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# COLUMBIA DOCTORS TARRYTOWN

## NEW MRI

155 WHITE PLAINS ROAD  
TARRYTOWN, NY 10591

CD Submission

06/18/2021

OWNER	ARCHITECT	STRUCTURAL ENGINEER	MEP ENGINEER
COLUMBIA UNIVERSITY MEDICAL CENTER (CUMC) 155 WHITE PLAINS ROAD TARRYTOWN, NY 10591 PHONE: 914.333.9800	ARRAY ARCHITECTS 470 PARK AVENUE SOUTH, 11TH FLOOR New York, NY, 10016 PHONE: 212.689.3110	REUTHER + BOWEN 326 WARD STREET DUNMORE, PA 18512 PHONE: 570.496.7020	LORING CONSULTING ENGINEERS, INC. 360 WEST 31ST STREET NEW YORK, NY 10001 PHONE: 646.674.6100



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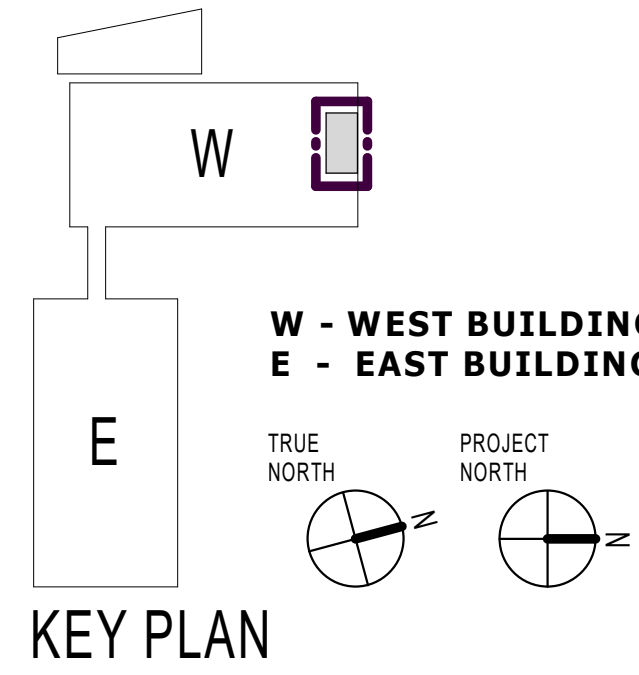
MEP ENGINEER

LORING CONSULTING ENGINEERS, INC.  
360 WEST 31ST STREET  
NEW YORK, NY 10001  
PHONE: 646.674.6100

**OWNER:**  
COLUMBIA DOCTOR'S  
TARRYTOWN

**PROJECT:**  
NEW MRI

155 WHITE PLAINS ROAD  
TARRYTOWN, NY 10591



NO.	DESCRIPTION	DATE
REVISIONS/ISSUES		

**SHEET TITLE:**  
COVER SHEET &  
DRAWING LIST

SEAL:	DATE: 06/18/2021 CON/REF No. CONTRACT No. SCALE: AS NOTED PROJECT No. 6109 CHECKED: CH DRAWN: KU
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**SHEET NO.**  
T-000.00

DWG OF 47

CD Submission 06/18/2021

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2020 BUILDING CODE OF NEW YORK STATE REQUIREMENTS																																																																																																																																																				
<b>PROJECT DESCRIPTION:</b> TITLE: COLUMBIA DOCTOR'S TARRYTOWN NAME: NEW MRI ADDRESS: 155 WHITE PLAINS ROAD, TARRYTOWN, NY 10591  RENOVATION OF EXISTING SPACE WITHIN THE IMAGING SUITE FOR A NEW MRI ROOM AND EQUIPMENT ROOM		<b>REFERENCE DATA:</b> HOUSE NO.: 155 STREET: WHITE PLAINS ROAD TOWN: TARRYTOWN COUNTY: WEST CHESTER BLOCK: LOT: 1.201-121.5.11 SPECIAL DISTRICT: NONE																																																																																																																																																		
<b>BC BUILDING CODE PROJECT TYPE:</b> (CHECK ALL THAT APPLY.) <input type="checkbox"/> NEW BUILDING <input type="checkbox"/> REPAIR <input type="checkbox"/> ALTERATION LV1 <input checked="" type="checkbox"/> ALTERATION LV2 <input type="checkbox"/> ALTERATION LV3 <input type="checkbox"/> CHANGE OF OCCUPANCY <input type="checkbox"/> ADDITION																																																																																																																																																				
<b>NFPA PROJECT TYPE:</b> (CHECK ALL THAT APPLY.) <input type="checkbox"/> NEW BUILDING <input type="checkbox"/> REPAIR <input checked="" type="checkbox"/> RENOVATION <input type="checkbox"/> ALTERATION <input type="checkbox"/> RECONSTRUCTION <input type="checkbox"/> HISTORIC BUILDING <input type="checkbox"/> ADDITION <input type="checkbox"/> EGRESS CHANGE <input type="checkbox"/> CHANGE OF OCCUPANCY <input checked="" type="checkbox"/> EXISTING OCCUPANCY NO CHANGES <input type="checkbox"/> OTHER (LIST OTHER CHANGES)																																																																																																																																																				
<b>WORK INVOLVED:</b> (CHECK ALL THAT APPLY.) <input checked="" type="checkbox"/> GENERAL CONSTRUCTION <input type="checkbox"/> ROOFING <input type="checkbox"/> ASBESTOS ABATEMENT/ENVIRONMENTAL <input checked="" type="checkbox"/> FIRE ALARM <input checked="" type="checkbox"/> STRUCTURAL <input checked="" type="checkbox"/> MECHANICAL <input checked="" type="checkbox"/> PLUMBING <input checked="" type="checkbox"/> ELECTRICAL <input type="checkbox"/> SITE WORK <input checked="" type="checkbox"/> SPRINKLERS <input type="checkbox"/> ELEVATORS <input type="checkbox"/> OTHER																																																																																																																																																				
<b>APPLICABLE CODES:</b> BUILDING CODE: NEW YORK STATE BUILDING CODE 2020 LIFE SAFETY CODE: NFPA 101 2012 ACCESSIBILITY CODE: ANSI A 117.1 - 2010 GUIDELINES: FGI GUIDELINES 2018 STRUCTURAL CODE: INTERNATIONAL STRUCTURAL CODE 2020 PLUMBING CODE: INTERNATIONAL PLUMBING CODE 2020 MECHANICAL CODE: INTERNATIONAL MECHANICAL CODE 2020 ELECTRICAL CODE: NATIONAL ELECTRICAL CODE 2020 ENERGY CODE: INTERNATIONAL ENERGY CONSERVATION CODE 2020 FUEL GAS CODE: INTERNATIONAL FUEL GAS CODE 2020																																																																																																																																																				
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SITE PLAN WAIVER

PER 106.2 NY BUILDING CODE, THE CONSTRUCTION DOCUMENTS SUBMITTED WITH THE APPLICATION FOR BUILDING PERMIT SHALL BE ACCOMPANIED BY A SITE PLAN SHOWING TO SCALE THE SIZE AND LOCATION OF NEW CONSTRUCTION AND EXISTING STRUCTURES ON THE SITE, DISTANCES FROM LOT LINES, THE ESTABLISHED STREET GRADES AND THE PROPOSED FINISHED GRADES AND, AS APPLICABLE, FLOOD HAZARD AREAS, FLOODWAYS, AND DESIGN FLOOD ELEVATIONS, AND IT SHALL BE DRAWN IN ACCORDANCE WITH AN ACCURATE BOUNDARY LINE SURVEY. IN THE CASE OF DEMOLITION, THE SITE PLAN SHALL SHOW CONSTRUCTION TO BE DEMOLISHED AND THE LOCATION AND SIZE OF EXISTING STRUCTURES AND CONSTRUCTION THAT ARE TO REMAIN ON THE SITE OR PLOT.  
THE BUILDING OFFICIAL IS AUTHORIZED TO WAIVE OR MODIFY THE REQUIREMENT FOR A SITE PLAN WHERE THE APPLICATION FOR A BUILDING PERMIT IS FOR ALTERATION OR REPAIR OR WHERE OTHERWISE WARRANTED.  
THIS PROJECT IS AN INTERIOR RENOVATION AND WOULD NOT REQUIRE AN UPDATED SITE PLAN

FIRE RATINGS

NON-LOADBEARING WALLS AND PARTITIONS	HOURS	UL DESIGN #
FIRE WALLS (706)	2	# U411
EXIT ENCLOSURES (707.3.2 / 1022.1)	2	
EXITS PASSAGEWAY (707.3.4 / 1025.1)	2	
HORIZONTAL EXITS (707.3.7 / 1025.1)	2	
INCIDENTAL USE AREAS (707.3.7 / 509)	1	# U465
OCCUPANCIES SEPARATION (707.3.9 / 508.4)	2	
FIRE PARTITIONS (708)	1	
SMOKE BARRIERS (709)	1	
SHAFT ENCLOSURES (713)	2	# U438
CORRIDOR WALLS (708.3 / 1017.1)	0	

GENERAL NOTES:

1) ALL RATED INTERIOR PARTITION SHOULD BE CONSTRUCTED IN ACCORDANCE WITH THE RATED PARTITION SCHEDULE UNLESS NOTED OTHERWISE ON THE FLOOR PLANS  
2) CONTRACTOR TO PATCH AND REPAIR ALL NEW AND EXISTING FIREPROOFING AFTER INSTALLATION OF NEW WORK AS REQUIRED TO MAINTAIN REQUIRED FIRE RATING. CONTRACTOR TO USE MATERIALS COMPATIBLE WITH EXISTING FIREPROOFING FOR PATCH WORK.

SYMBOL LEGEND

ROOM INDICATION

ROOM NAME

101

ROOM NAME

ROOM NUMBER

NORTH ARROW

N

SITE PLAN NORTH ARROW

NORTH

DOOR DESIGNATION

101

DOOR NUMBER

WINDOW SYMBOL

1

WINDOW TYPE OR BORROWED LIGHT

1

ON ELEVATION

IN PLAN

STOREFRONT DESIGNATION

SF1

STOREFRONT NUMBER

SECTION INDICATION

A1

A101

SECTION NUMBER

SHEET WHERE SHOWN

MILLWORK SECTION INDICATION

A1

A101

SECTION NUMBER

SHEET WHERE SHOWN

ELEVATION INDICATION

A1

A201

INTERIOR AND/OR EXTERIOR

A1

A201

K2

A3

MULTIPLE INTERIOR

FIRE EXTINGUISHER

FEC

FIRE EXTINGUISHER CABINET

>FE

FIRE EXTINGUISHER

DETAIL INDICATION

1

A101

AREA DETAILED

DETAIL NUMBER

SHEET WHERE SHOWN

REVISION INDICATION

1

REVISION NUMBER

ALIGN WITH EXISTING CONSTRUCTION

A

PARTITION TYPE SYMBOL

6

PARTITION TYPE

EQUIPMENT DESIGNATION

001

EQUIPMENT NUMBER

CEILING DESIGNATION

8'-6"

C-1

CEILING HEIGHT

CEILING TYPE

FINISH SYMBOLS

RM-FIN

ROOM FINISH TAG

WALL FINISH

FLOOR FINISH

BASE FINISH

WP-3A

WALL PROTECTION TAG

CG

DENOTES CORNER GUARD LOCATION

MATCHLINE

A1 / A111

SHEET NUMBER OF ADJACENT DRAWING

VIEW NUMBER OF ADJACENT DRAWING

LINETYPE SYMBOLS

1

1

EXISTING COLUMN GRID DENOTED WITH AN 'E' PREFIX

COLUMN GRID

--- · · ·

LIMIT OF CONSTRUCTION

---

PROPERTY LINE

----

CENTER LINE / ELEVATION LINE

----

WORK ABOVE, BEYOND OR TO BE REMOVED

----

BUMPER GUARD, CHAIR RAIL, HAND RAIL FOR LOCATION SEE PLANS

----

BREAK LINE

KEYNOTE SYMBOL

A1

KEYNOTE INDICATOR

COMPONENT AND SYSTEM KEYNOTE SYMBOL

09-AA-A1

KEYNOTE INDICATOR

EXISTING DOOR DESIGNATION

EXISTING DOOR

NEW DOOR DESIGNATION

NEW DOOR

EMERGENCY DOOR DESIGNATION

NEW DOOR

EMERGENCY SWING

DOUBLE EGRESS DOOR DESIGNATION

NEW DOOR

STARTING POINT

+

STARTING POINT

ELEVATION TAG

Name

Elevation

GENERAL DIMENSIONING

0'-0"

0'-0"

COLUMN GRID CENTERLINE INDICATOR

FACE OF SURFACE INDICATOR

NOTE: DIMENSIONS ARE TAKEN FROM TO FINISH SURFACE, UNLESS OTHERWISE NOTED.

0'-0" ±

NOTE: THE ± INDICATES A DIMENSION THAT CAN VARY. (NOTIFY THE ARCHITECT OF ANY CHANGE IN THAT DIMENSION IF IT IS GREATER THAN 1")

0'-0"

0'-0"

CLEAR

NOTE: CLEAR = THE ACTUAL FIELD DIMENSION MAY NEVER BE LESS THAN THE CLEAR DIMENSION INDICATED, BUT MAY BE GREATER BY 1" MAX.

0'-0"

0'-0"

HOLD

NOTE: HOLD = THE ACTUAL FIELD DIMENSION MUST BE EQUAL TO THE DIMENSION INDICATED AND MUST BE MAINTAINED

CONTRACTOR GENERAL NOTES

1. THE CONTRACT DOCUMENTS ARE COMPRISED OF THE PROJECT MANUAL, THE DRAWINGS, AND ANY ADDITIONAL OWNER PROVIDED INFORMATION. THE INTENT OF THE CONTRACT DOCUMENTS IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK BY THE CONTRACTOR. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL.

2. THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE CODES OF THE STATE, COUNTY, CITY, FEDERAL LAWS AND REGULATIONS, OSHA (OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION), SANITARY LAWS, STATUTES AND ORDINANCES. NO WORK SHALL BE INSTALLED IN VIOLATION OF ANY CODES.

3. THE CONTRACTOR SHALL ARRANGE FOR INSPECTIONS NECESSARY TO OBTAIN A CERTIFICATE OF OCCUPANCY.

4. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID PROPOSAL. THE CONTRACTOR SHALL BECOME GENERALLY FAMILIAR WITH THE PROJECT AND WITH THE IMPACT OF THE NEW WORK ON THE EXISTING CONDITIONS. THIS INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING EXISTING CONDITIONS: FIRE RATING OF THE HORIZONTAL AND VERTICAL ASSEMBLIES AND THEIR EXISTING CONDITION, PENETRATIONS THROUGH FIRE RATED ASSEMBLIES, MISSING OR INOPERABLE DAMPERS IN RATED ASSEMBLIES. ANY QUESTIONS OR COMMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO SUBMITTING A BID PROPOSAL.

5. THE CONTRACTOR SHALL MAINTAIN AT THE JOB SITE COPY OF ALL DRAWINGS, SPECIFICATIONS, BULLETINS, APPROVED SHOP DRAWINGS, OTHER SUBMITTALS, SAMPLES AND OTHER CONTRACT MODIFICATIONS. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL PROVIDE THE OWNER ONE COMPLETE SET OF PROJECT RECORD DOCUMENTS.

6. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, FOR THE COORDINATION OF WORK AND FOR THE WORK PERFORMED BY THE SUB CONTRACTORS.

7. EACH TRADE CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SEQUENCE OF ONE'S WORK WITH THAT OF ALL OTHER TRADES. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT, AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.

8. ALL CODE REQUIRED EXITS AND INTERIM LIFE SAFETY SYSTEMS, WHICH INCLUDE BUT ARE NOT LIMITED TO EXIT LIGHTS, EMERGENCY LIGHTS, ALARMS, SPRINKLERS, ETC. SHALL BE MAINTAINED IN OPERABLE CONDITION THROUGHOUT THE CONTRACT PERIOD.

9. WHENEVER IT IS NECESSARY TO PROVIDE TEMPORARY "PATHS OF EGRESS" THROUGH THE AREAS OF THE WORK, SUCH PATHS SHALL BE PROVIDED BY THE CONTRACTOR WITH ADEQUATE ARTIFICIAL LIGHT, DIRECTION SIGNS, CLEARANCES, FIRE PROTECTION, ETC., AND SHALL BE CONSTRUCTED AND MAINTAINED SAFE FROM FIRE, SMOKE, AND OTHER PHYSICAL DANGERS.

10. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN CONSTRUCTION SITE IN A SAFE CONDITION PER OSHA - "OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION AND ANY APPLICABLE LAWS, REGULATIONS AND ORDINANCES AT ALL TIMES FOR THE PUBLIC, ALL PERSONNEL INVOLVED IN THE WORK, OR ESSENTIAL TO ITS EXECUTION, INCLUDING INSPECTORS, SUPERVISORS, ARCHITECTS' REPRESENTATIVES, FIELD TESTING PERSONNEL.

11. THE CONTRACTOR SHALL INSTALL PERMANENT OR TEMPORARY FIRE EXTINGUISHERS THROUGHOUT THE LIMIT OF WORK PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL MAINTAIN SUCH EQUIPMENT IN WORKING ORDER THROUGHOUT CONSTRUCTION. THE TYPE, QUANTITY AND LOCATION OF THIS EQUIPMENT SHALL BE REASONABLY ADEQUATE TO SUIT THE CONDITIONS AND COMPLY WITH ALL APPLICABLE LAWS, REGULATIONS AND ORDINANCES.

12. THE CONTRACTOR SHALL PROVIDE FIRE PROTECTION AT EACH WASTE CONTAINER AND AS REQUIRED BY LOCAL AUTHORITIES.

13. THE CONTRACTOR SHALL PROVIDE CHASES TO CONCEAL MECHANICAL, PLUMBING, AND ELECTRICAL WORK. PIPING LOCATED INSIDE THE BUILDING SHALL BE CONCEALED IN FURRED SPACES WITH THE EXCEPTION OF PIPING IN STAIRWAYS, EQUIPMENT ROOMS, AND MECHANICAL ROOMS. THE CONTRACTOR SHALL COORDINATE WITH THE OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISHED AREAS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ARCHITECT PRIOR TO LOCATING AND/OR PROVIDING 'FURRED SPACES' NOT INDICATED ON THE DRAWINGS.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND RESTORING EXISTING BUILDING CONSTRUCTION TO ITS ORIGINAL CONDITIONS FROM ANY DAMAGES DURING CONSTRUCTION FROM WORK PERFORMED IN CONNECTION WITH THIS CONTRACT. WHERE DAMAGED OR WORK ITEMS CANNOT BE REPAIRED OR RESTORED, THE CONTRACTOR SHALL PROVIDE REPLACEMENTS OF A KIND, ANY REPAIR, RESTORATION AND REPLACEMENT SHALL BE BY METHODS AND WITH MATERIALS SO AS NOT TO VOID ANY EXISTING WARRANTIES IN PLACE.

15. THE CONTRACTOR SHALL COMPLETE FINAL CLEANING IN ACCORDANCE WITH THE PROJECT MANUAL PRIOR TO THE PUNCH LIST.

DRAWING LIST		
NUMBER	REV.	SHEET NAME
TITLE		
T-000	.00	COVER SHEET & DRAWING LIST
GENERAL		
G-001	.00	CODE REQUIREMENTS, SYMBOLS LEGEND, FLOOD MAP DATA AND GENERAL NOTES
G-002	.00	UL DETAILS
G-003	.00	UL DETAILS
G-004	.00	UL DETAILS
G-010	.00	ICRA PLAN AND NOTES
G-011	.00	PROJECT PHASING AND MRI RIGGING
LIFE SAFETY		
LSC-101	.00	LIFE SAFETY & OCCUPANCY PLANS AND NOTES
DEMOLITION		
AD-100	.00	DEMOLITION PLAN
STRUCTURAL		
S-001	.00	GENERAL STRUCTURAL NOTES AND DESIGN CRITERIA
S-100	.00	PARTIAL FOUNDATIONS PLAN AND DETAILS
S-101	.00	2ND FLOOR AND ROOF FRAMING PLAN AND DETAILS
ARCHITECTURE		
A-100	.00	ARCHITECTURAL PLAN
A-300	.00	ROOF PLAN
A-301	.00	ROOF DETAILS
A-400	.00	EQUIPMENT PLAN
A-500	.00	REFLECTED CEILING PLAN & CEILING DETAILS
A-600	.00	INTERIOR ELEVATIONS
A-720	.00	PARTITION TYPES & RATED ASSEMBLY
A-721	.00	FRAMING DETAILS
A-722	.00	INTERIOR DETAILS
A-800	.00	FINISH PLAN AND SCHEDULE
A-900	.00	DOOR TYPES, FRAME DETAILS, SCHEDULE & BORROWED LIGHT DETAILS, SCHEDULE
VENDOR		
V-101	.00	GE MRI-C1
V-102	.00	GE MR-C2
V-103	.00	GE MR-A1
V-104	.00	GE MR-A2
V-105	.00	GE MR-A3
V-106	.00	GE MRI-A4
V-107	.00	GE MR-A5
V-108	.00	GE MRI-A6
V-109	.00	GE MRI-A7
V-110	.00	GE MRI-A8
V-111	.00	GE MR-A9
V-112	.00	GE MRI-A10
V-113	.00	GE MRI-A11
V-114	.00	GE MR-S1
V-115	.00	GE MRI-S2
V-116	.00	GE MRI-S3
V-117	.00	GE MRI-M1
V-118	.00	GE MR-M2
V-119	.00	GE MRI-M3
V-120	.00	GE MRI-M4
V-121	.00	GE MRI-M5
V-122	.00	GE MR-E1
V-123	.00	GE MR-E2
V-124	.00	GE MRI-E3
V-125	.00	GE MR-E4
V-126	.00	GE MRI-E5
V-127	.00	GE MR-E6
MECHANICAL		
M-101	.00	DEMOLITION PART PLAN, HVAC PIPING AND DUCTWORK
M-201	.00	FIRST FLOOR HVAC PART PLAN, DUCTWORK
M-202	.00	2ND FL AND ROOF HVAC PART PLAN PIPING AND CRYOGENIC VENT
M-001	.00	MECHANICAL SYMBOL LIST, NOTES, AND ABBREVIATIONS
ELECTRICAL		
E-001	.00	ELECTRICAL COVER SHEET
E-002	.00	ELECTRICAL SPECIFICATION SHEET
E-003	.00	ELECTRICAL NOTES
E-101	.00	LEVEL 1 POWER DEMOLITION PART PLAN
E-102	.00	LEVEL 1 LIGHTING DEMOLITION PART PLAN
E-201	.00	LEVEL 1 POWER PART PLAN
E-202	.00	ROOF LEVEL POWER PART PLAN
E-301	.00	LEVEL 1 LIGHTING PART PLAN
E-401	.00	ELECTRICAL RISER DIAGRAM
E-501	.00	ELECTRICAL SCHEDULES
E-601	.00	ELECTRICAL DETAILS
E-602	.00	ELECTRICAL DETAILS
PLUMBING		
P-001	.00	PLUMBING NOTES, SYMBOLS, SCHEDULES & DETAILS
P-002	.00	PLUMBING SPECIFICATIONS
P-101	.00	PLUMBING DEMOLITION PLAN
P-201	.00	PLUMBING PLANS
FIRE ALARM		
FA-001	.00	FIRE ALARM COVER SHEET
FA-101	.00	LEVEL 1 FIRE ALARM DEMOLITION PART PLAN
FA-301	.00	LEVEL 1 FIRE ALARM PART PLAN
FIRE PROTECTION		
SP-001	.00	SPRINKLER NOTES, SYMBOLS, SCHEDULES & DETAILS
SP-002	.00	SPRINKLER SPECIFICATIONS
SP-101	.00	SPRINKLER DEMOLITION PLAN
SP-201	.00	SPRINKLER PLAN

Architect of Record:

ARRAY

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OWNER:

COLUMBIA DOCTOR'S  
TARRYTOWN

PROJECT:

NEW MRI

155 WHITE PLAINS ROAD  
TARRYTOWN, NY 10591

W

E

W - WEST BUILDING

E - EAST BUILDING

TRUE NORTH

PROJECT NORTH

KEY PLAN

SHEET TITLE:

CODE REQUIREMENTS,  
SYMBOLS LEGEND,  
FLOOD MAP DATA AND  
GENERAL NOTES

SEAL:

DATE: 06/18/2021  
CON/REF No.  
CONTRACT No.  
SCALE: AS NOTED  
PROJECT No. 6109  
CHECKED: CH  
DRAWN: KU

SHEET NO.

G-001.00

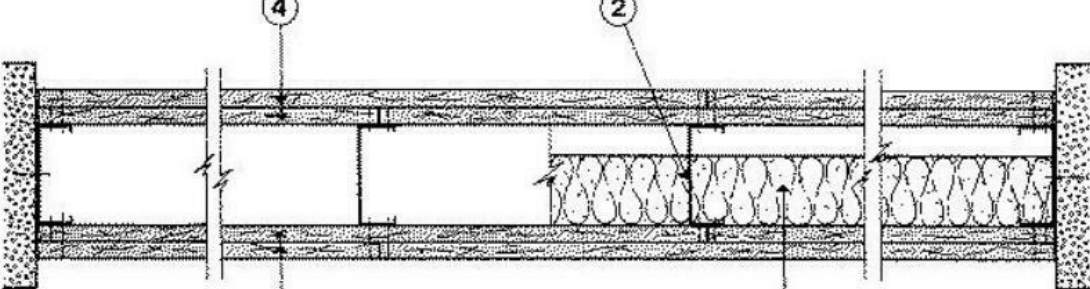
DWG OF 47

CD Submission 06/18/2021

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2/1/2018	BUXUJ411 - Fire-resistance Ratings - ANSUL 263	2/1/2018	BUXUJ411 - Fire-resistance Ratings - ANSUL 263	2/1/2018	BUXUJ411 - Fire-resistance Ratings - ANSUL 263	2/1/2018	BUXUJ411 - Fire-resistance Ratings - ANSUL 263
<div><div>UL</div><div>ONLINE CERTIFICATIONS DIRECTORY</div></div>		<div><div>MARINO/WARE, DIV OF WARE INDUSTRIES INC</div><div>— Viper20™ Track</div></div>		<div><div>TELLING INDUSTRIES L L C</div><div>— Viper20™ Track</div></div>		<div><div>CLARKDIETRIC BUILDING SYSTEMS</div><div>— CD ProSTUD</div></div>	
<div><div>Design No. U411</div><div>BUXUJ411</div><div>Fire-resistance Ratings - ANST/UL 263</div></div>		<div><div>FUSION BUILDING PRODUCTS</div><div>— Viper20™ Track</div></div>		<div><div>BAILEY METAL PRODUCTS LTD</div><div>— Type PLATINUM PLUS</div></div>		<div><div>MBA METAL FRAMING</div><div>— ProSTUD</div></div>	
<div><div>Design/System/Construction/Assembly Usage Disclaimer</div><div><ul style="list-style-type: none"><li>Authorities having jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, systems, devices and materials.</li><li>Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.</li><li>When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer for the design. Users of the resistance assemblies are advised to consult the general guidance information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.</li><li>Only products which bear UL's Mark are considered Certified.</li></ul></div></div>		<div><div>QUAL RUN BUILDING MATERIALS INC</div><div>— Type SUPREME Framing System</div></div>		<div><div>SCAFCO STEEL STUD MANUFACTURING CO</div><div>— Type SUPREME Framing System</div></div>		<div><div>STEEL INVESTMENT GROUP L L C</div><div>— AlphaTRAK</div></div>	
<div><div>BUXU - Fire Resistance Ratings - ANSI/UL 263</div><div>BUXUV - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada</div><div><div>See General Information for Fire-Resistance Ratings - ANSI/UL 263</div><div>See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada</div></div></div>		<div><div>UNITED METAL PRODUCTS INC</div><div>— Type SUPREME Framing System</div></div>		<div><div>16, Framing Members* — Floor and Ceiling Runners</div><div>— (Not Shown) — As an alternate to Item 1 - For use with Item 2C, channel shaped, min 2x12 in, deep, fabricated from min 0.018 in, thick galv steel, attached to floor and ceiling with fasteners spaced max 24 in, OC, max.</div></div>		<div><div>16, Framing Members* — Floor and Ceiling Runners</div><div>— (Not Shown) — As an alternate to Item 1 - For use with Item 2C, channel shaped, min 2x12 in, deep, fabricated from min 0.018 in, thick galv steel, attached to floor and ceiling with fasteners spaced max 24 in, OC, max.</div></div>	
<div><div>Design No. U411</div><div>January 25, 2018</div><div>Nonbearing Wall Rating = 2 Hr.</div><div>* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.</div></div>		<div><div>CLARKDIETRIC BUILDING SYSTEMS</div><div>— CD ProTRAK</div></div>		<div><div>16, Framing Members* — Floor and Ceiling Runners</div><div>— (Not Shown) — As an alternate to Item 1 - For use with Item 2C, channel shaped, min 2x12 in, deep, fabricated from min 0.018 in, thick galv steel, attached to floor and ceiling with fasteners spaced max 24 in, OC, max.</div></div>		<div><div>16, Framing Members* — Floor and Ceiling Runners</div><div>— (Not Shown) — As an alternate to Item 1 - For use with Item 2C, channel shaped, min 2x12 in, deep, fabricated from min 0.018 in, thick galv steel, attached to floor and ceiling with fasteners spaced max 24 in, OC, max.</div></div>	
<div><div></div></div>		<div><div>16, Framing Members* — Floor and Ceiling Runners</div><div>— (Not Shown) — As an alternate to Item 1 - For use with Item 2C, channel shaped, min 2x12 in, deep, fabricated from min 0.018 in, thick galv steel, attached to floor and ceiling with fasteners spaced max 24 in, OC, max.</div></div>		<div><div>16, Framing Members* — Floor and Ceiling Runners</div><div>— (Not Shown) — As an alternate to Item 1 - For use with Item 2C, channel shaped, min 2x12 in, deep, fabricated from min 0.018 in, thick galv steel, attached to floor and ceiling with fasteners spaced max 24 in, OC, max.</div></div>		<div><div>16, Framing Members* — Floor and Ceiling Runners</div><div>— (Not Shown) — As an alternate to Item 1 - For use with Item 2C, channel shaped, min 2x12 in, deep, fabricated from min 0.018 in, thick galv steel, attached to floor and ceiling with fasteners spaced max 24 in, OC, max.</div></div>	
<div><div>1, Floor and Ceiling Runner</div><div>— (Not Shown) — Min. 25 MSG galv steel, 1 in, return legs, 2x12 in, deep (min), attached to floor and ceiling with fasteners 24 in, OC, max.</div></div>		<div><div>16, Framing Members* — Floor and Ceiling Runners</div><div>— (Not Shown) — As an alternate to Item 1 - For use with Item 2C, channel shaped, min 2x12 in, deep, fabricated from min 0.018 in, thick galv steel, attached to floor and ceiling with fasteners spaced max 24 in, OC, max.</div></div>		<div><div>16, Framing Members* — Floor and Ceiling Runners</div><div>— (Not Shown) — As an alternate to Item 1 - For use with Item 2C, channel shaped, min 2x12 in, deep, fabricated from min 0.018 in, thick galv steel, attached to floor and ceiling with fasteners spaced max 24 in, OC, max.</div></div>		<div><div>16, Framing Members* — Floor and Ceiling Runners</div><div>— (Not Shown) — As an alternate to Item 1 - For use with Item 2C, channel shaped, min 2x12 in, deep, fabricated from min 0.018 in, thick galv steel, attached to floor and ceiling with fasteners spaced max 24 in, OC, max.</div></div>	
<div><div>1A, Framing Members* — Floor and Ceiling Runners</div><div>— (Not Shown) — As an alternate to Item 1 - For use with Item 2A, channel shaped, min 2x12 in, deep, attached to floor and ceiling with fasteners 24 in, OC, max.</div></div>		<div><div>1A, Framing Members* — Floor and Ceiling Runners</div><div>— (Not Shown) — As an alternate to Item 1 - For use with Item 2A, channel shaped, min 2x12 in, deep, attached to floor and ceiling with fasteners 24 in, OC, max.</div></div>		<div><div>1A, Framing Members* — Floor and Ceiling Runners</div><div>— (Not Shown) — As an alternate to Item 1 - For use with Item 2A, channel shaped, min 2x12 in, deep, attached to floor and ceiling with fasteners 24 in, OC, max.</div></div>		<div><div>1A, Framing Members* — Floor and Ceiling Runners</div><div>— (Not Shown) — As an alternate to Item 1 - For use with Item 2A, channel shaped, min 2x12 in, deep, attached to floor and ceiling with fasteners 24 in, OC, max.</div></div>	
<div><div>ALLSTEEL &amp; GYPSUM PRODUCTS INC</div><div>— Type SUPREME Framing System</div></div>		<div><div>ALLSTEEL &amp; GYPSUM PRODUCTS INC</div><div>— Type SUPREME Framing System</div></div>		<div><div>ALLSTEEL &amp; GYPSUM PRODUCTS INC</div><div>— Type SUPREME Framing System</div></div>		<div><div>ALLSTEEL &amp; GYPSUM PRODUCTS INC</div><div>— Type SUPREME Framing System</div></div>	
<div><div>CALIFORNIA EXPANDED METAL PRODUCTS CO</div><div>— Viper20™ Track</div></div>		<div><div>CALIFORNIA EXPANDED METAL PRODUCTS CO</div><div>— Viper20™ Track</div></div>		<div><div>CALIFORNIA EXPANDED METAL PRODUCTS CO</div><div>— Viper20™ Track</div></div>		<div><div>CALIFORNIA EXPANDED METAL PRODUCTS CO</div><div>— Viper20™ Track</div></div>	
<div><div>CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV</div><div>— Type SUPREME Framing System</div></div>		<div><div>CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV</div><div>— Type SUPREME Framing System</div></div>		<div><div>CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV</div><div>— Type SUPREME Framing System</div></div>		<div><div>CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV</div><div>— Type SUPREME Framing System</div></div>	
<div><div><a href="http://database.ul.com/cgi-bin/XYVtemplateLBEXT/FRAME/showpage.htm?Frame=BUXUJ411&amp;conshortID=Fire-resistance-Ratings++ANSUL+...">http://database.ul.com/cgi-bin/XYVtemplateLBEXT/FRAME/showpage.htm?Frame=BUXUJ411&amp;conshortID=Fire-resistance-Ratings++ANSUL+...</a></div></div>		<div><div><a href="http://database.ul.com/cgi-bin/XYVtemplateLBEXT/FRAME/showpage.htm?Frame=BUXUJ411&amp;conshortID=Fire-resistance-Ratings++ANSUL+...">http://database.ul.com/cgi-bin/XYVtemplateLBEXT/FRAME/showpage.htm?Frame=BUXUJ411&amp;conshortID=Fire-resistance-Ratings++ANSUL+...</a></div></div>		<div><div><a href="http://database.ul.com/cgi-bin/XYVtemplateLBEXT/FRAME/showpage.htm?Frame=BUXUJ411&amp;conshortID=Fire-resistance-Ratings++ANSUL+...">http://database.ul.com/cgi-bin/XYVtemplateLBEXT/FRAME/showpage.htm?Frame=BUXUJ411&amp;conshortID=Fire-resistance-Ratings++ANSUL+...</a></div></div>		<div><div><a href="http://database.ul.com/cgi-bin/XYVtemplateLBEXT/FRAME/showpage.htm?Frame=BUXUJ411&amp;conshortID=Fire-resistance-Ratings++ANSUL+...">http://database.ul.com/cgi-bin/XYVtemplateLBEXT/FRAME/showpage.htm?Frame=BUXUJ411&amp;conshortID=Fire-resistance-Ratings++ANSUL+...</a></div></div>	

2/1/2018	BUXUJ411 - Fire-resistance Ratings - ANSUL 263	2/1/2018	BUXUJ411 - Fire-resistance Ratings - ANSUL 263	2/1/2018	BUXUJ411 - Fire-resistance Ratings - ANSUL 263	2/1/2018	BUXUJ411 - Fire-resistance Ratings - ANSUL 263
<div><div>USG MEXICO S A DE C V</div><div>— Type SHX</div></div>		<div><div>USG MEXICO S A DE C V</div><div>— Type SHX</div></div>		<div><div>USG MEXICO S A DE C V</div><div>— Type SHX</div></div>		<div><div>USG MEXICO S A DE C V</div><div>— Type SHX</div></div>	
<div><div>4C, Gypsum Board*</div><div>— (As an alternate to Items 4, 4A and 4B) — Two layers of 5/8 in, thick gypsum board applied horizontally or vertically. Inner layer attached to studs with No. 6, 1 in, long Type S hook head screws spaced 16 in, OC along the top and bottom tracks starting 2 in, from the vertical edges. Inner layer screws spaced 24 in, OC along the studs, starting 2 in, from the top and bottom of the studs and starting 1x1/4 in, from the horizontal joints when installed horizontally. Outer layer attached to studs with 1x5/8 in, long Type S hook head screws spaced 16 in, OC along the top and bottom tracks starting 1x3/4 in, from the vertical edges. Outer layer screws spaced 16 in, OC along the studs, starting 1x1/4 in, and then 8 in, from the top and bottom of the studs and starting 1x1/4 in, and then 8 in, from the horizontal joints when installed horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent bays staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent bays staggered a min of 12 in. When outer layers are installed horizontally, wood or cement, dry or premixed joint compound shall be applied in all joints of outer layer panels. Nom 3/32 in, thick gypsum veneer plaster may be applied to the entire surface of classified veneer baseboard, joints reinforced.</div></div>		<div><div>4C, Gypsum Board*</div><div>— (As an alternate to Items 4, 4A and 4B) — Two layers of 5/8 in, thick gypsum board applied horizontally or vertically. Inner layer attached to studs with No. 6, 1 in, long Type S hook head screws spaced 16 in, OC along the top and bottom tracks starting 2 in, from the vertical edges. 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<div><div>SAINT-GOBAIN GYPROC MIDDLE EAST FZE</div><div>— Type Gyproc Firestop, Gyproc Firestop MR, Gyproc Firestop MTECH, Gyproc Firestop ACTIVAir, Gyproc Firestop MR ACTIVAir, Gyproc Firestop MTECH ACTIVAir, Gyproc Duraline, Gyproc Duraline MR, Gyproc Duraline MTECH ACTIVAir</div></div>		<div><div>SAINT-GOBAIN GYPROC MIDDLE EAST FZE</div><div>— Type Gyproc Firestop, Gyproc Firestop MR, Gyproc Firestop MTECH, Gyproc Firestop ACTIVAir, Gyproc Firestop MR ACTIVAir, Gyproc Firestop MTECH ACTIVAir, Gyproc Duraline, Gyproc Duraline MR, Gyproc Duraline MTECH ACTIVAir</div></div>		<div><div>SAINT-GOBAIN GYPROC MIDDLE EAST FZE</div><div>— Type Gyproc Firestop, Gyproc Firestop MR, Gyproc Firestop MTECH, Gyproc Firestop ACTIVAir, Gyproc Firestop MR ACTIVAir, Gyproc Firestop MTECH ACTIVAir, Gyproc Duraline, Gyproc Duraline MR, Gyproc Duraline MTECH ACTIVAir</div></div>		<div><div>SAINT-GOBAIN GYPROC MIDDLE EAST FZE</div><div>— Type Gyproc Firestop, Gyproc Firestop MR, Gyproc Firestop MTECH, Gyproc Firestop ACTIVAir, Gyproc Firestop MR ACTIVAir, Gyproc Firestop MTECH ACTIVAir, Gyproc Duraline, Gyproc Duraline MR, Gyproc Duraline MTECH ACTIVAir</div></div>	
<div><div>THAI GYPSUM PRODUCTS PCL</div><div>— Type C or Type X</div></div>		<div><div>THAI GYPSUM PRODUCTS PCL</div><div>— Type C or Type X</div></div>		<div><div>THAI GYPSUM PRODUCTS PCL</div><div>— Type C or Type X</div></div>		<div><div>THAI GYPSUM PRODUCTS PCL</div><div>— Type C or Type X</div></div>	
<div><div>UNITED STATES GYPSUM CO</div><div>— Type AR, C, PRX4G, IPNA1, IPNA2, IPNAR, SCX, SHX, ULIX, USGX, WRC or WRX</div></div>		<div><div>UNITED STATES GYPSUM CO</div><div>— Type AR, C, PRX4G, IPNA1, IPNA2, IPNAR, SCX, SHX, ULIX, USGX, WRC or WRX</div></div>		<div><div>UNITED STATES GYPSUM CO</div><div>— Type AR, C, PRX4G, IPNA1, IPNA2, IPNAR, SCX, SHX, ULIX, USGX, WRC or WRX</div></div>		<div><div>UNITED STATES GYPSUM CO</div><div>— Type AR, C, PRX4G, IPNA1, IPNA2, IPNAR, SCX, SHX, ULIX, USGX, WRC or WRX</div></div>	
<div><div>USG BORAL DRYWALL SPZ LLC</div><div>— Type C, SCX, SOX, USGX</div></div>		<div><div>USG BORAL DRYWALL SPZ LLC</div><div>— Type C, SCX, SOX, USGX</div></div>		<div><div>USG BORAL DRYWALL SPZ LLC</div><div>— Type C, SCX, SOX, USGX</div></div>		<div><div>USG BORAL DRYWALL SPZ LLC</div><div>— Type C, SCX, SOX, USGX</div></div>	
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<div><div>4A, Gypsum Board*</div><div>— (As an alternate to Item 4) — Nom 3/4 in, thick, installed as described in Item 4 with 1x1/4 in, long Type S screws for inner layer and 2x1/4 in, long Type S screws for outer layer.</div></div>		<div><div>4A, Gypsum Board*</div><div>— (As an alternate to Item 4) — Nom 3/4 in, thick, installed as described in Item 4 with 1x1/4 in, long Type S screws for inner layer and 2x1/4 in, long Type S screws for outer layer.</div></div>		<div><div>4A, Gypsum Board*</div><div>— (As an alternate to Item 4) — Nom 3/4 in, thick, installed as described in Item 4 with 1x1/4 in, long Type S screws for inner layer and 2x1/4 in, long Type S screws for outer layer.</div></div>		<div><div>4A, Gypsum Board*</div><div>— (As an alternate to Item 4) — Nom 3/4 in, thick, installed as described in Item 4 with 1x1/4 in, long Type S screws for inner layer and 2x1/4 in, long Type S screws for outer layer.</div></div>	
<div><div>CGC INC</div><div>— Types AR, IPNAR</div></div>		<div><div>CGC INC</div><div>— Types AR, IPNAR</div></div>		<div><div>CGC INC</div><div>— Types AR, IPNAR</div></div>		<div><div>CGC INC</div><div>— Types AR, IPNAR</div></div>	
<div><div>UNITED STATES GYPSUM CO</div><div>— Types AR, IPNAR</div></div>		<div><div>UNITED STATES GYPSUM CO</div><div>— Types AR, IPNAR</div></div>		<div><div>UNITED STATES GYPSUM CO</div><div>— Types AR, IPNAR</div></div>		<div><div>UNITED STATES GYPSUM CO</div><div>— Types AR, IPNAR</div></div>	
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<div><div>4B, Gypsum Board*</div><div>— (As an alternate to Items 4 and 4A) — 5/8 in, thick, 24 to 54 in, wide, applied horizontally as the outer layer to one side of the assembly. Horizontal joints need not be backed by steel framing. Secured as described in Item 4 for the direct attached system. When used in widths other than 48 in, gypsum panels to be installed horizontally.</div></div>		<div><div>4B, Gypsum Board*</div><div>— (As an alternate to Items 4 and 4A) — 5/8 in, thick, 24 to 54 in, wide, applied horizontally as the outer layer to one side of the assembly. Horizontal joints need not be backed by steel framing. Secured as described in Item 4 for the direct attached system. When used in widths other than 48 in, gypsum panels to be installed horizontally.</div></div>		<div><div>4B, Gypsum Board*</div><div>— (As an alternate to Items 4 and 4A) — 5/8 in, thick, 24 to 54 in, wide, applied horizontally as the outer layer to one side of the assembly. Horizontal joints need not be backed by steel framing. Secured as described in Item 4 for the direct attached system. When used in widths other than 48 in, gypsum panels to be installed horizontally.</div></div>		<div><div>4B, Gypsum Board*</div><div>— (As an alternate to Items 4 and 4A) — 5/8 in, thick, 24 to 54 in, wide, applied horizontally as the outer layer to one side of the assembly. Horizontal joints need not be backed by steel framing. Secured as described in Item 4 for the direct attached system. When used in widths other than 48 in, gypsum panels to be installed horizontally.</div></div>	
<div><div>CERTANTEED GYPSUM INC</div><div>— Type X, Type C</div></div>		<div><div>CERTANTEED GYPSUM INC</div><div>— Type X, Type C</div></div>		<div><div>CERTANTEED GYPSUM INC</div><div>— Type X, Type C</div></div>		<div><div>CERTANTEED GYPSUM INC</div><div>— Type X, Type C</div></div>	
<div><div>CGC INC</div><div>— Type SHX</div></div>		<div><div>CGC INC</div><div>— Type SHX</div></div>		<div><div>CGC INC</div><div>— Type SHX</div></div>		<div><div>CGC INC</div><div>— Type SHX</div></div>	
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<div><div>UNITED STATES GYPSUM CO</div><div>— Type SHX, PRX4G</div></div>		<div><div>UNITED STATES GYPSUM CO</div><div>— Type SHX, PRX4G</div></div>		<div><div>UNITED STATES GYPSUM CO</div><div>— Type SHX, PRX4G</div></div>		<div><div>UNITED STATES GYPSUM CO</div><div>— Type SHX, PRX4G</div></div>	
<div><div><a href="http://database.ul.com/cgi-bin/XYVtemplateLBEXT/FRAME/showpage.htm?Frame=BUXUJ411&amp;conshortID=Fire-resistance-Ratings++ANSUL+...">http://database.ul.com/cgi-bin/XYVtemplateLBEXT/FRAME/showpage.htm?Frame=BUXUJ411&amp;conshortID=Fire-resistance-Ratings++ANSUL+...</a></div></div>		<div><div><a href="http://database.ul.com/cgi-bin/XYVtemplateLBEXT/FRAME/showpage.htm?Frame=BUXUJ411&amp;conshortID=Fire-resistance-Ratings++ANSUL+...">http://database.ul.com/cgi-bin/XYVtemplateLBEXT/FRAME/showpage.htm?Frame=BUXUJ411&amp;conshortID=Fire-resistance-Ratings++ANSUL+...</a></div></div>		<div><div><a href="http://database.ul.com/cgi-bin/XYVtemplateLBEXT/FRAME/showpage.htm?Frame=BUXUJ411&amp;conshortID=Fire-resistance-Ratings++ANSUL+...">http://database.ul.com/cgi-bin/XYVtemplateLBEXT/FRAME/showpage.htm?Frame=BUXUJ411&amp;conshortID=Fire-resistance-Ratings++ANSUL+...</a></div></div>		<div><div><a href="http://database.ul.com/cgi-bin/XYVtemplateLBEXT/FRAME/showpage.htm?Frame=BUXUJ411&amp;conshortID=Fire-resistance-Ratings++ANSUL+...">http://database.ul.com/cgi-bin/XYVtemplateLBEXT/FRAME/showpage.htm?Frame=BUXUJ411&amp;conshortID=Fire-resistance-Ratings++ANSUL+...</a></div></div>	

2/1/2018

BUXUJ411 - Fire-resistance Ratings - ANSUL 263

1G. Framing Members – Floor and Ceiling Runners – (Not Shown) – As an alternate to Item 1 - For use with Item 2b, channel shaped, min 2x12 in, wide flange/min 24 in, thick flange/min 24 in, OC, max.

TELLING INDUSTRIES L L C – Viper200™ Track

11L. Framing Members – Floor and Ceiling Runners – (Not Shown) – As an alternate to Item 1 - For use with Item 2b, channel shaped, attached to floor and ceiling with fasteners 24 in, OC, max.

BAILEY MATERIAL PRODUCTS LTD – TYPE PLATING PLUS

11L. Framing Members – Floor and Ceiling Runners – (Not Shown) – As an alternate to Item 1 - For use with Item 2b, channel shaped, min 2x12 in, wide flange/min 24 in, thick flange/min 24 in, OC, max.

STEEL INVESTMENT GROUP L L C – AlphaTrack

11L. Framing Members – Floor and Ceiling Runners – (Not Shown) – As an alternate to Item 1 - For use with Item 2L, Channel shaped, attached to floor and ceiling with fasteners 24 in, OC, max.

OEG BUILDING SYSTEMS – OEG Track

11L. Framing Members – Floor and Ceiling Runners – (Not Shown) – As an alternate to Item 1 - For use with Item 2b, channel shaped, min 2x12 in, wide flange/min 24 in, thick flange/min 24 in, OC, max.

CALIFORNIA EXPANDED METAL PRODUCTS CO – Viper X Track

2. Steel Studs – Min 2x12 in, deep, formed of min 25 MSG galv steel max spacing 24 in, OC, Studs to be cut 3/4 in. less than assembly height.

2. Framing Members – Steel Studs – As an alternate to Item 2, for use with Item 1G, channel shaped studs, min 2x12 in, deep, spaced a max of 24 in, OC, Studs to be cut 3/4 in. less than assembly height.

ALLSTATE & GYPSUM PRODUCTS INC – Type SUPREME Framing System

CALIFORNIA EXPANDED METAL PRODUCTS CO – Viper200™

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV – Type SUPREME Framing System

MARINO VARGAS, DIV OF WARE INDUSTRIES INC – Viper200™

FUSION BUILDING PRODUCTS – Viper200™

IMPERIAL MANUFACTURING GROUP INC – Viper200™

QUAIL RUN BUILDING MATERIALS INC – Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO – Type SUPREME Framing System

SCOTL CONSTRUCTION SYSTEMS INC – Type SUPREME Framing System

UNITED METAL PRODUCTS INC – Type SUPREME Framing System

2b. Steel Studs – (As an alternate to Item 2, for use with Item 4D, 4K, and 4L) – Channel shaped, fabricated from 16, 18GSG corrosion-resistant galv steel, min 2x12 in, deep, spaced a max of 24 in, OC, Studs to be cut 3/4 in. less than assembly height.

<http://database.com/gbcom/XYV/mfg/US/ULX/BBE/XT/FRAM/sho/pn/Frame/BUXUJ411&confidant/Pre-Resistance-Ratings-ANSUL...>

2/1/2018

BUXUJ411 - Fire-resistance Ratings - ANSUL 263

CGC INC – Type ULX

UNITED STATES GYPSUM CO – Type ULX

USG MEXICO S A DE C V – Type ULX

4L. Gypsum Board – (As an alternate to Item 4 when used as the base layer for one or both sides of wall. For direct use as one side of stud studs, gypsum board applied vertically, inner layer attached to studs with min 3x5 1/8 in, long bogg head, self-drilling screws spaced 13x16 in, OC in the field and 13x14 in, OC in the perimeter, with the first screw 2 in. from the edge. Outer layer attached to the studs over the inner layer with min 3x5 1/8 in, long bogg head, self-drilling screws spaced 13x16 in, OC in the field and 7x7/8 in, OC in the perimeter, with the first screw 3/4 in. from the edge. Outer layer screws staggered from inner layer screws, vertical joints staggered over studs and staggered one side cavity on opposite sides of studs. Vertical joints in adjacent layer staggered one side cavity, self-drilling fiberglass (GFC) mesh (max 1/8 in, mesh 2 in wide) applied over all joints of outer layer panels. Dry or premixed joint compound applied in two coats to joints over mesh tape and screw heads of outer layer.

GYPSERNA CO LLC – Types H97H, FM, TFF

4L. Gypsum Board – (As an alternate to Items 4 through 4K) – Two layers of 5/8 in, thick gypsum board applied vertically or horizontally, inner layer attached to studs with #6 x 1 in, long bogg head screws spaced 12 in, OC along the top and bottom tracks and 16 in, OC in the field and along the vertical edges. Outer layer attached to studs with #6 x 1 in, long bogg head screws spaced 12 in, OC in the field and along the vertical edges. Outer layer tracks and corners with 1x4 in, long bogg head screws spaced 12 in, OC in the field and along the vertical edges. Vertical joints are centered over studs and staggered between layers and on opposite sides of the horizontal joints. Vertical joints on the face layer are staggered 12 in. from the base keys. Horizontal joints need not be backed by steel framing.

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C – Type LGFC4, LGFC5A, LGFC4-C, LGFC-WD

4L. Wall and Partition Packings and Accessories – (As an alternate to Items 4 through 4L) – Nominal 5/8 in, thick, 4 in wide panels, applied vertically and secured as described in Item 4.

PARCO BUILDING PRODUCTS L L C, DBA PARCO GYPSUM – Type QuikTrack 527.

4L. Gypsum Board – (As an alternate to Item 4 through 4K) – For direct application to studs only, 4x8 ft. panels, min 5/8 in, thick gypsum board applied vertically or horizontally, when applied horizontally, base layer secured to studs with min 3x5 1/8 in, long bogg head screws spaced 12 in, OC in the field and 13x14 in, OC in the perimeter, with the first screw 2 in. from the edge. Second layer secured with joints offset one stud cavity and secured with 1x4 in, long bogg head screws spaced 12 in, OC. Third layer installed with joints in line with second layer and secured with 1x4 in, long bogg head screws spaced 12 in, OC. Fourth layer secured with joints offset one stud cavity and secured with 1x4 in, long bogg head screws spaced 12 in, OC. Third layer installed with joints in line with base layer and secured with 1x2 in, long bogg head screws spaced 12 in, OC. Fourth layer secured with joints offset one stud cavity and secured with 1x4 in, long bogg head screws spaced 12 in, OC. Vertical joints staggered over studs and staggered one side cavity and secured with 1x4 in, long bogg head screws spaced 8 in, OC along vertical edges and 12 in, OC in the field. For all layers, joints are offset 4 in. from previous layer joints.

NATIONAL GYPSUM CO – Type FSW

5. Lead Batten Strips – (Not Shown, For Use With Item 4D) – Lead batten strips, min 1x12 in, wide, max 10 lb hang with a max thickness of 1/16 in. Strips are secured on interior face of studs and attached from the exterior face of the stud with two 1 in, long Type S-21 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.99% meeting the Federal specification QQ-C-201, Grade “C”. Lead batten strips attached behind vertical joints of lead backed gypsum board (Item 4D) and optional at remaining stud locations. Batten behind vertical joints.

5A. Lead Batten Strips – (Not Shown, For use with Item 4K) – Lead batten strips, min 1x12 in, wide, max 10 lb hang with a max thickness of 1/16 in. Strips are secured on interior face of studs and attached from the exterior face of the stud with two 1 in, long Type S-21 pan head steel screws, one at the top of the strip and one with one min 1 in, long min 1 in





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MEP ENGINEER

LORING CONSULTING ENGINEERS, INC.  
360 WEST 31ST STREET  
NEW YORK, NY 10001  
PHONE: 646.674.6100

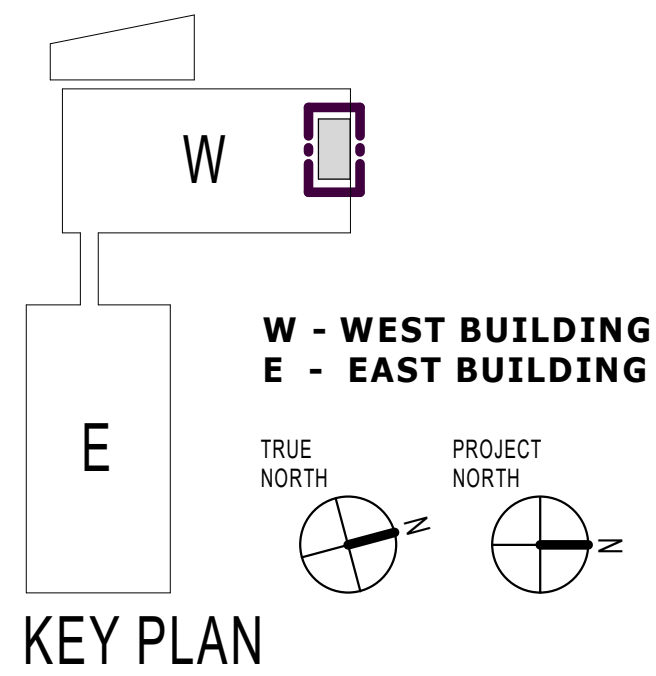
OWNER:

COLUMBIA DOCTOR'S  
TARRYTOWN

**PROJECT:**

## NEW MRI

155 WHITE PLAINS ROAD  
TARRYTOWN, NY 10591



NO.	DESCRIPTION	DATE
REVISIONS/ISSUES		

**SHEET TITLE:**  
**UL DETAILS**

**SEAL:**

DATE:06/18/2021  
CON/REF No.  
CONTRACT No.  
SCALE: AS NOTED  
PROJECT No. 6109  
CHECKED:CH  
DRAWN: KU

**SHEET NO.**

G-003.00

DWG OF 47

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<div>155 WHITE PLAINS ROAD TARRYTOWN, NY 10591</div>		
<div><div><div><b>W - WEST BUILDING</b> <b>E - EAST BUILDING</b></div><div><div><b>TRUE NORTH</b></div><div><b>PROJECT NORTH</b></div></div><div><b>KEY PLAN</b></div></div></div>		
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<b>SEAL:</b>	<div><b>DATE:</b> 06/18/2021 <b>CON/REF No.</b> <b>CONTRACT No.</b> <b>SCALE:</b> AS NOTED <b>PROJECT No.</b> 610 <b>CHECKED:</b> CH <b>DRAWN:</b> KU</div>	
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2

INFECTION CONTROL RISK MITIGATION RECOMMENDATIONS MATRIX OF PRECAUTIONS FOR CONSTRUCTION AND RENOVATION	
<u>Type of Construction / Project Activity Table</u>	
F	<b>TYPE A</b>  Inspection and Non-Invasive Activities  Includes, but is not limited to: <ul style="list-style-type: none"><li>- removal of ceiling tiles for visual inspection limited to 1 tile to 50 square feet</li><li>- painting (but not sanding), wall covering</li><li>- electrical trim work, minor plumbing, and activities which do not generate dust or require cutting of walls or access to ceilings other than for visual inspection</li></ul>
	<b>TYPE B</b>  Small scale, short duration activities which create minimal dust  Includes, but is not limited to: <ul style="list-style-type: none"><li>- installation of telephone and computer cabling</li><li>- access to chase spaces</li><li>- cutting of walls or ceiling where dust migration can be controlled</li></ul>
	<b>TYPE C</b>  Work that generates a moderate to high level of dust or requires demolition or removal of any fixed building components or assemblies  Includes, but is not limited to: <ul style="list-style-type: none"><li>- sanding of walls for painting or wall covering</li><li>- removal of floor coverings, ceiling tiles and casework</li><li>- new wall construction</li><li>- minor duct work or electrical work above ceilings</li><li>- major cabling activities</li><li>- any activity which cannot be completed within a single work shift</li></ul>
E	<b>TYPE D</b>  Major demolition and construction projects  Includes, but is not limited to: <ul style="list-style-type: none"><li>- activities which require consecutive work shifts</li><li>- requires heavy demolition or removal of a complete ceiling system</li><li>- new construction</li></ul>

Group 1 Low Risk	Group 2 Medium Risk	Group 3 High Risk	Group 4 Highest Risk
<ul style="list-style-type: none"><li>Office areas (non-clinical)</li></ul>	<ul style="list-style-type: none"><li>Cardiology</li><li>Echocardiology</li><li>Endoscopy-GI</li><li>Physical Therapy</li><li>Radiology/IR/IM</li><li>Nuclear Medicine</li><li>Respiratory Care (except bronchoscopy area)</li><li>Cafeteria</li><li>Outpatient areas-clinics and offices (exception: transplant and oncology)</li></ul>	<ul style="list-style-type: none"><li>Emergency Room</li><li>Post Anesthesia</li><li>Care Units</li><li>Labor and Delivery</li><li>Pediatrics</li><li>Admission/Discharge area</li><li>Pharmacy</li><li>Inpatient units (not otherwise specified) at all A&amp;EHN locations</li></ul>	<ul style="list-style-type: none"><li>All Operating Rooms including Labor and Delivery</li><li>Anesthesia and Pump areas</li><li>Central Equipment/Sterile Supply</li><li>Cardiac Catheterization and Angiography Areas</li><li>Interventional Radiology</li><li>Radiation Oncology</li><li>All Intensive Care Units</li><li>Newborn Nurseries, including NICU</li><li>Dialysis Unit</li><li>Oncology - inpatient &amp; outpatient</li><li>Transplant - inpatient &amp; outpatient</li><li>Pharmacy Administration</li><li>Negative Pressure Isolation Rooms/states (including bronchoscopy area)</li></ul>

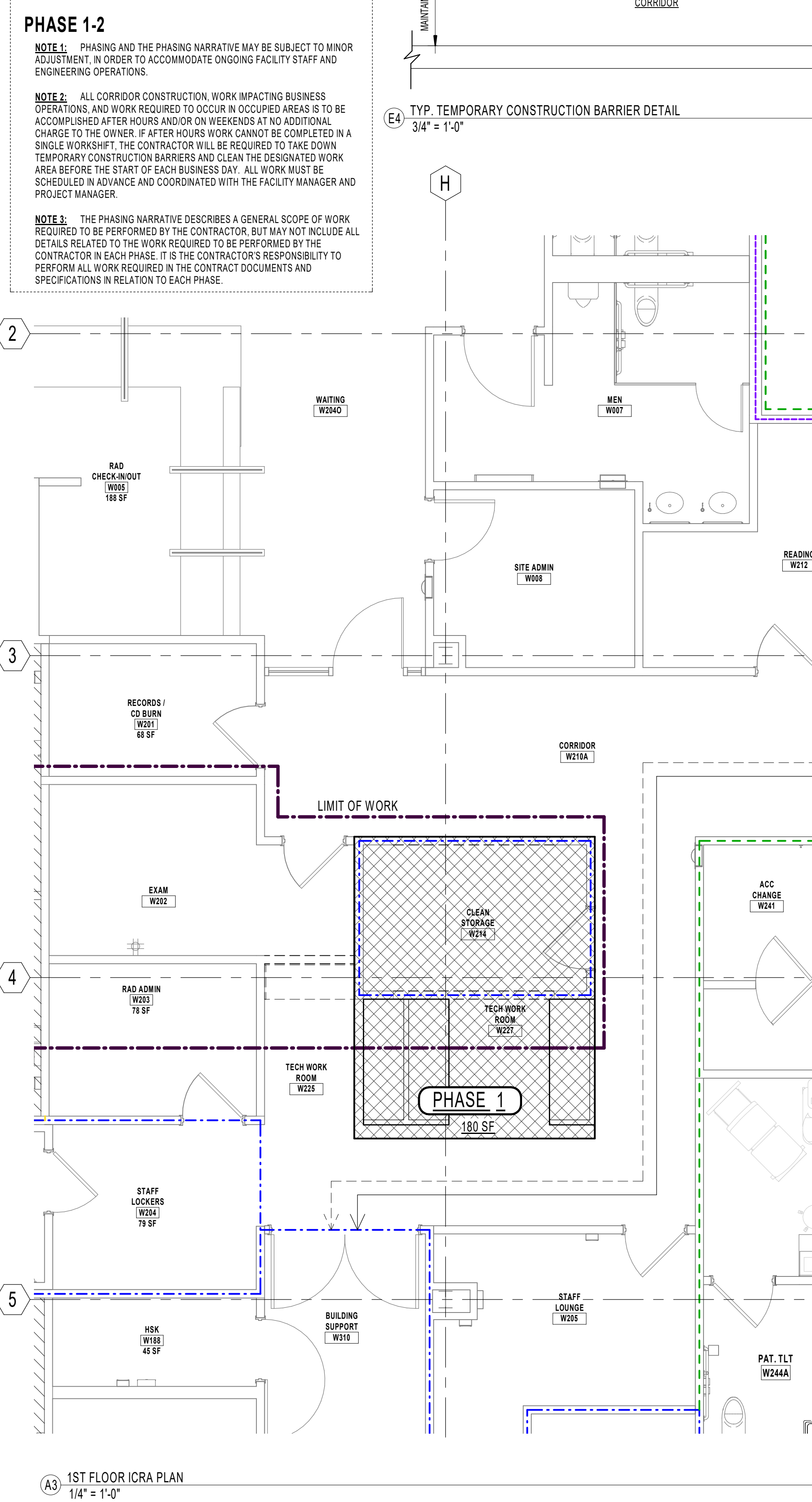
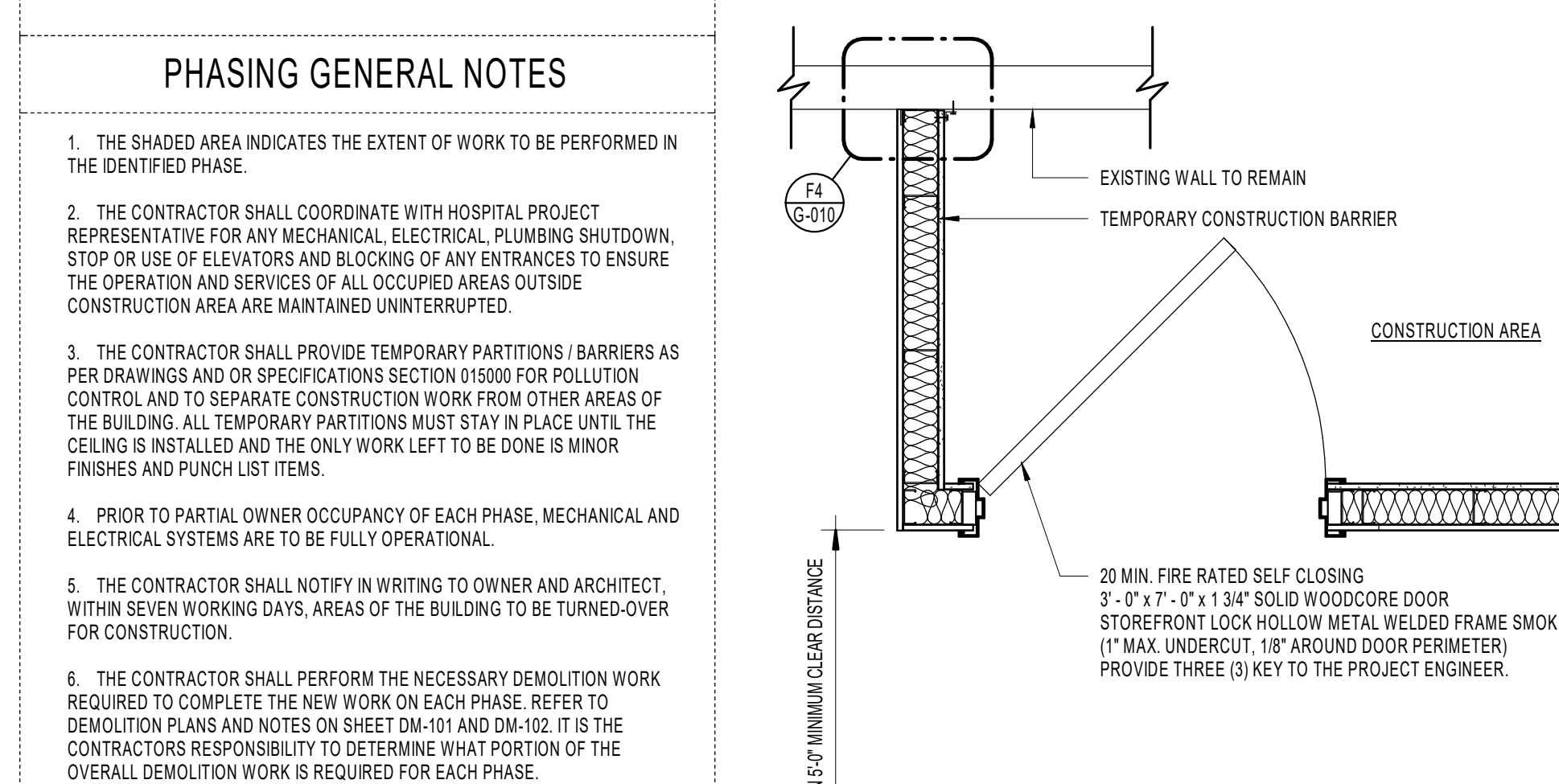
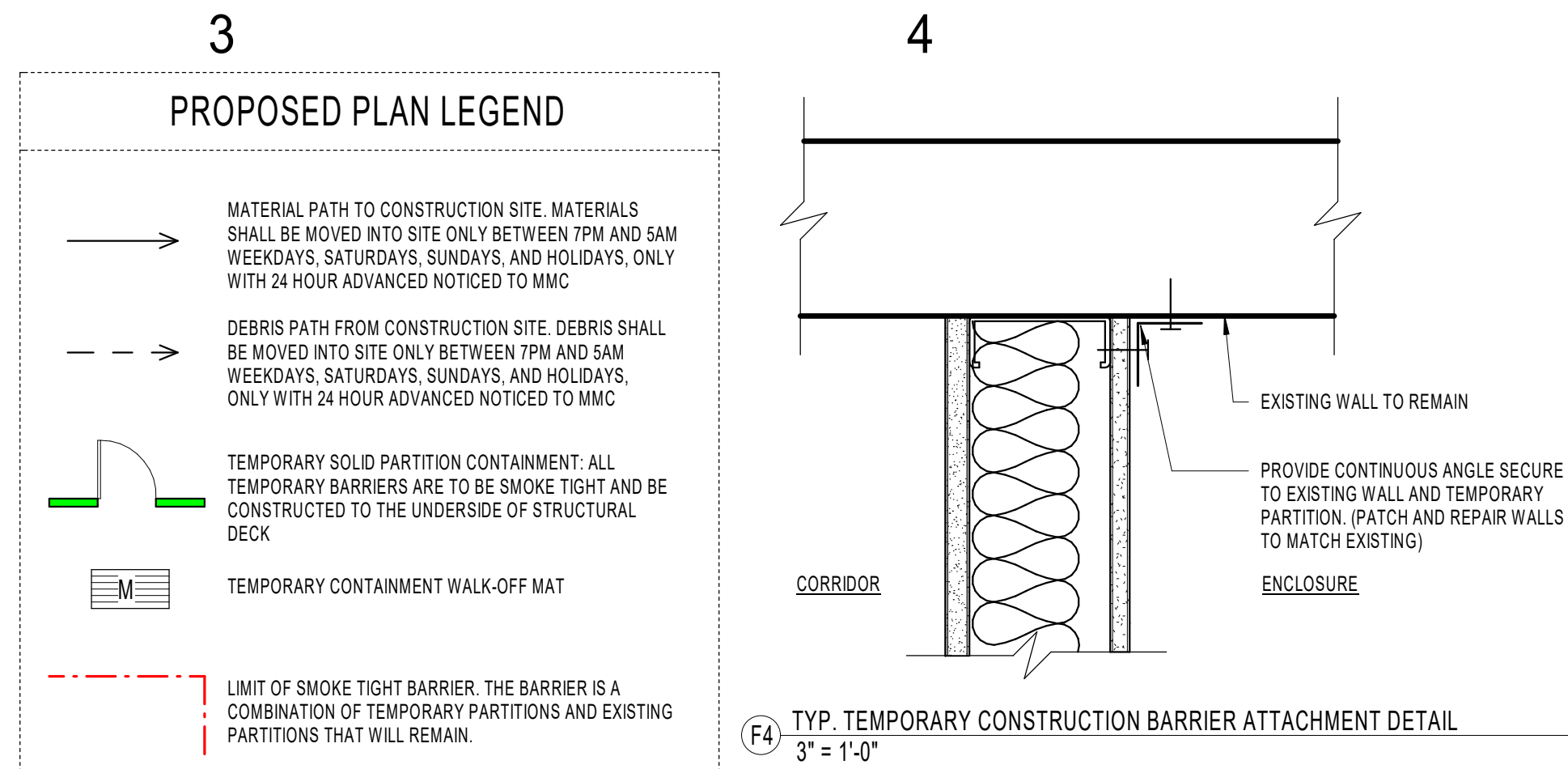
Infection Control Matrix - Class of Precautions: Construction Project by Patient Risk				
Construction Project Type				
Patient Risk Group	TYPE A	TYPE B	TYPE C	TYPE D
LOW Risk Group 1	I	II	II	III/IV
MEDIUM Risk Group 2	I	II	III	IV
HIGH Risk Group 3	I	III	III/IV	IV
HIGHEST Risk Group 4	III	III/IV	III/IV	IV

Note: Infection Control approval will be required when the Construction Activity and Risk Level indicate that Class III or Class IV control procedures are necessary.

It is the Contractor's Responsibility to provide the following Infection Control Precautions depending upon the Area Class Designation

C	CLASS I	During Construction Project	Upon Completion of Project
		<ol style="list-style-type: none"><li>Execute work by methods to minimize raising dust from construction operations.</li><li>Immediately replace a ceiling tile displaced for visual inspection.</li></ol>	<ol style="list-style-type: none"><li>Wipe surfaces to remove dust.</li></ol>
B	CLASS II	<ol style="list-style-type: none"><li>Includes all activities required by Class I</li><li>Provide active means to prevent airborne dust from dispersing into atmosphere.</li><li>Water mist work surfaces to control dust while cutting.</li><li>Seal unused doors with dust tape.</li><li>Block off and seal air vents.</li><li>Replace adhesive walk-off mats at entrance and exit of work area. Replace used mats in accordance with manufacturer's recommendations.</li><li>Remove or isolate HVAC system in area where work is being done to prevent contamination of dust system.</li></ol>	<ol style="list-style-type: none"><li>Wipe work surfaces with disinfectant.</li><li>Contain construction waste before transport in tightly covered containers.</li><li>Wet mop and/or vacuum work area with HEPA filtered vacuum before leaving work areas.</li><li>Remove isolation of HVAC system in areas where work is being performed.</li></ol>
A	CLASS III	<ol style="list-style-type: none"><li>Includes all activities required by Class II</li><li>Obtain Infection Control Permit from Hospital Safety Officer or Facilities Management Maintenance and Engineering department before construction begins.</li><li>Remove or isolate HVAC system in area where work is being done to prevent contamination of dust system.</li><li>Complete all critical barriers before construction begins or implement control cube method.</li><li>Maintain negative air pressure within work site utilizing HEPA-equipped air filtration units.</li><li>Contain construction waste before transport in tightly covered containers.</li><li>Cover transport receptacles or carts. Tape covers.</li><li>Wet mop and/or vacuum with HEPA filtered vacuum before leaving work areas.</li><li>Remove isolation of HVAC system in areas where work is being performed.</li></ol>	<ol style="list-style-type: none"><li>Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction.</li><li>Contain construction waste before transport in tightly covered containers.</li><li>Cover transport receptacles or carts. Tape covering.</li><li>Vacuum work area with HEPA filtered vacuums.</li><li>Wet mop area with disinfectant after barriers are removed.</li><li>Remove or isolate HVAC system in areas where work is being performed.</li></ol>
	CLASS IV	<ol style="list-style-type: none"><li>Includes all activities required by Class III.</li><li>Obtain Infection Control Permit from Hospital Safety Officer or Facilities Management Maintenance and Engineering department before construction begins.</li><li>Isolate HVAC system in areas where work is being done to prevent contamination of dust system.</li><li>Complete all critical barriers or implement control cube method before construction begins.</li><li>Maintain negative air pressure within work site utilizing HEPA equipped air filtration units.</li><li>Seal holes, pipes, conduits, and punctures appropriately.</li><li>Construct anteroom and require all personnel to pass through this room so they can be vacuumed using a HEPA vacuum cleaner before leaving work site or they can wear cloth or paper coveralls that are removed each time they leave the work site.</li><li>All personnel entering work site are required to wear shoe covers. Shoe covers must be changed each time the worker exits the work area.</li><li>Place adhesive walk-off mats at entrance to work area within anteroom.</li><li>Replace per manufacturer's recommendations. Do not remove barriers from work area until completed project is inspected each by the Hospital Safety Officer, Facilities Management Maintenance and Engineering Department, and thoroughly cleaned by the Hospital Environmental Services Department or their contracted Environmental Service Company.</li><li>Contain construction waste before transport in tightly covered containers.</li><li>Cover transport receptacles or carts. Tape covering.</li><li>Vacuum work area with HEPA filtered vacuums.</li><li>Wet mop with disinfectant after barriers are removed.</li><li>Remove isolation of HVAC system in areas where work is being performed.</li></ol>	<ol style="list-style-type: none"><li>Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction.</li><li>Contain construction waste before transport in tightly covered containers.</li><li>Cover transport receptacles or carts. Tape covering.</li><li>Vacuum work area with HEPA filtered vacuums.</li><li>Wet mop area with disinfectant after barriers are removed.</li><li>Remove or isolate HVAC system in areas where work is being performed.</li></ol>

1ST FLOOR ICRA PLAN 1/4" = 1'-0"	
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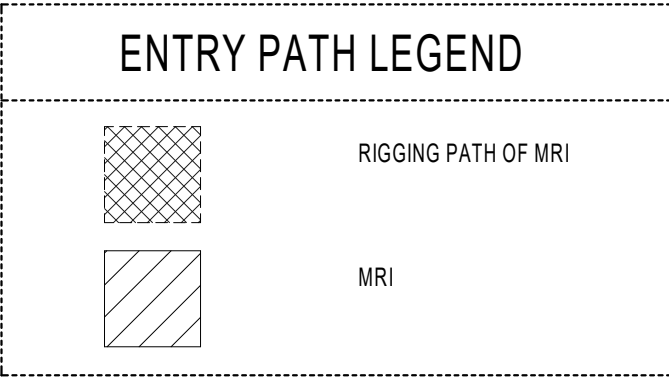
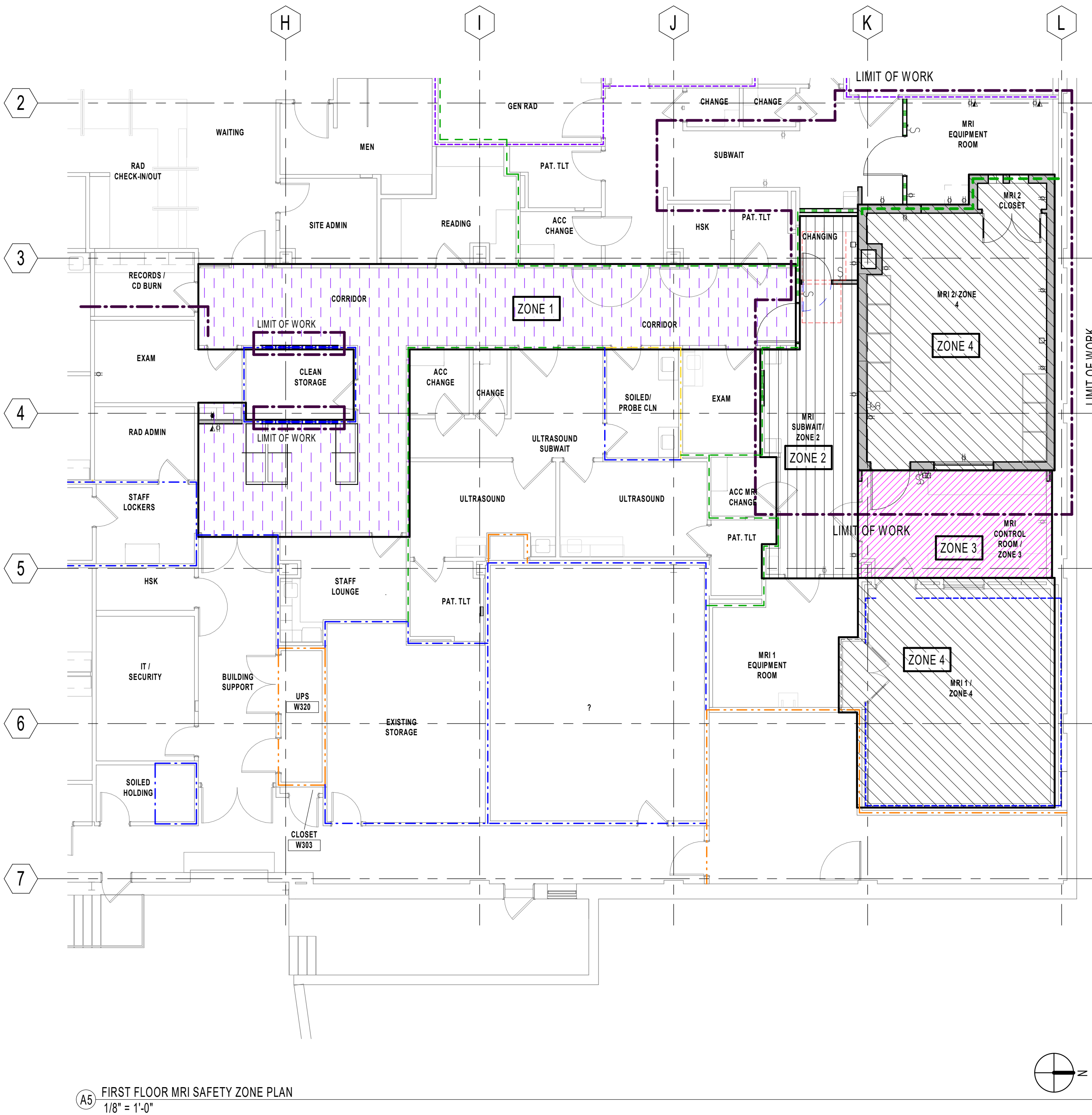
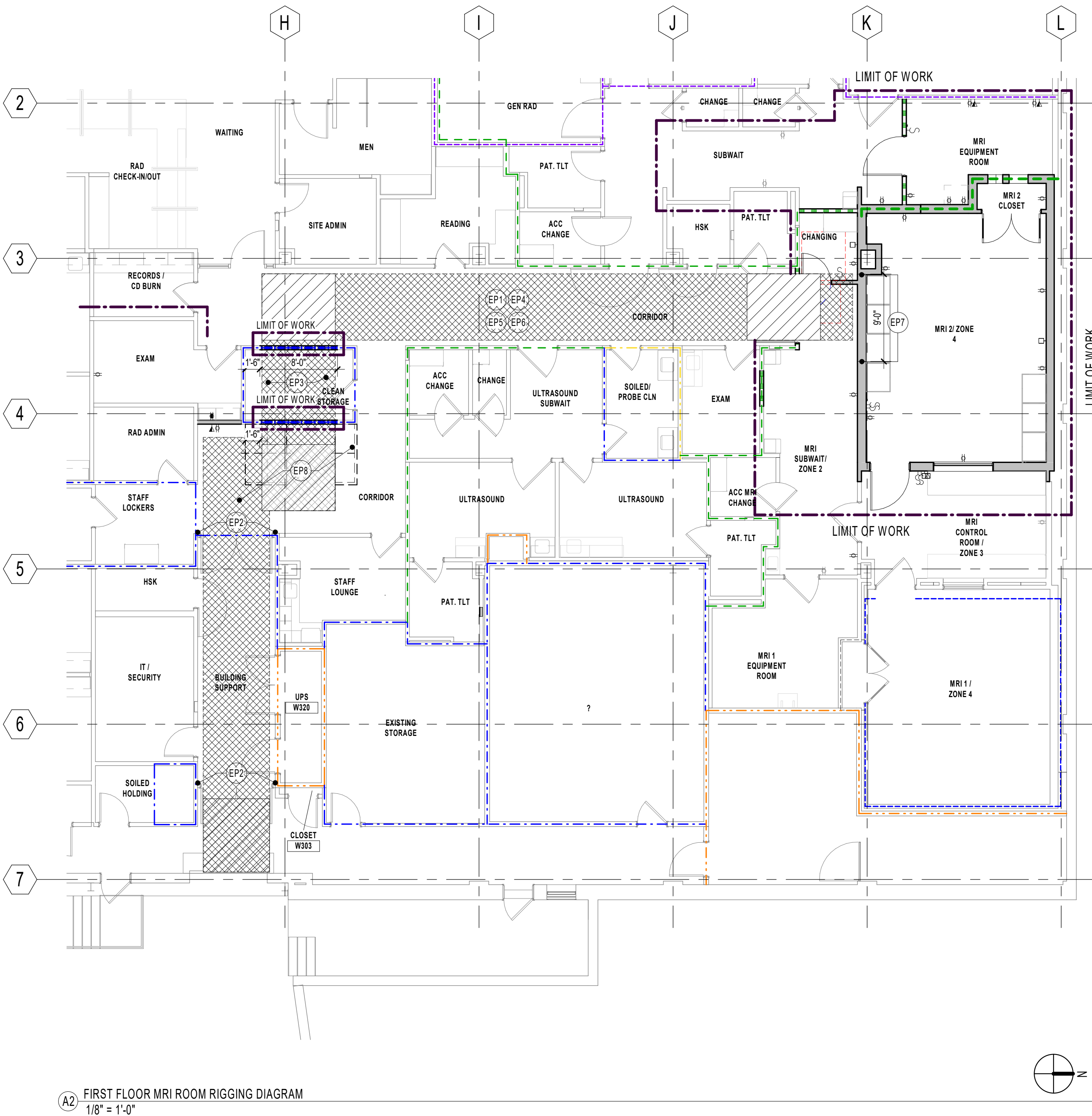
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- RIGGING PATH GENERAL NOTES
- CONTRACTOR TO FIELD-VERIFY ALL CLEARANCES REQUIRED FOR RIGGING ALONG THE MRI DELIVERY PATHWAY PRIOR TO DEMOLITION.
  - ALL CONSTRUCTION WORK RELATED TO RIGGING DELIVERY TO BE DONE **OFF-HOURS**. WORK STARTS FRIDAY AT 7:30PM AND COMPLETED BY MONDAY 5:00AM.
  - ALL RIGGING MUST BE TRANSPORTED **SEAWAYS** AND MAGNET COVERS LOCALLY REMOVED PRIOR TO THE DELIVERY DUE TO SPACE CONSTRAINT.
  - CONTRACTOR TO PROVIDE NEW FINISHES TO MATCH EXISTING TO AREAS DISTURBED ALONG THE MRI DELIVERY PATH.
  - REMOVE AND REPLACE SIGNAGE ALONG MRI DELIVERY PATH THAT INTERFERES WITH MRI INGRESS.
  - CONTRACTOR SHALL MAINTAIN LIFE SAFETY THROUGHOUT CONSTRUCTION.

- ENTRY PATH KEYNOTES
- EP1 MRI ACCESS ROUTE. DO NOT PERFORM WORK THAT WOULD INTERFERE WITH THE INSTALLATION OR RIGGING PATH OF THE MRI. UNTIL AFTER THE MRI MANUFACTURER HAS PLACED AND INSTALLED MRI 1 AS SHOWN ON VENDOR DRAWINGS.
  - EP2 CONTRACTOR SHALL REMOVE AND REINSTALL PORTION OF EXISTING WALLS AND DOORS FOR DELIVERY OF MRI MAGNET ALONG PROPOSED MRI RIGGING PATH. MAINTAIN LIFE SAFETY THROUGHOUT CONSTRUCTION.
  - EP3 EXISTING KNOCK-OUT PANELS TO BE REPLACED ONCE INSTALLATION OF MRI EQUIPMENT IS COMPLETE. MAINTAIN FIRE RATING OF EXISTING WALL.
  - EP4 CONTRACTOR TO REMOVE PORTION OF WALL(S) INCLUDING BUT NOT LIMITED TO: HANDRAILS, WALL TILES, AND SUBSTRATE. PATCH WALL TO MATCH EXISTING.
  - EP5 REMOVE CEILING AS REQUIRED TO CREATE RIGGING CLEARANCE. REINSTALL CEILING TO MATCH EXISTING.
  - EP6 IN ORDER TO CREATE MRI RIGGING CLEARANCE, CONTRACTOR SHALL RAISE OR REMOVE ITEMS ON THE EXISTING CORRIDOR CEILING INCLUDING BUT NOT LIMITED TO:
    - LIGHTS
    - CEILING-MOUNT SIGNAGE
    - SMOKE DETECTORS
    - SECURITY CAMERAS
  - EP7 EXTENTS OF KNOCK OUT PANEL FOR POTENTIAL MAINTENANCE AND INSTALLATION OF MRI EQUIPMENT. EXACT LOCATION TO BE DETERMINED.
  - EP8 TEMPORARILY REMOVE EXISTING SYSTEMS FURNITURE AND REINSTALL AFTER MRI RIGGING IS COMPLETED. COORDINATE WITH FACILITIES AND OPERATIONS.

GENERAL CONSTRUCTION NOTES

ALL CONSTRUCTION AND MATERIALS FOR MRI ROOM 2/ ZONE 4 - W/180C AND MRI CONTROL ROOM/ ZONE 3 - W/240F ARE TO BE NON-FERROMAGNETIC, NON-FERROMAGNETIC MATERIALS INCLUDING BUT NOT LIMITED TO REMOVABLE COVERS, SWITCH BOX COVER PLATES, LIGHT FIXTURE COMPONENTS, MOUNTING SCREWS, ETC. TO MINIMIZE POTENTIAL HAZARD IN THE MAGNET ROOM.

MRI ZONE SAFETY NOTES

SUITES FOR MRI EQUIPMENT SHALL BE PLANNED TO CONFORM TO THE FOUR-ZONE SCREENING AND ACCESS CONTROL PROTOCOLS IDENTIFIED IN THE CURRENT EDITION OF THE AMERICAN COLLEGE OF RADIOLOGY'S "GUIDANCE DOCUMENT FOR SAFE MRI PRACTICES."

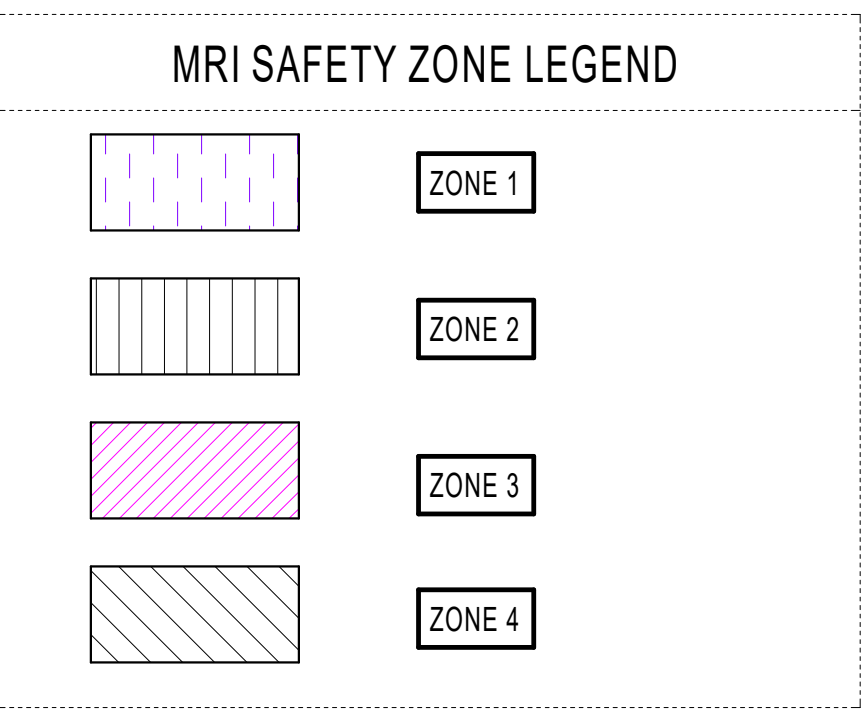
**AMERICAN COLLEGE OF RADIOLOGY (ACR) ZONING DESCRIPTIONS:**

**ZONE 1:** ALL AREAS FREELY ACCESSIBLE TO THE GENERAL PUBLIC WITHOUT SUPERVISION. MAGNETIC FRINGE FIELDS IN THIS AREA ARE LESS THAN 5 GAUSS (0.5mT)

**ZONE 2:** STILL A PUBLIC AREA, BUT THE INTERFACE BETWEEN UNREGULATED ZONE 1 AND THE STRICTLY CONTROLLED ZONES 3 AND 4. MR SAFETY SCREENING TYPICALLY OCCURS HERE UNDER TECHNOLOGIST SUPERVISION.

**ZONE 3:** AN AREA NEAR THE MAGNET ROOM WHERE THE FRINGE, GRADIENT, OR RF MAGNETIC FIELDS ARE SUFFICIENTLY STRONG TO PRESENT A PHYSICAL HAZARD TO UNSCREENED PATIENTS AND PERSONNEL.

**ZONE 4:** SYNONYMOUS WITH THE MR MAGNET ROOM ITSELF. HAS THE HIGHEST FIELD (AND GREATEST RISK) AND FROM WHICH ALL FERROMAGNETIC OBJECTS MUST BE INCLUDED.



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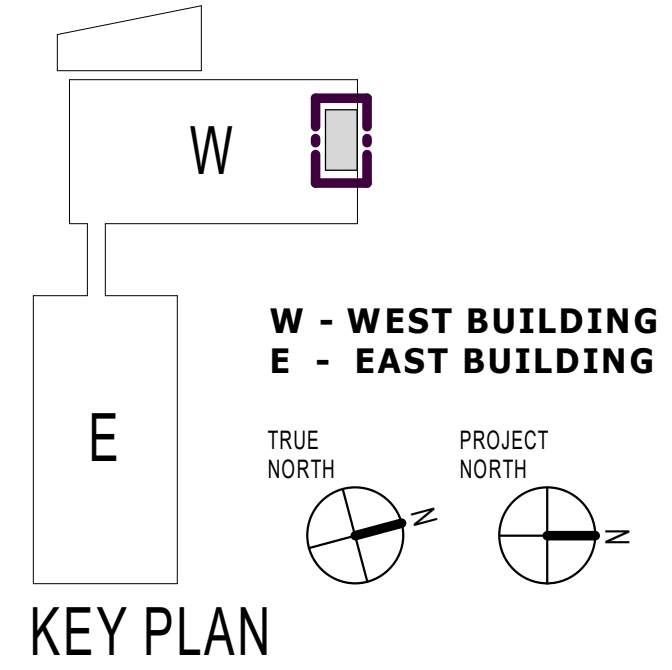
**OWNER:**

**COLUMBIA DOCTOR'S TARRYTOWN**

**PROJECT:**

**NEW MRI**

155 WHITE PLAINS ROAD  
TARRYTOWN, NY 10591



NO.	DESCRIPTION	DATE
REVISIONS/ISSUES		

**SHEET TITLE:**

**PROJECT PHASING AND MRI RIGGING**

**SEAL:**

DATE: 06/18/2021  
CON/REF No.  
CONTRACT No.  
SCALE: AS NOTED  
PROJECT No. 6109  
CHECKED: CH  
DRAWN: KU

**SHEET NO.**

**G-011.00**

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CD Submission 06/18/2021



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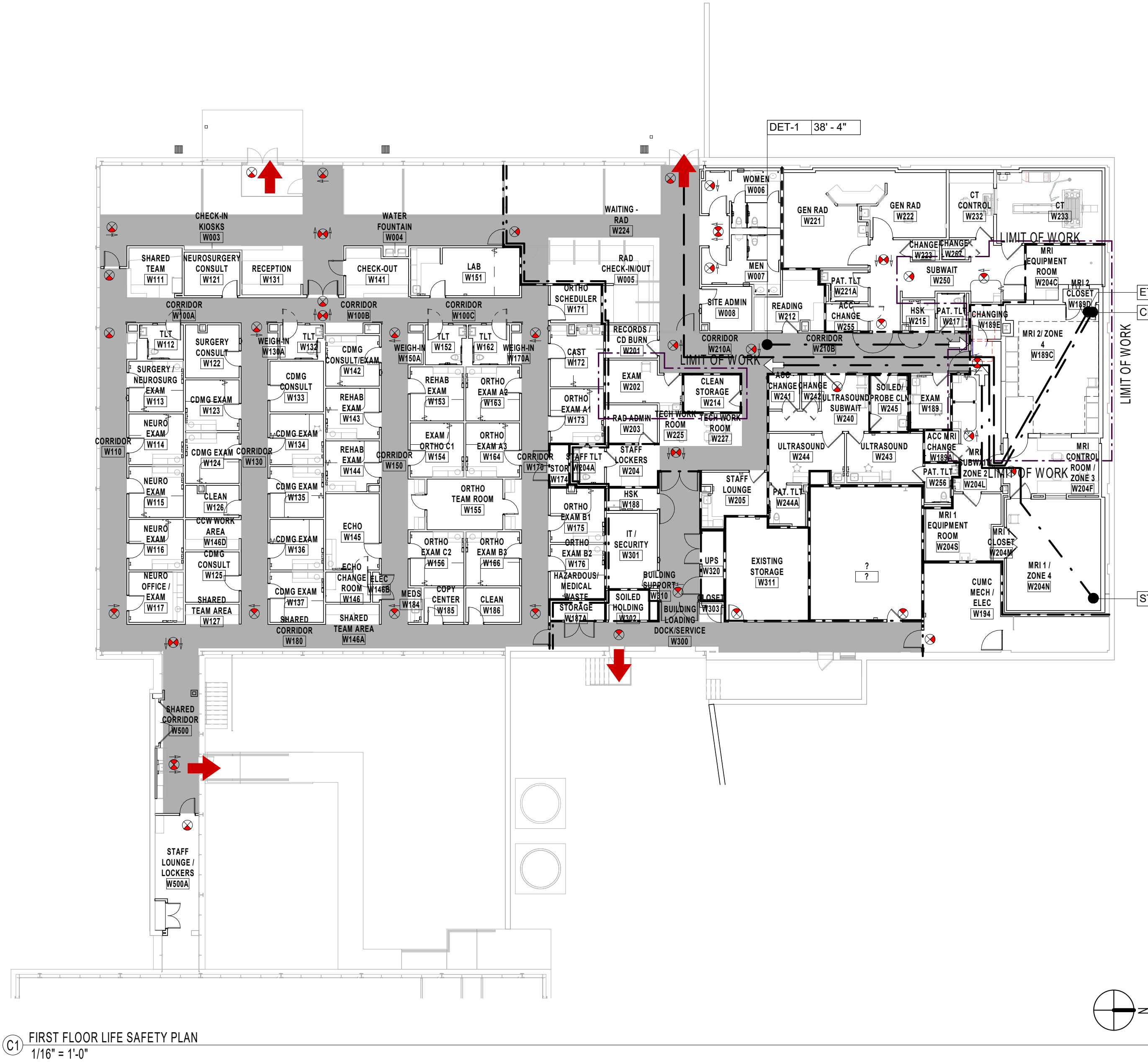
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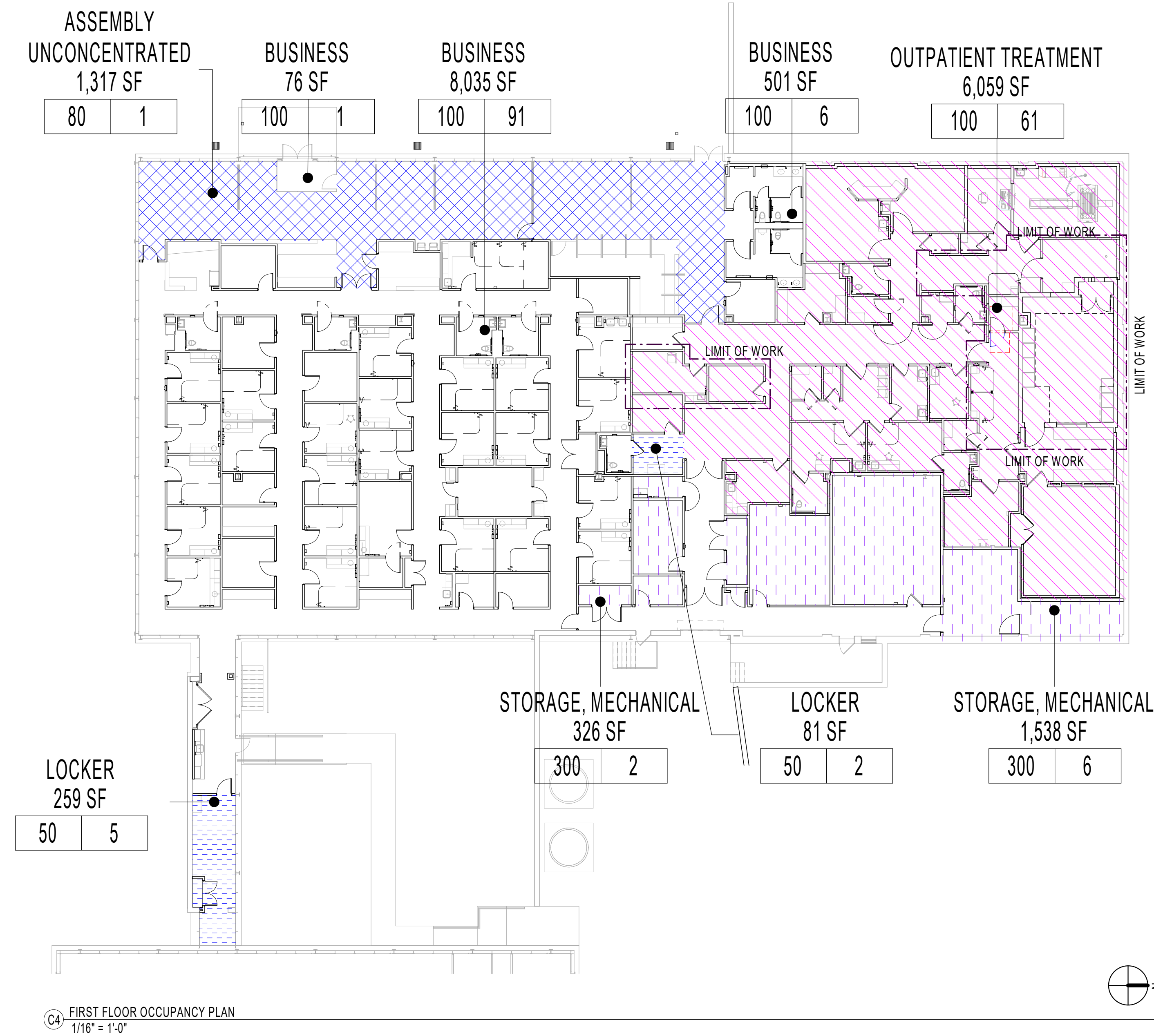
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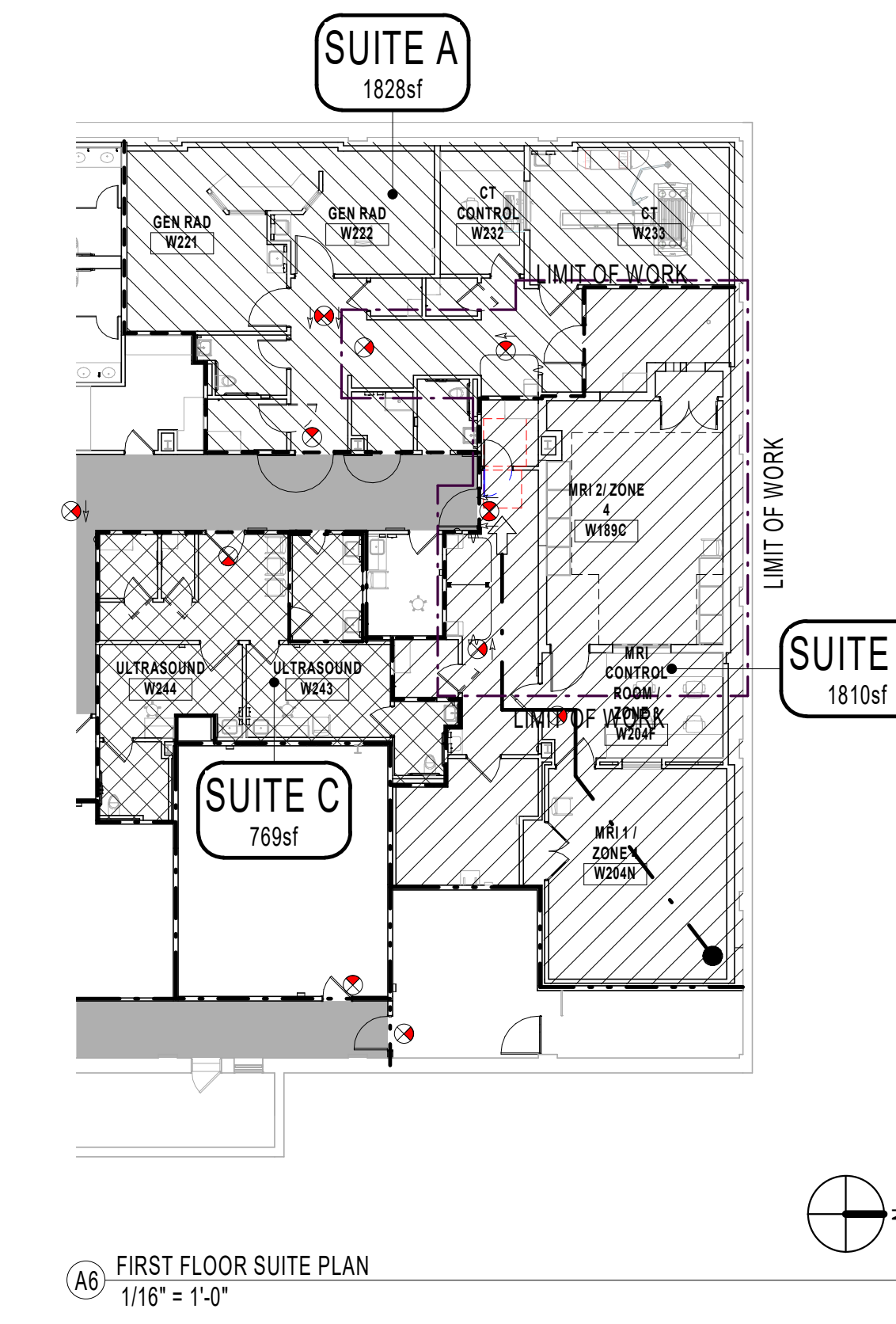
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C1 FIRST FLOOR LIFE SAFETY PLAN  
1/16" = 1'-0"



C4 FIRST FLOOR OCCUPANCY PLAN  
1/16" = 1'-0"



A6 FIRST FLOOR SUITE PLAN  
1/16" = 1'-0"

### LIFE SAFETY LEGEND

--- NON RATED SMOKE PARTITION  
- - - 1 HOUR FIRE RATED BARRIER / PARTITION  
- - - 2 HOUR FIRE RATED BARRIER / PARTITION  
- - - 1 HOUR FIRE RATED SMOKE BARRIER

PASSAGE  
EXIT ACCESS CORRIDORS

SUITE A  
600 SF

EXIT DISCHARGE

ETD  
CPT/STD  
DET

ETD - EXIT TRAVEL DISTANCE  
CPT - COMMON PATH OF TRAVEL  
DET - DEAD END TRAVEL DISTANCE  
STD - SUITE TRAVEL DISTANCE

EXIT LIGHT FIXTURES WITH DIRECTIONAL CHEVRONS  
EXIT LIGHT WITHOUT CHEVRON

NOTE:  
RATED PARTITIONS AND SMOKE BARRIERS SHOWN ON THE EGRESS PLAN ARE A COMBINATION OF NEW AND EXISTING CONSTRUCTION. SEE DRAWINGS A0-101 AND A-101 FOR REQUIREMENTS OF NEW CONSTRUCTION AND VERIFICATION OF EXISTING.

BUSINESS  
428 SF

OCCUPANCY TAG

OCCUPANCY TYPE  
FLOOR AREA  
CALCULATED OCCUPANTS  
FLOOR AREA PER OCCUPANT

- ### LIFE SAFETY GENERAL NOTES
- THE LIFE SAFETY PLANS ARE "DIAGRAMMATIC ONLY". THEIR PURPOSE IS SOLELY TO REPRESENT THE LIFE SAFETY COMPONENTS FOR THE PROJECT (AS INCLUDED IN THE CONSTRUCTION DOCUMENTS PREPARED BY THE ARCHITECT, AND THE ENGINEERS. THE CONTRACTOR SHALL USE THE CONSTRUCTION DOCUMENTS (NOT THE LIFE SAFETY PLANS) FOR THE IMPLEMENTATION OF THE REQUIRED LIFE SAFETY COMPONENTS INTO THE PROJECT.
  - THE CONTRACTOR SHALL MAINTAIN ALL MEANS OF EGRESS FOR THE DURATION OF DEMOLITION AND CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE FIRE RATED TEMPORARY PARTITIONS, AND COVERED WALKS TO MAINTAIN EGRESS AND SAFE PASSAGE FROM THE BUILDING TO THE PUBLIC WAY AND AS REQUIRED BY AUTHORITY HAVING JURISDICTION.
  - THE CONTRACTOR SHALL PROVIDE EXHAUST FANS WITH HEPA FILTERS TO KEEP SPACE WITHIN DEMOLITION / CONSTRUCTION AREA UNDER NEGATIVE PRESSURE AS LOCATIONS AND CONDITIONS DICTATE.
  - THE CONTRACTOR SHALL PROVIDE TEMPORARY PROTECTION WHILE WORKING IN THE SPACES BELOW OR ABOVE THE AREA OF DEMOLITION OR CONSTRUCTION.
  - THE CONTRACTOR SHALL PROVIDE BARRIERS, TEMPORARY PARTITIONS TO PROTECT OCCUPANTS FROM PHYSICAL HAZARD AND NOISE DURING DEMOLITION / CONSTRUCTION.
  - THE CONTRACTOR SHALL DETERMINE THE LOCATION OF CONSTRUCTION DOORS IN CONSTRUCTION BARRIERS. DOORS AND FRAMES IN CONSTRUCTION BARRIERS TO BE GASKET HOLLOW METAL. DOORS TO BE SELF CLOSING AND LOCKABLE.
  - THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY UPON DISCOVERY OF ANY LIFE SAFETY COMPONENT THAT IS SHOWN ON THE LIFE SAFETY PLANS BUT HAS NOT BEEN INCLUDED IN THE CONSTRUCTION DOCUMENTS PREPARED BY THE ARCHITECT, AND THE ENGINEERS.
  - THE EXISTING-TO-REMAIN PORTIONS OF THE BUILDING WERE PROVIDED TO THE ARCHITECT BY THE OWNER. ARRAY ARCHITECTS TAKES NO RESPONSIBILITY FOR THEIR ACCURACY BEYOND THE LIMITS OF THE DESIGNATED "SCOPE OF WORK" AS DEFINED ON THE ARCHITECTURAL FLOOR PLANS.

### OCCUPANT LOAD LEGEND

OUTPATIENT TREATMENT  
(100 NET SQ.FT. / OCCUPANT)

LOCKERS  
(50 NET SQ.FT. / OCCUPANT)

BUSINESS  
(100 NET SQ.FT. / OCCUPANT)

ASSEMBLY UNCONCENTRATED  
(80 NET SQ.FT. / OCCUPANT)

STORAGE/MECHANICAL  
(300 GROSS SQ.FT. / OCCUPANT)

BUSINESS  
428 SF

OCCUPANCY TAG

OCCUPANCY TYPE  
FLOOR AREA  
CALCULATED OCCUPANTS  
FLOOR AREA PER OCCUPANT

### OCCUPANCY TYPE

THIS PROJECT DESIGN HAS NOT ALTERED THE EXISTING OCCUPANCY.

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**OWNER:**

**COLUMBIA DOCTOR'S TARRYTOWN**

**PROJECT:**

**NEW MRI**

155 WHITE PLAINS ROAD  
TARRYTOWN, NY 10591

**KEY PLAN**

W - WEST BUILDING  
E - EAST BUILDING

TRUE NORTH  
PROJECT NORTH

NO.	DESCRIPTION	DATE
REVISIONS/ISSUES		

**SHEET TITLE:**

**LIFE SAFETY & OCCUPANCY PLANS AND NOTES**

**SEAL:**

DATE: 06/18/2021  
CON/REF No.  
CONTRACT No.  
SCALE: AS NOTED  
PROJECT No. 6109  
CHECKED: CH  
DRAWN: KU

**SHEET NO.**

**LSC-101.00**

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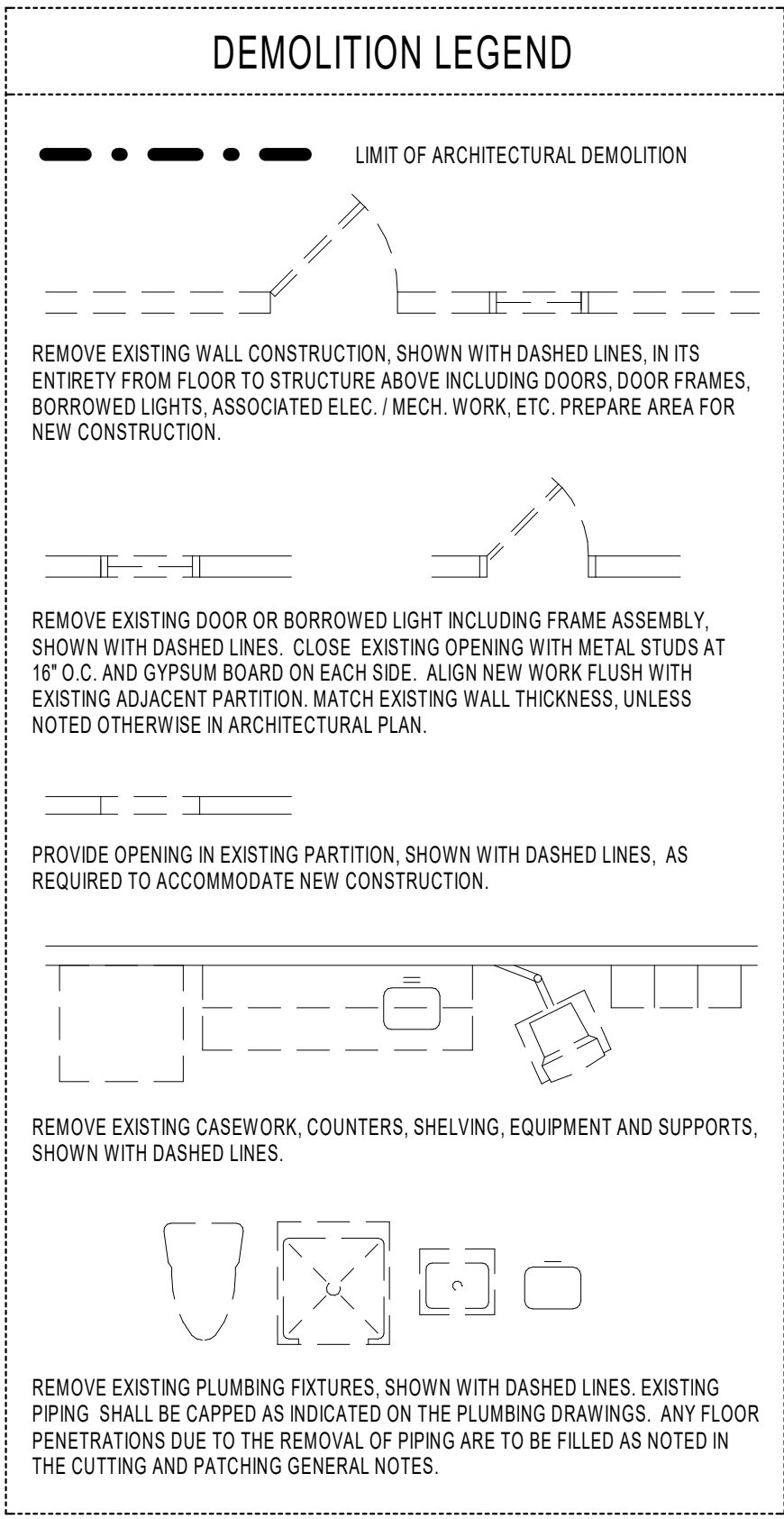
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DEMOLITION GENERAL NOTES
1. DEMOLITION WORK SHALL BE EXECUTED IN CONFORMANCE WITH ALL CODES AND ORDINANCES AS SET FORTH BY ALL AUTHORITIES HAVING JURISDICTION.
2. THE 'LIMITS OF ARCHITECTURAL DEMOLITION' LINES SHOWN ON THE ARCHITECT'S DEMOLITION PLANS APPLY ONLY TO THE LIMITS OF THE ARCHITECTURAL DEMOLITION. SEE OTHER DISCIPLINES' DRAWINGS FOR THE LIMIT OF THEIR DEMOLITION WORK.
3. THE SCOPE OF DEMOLITION WORK SHOWN IS INTENDED TO PREPARE THE BUILDING TO RECEIVE THE NEW WORK. THE CONTRACTOR SHALL REMOVE ALL EXISTING ITEMS OF CONSTRUCTION AND EQUIPMENT WITHIN THE PROJECT AREA AS REQUIRED TO ALLOW FOR THE EXECUTION OF THE NEW WORK.
4. THE CONTRACTOR SHALL BRACE ALL EXISTING STRUCTURES AND STRUCTURAL ELEMENTS AS NECESSARY DURING DEMOLITION. THE CONTRACTOR SHALL ENGAGE A STRUCTURAL ENGINEER TO DETERMINE REQUIREMENTS.
5. NO FLOOR OR STRUCTURAL MEMBERS SHALL BE CUT WITHOUT PERMISSION OF A REGISTERED STRUCTURAL ENGINEER.
6. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY IF ANY DEMOLITION OR NEW CONSTRUCTION WORK CANNOT BE PERFORMED DUE TO EXISTING FIELD CONDITIONS.
7. WHERE NEW FLOORING IS INDICATED, THE CONTRACTOR SHALL REMOVE ALL EXISTING FLOOR FINISHES AND ADHESIVE DOWN TO THE CONCRETE SLAB, AND LEAVE FLOOR SMOOTH FOR NEW FINISH. THE CONTRACTOR SHALL FOLLOW MANUFACTURER'S REQUIREMENTS FOR SUB-FLOOR PREPARATION.
8. WHERE NEW WALL FINISH MATERIALS ARE SCHEDULED FOR EXISTING WALLS TO REMAIN, THE CONTRACTOR SHALL COORDINATE AND REMOVE THE EXISTING FINISH MATERIALS ACCORDINGLY. UPON REMOVAL OF THE EXISTING FINISH MATERIALS, THE CONTRACTOR SHALL REPAIR THE EXISTING WALL TO A LEVEL 1 WALL FINISH.
9. WHERE NEW CEILING ARE INDICATED, THE CONTRACTOR SHALL REMOVE ALL EXISTING CEILING TO ALLOW FOR PROPER INSTALLATION OF NEW CEILINGS.
10. AFTER DEMOLITION WORK IS COMPLETE, THE CONTRACTOR SHALL REPAIR ALL HOLES IN EXISTING TO-REMAIN FLOORS, WALLS, FIRE BARRIERS, AND ROOFS TO COMPLY WITH ORIGINAL FIRE/SMOKE/SOUND ASSEMBLIES, FIRE PROTECTION REQUIREMENTS, AND STRUCTURAL INTEGRITY.



CONTRACTOR RESPONSIBILITIES WITH REGARD TO EXISTING CONDITIONS NOTES
1. THE CONTRACTOR SHALL PERFORM A SITE VISIT, IN DOING SO THE CONTRACTOR HAS AGREED THAT ONE HAS INVESTIGATED THE EXISTING CONDITIONS TO BE RENOVATED AND COMPARE THEM TO THE WORK TO BE PERFORMED ACCORDING TO THE CONTRACT DOCUMENTS.
2. THE EXISTING INFORMATION INCLUDED WITHIN THE CONTRACT DOCUMENTS ARE BASED UPON INFORMATION PROVIDED BY THE OWNER AND FURTHER SUPPLEMENTED BY LIMITED FIELD OBSERVATIONS AND MEASUREMENT AND MAY NOT REFLECT ALL EXISTING CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR COMPLETE VERIFICATION OF ALL EXISTING FIELD CONDITIONS.
3. THE CONTRACTOR SHALL FIELD-VERIFY THE EXISTING CONDITIONS AS THEY RELATED TO SPECIFIC PORTIONS OF THE WORK. VERIFICATION SHALL BE UNDERTAKEN IN ADVANCE TO ALLOW FOR TIMELY IDENTIFICATION OF EXISTING CONDITIONS THAT MAY AFFECT THE SCHEDULED INSTALLATION OF NEW WORK AS DOCUMENTED AND TO AVOID UNDUE AND UNREASONABLE DELAYS TO THE PROJECT CONSTRUCTION SCHEDULE. SHOULD SUCH CONDITIONS BE DISCOVERED, A MINIMUM PERIOD OF TEN (10) WORKING DAYS SHALL BE ALLOWED FOR THE ARCHITECT TO EVALUATE THE CONDITIONS AND MAKE RECOMMENDATIONS TO ACCOMMODATING NEW WORK BASED ON ACTUAL CONDITION.
4. THE CONTRACTOR SHALL FIELD-VERIFY THE LOCATION AND EXTENT OF THE LIFE SAFETY SYSTEM INCLUDING BUT NOT LIMITED TO SPRINKLER SYSTEMS, SMOKE DETECTION SYSTEMS, EMERGENCY LIGHTING SYSTEMS) AS THEY MAY BE AFFECTED BY THE NEW WORK. THE CONTRACTOR IS RESPONSIBLE FOR ACCOMMODATING THESE SYSTEMS WHEN AFFECTED BY NEW WORK SO THAT ALL APPLICABLE CODES REQUIREMENTS ARE SATISFIED.
5. THE CONTRACTOR SHALL IDENTIFY EXISTING COMPONENTS AND ASSEMBLIES WITHIN THE BUILDING THAT ARE CONSTRUCTED AS FIRE-RATED ASSEMBLIES. SHALL NOTE ANY DISCREPANCIES AND/OR CONFLICTS INVOLVING EXISTING CONDITIONS AND BRING THEM TO THE ARCHITECT'S ATTENTION IMMEDIATELY.
6. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER ANY CONSTRUCTION ACTIVITIES WHICH MAY IMPEDE NORMAL OPERATION, INCLUDING ANY ACTIVITY WHICH CREATES EXCESSIVE NOISE, AND NOTIFY ANY OCCUPANTS OF THE BUILDING OF ANY CONSTRUCTION ACTIVITIES WHICH MAY AFFECT THEIR ABILITY TO OPERATE NORMALLY.
7. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO AREAS ADJACENT TO NEW CONSTRUCTION OR OCCUPIED AREAS WHERE VARIOUS SYSTEM CONNECTIONS OR EXTENSIONS ARE REQUIRED AND SHALL BE RESPONSIBLE FOR DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES.

CUTTING AND PATCHING GENERAL NOTES
1. THE CONTRACTOR SHALL REPLACE OR REPAIR ANY EXISTING-TO-REMAIN MATERIALS AND FINISHES WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION, OR ANY OTHER WORK PERFORMED UNDER THIS CONTRACT. THE CONTRACTOR SHALL PATCH, REPAIR AND ALIGN ALL EXISTING CONSTRUCTION SO AS TO LEAVE NO EVIDENCE OF PATCHING OR REPAIR AND PREPARE EXISTING SURFACE TO RECEIVE NEW SCHEDULED FINISHES.
2. THE CONTRACTOR SHALL REMOVE ALL EXISTING CEILINGS TO ALLOW FOR PROPER INSTALLATION OF MECHANICAL, PLUMBING AND ELECTRICAL WORK, AND PATCH AND REPAIR EXISTING CEILINGS TO MATCH EXISTING.
3. WHEN ACCESS IS REQUIRED FOR THE INSTALLATION OF NEW WORK ABOVE EXISTING CEILING SYSTEMS TO REMAIN, THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REINSTALLATION OF THE EXISTING SYSTEM IN ITS ENTIRETY.
4. WHERE EXISTING DUCTS, PIPES AND ELECTRICAL CONDUITS ARE LEFT EXPOSED FROM DEMOLITION WORK IN FINISHED SPACES, THE CONTRACTOR SHALL ENCLOSE THEM WITH A GYPSUM WALLBOARD PARTITION.
5. WHERE PIPES, CONDUITS, DUCTWORK, ETC. ARE TO BE REMOVED FROM ANY FLOOR OR ROOF ASSEMBLY TO REMAIN, THE CONTRACTOR SHALL INFILL THE OPENING WITH MATERIALS TO MAINTAIN DESIGNATED FIRE OR SMOKE RATINGS, AS INDICATED BELOW: <div><div>A. WHERE OPENINGS ARE ACCESSIBLE TO FOOT TRAFFIC, EXPOSED TO VIEW, OR ARE GREATER THAN 2", THE OPENING MUST BE FILLED WITH A CONCRETE SYSTEM SIMILAR TO EXISTING.</div><div>B. AREAS NOT EXPOSED TO VIEW, OR GREATER THAN 8", THE OPENING MUST BE FILLED WITH A CONCRETE SYSTEM SIMILAR TO EXISTING.</div><div>C. AREAS NOT EXPOSED TO VIEW, CONCEALED BY CONSTRUCTION OR WHERE THE OPENING IS LESS THAN 8" THE OPENING MUST BE FILLED WITH A UL DESIGN SYSTEM AS SPECIFIED IN DIVISION 7 THROUGH PENETRATION RESISTIVE MATERIAL.</div></div>
6. WHERE LEVEL CHANGES, HOLES, DEPRESSIONS, OR FORMED TRENCHES ARE UNCOVERED IN EXISTING CONCRETE SLAB BY THE REMOVAL OF EXISTING WALLS / EXISTING FLOORING OR ANY OTHER DEMOLITION ACTION, THE CONTRACTOR SHALL PATCH AND REPAIR EXISTING CONCRETE SURFACES WITH A LATEX OR GYPCRETE LEVELING COMPOUND UNLESS SPECIFIED OTHERWISE TO PRODUCE A SMOOTH LEVEL SURFACE TO RECEIVE NEW FINISHES.
7. IF ANY EXISTING PRE-PROOFING AND/OR RATED ASSEMBLIES TO REMAIN ARE DAMAGED DURING DEMOLITION, THEY SHALL BE REPLACED OR REPAIRED TO CONFORM TO THE ORIGINAL FIRE PROTECTION REQUIREMENTS.

DEMOLITION KEYNOTES
D1 EXISTING LEAD LINES WALLS AND DOOR TO BE DEMOLISHED.
D2 EXISTING EQUIPMENT AND FURNITURE TO BE REMOVED AND HANDED OVER TO THE OWNER FOR TEMPORARY STORAGE DURING RIGGING. REINSTALL SYSTEMS FURNITURE AFTER MRI RIGGING.
D3 EXISTING OXYGEN MONITOR FOR MRI ONE TO BE REMOVED AND RELOCATED.
D4 DEMOLISH ALL EXISTING CASEWORK AND COUNTERTOPS.
D5 DEMOLISH CEILING, LIGHT FIXTURES, REGISTERS, AND ANY CEILING MOUNTED EQUIPMENT.
D6 EXISTING CONTROL ROOM TABLE, EQUIPMENT, AND FURNITURE TO REMAIN.
D7 EXISTING KNOCK OUT PANELS ARE TO BE REMOVED TO ALLOW FOR RIGGING PATH OF THE NEW MRI MACHINE. REPLACE ONCE MRI MAGNET IS INSTALLED. MATCH AND MAINTAIN EXISTING 1 HOUR RATING. U465
D8 TEMPORARILY REMOVE FURNITURE SYSTEMS FOR RIGGING PATH OF MRI MACHINE.
D9 REMOVE ALL REMAINING MEDICAL EQUIPMENT, SALVAGE AND RETURN TO OWNER.
D10 AREA OF PLYWOOD TO BE REMOVED.
D11 COORDINATE WITH USERS IV PREP.
D12 REMOVE EXISTING CHAIR RAIL, PATCH AND REPAIR WALL, PREPARE FOR NEW FINISHES.
D13 SALVAGE EXISTING CORNER GUARD, PATCH AND REPAIR WALL, PREPARE FOR NEW FINISHES. REFER TO FINISH PLAN FOR NEW LOCATION OF CORNER GUARD.
D14 APPROXIMATE AREA OF CONCRETE SLAB REMOVAL FOR NEW SANITARY LINE FOR FLOOR DRAIN. REFER TO PLUMBING DRAWINGS.
D15 GC TO MAINTAIN LEAD LINING ON EXISTING WALL. REPLACE LEAD LINING AS NEEDED AND CONSULT WITH HOSPITAL PHYSICISTS.
D16 REMOVE EXISTING CEILINGS. SALVAGE AND REUSE EXISTING LIGHTING IN NEW MRI EQUIPMENT ROOM.
D17 TEMPORARY DOOR. REFER TO PHASING PLAN.

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PROJECT:

NEW MRI

155 WHITE PLAINS ROAD

TARRYTOWN, NY 10591

W

E

W - WEST BUILDING

E - EAST BUILDING

TRUE NORTH

PROJECT NORTH

KEY PLAN

NO.	DESCRIPTION	DATE
REVISIONS/ISSUES		

SHEET TITLE:

DEMOLITION PLAN

SEAL:

DATE: 06/18/2021

CON/REF No.

CONTRACT No.

SCALE: AS NOTED

PROJECT No. 6109

CHECKED: CH

DRAWN: KU

SHEET NO.

AD-100.00

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OF 47

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CD Submission 06/18/2021



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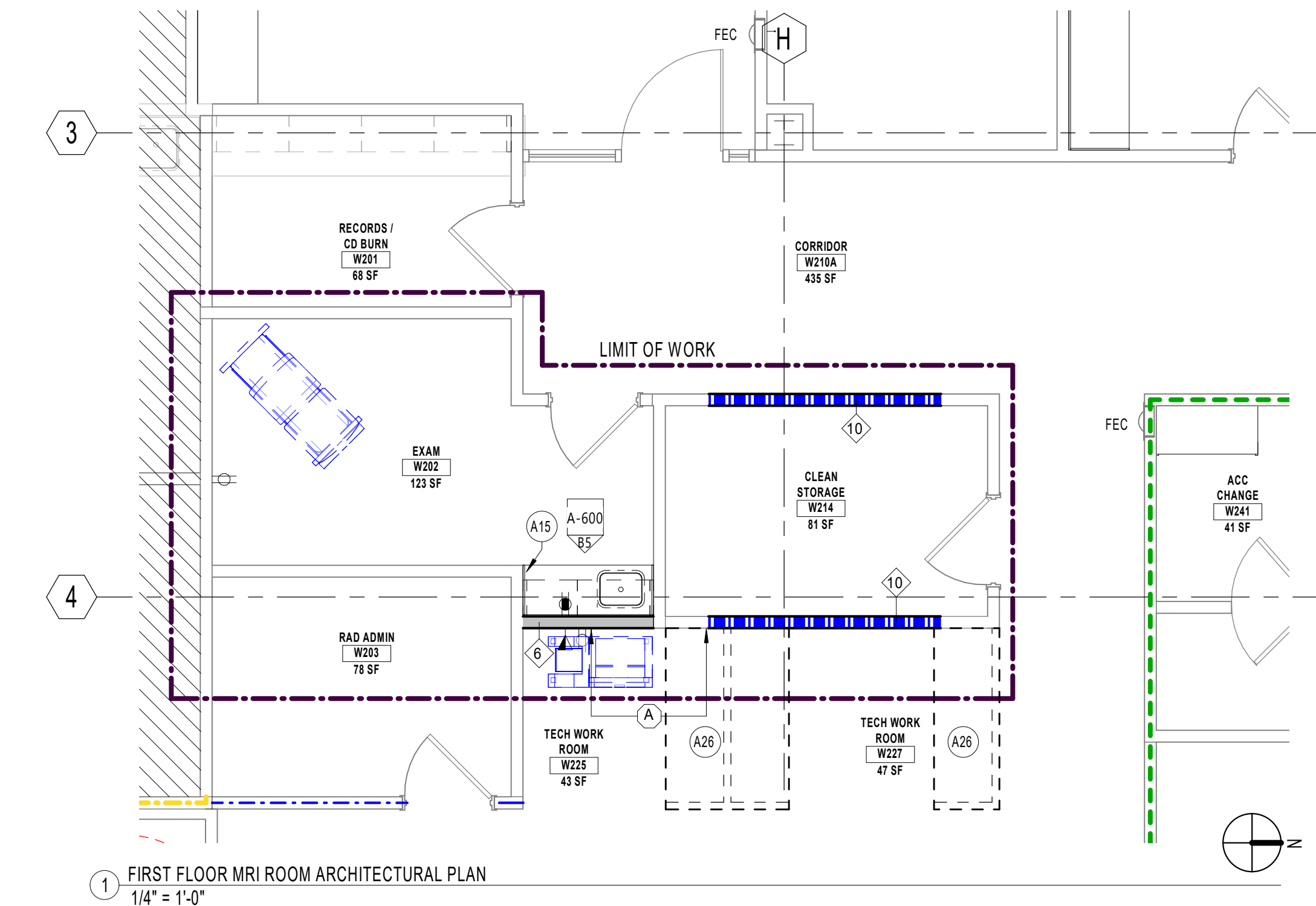
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F

ARCHITECTURAL KEYNOTES	
A1	EXTENT OF EXISTING DEEPER STRUCTURAL SLAB. EXACT LOCATION TO BE CONFIRMED IN FIELD. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
A2	PROVIDE MRI SAFE ADJUSTABLE BLINDS.
A3	EXISTING FIRE EXTINGUISHER CABINET TO REMAIN. CONFIRM MAKE AND MODEL. IS MRI SAFE.
A4	PROVIDE KEYLOCK ON EXISTING DOOR.
A5	DOOR BY MRI SHIELDING VENDOR.
A6	3FORM LTUO FLOOR TO CEILING 200.58 PARTITION. REFER TO FINISH PLAN FOR RESIN FINISH. FASTEN TO FLOOR AND CEILING. PROVIDE BLOCKING ABOVE CEILING AT VERTICAL SUPPORTS.
A7	NEW SHAFT FOR QUENCH VENT. MORE INFORMATION PROVIDED ON MEP DRAWINGS AND OPENING INFORMATION ON STRUCTURAL DRAWINGS. COORDINATE WORK SCHEDULE WITH CURRENT OCCUPANTS OF SPACE.
A8	ADD ALTERNATE: DEMOLISH EXISTING PLASTIC LAMINATE COUNTERTOP. REPLACE WITH NEW SOLID SURFACE COUNTERTOP. SSP-1, SUPPORTED BY RECESSED COUNTERTOP BRACKETS.
A9	PROVIDE MINIMUM 1" RADIUS ON SOLID SURFACE EDGE.
A10	PROVIDE 24" X 60" STAINLESS STEEL FRAMED WALL MOUNTED MIRROR. PROVIDE IN-WALL BLOCKING.
A11	APPROXIMATE CONCRETE INFILL OF TRENCH FOR SANITARY LINE FOR FLOOR DRAIN.
A12	CONFIRM EXACT LOCATION OF EXISTING OUTLET. MAY NEED TO BE RELOCATED TO ACCOMMODATE MILLWORK. REVIEW WITH ENGINEER AND OWNER.
A13	RELOCATED FEC.
A14	LOCKABLE UPPER CABINET.
A15	PATCH WALL AND FLOOR AS TO LEAVE NO EVIDENCE OF REMOVAL. MATCH EXISTING FINISHES. ADD CEILING TILES AND GRID IN AREA OF WALL REMOVAL TO MATCH EXISTING.
A16	GO TO PROVIDE AND INSTALL MRI IN-USE LIGHT. PROVIDE DOOR CONTACT TO COORDINATE MRI USE.
A17	SLAB PENETRATIONS TO BE 2HR. RATED.
A18	REMOVABLE ACCESS RF WALL FOR MRI RIGGING.
A19	GROMMET OPENING FOR INJECTOR CABLING. COORDINATE WITH VENDOR DOCUMENTS.
A20	EPO BUTTON. COORDINATE WITH VENDOR.
A21	PROVIDE 2.5" DIA. WAVEGUIDE PIPE FOR INJECTOR CONTROL. PROVIDE COVER FOR WHEN THE WAVEGUIDE PIPE IS NOT IN USE.
A22	RECESSED COUNTER SUPPORT BRACKETS. BASIS OF DESIGN: RAKKS E-1024 INSIDE WALL MOUNT.
A23	ALL OUTLETS PROVIDED IN NEW MRI ROOM - W189C TO BE MRI SAFE/ RF OUTLETS.
A24	PROVIDE MONITOR BRACKETS.
A25	GO TO INSTALL HOLLOW METAL DOOR AND FRAME TO KEEP MRI 1 OPERATIONAL DURING THE COURSE OF CONSTRUCTION. DOOR TO BE A SMOKE DOOR WITH GASKETING. TOWARD THE END OF CONSTRUCTION, GO TO REMOVE DOOR AND FRAME. RESTORE WALL TO ORIGINAL CONDITION AND RATING.
A26	GO TO REINSTALL SYSTEMS FURNITURE AFTER RIGGING. REFER TO RIGGING PLAN.

PARTITION PLAN INDICATIONS	
	EXISTING PARTITION TO REMAIN
	EXISTING LEAD LINED PARTITION
	EXISTING NON RATED SMOKE PARTITION
	EXISTING ONE HOUR FIRE RATED PARTITION
	EXISTING TWO HOUR FIRE RATED PARTITION
	EXISTING ONE HOUR SMOKE BARRIER
	TEMPORARY PARTITION
	TYPICAL NON RATED PARTITION
	TYPICAL NON RATED SMOKE PARTITION
	TYPICAL TWO HOUR RATED PARTITION
* SEE PLAN FOR ACTUAL PARTITION TYPES AS EACH SYMBOL REPRESENTS MULTIPLE WALL TYPES	

ARCHITECTURAL FLOOR PLAN GENERAL NOTES	
1.	THE "LIMITS OF CONSTRUCTION" LINES SHOWN ON THE ARCHITECTS' FLOOR PLANS APPLY ONLY TO THE LIMITS OF ARCHITECTURAL NEW CONSTRUCTION AND RENOVATION. SEE OTHER DISCIPLINES' DRAWINGS FOR THE LIMITS OF THE NEW CONSTRUCTION AND RENOVATION FOR THEIR DISCIPLINE.
2.	THE CONTRACTOR SHALL NOT SCALE DRAWINGS. DIMENSIONS HAVE BEEN PROVIDED THROUGHOUT THE CONTRACT DOCUMENTS FOR THE CONTRACTOR'S USE IN COORDINATING THE WORK. IF ANY DIMENSIONS ARE FOUND IN CONFLICT THE CONTRACTOR SHALL NOTIFY AND OBTAIN CLARIFICATION FROM THE ARCHITECT.
3.	WHERE NEW GYPSUM BOARD PARTITIONS/BARRIERS ARE A CONTINUATION OF AN EXISTING WALL OR COLUMN ENCASEMENT, THE FACE OF NEW GYPSUM BOARD SHALL BE ALIGNED WITH THE FACE OF EXISTING SURFACE UNLESS OTHERWISE INDICATED ON DRAWINGS. THE CONTRACTOR SHALL ACCOUNT FOR ANY ADDITIONAL LAYERS OF DRYWALL NECESSARY TO PROVIDE THE CONTINUATION, ALIGNMENT OR PRESERVATION OF THE FIRE RATING IDENTIFIED.
4.	THE CONTRACTOR SHALL PROVIDE LEVEL TRANSITION BETWEEN EXISTING AND NEW CONCRETE SLABS AND BETWEEN NEW AND EXISTING FINISHES. THE CONTRACTOR SHALL IDENTIFY WHERE THE FLOOR DIPS OR RISES. CLEAN THE FLOOR AND APPLY SELF-LEVELING COMPOUND TO THE FLOOR AS REQUIRED TO ACHIEVE AN EVEN SUBSTRATE AND AN EVEN TRANSITION BETWEEN EXISTING AND NEW CONSTRUCTION.
5.	THE CONTRACTOR SHALL BUILD OUT PARTITIONS TO ACCOMMODATE DEPTH REQUIRED BY FIRE EXTINGUISHER CABINETS AND RECESSED POWER PANELS LOCATED THROUGHOUT THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL OBTAIN THE ARCHITECT'S APPROVAL FOR THEIR FINAL LOCATION.
6.	THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE THICKNESS OF THE SCHEDULED FINISH MATERIALS SUCH AS CERAMIC TILE, SOLID SURFACE, ETC. PRIOR TO LAYOUT OF METAL STUD PARTITIONS OR CMU WALLS. SINCE THE TOTAL WALL THICKNESS MUST BE CONSIDERED SO THAT THE REQUIRED "MINIMUM FACE TO FINISH" AND "MINIMUM CLEAR FACE OF FINISH" DIMENSIONS CAN BE MAINTAINED AFTER THE INSTALLATION OF FINISH MATERIALS.
7.	THE FLOOR SLAB SHALL BE SLOPED (2%) TO DRAIN. DO NOT INTERRUPT INTEGRITY OF FIRE RATING OF AFFECTED FLOOR SLAB.
8.	THE CONTRACTOR SHALL REFER TO THE OWNER'S PROVIDED PHYSICIST REPORT FOR THE REQUIRED THICKNESS OF LEAD ON LEAD LINED PARTITIONS IDENTIFIED IN THE CONTRACT DOCUMENTS.
9.	ACCESS PANELS: a. THE CONTRACTOR SHALL PROVIDE SELF-CLOSING AND KEY-LOCKED ACCESS PANELS OF APPROPRIATE TYPE AND SIZE AS SPECIFIED IN VERTICAL AND HORIZONTAL HARD SURFACES WHERE ACCESS FOR SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING, FIRE PROTECTION, SECURITY, ELECTRICAL OR COMMUNICATION ITEMS MAY BE REQUIRED. b. THE CONTRACTOR SHALL PROVIDE AND INSTALL ACCESS PANELS OF THE APPROPRIATE FIRE-RATED TYPE EQUAL TO THE RATING OF THE VERTICAL AND HORIZONTAL HARD SURFACES WHERE REQUIRED TO BE INSTALLED. c. ACCESS PANELS SHALL BE CASKEITED TO BE AIRTIGHT IN ROOMS IDENTIFIED ON THE MECHANICAL DRAWINGS AS POSITIVE OR NEGATIVE PRESSURE. d. THE CONTRACTOR SHALL SUBMIT AN ACCESS PANEL SCHEDULE AND LOCATION PLAN IDENTIFYING ALL ACCESS POINTS TO THE ARCHITECT FOR REVIEW AS REQUIRED BY THE SPECIFICATIONS.
10.	ALL RATED SMOKE BARRIERS, RATED HORIZONTAL EXITS, AND RATED EXIT PASSAGEWAY BARRIER WALLS SHALL BE CONSTRUCTED PRIOR TO THE CONSTRUCTION OF INTERVENING WALLS.
11.	ALL FLOORS, PARTITIONS AND CEILINGS IN ROOMS IDENTIFIED ON THE MECHANICAL DRAWINGS AS POSITIVE OR NEGATIVE PRESSURE SHALL BE SEALED AIRTIGHT.
12.	FIRE EXTINGUISHER CABINET, 6" STUDS.





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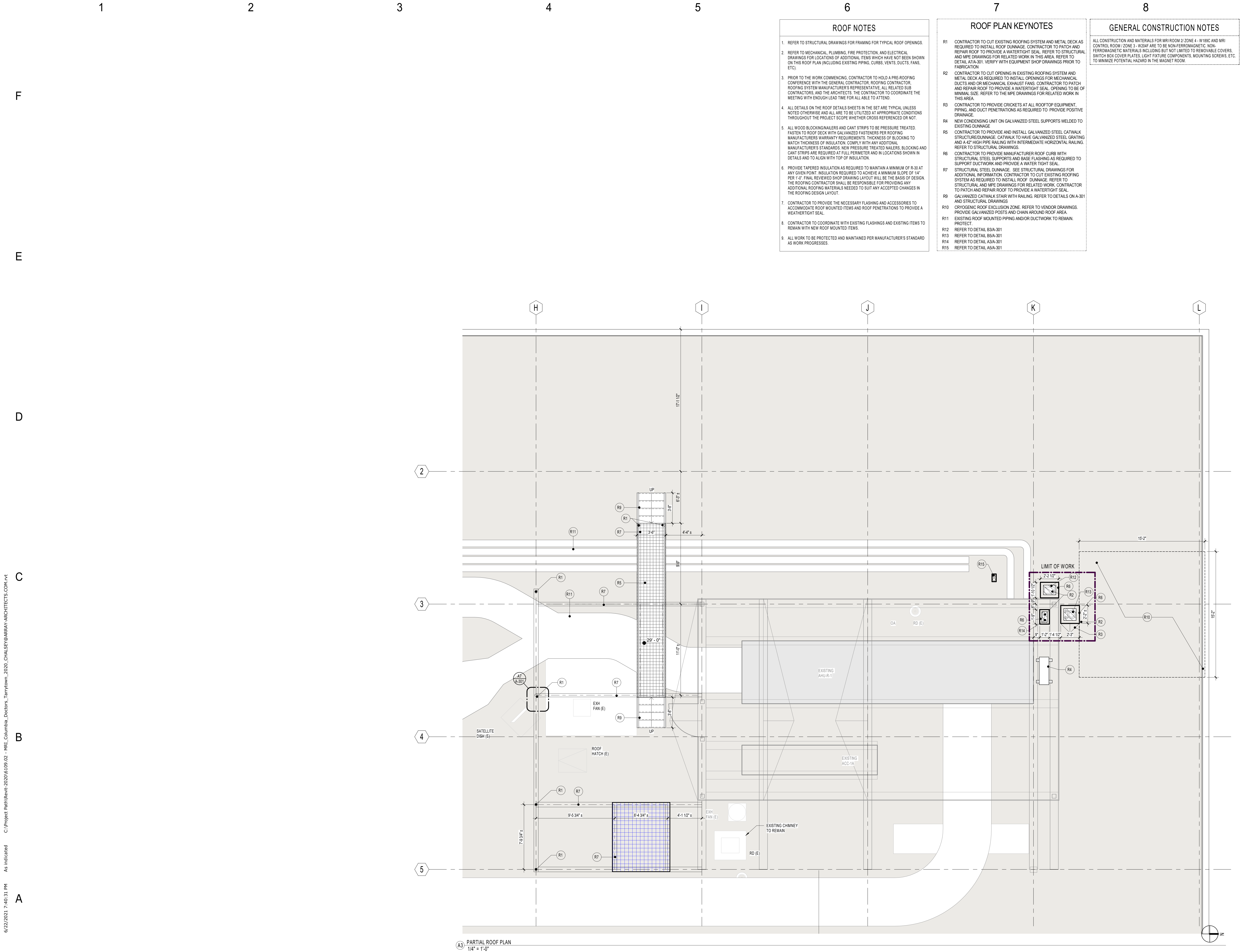
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- ROOF NOTES**
- REFER TO STRUCTURAL DRAWINGS FOR FRAMING FOR TYPICAL ROOF OPENINGS.
  - REFER TO MECHANICAL, PLUMBING, FIRE PROTECTION, AND ELECTRICAL DRAWINGS FOR LOCATIONS OF ADDITIONAL ITEMS WHICH HAVE NOT BEEN SHOWN ON THIS ROOF PLAN (INCLUDING EXISTING PIPING, CURBS, VENTS, DUCTS, FANS, ETC).
  - PRIOR TO THE WORK COMMENCING, CONTRACTOR TO HOLD A PRE-ROOFING CONFERENCE WITH THE GENERAL CONTRACTOR, ROOFING CONTRACTOR, ROOFING SYSTEM MANUFACTURER'S REPRESENTATIVE, ALL RELATED SUB CONTRACTORS, AND THE ARCHITECTS. THE CONTRACTOR TO COORDINATE THE MEETING WITH ENOUGH LEAD TIME FOR ALL ABLE TO ATTEND.
  - ALL DETAILS ON THE ROOF DETAILS SHEETS IN THE SET ARE TYPICAL UNLESS NOTED OTHERWISE AND ALL ARE TO BE UTILIZED AT APPROPRIATE CONDITIONS THROUGHOUT THE PROJECT SCOPE WHETHER CROSS REFERENCED OR NOT.
  - ALL WOOD BLOCKING/NALERS AND CANT STRIPS TO BE PRESSURE TREATED. FASTEN TO ROOF DECK WITH GALVANIZED FASTENERS PER ROOFING MANUFACTURER'S WARRANTY REQUIREMENTS. THICKNESS OF BLOCKING TO MATCH THICKNESS OF INSULATION. COMPLY WITH ANY ADDITIONAL MANUFACTURER'S STANDARDS. NEW PRESSURE TREATED NALERS, BLOCKING AND CANT STRIPS ARE REQUIRED AT FULL PERIMETER AND IN LOCATIONS SHOWN IN DETAILS AND TO ALIGN WITH TOP OF INSULATION.
  - PROVIDE TAPERED INSULATION AS REQUIRED TO MAINTAIN A MINIMUM OF R-30 AT ANY GIVEN POINT. INSULATION REQUIRED TO ACHIEVE A MINIMUM SLOPE OF 1/4" PER 1'-0". FINAL REVIEWED SHOP DRAWING LAYOUT WILL BE THE BASIS OF DESIGN. THE ROOFING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY ADDITIONAL ROOFING MATERIALS NEEDED TO SUIT ANY ACCEPTED CHANGES IN THE ROOFING DESIGN LAYOUT.
  - CONTRACTOR TO PROVIDE THE NECESSARY FLASHING AND ACCESSORIES TO ACCOMMODATE ROOF MOUNTED ITEMS AND ROOF PENETRATIONS TO PROVIDE A WEATHERTIGHT SEAL.
  - CONTRACTOR TO COORDINATE WITH EXISTING FLASHINGS AND EXISTING ITEMS TO REMAIN WITH NEW ROOF MOUNTED ITEMS.
  - ALL WORK TO BE PROTECTED AND MAINTAINED PER MANUFACTURER'S STANDARD AS WORK PROGRESSES.

- ROOF PLAN KEYNOTES**
- R1 CONTRACTOR TO CUT EXISTING ROOFING SYSTEM AND METAL DECK AS REQUIRED TO INSTALL ROOF DUNNAGE. CONTRACTOR TO PATCH AND REPAIR ROOF TO PROVIDE A WEATHERTIGHT SEAL. REFER TO STRUCTURAL AND MPE DRAWINGS FOR RELATED WORK IN THIS AREA. REFER TO DETAIL A7/A-301. VERIFY WITH EQUIPMENT SHOP DRAWINGS PRIOR TO FABRICATION.
  - R2 CONTRACTOR TO CUT OPENING IN EXISTING ROOFING SYSTEM AND METAL DECK AS REQUIRED TO INSTALL OPENINGS FOR MECHANICAL DUCTS AND OR MECHANICAL EXHAUST FANS. CONTRACTOR TO PATCH AND REPAIR ROOF TO PROVIDE A WEATHERTIGHT SEAL. OPENING TO BE OF MINIMAL SIZE. REFER TO THE MPE DRAWINGS FOR RELATED WORK IN THIS AREA.
  - R3 CONTRACTOR TO PROVIDE CRICKETS AT ALL ROOFTOP EQUIPMENT, PIPING, AND DUCT PENETRATIONS AS REQUIRED TO PROVIDE POSITIVE DRAINAGE.
  - R4 NEW CONDENSING UNIT ON GALVANIZED STEEL SUPPORTS WELDED TO EXISTING DUNNAGE.
  - R5 CONTRACTOR TO PROVIDE AND INSTALL GALVANIZED STEEL CATWALK STRUCTURE/DUNNAGE. CATWALK TO HAVE GALVANIZED STEEL GRATING AND A 42" HIGH PIPE RAILING WITH INTERMEDIATE HORIZONTAL RAILING. REFER TO STRUCTURAL DRAWINGS.
  - R6 CONTRACTOR TO PROVIDE MANUFACTURER ROOF CURB WITH STRUCTURAL STEEL SUPPORTS AND BASE FLASHING AS REQUIRED TO SUPPORT DUCTWORK AND PROVIDE A WATER TIGHT SEAL.
  - R7 STRUCTURAL STEEL DUNNAGE. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION. CONTRACTOR TO CUT EXISTING ROOFING SYSTEM AS REQUIRED TO INSTALL ROOF DUNNAGE. REFER TO STRUCTURAL AND MPE DRAWINGS FOR RELATED WORK. CONTRACTOR TO PATCH AND REPAIR ROOF TO PROVIDE A WEATHERTIGHT SEAL.
  - R9 GALVANIZED CATWALK STAIR WITH RAILING. REFER TO DETAILS ON A-301 AND STRUCTURAL DRAWINGS.
  - R10 CRYOGENIC ROOF EXCLUSION ZONE. REFER TO VENDOR DRAWINGS. PROVIDE GALVANIZED POSTS AND CHAIN AROUND ROOF AREA.
  - R11 EXISTING ROOF MOUNTED PIPING AND/OR DUCTWORK TO REMAIN. PROTECT.
  - R12 REFER TO DETAIL B3/A-301.
  - R13 REFER TO DETAIL B5/A-301.
  - R14 REFER TO DETAIL A3/A-301.
  - R15 REFER TO DETAIL A5/A-301.

**GENERAL CONSTRUCTION NOTES**

ALL CONSTRUCTION AND MATERIALS FOR MRI ROOM 2/ ZONE 4 - W180C AND MRI CONTROL ROOM/ ZONE 3 - W204F ARE TO BE NON-FERROMAGNETIC, NON-FERROMAGNETIC MATERIALS INCLUDING BUT NOT LIMITED TO REMOVABLE COVERS, SWITCH BOX COVER PLATES, LIGHT FIXTURE COMPONENTS, MOUNTING SCREWS, ETC. TO MINIMIZE POTENTIAL HAZARD IN THE MAGNET ROOM.

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**OWNER:**

**COLUMBIA DOCTOR'S TARRYTOWN**

**PROJECT:**

**NEW MRI**

155 WHITE PLAINS ROAD  
TARRYTOWN, NY 10591

**KEY PLAN**

W - WEST BUILDING  
E - EAST BUILDING

TRUE NORTH PROJECT NORTH

**SHEET TITLE:**

**ROOF PLAN**

**SEAL:**

DATE: 06/18/2021  
CON/REF No.  
CONTRACT No.  
SCALE: AS NOTED  
PROJECT No. 6109  
CHECKED: CH  
DRAWN: KU

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**SHEET TITLE:**  
**ROOF DETAILS**

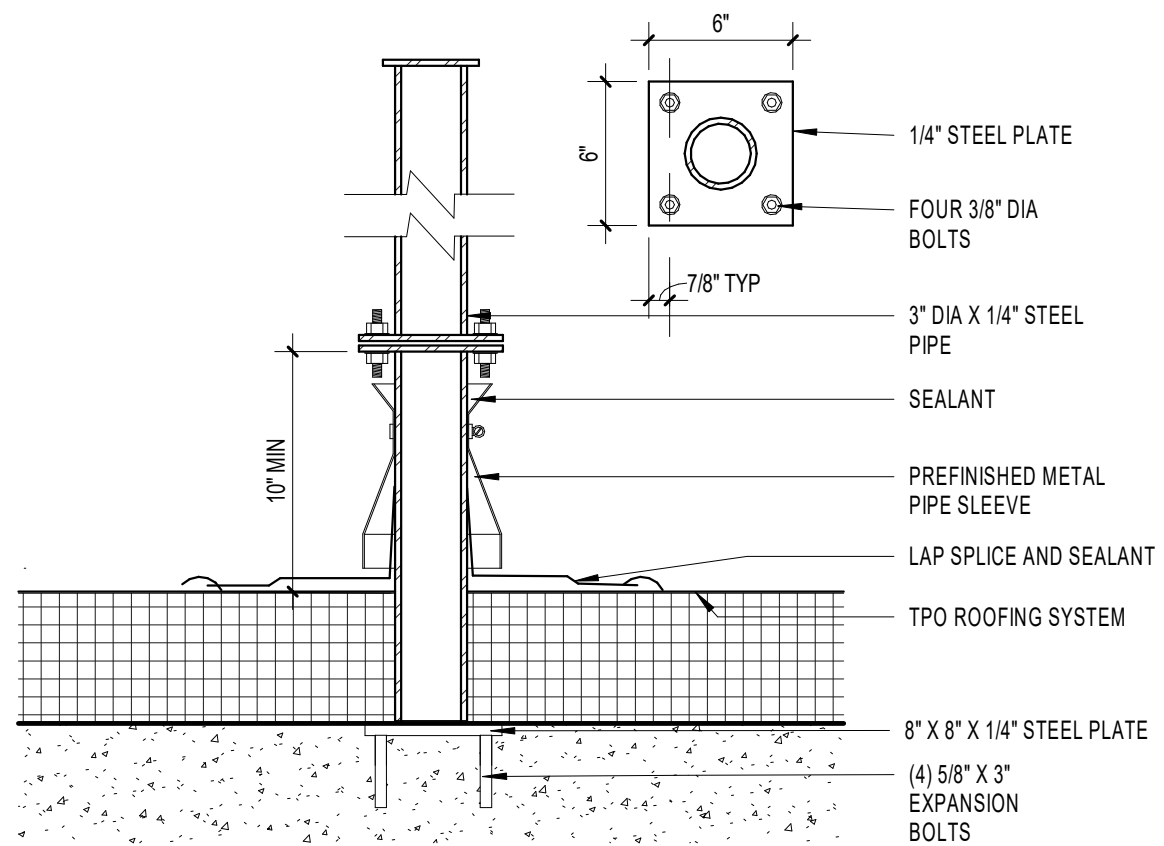
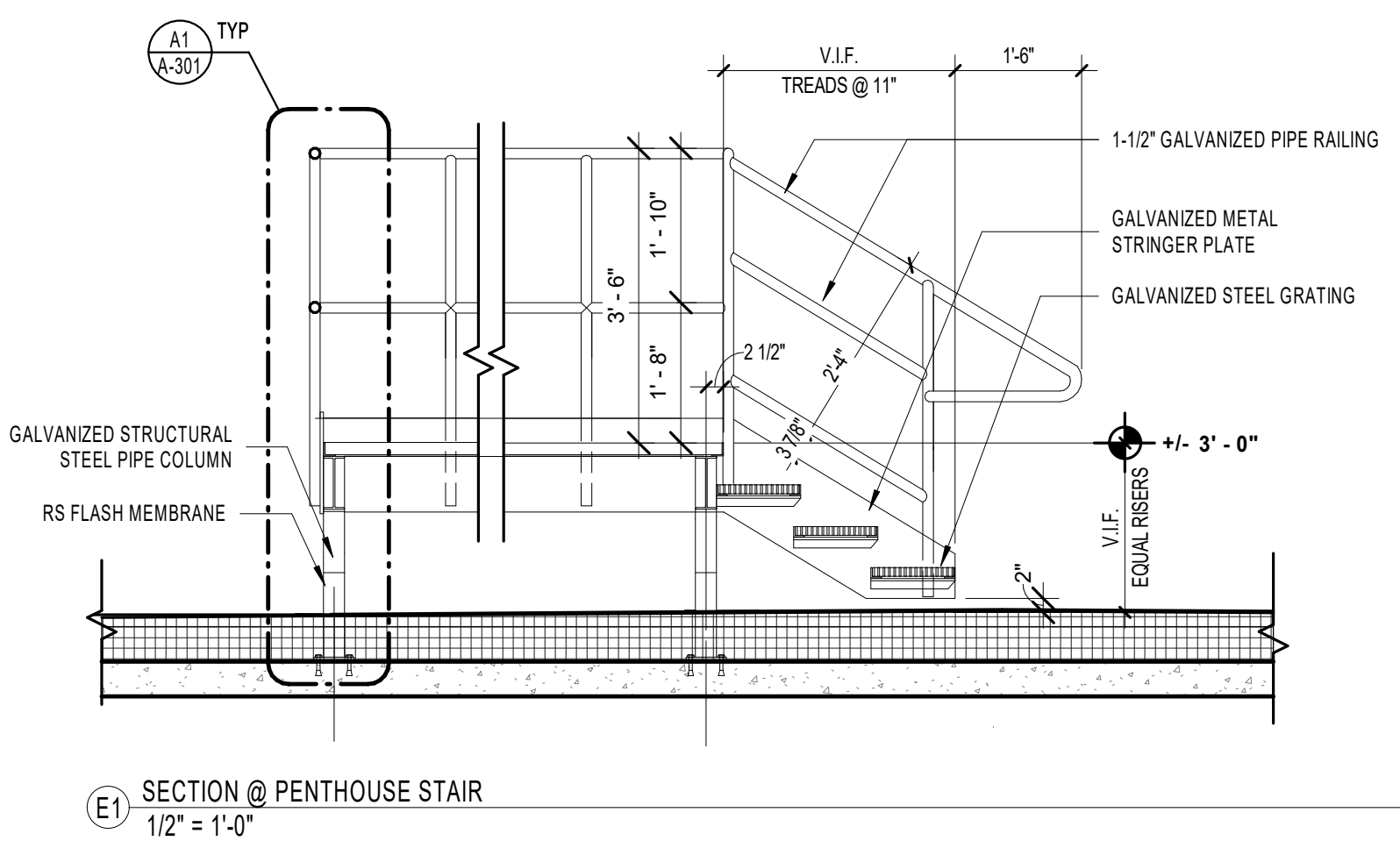
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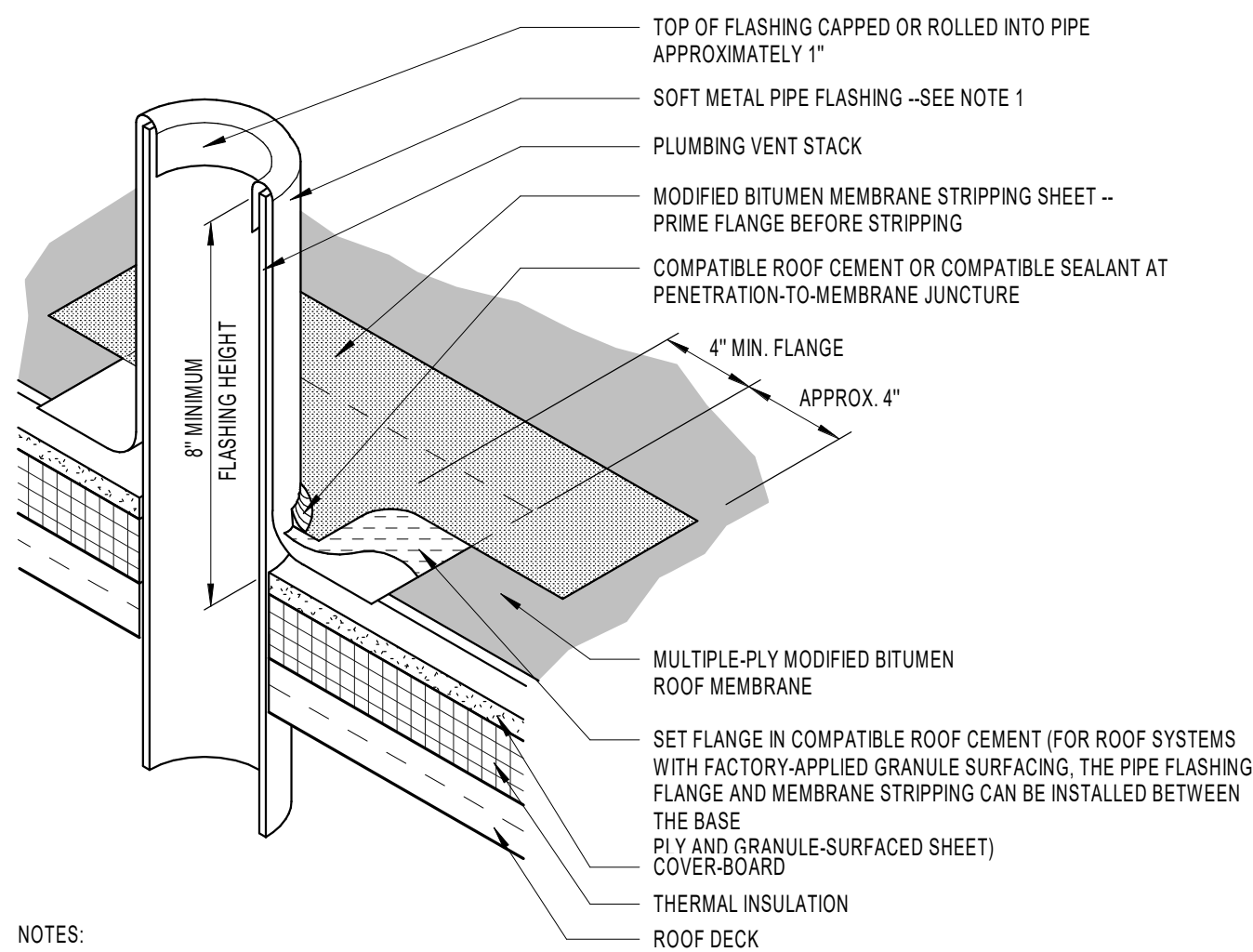
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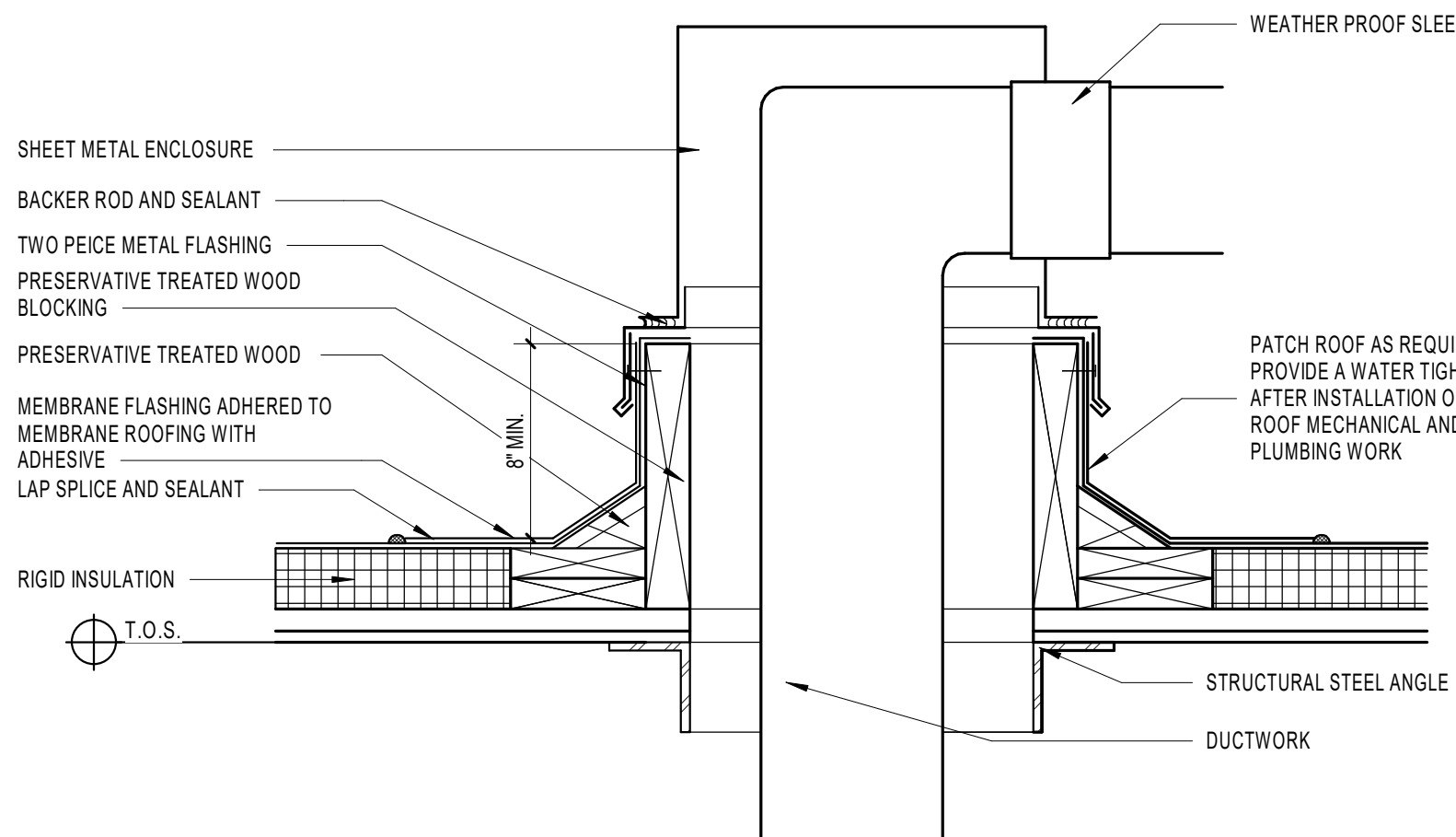


C1 ROOF STAIR SUPPORT ON CONCRETE STRUCTURE  
1 1/2" = 1'-0"

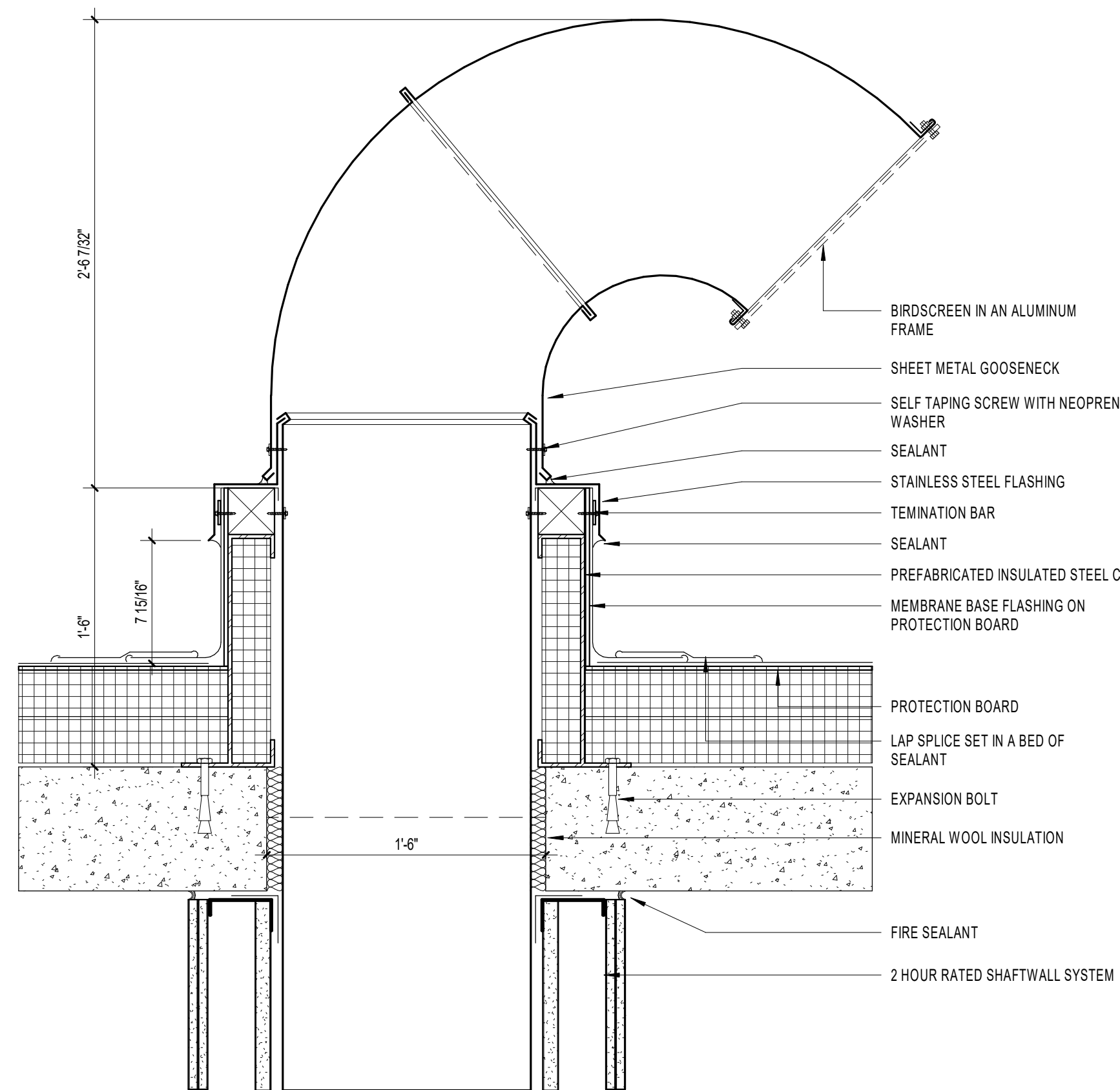


- NOTES:
1. SOFT METAL PIPE FLASHING:  
- SHEET LEAD, MINIMUM OF 2 1/2 LB. PER SQUARE FOOT OR SHEET COPPER, MINIMUM 16 OZ.  
PRECAUTIONS SHOULD BE TAKEN NOT TO DAMAGE THE SHEET LEAD WHEN USING HEAT-WELDED APPLICATION.
2. IF USING COPPER FLASHING OVER AN IRON OR STEEL PIPE, INSERT A SEPARATOR SHEET (E.G., ASPHALT-SATURATED ROOFING FELT) WRAPPED AROUND PIPE TO SEPARATE THE COPPER FLASHING FROM DIRECT CONTACT WITH PIPE AND REDUCE GALVANIC ACTION.
3. VENT STACKS AND DOWNS SHOULD HAVE A MINIMUM OF 1/2" OF CLEARANCE ON ALL SIDES FROM WALLS, CURBS AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING. SEE THE BURMB INTRODUCTION FOR ADDITIONAL INFORMATION.
4. REFER TO THE BURMB INTRODUCTION OF THE NRCA ROOFING MANUAL FOR ADDITIONAL INFORMATION.

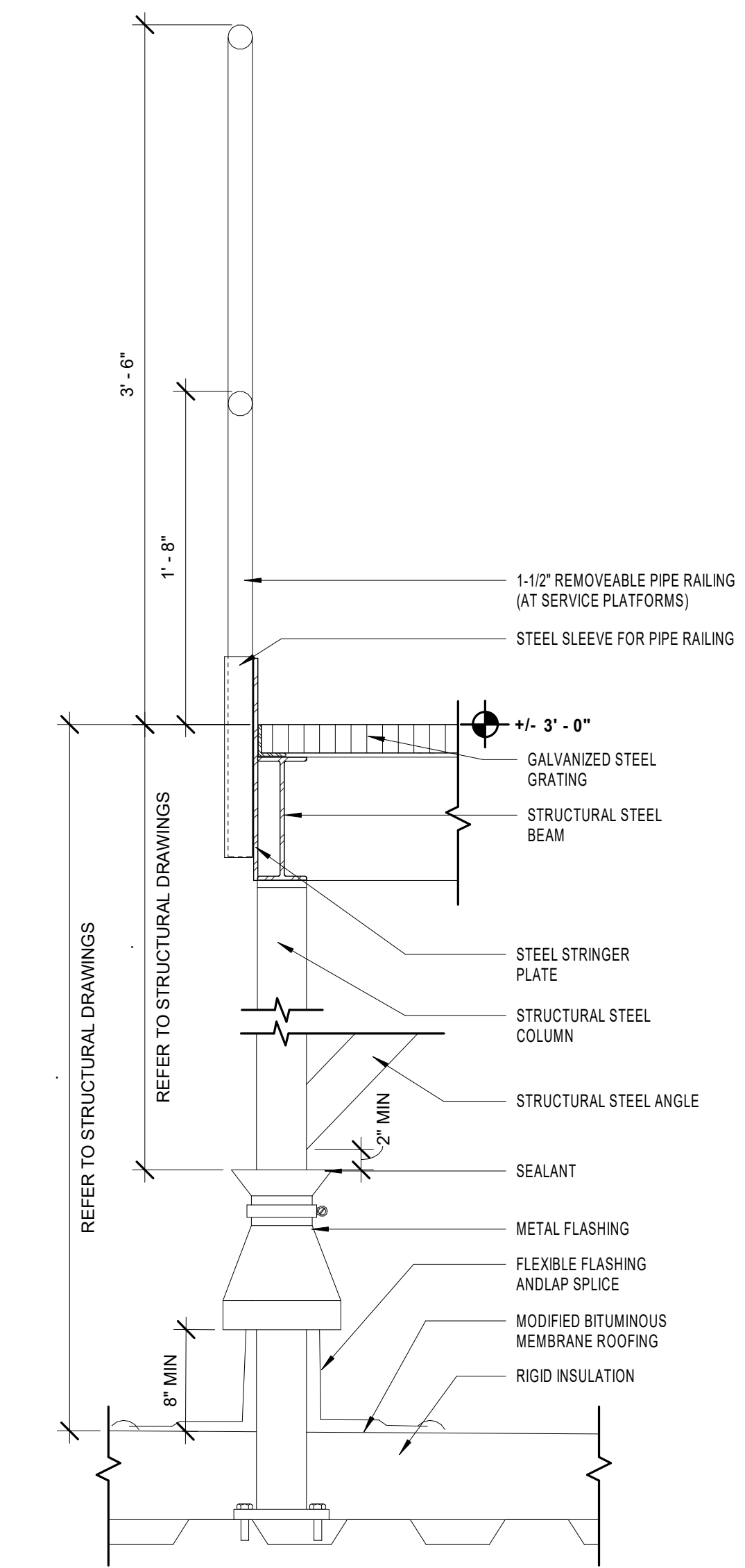
**D3 PLUMBING VENT DETAIL**  
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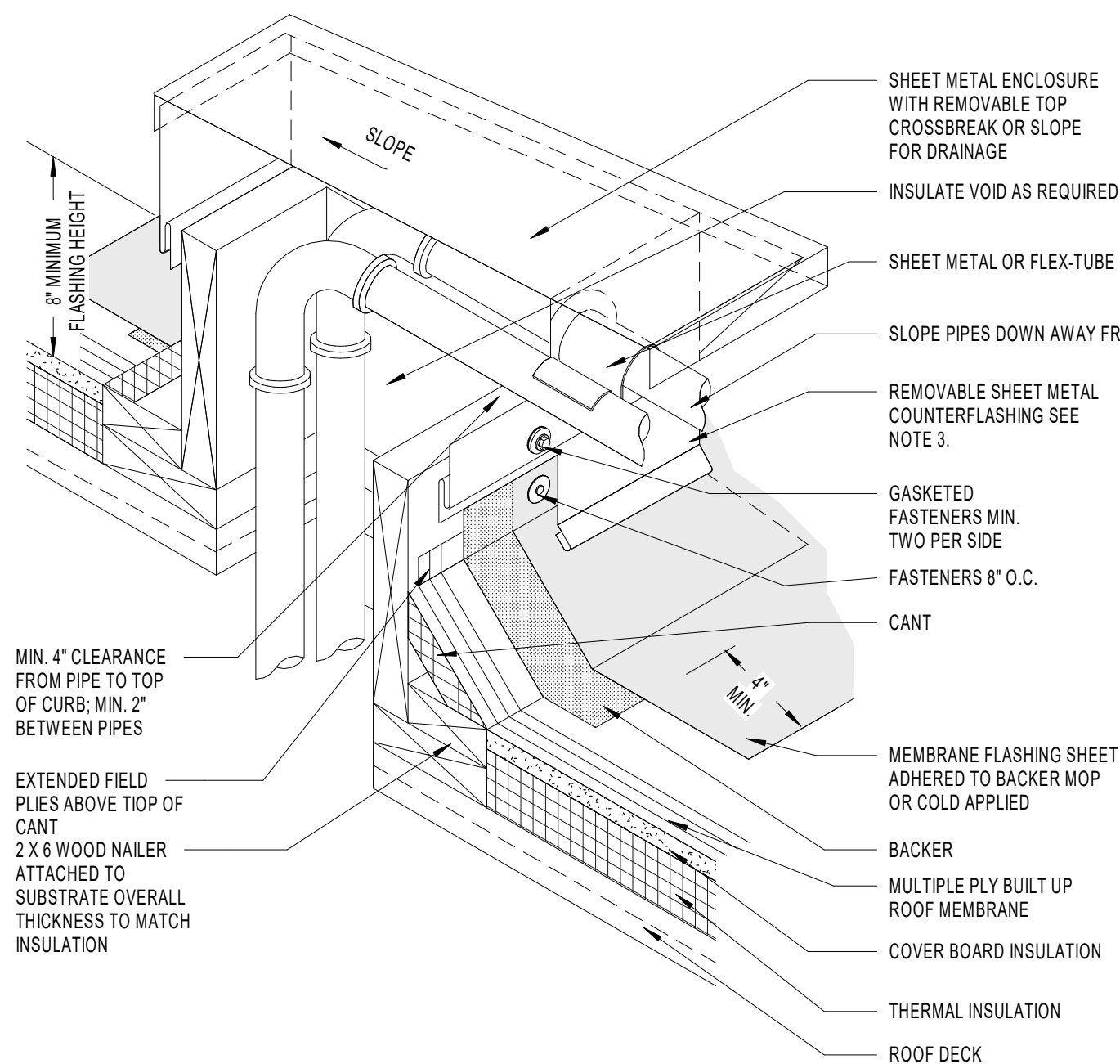
(B3) MECHANICAL DUCT ENCLOSURE DETAIL  
1 1/2" = 1'-0"



(B5) DETAIL AT GOOSE NECK VENT  
1 1/2" = 1'-0"

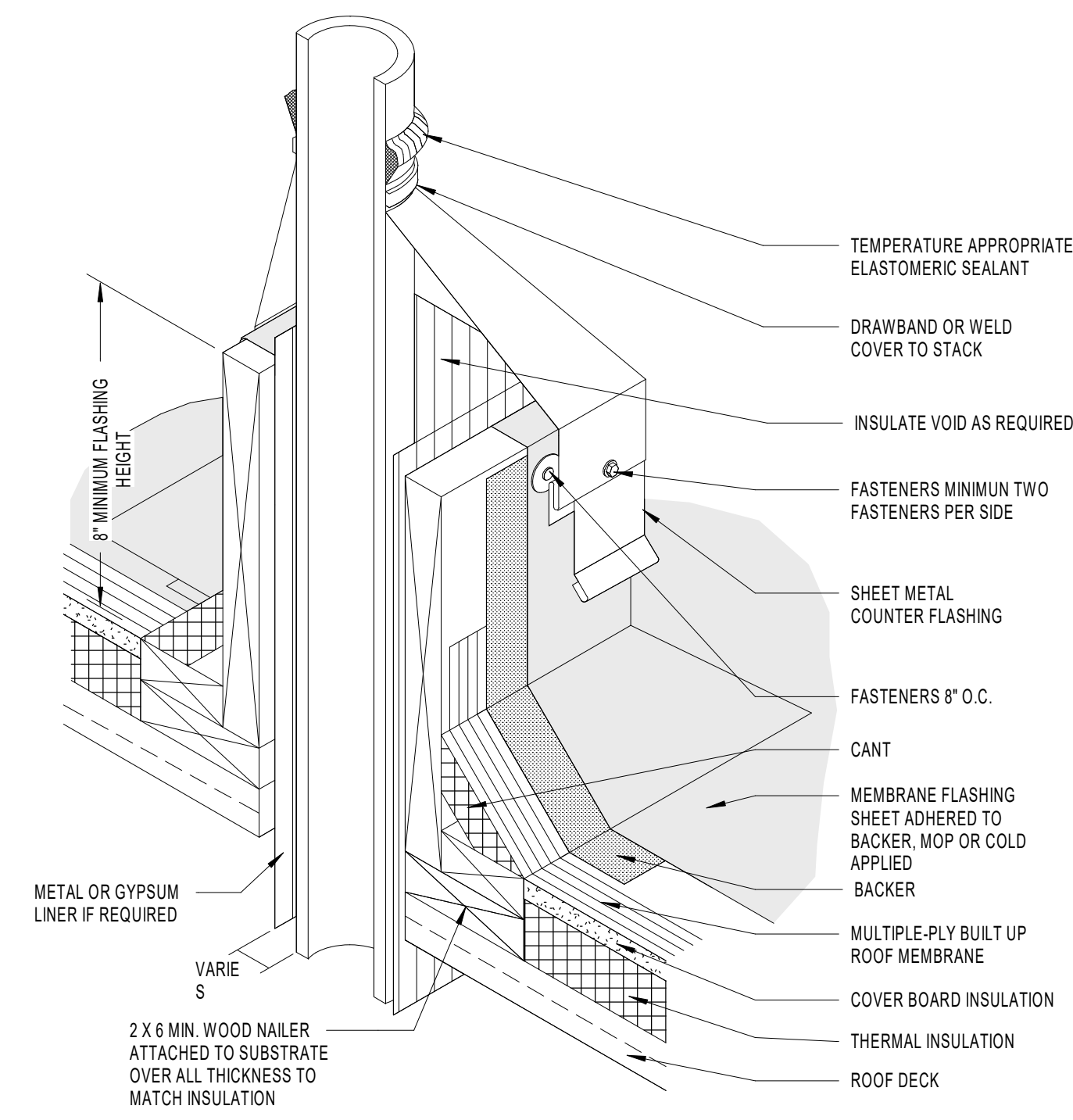


(A1) STAIR 7 - LANDING SECTION  
1 1/2" = 1'-0"



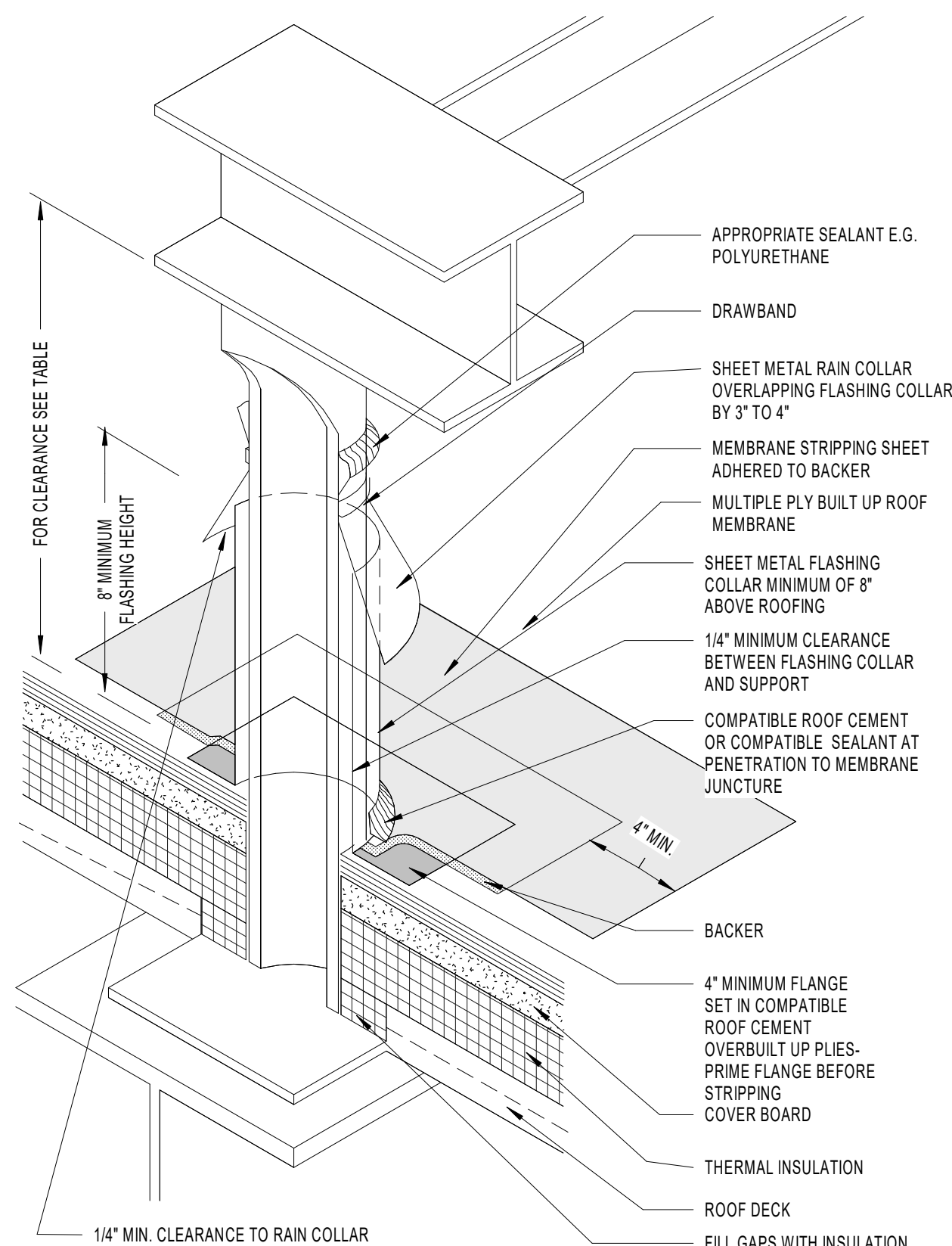
- NOTES:
1. THIS DETAIL ILLUSTRATES ANOTHER METHOD OF ELIMINATING PITCH POCKETS AND OPTIONAL METHOD OF GROUPING PIPING THAT MUST PENETRATE THE ROOF.
  2. MANY MANUFACTURERS OFFER PREFABRICATED BOOTS AND OTHER MATERIALS FOR THIS PURPOSE. SPECIFICS ON THESE PROPRIETARY DESIGNS VARY GREATLY AND INDIVIDUAL MANUFACTURERS' SPECIFICATIONS SHOULD BE CONSULTED FOR THEIR USE.
  3. WHERE SHEET METAL ENCLOSURE OVERLAPS THE BASE FLASHING AT LEAST 3" THE REMOVABLE SHEET METAL COUNTERFLASHING IS NOT REQUIRED.
  4. REFER TO THE BURIM BUILT-INSTRUCTION FOR ADDITIONAL INFORMATION.

**DECK**  
1 1/2" = 1'-0"



- NOTES:
1. THIS DETAIL ALLOWS THE OPENING TO BE COMPLETED BEFORE THE STACK IS PLACED.
  2. THE CLEARANCE NECESSARY BETWEEN THE OPTIONAL GYPSUM OR METAL LINER AND THE STACK AND THE NEED FOR INSULATION WILL DEPEND ON THE TEMPERATURE OF THE MATERIAL HANDLED BY THE STACK.
  3. REFER TO THE ARCHITECTURAL SHEET METAL SECTION OF THE NRCA ROOFING AND WATERPROOFING MANUAL FOR DETAILS AND SECUREMENT OPTIONS FOR SHEET METAL.
  4. REFER TO THE BURMIS INTRODUCTION FOR ADDITIONAL INFORMATION.

**A5** MOP OR COLD APPLIED FLASHING AT ISOLATED STACK FLASHING  
1 1/2" = 1'-0"

































- NOTES:  
1. REFER TO THE BUR/MB INTRODUCTION FOR ADDITIONAL INFORMATION.

**A7** EQUIPMENT SUPPORT STAND AND TYPICAL RAIN COLLAR  
1 1/2" = 1'-0"



EQUIPMENT SCHEDULE											
EQUIPMENT INFORMATION					RESPONSIBILITIES		Blocking/Support System	Mechanical Rough-Ins	Plumbing Rough-Ins	Electrical Rough-Ins	Communication Rough-Ins
Mark	DESCRIPTION	MFR.	MODEL	PLACED BY	INSTALLED BY						
MRI	MRI w/Pedestal and Transport Table	GE Healthcare	M03-00G/M03-15G/M3 3006	VENDOR	VENDOR	Yes					
INJ	PORTABLE INJECTOR ARM, MRI SAFE	TBD	TBD	VENDOR	VENDOR	Yes	No	No	Yes	Yes	
PHC	Chair, Blood Draw	Clinical Industries	Recliner Series Hi-Lo	CONTRACTOR	CONTRACTOR						
GL	Dispenser, Glove 3 Box	Bowman Manufacturing Company	GS-006	OWNER	CONTRACTOR	Yes	No	No	No	No	
VT	Oto/Ophthalmoscope Set, w/ Sphygmomanometer	Welch Allyn, Inc. - Med Division	767 series	CONTRACTOR	CONTRACTOR						
SC	Stadiometer and scale	Datenco	PO100 and DHR Q5112E	CONTRACTOR	CONTRACTOR	Yes	Yes	Yes	Yes	Yes	
RB	Receptacle, Bio-hazardous waste	Rubbermaid		OWNER							
WS	Receptacle, Waste	Terra Universal, Inc.	EP304SS 1456-18B	OWNER	N/A	Yes	Yes	Yes	Yes	Yes	
PACS	PACS station	NEC Display	MD212MC	CONTRACTOR	CONTRACTOR	No	No	No	Yes	Yes	
PR-1	Copier/printer/fax	TBD	TBD	CONTRACTOR	CONTRACTOR						
COMP	Computer w/ Keyboard and Mouse	TBD	TBD	CONTRACTOR	CONTRACTOR	No	No	No	Yes	Yes	
MM	Magnet Monitor	GE Healthcare		CONTRACTOR	CONTRACTOR	No	No	No	Yes	Yes	
EX	Exam Table	Ritter	222	CONTRACTOR	CONTRACTOR						
MD	Metal Detector	METRASENS	FERROGUARD	CONTRACTOR	CONTRACTOR	Yes	No	No	Yes	Yes	
CG	CRYO COOLER	GE Healthcare		CONTRACTOR	CONTRACTOR	No	No	Yes	Yes	Yes	
CPU	OPERATOR WORKSPACE CABINET	GE Healthcare	M06-15E	VENDOR	VENDOR	No	No	No	Yes	Yes	
CRU	CONTROL ROOM UNIT	GE Healthcare	E89-04S	VENDOR	No	No	No	No	Yes	Yes	
CWB	MANUAL CITY WATER BYPASS	GE Healthcare	MANUAL	CONTRACTOR	CONTRACTOR	Yes	Yes	Yes	Yes	Yes	
HEC	HEAT EXCHANGER CABINET	GE Healthcare		CONTRACTOR	CONTRACTOR	Yes	Yes	Yes	Yes	Yes	
IPS	INJECTOR POWER SUPPLY	GE Healthcare		CONTRACTOR	CONTRACTOR	Yes	Yes	No	Yes	Yes	
MDS	Two-Tier Lockin, 12x15"x7" Sloped Top	SALSBUURY	62165	CONTRACTOR	CONTRACTOR	Yes	No	No	No	No	
MP	MAIN DISCONNECT PANEL	GE Healthcare		CONTRACTOR	CONTRACTOR	No	No	No	Yes	Yes	
MRE	MR ELASTOMERY MACHINE	GE Healthcare		CONTRACTOR	CONTRACTOR	Yes	Yes	Yes	Yes	Yes	
MRU	MAGNET RUNDOWN UNIT	GE Healthcare		CONTRACTOR	CONTRACTOR	Yes	No	No	Yes	Yes	
O2	ROOM OXYGEN MONITOR	GE Healthcare		CONTRACTOR	CONTRACTOR	Yes	No	No	Yes	Yes	
PA	PATIENT ALERT CONTROL BOX	GE Healthcare	M48-15	VENDOR	VENDOR						
PCR	POWER GRADIENT CABINET	GE Healthcare		CONTRACTOR	CONTRACTOR	Yes	No	No	Yes	Yes	
PEN	PEN PANEL CABINET (PEN)	GE Healthcare		Vendor	Vendor	Yes	No	No	Yes	Yes	
PH	SPT PHANTOM CABINET	GE Healthcare		Vendor	Vendor		No	No	Yes	Yes	
PHC	PHLEBOTOMY CHAIR	BY OWNER		OWNER	OWNER	No	No	No	No	No	
RGD	MR MUSIC SYSTEM	GE Healthcare		VENDOR	VENDOR						
SC	Document Scanner	Fujitsu	6-7160	CONTRACTOR	CONTRACTOR	Yes	Yes	Yes	Yes	Yes	
SPC	SECONDARY RF PENETRATION PANEL	GE Healthcare		Vendor	Vendor	Yes	Yes	No	Yes	Yes	
COMP	OPERATOR WORKSPACE W/ COLOR LCD MONITOR	GE Healthcare	M30-150	VENDOR	VENDOR	No	No	No	Yes	Yes	
MM	CCTV MONITOR - WALL MOUNTED	GE Healthcare		VENDOR	VENDOR	No	No	No	Yes	Yes	
MON	REMOTE GRAPHIC DISPLAY	GE Healthcare		CONTRACTOR	CONTRACTOR	No	No	No	Yes	Yes	
HMD	HE HANDHELD METAL DETECTOR	GE Healthcare		VENDOR	VENDOR	Yes	No	No	No	No	
WS	Compact Kidney Shaped Work Surface	Midmark	6205-001	OWNER	OWNER						
WF	WATER FILTER	GE Healthcare		CONTRACTOR	CONTRACTOR	Yes	No	Yes	Yes	Yes	

EQUIPMENT SYMBOL LEGEND	
<b>ELECTRICAL EQUIPMENT TAG</b>	
<b><u>NURSE CALL</u></b>	
 IL	INDICATOR LIGHT
<b><u>TELEPHONE/DATA</u></b>	
 D	DATA
 PHY	PHYSIO MONITOR
 T	TELEPHONE
 TID	TEL/DATA COMBO
 TV	TELEVISION
 WT	WALL TELEPHONE
<b><u>ELECTRICAL</u></b>	
 E	DUPLEX EMERGENCY POWER
 GF	DUPLEX GROUND FAULT
 N	DUPLEX NORMAL POWER
 Q	QUAD EMERGENCY POWER
 GF	QUAD GROUND FAULT
 N	QUAD NORMAL POWER
 JB	JUNCTION BOX
 LS	LIGHT SWITCH
 3LS	LIGHT SWITCH 3-WAY
 DS	DIMMER SWITCH
 OS	OCCUPANCY SENSOR
 VAC	VACUUM SENSOR
<b><u>DOOR HARDWARE</u></b>	
 CR	CARD READER
 KP	KEY PAD
 HO	MAGNETIC HOLD OPEN
<b><u>FIRE ALARM</u></b>	
 PS	PULL STATION
 S	STROBE
 SS	SPEAKER AND STROBE
 TB	TERMINAL BOX
 WS	WARDEN STATION
<b><u>MECHANICAL</u></b>	
 RPM	ROOM PRESSURE MONITOR
 RPS	ROOM PRESSURE SENSOR
 T	THERMOSTAT

# ELECTRICAL & TELECOMMUNICATIONS OUTLETS GENERAL NOTES

1. FOR ELECTRICAL OUTLETS NOT SHOWN IN PLANS REFER TO INTERIOR ELEVATIONS OR ELECTRICAL DRAWINGS.
2. FOR TELECOMMUNICATIONS OUTLETS NOT SHOWN IN PLANS REFER TO INTERIOR ELEVATIONS OR TELECOMMUNICATIONS DRAWINGS.

# FIRE ALARM DEVICES GENERAL NOTES

1. FOR FIRE ALARM DEVICES NOT SHOWN IN PLANS REFER TO INTERIOR ELEVATIONS OR FIRE ALARM DRAWINGS.

# EQUIPMENT GENERAL NOTES

1. CONTRACTOR SHALL REVIEW AND COORDINATE WITH THE EQUIPMENT MANUAL AND /OR EQUIPMENT SCHEDULE FOR SCOPE OF WORK AND RESPONSIBILITY IN THE PURCHASING, PLACEMENT AND INSTALLATION OF EQUIPMENT.
2. CONTRACTOR SHALL PROVIDE ALL MFR ROUGH-INS FOR ALL EQUIPMENT AS INDICATED ON THE DRAWING AND /OR EQUIPMENT MANUAL, WHETHER PROVIDED BY OWNER, OWNER VENDOR, OR GC / CM.
3. CONTRACTOR SHALL PROVIDE 1" WALL BLOCKING FOR ALL WALL MOUNTED EQUIPMENT, WHETHER PROVIDED BY OWNER, OWNER VENDOR, OR GC / CM.
4. CONTRACTOR SHALL REVIEW AND COORDINATE WITH THE VENDOR EQUIPMENT DRAWINGS FOR RESPONSIBILITY AND SCOPE OF WORK IN THE INSTALLATION OF VENDOR EQUIPMENT. ALL WORK REFERRED TO IN THE VENDOR EQUIPMENT DRAWINGS AS BY OWNER, CUSTOMER, CONTRACTOR OR BY OTHERS IS IN THE SCOPE OF WORK OF THE GC / CM.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL OWNER-FURNISHED ITEMS.

## EQUIPMENT KEYNOTES

Q1	WALL MOUNTED FRP PLYWOOD FOR CABLEING FOR GE.
Q2	LOUVERED DOORS WITH NON FERROMAGNETIC HARDWARE. PROVIDE ROLLER LATCH AND DUMMY LEVER AND NON FERROMAGNETIC FLUSH BOLTS ON INACTIVE LEAF.
Q3	MRI 1 ST MAGNET WITH GEM PATENT TABLE AND REAR PEDestal
Q4	EXISTING XGION MONITOR RELOCATED FOR MRI ONE.
Q5	FULL HEIGHT CABINETS FOR ADDITIONAL COIL STORAGE.
Q6	GO TO PROVIDE CONDUIT AND BACK MOUNTED MRI SAFE CAMERA. PROVIDE ELECTRICAL DROP AND PULLS TO DATA.
Q7	DASHED LINE INDICATES 4" O" CLEARANCE REQUIREMENT.
Q8	PROVIDE MRI SAFE CHAIR
Q9	PROVIDE 3" DIA LOW WALL OPENING FOR ROLLER CABLEING.
Q10	PROVIDE MRI INUSE LIGHT
Q11	PROVIDE 2" DIA WAVEGUIDE BELOW COUNTER FOR INJECTOR CONTROL CABLE. PROVIDE CAP FOR ACOUSTICS WHEN NOT IN USE.
Q12	CROSYGENIC VENT UP TO EXTERIOR. SEE VENDOR DRAWINGS AND MECHANICAL DRAWINGS.
Q13	GO UP BUTTON. PROVIDE A MINED PROTECTIVE COVER TO PREVENT ACCIDENTAL ACTIVATION
Q14	DASHED LINE INDICATES GE SERVICE CLEARANCE
Q15	PROVIDE PLASTIC LAMINATE SHEET WITH SUPPORT BRACKETS AT 7" AFF - FOR GE EQUIPMENT.
Q16	APPROXIMATE LOCATION OF CROSYGENIC VENT UP TO EXTERIOR. SEE MECHANICAL DRAWINGS AND MRI ENGINEER DRAWINGS. PROVIDE DETAIL BRACKET FOR DETAIL THROUGH FR SHIELDING.
Q17	MAGNETIC DETECTORS ON EITHER SIDE OF DOOR. METALFENS FERROGUARD IS BASIS OF DESIGN.
Q18	SEAL ALL PENETRATIONS TO BE SMOKE TIGHT ALTHS THIS WALL.

## GENERAL CONSTRUCTION NOTES

ALL CONSTRUCTION AND MATERIALS FOR MRI ROOM 2/ ZONE 4 - W189C AND MRI CONTROL ROOM/ ZONE 3 - W204F ARE TO BE NON-FERROMAGNETIC. NON-FERROMAGNETIC MATERIALS INCLUDING BUT NOT LIMITED TO REMOVABLE COVERS, SWITCH BOX COVER PLATES, LIGHT FIXTURE COMPONENTS, MOUNTING SCREWS, ETC. TO MINIMIZE POTENTIAL HAZARD IN THE MAGNET ROOM.

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P.C.

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360 WEST 31ST STREET  
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PHONE: 646.674.6100

**OWNER:**  
COLUMBIA DOCTOR'S  
TARRYTOWN

**PROJECT:**  
NEW MRI

155 WHITE PLAINS ROAD  
TARRYTOWN, NY 10591

W - WEST BUILDING  
E - EAST BUILDING

## KEY PLAN

NO.	DESCRIPTION	DATE
REVISIONS/ISSUES		

**SHEET TITLE:**  
**EQUIPMENT PLAN**

**SEAL:**

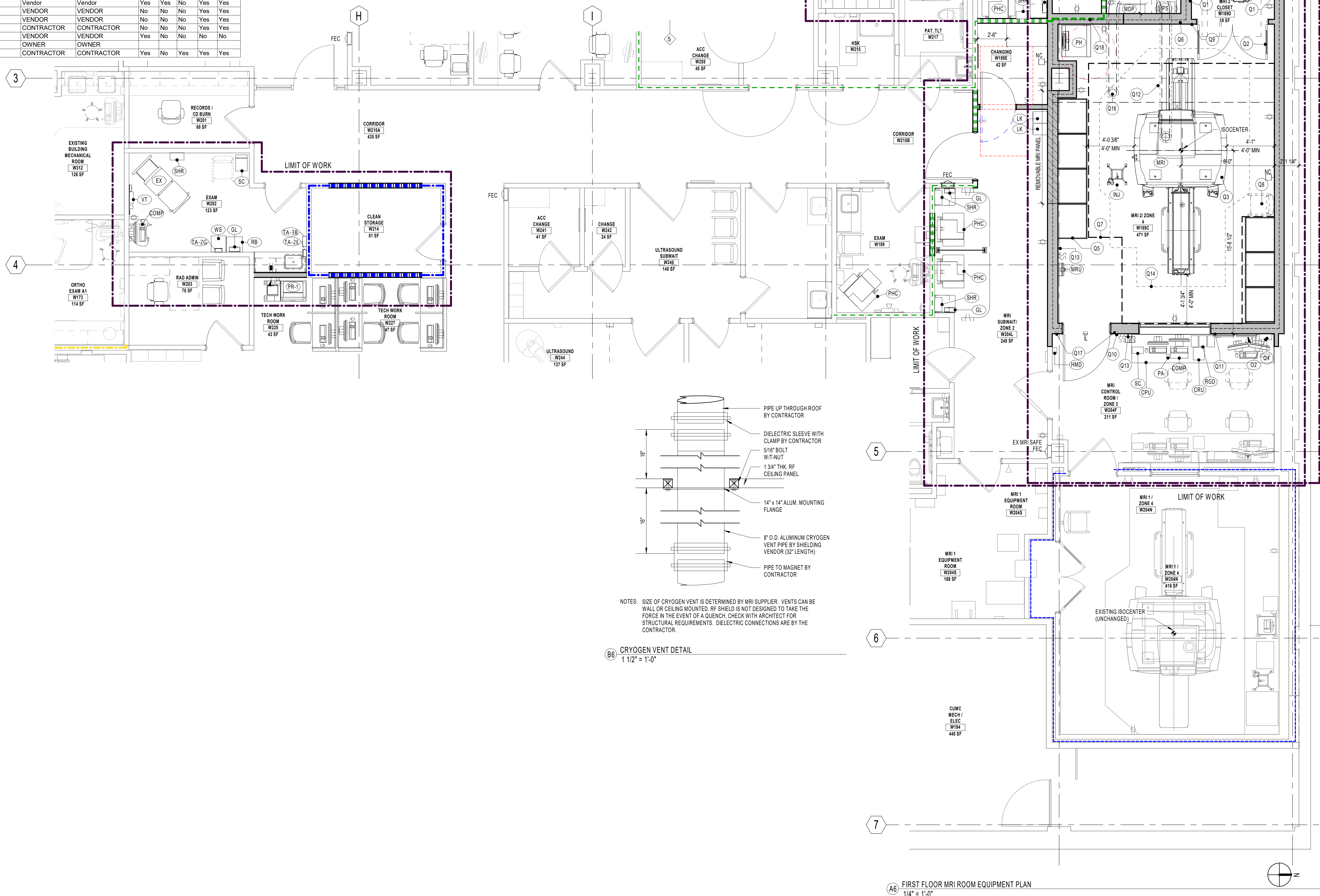
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**CON/REF No.**  
**CONTRACT No.**  
**SCALE:** AS NOTED  
**PROJECT No.** 6109  
**CHECKED:**CH  
**DRAWN:** KU

**SHEET NO.**  
**A-400.00**

DWG OF 47

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**A6 FIRST FLOOR MRI ROOM EQUIPMENT PLAN**  
1/4" = 1'-0"

CD Submission 06/18/2021

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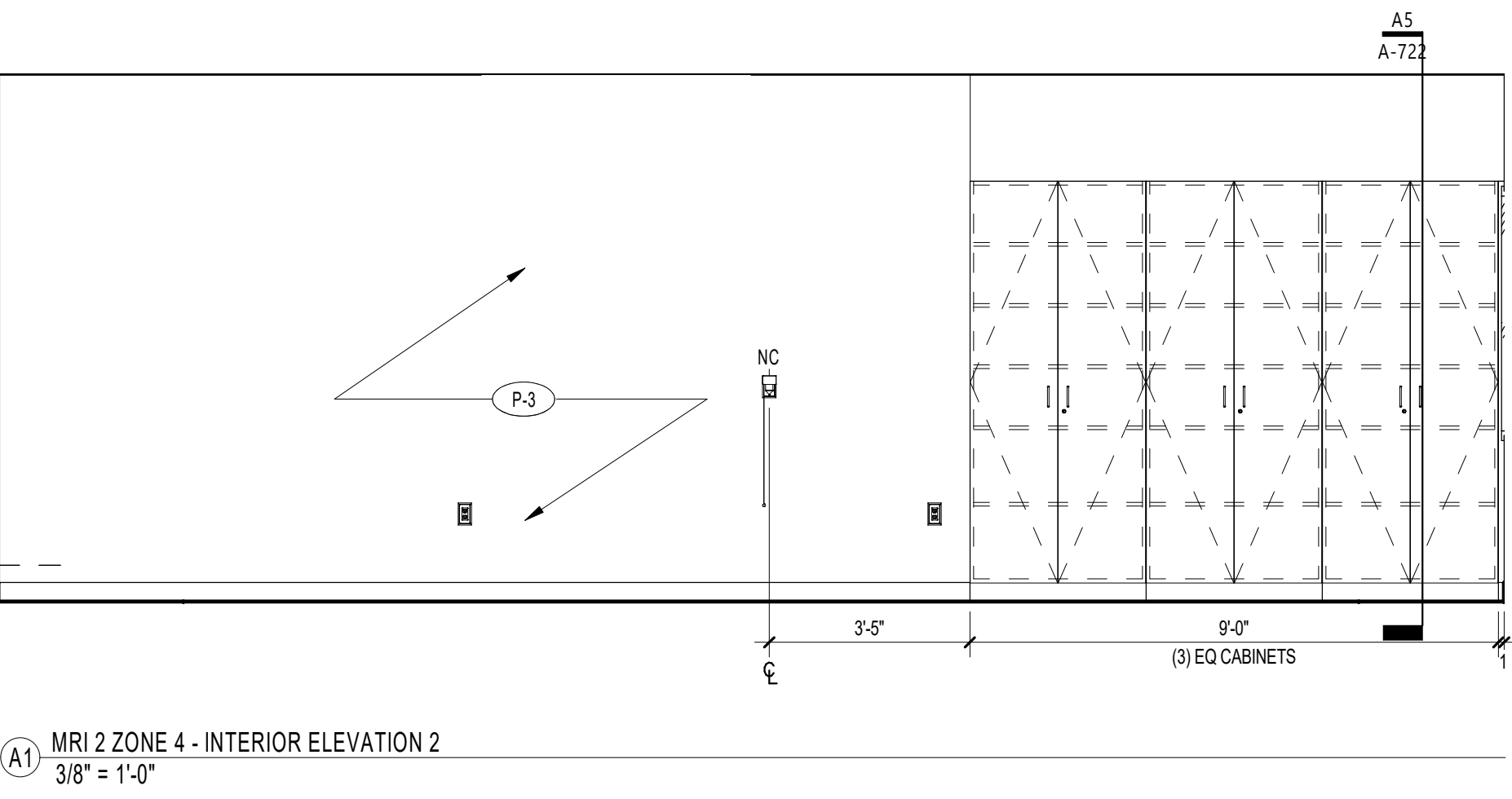






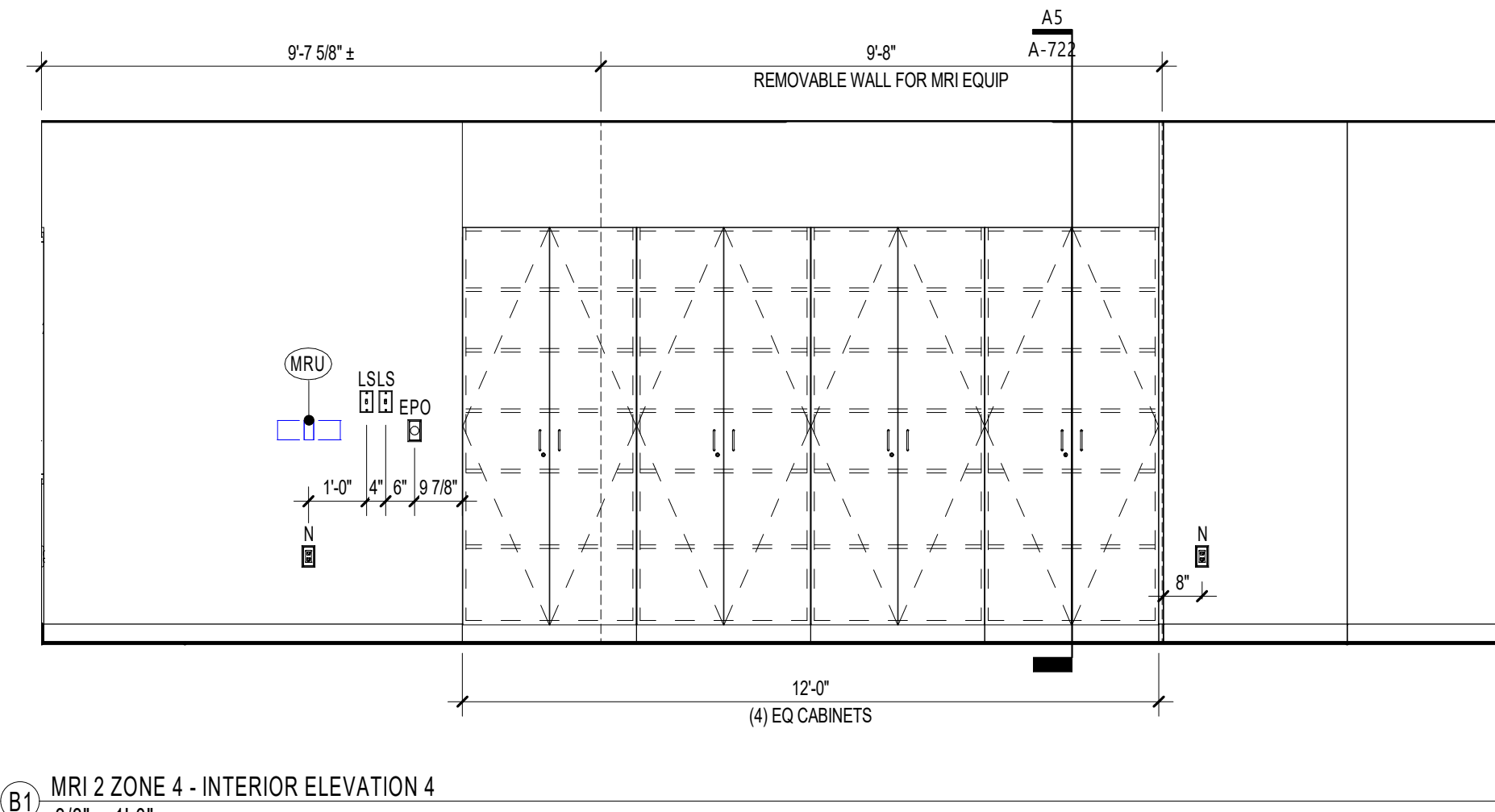
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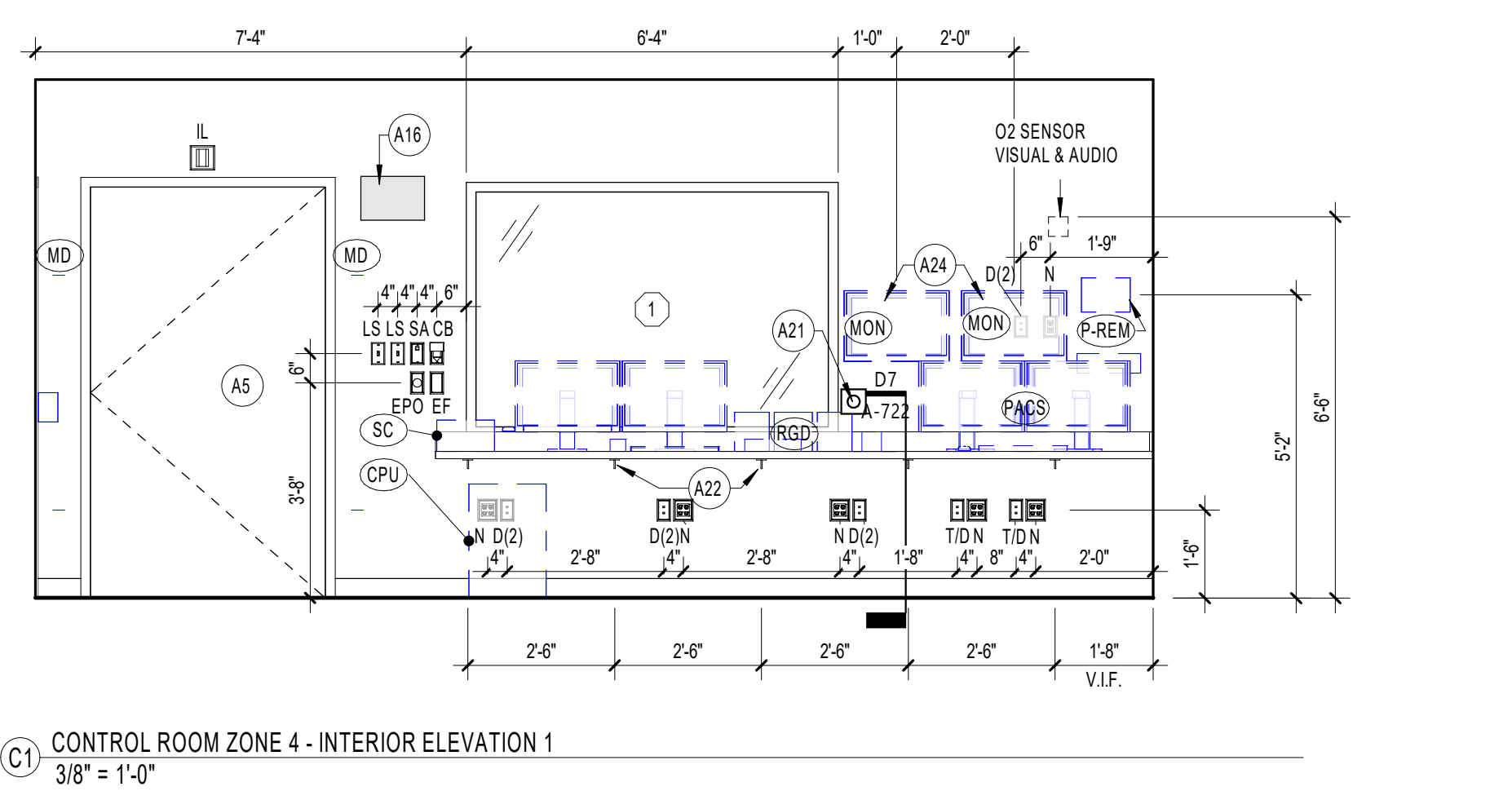
A1 MRI 2 ZONE 4 - INTERIOR ELEVATION 2  
3/8" = 1'-0"

B



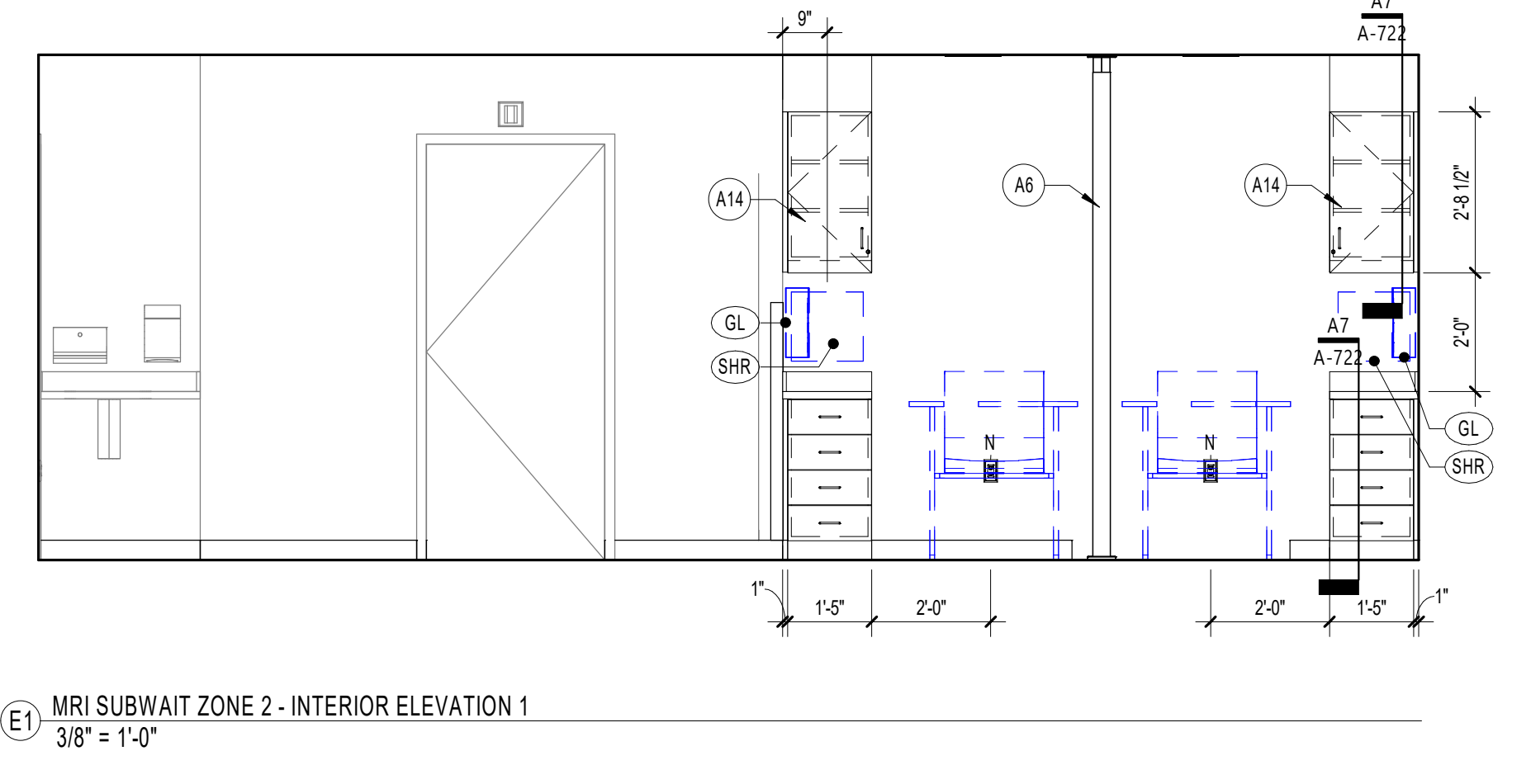
B1 MRI 2 ZONE 4 - INTERIOR ELEVATION 4  
3/8" = 1'-0"

C



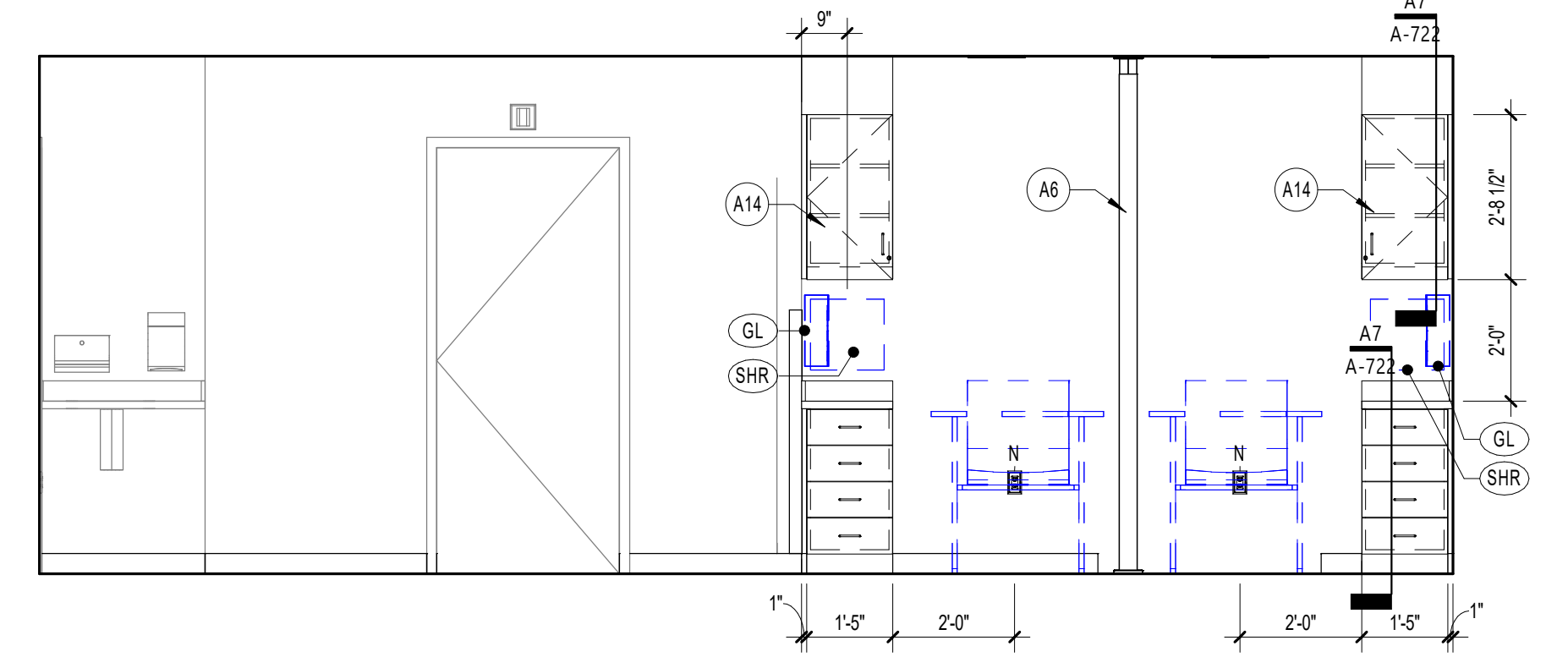
C1 CONTROL ROOM ZONE 4 - INTERIOR ELEVATION 1  
3/8" = 1'-0"

D

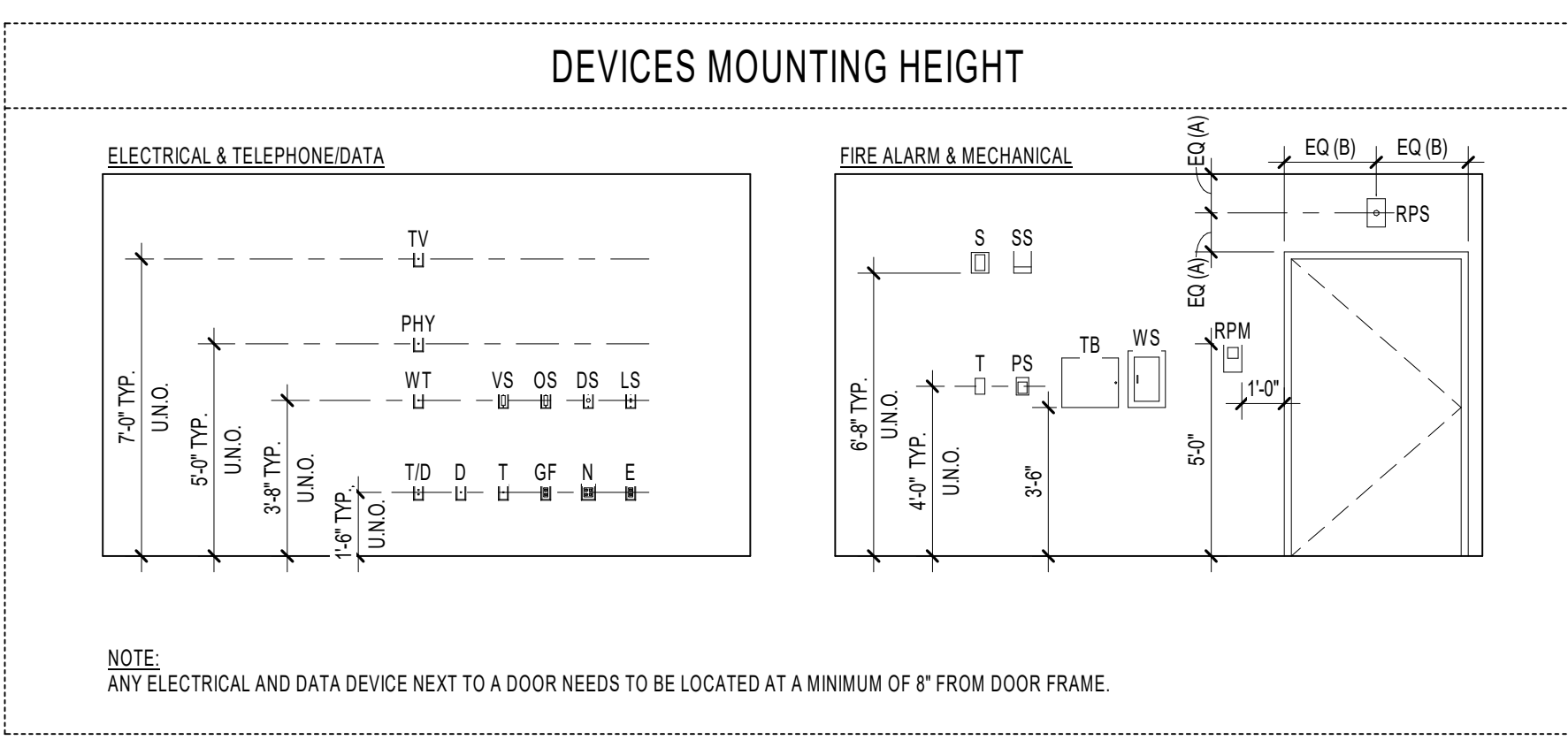


E1 MRI SUBWAIT ZONE 2 - INTERIOR ELEVATION 1  
3/8" = 1'-0"

E



F



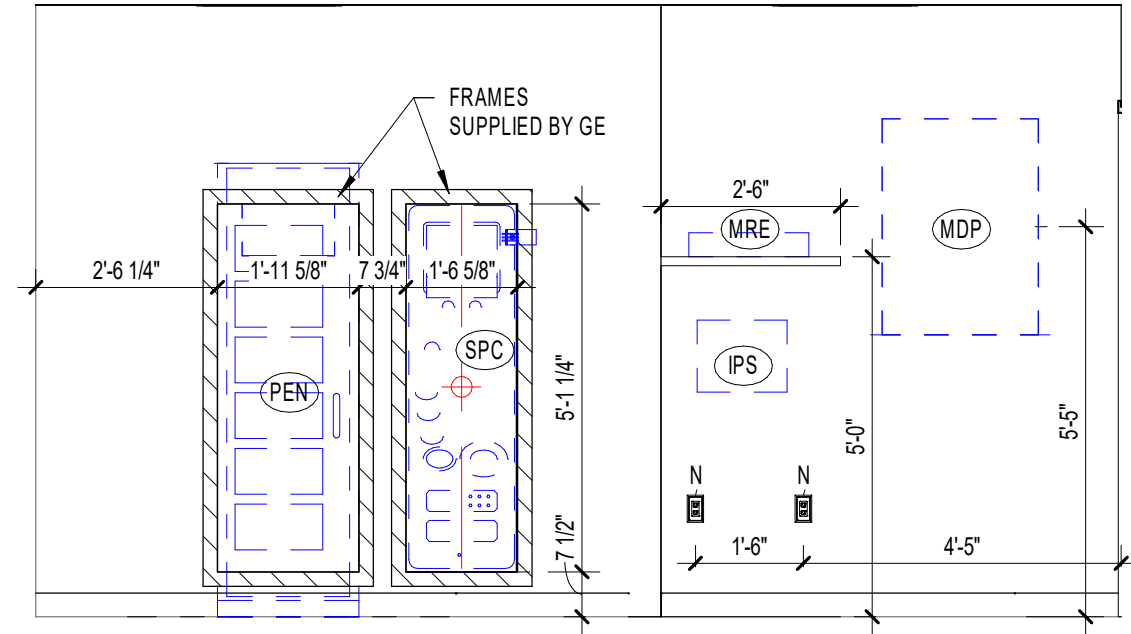
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INTERIOR ELEVATIONS SYMBOL LEGEND		
	EQUIPMENT TAG	
	NURSE CALL	
	IL INDICATOR LIGHT	
	ELECTRICAL	
	E DUPLEX EMERGENCY POWER	
	GF DUPLEX GROUND FAULT	
	N DUPLEX NORMAL POWER	
	E QUAD EMERGENCY POWER	
	GF QUAD GROUND FAULT	
	N QUAD NORMAL POWER	
	JB JUNCTION BOX	
	LS LIGHT SWITCH 3-WAY	
	DS DIMMER SWITCH	
	OS OCCUPANCY SENSOR	
	VC VACANCY SENSOR	
	TELEPHONE DATA	
	D DATA	
	T TELEPHONE	
	TD TELDATA COMBO	
	WT WALL TELEPHONE	
	MECHANICAL	
	RPM ROOM PRESSURE MONITOR	
	RPS ROOM PRESSURE SENSOR	
	T THERMOSTAT	
	DOOR HARDWARE	
	CR CARD READER	
	KP KEY PAD	
	HO MAGNETIC HOLD OPEN	
	PW PATIENT WANDERING	
	PP PUSH PLATE	
	FIRE ALARM	
	PS PULL STATION	
	S STROBE	
	SS SPEAKER AND STROBE	
	TB TERMINAL BOX	

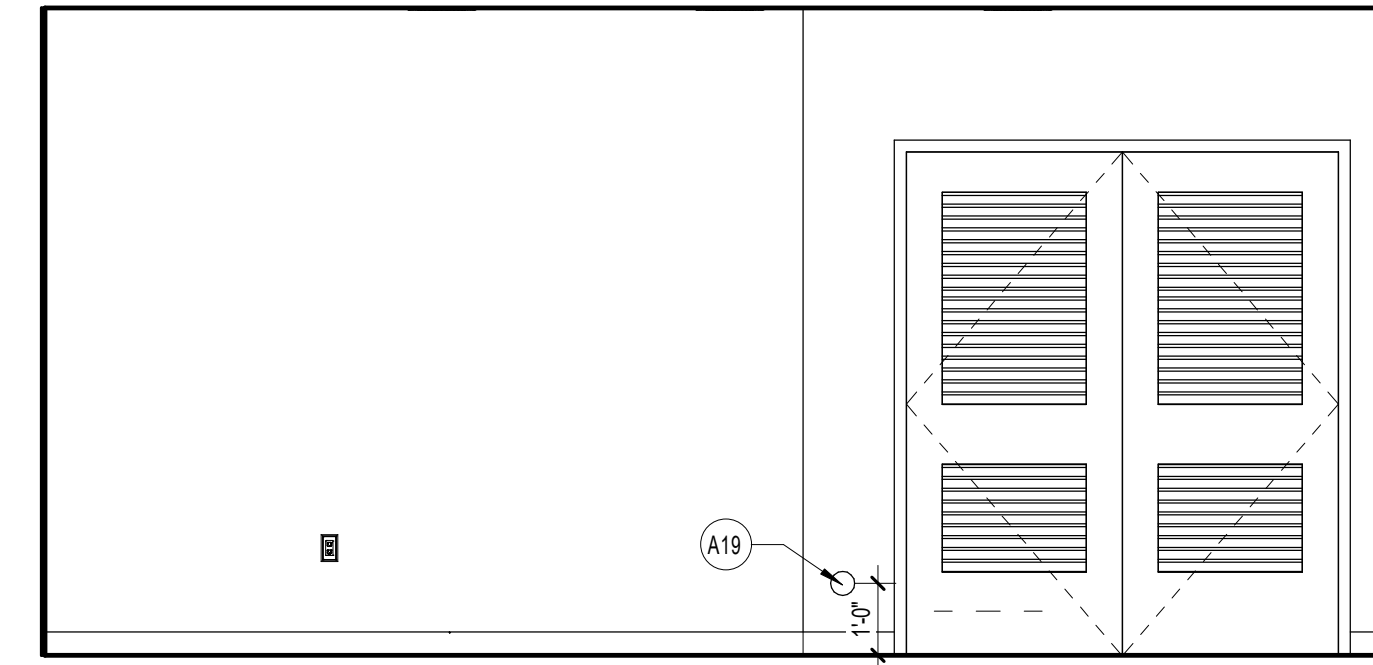
## INTERIOR ELEVATIONS SYMBOL LEGEND

## DIMENSION GENERAL NOTES

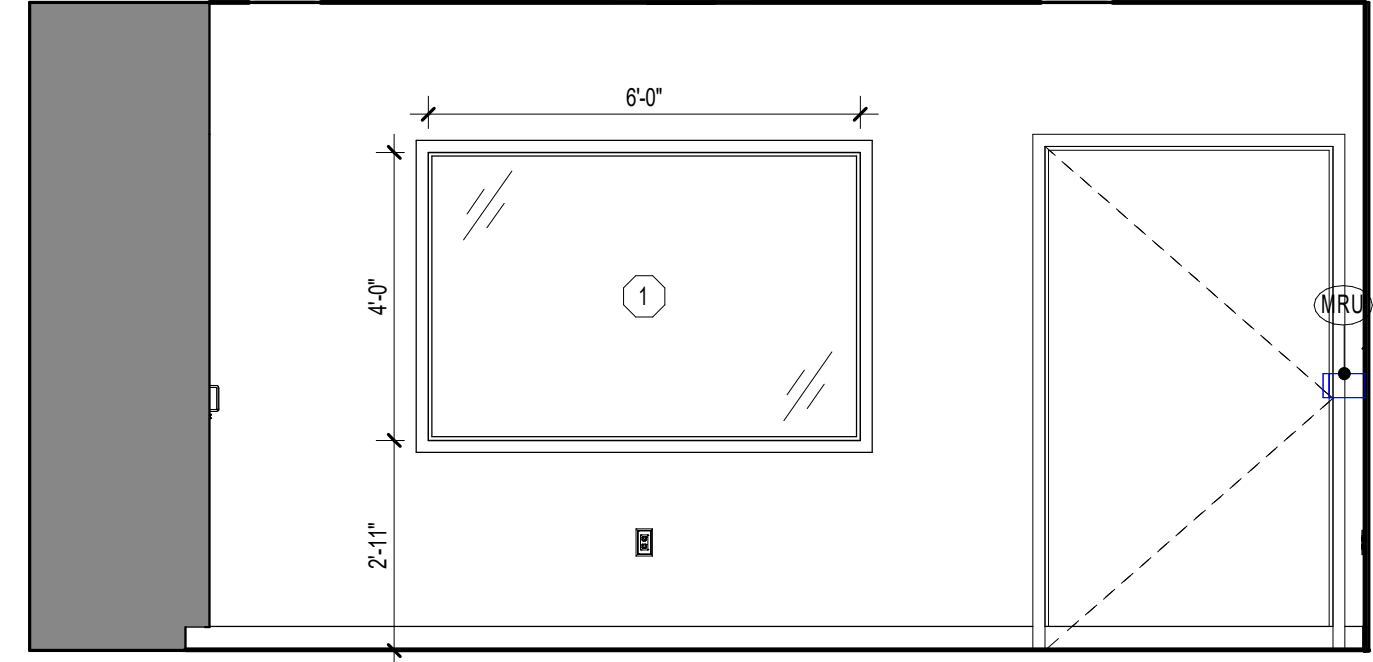
- DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO CENTERLINE OF COLUMNS. TO OUTSIDE FACE OF GYPSUM BOARD ON METAL STUD WALLS PARTITIONS. TO OUTSIDE FACE OF EXISTING WALLS. TO OUTSIDE FACE OF CONCRETE OR MASONRY WALLS. EXTREMELY CRITICAL DIMENSIONS MAY BE INDICATED AS "HOLD" OR "CLEAR".
- FOR ADDITIONAL DIMENSIONING, COMPLY WITH REQUIREMENTS ON ENLARGED PLANS, WALL SECTIONS, EXTERIOR ELEVATIONS, INTERIOR ELEVATIONS, PLAN DETAILS, AND SECTION DETAILS.
- THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE THICKNESS OF THE SCHEDULED FINISH MATERIALS SUCH AS CERAMIC TILE, SOLID SURFACE MATERIAL, ETC. PRIOR TO LAYOUT OF METAL STUD PARTITIONS OR CMU WALLS. SINCE THE TOTAL WALL THICKNESS MUST BE CONSIDERED SO THAT THE REQUIRED "MINIMUM FACE OF FINISH" AND "MINIMUM CLEAR FACE OF FINISH" DIMENSIONS CAN BE MAINTAINED AFTER THE INSTALLATION OF FINISH MATERIALS.
- IN GROUP 12 HEALTHCARE, CORRIDOR WIDTH SHALL BE 8'-0" CLEAR WHERE REQUIRED FOR BED MOVEMENT.
- REQUIRED METAL STUD WALLS/PARTITIONS/BARRIERS SHALL BE CONSTRUCTED OF 3-5/8" METAL STUDS UNLESS DIMENSIONED, DETAILED, OR NOTED OTHERWISE. THE CONTRACTOR SHALL COMPLY WITH UL DESIGN #1498 AT RATED PLUMBING WALLS/BARRIERS.
- WALL-MOUNTED SINGLE WATER CLOSET: 1'-0" OUTSIDE FACE OF GYPSUM WALLBOARD TO OUTSIDE FACE OF GYPSUM WALLBOARD.
- WALL-MOUNTED BACK-TO-BACK WATER CLOSETS: 2'-0" OUTSIDE FACE OF GYPSUM WALLBOARD TO OUTSIDE FACE OF GYPSUM WALLBOARD.
- FLOOR-MOUNTED SINGLE WATER CLOSET: 9" OUTSIDE FACE OF GYPSUM WALLBOARD TO OUTSIDE FACE OF GYPSUM WALLBOARD.
- FLOOR-MOUNTED BACK-TO-BACK WATER CLOSETS: 1'-0" OUTSIDE FACE OF GYPSUM WALLBOARD TO OUTSIDE FACE OF GYPSUM WALLBOARD.
- FIRE EXTINGUISHER CABINET: 6" STUDS.
- FIRE DEPARTMENT VALVE CABINET: 12" OUTSIDE FACE OF GYPSUM WALLBOARD TO OUTSIDE FACE OF GYPSUM WALLBOARD.
- WALL-MOUNTED CLINICAL SINK: 1'-0" OUTSIDE FACE OF GYPSUM WALLBOARD TO OUTSIDE FACE OF GYPSUM WALLBOARD.
- WALL-MOUNTED BACK-TO-BACK CLINICAL SINKS: 2'-0" OUTSIDE FACE OF GYPSUM WALLBOARD TO OUTSIDE FACE OF GYPSUM WALLBOARD.
- WALL-MOUNTED JANITOR SINK: 6" STUDS.
- WALL-MOUNTED BACK-TO-BACK CLINICAL SINKS: 2'-0" OUTSIDE FACE OF GYPSUM WALLBOARD TO OUTSIDE FACE OF GYPSUM WALLBOARD.
- THE CONTRACTOR SHALL VERIFY THAT THE FLOOR-MOUNTED CARRIERS USED TO SUPPORT WALL-MOUNTED SINKS/LAVATOIRES AND UNSUPPORTED COUNTERTOP SINKS/LAVATOIRES (OTHER THAN THOSE IDENTIFIED IN NOTE #5 ABOVE) ARE A TYPE THAT WILL FIT WITHIN 3/8" METAL STUD WALLS. NOTIFY ARCHITECT IMMEDIATELY IF THERE IS A CONFLICT.
- ACCESSIBLE WATER CLOSETS SHALL BE MOUNTED 1'-0" BETWEEN THE FINISH FACE OF ADJACENT WALL OR TOILET PARTITION AND THE CENTERLINE OF THE WATER CLOSET. THE FLUSH VALVE HANDLE FOR EACH ACCESSIBLE WATER CLOSET SHALL BE MOUNTED ON THE OPENMOST SIDE OF THE WATER CLOSET AT 3'-8" MAX TO THE TOP OF FLUSH HANDLE. BARIATRIC TOILET SHOULD BE LOCATED 24" AWAY FROM FINISHED WALL.
- ACCESSIBLE WALL-MOUNTED SINKS/LAVATOIRES SHALL BE MOUNTED WITH MINIMUM 1'-2" BETWEEN THE FINISH FACE OF ADJACENT WALL, TOILET PARTITION, FIXED EQUIPMENT, AND/OR CASEWORK.
- NON-ACCESSIBLE WATER CLOSETS AND URINALS SHALL BE MOUNTED SO THAT THERE IS 1'-0" MINIMUM BETWEEN THEIR CENTERLINE AND THE FINISH FACE OF ADJACENT WALL OR TOILET/PARTITION. SEE INTERIOR EXITS ELEVATIONS.
- IN NON-ACCESSIBLE INPATIENT ROOMS AND NON-ACCESSIBLE INPATIENT TOILET ROOMS, THE NON-ACCESSIBLE WALL-MOUNTED SINKS/LAVATOIRES SHALL BE MOUNTED SO THAT THERE IS A 4" MINIMUM CLEARANCE BETWEEN THE OUTSIDE FACE OF SINK/LAVATORY AND THE FINISH FACE OF ADJACENT WALL, PARTITION, FIXED EQUIPMENT, AND/OR CASEWORK. SEE INTERIOR ELEVATIONS.
- CASEWORK DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION AND INSTALLATION. SEE CASEWORK SECTIONS FOR FURTHER REQUIREMENTS REGARDING CASEWORK DIMENSIONING.
- CLINICAL SINKS SHALL BE MOUNTED SO THAT THE CENTERLINE OF THE SINKS IS 1'-0" MINIMUM TO THE FINISH FACE OF ADJACENT WALL, PARTITION, FIXED EQUIPMENT, AND/OR CASEWORK. THE FLUSH VALVE HANDLE FOR THE CLINICAL SINK SHALL BE MOUNTED ON THE OPENMOST SIDE OF THE SINK AT 3'-8" MAX TO THE TOP OF HANDLE.



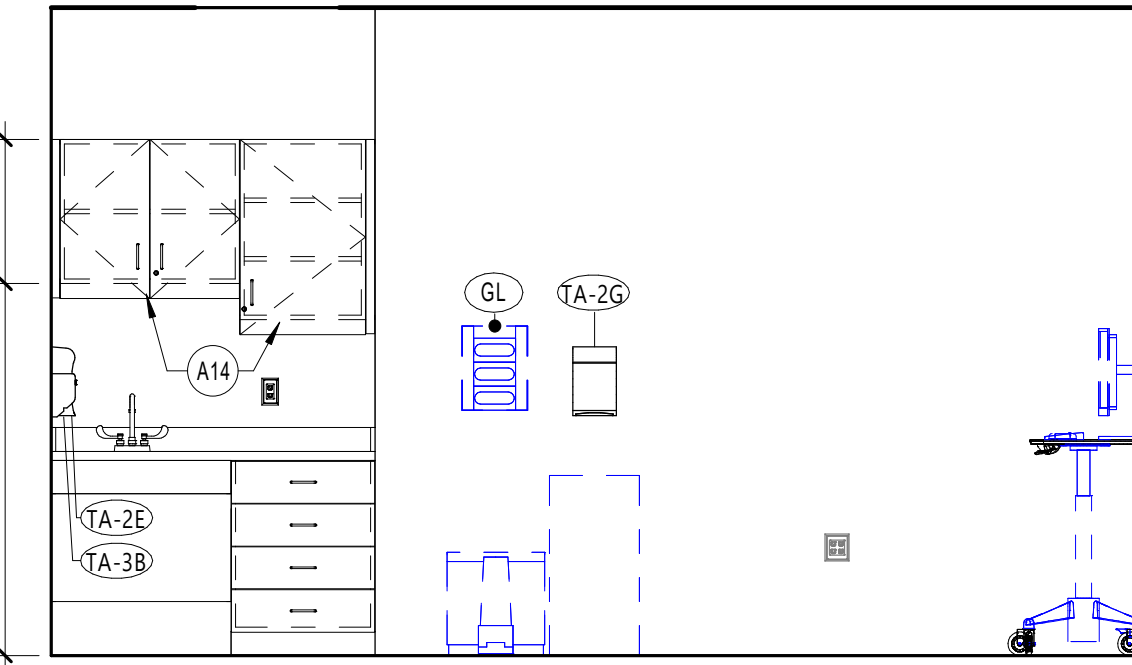
C3 MRI EQUIPMENT ROOM - INTERIOR ELEVATION 1  
3/8" = 1'-0"



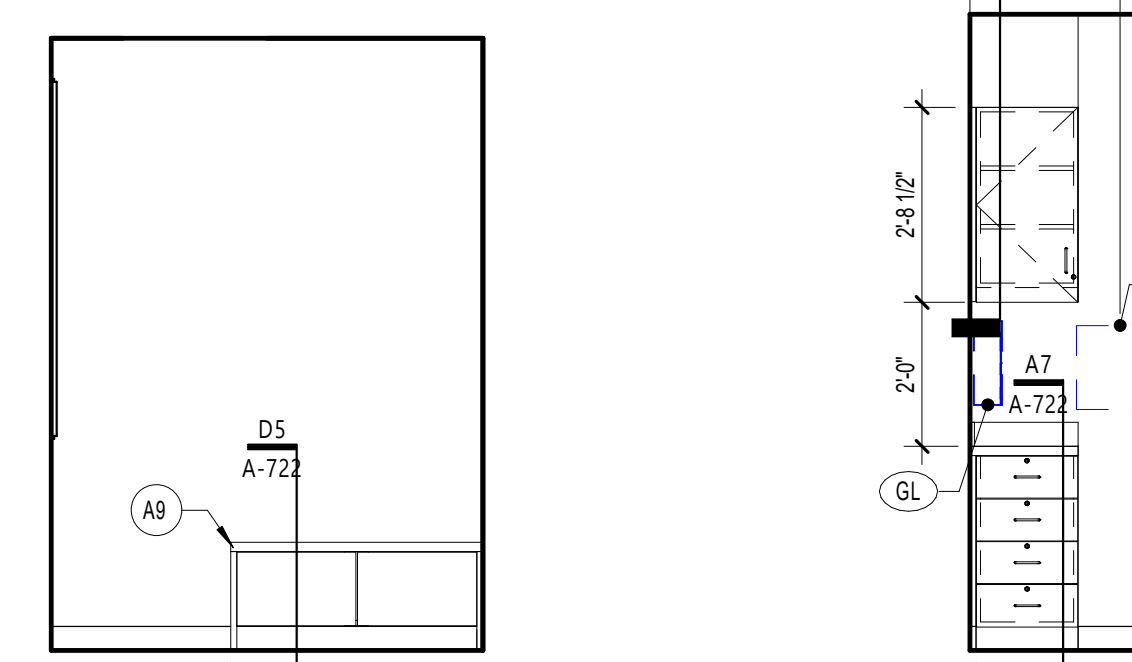
B3 MRI 2 ZONE 4 - INTERIOR ELEVATION 1  
3/8" = 1'-0"



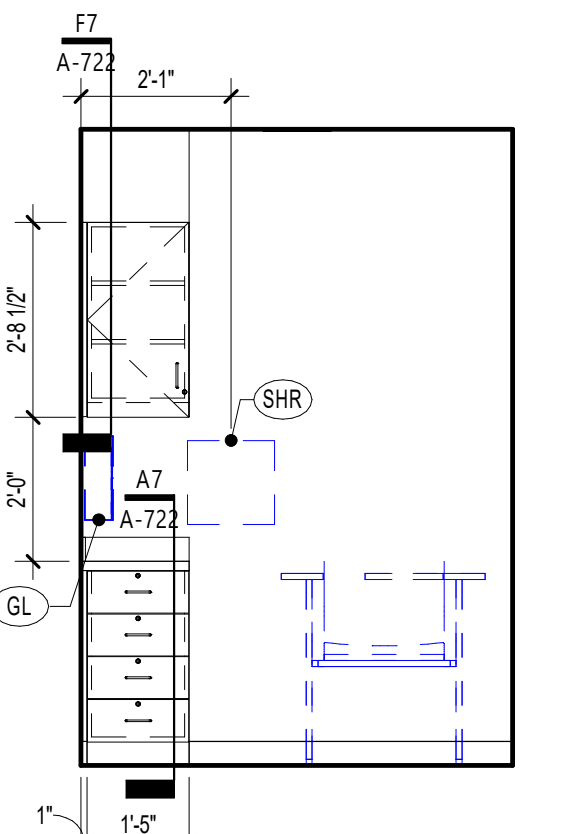
A3 MRI 2 ZONE 4 - INTERIOR ELEVATION 3  
3/8" = 1'-0"



B5 EXAM W202 - INTERIOR ELEVATION 1  
3/8" = 1'-0"



A5 CHANGING W189E - INTERIOR ELEVATION 1  
3/8" = 1'-0"



A6 CT SUBWAIT W230 - INTERIOR ELEVATION 2  
3/8" = 1'-0"

## ARCHITECTURAL FLOOR PLAN GENERAL NOTES

- THE "LIMITS OF CONSTRUCTION" LINES SHOWN ON THE ARCHITECT'S FLOOR PLANS APPLY ONLY TO THE LIMITS OF ARCHITECTURAL NEW CONSTRUCTION AND RENOVATION. SEE OTHER DISCIPLINES' DRAWINGS FOR THE LIMITS OF THE NEW CONSTRUCTION AND RENOVATION FOR THEIR DISCIPLINE.
- THE CONTRACTOR SHALL NOT SCALE DRAWINGS. DIMENSIONS HAVE BEEN PROVIDED THROUGHOUT THE CONTRACT DOCUMENTS FOR THE CONTRACTOR'S USE IN COORDINATING THE WORK. IF ANY DIMENSIONS ARE FOUND IN CONFLICT THE CONTRACTOR SHALL NOTIFY AND OBTAIN CLARIFICATION FROM THE ARCHITECT.
- WHERE NEW GYPSUM BOARD WALLS/PARTITIONS/BARRIERS ARE A CONTINUATION OF AN EXISTING WALL OR COLUMN ENCASUREMENT, THE FACE OF NEW GYPSUM BOARD SHALL BE ALIGNED WITH THE FACE OF EXISTING SURFACE UNLESS OTHERWISE INDICATED ON DRAWINGS. THE CONTRACTOR SHALL ACCOUNT FOR ANY ADDITIONAL LAYERS OF DRYWALL NECESSARY TO PROVIDE THE CONTINUATION, ALIGNMENT, OR PRESERVATION OF THE FIRE RATING IDENTIFIED.
- THE CONTRACTOR SHALL PROVIDE LEVEL TRANSITION BETWEEN EXISTING AND NEW CONCRETE SLABS AND BETWEEN NEW AND EXISTING FINISHES. THE CONTRACTOR SHALL IDENTIFY WHERE THE FLOOR DIPS OR RISES, CLEAN THE FLOOR AND APPLY SELF-LEVELING COMPOUND TO THE FLOOR, AS REQUIRED TO ACHIEVE AN EVEN SUBSTRATE AND AN EVEN TRANSITION BETWEEN EXISTING AND NEW CONSTRUCTION.
- THE CONTRACTOR SHALL BUILD OUT PARTITIONS TO ACCOMMODATE DEPTH REQUIRED BY FIRE EXTINGUISHER CABINETS AND RECESSED POWER PANELS LOCATED THROUGHOUT THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL OBTAIN THE ARCHITECT'S APPROVAL FOR THEIR FINAL LOCATION.
- THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE THICKNESS OF THE SCHEDULED FINISH MATERIALS SUCH AS CERAMIC TILE, SOLID SURFACE, ETC. PRIOR TO LAYOUT OF METAL STUD PARTITIONS OR CMU WALLS. SINCE THE TOTAL WALL THICKNESS MUST BE CONSIDERED SO THAT THE REQUIRED "MINIMUM FACE TO FINISH" AND "MINIMUM CLEAR FACE OF FINISH" DIMENSIONS CAN BE MAINTAINED AFTER THE INSTALLATION OF FINISH MATERIALS.
- THE FLOOR SLAB SHALL BE SLOPED (2%) TO DRAIN. DO NOT INTERRUPT INTEGRITY OF FIRE RATING OF AFFECTED FLOOR SLAB.
- THE CONTRACTOR SHALL REFER TO THE OWNER'S PROVIDED PHYSICIST REPORT FOR THE REQUIRED THICKNESS OF LEAD ON LEAD LINED PARTITIONS IDENTIFIED IN THE CONTRACT DOCUMENTS.
- ACCESS PANELS:
  - THE CONTRACTOR SHALL PROVIDE SELF-CLOSING AND KEY-LOCKED ACCESS PANELS OF APPROPRIATE TYPE AND SIZE AS SPECIFIED IN VERTICAL AND HORIZONTAL HARD SURFACES WHERE ACCESS FOR SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING, FIRE PROTECTION, SECURITY, ELECTRICAL OR COMMUNICATION ITEMS MAY BE REQUIRED.
  - THE CONTRACTOR SHALL PROVIDE AND INSTALL ACCESS PANELS OF THE APPROPRIATE FIRE-RATED TYPE EQUAL TO THE RATING OF THE VERTICAL AND HORIZONTAL HARD SURFACES WHERE REQUIRED TO BE INSTALLED.
  - ACCESS PANELS SHALL BE CASKEDED TO BE AIRTIGHT IN ROOMS IDENTIFIED ON THE MECHANICAL DRAWINGS AS POSITIVE OR NEGATIVE PRESSURE.
  - THE CONTRACTOR SHALL SUBMIT AN ACCESS PANEL SCHEDULE AND LOCATION PLAN IDENTIFYING ALL ACCESS POINTS TO THE ARCHITECT FOR REVIEW AS REQUIRED BY THE SPECIFICATIONS.
- ALL RATED SMOKE BARRIERS, RATED HORIZONTAL EXITS, AND RATED EXIT PASSAGEWAY BARRIER WALLS SHALL BE CONSTRUCTED PRIOR TO THE CONSTRUCTION OF INTERVENING WALLS.
- ALL FLOORS, PARTITIONS AND CEILINGS IN ROOMS IDENTIFIED ON THE MECHANICAL DRAWINGS AS POSITIVE OR NEGATIVE PRESSURE SHALL BE SEALED AIRTIGHT.
- FIRE EXTINGUISHER CABINET: 6" STUDS.

## GENERAL CONSTRUCTION NOTES

- ALL CONSTRUCTION AND MATERIALS FOR MRI ROOM 2 ZONE 4 - W189C AND MRI CONTROL ROOM ZONE 3 - W24F ARE TO BE NON-FERROMAGNETIC. NON-FERROMAGNETIC MATERIALS INCLUDING BUT NOT LIMITED TO REMOVABLE COVERS, SWITCH BOX COVER PLATES, LIGHT FIXTURE COMPONENTS, MOUNTING SCREWS, ETC. TO MINIMIZE POTENTIAL HAZARD IN THE MAGNET ROOM.
- ### MRI ZONE SAFETY NOTES
- SUITES FOR MRI EQUIPMENT SHALL BE PLANNED TO CONFORM TO THE FOUR-ZONE SCREENING AND ACCESS CONTROL PROTOCOLS IDENTIFIED IN THE CURRENT EDITION OF THE AMERICAN COLLEGE OF RADIOLOGY'S "GUIDANCE DOCUMENT FOR SAFE MRI PRACTICES".
- AMERICAN COLLEGE OF RADIOLOGY (ACR) ZONING DESCRIPTIONS:**
- ZONE 1:** ALL AREAS FREELY ACCESSIBLE TO THE GENERAL PUBLIC WITHOUT SUPERVISION. MAGNETIC FRINGE FIELDS IN THIS AREA ARE LESS THAN 5 GAUSS (0.5mT).
- ZONE 2:** STILL A PUBLIC AREA, BUT THE INTERFACE BETWEEN UNREGULATED ZONE 1 AND THE STRICTLY CONTROLLED ZONES 3 AND 4. MRI SAFETY SCREENING TYPICALLY OCCURS HERE UNDER TECHNOLOGIST SUPERVISION.
- ZONE 3:** AN AREA NEAR THE MAGNET ROOM WHERE THE FRINGE, GRADIENT, OR RF MAGNETIC FIELDS ARE SUFFICIENTLY STRONG TO PRESENT A PHYSICAL HAZARD TO UNSCREENED PATIENTS AND PERSONNEL.
- ZONE 4:** SYNOYMUS WITH THE MR MAGNET ROOM ITSELF. HAS THE HIGHEST FIELD (AND GREATEST RISK) AND FROM WHICH ALL FERROMAGNETIC OBJECTS MUST BE INCLUDED.

## GENERAL NOTES

- SEE SHEET T-000 FOR COVER SHEET & DRAWING LIST.
- SEE SHEET G-001 FOR CODE REQUIREMENTS, SYMBOLS LEGEND, FLOOD MAP DATA AND GENERAL NOTES.
- SEE SHEET LSC-101 FOR LIFE SAFETY & NOTES.
- SEE SHEET DM-100 FOR DEMOLITION PLAN.
- SEE SHEET A-101 FOR ICR PLAN AND NOTES.
- SEE SHEET A-011 FOR MRI RIGGING PATH AND SAFETY ZONE PLAN.
- SEE SHEET A-100 FOR ARCHITECTURAL PLANS.
- SEE SHEET A-300 FOR ROOF PLAN.
- SEE SHEET A-400 FOR EQUIPMENT PLAN.
- SEE SHEET A-500 FOR REFLECTED CEILING PLAN & CEILING DETAILS.
- SEE SHEET A-721 FOR PARTITION TYPES & RATED ASSEMBLY.
- SEE SHEET A-722 FOR INTERIOR DETAILS.
- SEE SHEET A-800 FOR FINISH PLAN AND SCHEDULE.
- SEE SHEET A-900 FOR DOOR TYPES, FRAME DETAILS, SCHEDULE & BORROWED LIGHT DETAILS, SCHEDULE.

## ARCHITECTURAL KEYNOTES

NO.	DESCRIPTION
A1	EXTENT OF EXISTING DEEPER STRUCTURAL SLAB. EXACT LOCATION TO BE CONFIRMED IN FIELD. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
A2	PROVIDE MRI SAFE ADJUSTABLE BLINDS.
A3	EXISTING FIRE EXTINGUISHER CABINET TO REMAIN. CONFIRM MAKE AND MODEL IS MRI SAFE.
A4	PROVIDE KEY LOCK ON EXISTING DOOR.
A5	DOOR BY MRI SHIELDING VENDOR.
A6	3FORM ULTIO FLOOR TO CEILING 200.58 PARTITION. REFER TO FINISH PLAN FOR RESIN FINISH. FASTEN TO FLOOR AND CEILING. PROVIDE BLOCKING ABOVE CEILING AT VERTICAL SUPPORTS.
A7	NEW SHAFIT FOR QUENCH VENT. MORE INFORMATION PROVIDED ON MEP DRAWINGS AND OPENING INFORMATION ON STRUCTURAL DRAWINGS. COORDINATE WORK SCHEDULE WITH CURRENT OCCUPANTS OF SPACE.
A8	ADD ALTERNATE: DEMOLISH EXISTING PLASTIC LAMINATE COUNTERTOP. REPLACE WITH NEW SOLID SURFACE COUNTERTOP, SSP-1, SUPPORTED BY RECESSED COUNTERTOP BRACKETS.
A9	PROVIDE MINIMUM 1" RADIUS ON SOLID SURFACE EDGE.
A10	PROVIDE 24" X 60" STAINLESS STEEL FRAMED WALL MOUNTED MIRROR. PROVIDE IN WALL BLOCKING.
A11	APPROXIMATE CONCRETE INFILL OF TRENCH FOR SANITARY LINE FOR FLOOR DRAIN.
A12	CONFIRM EXACT LOCATION OF EXISTING OUTLET. MAY NEED TO BE RELOCATED TO ACCOMMODATE MILLWORK. REVIEW WITH ENGINEER AND OWNER.
A13	RELOCATED REC.
A14	LOCKABLE UPPER CABINET.
A15	PATCH WALL AND FLOOR AS TO LEAVE NO EVIDENCE OF REMOVAL. MATCH EXISTING FINISHES. ADD CEILING TILES AND GRID IN AREA OF WALL REMOVAL TO MATCH EXISTING.
A16	GC TO PROVIDE AND INSTALL MRI IN USE LIGHT. PROVIDE DOOR CONTACT TO COORDINATE MRI USE.
A17	SLAB PENETRATIONS TO BE 2HR RATED.
A18	REMOVABLE ACCESS RF WALL FOR MRI RIGGING.
A19	GROMMET OPENINGS FOR INJECTOR CABLING. COORDINATE WITH VENDOR DOCUMENTS.
A20	EPO BUTTON. COORDINATE WITH VENDOR.
A21	PROVIDE 2" DIA. WAVEGUIDE PIPE FOR INJECTOR CONTROL. PROVIDE COVER FOR WHEN THE WAVEGUIDE PIPE IS NOT IN USE.
A22	RECESSED COUNTER SUPPORT BRACKETS. BASIS OF DESIGN. RAKKS E-1824 INSIDE WALL MOUNT.
A23	ALL OUTLETS PROVIDED IN NEW MRI ROOM - W189C TO BE MRI SAFE/ RF OUTLETS.
A24	PROVIDE MONITOR BRACKETS.
A25	GC TO INSTALL HOLLOW METAL DOOR AND FRAME TO KEEP MRI 1 OPERATIONAL DURING THE COURSE OF CONSTRUCTION. DOOR TO BE A SMOKE DOOR WITH GASKETING. TOWARD THE END OF CONSTRUCTION, GC TO REMOVE DOOR AND FRAM, RESTORE WALL TO ORIGINAL CONDITION AND RATING.
A26	GC TO REINSTALL SYSTEMS FURNITURE AFTER RIGGING. REFER TO RIGGING PLAN.

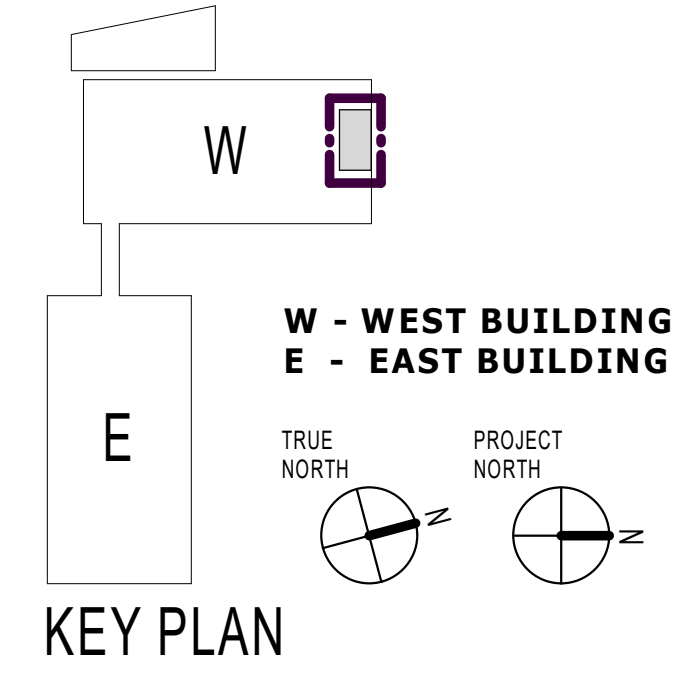
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TARRYTOWN

PROJECT:

NEW MRI

155 WHITE PLAINS ROAD  
TARRYTOWN, NY 10591



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REVISIONS/ISSUES		

## SHEET TITLE: INTERIOR ELEVATIONS

SEAL:	DATE: 06/18/2021 CON/REF NO. CONTRACT NO. SCALE: AS NOTED PROJECT NO. 6109 CHECKED: CH DRAWN: KU
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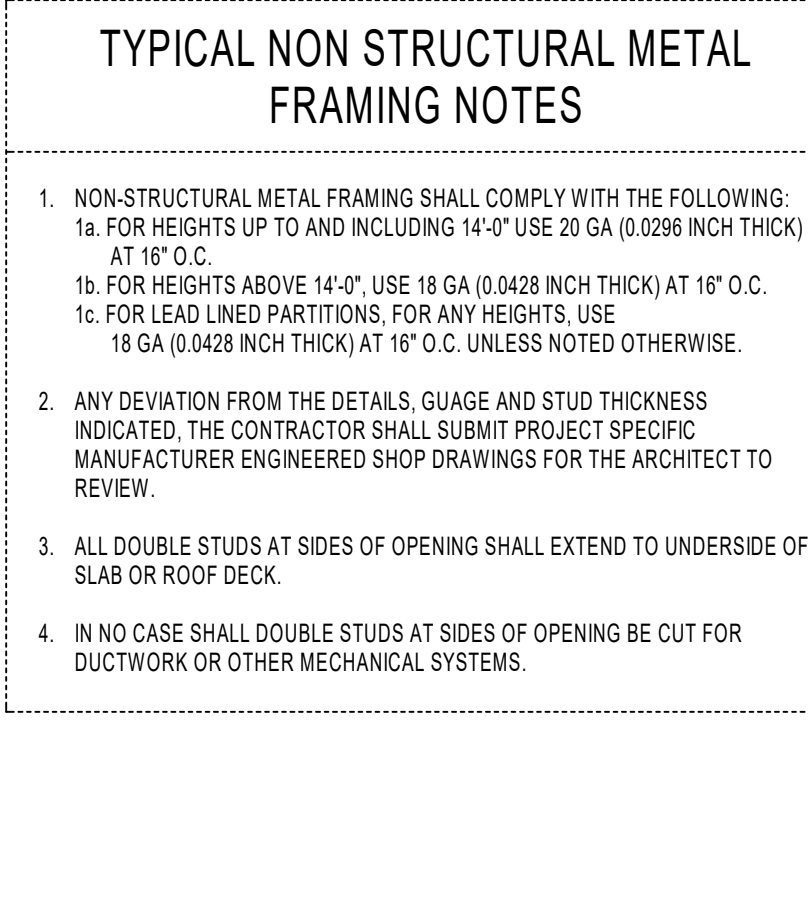
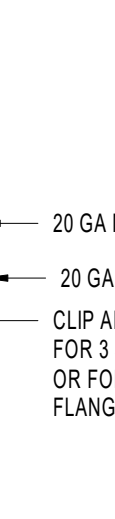
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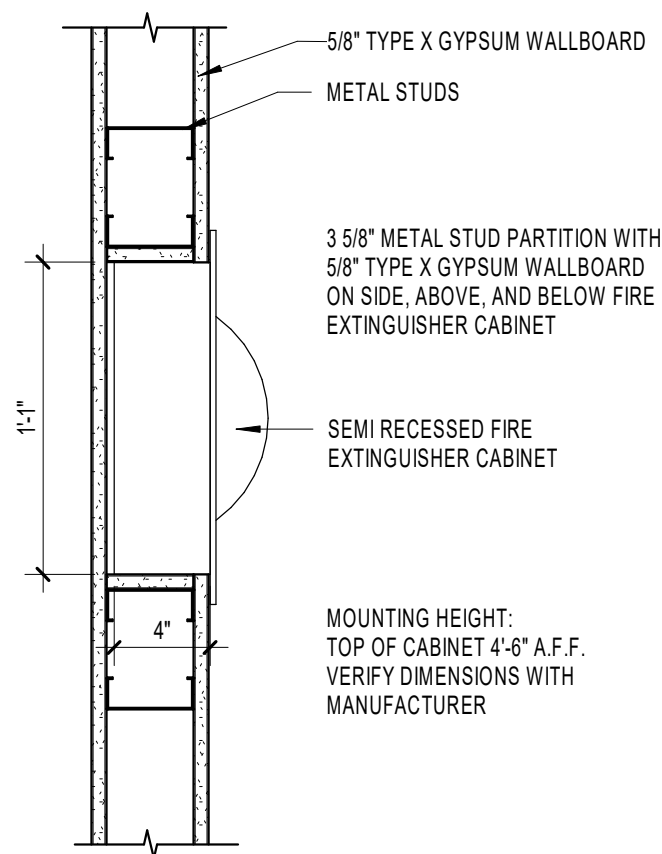
(A1) TYPICAL NO  
1/4" = 1'-0"



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(C8) FIRE EXTINGUISHER CABINET  
1 1/2" = 1'-0"









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FINISH SCHEDULE - SHEET

SPEC SECTION	TAG	MANUFACTURER	STYLE	COLOR	DIMENSIONS	FINISH NOTES	LOCATION	MANUFACTURER'S REP
CEILINGS								
CEILING								
095113	C-2	ARMSTRONG	#1935 ULTIMA HEALTHZONE SQUARE LAY-IN	WHITE	24"x24"	GRID: PRELUDE XL ALUMINUM 15/16" EXPOSED TEE SYSTEM. ARMSTRONG SHALL PROVIDE AXTCB ALUMINUM CLIPS.	MR1 ROOM	
095113	C-3	ARMSTRONG	#1772 DUNE SQUARE LAY-IN	WHITE	24"x24"	GRID: PRELUDE 15/16", WHITE		
WALLS								
DECORATIVE RESIN								
062210 & 066500	DR-1	3FORM	VARIA ECORESIN	VAPOR	REFER TO ELEVATIONS, 3/8" THICKNESS	3FORM READY-TO-GO PARTITION SYSTEM. REFER TO ARCHITECTURAL.	SUBWAIT	
P-1								
099123	P-1	SHERWIN WILLIAMS	EGGSHELL FINISH	PURE WHITE SW7005			GENERAL PAINT	
099123	P-2	SERWIN WILLIAMS	SEMI-GLOSS FINISH	DORIAN GRAY SW7017			TRIM AND HOLLOW METAL DOOR PAINT	
099123	P-3	SHERWIN WILLIAMS	EGGSHELL FINISH	SLEEPY BLUE SW 6225			ACCENT PAINT	
099123	P-4	SHERWIN WILLIAMS	EGGSHELL FINISH	REFUGUE SW6228			ACCENT PAINT	
FLOORS								
RUBBER TILE								
096519	RT-1	NORA	NORAMENT SATURA	5110 ARA	36.53" x 39.53", 3.5MM			
096519	RT-2	NORA	NORAMENT SATURA	5109 ORION	36.53" x 39.53", 3.5MM			
VINYL COMPOSITION TILE								
096519	VCT-1	ARMSTRONG FLOORS	IMPERIAL TEXTURE - STANDARD EXCELRON	51810 WASHED LINEN	12" X 12"	INSTALLATION: MONOLITHIC		
FLOOR TRANSITION & BASE								
RUBBER BASE								
096513	RB-1	JOHNSONITE	BASEWORKS	32 PEBBLE	4" HIGH			
MILLWORK								
PLASTIC LAMINATE								
062210, 061446 & 123623.13	PL-1	WILSONART	MATTE	HARVEST MAPLE 7853-38		GRAIN TO RUN VERTICALLY	VERTICAL SURFACES	
SOLID SURFACE POLYMER								
066510, 102113.43 & 123661.16	SSP-1	DUPONT	CORIAN	WHITE JASMINE	1/2" THICKNESS		COUNTERTOPS	
WOOD VENEER								
091416	WW-1	BROOKSIDE VENEERS	QTR WALNUT	2-580X		POLYURETHANE FINISH. MATCH EXISTING DOORS.	WOOD DOORS	
FURNISHINGS								
PRIVACY CURTAIN								
102123	PC-1	MOMENTUM	EDICT	MUSLIN	66" WIDE ROLLS	QC TO CONFIRM ATTIC STOCK OF EXISTING CURTAIN WITH OWNER. IF THERE IS ADEQUATE ATTIC STOCK, NO NEW CURTAIN TO BE SUPPLIED.		

RESILIENT FLOORING

JOHNSONITE SLIM LINE TRANSITION

RESILIENT FLOORING

CONCRETE SLAB

01

FLOOR TRANSITION - RESILIENT TO RESILIENT FLOOR

3" = 1'-0"

FINISH AND FLOOR PATTERN KEYNOTES

F1 PROVIDE LEVEL TRANSITION BETWEEN NEW AND EXISTING FLOORING.

F2 PROTECT EXISTING FINISHES TO REMAIN DURING CONSTRUCTION. PATCH AND REPAIR AS NECESSARY.

F3 FLASH PATCH FEATHERED UP TO MEET EDGE OF RF. SHIELDING.

F4 PATCH AND REPAIR WALL AFTER INSTALLING NEW MILLWORK. PAINT TO MATCH EXISTING PAINT OR INDICATED PAINT. ACCENT PAINT COLOR. COORDINATE WITH FACILITY AND EQUIPMENT TO PERFORM WORK. EXISTING MRI WILL HAVE CT BE RAMPED DOWN TO INSTALL.

F5 INSTALL SALVAGED CORNER GUARD.

F6 PATCH AND MATCH EXISTING FLOORING WHERE REQUIRED.

FINISH & FLOOR PATTERN LEGEND

P-1 (A) WALL

LVT-1 (A) FLOOR

RB-1 BASE

WP-1 WALL PROTECTION

ACCENT FINISH DESIGNATION (A):

P-#

CT

XXX-#

NUMBER OF FULL TILE(S)

NOTE: ENTIRE AREA INSIDE THE BOLD LINES TO RECEIVE ACCENT COLOR. UNTAGGED AREA TO RECEIVE BASE COLOR.

STARTING POINT

GRAIN DIRECTION

CT

CUT TILE

FINISH DESIGNATION

FINISH GENERAL NOTES

1. WHEN AN "A" IS IN THE FINISH TAG IT REFERS TO AN ACCENT FINISH. SEE THE FINISH/ FLOOR PATTERN PLANS OR ELEVATIONS FOR TYPE AND LOCATION.

2. ALL GWB SOFFITS ARE TO BE PAINTED. FASCIA AND UNDERSIDE ARE TO MATCH UNLESS NOTED OTHERWISE. PROVIDE FRY REGLET REVEALS AS A MATERIAL OR COLOR TRANSITION.

3. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ITEMS REQUIRING FINISH SELECTIONS THAT ARE NOT CLARIFIED IN THE CONTRACT DOCUMENTS.

4. CEILING ACCESS PANELS, HVAC DIFFUSERS AND GRILLES IN GYPSUM WALLBOARD, CEILING AND SOFFITS ARE TO BE PAINTED TO MATCH ADJACENT CEILING SURFACE UNLESS NOTED OTHERWISE.

5. ALL FLOORING TO CONTINUE UNDER ALL CASEWORK.

6. FLASH PATCH FLOORING AS REQUIRED TO PROVIDE FLUSH TRANSITION AT ALL DIFFERENT FLOORING MATERIALS.

7. ALL CUT TILES TO OCCUR AT THE PERIMETER OF THE ROOM, U.N.O. WITH A "CUT TILE" SYMBOL AS SHOWN BELOW.

8. CONTRACTOR IS RESPONSIBLE FOR PATCHING, REPAIRING, AND TOUCHING UP ALL FINISHES SCUFFED OR DAMAGED ALONG MRI ZONE ROUTE.

GENERAL CONSTRUCTION NOTES

ALL CONSTRUCTION AND MATERIALS FOR MR1 ROOM 2/ ZONE 4 - W180C AND MRI CONTROL ROOM/ ZONE 3 - W24AF ARE TO BE NON-FERROMAGNETIC, NON-FERROMAGNETIC MATERIALS INCLUDING BUT NOT LIMITED TO REMOVABLE COVERS, SWITCH BOX COVER PLATES, LIGHT FIXTURE COMPONENTS, MOUNTING SCREWS, ETC. TO MINIMIZE POTENTIAL HAZARD IN THE MAGNET ROOM.

MRI ZONE SAFETY NOTES

SUITES FOR MRI EQUIPMENT SHALL BE PLANNED TO CONFORM TO THE FOUR-ZONE SCREENING AND ACCESS CONTROL PROTOCOLS IDENTIFIED IN THE CURRENT EDITION OF THE AMERICAN COLLEGE OF RADIOLOGY'S "GUIDANCE DOCUMENT FOR SAFE MRI PRACTICES."

AMERICAN COLLEGE OF RADIOLOGY (ACR) ZONING DESCRIPTIONS:

ZONE 1: ALL AREAS FREELY ACCESSIBLE TO THE GENERAL PUBLIC WITHOUT SUPERVISION. MAGNETIC FRINGE FIELDS IN THIS AREA ARE LESS THAN 5 GAUSS (0.5mT)

ZONE 2: STILL A PUBLIC AREA, BUT THE INTERFACE BETWEEN UNREGULATED ZONE 1 AND THE STRICTLY CONTROLLED ZONES 3 AND 4. MR SAFETY SCREENING TYPICALLY OCCURS HERE UNDER TECHNOLOGIST SUPERVISION.

ZONE 3: AN AREA NEAR THE MAGNET ROOM WHERE THE FRINGE, GRADIENT, OR RF MAGNETIC FIELDS ARE SUFFICIENTLY STRONG TO PRESENT A PHYSICAL HAZARD TO UNSCREENED PATIENTS AND PERSONNEL.

ZONE 4: SYNONYMOUS WITH THE MR MAGNET ROOM ITSELF. HAS THE HIGHEST FIELD (AND GREATEST RISK) AND FROM WHICH ALL FERROMAGNETIC OBJECTS MUST BE INCLUDED.

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FINISH PLAN AND SCHEDULE

MR1 EQUIPMENT ROOM W24AF 137 SF

MR1 CONTROL ROOM / ZONE 3 W24AF 211 SF

MR1 SUBWAIT / ZONE 2 W24AF 248 SF

MR1 EQUIPMENT ROOM W24AF 169 SF

MR1 / ZONE 4 W24AF

MR1 EQUIPMENT ROOM W24AF 137 SF

MR1 CONTROL ROOM / ZONE 3 W24AF 211 SF

MR1 SUBWAIT / ZONE 2 W24AF 248 SF

MR1 EQUIPMENT ROOM W24AF 169 SF

MR1 / ZONE 4 W24AF

OWNER:

COLUMBIA DOCTOR'S TARRYTOWN

PROJECT:

NEW MRI

155 WHITE PLAINS ROAD

TARRYTOWN, NY 10591

KEY PLAN

W - WEST BUILDING

E - EAST BUILDING

TRUE NORTH

PROJECT NORTH

NO.

DESCRIPTION

DATE

REVISIONS/ISSUES

SHEET TITLE:

FINISH PLAN AND SCHEDULE

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## STRUCTURAL ENGINEER

MEP ENGINEER

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**PROJECT:**

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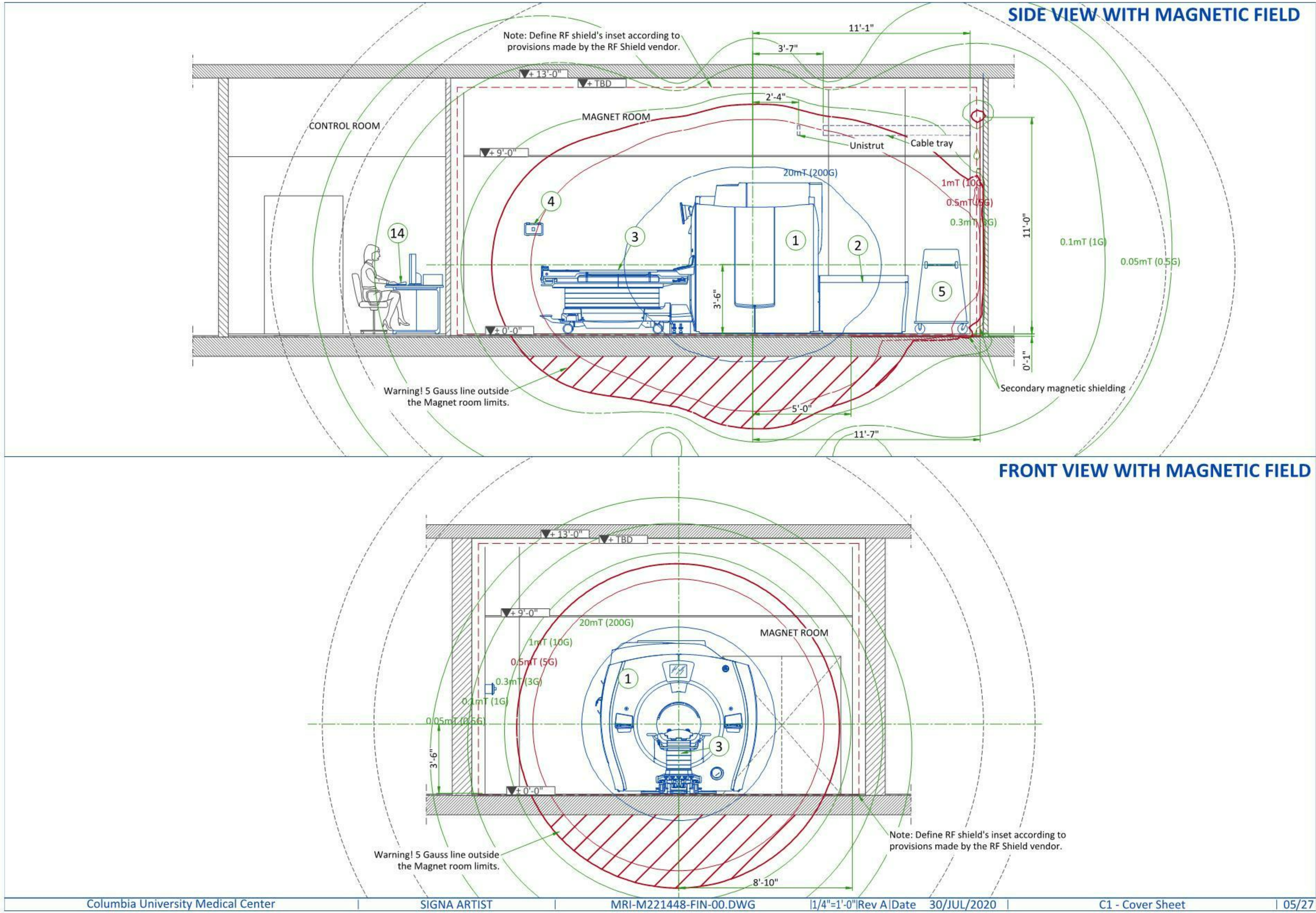
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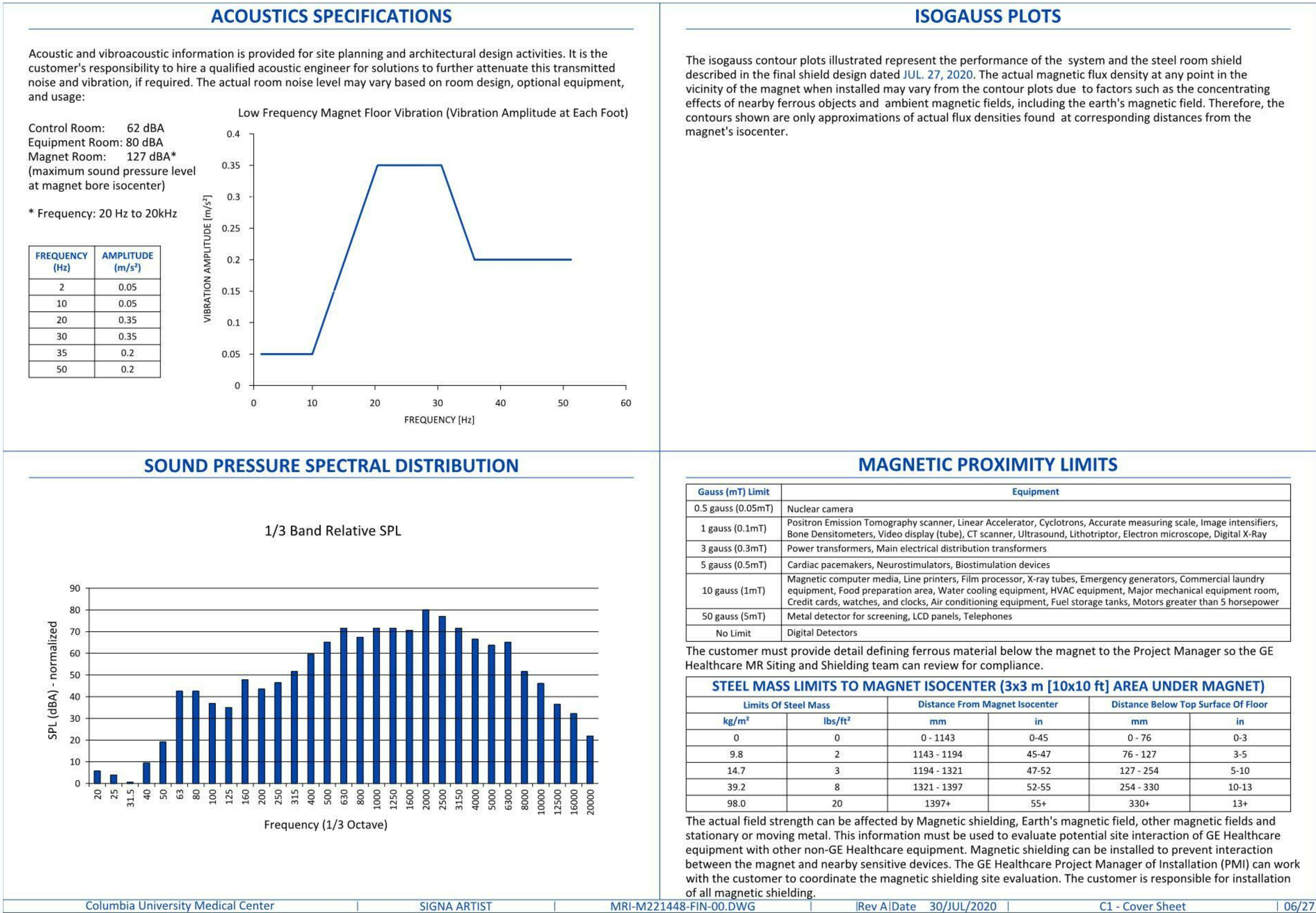
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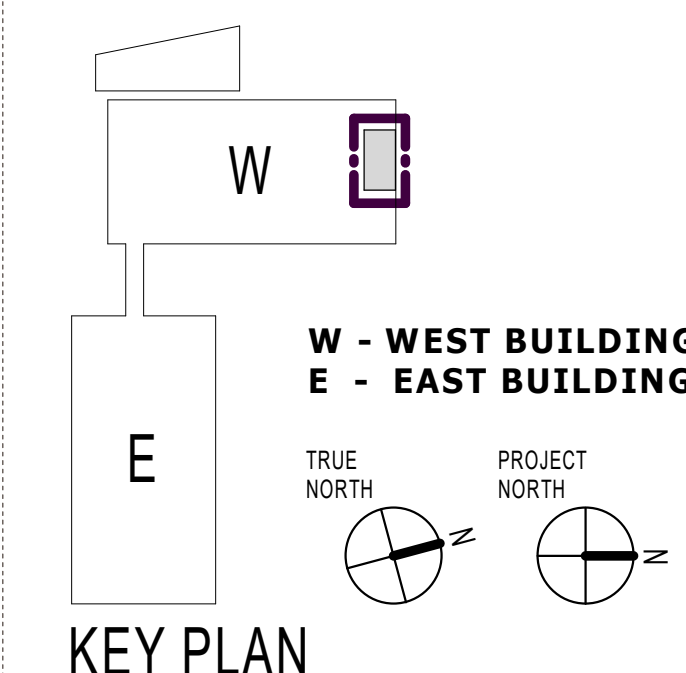
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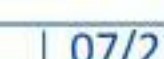
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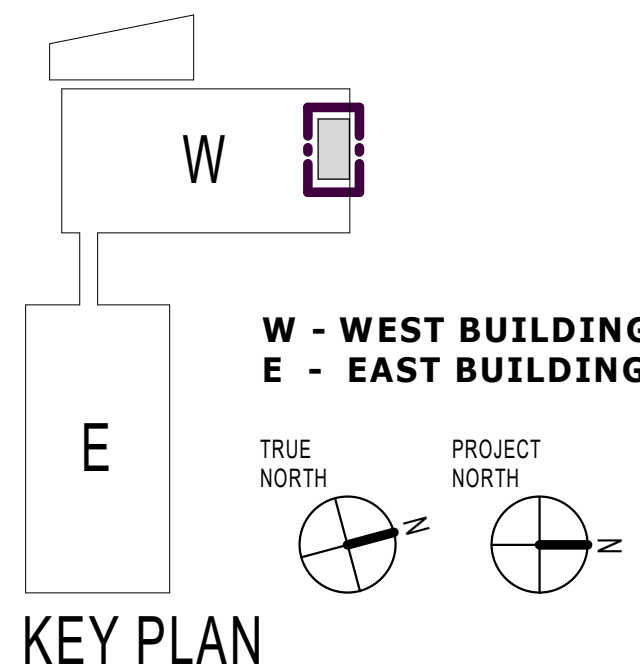
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## NEW MRI

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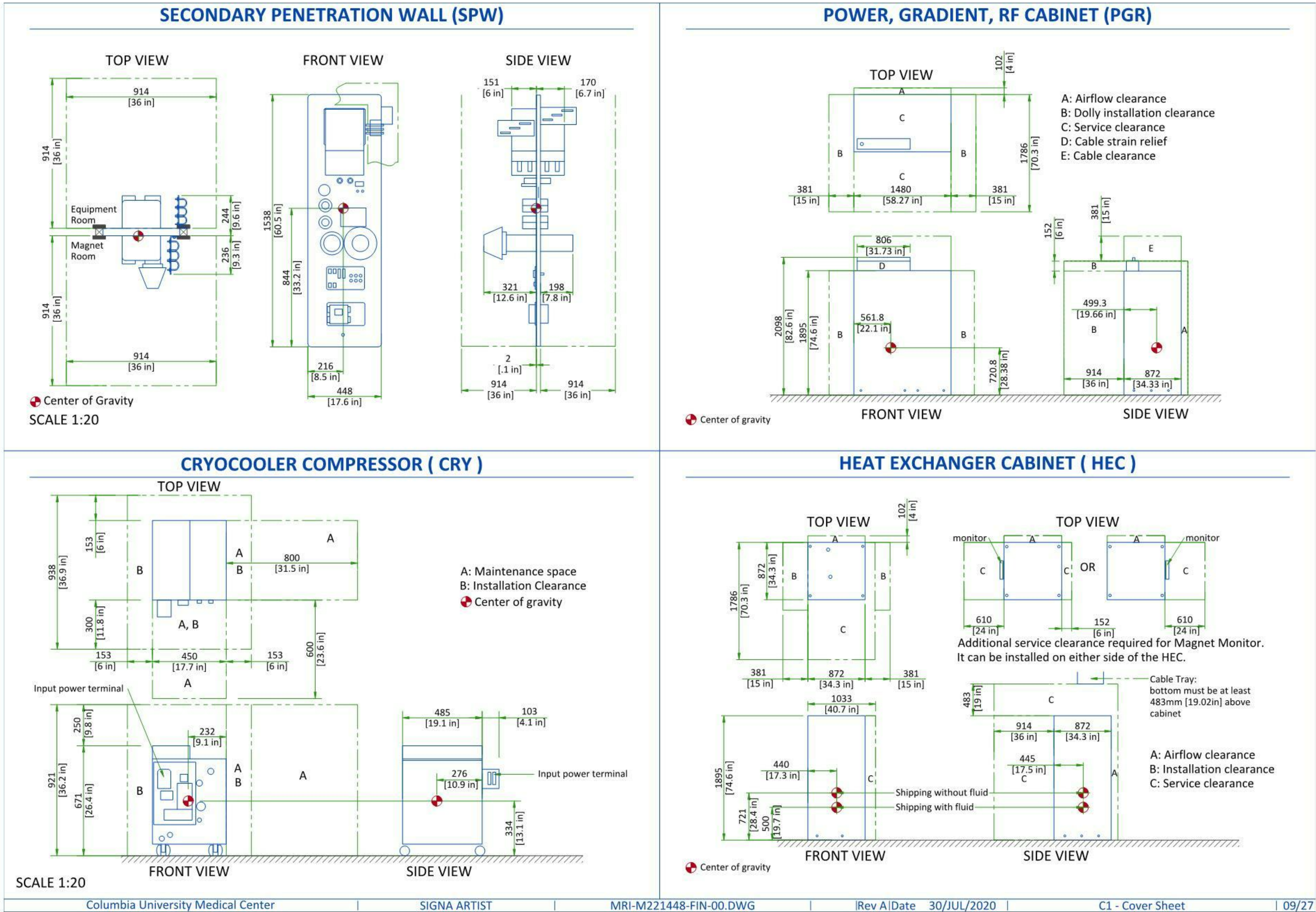
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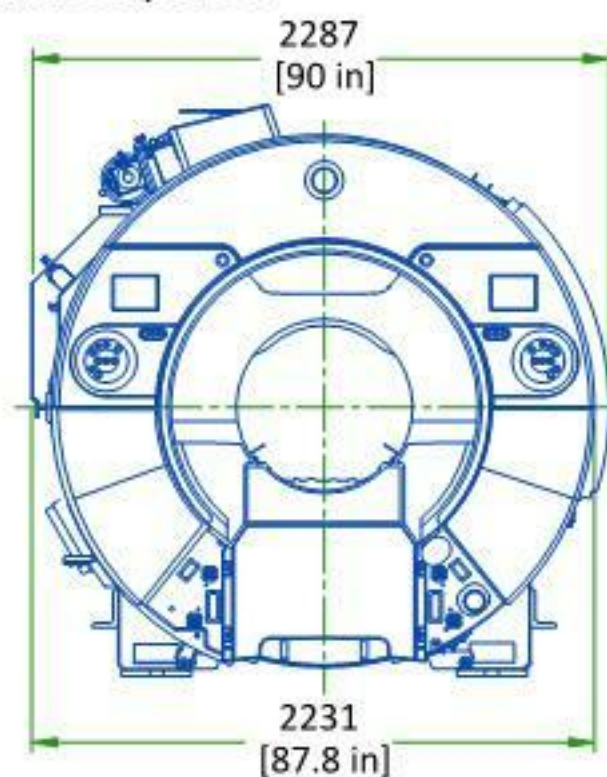
## ROUTING

## ROUTING

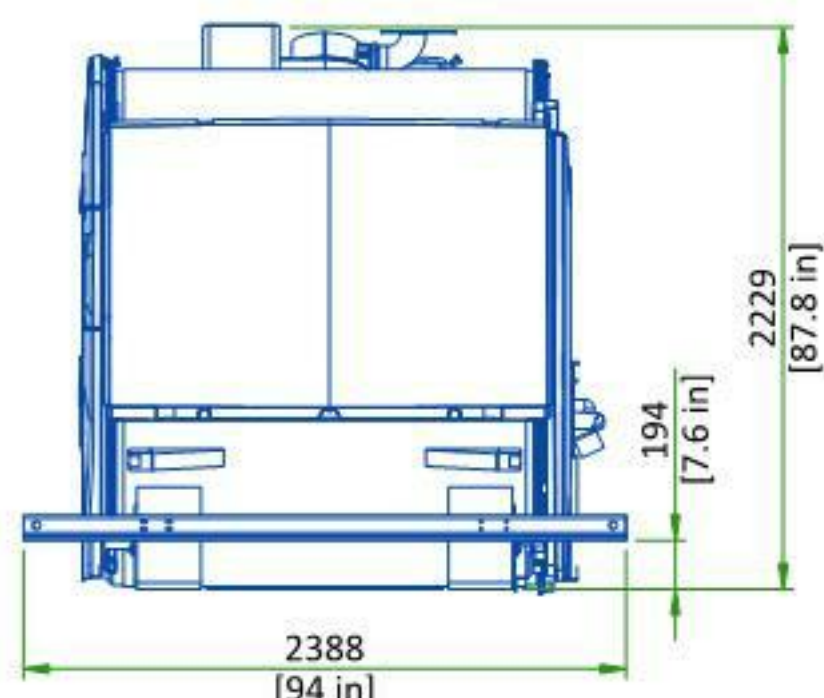
- The customer is solely liable for routing of components from dock to final site.
- GE must be able to move system components in or out with no need to uncrate or disassemble any of the components. The entire passageway must be cleared, adequately lighted and free from dust.
- The floor and its surfacing must be able to withstand the live load of components and handling equipment.
- Floor surfacing must be continuous.
- The customer must protect any fragile flooring surfaces.

## MINIMUM SPECIFICATIONS FOR MAGNET ROUTING

- Floor must be able to withstand a moving load of 4823kg
- Height: 2238 mm [88.11in], width: 2303 mm [90.66in]
- Maximum slope: 30°



FRONT VIEW OF MAGNET

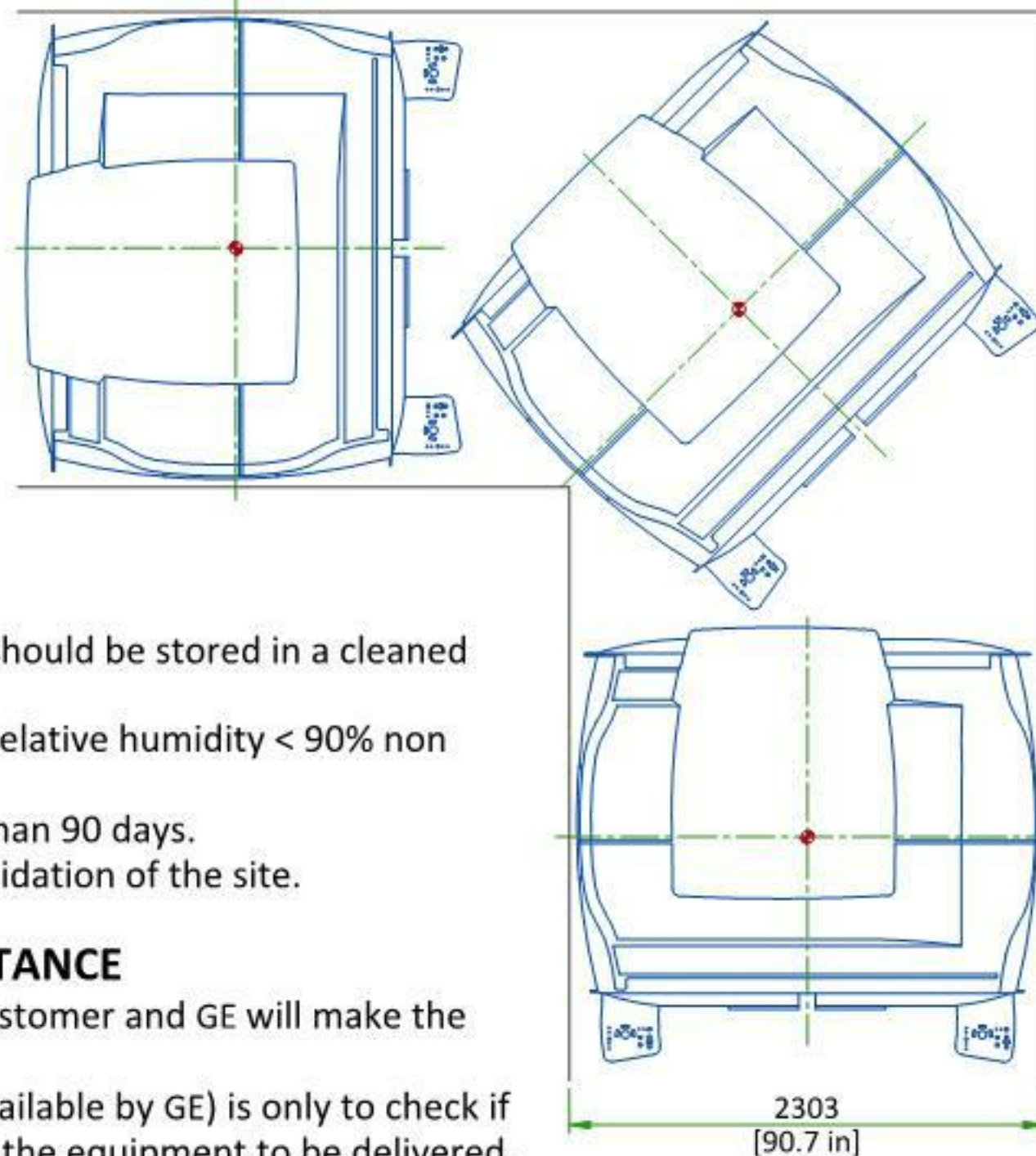
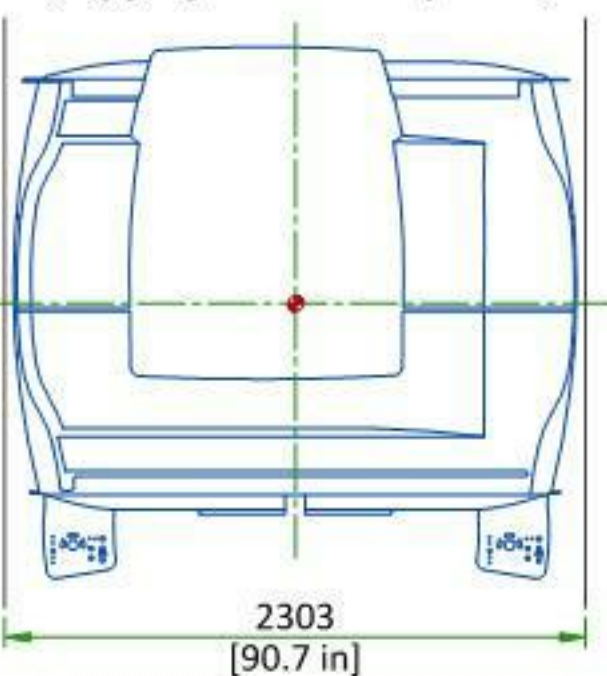


SIDE VIEW OF MAGNET

Recommended opening for side (wall) delivery : 2400 mm [90.55in] (width) x 2500 mm [98.42in] (height)

STRAIGHT PATH  
(Rigging wheels required)

### PATH WITH 90 DEGREE TURN



## STORAGE CONDITIONS

- System components except the magnet should be stored in a cleaned room:
- Temperature = -30 to 60°C [-22 to 140], relative humidity < 90% non condensing.
- Material should not be stored for more than 90 days.
- The magnet will be delivered after GE validation of the site.

## INSTALLATION AND DELIVERY ACCEPTANCE

- A survey of the site established by the customer and GE will make the decision for the delivery time.
- This survey of the site (a form is made available by GE) is only to check if the apparent conditions of the site allow the equipment to be delivered.
- If the site is not ready, GE can delay the delivery time.

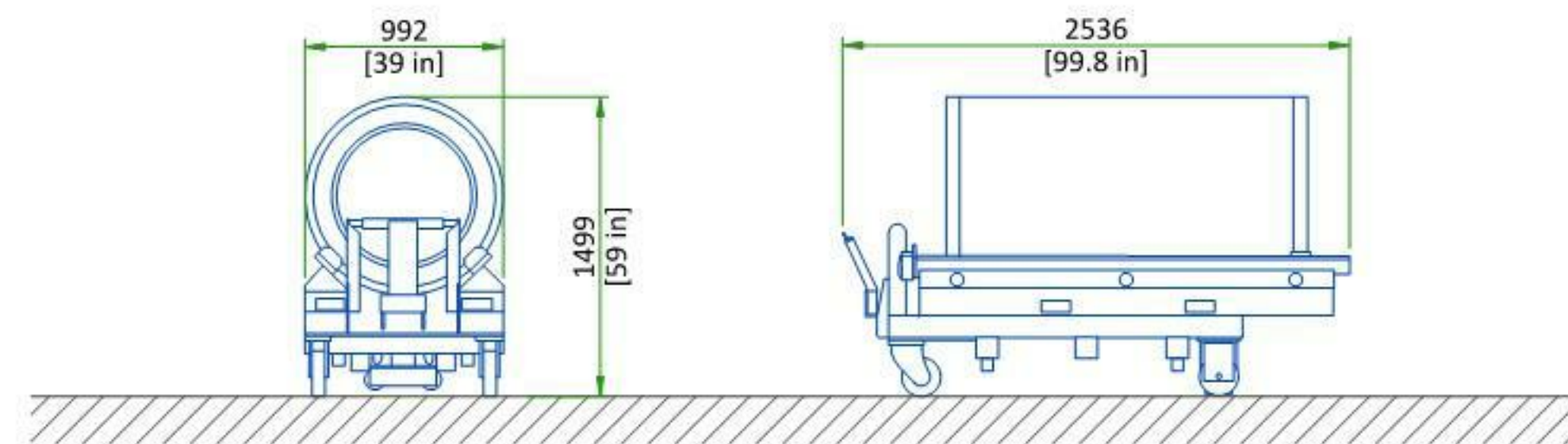
Columbia University Medical Center	SIGNA ARTIST	MRI-M221448-FIN-00.DWG	Rev A   Date 30/JUL/2020	C1 - Cover Sheet	10/27
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## CRITICAL ITEMS FOR MAGNET DELIVERY

- 24/7 chilled water and 480v power for shield/cryo cooler
- 24/7 120v power for the magnet monitor
- Phone lines for magnet monitoring and emergency use
- Magnet room exhaust fan
- Cryogen venting (if roof hatch, completed within 24 hrs)

This is only a partial list of items required for delivery of the magnet. For a complete checklist refer to the pre-installation manual referenced on cover sheet.

## GRADIENT COIL REPLACEMENT



### Front view of the BRM Gradient

Side view of the BRM Gradient

EQUIPMENT	DIMENSIONS LxWxH		WEIGHT		NOTE
	mm	in	kg	lbs	
Replacement BRM gradient coil assembly on a shipping cradle/cart	991x2536x1499	39x99.84x59	1449	3194	Initial gradient coil assembly is shipped installed in the magnet. Shipping/installation cart is used to install re-placement coil assembly only.

The weight bearing structure of the site should support any additional weight of the main replacement parts occurring during maintenance of the magnet, throughout the whole lifecycle of the MR.



**SHEET TITLE:**  
**GE MR-A9**

**SHEET NO.**

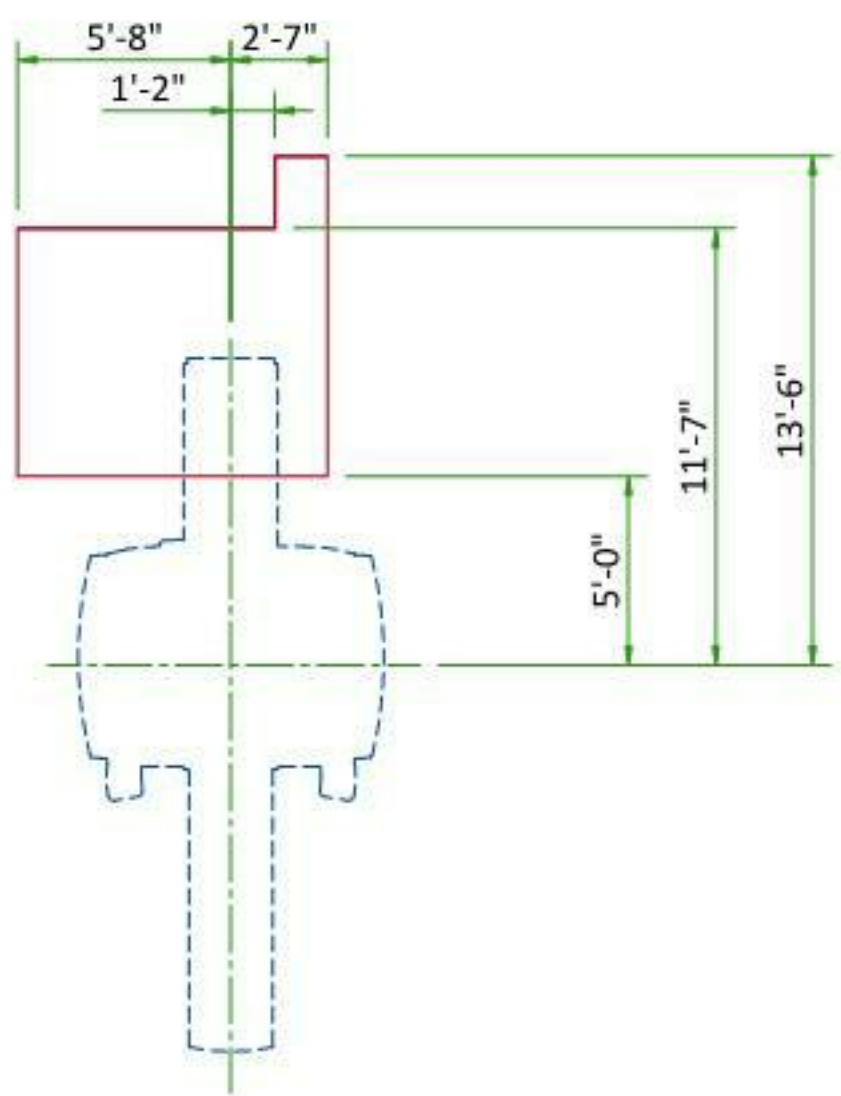
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All surfaces are 1/8" M36



- Attractive force of a magnet on the ceiling and walls of the steel shield will be a maximum of 30% of the shield's weight. Support structure must account for these additional forces.
- Attractive forces on the floor or sub-floor may be sufficient to lift shield's weight. Support structure must prevent this with adhesive or bracing.
- M36 Silicon steel is used in this shield. see shielding requirements sheets for specifications.

GE HEALTHCARE ("GE") provides this magnetic shielding design solely for use with GE's Magnetic Resonance System ("System"). This magnetic shielding design applies solely to the magnetic resonance suite configured as shown in this drawing set.

The magnetic shield, shown in this set, when constructed in strict accordance with this magnetic shield design will:

1. Contain the MRI-generated magnetic induction of 5 gauss within 11'-10" plan north of the magnet's isocenter.

("Design Objectives"), subject to and conditioned upon the following:

1. The magnetic field strength measurements are conducted using techniques which account for the effects of the earth's magnetic field and;
2. The magnetic field strength measurements are conducted using techniques which account for magnetic field distortions caused by magnetic materials in the vicinity of the measurement and;
3. Customer demonstrates to GE that the shielding material and fabrications are in strict accordance with GE's design and specifications and;
4. Customer demonstrates to GE that the shielding is installed in strict accordance with GE's design, specifications and requirements and;
5. Customer demonstrates to GE that (i) the System has not been and is not being subjected to improper or extraordinary use, (ii) the System has not been and is not being subjected to improper maintenance, and (iii) Customer has complied with all applicable instructions or recommendations of GE related to the System and magnetic shield; and
6. Customer operates the System at or below its specified field strength.

GE will re-perform the magnetic shielding design services, to the extent that GE determines the design services fail to meet the Design Objectives specified above, provided GE is notified in writing by Customer of such failure within one (1) week after the date of availability of the System for first use, subject to all other terms and conditions of the agreement between GE and Customer for the purchase or lease of the System.

The foregoing sets forth Customer's exclusive remedies and GE's sole liability for claims based on the failure of the magnetic shielding design services to meet the Design Objectives. In no event shall GE be liable for special or consequential damages.

The magnetic field gradients resulting from the magnetic shield's effect on the System's magnet will allow the System's magnet to meet published homogeneity specifications upon completion of required installation procedures.

The final performance of the magnetic shield set forth in this drawing set depends on strict adherence to the construction and material requirements detailed herein. Any deviation from these requirements will degrade shielding effectiveness. For this reason GE recommends that only established magnetic shielding vendors be used. Vendors should be required to provide documentary evidence to demonstrate that their shielding product complies with GE's construction requirements, material requirements, chemical composition specifications, and annealing specifications; or the material's DC magnetization curve at high induction is equivalent to GE's specification on SH2. A guarantee that the finished shield will meet the Customer's fringe field containment requirements should be sought from the shielding vendor.

The iso-gauss contours shown on this drawing set indicate the magnetic fringe field containment which corresponds to the predicted interaction between the System and the magnetic shield design described. GE creates these iso-gauss contour plots only to predict if the shield design meets the Design Objectives. All other effects such as the superposition of the earth's magnetic field, residual magnetism, and localized field concentration effects, due to ferromagnetic structural elements, are not considered or indicated. The exact location of a particular iso-gauss contour may differ from that shown due to: (1.) the above stated reasons and (2.) the resolution limits of the mathematical modeling techniques used to derive these results. Note also that for actively shielded Systems, fault conditions may exist where the iso-gauss contours expand temporarily (refer to your System's Pre-Installation Manual for exact information regarding fault expansions).

The Customer is responsible for the effect of the fringe fields produced by the System's magnet, and is responsible for the coordination of the magnetic shield design into existing or planned facilities, such as foundations/footings and other building components.

The Design Objectives have been formulated by GE from information, both written and verbal, obtained from the Customer, his agents, and/or representatives as part of the MR Site Evaluation process. The final decision on the Design Objectives criteria and the amount of magnetic field containment needed at this site rests solely with the Customer or his designated representatives. Please contact MR Siting/Shielding immediately with any corrections and/or additions related to this magnetic shield design.

GE recommends that your final shield fabrication drawings be forwarded for review. Any deviations from the design specified in this drawing set must be brought to the attention of GE. Please allow up to two weeks for the review process.

Send drawings to your Project Manager as identified on the cover sheet.

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Columbia University Medical Center	SIGNA ARTIST	MRI-M221448-FIN-00.DWG	1:100	Rev A	Date 30/JUL/2020	A9 - Shield Requirements (1)	11/27
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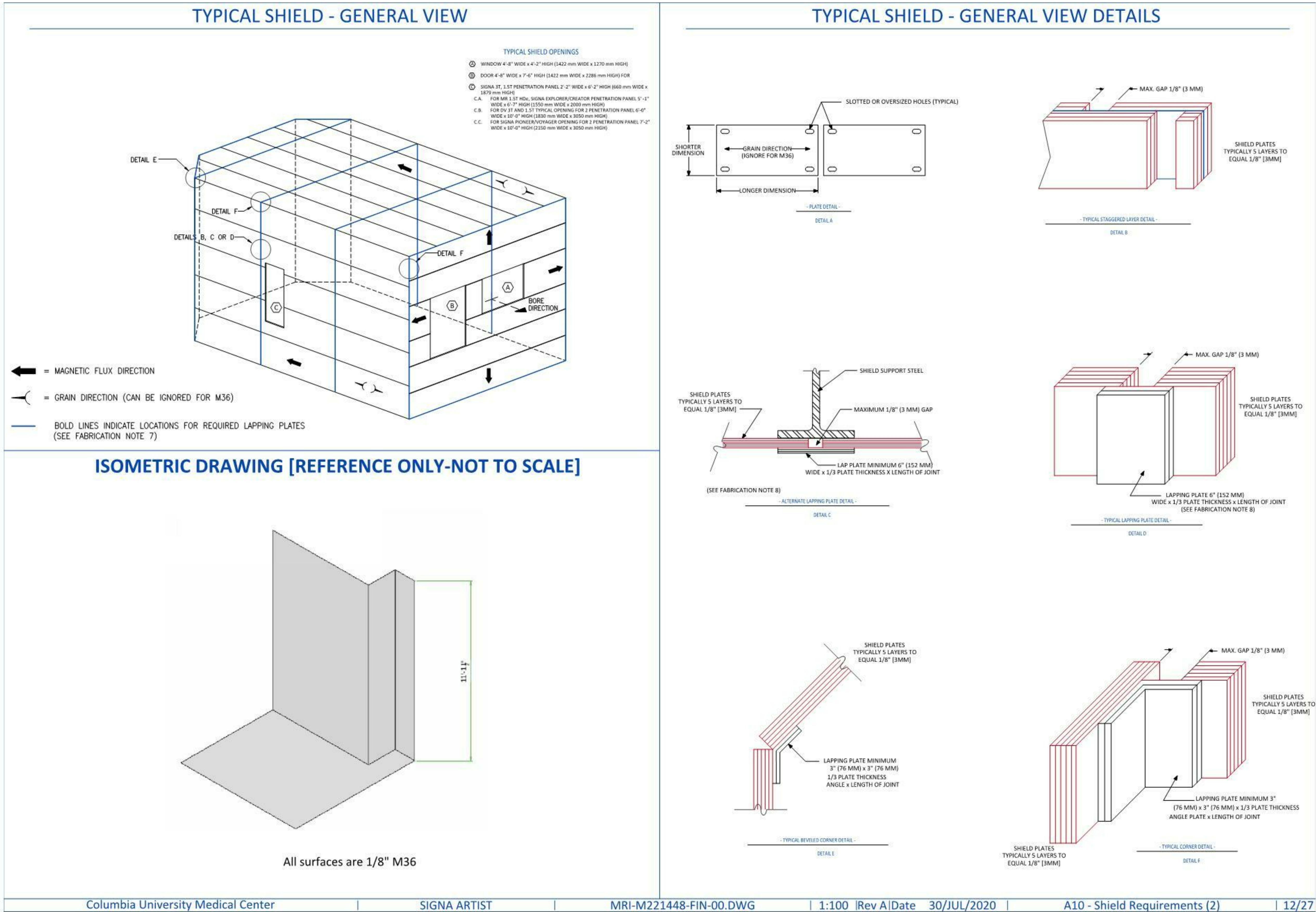
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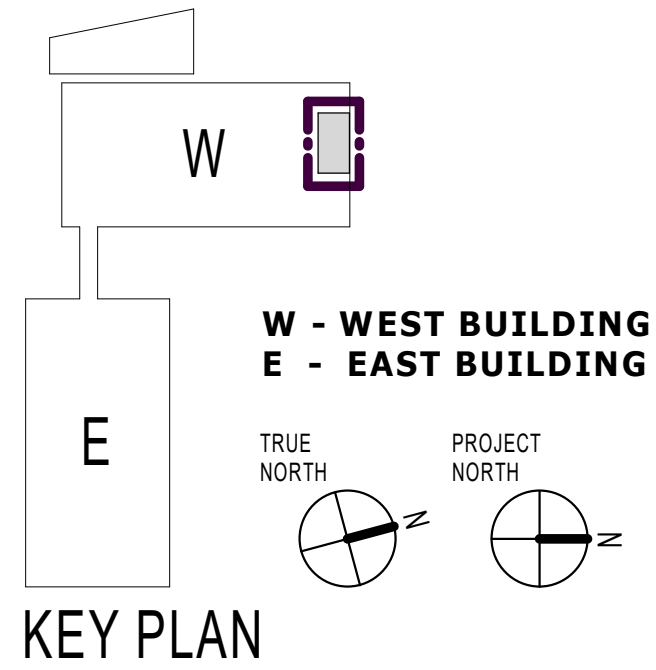
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**PROJECT:**

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REVISIONS/ISSUES		

**SHEET TITLE:**  
**GE MRI-A10**

**SEAL:**

DATE: 06/16/21  
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PROJECT No. 6109  
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**V-112.00**

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STRUCTURAL NOTES

- All units that are wall mounted or wall supported are to be provided with supports where necessary. Wall supports are to be supplied and installed by the customer or his contractors.
- Dimensions are to finished surfaces of room.
- Certain MR procedures require an extremely stable environment to achieve high resolution image quality. Vibration is known to introduce field instabilities into the imaging system. The vibration effects on image quality can be minimized during the initial site planning of the mr suite by minimizing the vibration environment. See [PROXIMITY LIMITS](#), [PATIENT TABLE DOCK ANCHOR MOUNTING REQUIREMENTS AND VIBROACOUSTIC DAMPENING KIT](#) details for additional information.
- Standard steel studs, nails, screws, conduit, piping, drains and other hardware are acceptable if properly secured. Any loose steel objects can be violently accelerated into the bore of the magnet. Careful thought should be given to the selection of light fixtures, cabinets, wall decorations, etc. To minimize this potential hazard. For safety, all removable items within the magnet room such as faucet handles, drain covers, switch box cover plates, light fixture components, mounting screws, etc. must be non-magnetic. If you have a specific question about material, bring it to the attention of your GE project manager of installations.
- Floor levelness refer to [MAGNET ROOM FLOOR SPECIFICATIONS DETAIL](#), this floor levelness requirement is important for accurate patient table docking.
- Non-movable steel such as wall studs or hvac components will produce negligible effect on the active shield magnet.
- Customers contractor must provide all penetrations in post tension floors.
- Customers contractor must provide and install any non-standard anchoring. Documents for standard anchoring methods are included with GE equipment drawings for geographic areas that require such documentation.
- Customers contractor must provide and install hardware for "through the floor" anchoring and/or any bracing under access floors. This contractor must also provide floor drilling that cannot be completed because of an obstruction encountered while drilling by the GE installer such as rebar etc.
- Customers contractor to provide and install appropriate supports for the storage of excess cables.
- It is the customer's responsibility to perform any floor or wall penetrations that may be required. The customer is also responsible for ensuring that no subsurface utilities (e.g., electrical or any other form of wiring, conduits, piping, duct work or structural supports (i.e. post tension cables or rebar)) will interfere or come in contact with subsurface penetration operations (e.g. drilling and installation of anchors/screws) performed during the installation process. To ensure worker safety, GE installers will perform surface penetration operations only after the customer's validation and completion of the "GE surface penetration permit"

VIBRATION SPECIFICATIONS

Excessive vibration can affect MR image quality. Vibration testing must be performed early in the site planning process to ensure vibration is minimized. Both steady state vibration (exhaust fans, air conditioners, pumps, etc.) and transient vibrations (traffic, pedestrians, door slamming, etc.) must be assessed.The Magnet cannot be directly isolated from vibration. Any vibration issue must be resolved at the source.

Transient vibration levels above the specified limits in the MR Site Vibration Test Guidelines must be analyzed. Any transient vibration that causes vibration to exceed the steady-state level must be mitigated.

MAGNET STEADY-STATE VIBRATION SPECIFICATIONS

Excitation Frequency [Hz]	Acceleration g's (10 <sup>-4</sup> ) Above ambient baseline
5	50
10	100
15	150
20	200
25	250
30	300
35	350
40	750
45	750
50	750

VIBRATION TRANSMITTED THROUGH VIBROACOUSTIC MAT

1/3 Octave Frequency [Hz]	Vibration [m/s <sup>2</sup> ]
12.5	0.005
16	0.005
20	0.005
25	0.005
31.5	0.005
40	0.005
50	0.005
63	0.005
80	0.005
100	0.005
125	0.005
160	0.005
200	0.005
250	0.005
315	0.025
400	0.125
500	0.075
630	0.225
800	0.11
1000	0.055
1250	0.03
1600	0.03
2000	0.025
2500	0.035

Columbia University Medical Center

SIGNA ARTIST

MRI-M221448-FIN-00.DWG

Rev A|Date 30/JUL/2020

C1 - Cover Sheet

14/27

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E - EAST BUILDING

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GE MR-S1

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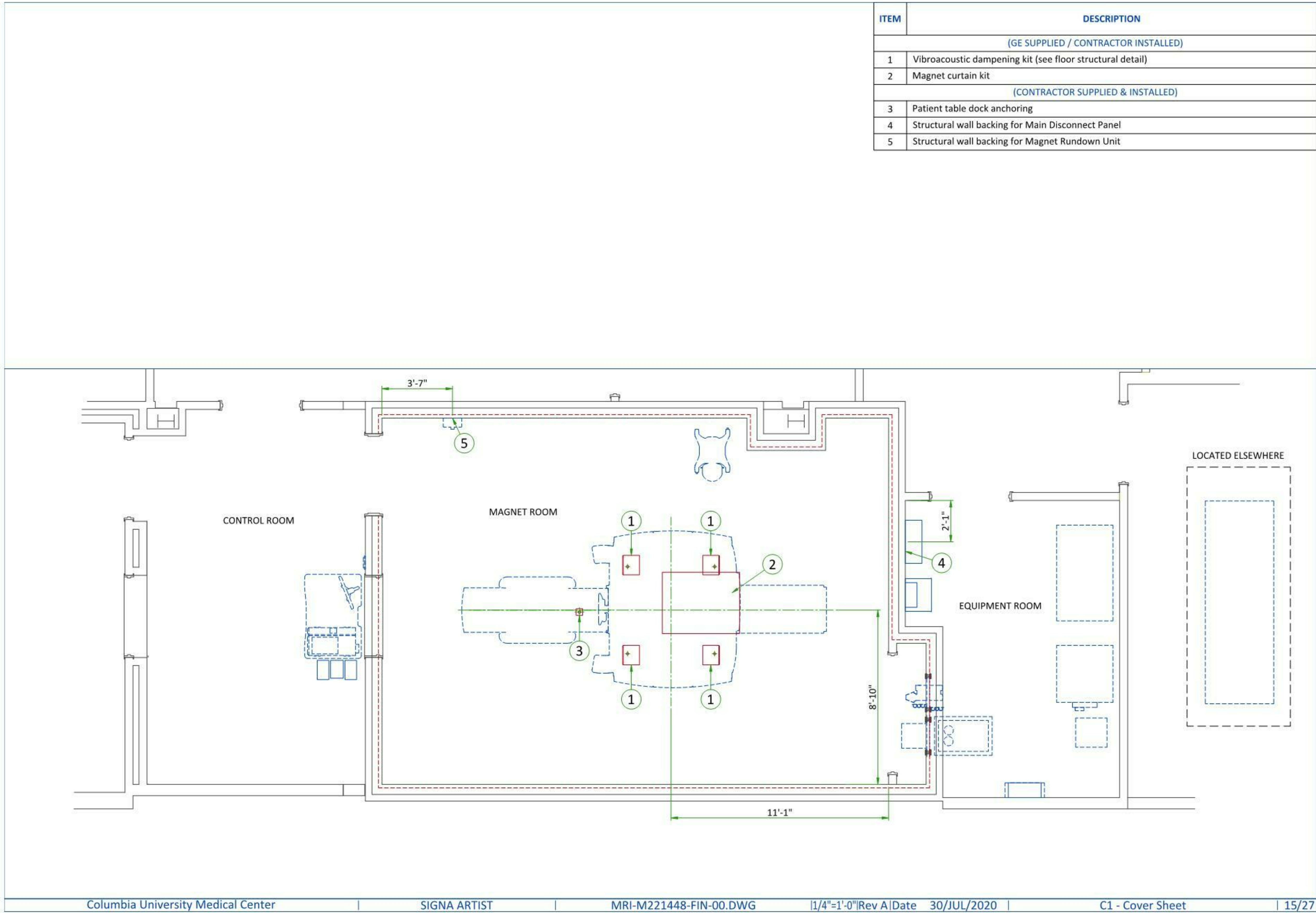
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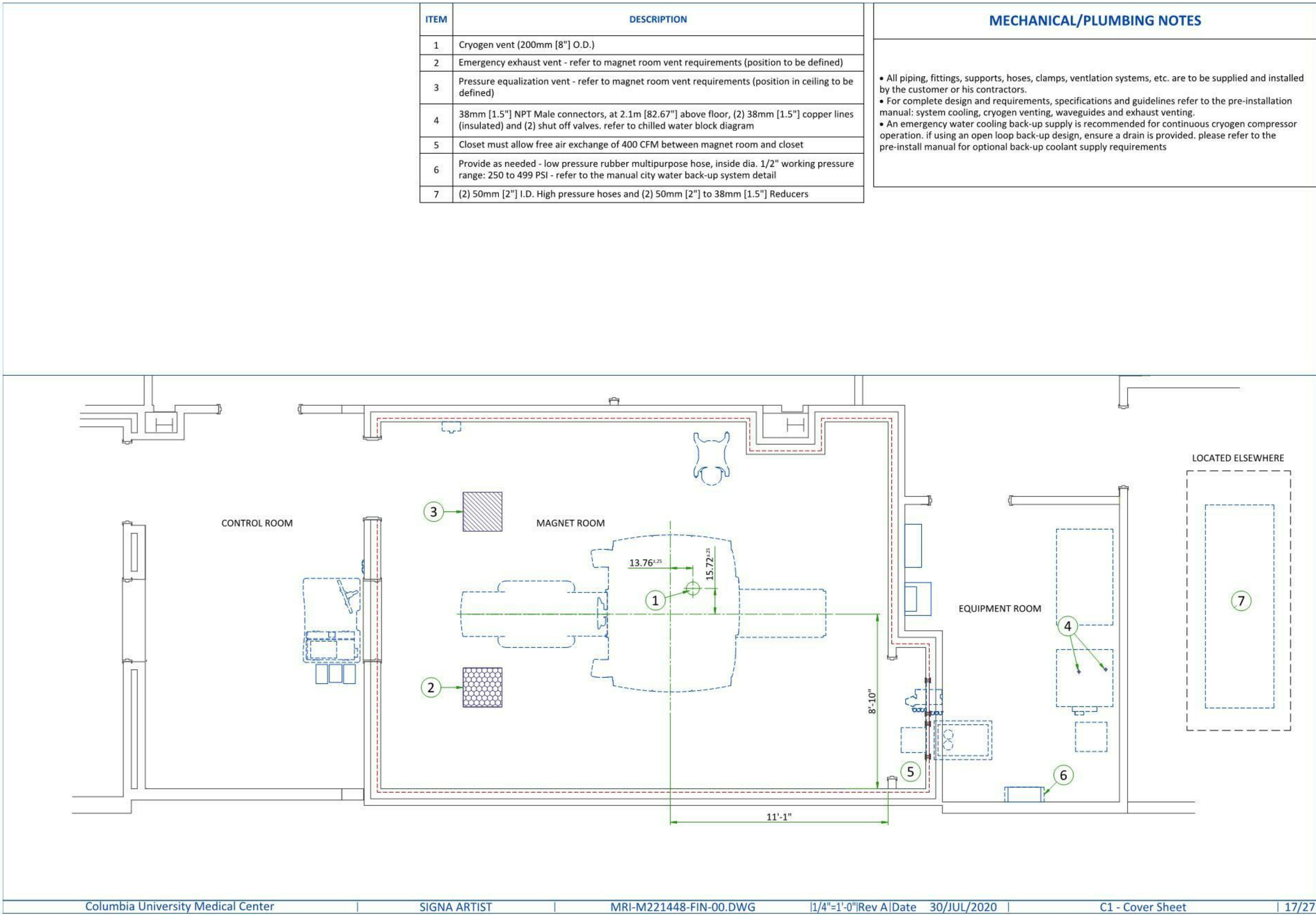
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**PROJECT:**

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**KEY PLAN**

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**SHEET TITLE:**

GE MRI-M1

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MAGNET CRYOGENIC VENT SYSTEM PRESSURE DROP MATRIX																									
Outer dia. of pipe (D)	Distance of vent system componen t from magnet		Pressure drop for straight pipe		Std sweep 45° elbow		Long sweep 45° elbow		Std sweep 90° elbow		Long sweep 90° elbow		90° miter												
	ft	m	psi/ft	kPa/m	psi	kPa	psi	kPa	psi	kPa	psi	kPa	psi	kPa											
6 in. (Inside dia. ≥144mm)	10	3.048	0.146	3.311	0.804	5.544	0.536	3.696	1.507	10.394	1.005	6.93	3.014	20.789											
	20	6.096	0.253	5.715	1.356	9.355	0.904	6.237	2.543	17.54	1.696	11.694	5.087	35.081											
	30	9.144	0.374	8.451	1.845	12.727	1.23	8.485	3.46	23.864	2.307	15.909	6.92	47.727											
	40	12.192	0.473	10.699	2.278	15.708	1.518	10.472	4.271	29.453	2.847	19.635	8.541	58.906											
	50	15.24	0.554	12.534	2.66	18.342	1.773	12.228	4.987	34.392	3.325	22.928	9.974	68.783											
	60	18.288	0.62	14.019	2.997	20.668	1.998	13.779	5.619	38.753	3.746	25.835	11.238	77.506											
8 in. (Inside dia. ≥195mm)	10	3.048	0.025	0.564	0.188	1.294	0.125	0.862	0.352	2.426	0.234	1.617	0.703	4.851											
	20	6.096	0.043	0.97	0.313	2.158	0.209	1.439	0.587	4.046	0.391	2.697	1.173	8.092											
	30	9.144	0.064	1.45	0.427	2.944	0.285	1.963	0.8	5.52	0.534	3.68	1.601	11.04											
	40	12.192	0.082	1.862	0.53	3.658	0.354	2.439	0.995	6.859	0.663	4.573	1.989	13.718											
	50	15.24	0.098	2.215	0.624	4.307	0.416	2.871	1.171	8.075	0.781	5.383	2.342	16.15											
	60	18.288	0.111	2.516	0.71	4.895	0.473	3.263	1.331	9.179	0.887	6.119	2.662	18.357											
	80	24.384	0.132	2.987	0.857	5.914	0.572	3.942	1.608	11.088	1.072	7.392	3.216	22.176											
	100	30.48	0.147	3.318	0.979	6.752	0.653	4.501	1.836	12.659	1.224	8.439	3.671	25.318											
	120	36.576	0.157	3.545	1.079	7.44	0.719	4.96	2.023	13.95	1.3490	9.3	4.046	27.901											
	140	42.672	0.163	3.693	1.161	8.006	0.774	5.338	2.177	15.012	1.451	10.008	4.353	30.024											
10 in. (Inside dia. ≥247mm)	160	48.768	0.167	3.784	1.228	8.471	0.819	5.648	2.303	15.884	1.535	10.589	4.606	31.768											
	180	54.864	0.169	3.833	1.2840	8.853	0.856	5.902	2.407	16.6	1.605	11.067	4.814	33.2											
	20	6.096	0.011	0.241	0.099	0.683	0.066	0.455	0.186	1.28	0.124	0.854	0.371	2.561											
	40	12.192	0.021	0.468	0.168	1.16	0.112	0.773	0.315	2.175	0.21	1.45	0.631	4.351											
	60	18.288	0.029	0.645	0.227	1.568	0.152	1.045	0.426	2.94	0.284	1.96	0.853	5.88											
	80	24.384	0.035	0.781	0.278	1.916	0.185	1.277	0.521	3.592	0.347	2.395	1.042	7.184											
	100	30.48	0.039	0.884	0.321	2.212	0.214	1.474	0.601	4.147	0.401	2.765	1.203	8.294											
	120	36.576	0.042	0.96	0.357	2.464	0.238	1.642	0.67	4.619	0.447	3.08	1.34	9.239											
12 in. (Inside dia. ≥298mm)	140	42.672	0.045	1.016	0.388	2.678	0.259	1.785	0.728	5.021	0.485	3.348	1.456	10.043											
	160	48.768	0.047	1.056	0.415	2.86	0.276	1.907	0.778	5.363	0.518	3.575	1.555	10.726											
	180	54.864	0.048	1.083	0.437	3.015	0.291	2.01	0.82	5.653	0.547	3.769	1.64	11.307											
	200	60.99	0.049	1.101	0.456	3.147	0.304	2.098	0.856	5.9	0.57	3.934	1.711	11.801											
	20	6.096	0.004	0.08	0.04	0.277	0.027	0.184	0.075	0.519	0.05	0.346	0.15	1.037											
	40	12.192	0.007	0.157	0.068	0.47	0.045	0.313	0.128	0.88	0.085	0.587	0.255	1.761											
	60	18.288	0.01	0.22	0.093	0.638	0.062	0.425	0.174	1.197	0.116	0.798	0.347	2.393											
	80	24.384	0.012	0.269	0.114	0.786	0.076	0.524	0.214	1.473	0.142	0.982	0.427	2.946											
	100	30.48	0.014	0.309	0.133	0.914	0.088	0.609	0.248	1.714	0.166	1.142	0.497	3.427											
	120	36.576	0.015	0.34	0.149	1.026	0.099	0.684	0.279	1.923	0.186	1.282	0.558	3.847											
	140	42.672	0.016	0.364	0.163	1.123	0.109	0.749	0.305	2.106	0.204	1.404	0.611	4.212											
	160	48.768	0.017	0.382	0.175	1.208	0.117	0.805	0.328	2.265	0.219	1.51	0.657	4.529											
180	54.864	0.018	0.396	0.186	1.282	0.124	0.854	0.348	2.403	0.232	1.602	0.697	4.806												
200	60.96	0.018	0.406	0.195	1.346	0.13	0.897	0.366	2.523	0.244	1.682	0.732	5.046												

Notes

1. Elbows with angles greater than 90 deg must not be used

2. Data in Table is based on the following facts and assumptions:

a. Initial flow conditions at magnet interface

b. EM energy (13MJ) is dumped to He during quench and rises He temperature to 10 Kelvin

c. Gas temperature starting at 10 Kelvin and increase with length determined by thermal energy balance

d. 90% He is assumed to be evacuated within 30 sec. None left after quench.

e. Absolute roughness is assumed to be 0.25 mm.

f. R/D = 1.0 for standard sweep elbows, R/D = 1.5 for long sweep elbows where D = outer diameter of pipe; R = radius of bend

3. The total pressure drop of the entire cryogenic vent system must be less than 20 psi (137.9 kPa). The calculation starts at the magnet vent interface and ends at the termination point outside the building.

Columbia University Medical Center					SIGNA ARTIST					MRI-M221448-FIN-00.DWG					Rev A Date 30/JUL/2020					C1 - Cover Sheet					21/27
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Notes

- Elbows with angles greater than 90 deg must not be used
- Data in Table is based on the following facts and assumptions:
  - Initial flow conditions at magnet interface
  - EM energy (13MJ) is dumped to He during quench and rises He temperature to 10 Kelvin
  - Gas temperature starting at 10 Kelvin and increase with length determined by thermal energy balance
  - 90% He is assumed to be evacuated within 30 sec. None left after quench.
  - Absolute roughness is assumed to be 0.25 mm.
  - R/D = 1.0 for standard sweep elbows, R/D = 1.5 for long sweep elbows where D = outer diameter of pipe; R = radius of bend
- The total pressure drop of the entire cryogenic vent system must be less than 20 psi (137.9 kPa). The calculation starts at the magnet vent interface and ends at the termination point outside the building.

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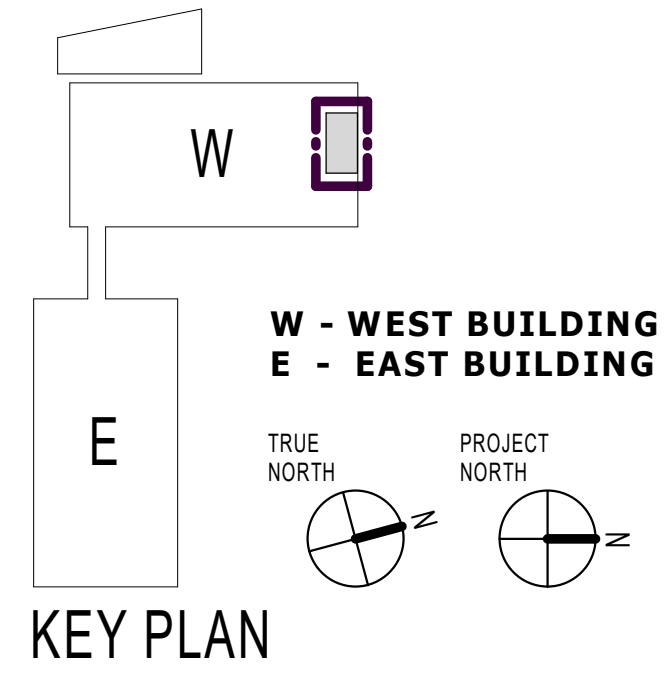
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PROJECT:

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TARRYTOWN, NY 10591



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REVISIONS/ISSUES		

SHEET TITLE:

GE MRI-M5

SEAL:

DATE:06/18/2021  
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CONTRACT No.  
SCALE: AS NOTED  
PROJECT No.6109  
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DRAWN: KU

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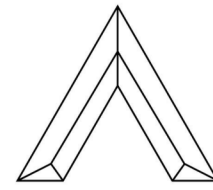
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LIGHTING REQUIREMENTS	ELECTRICAL NOTES				
<ul style="list-style-type: none"><li>• All lighting fixtures and associated components must meet all RF shielded room and RF grounding requirements (e.g., track lighting is not recommended due to possible RF noise).</li><li>• All removable lighting fixtures and associated components must be non-magnetic.</li><li>• All lighting must use direct current (the DC must have less than 5% ripple).</li><li>• 300 lux must be provided at the front of the magnet for patient access and above the magnet for servicing.</li><li>• Fluorescent lighting must not be used in the magnet room.</li><li>• Lighting must be adjusted using a discrete switch or a variable DC lighting controller.</li><li>• SCR dimmers or rheostats must not be used.</li><li>• DC LED lighting may be used if the DC power converter and RF sources are all located outside the magnet room RF shield.<div>NOTE: LED lighting could cause image quality issues due to RF interference. Make sure a MR-compatible LED lighting solution is chosen.</div></li><li>• Battery chargers (e.g., used for emergency lighting) must be located outside the magnet room.</li><li>• Short filament length bulbs are recommended.</li><li>• Linear lamps are not recommended due to the high burnout rate.</li></ul>	<ul style="list-style-type: none"><li>1. All wires specified shall be copper stranded, flexible, thermo-plastic, color coded, cut 10 foot long at outlet boxes, duct termination points or stubbed conduit ends. All conductors, power, signal and ground, must be run in a conduit or duct system. Electrical contractor shall ring out and tag all wires at both ends. Wire runs must be continuous copper stranded and free from splices.<ul style="list-style-type: none"><li>1.1. Aluminum or solid wires are not allowed.</li></ul></li><li>2. Wire sizes given are for use of equipment. Larger sizes may be required by local codes.</li><li>3. It is recommended that all wires be color coded, as required in accordance with national and local electrical codes.</li><li>4. Conduit sizes shall be verified by the architect, electrical engineer or contractor, in accordance with local or national codes.</li><li>5. Convenience outlets are not illustrated. Their number and location are to be specified by others. Locate at least one convenience outlet close to the system control, the power distribution unit and one on each wall of the procedure room. Use hospital approved outlet or equivalent.</li><li>6. General room illumination is not illustrated. Caution should be taken to avoid excessive heat from overhead spotlights. Damage can occur to ceiling mounting components and wiring if high wattage bulbs are used. Recommend low wattage bulbs no higher than 75 watts and use dimmer controls (except MR). Do not mount lights directly above areas where ceiling mounted accessories will be parked.</li><li>7. Routing of cable ductwork, conduits, etc., must run direct as possible otherwise may result in the need for greater than standard cable lengths (refer to the interconnection diagram for maximum usable lengths point to point).</li><li>8. Conduit turns to have large, sweeping bends with minimum radius in accordance with national and local electrical codes.</li><li>9. A special grounding system is required in all procedure rooms by some national and local codes. It is recommended in areas where patients might be examined or treated under present, future, or emergency conditions. Consult the governing electrical code and confer with appropriate customer administrative personnel to determine the areas requiring this type of grounding system.</li><li>10. The maximum point to point distances illustrated on this drawing must not be exceeded.</li><li>11. Physical connection of primary power to GE equipment is to be made by customers electrical contractor with the supervision of a GE representative. The GE representative would be required to identify the physical connection location, and insure proper handling of GE equipment.</li><li>12. GEHC conducts power audits to verify quality of power being delivered to the system. The customer's electrical contractor is required to be available to support this activity.</li></ul> <ul style="list-style-type: none"><li>• All junction boxes, conduit, duct, duct dividers, switches, circuit breakers, cable tray, etc., are to be supplied and installed by customers electrical contractor.</li><li>• Conduit and duct runs shall have sweep radius bends</li><li>• Conduits and duct above ceiling or below finished floor must be installed as near to ceiling or floor as possible to reduce run length.</li><li>• Ceiling mounted junction boxes illustrated on this plan must be installed flush with finished ceiling.</li><li>• All ductwork must meet the following requirements:<ul style="list-style-type: none"><li>1.Ductwork shall be metal with dividers and have removable, accessible covers.</li><li>2.Ductwork shall be certified/rated for electrical power purposes.</li><li>3.Ductwork shall be electrically and mechanically bonded together in an approved manner.</li><li>4.PVC as a substitute must be used in accordance with all local and national codes.</li></ul></li><li>• All openings in raceway and access flooring are to be cut out and finished off with grommet material by the customers contractor.</li><li>• General contractor to insert pull cords for all cable run conduits between the equipment room and the operators control room.</li><li>• 10 foot pigtails at all junction points.</li><li>• Grounding is critical to equipment function and patient safety. Site must conform to wiring specifications shown on this plan.</li></ul>				
Columbia University Medical Center	SIGNA ARTIST	MRI-M221448-FIN-00.DWG	Rev A Date 30/JUL/2020	C1 - Cover Sheet	22/27

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OWNER:

COLUMBIA DOCTOR'S  
TARRYTOWN

PROJECT:

NEW MRI

155 WHITE PLAINS ROAD  
TARRYTOWN, NY 10591

W

E

W - WEST BUILDING

E - EAST BUILDING

TRUE NORTH

PROJECT NORTH

KEY PLAN

NO.	DESCRIPTION	DATE
REVISIONS/ISSUES		

SHEET TITLE:

GE MR-E1

SEAL:

DATE:06/18/2021  
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ITEM

DESCRIPTION  
(CONTRACTOR SUPPLIED & INSTALLED)

1

Cable ladder 450mm x 150mm [18" x 6"]

2

Cable ladder 450mm x 150mm [18" x 6"] for gradient cables

3

Non-ferrous cable ladder 450mm x 150mm [18" x 6"]

4

Non-ferrous cable ladder 450mm x 150mm [18" x 6"] for gradient cables

5

Non-ferrous unistrut cable support

6

300mm x 200mm x 150mm [12" x 8" x 6"] Junction box

7

100mm x 100mm x 50mm [4" x 4" x 2"] Junction box. At 5'-4" above finished floor, on center.

8

Main disconnect panel

9

50mm [2"] Conduit above RF screen

10

63mm [2-1/2"] Conduit above RF screen

11

75mm [3"] Conduit above RF screen

ITEM

Outlet Legend for GE Equipment

System emergency off (SEO), (recommended height 1.2m [48"] above floor)

Door interlock switch

Emergency exhaust fan switch 1.2m [48"] height recommended)

Duplex hospital grade, dedicated wall outlet 120-v, single phase power

Network outlet

Dedicated telephone lines/network connection

Duplex hospital grade, dedicated outlet 120-v emergency, single phase power, 15a

Duplex hospital grade, dedicated outlet 120-v, single phase outlet routed through RF filter

Additional Conduit Runs  
(Contractor Supplied and Installed)

From	To	Qty	Size (in)	Size (mm)
Main Disconnect Panel	Power, Gradient, RF cabinet	1	as Req'd	
	Heat Exchange Cabinet	1	as Req'd	
	System emergency off	1	1/2	16
System emergency off	Secondary Penetration Wall	1	1/2	16
Door Switch	Power, Gradient, RF cabinet	1	3/4	20
System emergency off	Secondary Penetration Wall	1	3/4	20
Magnet Rundown Unit	Magnet	1	1	25
	120-V 1Ø Power from RF filter	1	as Req'd	
RF filter	120-V 1Ø Power	1	as Req'd	
Room Light	RF filter	1	as Req'd	
RF filter	Facility emergency power	1	as Req'd	
Chiller	Remote graphic display	1	3/4	20
	Facility power	1	as Req'd	
Injector control unit	Waveguide or RF filter	1	2 1/2	70
Injector head		1	as Req'd	
Integrated Battery Charging Unit		1	as Req'd	

LOCATED ELSEWHERE

Columbia University Medical Center

SIGNA ARTIST

MRI-M221448-FIN-00.DWG

1/4"=1'-0"Rev A|Date 30/JUL/2020

C1 - Cover Sheet

23/27

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TARRYTOWN, NY 10591

W - WEST BUILDING  
E - EAST BUILDING

TRUE NORTH PROJECT NORTH

KEY PLAN

NO.	DESCRIPTION	DATE
REVISIONS/ISSUES		

SHEET TITLE:  
GE MR-E2

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DATE:06/18/2021  
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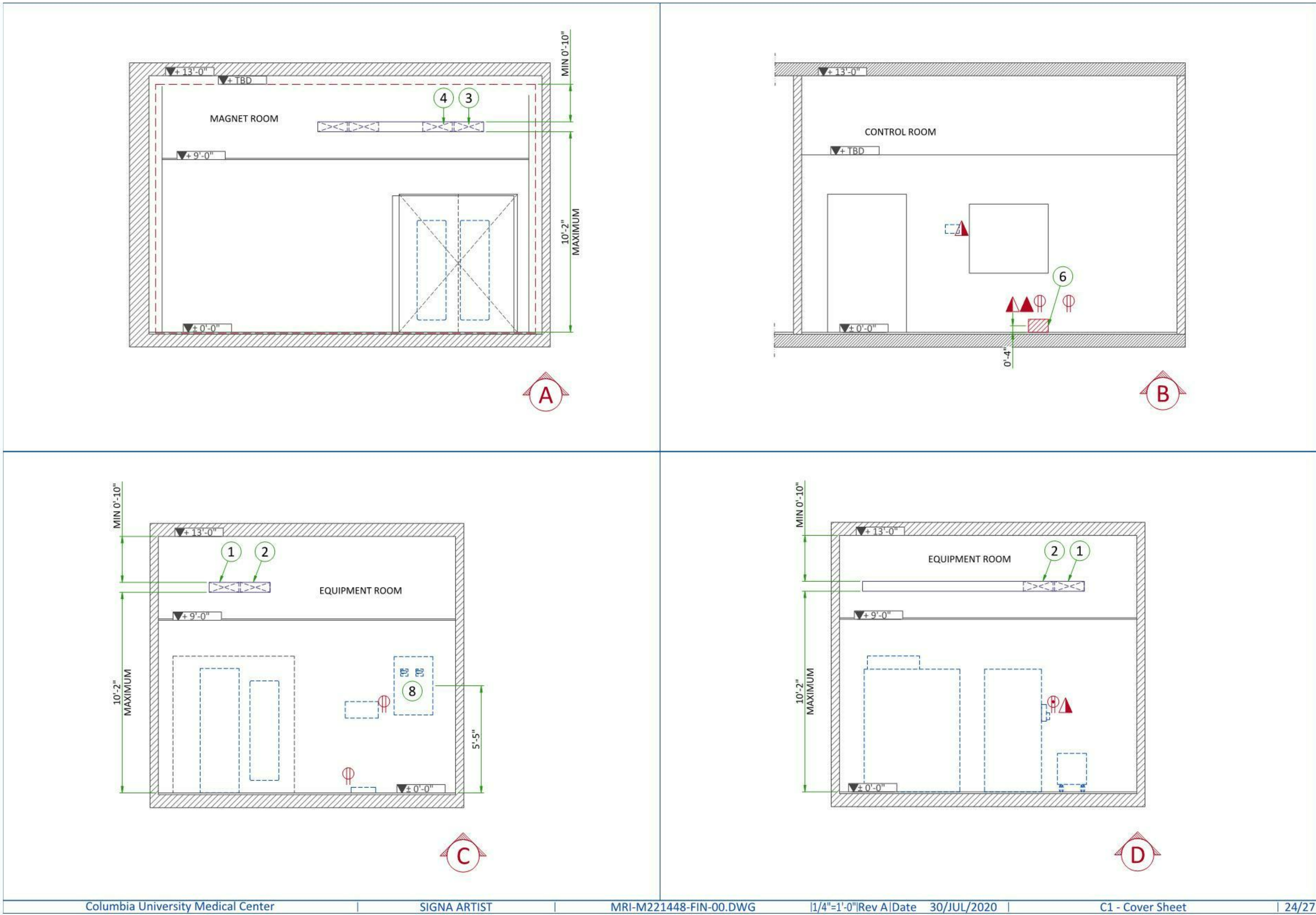
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Columbia University Medical Center

SIGNA ARTIST

MRI-M221448-FIN-00.DWG

1/4"=1'-0"Rev A|Date 30/JUL/2020

C1 - Cover Sheet

24/27



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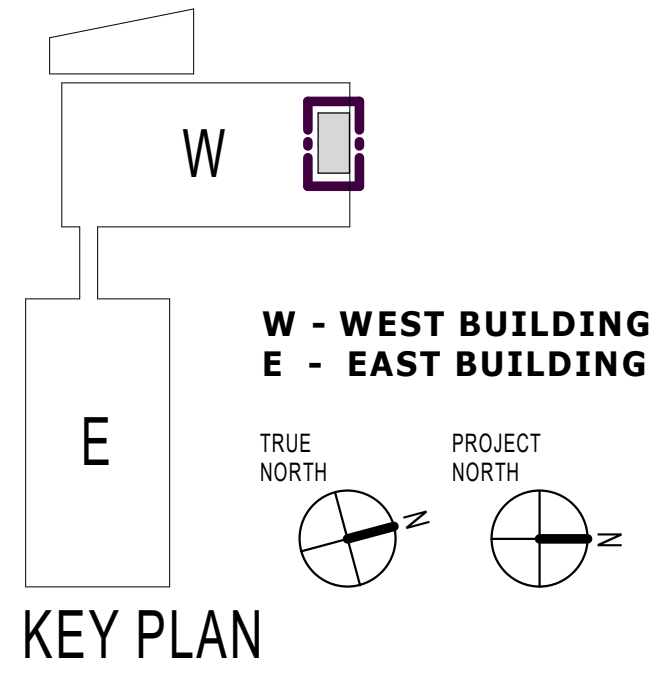
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PROJECT:

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NO.	DESCRIPTION	DATE
REVISIONS/ISSUES		

SHEET TITLE:

GE MRI-E3

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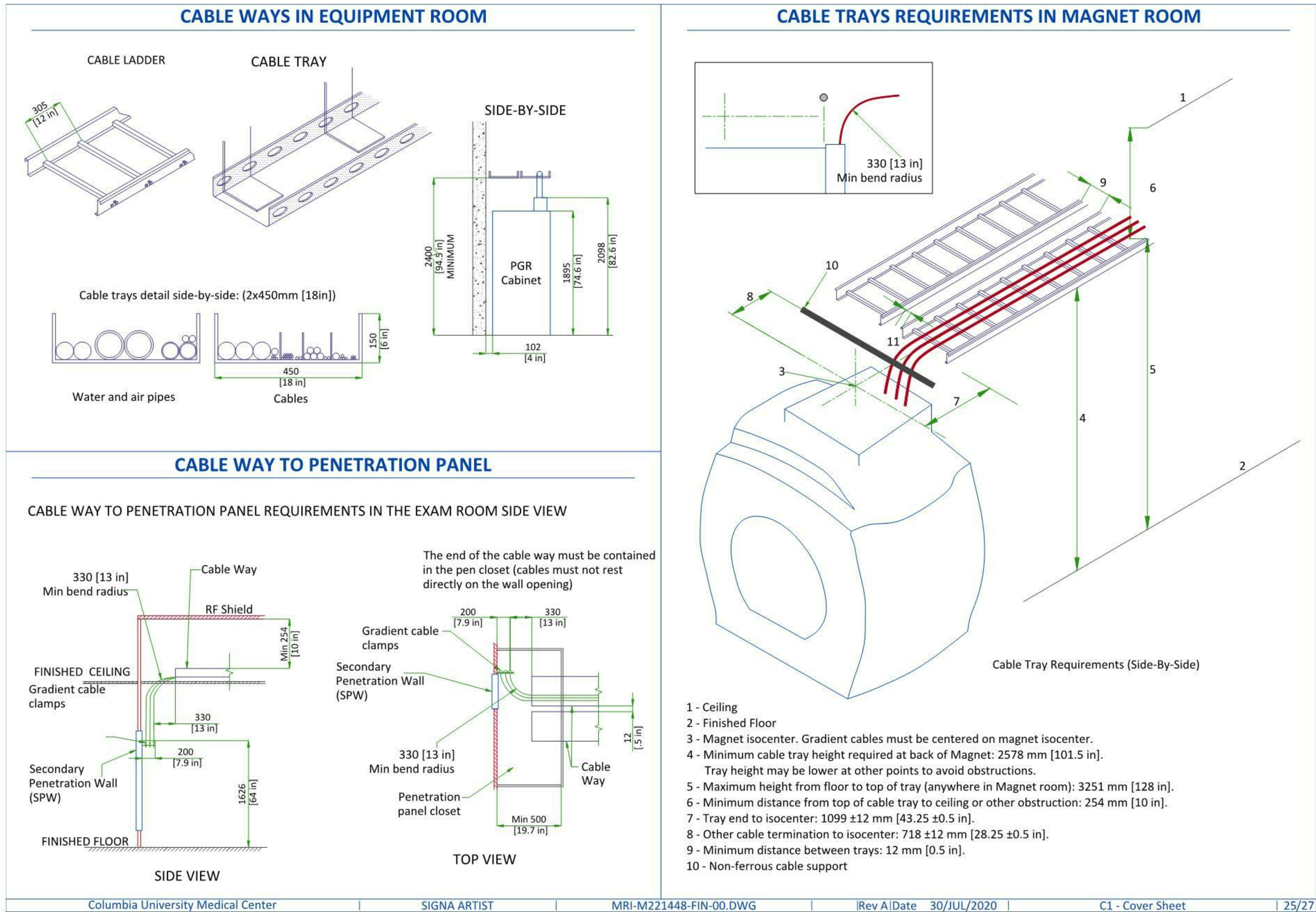
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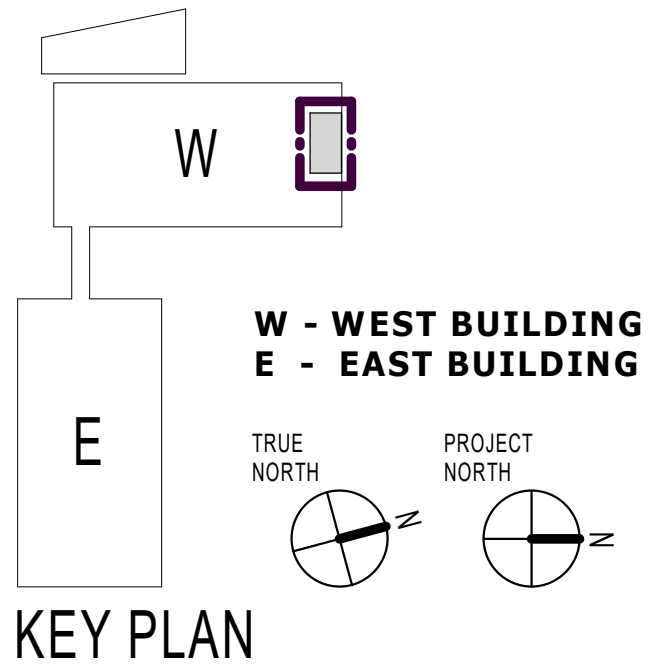
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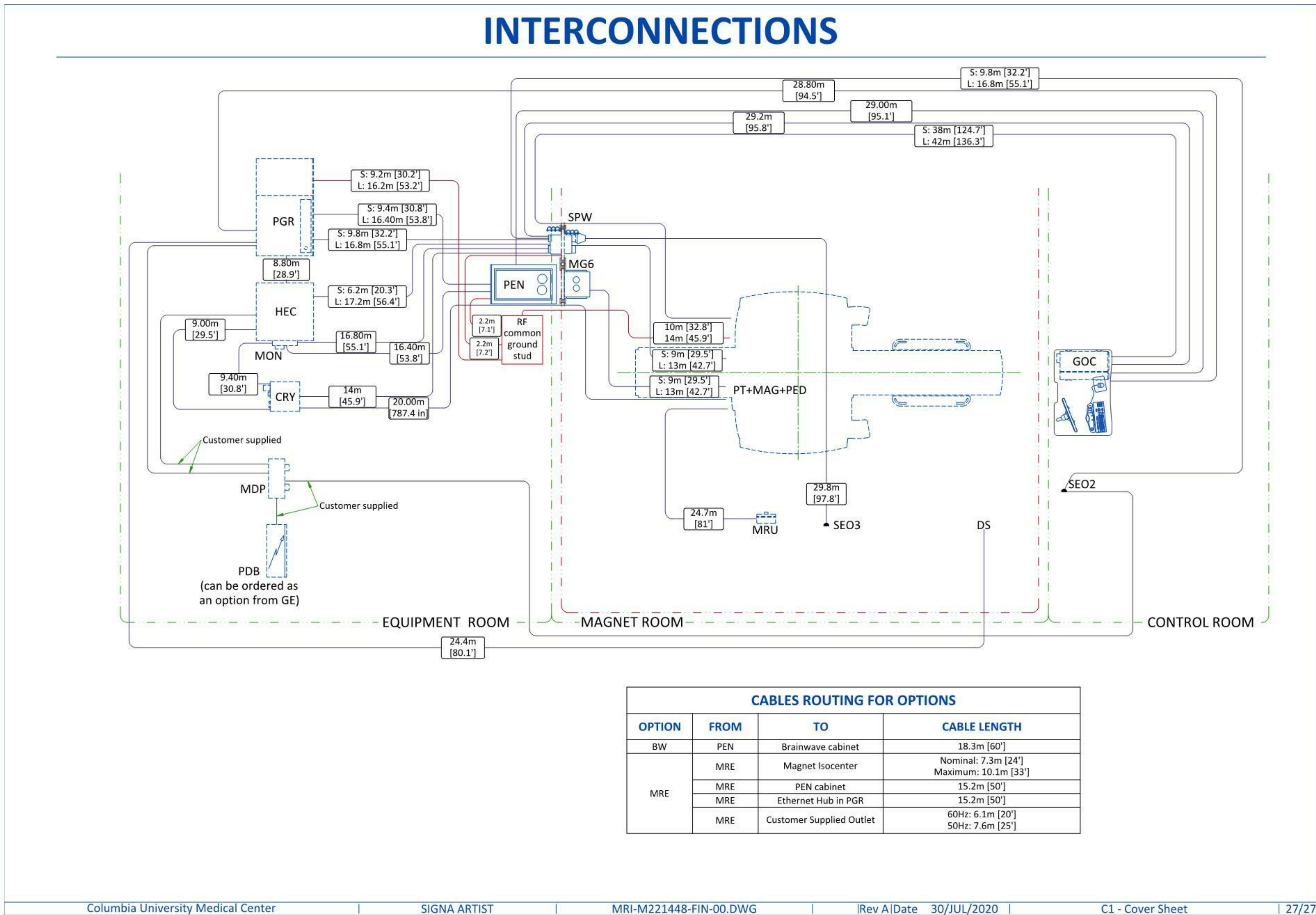
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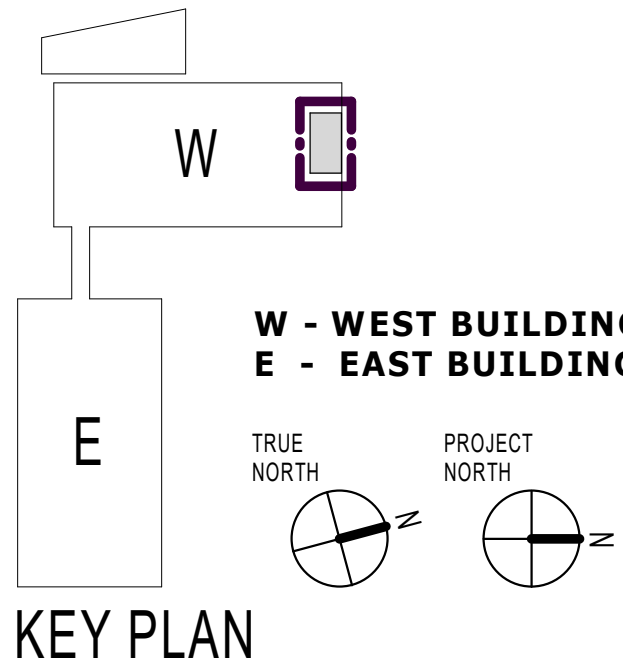
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GE MR-E6

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