CEILING FIXTURES (I.E. AIR SUPPLY GRILLES, AIR RETURN GRILLES, EXHAUST GRILLES, SPRINKLER HEADS, INCANDESCENT AND FLUORESCENT LIGHT FIXTURES, INTERCOM SPEAKERS, MEDICAL GAS COLUMNS, ETC.) SHALL BE INSTALLED FLUSH MOUNTED WITH THE FINISHED CEILING TO PROVIDE FREE AND UNRESTRICTED TRAVEL OF THE SMS CEILING MOUNTED EQUIPMENT.
- 7) THE BOTTOM SIDE OF THE UNISTRUT CEILING GRID AND ANY CEILING MOUNTED SUPPORT PLATES ARE TO BE INSTALLED FLUSH WITH THE FINISHED CEILING. THE CUSTOMER/CONTRACTOR SHALL ALSO PROVIDE COVERSTRIPS FOR THE UNISTRUT.
- 8) THE STRUCTURAL PLANNING AS SHOWN ON THE 1/4" STRUCTURAL PLAN HAS BEEN COORDINATED WITH THE EQUIPMENT LOCATION AS SHOWN ON THE 1/4" EQUIPMENT LAYOUT PLAN. FOR THIS REASON, ANY DEVIATIONS FROM THE STRUCTURAL PLANNING AS SHOWN MUST BE APPROVED BY SMS PLANNING DEPARTMENT.
- 9) THE STRUCTURAL ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR THE DESIGN AND DETAIL OF FLOOR, WALL, AND CEILING STRUCTURES IN ACCORDANCE WITH THE STRUCTURAL INFORMATION SHOWN, AND LOCAL GOVERNING BUILDING CODES.
- 10) ALL ANCHORS, SUPPORTS AND BRACES FOR SECURING THE SIEMENS EQUIPMENT ON THE UNDERSIDE OF THE CONCRETE SLAB (WHETHER SUPPLIED BY SIEMENS OR CONTRACTOR) SHALL BE SECURED IN A MANNER TO PREVENT THEM FROM FALLING DURING A DE-INSTALLATION. ALL WORK FOR SECURING THESE MOUNTS SHALL BE BY THE CONTRACTOR.

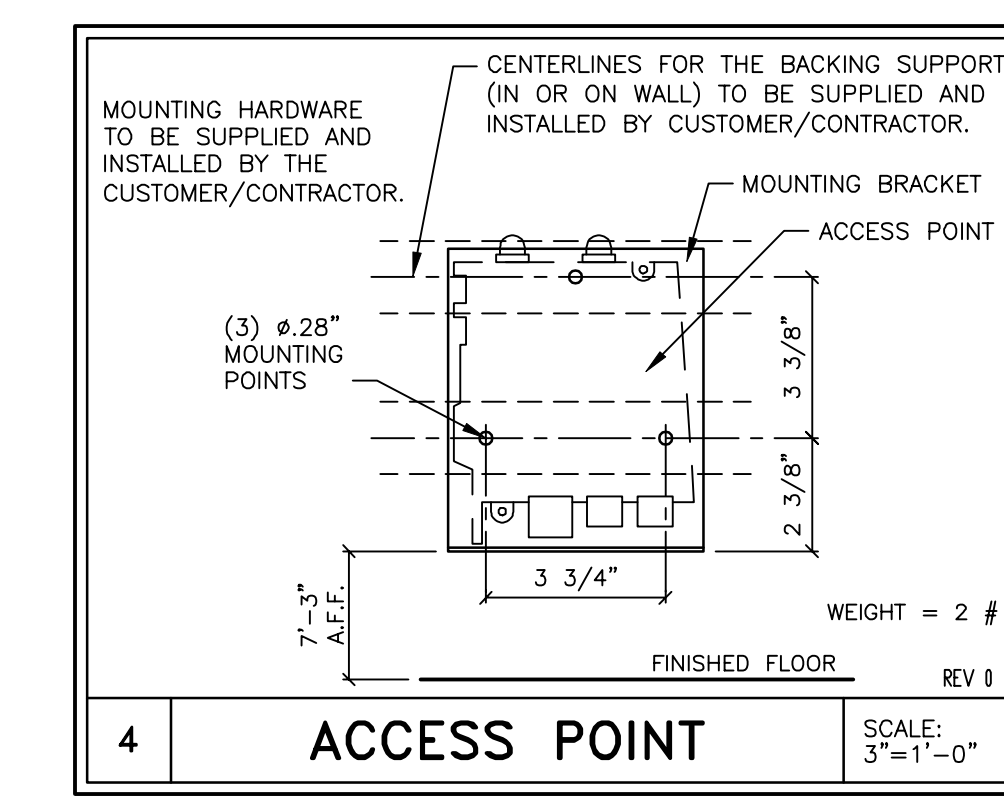
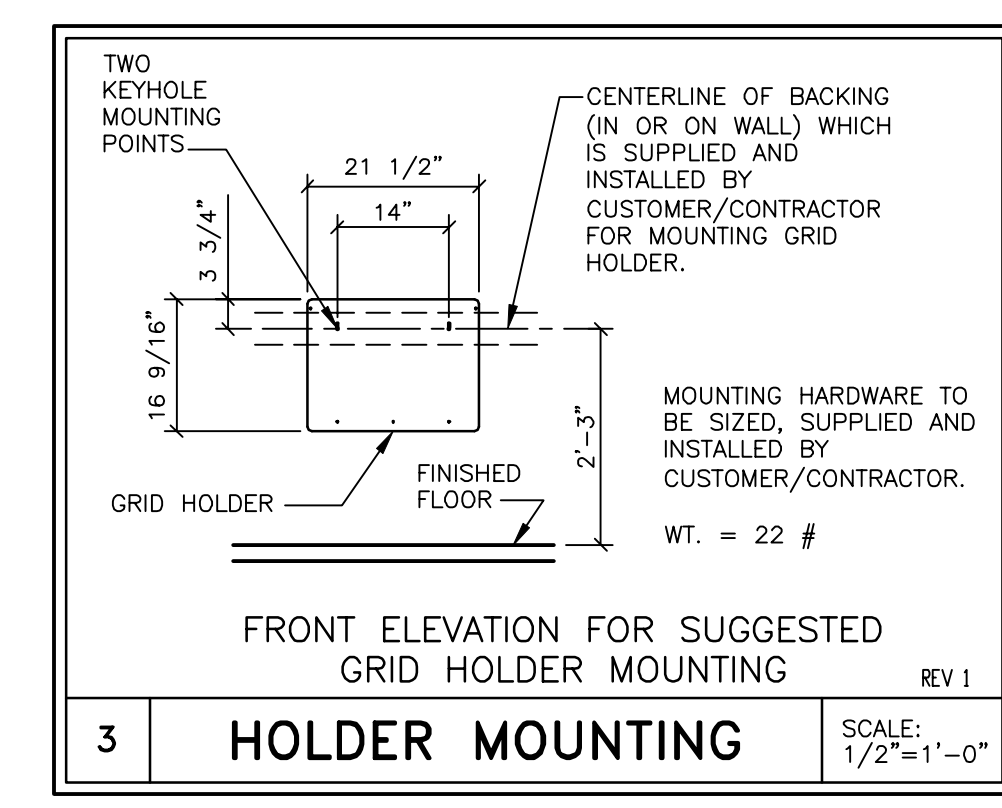
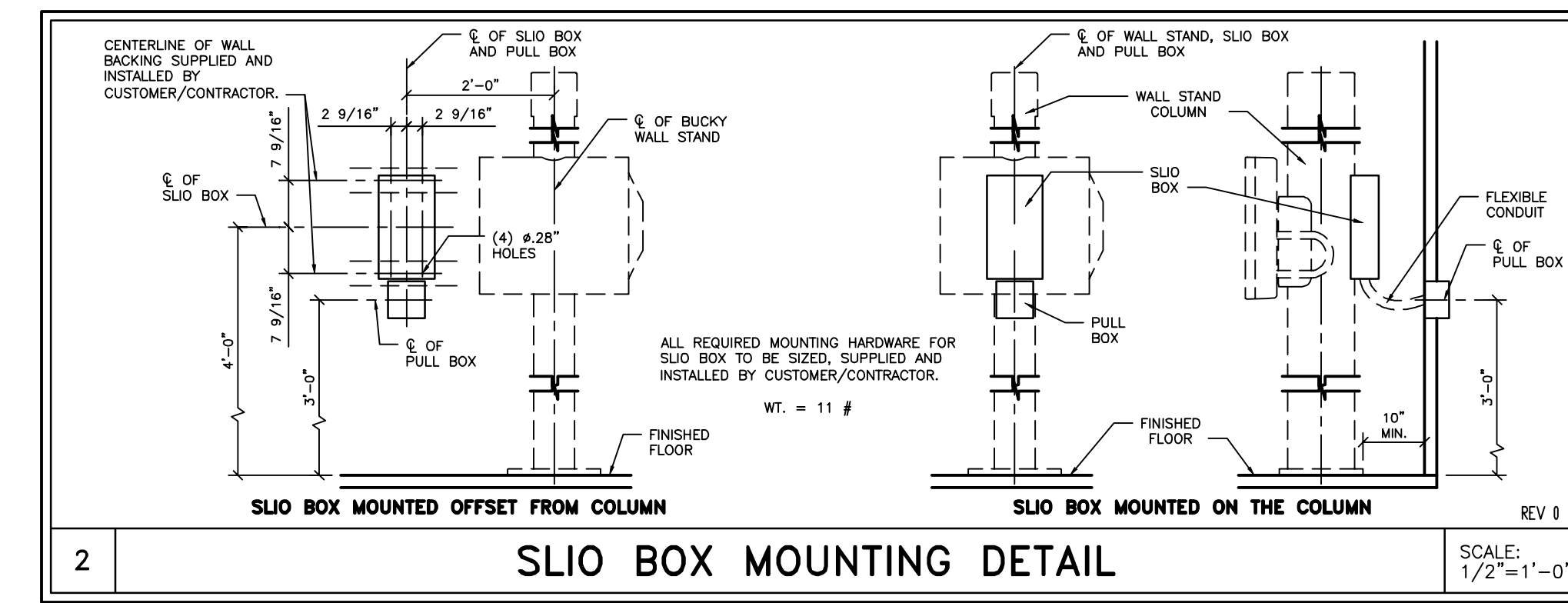
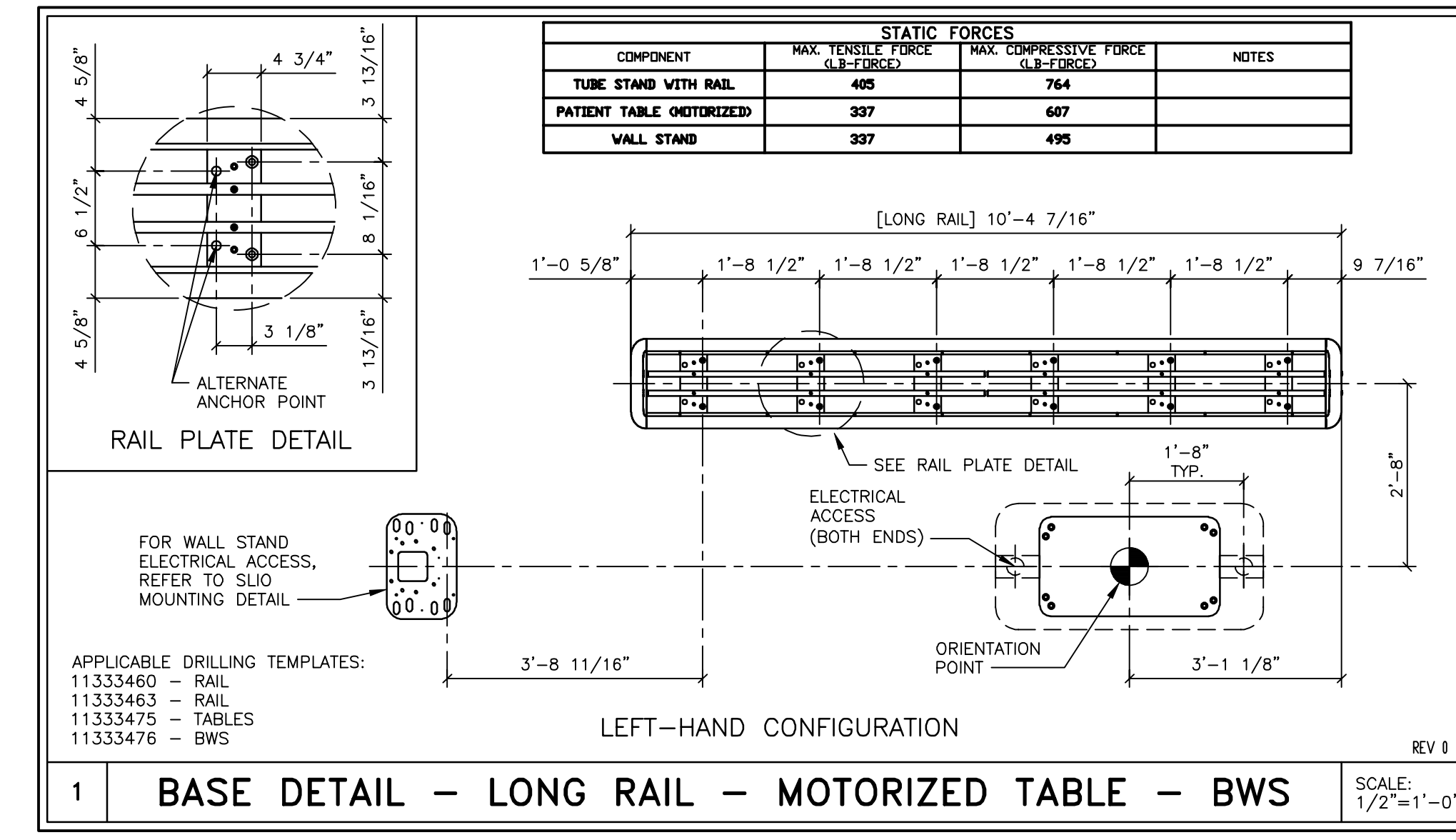
ACCESSORY ITEMS MOUNTING

VARIOUS ACCESSORY ITEMS MAY BE PURCHASED WITH THIS SIEMENS SYSTEM THAT INCLUDE STORAGE BRACKETS FOR WALL MOUNTING. THE LOCATION OF THESE ITEMS WILL DEPEND ON EACH CUSTOMER'S PREFERENCE AND WORKFLOW. FOR ALL ACCESSORY ITEMS PURCHASED, THE CUSTOMER IS RESPONSIBLE FOR LOCATING AND INSTALLING ALL STORAGE BRACKETS, AND PROVIDING ANY NECESSARY BACKING OR MOUNTING SUPPORT FOR THESE ITEMS.



STRUCTURAL FLOOR PLAN

SCALE: 1/4" = 1'-0"



MINIMUM CEILING HEIGHT	RECOMMENDED CEILING HEIGHT
7'-7"	9'-0"

<p>SIEMENS</p> <p>MULTIX IMPACT</p> <p>TYPICAL FINAL DRAWING SET DIGITAL RADIOGRAPHIC SYSTEM</p>		PROJECT #:	SHEET:
		19001	S-101
THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.		SHEET 3 OF 5	DRAWN BY: J. BALCOM
ALL RIGHTS ARE RESERVED.		DATE: 01/25/19	
SCALE: AS NOTED	REF. #:		

ATTENTION:

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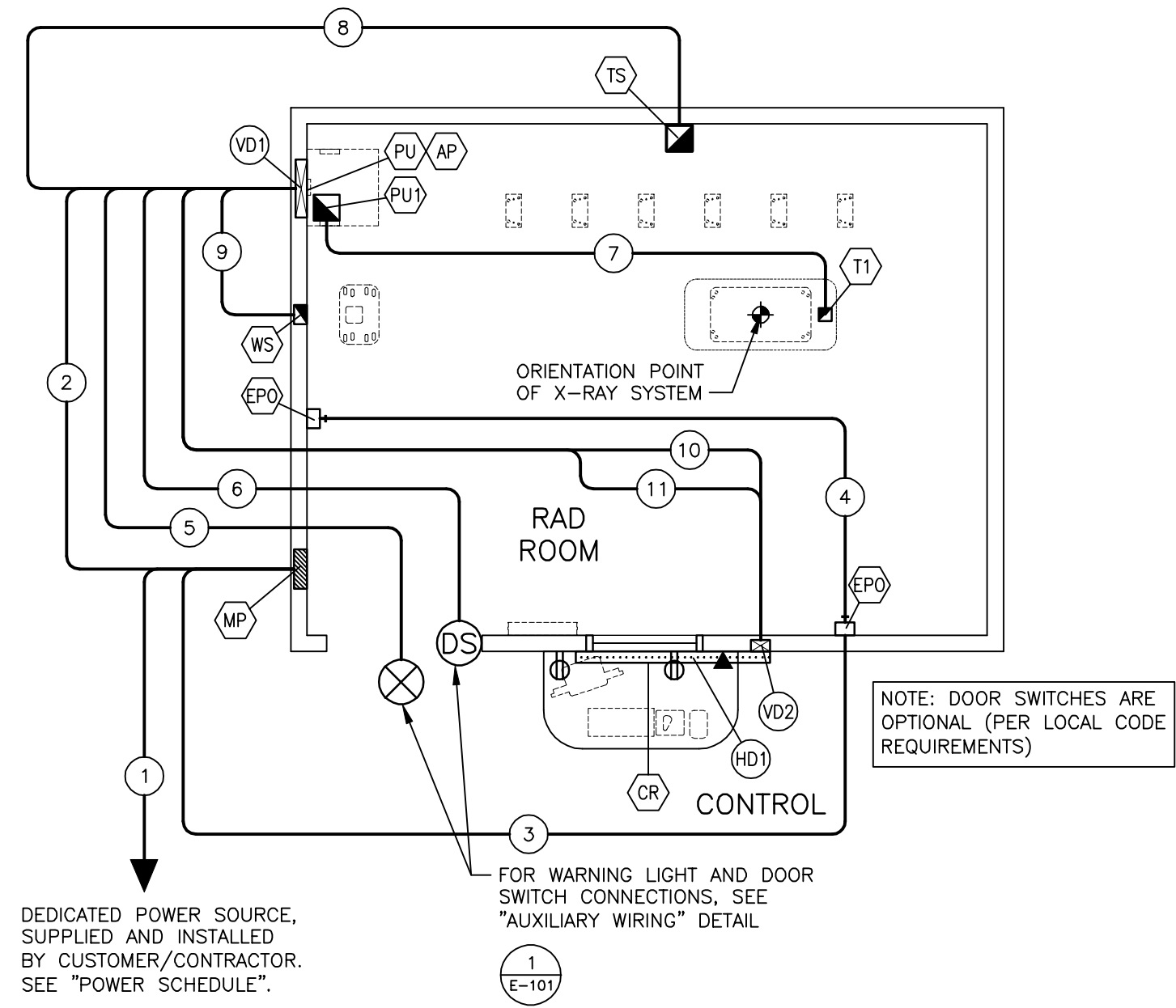
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△	N/A	TYPICAL REV 0
SYM	DATE	DESCRIPTION
-ISSUE BLOCK-		

MULTIX IMPACT
REV 0



ELECTRICAL RACEWAY PLAN

SCALE: 1/4" = 1'-0"

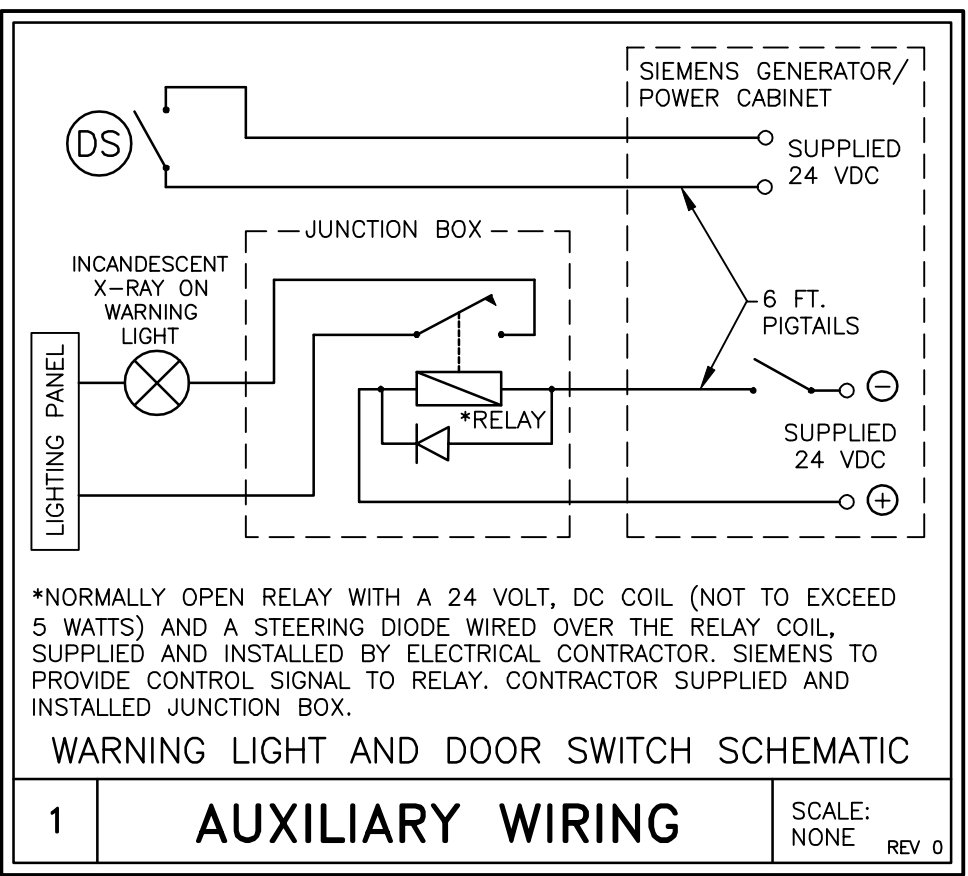
CONTRACTOR SUPPLIED CABLES

FROM	VIA	TO	DESCRIPTION	REMARKS
PANEL	1	MP	DETERMINED BY ELECTRICAL CONTRACTOR.	SEE POWER SCHEDULE.
MP	2,VD1	PU	DETERMINED BY ELECTRICAL CONTRACTOR.	SEE POWER SCHEDULE
MP	3	EPO	DETERMINED BY ELECTRICAL CONTRACTOR.	SEE POWER SCHEDULE
EPO	4	EPO	DETERMINED BY ELECTRICAL CONTRACTOR.	SEE POWER SCHEDULE
PU	VD1,5	WL	DETERMINED BY ELECTRICAL CONTRACTOR.	SEE AUXILIARY WIRING
PU	VD1,6	DS	DETERMINED BY ELECTRICAL CONTRACTOR.	SEE AUXILIARY WIRING
-	-	-	NOTES: 1. ELECTRICAL CONTRACTOR MUST PROVIDE 12 FT. (MIN.) OF ADDITIONAL CABLE TO ACCOMMODATE TERMINATING CONNECTIONS. COORDINATE WITH SIEMENS PROJECT MANAGER DURING INSTALLATION.	

SYMBOLS

ALL MAY NOT APPLY

[Symbol]	MAIN PANEL OR ENCLOSURE BY CUSTOMER/CONTRACTOR
[Symbol]	OPENING IN RACEWAY OR TRENCHDUCT
[Symbol]	PULLBOX IN (FLOOR/WALL/CEILING)
[Symbol]	OPENING IN ACCESS FLOORING
[Symbol]	WARNING LIGHT (X-RAY ON)
[Symbol]	DOOR SAFETY SWITCH
[Symbol]	(EPO) EMERGENCY POWER OFF BUTTON
[Symbol]	TRENCHDUCT
[Symbol]	CEILING DUCT
[Symbol]	UNDER FLOOR DUCT
[Symbol]	SURFACE DUCT
[Symbol]	VERTICAL DUCT
[Symbol]	ETHERNET CONNECTION TO CUSTOMER'S INFORMATION SYSTEMS NETWORK (VERIFY WITH SMS PROJECT MANAGER).
[Symbol]	110 VOLT, 20 AMP, HOSPITAL GRADE DUPLEX OUTLET UNLESS OTHERWISE STATED.
[Symbol]	110 VOLT, 20 AMP, HOSPITAL GRADE QUAD OUTLET
[Symbol]	SPECIAL PURPOSE RECEPTACLE



ELECTRICAL LEGEND

SYM	SIZE	DESCRIPTION	REMARKS
[Symbol]	----	OPENING IN FACE OF "VD1" AT 7'-3" ABOVE THE FINISHED FLOOR.	FOR WALL MOUNTED ACCESS POINT
[Symbol]	6"x6"	OPENING IN FACE OF "HD1".	FOR CONTROL EQUIPMENT
[Symbol]	----	EMERGENCY POWER OFF BUTTON WITH PROTECTIVE COVER, MOUNTED 5'-0" ABOVE THE FINISHED FLOOR.	SEE POWER SCHEDULE
[Symbol]	----	MAIN PANEL WITH MAIN BREAKER. EXACT LOCATION DETERMINED BY CUSTOMER/CONTRACTOR.	SEE POWER SCHEDULE
[Symbol]	18"x6"	OPENING IN FACE OF "VD1" AT THE FLOOR LINE.	FOR GENERATOR CABINET & PSU
[Symbol]	8"x8"x6"	PULL BOX MOUNTED FLUSH WITH FINISHED FLOOR AND FITTED WITH WATERPROOF COVER.	FOR GENERATOR CABINET & PSU
[Symbol]	4"x4"x4"	PULL BOX MOUNTED FLUSH WITH FINISHED FLOOR AND FITTED WITH WATERPROOF COVER.	FOR MOTORIZED TABLE
[Symbol]	8"x8"x8"	PULL BOX MOUNTED FLUSH WITH FINISHED CEILING, WITH REMOVABLE COVER	FOR X-RAY TUBE STAND
[Symbol]	6"x6"x4"	PULL BOX MOUNTED FLUSH WITH FINISHED WALL, CENTERLINE 36" ABOVE THE FINISHED FLOOR, WITH GROMMETED REMOVABLE COVER AND FLEXIBLE CONDUIT CONNECTION TERMINATING AT THE BOTTOM OF SLO BOX.	BWS (SLO BOX)
[Symbol]	6"x3 1/2"	HORIZONTAL DUCT SURFACE MOUNTED ON WALL, 12" ABOVE THE FLOOR LINE, AND CONNECTED TO "VD2" (UNDER CONTROL COUNTER). THIS DUCT MUST BE DIVIDED INTO TWO EQUAL SECTIONS, TO PROVIDE FOR SEPARATION OF CABLES.	CONTROL AREA (EXCESS CABLE STORAGE)
[Symbol]	18"x3 1/2"	VERTICAL DUCT MOUNTED FLUSH WITH FINISHED WALL FROM ABOVE THE FINISHED CEILING TO END AT "HD1". THIS DUCT MUST BE DIVIDED INTO TWO SECTIONS: THREE 6" SECTIONS, TO PROVIDE FOR SEPARATION OF CABLES.	FOR GENERATOR CABINET & PSU
[Symbol]	6"x3 1/2"	VERTICAL DUCT MOUNTED FLUSH WITH FINISHED WALL FROM ABOVE THE FINISHED CEILING TO END AT "HD1". THIS DUCT MUST BE DIVIDED INTO TWO EQUAL SECTIONS, TO PROVIDE FOR SEPARATION OF CABLES.	CONTROL AREA
[Symbol]	-	NOTES: 1. WARNING LIGHTS AND DOOR SWITCHES ARE SUPPLIED AND INSTALLED BY THE CUSTOMER/CONTRACTOR. SEE "AUXILIARY WIRING" DETAIL.	
[Symbol]	AS REQUIRED	CONDUIT FROM POWER SOURCE TO MAIN PANEL (MP).	SIZED BY ELEC. CONTRACTOR
[Symbol]	----	CONDUIT FROM "MP" TO "VD1" (PU). (POWER TO "PU")	SIZED BY ELEC. CONTRACTOR
[Symbol]	----	CONDUIT FROM "MP" TO "EPO".	SIZED BY ELEC. CONTRACTOR
[Symbol]	AS REQUIRED	CONDUIT FROM "EPO" TO "EPO".	SIZED BY ELEC. CONTRACTOR
[Symbol]	AS REQUIRED	CONDUIT FROM "VD1" (PU) VIA RELAY CIRCUITRY TO WARNING LIGHT.	SIZED BY ELEC. CONTRACTOR
[Symbol]	AS REQUIRED	CONDUIT FROM "VD1" (PU) TO DOOR SWITCH.	SIZED BY ELEC. CONTRACTOR
[Symbol]	2" DIA.	CONDUIT FROM "PU" TO "T1" (MOTORIZED TABLE).	MAX. CONDUIT LENGTH 52.5 FT.
[Symbol]	3" DIA.	CONDUIT FROM "VD1" (PU) TO "TS".	MAX. CONDUIT LENGTH 20 FT.
[Symbol]	2" DIA.	CONDUITS FROM "VD1" (PU) TO "WS".	MAX. CONDUIT LENGTH 39.5 FT.
[Symbol]	1 1/2" DIA.	CONDUITS FROM "VD1" (PU) TO "VD2" (CR).	MAX. CONDUIT LENGTH 46 FT.
[Symbol]	1" DIA.	CONDUITS FROM "VD1" (AP) TO "VD2" (CR).	MAX. CONDUIT LENGTH 46 FT.

SIEMENS SUPPLIED CABLES

FROM	VIA	TO	DESCRIPTION	REMARKS
PU1	7	T1	TBD	MAX. LENGTH 52.5 FT.
PU	VD1,8	TS	TBD	MAX. LENGTH 33 FT.
PU	VD1,9	WS	TBD	MAX. LENGTH 52.5 FT.
PU	VD1,10	CR	TBD	MAX. LENGTH 66 FT.
AP	VD1,11,VD2,HD1	CR	TBD	MAX. LENGTH 66 FT.

CABLE SEPARATION

THIS ELECTRICAL RACEWAY PLAN DEPICTED IN THIS DRAWING IS PLANNED ACCORDING TO SIEMENS SYSTEM REQUIREMENTS AND UL CERTIFICATION OF THIS SYSTEM. ADDITIONAL SEPARATION OF THE SYSTEM CABLE SETS INTO SEPARATE OR PARTITIONED RACEWAYS UNLESS OTHERWISE NOTED IS NOT NECESSARY TO ENSURE SEPARATION OF CIRCUITS. INTERCONNECTING CABLE SETS ARE TESTED AS PART OF THE SYSTEM, AND ARE NOT CONSIDERED PREMISE WIRING.

THE CUSTOMER ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR ANY ADDITIONAL SEPARATION REQUIREMENTS INCLUDING, BUT NOT LIMITED TO: DETERMINING THE NEED FOR ADDITIONAL SEPARATION AND DETERMINING ANY ADDITIONAL ITEMS NEEDED OTHER THAN THOSE IDENTIFIED ON THIS PLAN.

CONDUIT LENGTH CALCULATIONS

FOR SITE SPECIFIC INSTANCES WHERE CABLES ARE BEING ROUTED IN A COMBINATION OF CONDUIT AND DUCTS, THE MAXIMUM LENGTH FOR THOSE CONDUITS, AS LISTED ON THE ELECTRICAL LEGEND, HAS BEEN CALCULATED BASED UPON THE DUCT LAYOUT SHOWN AND THE FOLLOWING ASSUMED VALUES:

- VERTICAL DUCTS - 10'-0"
- FLOOR PENETRATIONS THROUGH CONCRETE SLAB - 3'-0"

IF THE ACTUAL SITE SPECIFIC CONDITIONS EXCEED THESE ASSUMED VALUES AND/OR THE DUCT LOCATIONS ARE ALTERED, IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO RECALCULATE THE MAXIMUM LENGTH OF THE CONDUITS

REV 0

CONTRACTOR SUPPLIED ITEMS

ALL ITEMS, INCLUDING BUT NOT LIMITED TO CONDUITS, DUCTS, CIRCUIT BREAKERS, EMERGENCY OFF BUTTONS, DOOR SWITCHES, AND WARNING LIGHTS, SHOWN IN THESE PLANS ARE TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER/ELECTRICAL CONTRACTOR, UNLESS OTHERWISE SPECIFIED.

CABLE LENGTH LIMITATIONS

THE CONDUITS ARE SHOWN SCHEMATICALLY IN THIS PLAN AND MUST BE RUN IN THE SHORTEST POSSIBLE DISTANCE BETWEEN TERMINATION POINTS. ANY VARIATION IN THE ROUTING OF DUCTS COULD RESULT IN CABLE LENGTH LIMITATIONS BEING EXCEEDED. THEREFORE, ANY CHANGES MUST BE APPROVED BY THE SIEMENS PROJECT MANAGER.

ELECTRICAL NOTES

- COMPLIANCE: ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NFPA-70), O.S.H.A. REGULATIONS, AS WELL AS APPLICABLE REGULATIONS OF CITY, COUNTY, STATE AND FEDERAL AGENCIES. PROVIDE MATERIALS AND EQUIPMENT THAT COMPLY WITH ANSI, IEEE AND NEMA STANDARDS AND ARE U.L. LISTED AND LABELED. THE CUSTOMER'S/CONTRACTOR'S WORK AND ALL EQUIPMENT INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE ADOPTED/ENFORCED BY THE AUTHORITY HAVING JURISDICTION.
- QUALITY ASSURANCE: THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD TO INSURE THAT THE NEW WORK WILL FIT INTO THE EXISTING STRUCTURE AS SHOWN ON THE DRAWINGS. SHOULD ANY CONDITIONS EXIST OR BE DISCOVERED THAT PREVENT THE INSTALLATION OF WORK AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO FABRICATION OF EQUIPMENT, OR THE PERFORMANCE OF ANY WORK THAT MAY BE AFFECTED. DO NOT ALTER DRAWINGS, DIMENSIONS, OR SPECIFICATIONS IN ANY WAY WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SIEMENS PROJECT MANAGER. ALL DIMENSIONS ARE FROM FINISHED SURFACES. CONDUIT AND PULL BOXES TO BE INSTALLED BY THE CUSTOMER/CONTRACTOR WITH LOCATIONS BEING FIELD VERIFIED BY THE SIEMENS PROJECT MANAGER.
- POWER SUPPLY SOURCE: POWER SUPPLIES FOR SIEMENS HEALTHCARE EQUIPMENT SHALL BE FROM A MEDICAL IMAGING PANEL OR BUILDING SERVICE EQUIPMENT THAT IS A GROUNDED 3 OR 4-WIRE "WYE" SOURCE PER THE SPECIFIC EQUIPMENT OPERATION REQUIREMENTS. A DEDICATED CIRCUIT SHALL BE PROVIDED THAT IS KEPT ENTIRELY FREE AND INDEPENDENT OF ALL OTHER BUILDING WIRING. NO ELEVATORS, GENERATORS, PUMPS, HVAC OR SIMILAR EQUIPMENT SHALL BE CONNECTED TO THE SAME CIRCUIT OR MEDICAL IMAGING PANEL THAT SERVES THE SIEMENS HEALTHCARE EQUIPMENT. IF THE POWER SUPPLY SOURCE DOES NOT MEET THE SPECIFIC SIEMENS EQUIPMENT POWER REQUIREMENTS, THE CONTRACTOR SHALL PROVIDE THE NECESSARY EQUIPMENT AND ESTABLISHMENTS TO THE POWER SUPPLY IN ACCORDANCE WITH THE REQUIRED POWER SUPPLY PARAMETERS OF THE SIEMENS EQUIPMENT. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE CUSTOMER AND/OR UTILITY COMPANY FIELD REPRESENTATIVE.
- WORK FURNISHED BY CUSTOMER/CONTRACTOR: WORK NOT PROVIDED BY SIEMENS HEALTHCARE BUT SHOWN ON DRAWINGS TO BE FURNISHED AND INSTALLED BY CUSTOMER/CONTRACTOR INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING, UNLESS NOTED OTHERWISE: ELECTRICAL RACEWAYS AND DUCTS, WIRING TROUGHS, PULL BOXES, CONDUITS, CIRCUIT BREAKERS, ACCESS PANELS, EMERGENCY OFF BUTTONS, DOOR SWITCHES, WARNING LIGHTS, WIRING DEVICES, CONNECTORS, LIGHTING EQUIPMENT AND GROUNDING.
- RACEWAY AND CONDUIT NOTES: ALL CONDUITS SHALL BE INSTALLED IN COMPLIANCE WITH THE CURRENT ENFORCED EDITION OF THE NATIONAL ELECTRICAL CODE. CONDUIT BODIES SHALL NOT BE USED, WHERE A CONDUIT ENTERS A BOX, FITTING, OR OTHER ENCLOSURE, AN INSULATED THROUGH CONNECTOR SHALL BE PROVIDED TO PROTECT THE WIRE FROM ABRASION. ALL CONNECTORS FOR EMT SHALL BE COMPRESSION OR DOUBLE SET SCREW TYPE. KEEP RACEWAYS AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF FLUES OR STEAM AND HOT WATER PIPES. INSTALL RACEWAYS RUNS ABOVE WATER AND STEAM PIPES PROVIDED THAT CABLE RUN DISTANCES ARE MAINTAINED. USE TEMPORARY CLOSURES TO PREVENT FOREIGN MATTER FROM ENTERING RACEWAY. CONDUIT RUNS ARE SHOWN SCHEMATICALLY. INSTALL CONDUIT WITH A MINIMUM OF BENDS IN THE SHORTEST PRACTICAL DISTANCE CONSIDERING THE BUILDING CONSTRUCTION AND OBSTRUCTIONS, EXCEPT AS OTHERWISE INDICATED. THE CONTRACTOR SHALL MAKE CERTAIN THAT ANY CONDUIT/RACEWAY RUNS CONTAINING SIEMENS HEALTHCARE CABLES DO NOT EXCEED THE SPECIFIED MAXIMUM DISTANCES AS SHOWN ON THE ELECTRICAL DETAILS. LISTED CONDUIT SIZES FOR SIEMENS-SUPPLIED CABLES MUST BE MAINTAINED IN ORDER TO ENABLE THE TOTAL CABLE BUNDLE INCLUDING CONNECTORS TO BE PULLED THROUGH WITHOUT DAMAGE. PROVIDE ENCLOSED METAL WIRE DUCT RACEWAY SYSTEM WHERE SHOWN ON DRAWINGS WITH DIVIDERS TO SEPARATE THE DUCT INTO TWO OR THREE SEPARATE COMPARTMENTS AS SHOWN ON THE SIEMENS PLANS (FOR POWER AND SIEMENS HEALTHCARE CABLES). DIVIDERS AND CROSSOVER PIECES TO BE PROVIDED AS NECESSARY. THE CABLE TO CABLE AS WELL AS THE CIRCUIT TO CIRCUIT SEPARATION REQUIREMENT WAS EVALUATED DURING THE UL SYSTEM CERTIFICATION OF THE EQUIPMENT. ADDITIONAL SEPARATION OF THE SYSTEM CABLE ASSEMBLIES INTO SEPARATE OR PARTITIONED RACEWAYS, UNLESS OTHERWISE NOTED, IS NOT NECESSARY TO INSURE SEPARATION OF CIRCUITS. PROVIDE WIRE DUCT/RACEWAY WITH ACCESSIBLE REMOVABLE COVERS. LOCATIONS OF BUILDING MATERIAL OPENINGS (I.E. ACCESS PANELS) TO BE CUT IN FIELD ARE TO BE COORDINATED WITH THE DRAWING REQUIREMENTS AND BUILDING STRUCTURE. THOSE THAT ARE NOT INDICATED OR INTERFERE WITH BUILDING ELEMENTS SHALL BE COORDINATED WITH SIEMENS PROJECT MANAGER. ELECTRICAL PULL BOXES AND RACEWAY COVERS SHALL BE INSTALLED IN A MANNER TO ALLOW ACCESSIBILITY FOR INSTALLATION AND MAINTENANCE. CONTRACTORS MUST PROVIDE PULL STRINGS FOR ALL CONDUIT AND WIRE DUCT/RACEWAY. IN-FLOOR TRENCH DUCT AND FLUSH FLOOR BOXES SHALL BE PROVIDED WITH FULLY GASKETED REMOVABLE COVERS. WHEN JUNCTION BOXES AND WIRE DUCT/RACEWAY ARE MOUNTED HIGHER THAN 14 FEET ABOVE FINISHED FLOOR, THE ELECTRICAL CONTRACTOR SHALL PROVIDE TWO ELECTRICIANS TO HELP THE SIEMENS INSTALLERS PULL SIEMENS SUPPLIED CABLES AT CUSTOMER'S EXPENSE. WHEN JUNCTION BOXES AND WIRE DUCT/RACEWAY ARE MOUNTED ABOVE A HARD CEILING (I.E. SHEET ROCK), A 24" x 24" ACCESS PANEL IS REQUIRED AT EACH JUNCTION BOX AND WITHIN 2 FEET OF EACH RACEWAY TRANSITION (SUCH AS A 90 DEGREE ELBOW OR TEE) IN DUCT/RACEWAY. THERE MUST BE FREE AND CLEAR ACCESS TO JUNCTION BOXES AND WIRE DUCT/RACEWAY WHEN ACCESS PANELS ARE LOCATED MORE THAN 3 FEET FROM JUNCTION BOXES AND WIRE DUCT/RACEWAY. THE ELECTRICAL CONTRACTOR SHALL PROVIDE TWO ELECTRICIANS TO HELP SIEMENS INSTALLERS PULL SIEMENS SUPPLIED CABLES AT CUSTOMER'S EXPENSE. 6) WIRING: ALL WIRING INSTALLED SHALL BE 600 VOLT CLASS, STRANDED TYPE THHN/THWN-2, SINGLE CONDUCTOR ANNEALED COPPER FOR A MAXIMUM OPERATING TEMPERATURE OF 90 C (194 F), SIZED AS INDICATED, INSTALLED IN METAL RACEWAYS. THE CUSTOMER/CONTRACTOR SHALL LEAVE A MINIMUM 10 FEET OF WIRE TAILS AT ALL OUTLET POINTS WITH WIRE IDENTIFICATION TAGGED AT BOTH ENDS FOR FINAL CONNECTION BY THE CUSTOMER/ELECTRICAL CONTRACTOR. 7) SHORT CIRCUIT REQUIREMENTS: ALL CIRCUIT BREAKERS SUPPLIED FOR THE SIEMENS EQUIPMENT REQUIREMENTS SHALL BE RATED HIGHER THAN THE SHORT CIRCUIT AVAILABLE AT THE TERMINALS OF THE ELECTRICAL EQUIPMENT AS DETERMINED BY THE ENGINEER OF RECORD, BUT NOT LESS THAN 35,000A RMS SYMMETRICAL AT 480V, 3-PHASE, 60 HERTZ. THE CONTRACTOR SHALL OBTAIN THE CORRECT SHORT CIRCUIT RATING OF ALL THE NEW EQUIPMENT FOR INSTALLATION FROM THE ENGINEER OF RECORD.

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MINIMUM CEILING HEIGHT	RECOMMENDED CEILING HEIGHT
7'-7"	9'-0"

SYM	DATE	DESCRIPTION
△	N/A	TYPICAL REV 0
-ISSUE BLOCK-		

MULTIX IMPACT
REV 0

SIEMENS

MULTIX IMPACT

TYPICAL FINAL DRAWING SET
DIGITAL RADIOGRAPHIC SYSTEM

THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.

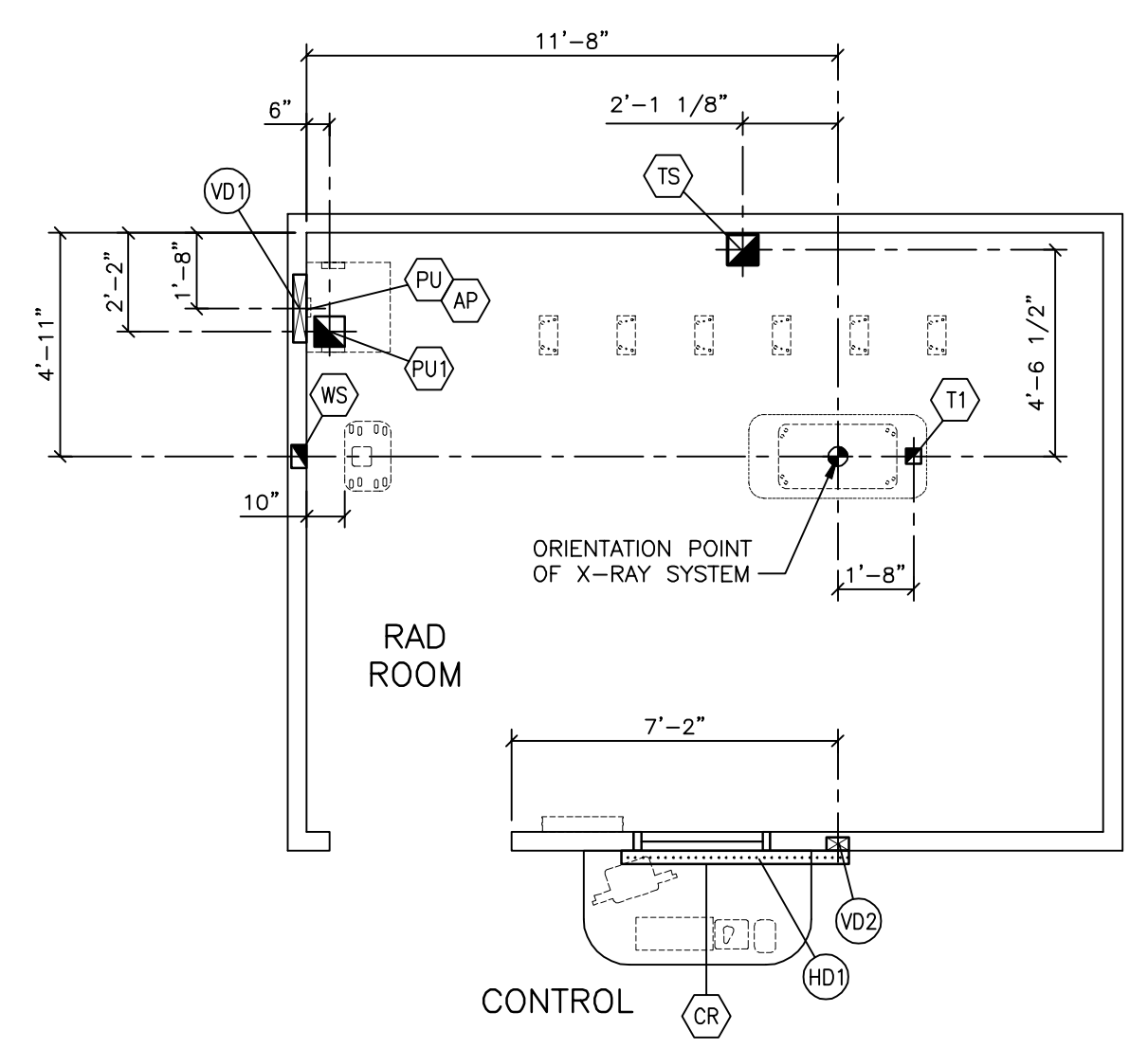
ALL RIGHTS ARE RESERVED.

SCALE: AS NOTED REF. #:

PROJECT #: **19001** SHEET: **E-101**

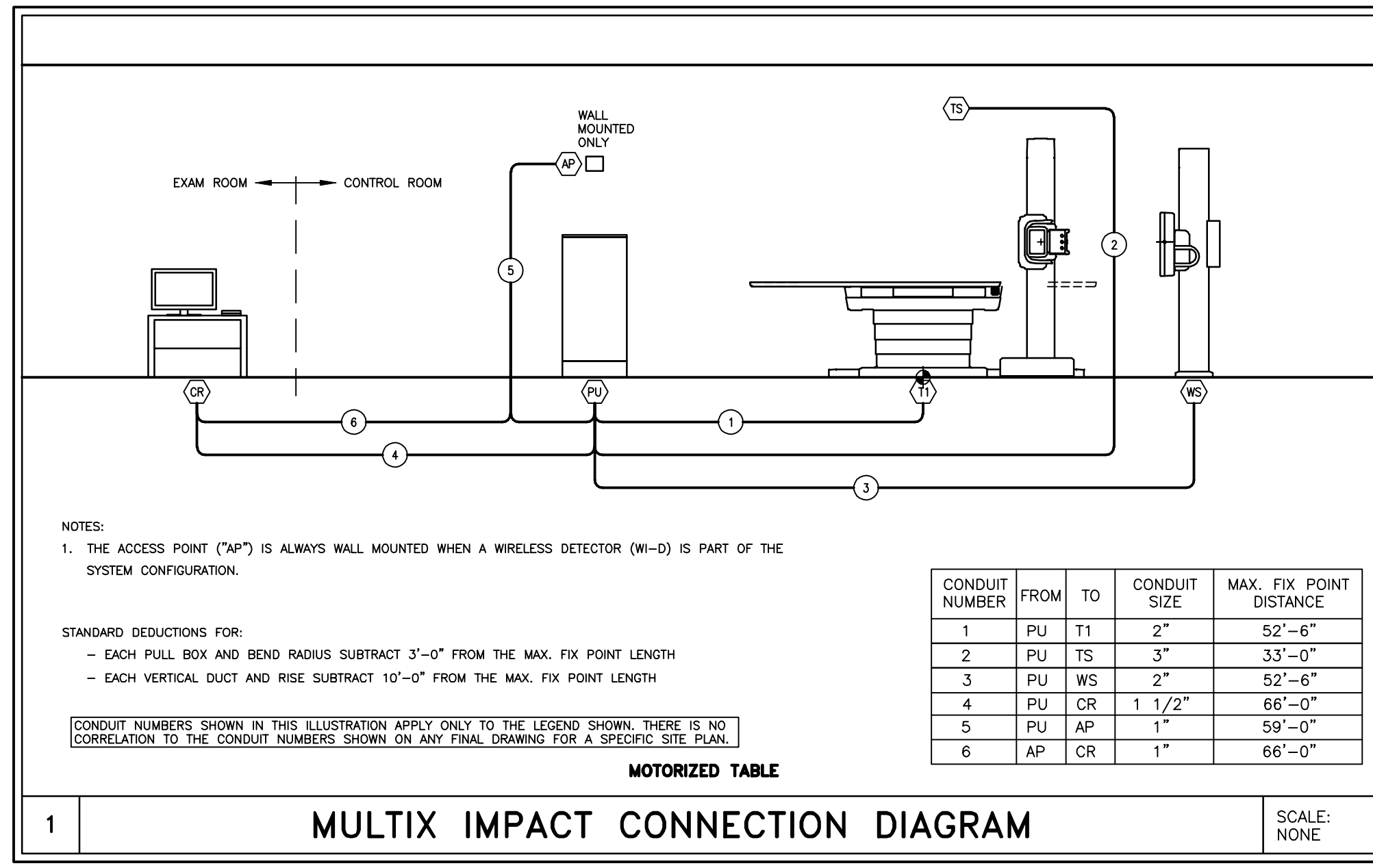
SHEET 4 OF 5 DRAWN BY: J. BALCOM

DATE: 01/25/19



ELECTRICAL DIMENSION PLAN

SCALE: 1/4" = 1'-0"



POLYDOROS RFX 80KW

X-RAY GENERATOR POWER REQUIREMENTS

INCOMING POWER:	480 VOLTS, 3 PHASE, 60Hz
CIRCUIT BREAKER:	80 AMPS.
GENERATOR OUTPUT:	80 kW
ALLOWABLE IMPEDANCE:	≤ 0.16 Ω
MAXIMUM MOMENTARY LOAD:	127 kVA
LINE VOLTAGE VARIATION:	± 10% MAX.
PHASE IMBALANCE:	± 2%
FREQUENCY VARIATION:	± 1 Hz

NOTE:

ALL INCOMING POWER SUPPLIES, FOR THE SIEMENS EQUIPMENT, ARE TO BE DEDICATED (BACK TO SOURCE) ISOLATED AND INSULATED FROM ANY OTHER EQUIPMENT, SUCH AS, ELEVATORS, GENERATORS, HVAC SYSTEMS, ETC.

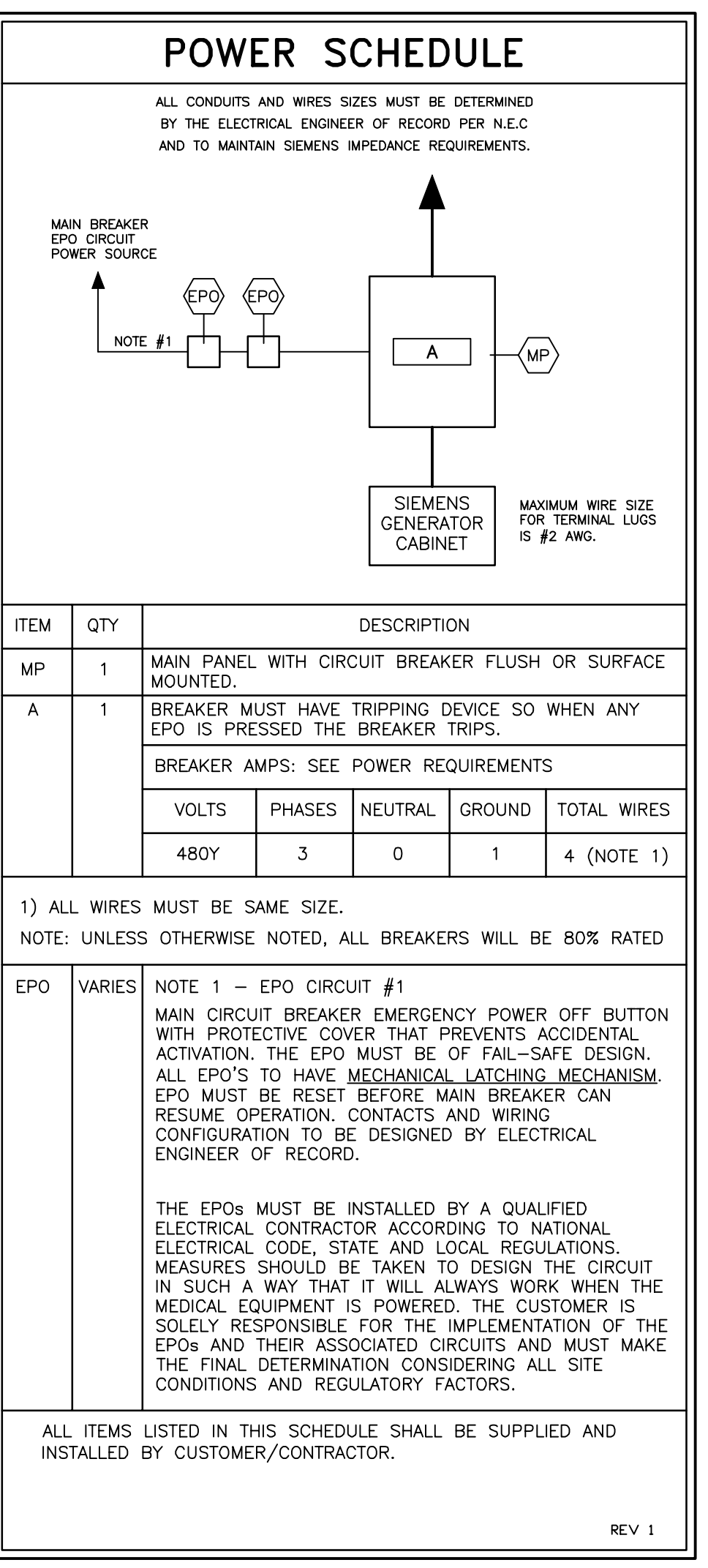
A NEUTRAL CONDUCTOR, IF PRESENT, IS NOT USED FOR THE LINE VOLTAGE CONNECTION TO THE SIEMENS EQUIPMENT. IF THE NEUTRAL CONDUCTOR IS PROVIDED, IT SHOULD NOT BE ELECTRICALLY CONNECTED AT ANY POINT IN THE POWER DISTRIBUTION TO THE SIEMENS EQUIPMENT UNLESS SPECIFICALLY REQUIRED. UNINTENTIONAL NEUTRAL TO GROUND BONDS MAY VIOLATE LOCAL AND NATIONAL ELECTRICAL CODES, AS WELL AS CREATE GROUNDING PROBLEMS.

IF AN ON-SITE TRANSFORMER IS REQUIRED TO OBTAIN XP MODALITY OPERATING VOLTAGE, IT MUST BE OF SUFFICIENT CAPACITY AND CHARACTERISTICS TO MAINTAIN SUPPLY VOLTAGE AND IMPEDANCE REQUIREMENTS (TRANSFORMER & CONDUCTORS).

ATTENTION:

SIEMENS MEDICAL SYSTEMS, INC. RECOMMENDS THAT THE INCOMING POWER LINES BE ANALYZED WITH RESPECT TO TRANSIENT SURGES AND IMPULSES, SAGS, AND OVERVOLTAGES.

REV 0



GROUNDING NOTES

EQUIPMENT GROUND CONDUCTOR TO COMPLY WITH THE FOLLOWING:

- SIZE GROUNDING WIRE TO SIEMENS EQUIPMENT PER POWER SCHEDULE REQUIREMENTS.
- DERIVED FROM THE ELECTRICAL SERVICE, TRANSFORMER OR MAIN DISTRIBUTION PANEL FEEDING THE SIEMENS EQUIPMENT.
- RUN IN THE SAME CONDUIT, TROUGH OR RACEWAY AS THE PHASE CONDUCTORS.
- CONTINUOUS, WITH NO BREAKS OR USE OF CONDUIT, CHASSIS OR EARTH AS THE SOLE GROUNDING PATH.
- BONDED TO CHASSIS AND/OR CONDUIT IN ACCORDANCE WITH THE NEC REQUIREMENTS.
- MINIMIZE CONNECTIONS OR TERMINALS TO ENSURE CONTINUITY OVER THE LIFE OF THE INSTALLATION.
- AS A NORM, THERE SHOULD NOT BE ANY CURRENT PRESENCE ON THE GROUND CONDUCTOR, BUT IT IS ACCEPTABLE TO HAVE $\leq 500mA$ DURING OPERATION OF THE IMAGING EQUIPMENT.

POWER QUALITY

POOR POWER WILL ALTER EQUIPMENT PERFORMANCE

IT IS IN THE CUSTOMER'S INTEREST THAT THE ELECTRICAL CONTRACTOR BE RESPONSIBLE FOR TESTING AND VERIFYING THAT THE EQUIPMENT POWER SUPPLY COMPLIES WITH THE SIEMENS SPECIFICATIONS.

MULTIX IMPACT
REV 0

SIEMENS

MULTIX IMPACT

TYPICAL FINAL DRAWING SET
DIGITAL RADIOGRAPHIC SYSTEM

THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.	PROJECT #: 19001	SHEET: E-102
ALL RIGHTS ARE RESERVED.	SHEET 5 OF 5	DRAWN BY: J. BALCOM
SCALE: AS NOTED	DATE: 01/25/19	

ATTENTION:

- THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.

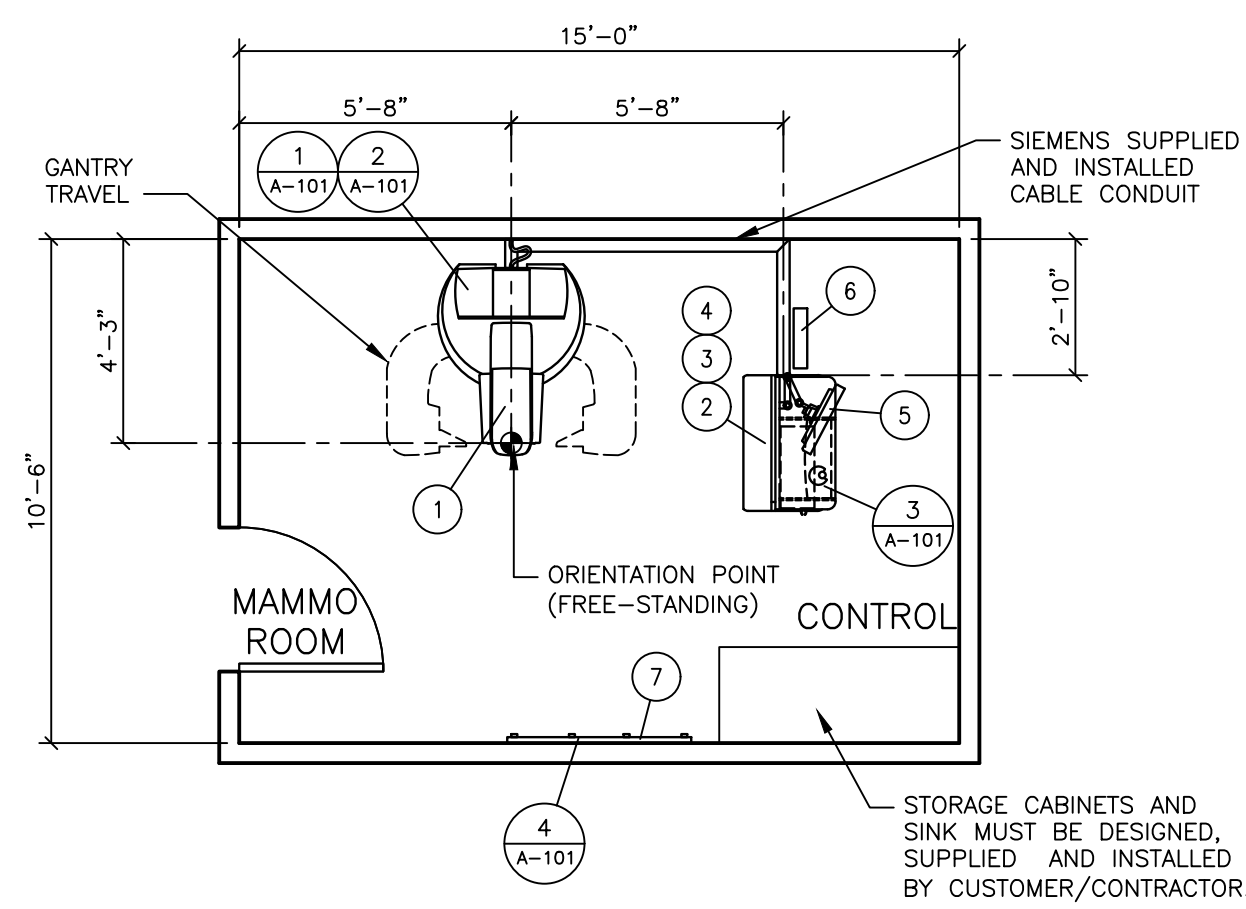
- THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.

- THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

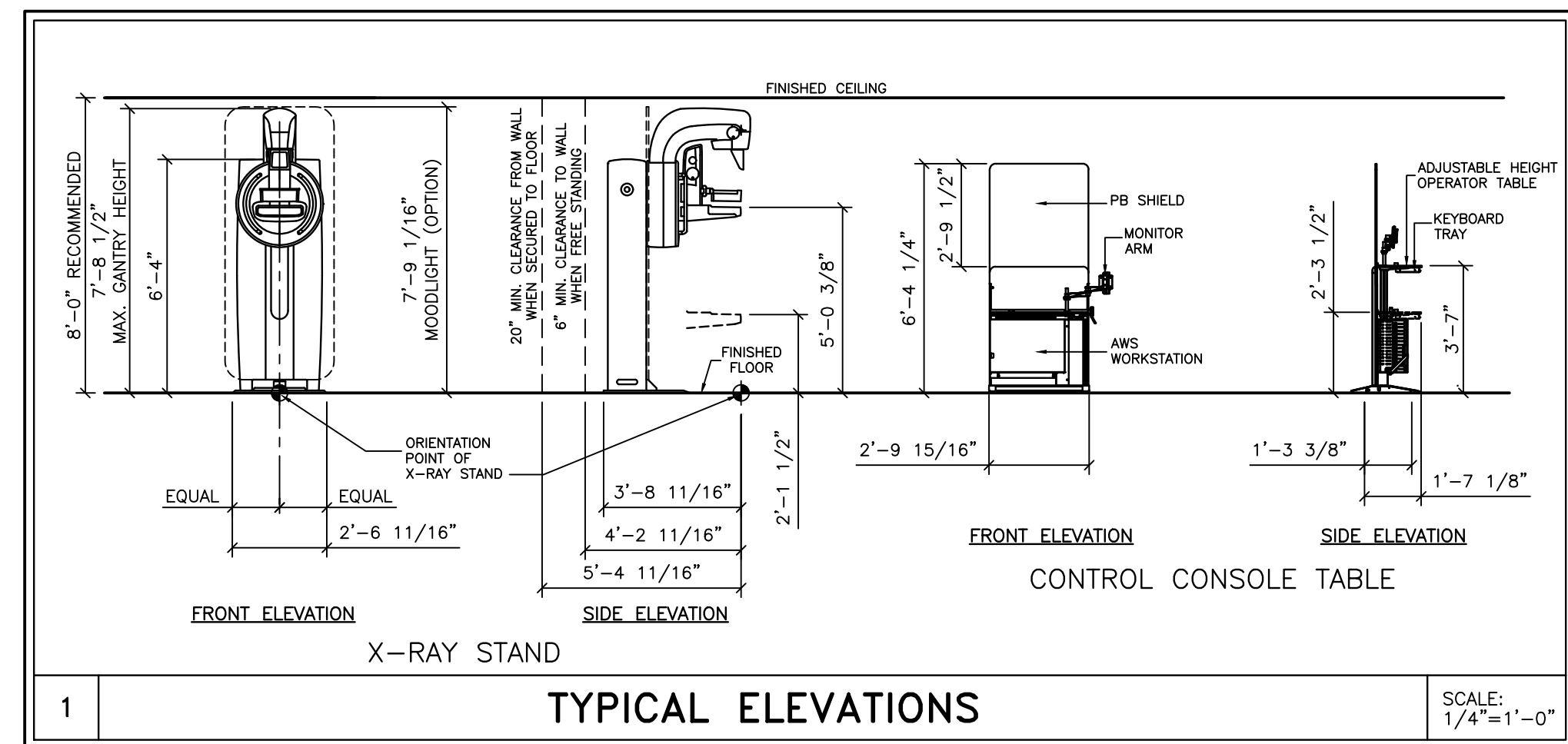
SYM	DATE	DESCRIPTION
△	N/A	TYPICAL REV 0
-ISSUE BLOCK-		



IT IS THE RESPONSIBILITY OF THE CUSTOMER/CONTRACTOR TO PROVIDE A MEANS OF MOUNTING THE UPS OFF OF FINISHED FLOOR FOR DAMAGE PROTECTION AGAINST TIP-OVER, FLUIDS, IMPACT, ETC.

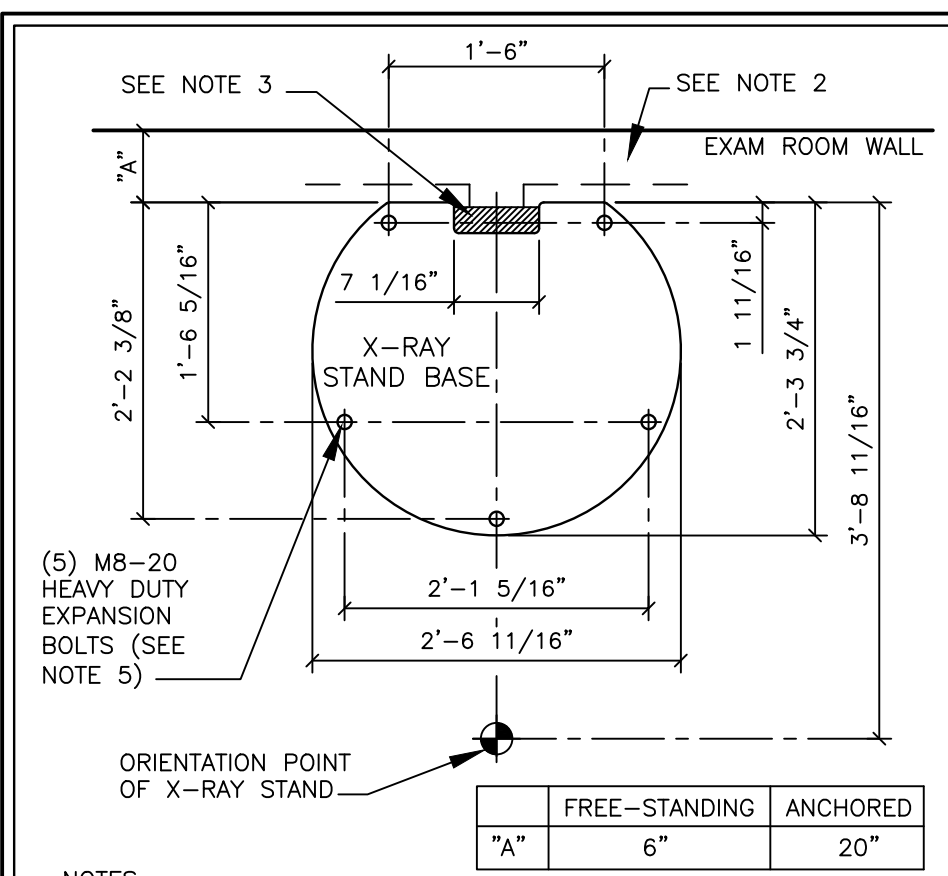
ARCHITECTURAL EQUIPMENT PLAN

SCALE: 1/4" = 1'-0"



TYPICAL ELEVATIONS

SCALE: 1/4" = 1'-0"



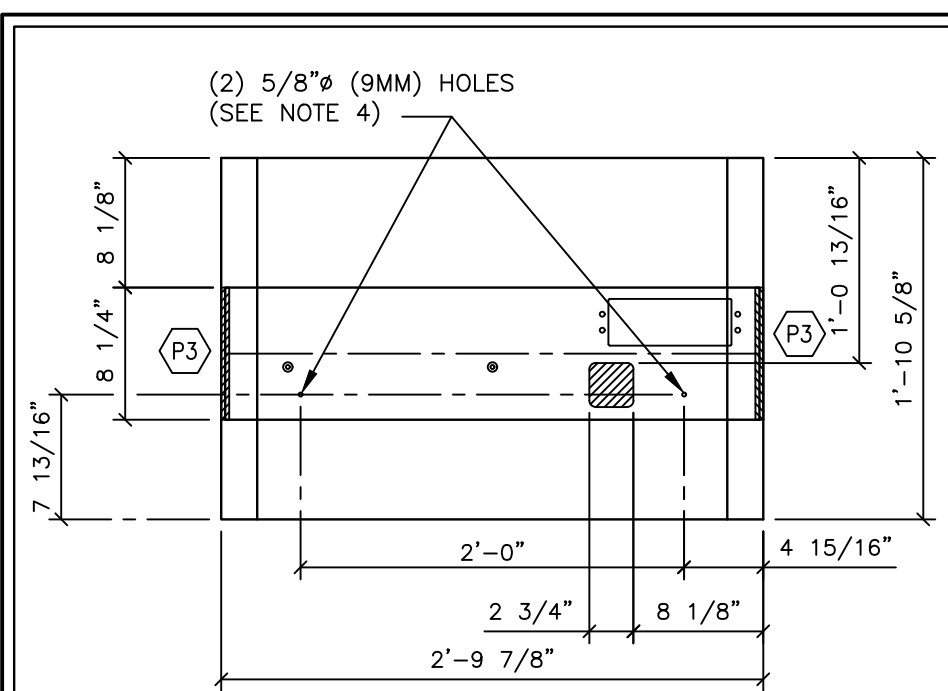
	FREE-STANDING	ANCHORED
"A"	6"	20"

- NOTES:**
- IF INSTALLATION IS ON A SOLID FLOOR, FLOOR COVERING MUST BE CUT OUT AROUND THE STAND BASE.
 - THE PREFERRED METHOD OF CABLE ACCESS IS BY WAY OF THE CABLE CONDUITS PROVIDED WITH THIS SYSTEM AND CONNECTED AS SHOWN.
 - CABLE ACCESS IS POSSIBLE FROM UNDER THE FLOOR THROUGH THE OPENING SHOWN.
 - UNLESS REQUIRED BY LOCAL CODE (I.E. SEISMIC AREAS); THIS SYSTEM DOES NOT REQUIRE FLOOR ANCHORING.
 - MAXIMUM PULL FORCES PER MOUNTING POINT = 337 LBS.

X-RAY STAND

2 STAND BASE DETAIL

SCALE: 3/4" = 1'-0"



- NOTES:**
- IF ANCHORING IS REQUIRED BY LOCAL CODE, THE ENGINEER OF RECORD MUST SPECIFY THE ANCHORS AND THE ANCHORS MUST BE PROVIDED BY THE CUSTOMER/CONTRACTOR. IF THE CONSOLE IS NOT ANCHORED TO THE FLOOR THEN THE BASE PLATE THAT IS PROVIDED WITH THE SYSTEM MUST BE USED.
 - THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO ESTABLISH RADIATION PROTECTION FOR THE SITE.
 - ADDITIONAL CABLE CONDUITS ARE AVAILABLE FOR THE CONNECTION BETWEEN THE X-RAY STAND AND THE CONTROL CONSOLE TABLE.
 - MAXIMUM PULL FORCES PER MOUNTING POINT = 337 LBS.

CONTROL CONSOLE TABLE WITH RADIATION SHIELD

3 FLOOR PLATE DETAIL

SCALE: 1" = 1'-0"

STATE AGENCY REVIEW

PRIOR TO SIEMENS EQUIPMENT INSTALLATION, APPROVAL OF CONSTRUCTION OR STRUCTURAL MODIFICATIONS UTILIZING X-RAY FOR DIAGNOSTIC OR THERAPEUTIC PURPOSES, MUST BE OBTAINED BY THE CUSTOMER FROM THE APPROPRIATE STATE AGENCY, IF APPLICABLE.

EQUIPMENT LEGEND

NO	DESCRIPTION	SMS SYM	WEIGHT (LBS)	BTU/HR TO AIR	DIMENSIONS (INCHES)			REMARKS
					W	D	H	
1	MAMMOMAT REVELATION X-RAY STAND	Ⓜ	772	1,706	30 3/4	46 1/4	92 5/8	FREE STANDING
2	CONTROL CONSOLE TABLE W/ RADIATION SHIELD	Ⓢ	375	1,280	34	19 1/4	76 3/8	FREE STANDING/FLOOR MOUNTED
3	AWS WORKSTATION	ⓐ	57	512	8 1/2	20 1/2	17 5/8	MOUNTED TO CONTROL CONSOLE TABLE
4	CONTROL BOX	Ⓡ	2	34	8	2 1/4	8	ON CONTROL CONSOLE TABLE
5	19" TFT COLOR DISPLAY	Ⓞ	15	171	16	8	16 - 20	MAMMOGRAPHY MONITOR
6	UPS EATON SS 1500 - OPTION	Ⓤ	26	241	3 1/2	15	10	AWS
7	WALL SUPPORT FOR COMPRESSION PADDLES (1) - OPTION	Ⓦ	--	--	46	3	1 1/2	LOCATED BY CUSTOMER

TRANSPORT REQUIREMENTS

LARGEST CRATE	CRATE DIMENSIONS (LxWxH)	WEIGHT
X-RAY STAND	89"x 36 5/8"x 61"	1213 LBS.
RADIATION SHIELD, WORKSTATION & ACCESSORIES	82 5/8"x 31 1/2"x 52"	DEPENDS ON OPTIONS 485-661 LBS.
DETECTOR	35 1/2"x 31 1/2"x 24"	APPROX. 88 LBS.
STAND WITHOUT PACKAGING AND LIFTING CARRIAGE	76"x 30 3/4"x 46 1/4"	--

MAGNETIC FIELD PRECAUTIONS

THE PRESENCE OF MAGNETIC FIELDS IN THE VICINITY OF EQUIPMENT MAY HAVE AN ADVERSE EFFECT. IT IS THE CUSTOMER'S RESPONSIBILITY TO VERIFY THAT THE FOLLOWING VALUES ARE NOT EXCEEDED.

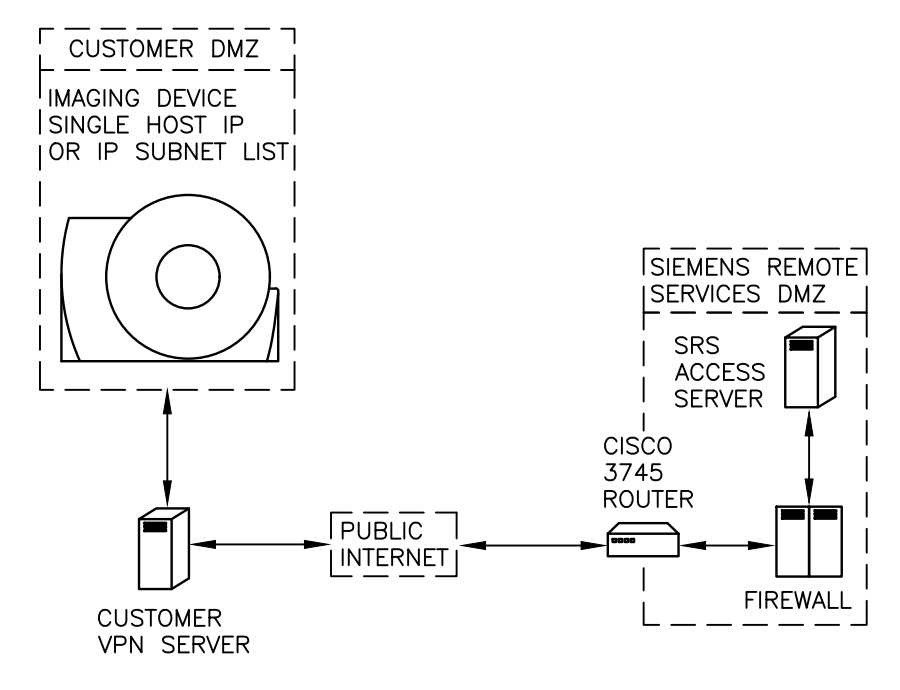
MAXIMUM ALLOWABLE MAGNETIC FIELD	DEVICES
1.0mT (10 GAUSS)	COMPUTERS, MAGNETIC DISK DRIVES, OSCILLOSCOPES, PROCESSORS
0.5mT (5 GAUSS)	X-RAY TUBES, B/W MONITORS, MAGNETIC DATA CARRIERS, DATA STORAGE DRIVES
0.2mT (2 GAUSS)	SIEMENS CT SCANNERS
0.05mT (0.5 GAUSS)	CRT MONITORS, SIEMENS LINEAR ACCELERATORS
0.05mT (0.5 GAUSS)	X-RAY IMAGE INTENSIFIERS, GAMMA CAMERAS, PET/CYCLOTRON, OTHER LINEAR ACCELERATORS

MAGNETIC FIELDS SHOULD BE MEASURED PRIOR TO DELIVERY

SIEMENS REMOTE SERVICE

TO ENSURE THE UPTIME OF YOUR SYSTEM DURING THE WARRANTY PERIOD (AND BEYOND WITH A SERVICE AGREEMENT), SIEMENS REMOTE SERVICES (SRS) REQUIRES REMOTE LOCAL AREA NETWORK ACCESS TO SIEMENS SYSTEMS.

THE PREFERRED CONNECTION METHOD IS (VPN) VIRTUAL PRIVATE NETWORK (WHERE THE CUSTOMER HAS AVAILABLE A VPN CAPABLE FIREWALL OR OTHER VPN APPLIANCE). THIS METHOD PROVIDES THE POSSIBILITY FOR REMOTE SYSTEM DIAGNOSTICS WITHOUT ADDITIONAL HARDWARE. PLEASE CONTACT SIEMENS REMOTE SERVICES (800-888-SIEM) TO DETERMINE IF THIS METHOD IS SUITABLE FOR YOUR SITE.



ITEM DESCRIPTION	WEIGHT (LBS.)
WALL SUPPORT UNIT (EACH)	7
COMPRESSION PADDLE (EACH) (MAX. OF 4 PADDLES PER WALL SUPPORT UNIT)	4.5
(1) WALL SUPPORT + (4) PADDLES	25

- NOTES:**
- WALL SUPPORT UNIT(S) MAY BE MOUNTED HORIZONTALLY OR VERTICALLY.
 - WALL BACKING MUST BE DESIGNED AND INSTALLED BY THE CUSTOMER/CONTRACTOR TO ADEQUATELY CARRY THE WALL SUPPORT UNIT AND (4) COMPRESSION PADDLES.
 - FINAL LOCATION FOR WALL SUPPORT UNIT(S) MUST BE DETERMINED BY CUSTOMER/CONTRACTOR.
 - ALL COMPRESSION PADDLES MUST BE MOUNTED ON THE WALL SUPPORT UNIT(S) BY CUSTOMER/CONTRACTOR.

FOR COMPRESSION PADDLES

4 WALL SUPPORT DETAIL

SCALE: 3/4" = 1'-0"

Project Milestones To Be Completed Before Equipment Delivery	Reference Sheet
Storage area available for storing items during installation	A-101
Lead shielding (walls, doors, windows) complete	A-101
All walls primed and room dust free.	A-101
Climate control functioning 24 hours a day, 7 days a week	A-101
Delivery path verified	A-101
Casework complete in exam and control rooms	A-101
Minimum ceiling height checked	A-101
Room lighting complete and functioning	A-101
Network drop active and IP addresses obtained for Siemens Remote Services (SRS)	A-101
Control area power outlets and network drop installed	E-101
Main Breaker installed per plans	E-101
Contractor supplied electrical cabling / pigtails installed per plans	E-101
EPO's installed and functioning	E-101
X-Ray warning light and wiring installed	E-101

MINIMUM CEILING HEIGHT W/RESTRICTION	CEILING HEIGHT WITHOUT RESTRICTION	RECOMMENDED CEILING HEIGHT
-	8'-0"	8'-0" OR GREATER

ARCHITECTURAL NOTES

- ALL PRELIMINARY EQUIPMENT LAYOUTS SUBMITTED BY SIEMENS HEALTHCARE ARE BASED ON THE RECOMMENDED SPACE NECESSARY FOR THE OPERATION AND SERVICEABILITY OF THE EQUIPMENT BEING PROPOSED. SIEMENS WILL NOT SUBMIT AN EQUIPMENT LAYOUT THAT IS NOT IN THE BEST INTEREST OF BOTH THE CUSTOMER AND SIEMENS. ALL EQUIPMENT LAYOUTS ARE BASED EITHER ON AN ACTUAL SITE SURVEY OR ARCHITECTURAL DRAWINGS SUPPLIED TO SIEMENS. SIEMENS WILL NOT BE RESPONSIBLE FOR ANY ALTERATIONS THAT ENCROACH WITHIN DESIGNATED SAFETY AND SERVICE CLEARANCE ZONES AS INDICATED ON DRAWINGS (I.E. PIPE CHASES, VENTILATION DUCTS, CASEWORK, AND SOFFITS, ETC.) MADE BY THE CUSTOMER OR REQUIRED BY A CUSTOMER'S ARCHITECTURAL FIRM ONCE PRELIMINARY DRAWINGS HAVE BEEN SUBMITTED AND APPROVED. DO NOT ALTER ANY SPECIFICATIONS AND/OR DIMENSIONS WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SIEMENS PROJECT MANAGER.
- SIEMENS HEALTHCARE IS NOT AN ARCHITECTURAL OR ENGINEERING FIRM. DRAWINGS SUPPLIED BY SIEMENS ARE NOT CONSTRUCTION DRAWINGS. THEREFORE, THESE DRAWINGS ARE TO BE USED ONLY FOR INFORMATION TO COMPLEMENT ACTUAL CONSTRUCTION DRAWINGS AVAILABLE FROM A CUSTOMER APPOINTED ARCHITECTURAL REPRESENTATIVE OR A CUSTOMER'S ENGINEERING DESIGN GROUP. THE CUSTOMER'S ARCHITECT AND GENERAL CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE CODES AND PROFESSIONAL DESIGN REQUIREMENTS INCLUDING OSHA/NEC SAFETY CLEARANCE REQUIREMENTS IN ADDITION TO SIEMENS-REQUIRED SAFETY CLEARANCES SHOWN.
- THE CUSTOMER IS RESPONSIBLE FOR ALL ROOM AND AREA PREPARATION COSTS, PROFESSIONAL FEES, PERMITS, REPORTS, AND INSPECTION FEES.
- EQUIPMENT WARRANTIES, EXPRESSED OR IMPLIED ON THE PART OF SIEMENS SHALL BE CONTINGENT UPON STRICT COMPLIANCE WITH THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL AND RECOMMENDATIONS AND REQUIREMENTS CONTAINED IN THESE DRAWINGS, UNLESS SPECIFIED OTHERWISE.
- ALL DIMENSIONS SHOWN ARE FROM FINISHED SURFACES UNLESS SPECIFIED OTHERWISE.
- THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST. ACTUAL PROTECTION REQUIREMENTS SHALL BE SPECIFIED BY A REGISTERED RADIATION PHYSICIST AT CUSTOMER'S ENGAGEMENT AND EXPENSE. RESPONSIBILITY FOR ALL INFORMATION AS TO THE ROOM SIZE, USE, AND NUMBER OF ANTICIPATED EXAMINATIONS TO BE PERFORMED PER TIME PERIOD SHALL BE PROVIDED TO THE PHYSICIST BY THE CUSTOMER. THE CUSTOMER SHALL FURTHER TAKE ALL RESPONSIBILITY IN THE COMMUNICATION AND COORDINATION OF ACTIVITIES OF THE RADIATION PHYSICIST AND THE ARCHITECTURAL REPRESENTATIVE.
- SIEMENS HEALTHCARE SHALL BE RESPONSIBLE FOR SIEMENS EQUIPMENT INSTALLATION, CALIBRATION, CONNECTION AND INSTALLATION OF SIEMENS PROVIDED CABLES. THE CUSTOMER/ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR TERMINATIONS OF CUSTOMER/ELECTRICAL CONTRACTOR-SUPPLIED CABLES TO SIEMENS EQUIPMENT. IN THE EVENT THAT SPECIFIC TRADE RULES OR LICENSE REQUIREMENTS PROHIBIT THIS, THE CUSTOMER SHALL INITIATE THE SERVICES OF APPROVED OTHER CONTRACTORS AND PAY FOR SELECTED, APPROVED PARTIES TO PERFORM THIS WORK WITH SUPERVISION PROVIDED BY SIEMENS. CALIBRATION WHEN ACCOMPLISHED OUTSIDE OF NORMAL INSTALLATION SEQUENCES DUE TO CONTRACTOR OR TRADE RULE ACTIONS OR REQUIREMENTS SHALL BE SUPPORTED BY, CHARGED TO, AND ACCEPTED BY THE CUSTOMER AS AN ADDITIONAL INSTALLATION EXPENSE.
- THE CUSTOMER SHALL COORDINATE WITH SIEMENS PROJECT MANAGER THE LOCATIONS AND TRAVEL OF ALL ANCILLARY EQUIPMENT TO BE CEILING OR WALL MOUNTED (I.E.: O.R. LIGHTS, MEDICAL GAS COLUMNS, PHYSIOLOGICAL MONITORING INJECTORS, CRT PLATFORMS, SPRINKLER HEADS, SMOKE DETECTORS, ELECTRICAL OUTLETS, HVAC GRILLES, SPEAKERS, AND GENERAL ROOM LIGHTING, ETC.).
- THE GENERAL CONTRACTOR/CUSTOMER SHALL BE RESPONSIBLE FOR ALL FINAL PAINT, TOUCH-UP AND ANY COSMETIC OR TRIM WORK WHICH NEEDS TO BE OR IS REQUIRED TO BE COMPLETED AFTER THE INSTALLATION OF THE SIEMENS EQUIPMENT AND ANY ASSOCIATED SUPPORT APPARATUS.

ENVIRONMENTAL CONDITIONS

	OPERATION	TRANSPORT/STORAGE
INSPIRATION PERMISSIBLE AMBIENT TEMPERATURE	SYSTEM 68°F TO 86°F DETECTOR 68°F TO 98.6°F	-4°F TO 158°F 53.6°F TO 98.6°F
REVELATION PERMISSIBLE AMBIENT TEMPERATURE	SYSTEM 68°F TO 86°F DETECTOR 53.6°F TO 98.6°F	-4°F TO 158°F 53.6°F TO 98.6°F
RELATIVE HUMIDITY (NON-CONDENSING)	SYSTEM 30% TO 75% DETECTOR	10% TO 90% -90%

NOTE: THE DETECTOR IS CALIBRATED MANUALLY IN PERIODIC INTERVALS. BASED ON THIS CALIBRATION, A WORKING RANGE OF ±12.6°F IS AVAILABLE. OPTIMUM IMAGE QUALITY OUTSIDE OF THIS WORKING RANGE WITHOUT RE-CALIBRATION IS NOT ENSURED. TO ENSURE CONSTANT AND OPTIMAL IMAGE QUALITY, ENVIRONMENTAL CONDITIONS MUST BE MAINTAINED ABSOLUTELY. AVOID DIRECT SUNLIGHT!

RESOURCE LIST (SMS USE ONLY)

DESIGNATION	PG NUMBER	DATE
MAMMOMAT SYSTEMS	XPW7-000.891.01.01.02	11.17

ATTENTION:

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- THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.

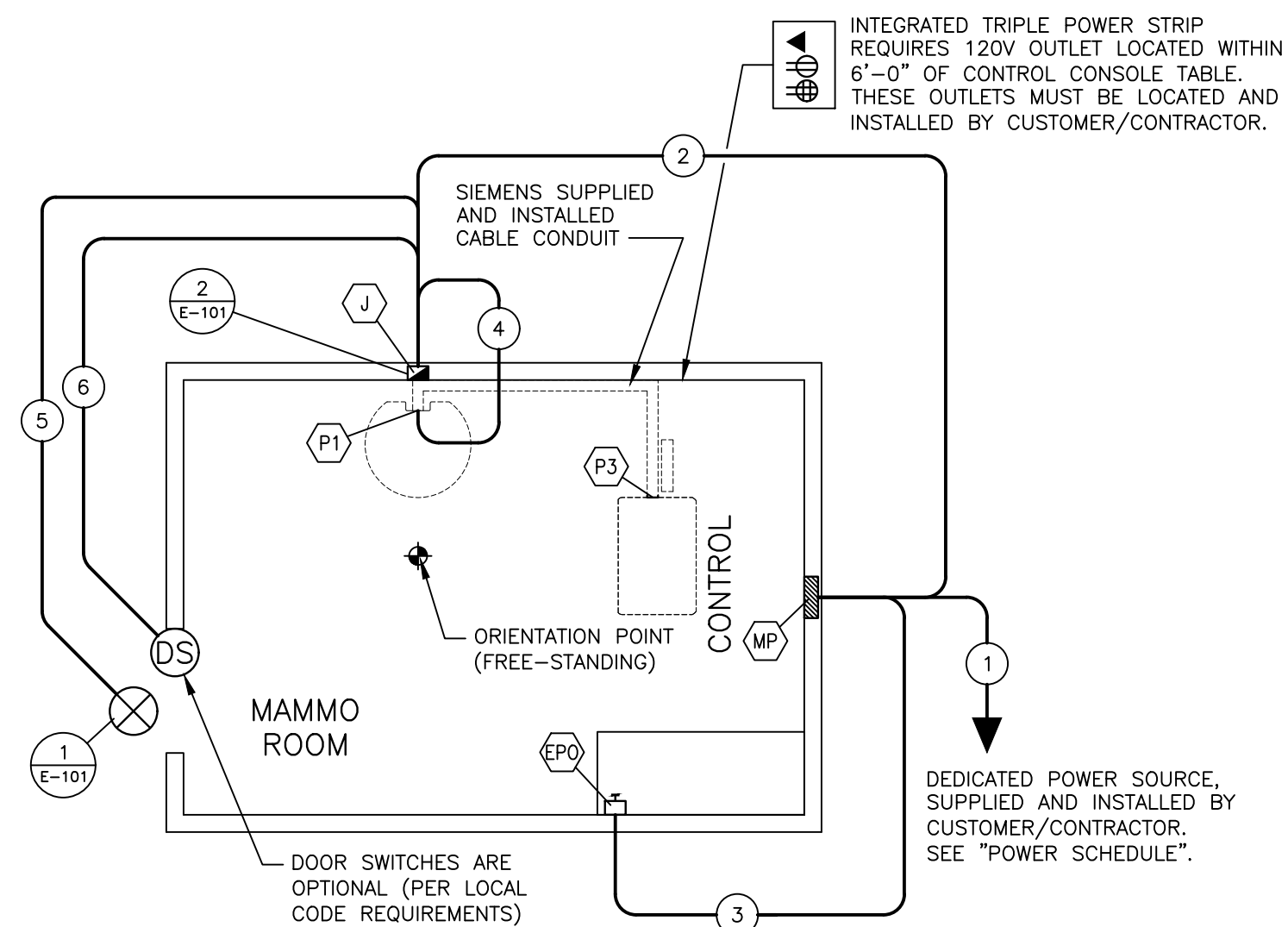
- THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

SYM	DATE	DESCRIPTION
△	N/A	TYPICAL REV 0
-ISSUE BLOCK-		

SIEMENS MAMMOMAT REVELATION
TYPICAL FINAL DRAWING SET

THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.	PROJECT #: 18072	SHEET: A-101
ALL RIGHTS ARE RESERVED.	SHEET 1 OF 3	DRAWN BY: L. BACH
SCALE: AS NOTED	DATE:	REF. #:

INSPIRATION REV. 0



THE EXACT LOCATIONS FOR THE CIRCUIT BREAKER ("MP") AND EMERGENCY POWER OFF BUTTON(S) ("EPO") MUST BE DETERMINED BY CUSTOMER/CONTRACTOR.

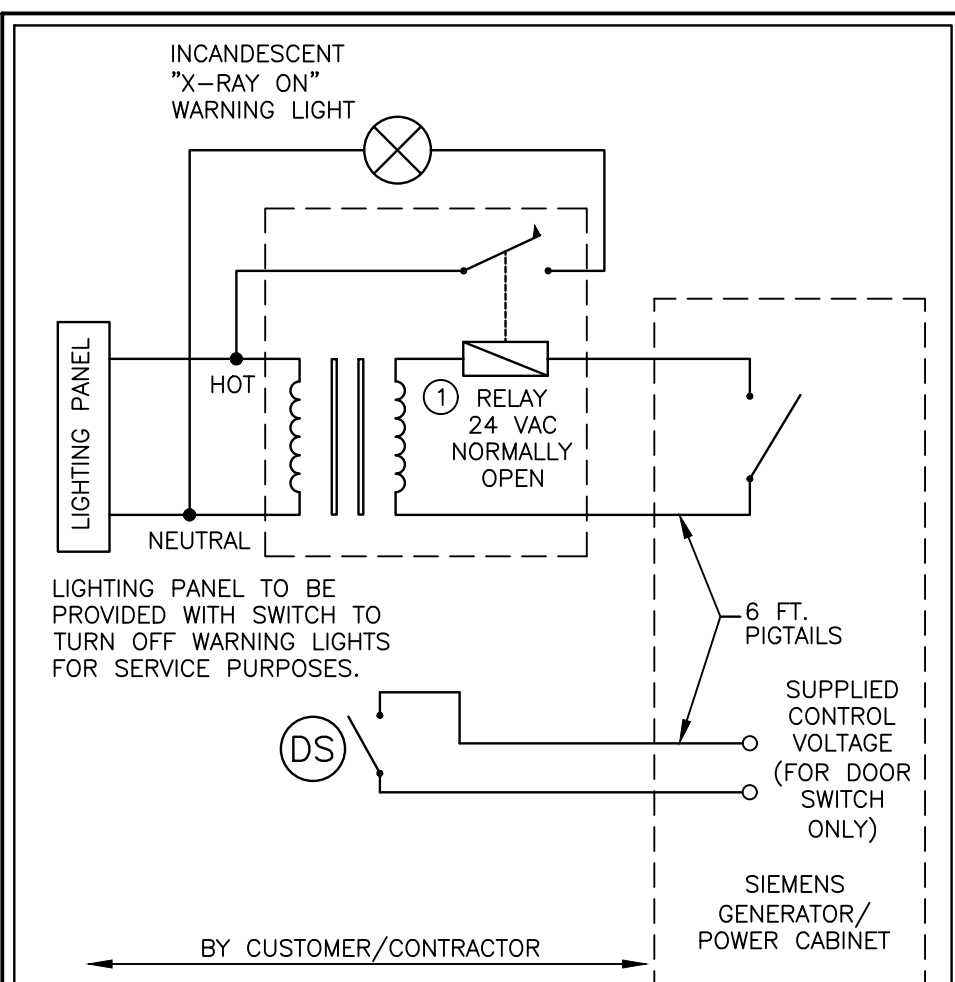
ELECTRICAL RACEWAY PLAN

SCALE: 1/4" = 1'-0"

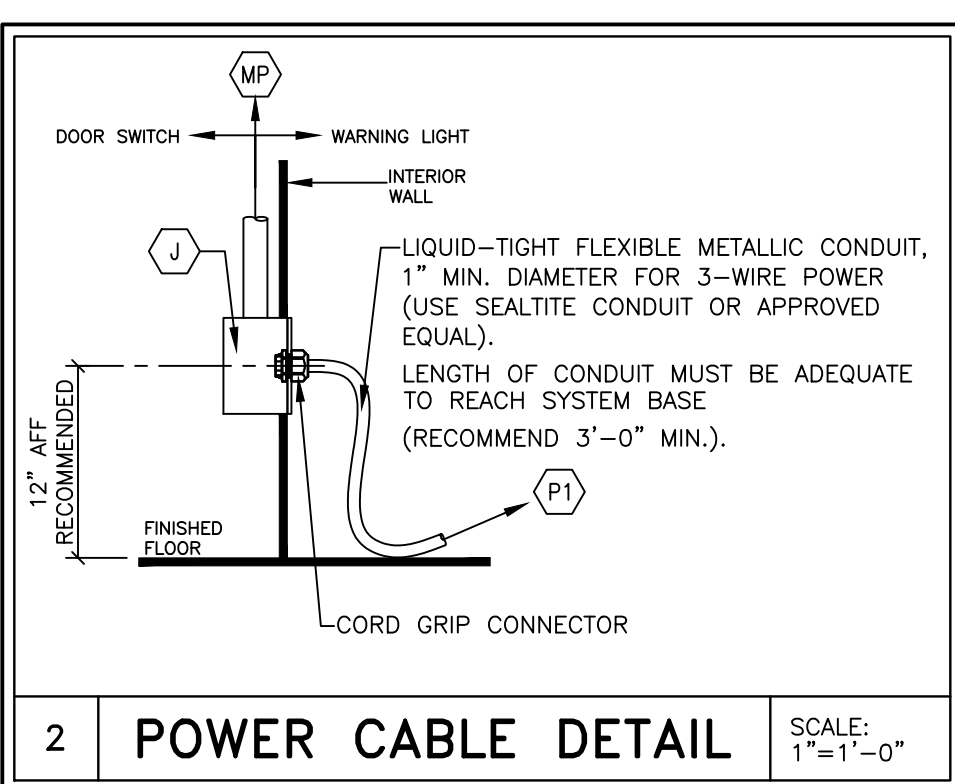
X-RAY GENERATOR POWER REQUIREMENTS	
SUPPLY VOLTAGE:	208/220/240V, SINGLE PHASE, 60 Hz
CIRCUIT BREAKER:	40 A
GENERATOR OUTPUT:	0.5 kVA
ALLOWABLE SUPPLY IMPEDANCE:	208V ≤ 0.25 OHMS 220V ≤ 0.28 OHMS 240V ≤ 0.35 OHMS
MAX. MOMENTARY LOAD:	7.5 kVA
LINE VOLTAGE VARIATION:	± 10% MAX.
FREQUENCY VARIATION:	± 1 Hz
VOLTAGE SURGES:	10% MAX. ABOVE LINE VOLTAGE
INSTANTANEOUS VARIATION:	20 msec MAX. DURATION
VOLTAGE SAGS:	10% MAX. BELOW LINE VOLTAGE 20 msec MAX. DURATION

NOTE:
ALL INCOMING POWER SUPPLIES, FOR THE SIEMENS EQUIPMENT, ARE TO BE DEDICATED (BACK TO SOURCE) ISOLATED AND INSULATED FROM ANY OTHER EQUIPMENT SUCH AS: ELEVATORS, GENERATORS, HVAC SYSTEMS, ETC.
A NEUTRAL CONDUCTOR IS NOT USED FOR THE LINE VOLTAGE CONNECTION TO THE SIEMENS EQUIPMENT. HOWEVER, THE NEUTRAL IS REQUIRED FOR THE INPUT FEED OF THE UPS AND BREAKER SUPPLY TO SIEMENS EQUIPMENT. THE UPS USES THE NEUTRAL AS A VOLTAGE REFERENCE POINT.

ATTENTION:
SIEMENS MEDICAL SYSTEMS, INC. RECOMMENDS THAT THE INCOMING POWER LINES BE ANALYZED WITH RESPECT TO TRANSIENT SURGES AND IMPULSES, SAGS, AND OVERVOLTAGES.

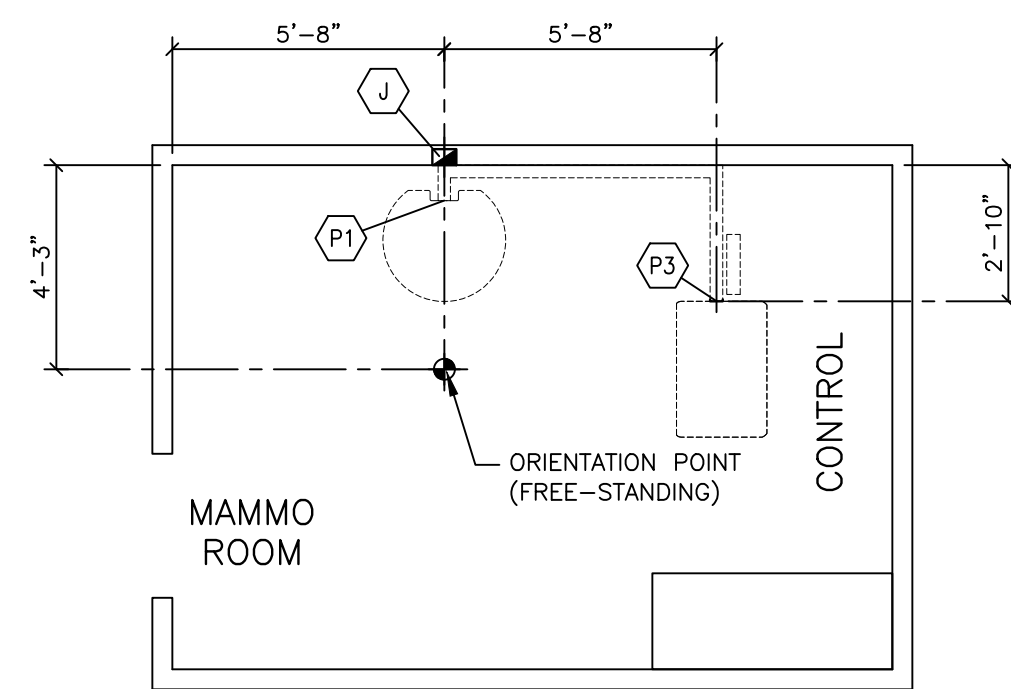


AUXILIARY WIRING		SCALE:
1	NONE	NONE



ELECTRICAL DIMENSION PLAN

SCALE: 1/4" = 1'-0"



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MINIMUM CEILING HEIGHT W/RESTRICTION	CEILING HEIGHT WITHOUT RESTRICTION	RECOMMENDED CEILING HEIGHT
-	8'-0"	8'-0" OR GREATER

- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.
- THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

ELECTRICAL LEGEND

SYM	SIZE	DESCRIPTION	REMARKS
⊕	---	EMERGENCY POWER OFF BUTTON, EXACT LOCATIONS TO BE DETERMINED BY CUSTOMER/CONTRACTOR.	SEE POWER SCHEDULE
Ⓜ	8"x8"x4"	PULL BOX MOUNTED FLUSH WITH FINISHED WALL CENTERLINE 12" ABOVE THE FINISHED FLOOR, WITH REMOVABLE COVER.	
Ⓜ	SINGLE PHASE	MAIN PANEL WITH CIRCUIT BREAKER, EXACT LOCATION DETERMINED BY CUSTOMER/CONTRACTOR.	SEE POWER SCHEDULE
Ⓜ	5 1/2"x3"	OPENING AT THE REAR OF THE X-RAY STAND BASE, AS SHOWN.	X-RAY STAND/GENERATOR
Ⓜ	3"x1 1/2"	OPENING AT LEFT/RIGHT SIDE OF CONTROL CONSOLE TABLE.	CONTROL CONSOLE TABLE
Ⓜ	---	NOTES: 1. OPTIONAL WARNING LIGHTS AND DOOR SWITCHES ARE SUPPLIED AND INSTALLED BY THE CUSTOMER/CONTRACTOR. SEE "AUXILIARY WIRING" DETAIL.	
①	---	CONDUIT FROM POWER SOURCE TO "MP" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
②	---	CONDUIT FROM "MP" TO "J", SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
③	---	CONDUIT FROM "MP" TO "EPO", SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
④	---	FLEXIBLE CONDUIT FROM "J" TO "P1" (POWER TO GENERATOR), SIZED BY ELECTRICAL ENGINEER OF RECORD.	
⑤	---	CONDUIT FROM "J" VIA RELAY CIRCUITRY TO WARNING LIGHT (OPTIONAL), SIZED BY ELECTRICAL ENGINEER OF RECORD.	
⑥	---	CONDUIT FROM "J" TO DOOR SWITCH (OPTIONAL), SIZED BY ELECTRICAL ENGINEER OF RECORD.	

CONTRACTOR SUPPLIED CABLES

FROM	VIA	TO	DESCRIPTION	REMARKS
POWER SOURCE	1	MP	DETERMINED BY ELECTRICAL CONTRACTOR.	SEE POWER SCHEDULE
MP	2	J	DETERMINED BY ELECTRICAL CONTRACTOR.	SEE POWER REQ/SCHEDULE
MP	3	EPO	DETERMINED BY ELECTRICAL CONTRACTOR.	
J	4	P1	SEALTITE YF-706 OR APPROVED EQUAL. THIS CONDUIT MUST BE INSTALLED AT TIME OF EQUIPMENT INSTALLATION IN COORDINATION WITH SIEMENS PROJECT MANAGER.	SEE POWER CABLE DETAIL
J	5	WL	DETERMINED BY ELECTRICAL CONTRACTOR.	SEE AUXILIARY WIRING
J	6	DS	DETERMINED BY ELECTRICAL CONTRACTOR.	SEE AUXILIARY WIRING
P1	CABLE CONDUIT	P3	DETERMINED BY ELECTRICAL CONTRACTOR. (SEE NOTE 2)	POTENTIAL EQUALIZATION CABLE

SIEMENS SUPPLIED CABLES

FROM	VIA	TO	DESCRIPTION	REMARKS
P1	CABLE CONDUIT	P3	CONTROL CONSOLE CABLE	MAXIMUM LENGTH 21 FT (SEE NOTE 1 BELOW)
P1	CABLE CONDUIT	P3	FIBER OPTIC, ETHERNET CABLE (FROM X-RAY STAND)	MAXIMUM LENGTH 23 FT (SEE NOTE 1 BELOW)
-	-	-	NOTES: 1. SIEMENS CABLE CONDUITS: - THE SYSTEM SHIPMENT INCLUDES TWO PIECES 6'-6" LONG (13'-0"). - ADDITIONAL CONDUIT MAY BE ORDERED, AS REQUIRED, COORDINATE WITH SIEMENS PROJECT MANAGER. 2. POTENTIAL EQUALIZATION CABLE IS REQUIRED WHEN THE CONTROL CONSOLE AND/OR AWS PC ARE LOCATED LESS THAN 5'-0" FROM THE X-RAY STAND. SUPPLIED BY CUSTOMER/CONTRACTOR. COORDINATE WITH SIEMENS PROJECT MANAGER.	

POWER SCHEDULE

ALL CONDUITS AND WIRES SIZES MUST BE DETERMINED BY THE ELECTRICAL ENGINEER OF RECORD PER N.E.C. AND TO MAINTAIN SIEMENS IMPEDANCE REQUIREMENTS.

ITEM	QTY	DESCRIPTION
MP	1	MAIN PANEL WITH CIRCUIT BREAKER FLUSH OR SURFACE MOUNTED. BREAKER MUST HAVE TRIPPING DEVICE SO WHEN ANY EPO IS PRESSED THE BREAKER TRIPS. BREAKER AMPS: 40 VOLTS: 208-220-240 (L1-L2) PHASES: 2 NEUTRAL: 0 GROUND: 1 TOTAL WIRES: 3 (NOTE 1)
EPO	VARIES	NOTE 1 - EPO CIRCUIT #1 MAIN CIRCUIT BREAKER EMERGENCY POWER OFF BUTTON WITH PROTECTIVE COVER THAT PREVENTS ACCIDENTAL ACTIVATION. THE EPO MUST BE OF FAIL-SAFE DESIGN. ALL EPOs TO HAVE MECHANICAL LATCHING MECHANISM. EPO MUST BE RESET BEFORE MAIN BREAKER CAN RESUME OPERATION. CONTACTS AND WIRING CONFIGURATION TO BE DESIGNED BY ELECTRICAL ENGINEER OF RECORD. THE EPOs MUST BE INSTALLED BY A QUALIFIED ELECTRICAL CONTRACTOR ACCORDING TO NATIONAL ELECTRICAL CODE, STATE AND LOCAL REGULATIONS. MEASURES SHOULD BE TAKEN TO DESIGN THE CIRCUIT IN SUCH A WAY THAT IT WILL ALWAYS WORK WHEN THE MEDICAL EQUIPMENT IS POWERED. THE CUSTOMER IS SOLELY RESPONSIBLE FOR THE IMPLEMENTATION OF THE EPOs AND THEIR ASSOCIATED CIRCUITS AND MUST MAKE THE FINAL DETERMINATION CONSIDERING ALL SITE CONDITIONS AND REGULATORY FACTORS.

1) ALL WIRES MUST BE SAME SIZE.
NOTE: UNLESS OTHERWISE NOTED, ALL BREAKERS WILL BE 80% RATED

ALL ITEMS LISTED IN THIS SCHEDULE SHALL BE SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR.

REV 2

SYMBOLS

ALL MAY NOT APPLY

Ⓜ	MAIN PANEL OR ENCLOSURE BY CUSTOMER/CONTRACTOR
Ⓜ	OPENING IN RACEWAY OR TRENCHDUCT
Ⓜ	PULLBOX IN (FLOOR/WALL/CEILING)
Ⓜ	OPENING IN ACCESS FLOORING
Ⓜ	WARNING LIGHT (X-RAY ON)
Ⓜ	DOOR SAFETY SWITCH
Ⓜ	(EPO) EMERGENCY POWER OFF BUTTON
Ⓜ	TRENCHDUCT
Ⓜ	CEILING DUCT
Ⓜ	UNDER FLOOR DUCT
Ⓜ	SURFACE DUCT
Ⓜ	VERTICAL DUCT
Ⓜ	ETHERNET CONNECTION TO CUSTOMER'S INFORMATION SYSTEMS NETWORK (VERIFY WITH SMS PROJECT MANAGER).
Ⓜ	110 VOLT, 20 AMP, HOSPITAL GRADE DUPLEX OUTLET UNLESS OTHERWISE STATED.
Ⓜ	110 VOLT, 20 AMP, HOSPITAL GRADE QUAD OUTLET
Ⓜ	SPECIAL PURPOSE RECEPTACLE

INSPIRATION REV 0

SIEMENS

MAMMOMAT REVELATION

TYPICAL FINAL DRAWING SET

THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.	PROJECT #: 18072	SHEET: E-101
ALL RIGHTS ARE RESERVED.	SHEET 2 OF 3	DRAWN BY: L. BACH
SCALE: AS NOTED	REF. #:	DATE:

SYM	DATE	DESCRIPTION
△	N/A	TYPICAL REV 0
-ISSUE BLOCK-		

HOSPITAL: Valencia Hospital

PROJECT:

Cost Category GROUP: OPERATIONS & ADMIN. SUPPORT

2

Medium

Department: ADMINISTRATION/MED. RECORDS

Room#	Space Name	# Spaces	Area/ Space	Total Sq Feet
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Original Program	Disparity
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ADMINISTRATION:

ADM. SEC/WAITING (INCLUDES NURSING ADM)	1	80	80
COAT CLOSET	0	10	0
COPY/ FILE/ FAX ROOM	1	80	80
BOARD ROOM (WITH KITCHENETTE)	0	800	0
CONF ROOM/MULTIPURPOSE	1	160	160
ADMINISTRATOR (CEO)	1	120	120
ADMINISTRATOR (CFO, CNO, ANCILL.)	2	100	200
CHAPLINS OFFICE	0	100	0
STORAGE/ WORK AREA	1	40	40
RESTROOM (Common)	0	60	0
ADMIN STORAGE	0	25	0

DOCTORS' LOUNGE:

TOILET	1	60	60
DOCTOR'S LOUNGE/ LIBRARY/DICT	1	150	150

Not required but suggested
Not required but suggested
Digital medical record

HEALTH INFORMATION MANAGEMENT /MEDICAL RECORDS:

OFFICE, DIRECTOR	1	100	100
DICTION CUBICLE	1	30	30
DISCHARGE PLANNING ANALYST	0	64	0
RECORDS REVIEW AREA (digital)	1	50	50
RECORDS PURGING AREA (digital)	1	50	50
CLERK/WAITING	0	60	0
CODERS	0	42	0
OPEN OFFICES	0	50	0
SECURED STORAGE	0	40	0
TRANSCRIPTION STATION	1	50	50
PRINTER/ COPIER	1	20	20
FILES, HIGH DENSITY	0	150	0

Assumed off site svc

Digital medical record

BUSINESS OFFICE:

APC COORDINATOR	1	80	80
COPY/ FILE/ FAX ROOM (SHARED W ADMIN)	0	60	0
SHARED OFFICE (CLERK/WFile)	1	80	80
ACCOUNTING CLERKS-	0	64	0
BUSINESS OFFICE SUPERVISOR	1	80	80
DISCHARGE COORDINATOR	0	120	0
OPEN WORK STATIONS	0	60	0
FILE SPACE	0	10	0
MEDICAID CLERK	0	100	0
STORAGE	1	40	40
BUSINESS DIRECTOR	0	100	0
CREDIT MANAGER	0	80	0

QUALITY ASSURANCE/ RISK MAN:

QA DIRECTOR (IN ADMIN)	1	80	80
COPIER WORK AREA	0	40	0
MEDICAL STAFF SECY (IN ADMIN)	0	100	0
UTILIZATION REVIEW (SHARED W/ QA)	0	120	0

MISCELLANEOUS:

Subtotal			1550
Corridor/Wall	0.3		465
Mechanical/Electrical	0.08		124
Totals			2139

HOSPITAL: Valencia Hospital
PROJECT:

Cost Category **GROUP: DIAGNOSTICS & THERAPEUTICS**
 2
 Medium Department: LOBBY & ADMITTING

Room#	Space Name	# Spaces	Area/ Space	Total Sq Feet
LOBBY:				
	VESTIBULE, MAIN ENTRANCE	1	60	60
	WHEELCHAIR STORAGE	1	20	20
	WAITING AREA	1	200	200
	RECEPTION/INFORMATION STATION	1	60	60
	MEN'S PUBLIC TOILET	1	60	60
	WOMEN'S PUBLIC TOILET	1	60	60
	PUBLIC TELEPHONES	0	15	0
	GIFT SHOP (AT DIETARY)	0	100	0
	VOLUNTEERS' STORAGE (SHARED W/ GIFT SHOP)	0	60	0
	CHAPEL	0	120	0
ADMITTING: (ADJ. TO BUSINESS OFFICE)				
	ADMITTING STATIONS	1	60	60
	ADMITTING WORK AREA	1	60	60
	TOILET	0	60	0
	PBX	0	80	0
	CASHIER	0	80	0
	Subtotal			<u>580</u>
	Corridor/Wall	0.2		116
	Mechanical/Electrical	0.08		<u>46</u>
	Totals			<u>742</u>

Original Program	Disparity
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In ED

HOSPITAL: Valencia Hospital
PROJECT:

Cost Category **GROUP: OPERATIONS & ADMIN. SUPPORT**
 2
 Medium Department: HR/IS/EDUCATION

Room#	Space Name	# Spaces	Area/ Space	Total Sq Feet
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Original Program	Disparity
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HUMAN RESOURCES:

CLERK (W/WAITING/STG) IN ADMIN	0	160	0
PERSONNEL DIRECTOR	0	100	0
LATERAL FILES	0	35	0

INFORMATION SYSTEMS(Next to B.O):

SUPERVISOR OFFICE	1	80	80
COMPUTER ROOM	1	120	120
COMPUTER WORK AREA (2 TECHS)	0	80	0
PRINTER ALCOVE	0	40	0

EDUCATION:

EDUCATION ROOM	0	220	0
EDUCATION COORDINATORS	0	80	0
STORAGE	0	40	0

MISCELLANEOUS:

INSERVICE RM	0	400	0
AUDITORIUM STG	0	80	0
PUBLIC RELATIONS / MARKETING (IN ADMIN)	0	100	0
LIFELINE COORD.(IN ADMIN)	0	100	0

			200
Subtotal	0.3		60
Corridor/Wall	0.08		16
Mechanical/Electrical			276
	Totals		

HOSPITAL: Valencia Hospital
PROJECT:

Cost Category GROUP: SURGICAL SERVICES
 2
 Medium Department: SAME DAY PROC. & P.A.C.U.

Room#	Space Name	# Spaces	Area/ Space	Total Sq Feet
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Original Program	Disparity
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GENERAL:

SAME DAY SERVICES:

STAGING/PREP CUBICLE/PHASE II RECOVER`	0	100	0	
STAGING/ PREP ROOM W/ HARD WALLS	8	122	976	
STAGING/ PREP ROOM (PRIVATE)	0	140	0	
TOILET, PATIENT	4	52	208	
NURSES CHARTING/RECEPTION	1	100	100	Shared w/Pacu
ALCOVE, WHEELCHAIR/STRETCHER	1	20	20	
CRASH CART	0	10	0	
CLEAN UTILITY	1	120	120	Shared w/Pacu
SOILED UTILITY	1	100	100	Shared w/Pacu
MEDICATION STATION	1	80	80	Shared w/Pacu
NOURISHMENT	1	40	40	Shared w/Pacu
TOILET, STAFF	1	52	52	
BREAK ROOM	1	120	120	
CONSULT RM	0	100	0	Shared in Surg
JANITOR CLOSET	1	20	20	Shared w/Pacu
WAITING	0	180	0	In public

SAME DAY/ RECOVERY SUPPORT:

NURSES CHARTING	0	120	0
ALCOVE, WHEELCHAIR/STRETCHER	0	20	0
CRASH CART	1	10	10
CLEAN UTILITY	0	70	0
SOILED UTILITY	0	70	0
MEDICATION ROOM	0	80	0
NOURISHMENT	0	40	0
TOILET, STAFF	0	52	0
STORAGE, EQUIPMENT	1	60	60
JANITOR CLOSET	0	20	0

RECOVERY:

RECOVERY POSITION (11X13)	6	100	600	
PATIENT ROOM (ISOLATION), RECOVERY	0	130	0	
TOILET, PATIENT	0	50	0	Shared w Preop

Subtotal			2506
Corridor/Wall	0.32		802
Mechanical/Electrical	0.08		200
Totals			3508

HOSPITAL: Valencia Hospital
PROJECT:

Cost Category **GROUP: SURGICAL SERVICES**
 2
 Medium Department: SURGERY/SPEC. PROCEDURE

Room#	Space Name	# Spaces	Area/ Space	Total Sq Feet	Original Program	Disparity
GENERAL:						
	FAMILY WAITING (ADJ. TO MAIN)	1	150	150		
	CONSULTATION	1	80	80		
O.R.'S:						
	ALCOVE,STRETCHER & STORAGE	1	40	40		
	SCRUB STATION	1	15	15		
	OPERATING ROOM (GENERAL)	2	650	1300		
	OPERATING ROOM (ORTHO)	0	500	0		
	OPERATING ROOM (OPEN HEART)	0	650	0		
	OPERATING ROOM (ISOLATION W/ANTE)	0	550	0		
	HEART PUMP ROOM	0	80	0		
	SUBSTERILE (BETWEEN OR'S)	1	80	80		
	CNTRL. STERILE/ WORK ROOM/ STER. STORAGE	0	275	0		
	ORTHO STORAGE	0	50	0		
SUPPORT:						
	INPATIENT/ STRETCHER HOLDING BAYS	1	60	60		
	NURSES STATION	1	80	80		
	NURSE/MANAGER OFFICE	1	80	80		
	ANESTHESIOLOGIST OFFICE	0	80	0		
	ANESTHESIA STORAGE/WORKROOM	1	80	80		
	DICTATION (2 stations)	1	60	60		
	SUB STERILE	0	60	0		
	RED BAG WASTE	1	40	40		
	EQUIPMENT ROOM	1	80	80		
	JANITOR CLOSET/H.K. EQUIPMENT	1	20	20		
	MALE STAFF LOCKERS (SHARED W/ PHYSICIANS)	1	200	200		
	FEM. STAFF LOCKERS (SHARED W/PHYSICIANS)	1	200	200		
	STAFF TOILET/SHOWER	2	160	320		
	STAFF LOUNGE	1	200	200		
	PHYSICIANS' SLEEP ROOM	0	80	0		
	PHYSICIANS' LOUNGE (SHW/TLT/SLEEP)	0	500	0		
	FROZEN SECTION LAB (may be in lab)	1	80	80		
CAESARIAN SECTION:						
	NURSES STATION, C'SECTION	0	100	0		
	C'SECTION ROOM	0	450	0		
	SUB-STERILE	0	75	0		
	SOILED UTILITY, C'SECTION	0	55	0		
	JANITOR CLOSET/H.K. EQUIPMENT,C'SECTION	0	20	0		
SPECIAL PROCEDURES:						
	ENDOSCOPY ROOM (PROCEDURES)	2	250	500		
	CLEAN-UP/ SCOPE WASH	1	150	150		
	DECON/SCOPE WASH	1	80	80		
	SCOPE STORAGE	1	80	80		
	TOILET,PATIENT	1	52	52		
	Subtotal			4027		
	Corridor/Wall	0.3		1208		

HOSPITAL: Valencia Hospital
PROJECT:

Cost Category **GROUP: SURGICAL SERVICES**

2

Medium

Department: SURGERY/SPEC. PROCEDURE

Room#	Space Name	# Spaces	Area/ Space	Total Sq Feet
	Mechanical/Electrical	0.08		322
	Totals			5557

Original Program	Disparity
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HOSPITAL: Valencia Hospital
PROJECT:

Cost Category **GROUP: SURGICAL SERVICES**
 2
 Medium Department: CENTRAL STERILE SUPPLY

Room#	Space Name	# Spaces	Area/ Space	Total Sq Feet
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Original Program	Disparity
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GENERAL:

DECONTAMINATION:

DECONTAMINATION:	1	120	120
WASHER/ DISINFECTOR	1	25	25
DETERGENT STORAGE	0	10	0
MANUAL CART WASH (AT DOCK)	0	50	0
JANITOR CLOSET	1	20	20

PROCESSING/PACKING:

CLEAN WORK AREA	1	120	120
(1 AUTOCLAVE) STERILIZER	1	40	40
STERRAD	0	80	0

PROCESSED STORAGE:

STERILE STORAGE	1	50	50
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TRANSPORTATION:

JANITOR CLOSET	1	20	20
CART STAGING/HOLD	1	80	80

Subtotal			475
Corridor/Wall	0.25		119
Mechanical/Electrical	0.08		38
Totals			632

HOSPITAL: Valencia Hospital
PROJECT:

Cost Category **GROUP: PATIENT CARE SERVICES**
 2
 Medium Department: MED./SURG. NURSING UNITS

Room#	Space Name	# Spaces	Area/ Space	Total Sq Feet
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Original Program	Disparity
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GENERAL:

TOILET, PUBLIC	2	52	104
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PATIENT WINGS:

ANTEROOM (ISOLATION)	1	52	52
PRIVATE PATIENT ROOM	14	250	3500
HC PRIVATE PATIENT ROOM (1 ISO RM)	1	250	250
PRIVATE REHAB PATIENT ROOM	0	220	0

INTENSIVE CARE UNIT:

ANTEROOM (ISOLATION)	0	52	0
PRIVATE PATIENT ROOM	0	220	0
STR/WC STORAGE	0	15	0
ALCOVE, EMERGENCY EQUIPMENT IN NURSE STATION	0	15	0
CENTRAL NURSES STATION	0	64	0
DICTATION (PER PERSON)	0	15	0
MEDICATION ROOM	0	50	0
CLEAN UTILITY	0	50	0
SOILED LINEN/UTILITY	0	50	0
EQUIPMENT STORAGE	0	50	0
JANITOR CLOSET	0	15	0
DEDICATED ICU WAITING	0	50	0
LOUNGE, EMPLOYEE/CONFERENCE (SHARED W/MS)	0	100	0
TOILET, STAFF (SHARED WITH MED SURG)	0	52	0

INPATIENT REHAB SUPPORT

PATIENT DINING (W TRNG KITCHEN)	0	180	0
PATIENT REHAB/ACTIVITY	0	180	0
ADL TOILET/TUB	0	80	0

INPATIENT MED/SURG SUPPORT

PATIENT BATH	0	44	0
PATIENT H.C. BATH	15	64	960
NURSES' SATELITE STATION	1	20	20
NOURISHMENT ROOM	1	60	60
CLEAN LINEN CART	0	20	0
SOILED LINEN CART	0	20	0
STORAGE, EQUIPMENT	1	50	50

CENTRAL SUPPORT:

STR/WC STORAGE	1	15	15
ALCOVE, EMERGENCY EQUIPMENT IN NURSE STATION	1	15	15
CENTRAL NURSES STATION	1	120	120
DICTATION (PER PERSON)	2	15	30
CONFERENCE ROOM	0	100	0
EXAMINATION	0	120	0
MEDICATION ROOM	1	80	80
CLEAN UTILITY	1	100	100
SOILED LINEN/UTILITY	1	80	80
EQUIPMENT STORAGE	1	50	50

HOSPITAL: Valencia Hospital
PROJECT:

Cost Category **GROUP: PATIENT CARE SERVICES**
 2
 Medium Department: MED./SURG. NURSING UNITS

Room#	Space Name	# Spaces	Area/ Space	Total Sq Feet
	JANITOR CLOSET	1	20	20
	LOCKERS- 10 1/2 HIGH	1	50	50
	LOUNGE, EMPLOYEE/CONFERENCE (SHARED)	1	100	100
	TOILET, STAFF	1	52	52
	Subtotal			<u>5708</u>
	Corridor/Wall	0.25		1427
	Mechanical/Electrical	0.08		<u>457</u>
	Totals			<u>7592</u>

Original Program	Disparity

HOSPITAL: Valencia Hospital

PROJECT:

Cost Category **GROUP: CRITICAL CARE**

2

Medium

Department: E.D. (Triage, Emergent, & Urgent)

Room#	Space Name	# Spaces	Area/ Space	Total Sq Feet	Original Program	Disparity
	SUBWAITING	1	225	225		
	ED-EMERGENT:					
	EMERGENCY ENTRY- VESTIBULE	1	65	65		65
	EMS	1	50	50		50
	DECONTAM/ BODY HOLD	1	80	80		80
	TRAUMA/CARDIAC (15'-4" X 18')	1	276	276		276
	EMERGENCY FIRST AID SUITE (TREAT RM.)	0	140	0		
	EXAM	9	120	1080		
	EQUIPMENT STORAGE	3	40	120		120
	LOCKERS	0	60	0		0
	LOUNGE	1	120	120		120
	TOILET, STAFF	1	52	52	Unisex	
	DOCTORS SLEEPING/OFFICE	1	80	80		80
	TOILET/SHOWER	1	64	64		64
	ED-TRIAGE:					
	EMERGENCY ENTRY	0	65	0		0
	ALCOVE, WHEELCHAIR/STRETCHER	1	20	20		20
	TRIAGE	2	120	240		240
	AMBULATORY ENTRY/ WAITING:					
	SECURITY	1	60	60		60
	WAITING/RECEPTION/VEST (WINDOW ONLY)	1	20	20		20
	ADMITTING -SHARE ADMIT FAX/COPY W NUR.STAT	0	60	0		0
	TELEPHONES	0	15	0		0
	TOILET, PUBLIC	2	60	120	Unisex	
	CONSULTATION/ BEREAVEMENT RM	1	100	100		100
	ED-URGENT:					
	SECURED HOLDING ROOM/ ISOLATION ROOM	1	120	120		120
	PEDI ROOM	0	120	0		0
	GYN EXAM RM + TOILET (SHARE PATIENT TLT)	1	180	180		180
	TOILET,PATIENT	4	52	208		208
	ED-PRIMARY:					
	NURSES STATION/CONTROL/TRIAGE/ADMIT(ALCOVE)	0	20	0		0
	EXAM CUBICLE (FAST TRACK)	0	100	0		0
	TOILET,PATIENT	0	52	0		0
	CENTRAL SUPPORT:					
	NURSES STATION/CONTROL/TRIAGE/ADMIT(ALCOVE)	1	250	250		
	DICTATION	1	30	30		30
	ALCOVE, EMERGENCY EQUIPMENT	1	20	20		20
	SUPERVISOR	1	100	100		100
	MEDICATION ROOM (ALCOVE)	1	80	80		80
	CLEAN UTILITY/NOURISHMENT	1	120	120		120
	SOILED UTILITY	1	100	100		100
	STORAGE ROOM	4	50	200		200
	JANITOR CLOSET	1	25	25		25
	Subtotal			4205		2478
	Corridor/Wall	0.3		1262		
	Mechanical/Electrical	0.08		336		
	Totals			5803		

HOSPITAL: Valencia Hospital
PROJECT:

Cost Category **GROUP: DIAGNOSTICS & THERAPEUTICS**
 2
 Medium Department: LIGHT DIAGNOSTICS

Room#	Space Name	# Spaces	Area/ Space	Total Sq Feet
GENERAL:				
	WAITING/RECEPTIONIST (SHARED)	1	100	100
P.A.T. / STAGING				
	PRE-ADMISSION TESTING CUBICLES	0	70	0
	SPECIMEN TOILET, HC	0	52	0
	NURSES STATION-P.A.T.	0	50	0
EEG,SLEEP STUDY:				
	EEG/SLEEP	0	120	0
	ECHO/STRESS	0	130	0
	EQUIPMENT ROOM	0	50	0
CARDIOLOGY SERVICES:				
	Outpatient EKG	0	100	0
RESPIRATORY CARE				
	BLOOD GAS	0	50	0
	PULMONARY FUNCTION (CUBICLE)	0	80	0
	RESPIRATORY TREAT (STG)	0	80	0
	CHARTING REPORTS	0	50	0
	OFFICE	0	100	0
	STORAGE/CU(WINDOW TO DIRTY)	0	90	0
	SOILED UTILITY	0	60	0
	WAITING ALCOVE (IN CORRIDOR)	0	0	0
	TOILET STAFF/PTN	0	52	0
	JANITOR CLOSET			
WOMEN'S SERVICES:				
MAMMOGRAPHY				
	MAMMOGRAPHY ROOM (11'-6" X 12')	1	120	120
ULTRASOUND				
	ULTRASOUND	2	120	240
	TOILET, PATIENT	1	52	52
	TECH WORK AREAS (SHARED)	0	80	0
	Subtotal			512
	Corridor/Wall	0.3		154
	Mechanical/Electrical	0.08		41
	Totals			<u>707</u>

Original Program	Disparity

Shared with DX

HOSPITAL: vaencia Hospital

PROJECT:

Cost Category **GROUP: DIAGNOSTICS & THERAPEUTICS**
 2
 Medium Department: HEAVY DIAGNOSTICS

Room#	Space Name	# Spaces	Area/ Space	Total Sq Feet	Original Program	Disparity
GENERAL:						
	GOWNED WAITING	2	80	160		160
	RECEPTION/ CONTROL	1	55	55		55
	OUTPATIENT DRESS/ STAGING (IN LIGHT DX)	2	60	120		120
	DIRECTOR RADIOLOGY OFFICE	1	80	80		80
	MAMMO TECH	1	60	60		60
	RADIOLOGIST OFFICE	0	100	0		0
RADIOLOGY:						
	HOLDING, IN-PATIENT	0	80	0		0
	R&F W/CHEST	0	312	0		0
	TOILET	1	52	52		52
	CHEST ROOM	0	140	0		0
	RADIOGRAPHY	1	252	252		252
	STORAGE, UNEXPOSED FILM	0	20	0		0
	DARK RM/DAYLIGHT PROCESSOR	0	70	0		0
	FILM SORTING/QC /VIEWING/TECH	0	100	0		0
	CLEAN UTILITY	1	80	80		80
	SOILED LINEN/UTILITY	1	80	80		80
	DIGITAL READ ROOM/WORK AREA	1	120	120		120
	PORTABLE EQUIP ALCOVE	1	40	40		40
	LOUNGE W/ LOCKERS 12 LOCKERS	0	120	0		0
	TOILET, STAFF	1	52	52		52
CT:						
	CT SCANNER	1	300	300		300
	CT COMPUTER	1	110	110		110
	CT CONTROL (8X15)	1	100	100		100
	CT TOILET	1	52	52		52
NUCLEAR MEDICINE:						
	NUCLEAR CAMERA	0	250	0		0
	HOT LAB	0	60	0		0
	TOILET, PATIENT	0	60	0		0
MRI:						
	MRI PREP/ HOLD AREA (9X11)	1	80	80		80
	MRI	1	400	400		400
	MRI COMP	1	200	200		200
	MRI CONT	1	120	120		120
	MRI CRYOGEN STORAGE	0	40	0		0
CATH LAB: (INVASIVE)						
	SCRUB ALCOVE	0	20	0		0
	CATH	0	460	0		0
	CATH COMPUTER	0	100	0		0
	CATH CONTROL	0	140	0		0
	DARKROOM	0	70	0		0
	CLEAN UTILITY	0	80	0		0
	SOILED WASTE	0	30	0		0
	FILM FILE STORAGE	0	100	0		0
	STORAGE	0	60	0		0
	STAFF DRESSING	0	80	0		0
	TOILET, PATIENT	0	60	0		0
	TOILET, STAFF	0	60	0		0
	CATH RECOVERY CUBICLES	0	130	0		0

Shared

HOSPITAL: Valencia Hospital
PROJECT:

Cost Category **GROUP: DIAGNOSTICS & THERAPEUTICS**
 2
 Medium Department: HEAVY DIAGNOSTICS

Room#	Space Name	# Spaces	Area/ Space	Total Sq Feet	Original Program	Disparity
	CATH HOLDING (INPATIENT)	0	80	0		0
	CATH NURSING STATION	0	100	0		0
	JANITOR CLOSET	0	35	0		0
	SU/CU/MP/STG/SUPPORT					0
						0
	JANITOR CLOSET	1	20	20		20
	Subtotal			2533		2533
	Corridor/Wall	0.3		760		
	Mechanical/Electrical	0.08		203		
	Totals			3496		

SHARED

HOSPITAL: Valencia Hospital
PROJECT:

Cost Category **GROUP: CENTRAL SUPPORT**
 2
 Medium Department: **RAPID RESPONSE LABORATORY**

Room#	Space Name	# Spaces	Area/ Space	Total Sq Feet
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Original Program	Disparity
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CLINICAL PATHOLOGY:

SPECIMEN COLLECTION:

PHLEBOTOMY STATION (IN LIGHT DX)	1	80	80
SPECIMEN TOILET (IN LIGHT DX)	1	60	60

OFFICE:

WAITING	1	40	40
RECEPTIONIST/ SECRETARY	0	0	0
CONFERENCE/ CONSULT ROOM	0	0	0
PATHOLOGIST OFFICE	0	100	0
2550 LAB DIRECTOR OFFICE	1	100	100
2665 LOCKER ROOM (SHARED W/ HEAVY DX)	0	60	0
2670 LOUNGE (SHARED W/ HEAVY DX)	0	80	0
TOILET, STAFF (SHARED W/ HEAVY DX)	0	52	0

CENTRAL SPECIMEN PROCESSING:

2473 DATA ENTRY WORKSTATION	0	40	0
FREEZER	0	20	0
INCUBATOR	0	10	0
PNEUMATIC TUBE STATION	0	20	0
2499? PRIMARY PROCESSING WORKSTATION	0	40	0
REFERRAL/SEND-OUT WORKSTATION	0	40	0
REFRIGERATOR	0	20	0
SINK W/EYE WASH	0	10	0
2780 STORAGE	0	10	0

BLOOD BANK:

AGGLUTINATION VIEWLAMP	0	30	0
BLOOD CELL PROCESSOR/CENTRIFUGE	0	30	0
CELLWASHER	0	10	0
CENTRIFUGE/COUNTERTOP	0	10	0
FREEZER	0	20	0
INCUBATOR	0	30	0
MICROSCOPE	0	24	0
PATIENT RECORDS FILE	0	18	0
PLASMA FREEZER	0	24	0
PLASMA THAW	0	12	0
PLATELET ROTATOR	0	12	0
PORTABLE FILE	0	12	0
RECEIVING/LOG	0	40	0
REFRIGERATOR-BLOOD BANK	0	24	0
SINK/HANDWASHING AREA	0	20	0
WORK AREA (GROSS MATCH)	0	25	0

CHEMISTRY:

ACCESSIONING(RECEIVE/PROCESS)	0	84	0
AUTOMATED CHEMISTRY W/PRINTER ETC	0	80	0
BALANCE	0	12	0

HOSPITAL: Valencia Hospital
PROJECT:

Cost Category **GROUP: CENTRAL SUPPORT**
 2
 Medium Department: **RAPID RESPONSE LABORATORY**

Room#	Space Name	# Spaces	Area/ Space	Total Sq Feet
	BILIRUBINOMETER	0	30	0
	COMPUTER,RECORDS,FILES, SUPERVISOR	0	60	0
	COMPUTER-PROCESS (ROOM)	0	64	0
	COMPUTERS-TERRANO	0	60	0
	ELECTROPHORESIS/ CLERICAL AREA	0	70	0
	FREEZER	0	20	0
2466	MANUAL CHEMISTRY	0	40	0
	NOVA	0	30	0
	REFRIGERATOR	0	20	0
	SINK/HANDWASHING	0	10	0
	STATUS II-ADV WESCOR OSMOMETER	0	30	0
	STORAGE	0	20	0
	GLASS WASH-WASHER,DRYER,STERILIZER	0	60	0
	HEMATOLOGY/COAGULATION:			
	COAGULATION-AUTOMATED	0	30	0
	COAGULATION, SEMI-AUTOMATED	0	30	0
	FREEZER	0	20	0
	HEMATOLOGY ANALYZER W/COMPUTER	0	52	0
	MICROHEMATOCRIT CENTRIFUGE	0	20	0
	MICROSCOPE AREA	0	30	0
	PRINTER	0	12	0
	RECEIVING/ PROCESSING AREA	0	84	0
	REFRIGERATOR	0	20	0
	SINK	0	10	0
	STAINING	0	20	0
	STORAGE	0	20	0
	MICROBIOLOGY:			
	BACTEC	0	30	0
	CENTRIFUGE	0	60	0
	HOOD-BACTERIOLOGY	0	50	0
	GAS TANKS	0	20	0
	INCUBATOR-CO2	0	30	0
	INCUBATOR-AIROROBIC	0	30	0
	INCUBATOR-ANTIROBIC	0	30	0
	MICROSCAN	0	30	0
	MICROSCOPE AREA	0	24	0
	PLATING	0	20	0
	REFRIGERATOR-CULTURES&SLIDES	0	24	0
	REFRIGERATOR-SPECIMEN STORAGE	0	15	0
	SINK	0	20	0
	STORAGE	0	50	0
	SEROLOGY/URINALYSIS:			
	SOILED UTILITY	0	60	0
	AGGLUTINATION VIEWLAMP	0	30	0
	RECEIVING WORKSTATION	0	30	0

Original Program	Disparity

HOSPITAL: Valencia Hospital
PROJECT:

Cost Category **GROUP: CENTRAL SUPPORT**
 2
 Medium Department: RAPID RESPONSE LABORATORY

Room#	Space Name	# Spaces	Area/ Space	Total Sq Feet
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Original Program	Disparity
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	ROTATOR	0	12	0
	URINE ANALYZER	0	20	0
	GENERAL WORKSTATION - 7 LF	0	42	0

ANATOMIC PATHOLOGY:

PATHOLOGY/HISTOLOGY:

	AUTOCLAVE	0	18	0
	CENTRIFUGE-CYTO	0	20	0
	COVERSLIPPER	0	20	0
	CUTTING/MICROTONE	0	30	0
	CRYOSTAT MICROTONE	0	30	0
	GROSS CUTTING	0	30	0
	IMBEDDING	0	30	0
	MANUAL WORKSTATION	0	40	0
	RECEIVING	0	30	0
	REFRIGERATOR	0	24	0
	SINK	0	20	0
	SLIDE PREPARATION	0	30	0
	STAINING	0	64	0
	STORAGE-TISSUE & FLAMMABLE	0	70	0
	TISSUE PROCESSOR	0	30	0

CYTOLOGY:

	AUTOSTAINER	0	30	0
	COVERSLIPPER	0	20	0
	PROCESSING WORKSTATION	0	60	0
	SCREENING WORKSTATION	0	40	0
	STORAGE	0	20	0

SHARED SUPPORT:

2780	STORAGE	0	120	0
	EYE WASH/EMERGENCY SHOWER	0	50	0
	JANITOR CLOSET	0	40	0
	MORGUE (AT LOADING DOCK):			
	BODY HOLDING	0	110	0

Subtotal				140
Corridor/Wall	0.17			24
Mechanical/Electrical	0.08			11

Totals

540 Override

HOSPITAL: Valencia Hospital
PROJECT:

Cost Category **GROUP: CENTRAL SUPPORT**
 2
 Medium Department: MATERIALS MANAGEMENT

Room#	Space Name	# Spaces	Area/ Space	Total Sq Feet
	PURCHASING AREA SECY/LIBRARY/EQUIP	1	75	75
	DECASING AREA	1	50	50
	RECEIVING AREA	1	50	50
	GENERAL STORAGE	1	280	280
	STORAGE, SECURE	1	20	20
	DIRECTORS OFFICE	1	80	80
	WORKROOM	1	160	160
	LOCKERS (SHARED W/ MAINTEN & HOUSEK)	0	140	0
	TOILET(SHARED W/ MAINTEN & HOUSEK))	0	150	0
	Subtotal			<u>715</u>
	Corridor/Wall	0.1		72
	Mechanical/Electrical	0.08		<u>57</u>
	Totals			844

Original Program	Disparity
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20 SF per IP Bed

HOSPITAL: **vaencia Hospital**

PROJECT:

Cost Category **GROUP: CENTRAL SUPPORT**

2

Medium Department: PHARMACY

Room#	Space Name	# Spaces	Area/ Space	Total Sq Feet	Original Program	Disparity
	VESTIBULE WAITING ALCOVE	0	50	0		0
	PHARMACY WOORKROOM	1	100	100		100
	OUTPATIENT PHARMACY (COMP STN)	1	60	60		60
	DIRECTORS OFFICE (DESK)	1	40	40		40
	PHARMACIST' WK STN	1	40	40		40
	PACKAGING/PRODUCT LABELING AREA	0	0	0		0
	CASSETTE CART STAGING (3)	0	40	0		0
	PICKING AREA	1	40	40		40
	IV PREPARATION W/HOOD	1	140	140		140
	ANTE ROOM	1	100	100		100
	BULK COMPOUNDING AREA	1	60	60		60
	IV STORAGE (IN BELOW)					
	BULK STORAGE	1	50	50		50
	REFRIGERATED STORAGE	1	15	15		15
	LOCKED NARCOTICS	1	8	8		8
	CONTROLLED DRUG STG	1	20	20		20
	STORAGE, SUPPLIES	1	8	8		8
	SECURED WASTE ROOM	0	15	0		0
	JANITOR CLOSET	0	25	0		0
	TOILETS	0	52	0		0
						0
	Subtotal			681		681
	Corridor/Wall	0.2		136		
	Mechanical/Electrical	0.08		54		
	Totals			872		

500 SF min

Add 797 room

HOSPITAL: Valencia Hospital
PROJECT:

Cost Category GROUP: CENTRAL SUPPORT
 2
 Medium Department: FOOD SERVICE

Room#	Space Name	# Spaces	Area/ Space	Total Sq Feet
DINING:				
	DINING - PUBLIC	1	250	250
	VENDING	1	30	30
	SNACK BAR STORAGE	0	10	0
	SERVING SCRAMBLE LINE	0	120	0
KITCHEN:				
	FOOD SERVICE MANAGER	1	80	80
	DISHWASHING	1	130	130
	POTWASH	1	100	100
	KITCHEN	1	250	250
	DRY STORAGE	1	50	50
	REFRIGERATOR	1	50	50
	FREEZER	1	50	50
	MISCELLANEOUS STORAGE/UTILITY	1	40	40
	CLEANING SUPPLIES STORAGE	1	10	10
	JAN. CLOSET W/HK EQUIPMENT	1	15	15
	TOILET	1	52	52
	KITCHEN WASTE STORAGE ROOM	1	40	40
	Subtotal			1147
	Corridor/Wall	0.2		229
	Mechanical/Electrical	0.08		92
	Totals			<u>1468</u>

Original Program	Disparity
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Cook/Chill Warming Kitchen
 Assumes Disposables
 Assumes Disposables

HOSPITAL: Valencia Hospital
PROJECT:

Cost Category GROUP: CENTRAL SUPPORT
 2
 Medium Department: MAINTENANCE

Room#	Space Name	# Spaces	Area/ Space	Total Sq Feet
	STORAGE, EQUIPMENT	0	50	0
	STORAGE, FLAMMABLE	1	20	20
	BIO-MEDICAL ENGINEERING	1	80	80
	SECRETARY	0	80	0
	FILES	1	10	10
	DIRECTOR	1	80	80
	PLANT OPS SHOP AREA	1	80	80
	BODY HOLD	0	60	0
	Subtotal			270
	Corridor/Wall	0.2		54
	Mechanical/Electrical	0.08		22
	Totals			346

Original Program	Disparity
	0
	20
	80
	0
	10
	80
	80
	0
	270

HOSPITAL: Valencia Hospital
PROJECT:

Cost Category **GROUP: CENTRAL SUPPORT**
 2
 Medium Department: HOUSEKEEPING

Room#	Space Name	# Spaces	Area/ Space	Total Sq Feet	Original Program	Disparity
GENERAL:						
	SUPERVISOR (DESK)	0	50	0		0
	LOCKERS (SHARED W/ MAINTEN & MAT'L MAN)	2	60	120		120
	TOILET (SHARED W/ MAINTEN & MAT'L MAN)	2	52	104		104
	LINEN SERVICES/LAUNDRY Outsourced Approach					
	LINEN CART STAGING	0	80	0		0
	LAUNDRY	0	100	0		0
	SOILED LINEN (DIRTY RM)	1	60	60		60
	SORTING ROOM (IN SOILED)	0	80	0		0
	CLEAN LINEN (IN LAUNDRY)	1	60	60		60
	CLEANING SERVICES:					
	JANITOR CLOSET (SHARED IN EQUIP STG)	0	25	0		0
	HOUSEKEEPING EQUIP STG	1	70	70		70
	INFECTED WASTE HOLDING	1	40	40		40
	Subtotal			454		454
	Corridor/Wall	0.2		91		
	Mechanical/Electrical	0.08		36		
	Totals			581		