UF LM-4985 : Proton Therapy - Linear Accelerator # 11037 11/15/2011 1:05 CODE RESEARCH FBC 2007 REQUIREMENTS FLORIDA FIRE PREVENTION CODE, NFPA 101 (2007) CATEGORY Calc. Reqmnts Source Description

88,811 Building Area per FFPC, NFPA 101: Total Source Description

Building Area per FBC: Total Enclosed 88,811 Enclosed Building Area: Ground Floor Enclosed Building Area: Ground Floor 48,247 48,247 Enclosed Building Area: Upper Floor 30,070 Enclosed Building Area: Upper Floor 10,494 Enclosed Building Area: Penthouse Floor Enclosed Building Area: Penthouse Floor 10,494 State Fire Marshal 303.1; 304.1; 309.1; 310.1; Mixed, Separated: Business (B); Assembly (A1 & 2) 508.1 Area Modification per: 506.2; 506.3 A1 = 31,000 SF/story Ground Floor (A2, B) 48,247 Area Modification per: A2 = 31,000 SF/story 506.2; 506.3 Upper Floor (B, A1, A2) 30,070 Area Modification per: B = 75,000 Penthouse Floor (B) 10,494 Height Modification per: 504.2 A1 & 2 = 4 stories, 85' B = 5 stories, 65' Table A8.2.1.2 Interior Bearing Walls Exterior Non-Bearing Walls Columns supporting more than one floor Columns supporting roof only Beams supporting more than one floor Beams supporting one floor only Beams supporting roof only Occupancy Separation Requirements A1 & 2 / B = 1 hour (S) A>1000/B = 1 hour (S) Table 6.1.14.4.1 Table 508.3.3 38.3.6.1 (3) A1 & 2 = 1 hour (S) Exit Access Corridors & Exit Corridors B = 0 hour (S) Table 1017.1 Vertical Openings at MEP shafts Vertical Openings at Stairs/ Elevators 707.14/ 707.4 8.6.5 (1) 8.6.1 (1) Floor to Floor Standpipe Fire Extinguishers FFPC 13.6.1.2 Max. Travel Distance for Fire Extinghuishers FFPC 13.6.1.2.1 907.2.2 (3) NFPA 10 Table 5.2.1 75ft. Fire Alarm Table 7.3.1.2 Ground Floor (Storage/Mechanical) Stor./Mech. Space = 300 GSF/Occupant Ground Floor (Business/Ambulatory Clinic) B = 100 GSF/Occupant 23,388 Ground Floor (Child Care) Child Care = 35 NSF/Occupant Ground Floor (A2) A2 (un-concentrated) = 15 NSF/Occupant GROUND FLOOR TOTAL OCC: Upper Floor (Storage/Mechanical) Stor./Mech. Space = 300 GSF/Occupant Upper Floor (Business/Ambulatory Clinic) B = 100 GSF/Occupant Upper Floor (Child Care) Child Care = 35 NSF/Occupant Upper Floor (A1) A1 (concentrated) = 7 NSF/Occupant A2 (un-concentrated) = 15 NSF/Occupant Upper Floor (A2) UPPER FLOOR TOTAL OCC: Penthouse Floor (Storage/Mechanical) Stor./Mech. Space = 300 GSF/Occupant PENTHOUSE FLOOR TOTAL OCC: | FLOOR TOTAL OCC: 39.2.4.1 & 7.4.1.2(2) Table 1019.1 Minimum Width of Exit Doors 1008.1.1 32in. Min. 7.2.1.2.4 Minimum Corridor Width 1017.2 7.3.4.1(2) Minimum Exit Width Ground Floor = .2" x 502 Table 1005.1 Minimum Stair Width Table 7.2.2.2.1(a) 1009.1 Table 1005.1 Upper Floor = .3" x 442 Travel Distance to Exit Assembly (Sprinklered) Table 1016.1 Maximum Dead End Corridor Assembly (Sprinklered) Table A.7.6 Pressurized Stair Tower 1020.1.7 Not Required Emergency Lights 1006.1.1 Stairs Required 1003.5 Landing Separation
Riser
Tread
Minimum Width
Hand Railing Spacing 1009.3 1012.8 1022.4 60in. Clear Max.
Not Applicable / Not Required Not Applicable / Not Required Provide area of Refuge Handrail diameter Handrail height 7.2.2.4.4.6(1) 11-4.26.2 1012.2 7.2.2.4.4.1 11-4.26.2 7.2.2.4.4.5 11-4.10 
 Men
 Women

 1/125 Occ.
 1/65 Occ.

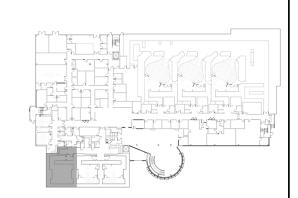
 4
 8
 Table 403.1 Table 403.1 1/500 Occ. Table 403.1 Unisex toilet rooms a. Accessible Route from Side Walks b. Number of Parking Spaces





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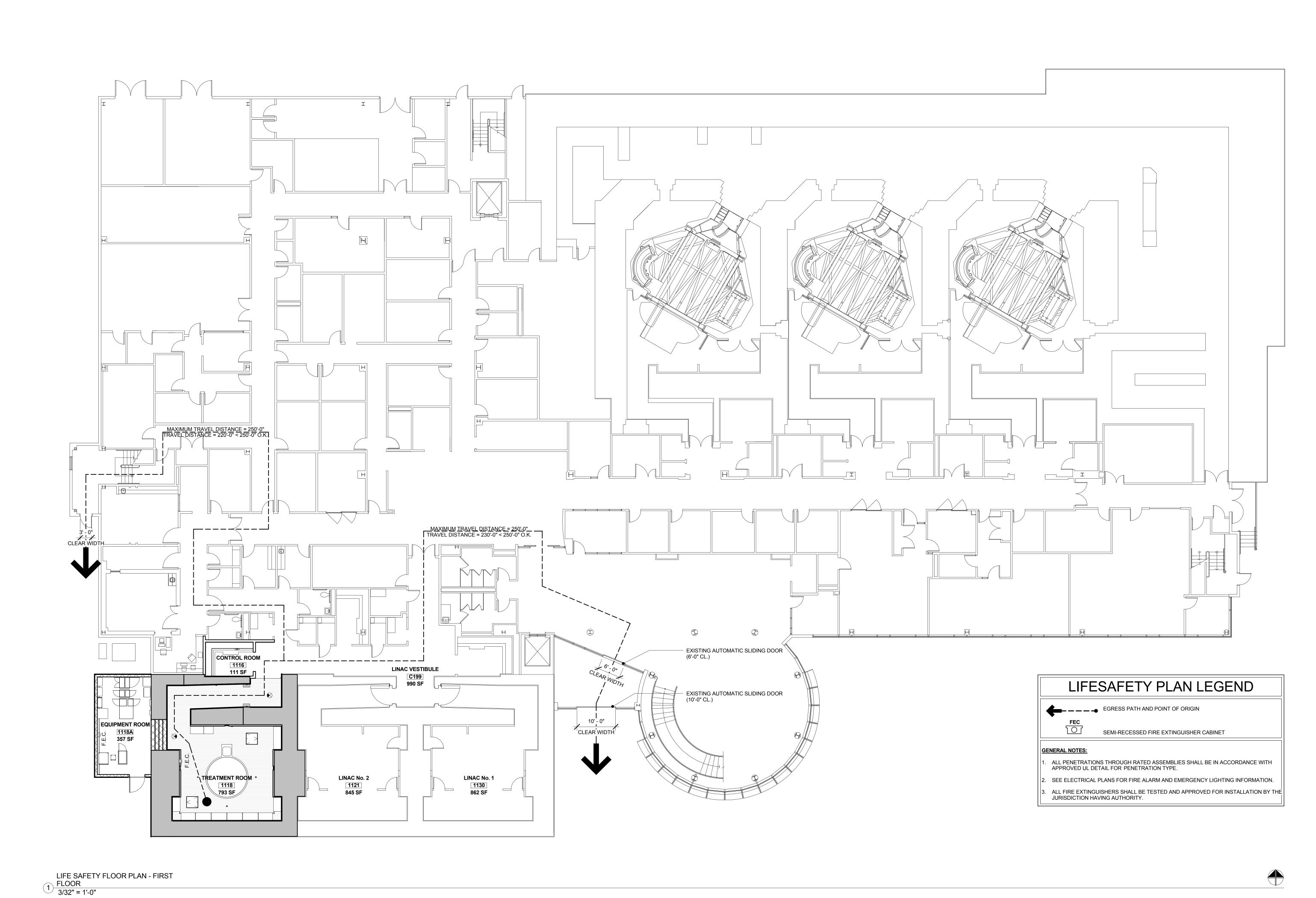
## Proton Therapy LINAC Addition Shands Jacksonville Campus

UF LM-4985
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LIFE SAFETY
SUMMARY

Scale	Drawn By
	KTW
Date	Checked By
12/09/2011	JBW
AEI Project No.	
11662-00	

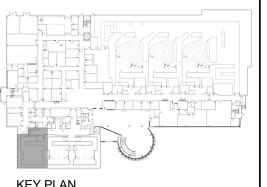
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LIFE SAFETY FLOOR PLAN -FIRST FLOOR

As indicated KTW

Date Checked By

 Date
 Checked By

 12/09/2011
 JBW

AEI Project No. **11662-00** 

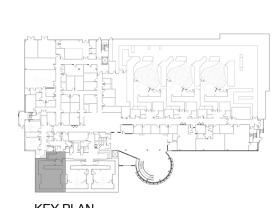
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DEMOLITION FLOOR PLAN

Scale Drawn By

As indicated KTW

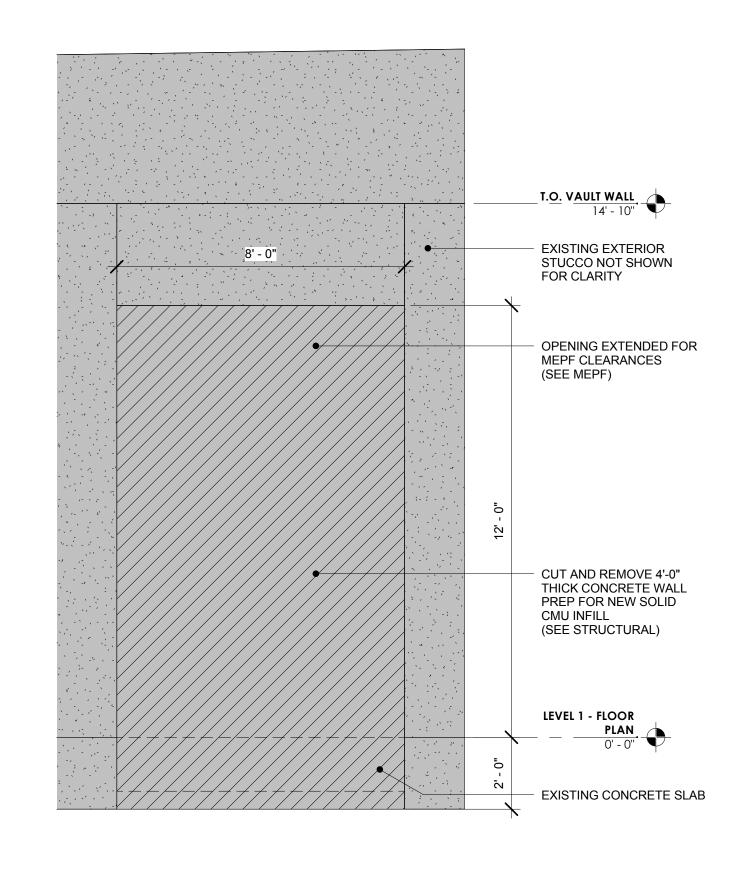
 Date
 Checked By

 12/09/2011
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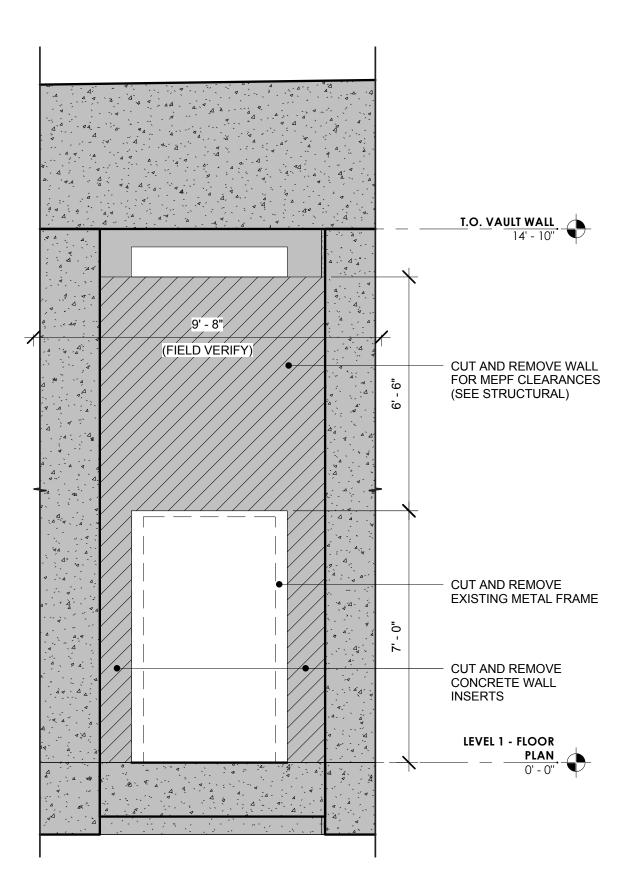
AEI Project No. **11662-00** 

Sheet No.

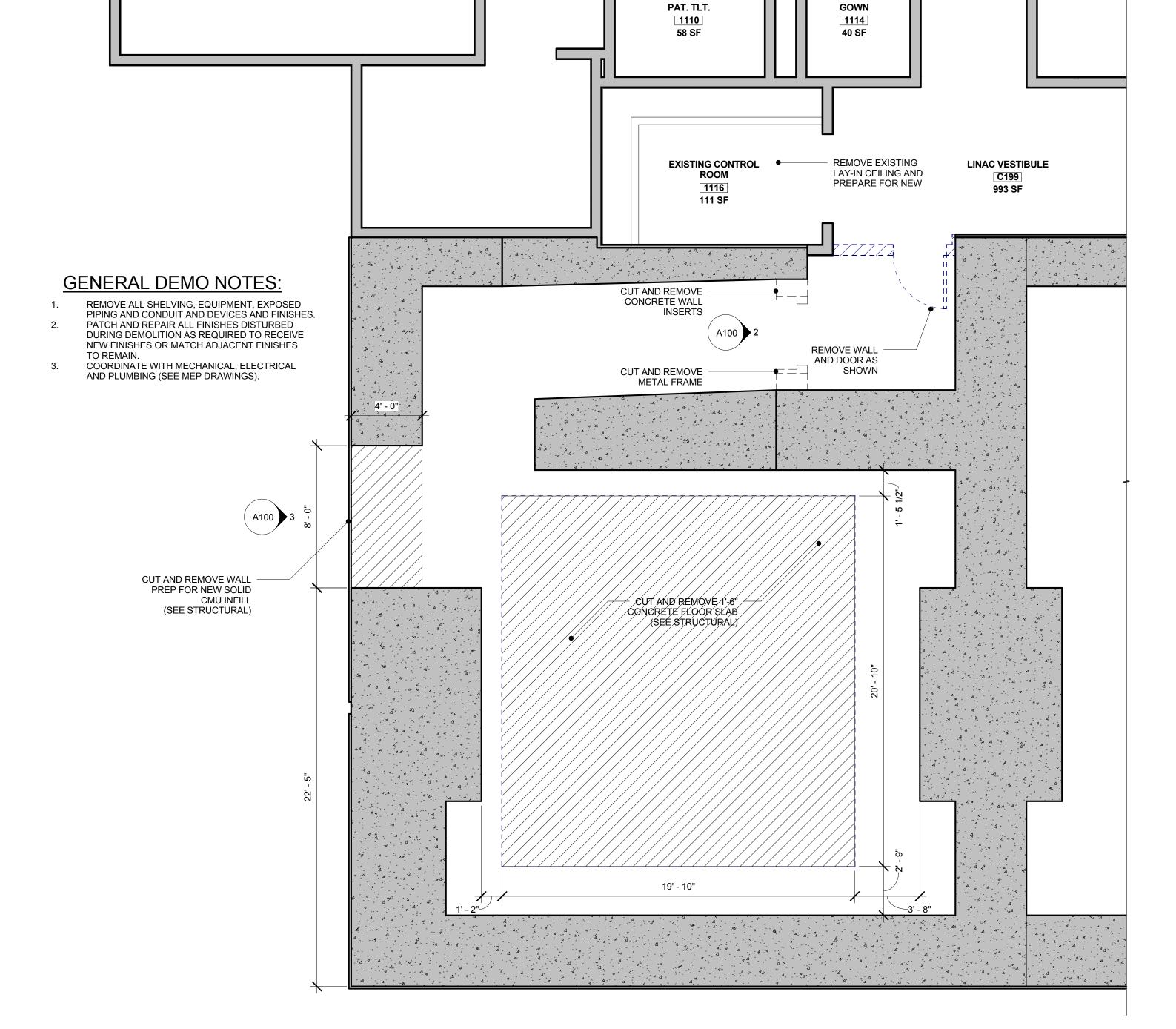
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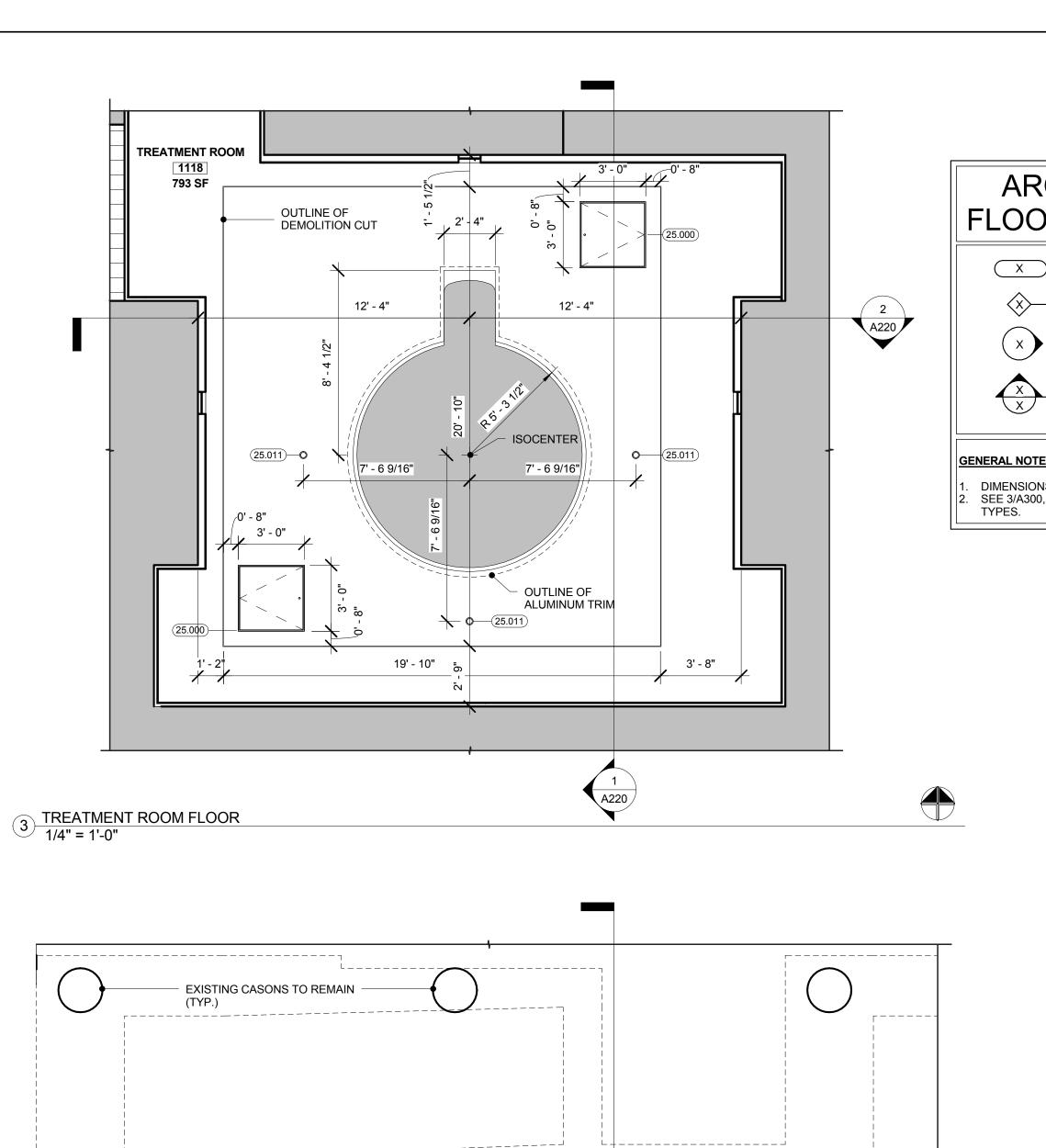
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3/8" = 1'-0"

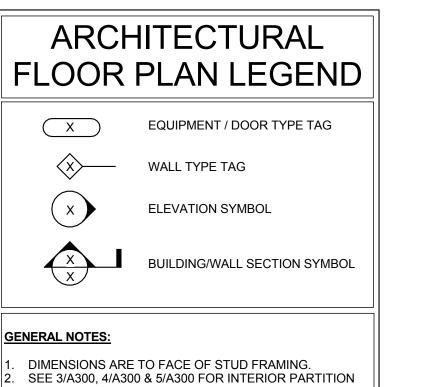


2 DEMOLITION ELEVATION (INTERIOR)
3/8" = 1'-0"



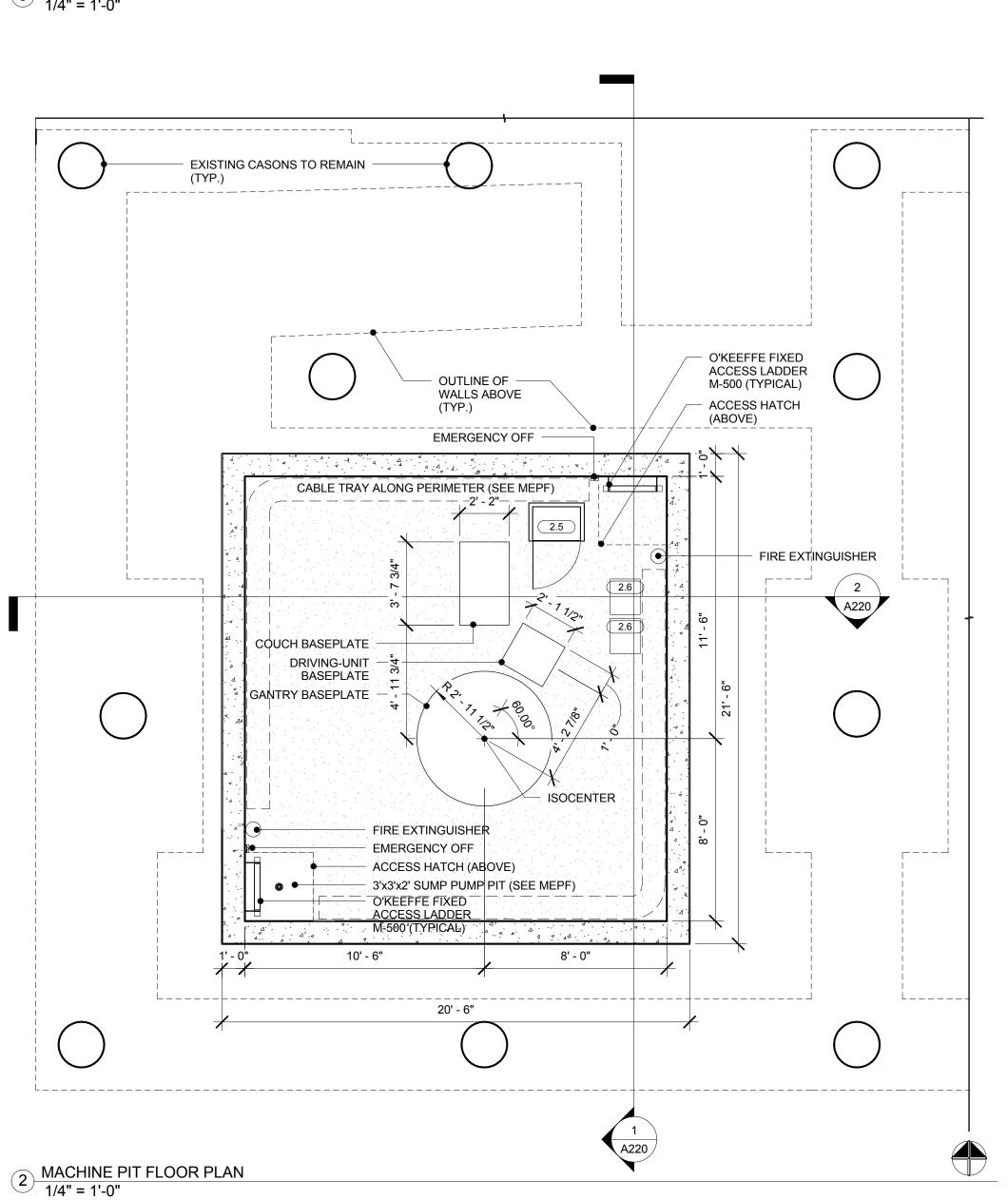
1 DEMOLITION FLOOR PLAN 1/4" = 1'-0"

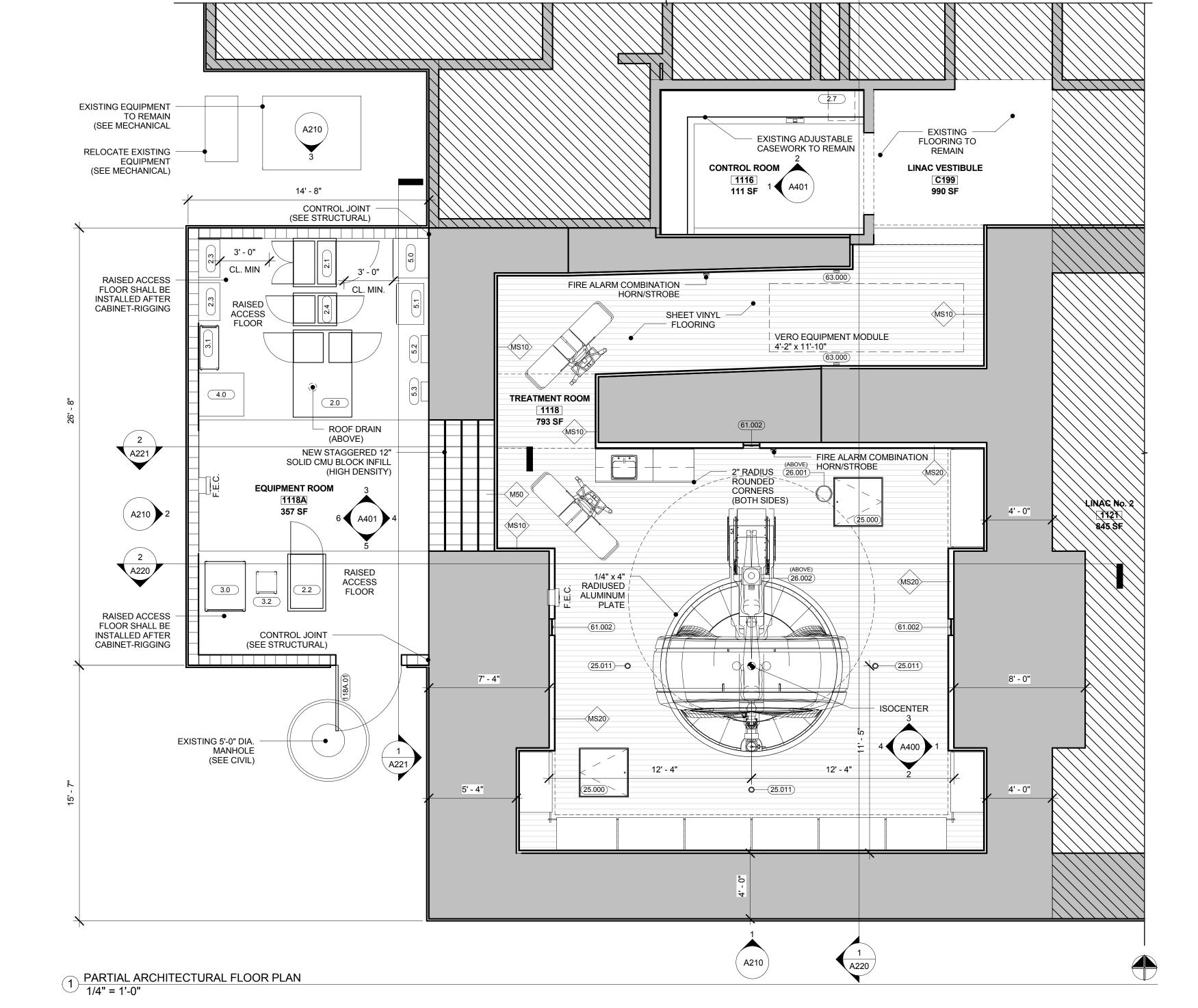




Type	Mark	Type Comments
1.0	VERO	
2.0	Pulse Modulator Panel	
2.1	System Control Panel	Equipped w/ Support Frame
2.2	Imager Control Panel	Equipped w/ Support Frame
2.3	Image Power Supply Panel	Equipped w/ Support Frame
2.3	Image Power Supply Panel	Equipped w/ Support Frame
2.4	Exatrac Computer Cabinet	Equipped w/ Support Frame
2.5	Couch Control Panel	
2.6	Image Starter Panel	
2.6	Image Starter Panel	
2.7	Operator Console Panel	
3.0	Heat Exchanger Unit	Equipped w/ Support Frame
3.1	SF6 Gas Supply Liquid Cooling Cabinet	Equipped w/ Support Frame
3.2		Equipped w/ Support Frame
4.0	Vero Transformer Panel	
5.0	Pre-Action Sprinkler Cabinet	See Mechanical
5.1	Transformer Box - XPLR3	See Mechanical

	EQUIPMENT SCHEDULE (H)	
Туре	Mark	Type Comments
5.2	Transformer - PLR3	See Mechanical
5.3	XFMR Disconnect	
25.000	Bilco Floor Access Hatch (3'-0" x 3'-0")	Type T-4
25.000	Bilco Floor Access Hatch (3'-0" x 3'-0")	Type T-4
25.011	Floor Box (4" Dia.)	
25.011	Floor Box (4" Dia.)	
25.011	Floor Box (4" Dia.)	
26.001	LCD Extractor Arm Ceiling Mounted Monitor Arm	Max. 13' 9" Install Height
26.002	IR Camera	
61.001	Ceiling Rail Laser Panel	Ceiling Mounted
61.002	Cross Laser Panel	
61.002	Cross Laser Panel	
61.002	Cross Laser Panel	
63.000	Eye Beam Sensor	
63.000	Eye Beam Sensor	
67.000	CCTV Camera	Ceiling Mounted
67.000	CCTV Camera	Ceiling Mounted
118A.01	(1) 4'-0" x 8'-0" Fiberglass Door and HM Frame	See 1/A3.00 & 2/A3.00

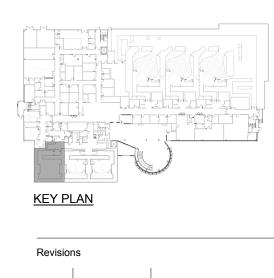






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100% CONSTRUCTION DOCUMENTS

ARCHITECTURAL FLOOR PLAN

Scale Drawn By

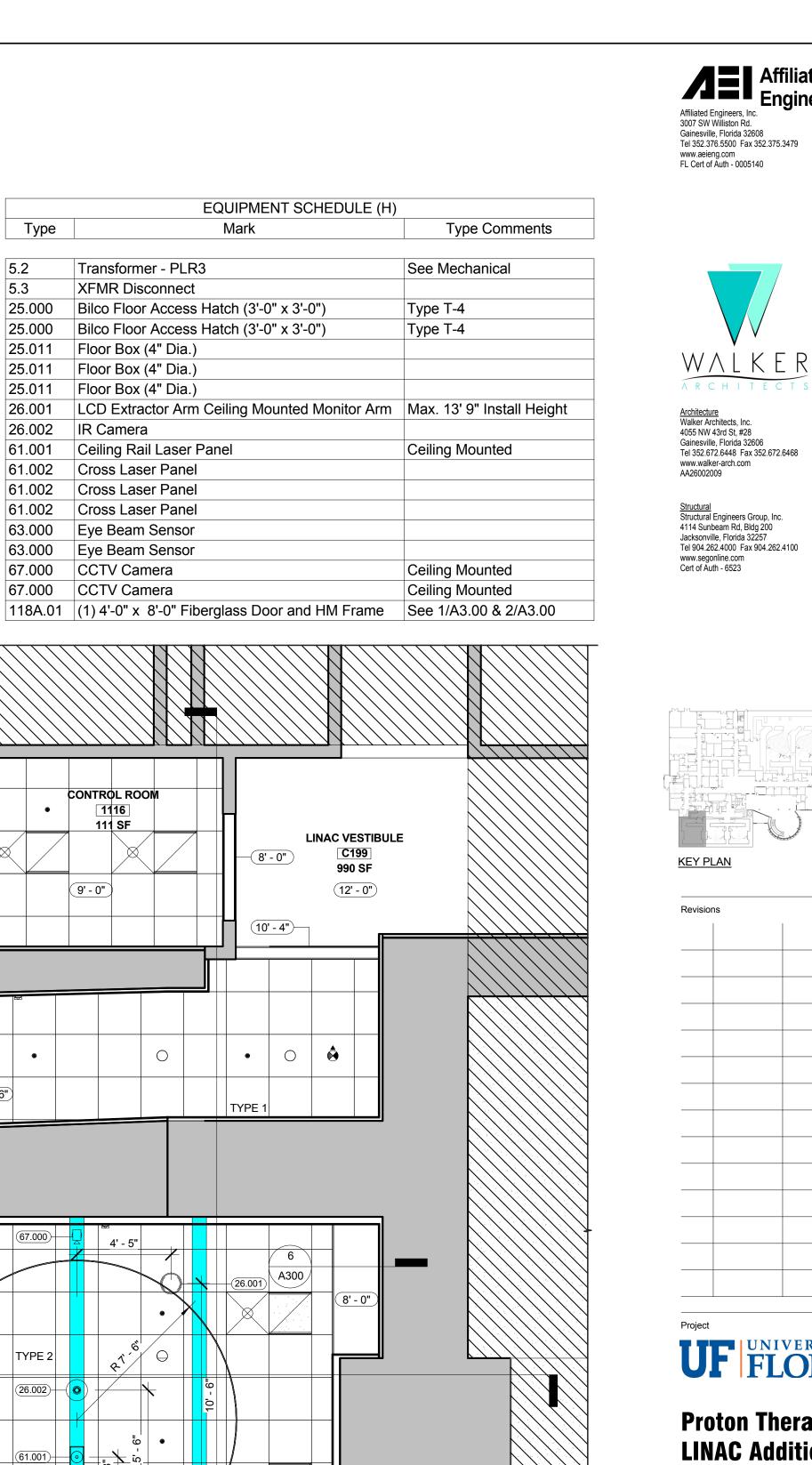
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12/09/2011 JBW

AEI Project No. **11662-00** 

11662-00



EQUIPMENT SCHEDULE (H)

Type

Transformer - PLR3

XFMR Disconnect



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#### REFLECTED **CEILING PLAN & ROOF PLAN**

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Date	Checked By
12/09/2011	JBW

AEI Project No. 11662-00

**A120** 

REFLECTED CEILING PLAN LEGEND X CEILING ELEVATION TARGET SUSPENDED CEILING TILE IN METAL T-GRID PAINTED GYPSUM BOARD CEILING EXPOSED METAL DECK 2X2 LAY-IN FLUORESCENT LIGHT FIXTURE RECESSED CAN LIGHT FIXTURE 4' INDUSTRIAL FLUORESCENT **GENERAL NOTES:** 

SEE MECHANICAL DRAWINGS FOR SUPPLY AND

ALIGN SOFFITS WITH FACE OF FINISHED WALLS

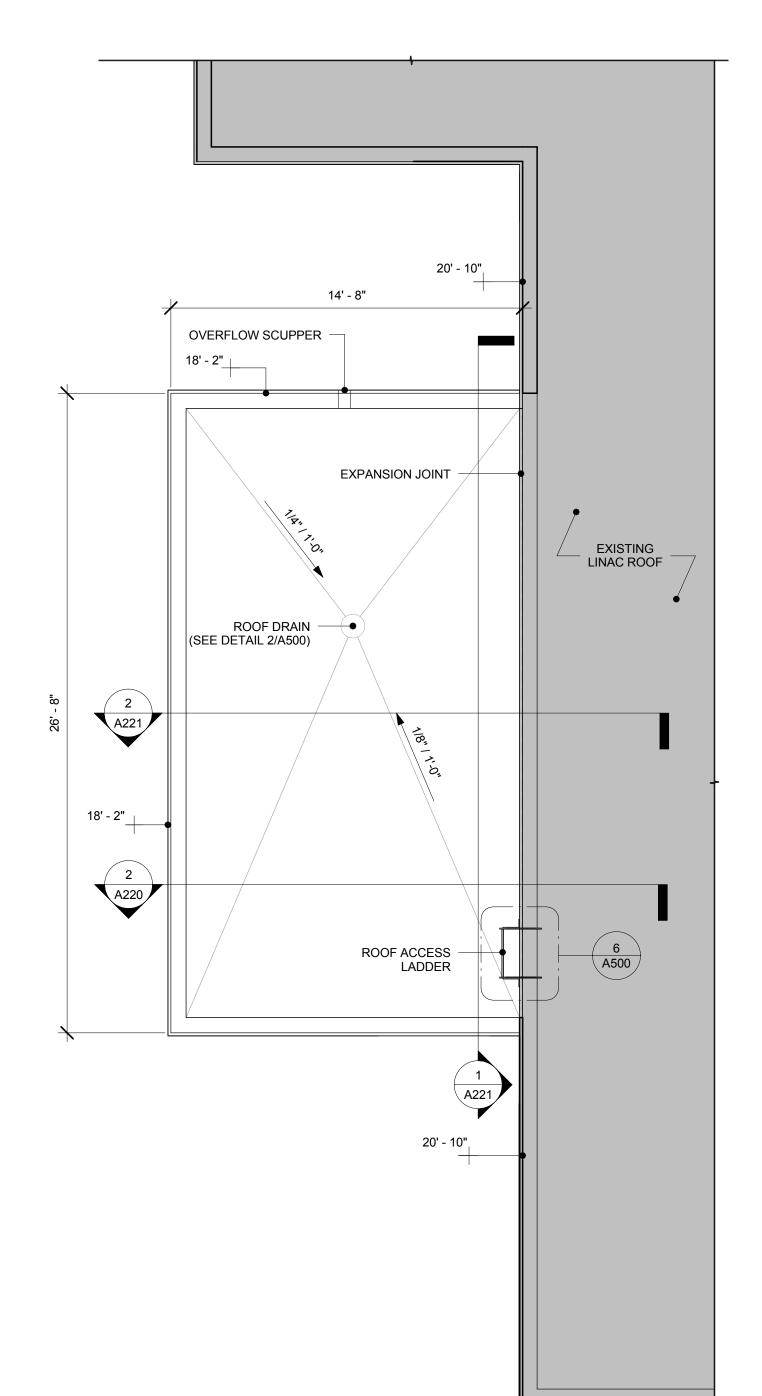
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INFORMATION.

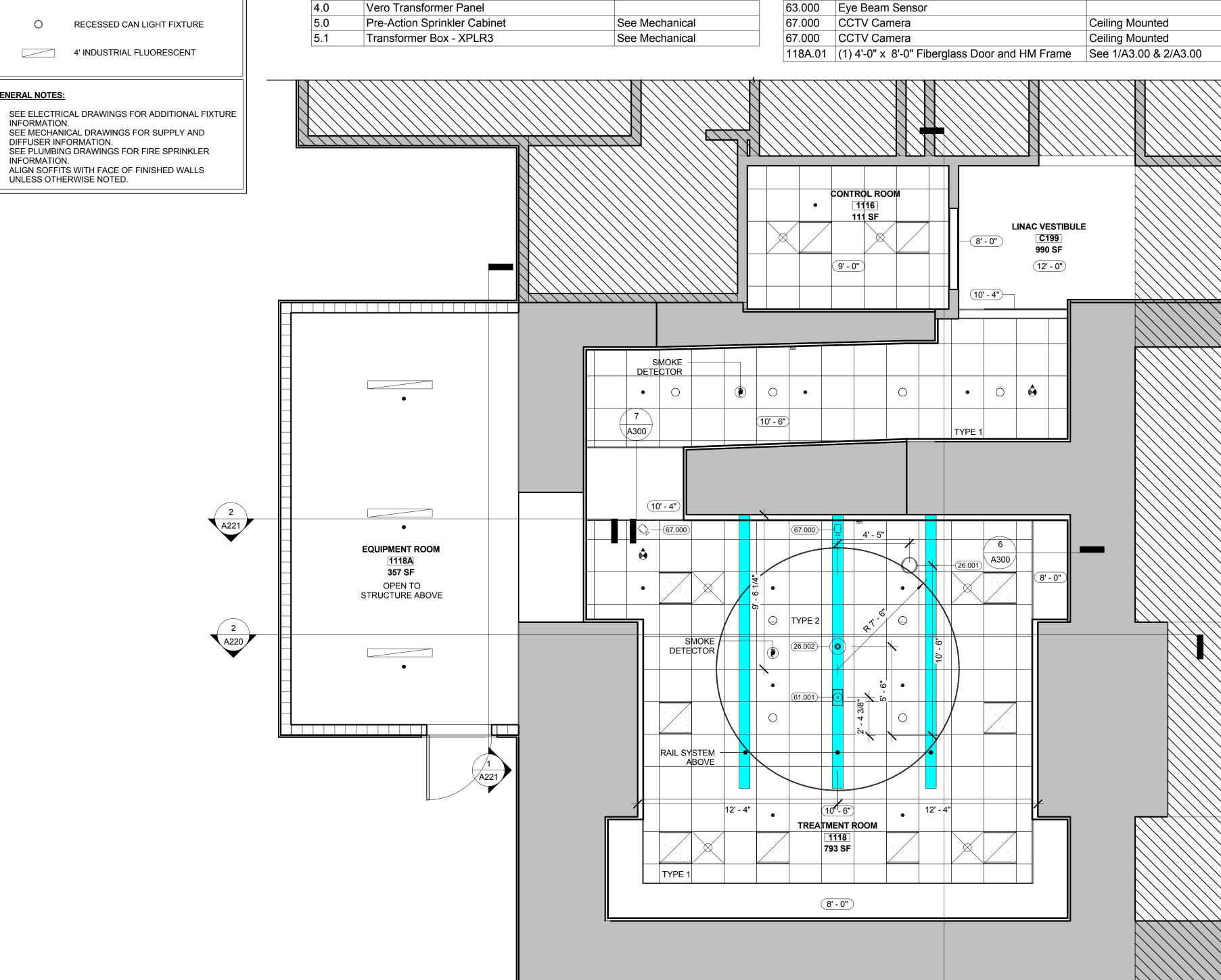
UNLESS OTHERWISE NOTED.

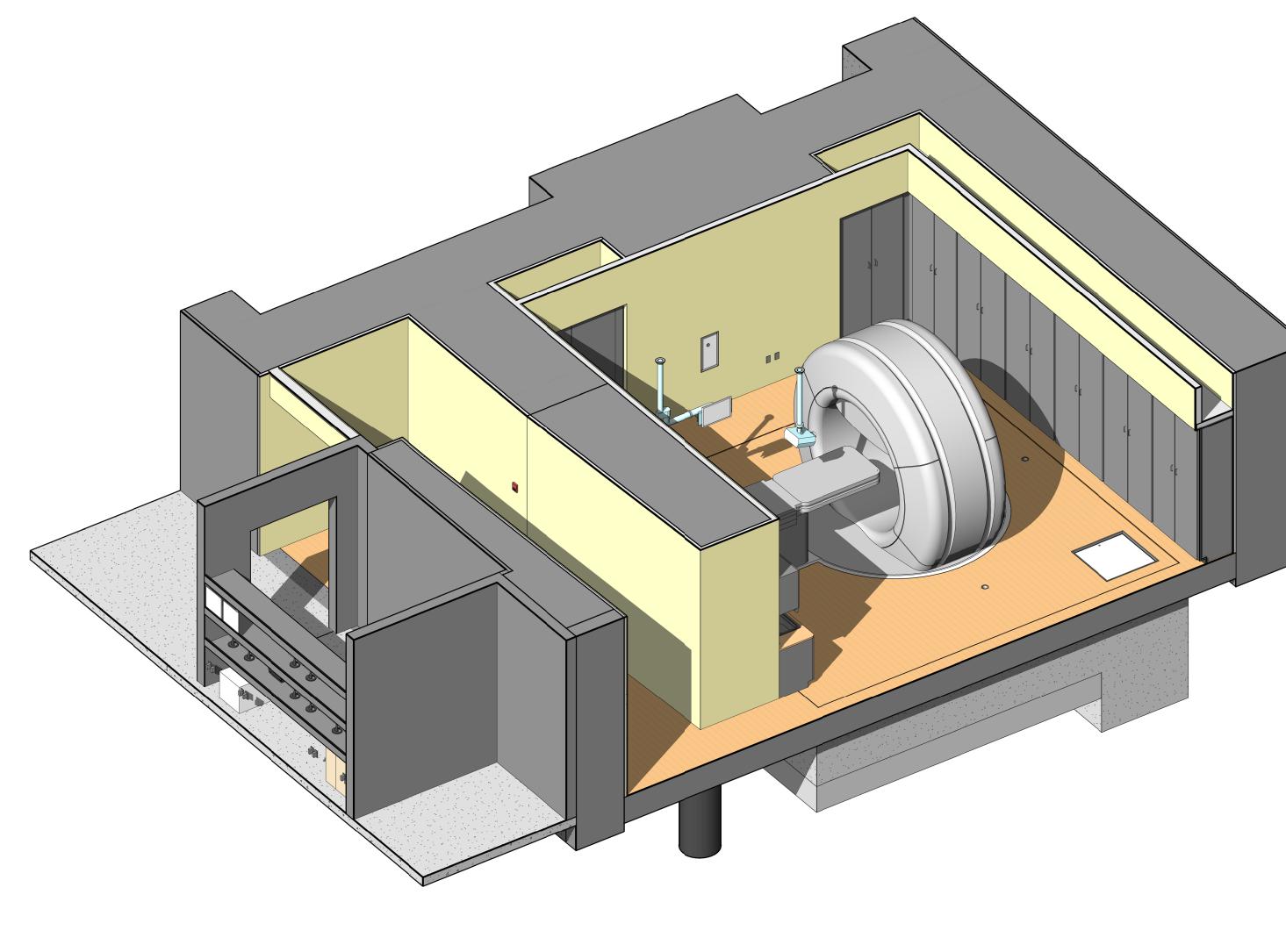
EQUIPMENT SCHEDULE (H) Type Type Comments 1.0 VERO Pulse Modulator Panel System Control Panel Equipped w/ Support Frame 25.000 Bilco Floor Access Hatch (3'-0" x 3'-0") Imager Control Panel 25.000 Bilco Floor Access Hatch (3'-0" x 3'-0") Equipped w/ Support Frame Image Power Supply Panel 25.011 Floor Box (4" Dia.) Equipped w/ Support Frame 25.011 Floor Box (4" Dia.) Image Power Supply Panel Equipped w/ Support Frame Exatrac Computer Cabinet Equipped w/ Support Frame 25.011 Floor Box (4" Dia.) Couch Control Panel Image Starter Panel 26.002 IR Camera 61.001 Ceiling Rail Laser Panel Image Starter Panel Operator Console Panel 61.002 Cross Laser Panel Heat Exchanger Unit 61.002 Cross Laser Panel Equipped w/ Support Frame SF6 Gas Supply Liquid Cooling Cabinet Equipped w/ Support Frame 61.002 Cross Laser Panel 3.2 63.000 Eye Beam Sensor Equipped w/ Support Frame Vero Transformer Panel See Mechanical Pre-Action Sprinkler Cabinet Transformer Box - XPLR3 See Mechanical

1 REFLECTED CEILING PLAN
1/4" = 1'-0"



2 PARTIAL ROOF PLAN 1/4" = 1'-0"





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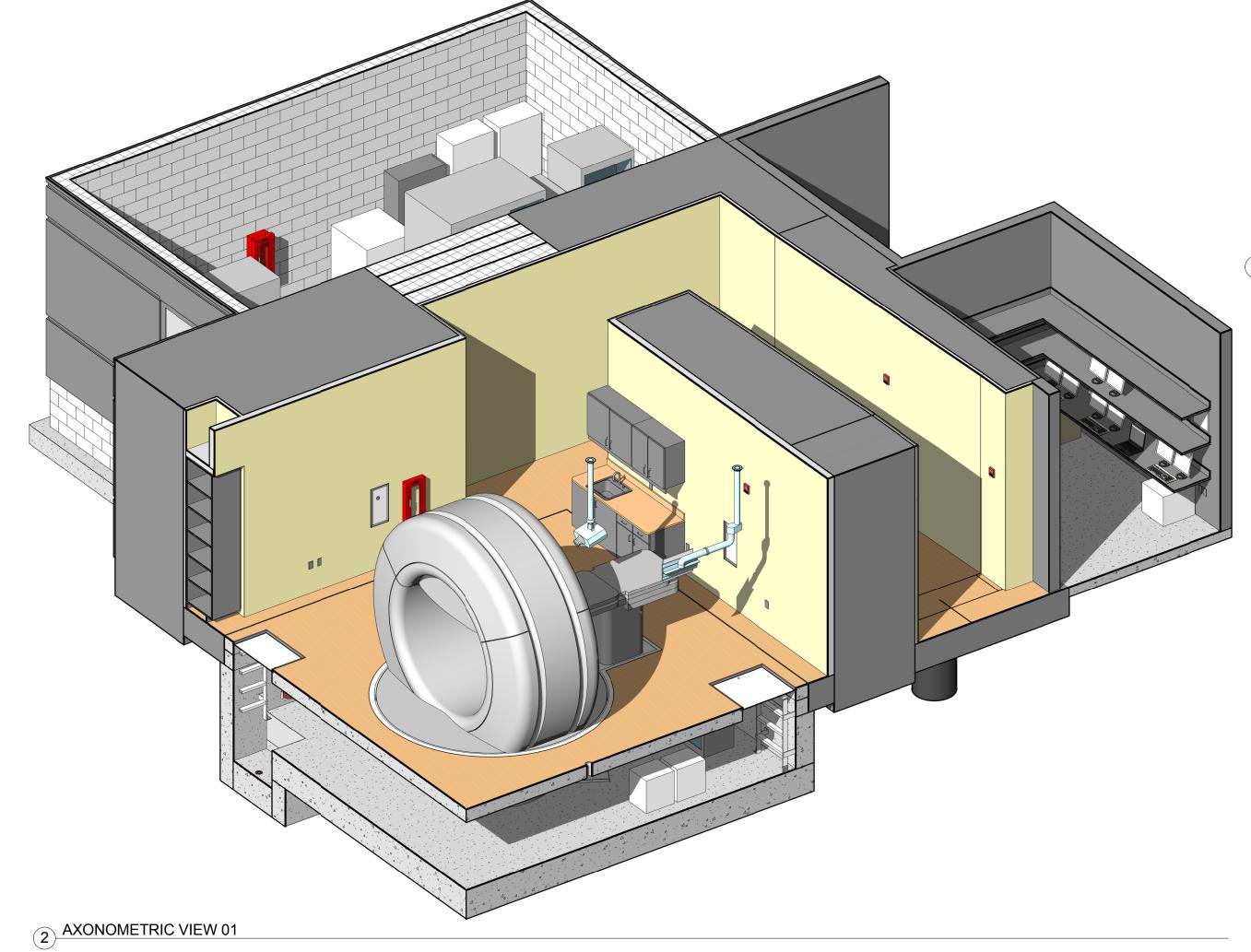
AXONOMETRIC VIEWS

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12/09/2011	JBW

AEI Project No.

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**A200** 

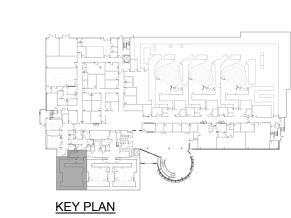


1 AXONOMETRIC VIEW 02



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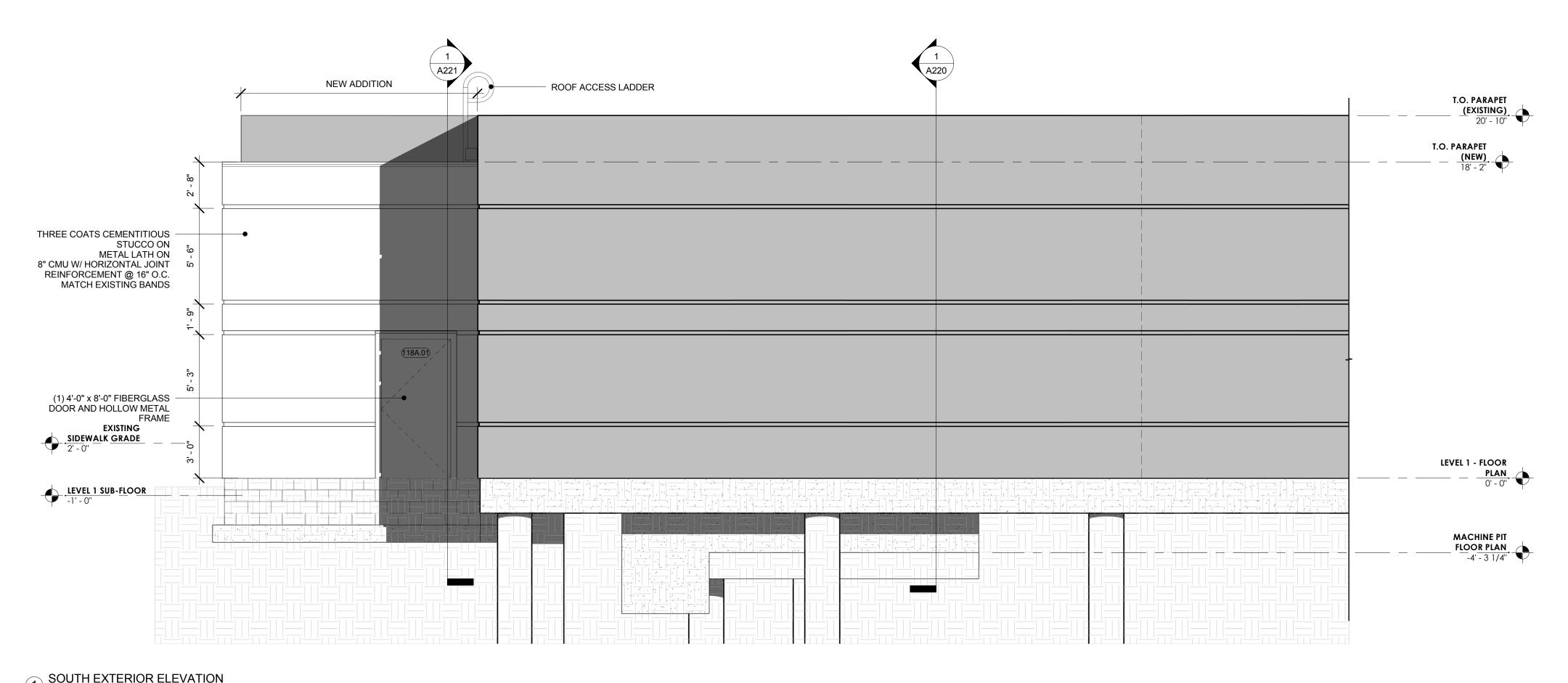
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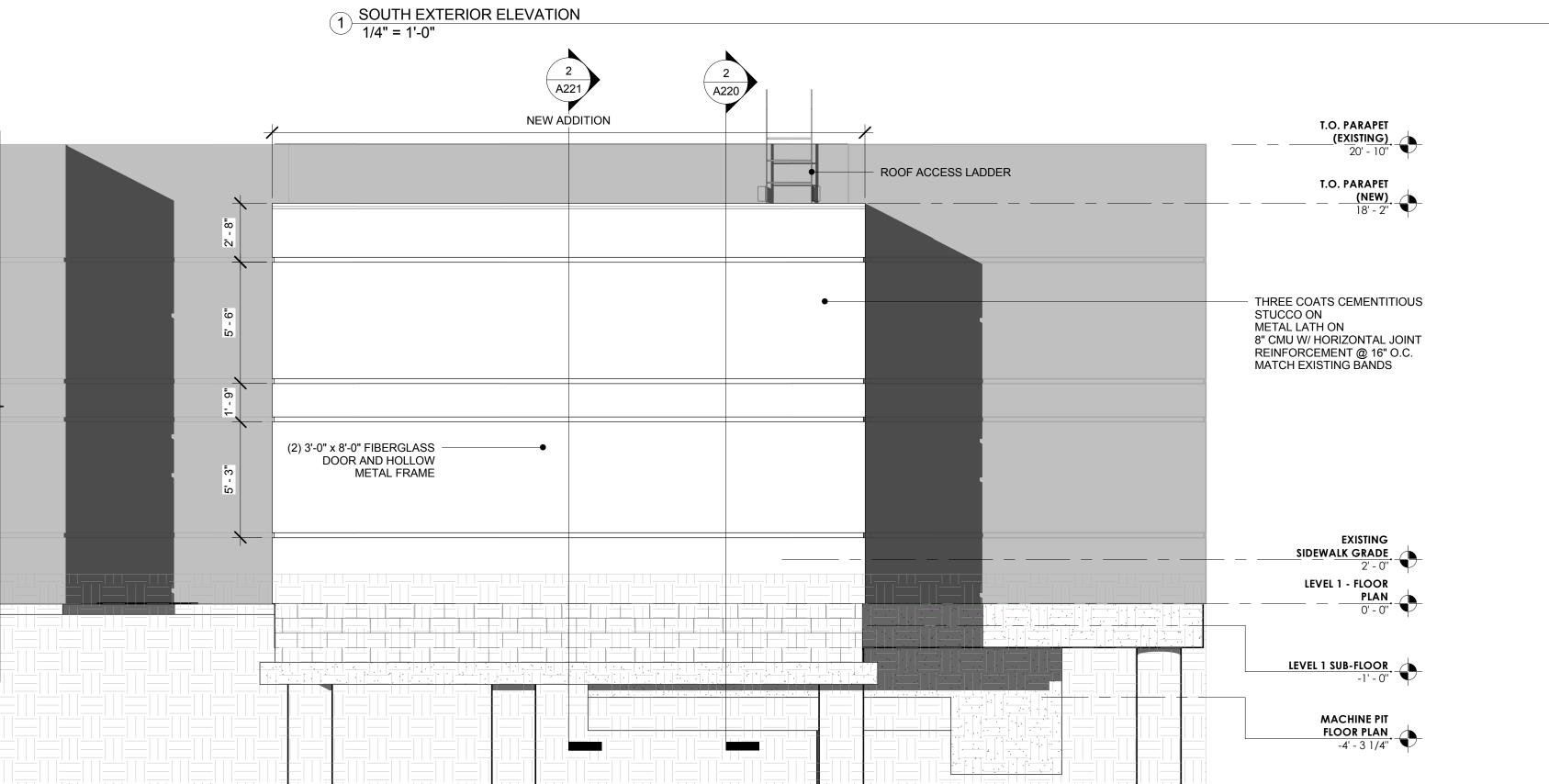
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Date	Checked By

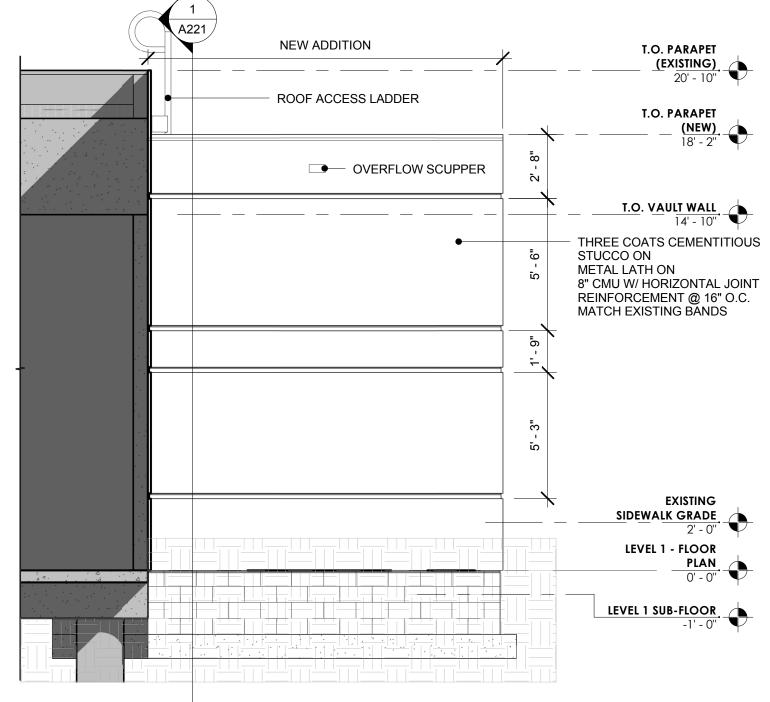
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AEI Project No. 11662-00

**A210** 

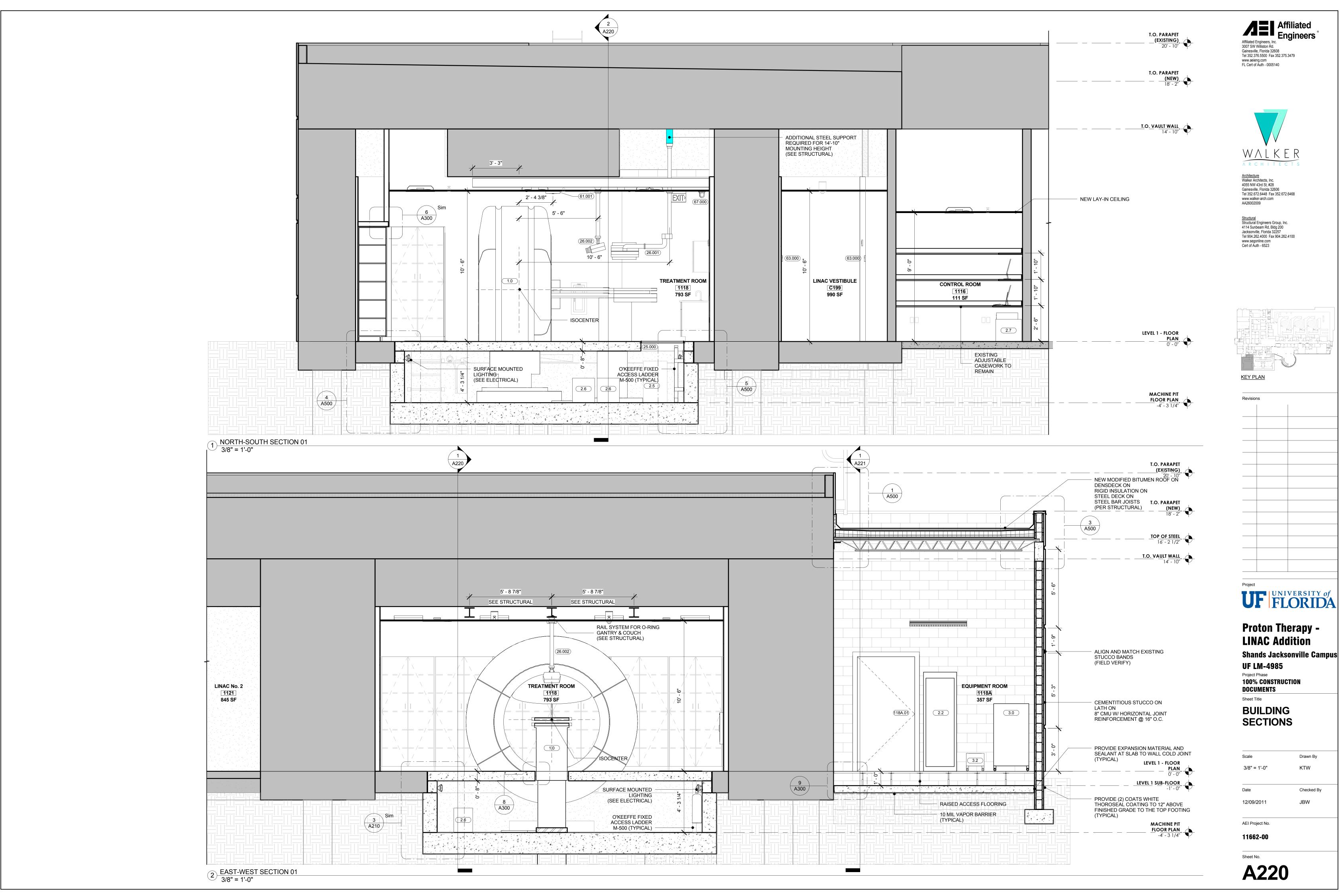


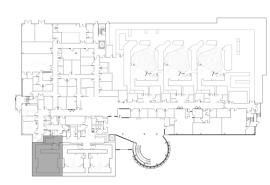


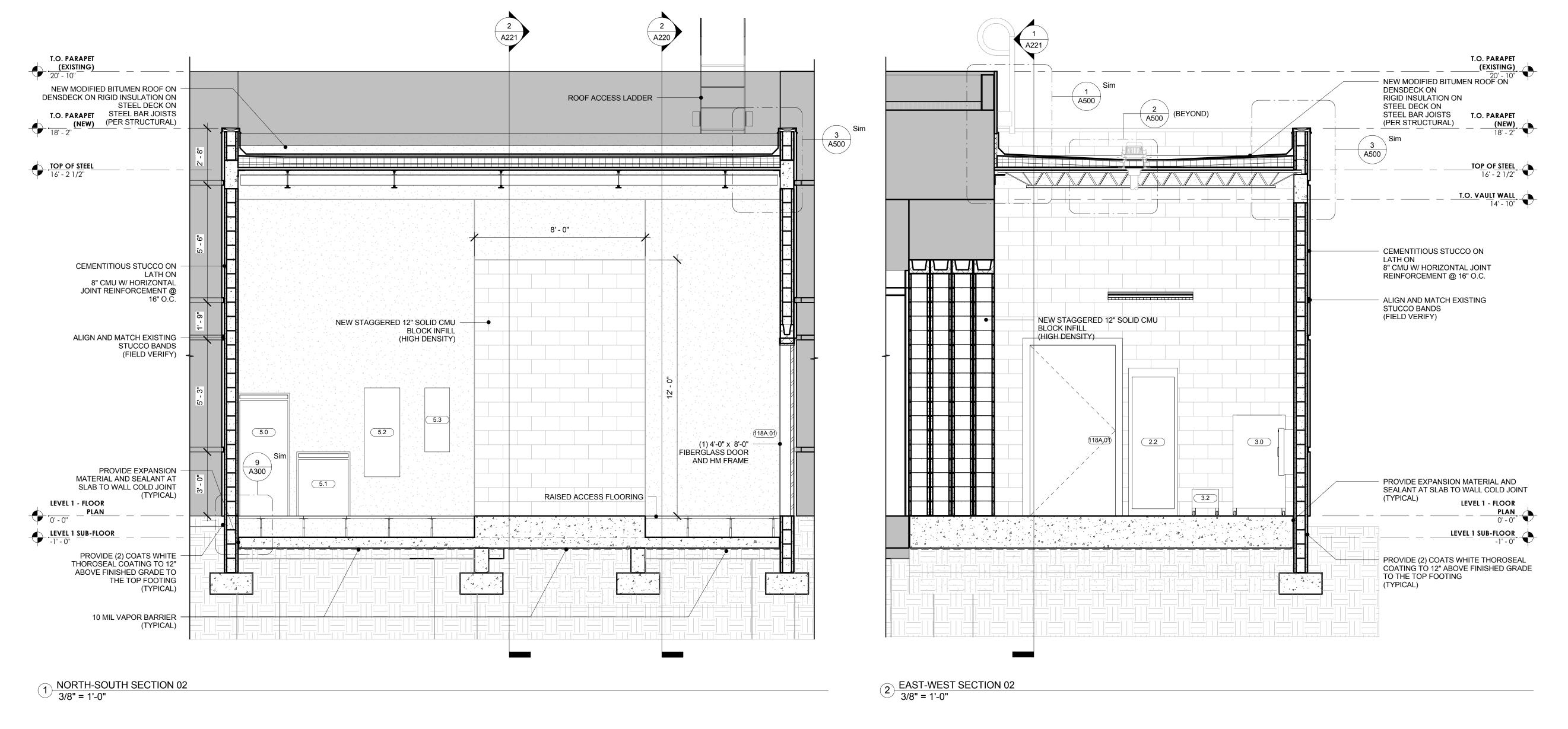


NORTH EXTERIOR ELEVATION
1/4" = 1'-0"

2 WEST EXTERIOR ELEVATION
1/4" = 1'-0"



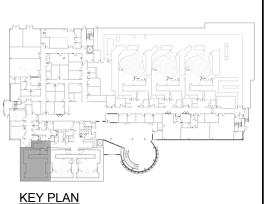






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Sheet Title

### BUILDING SECTIONS

 Scale
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 3/8" = 1'-0"
 KTW

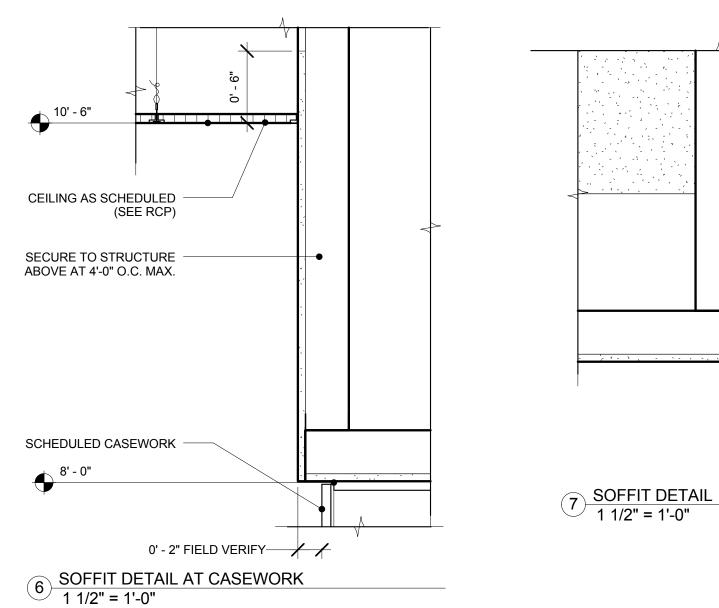
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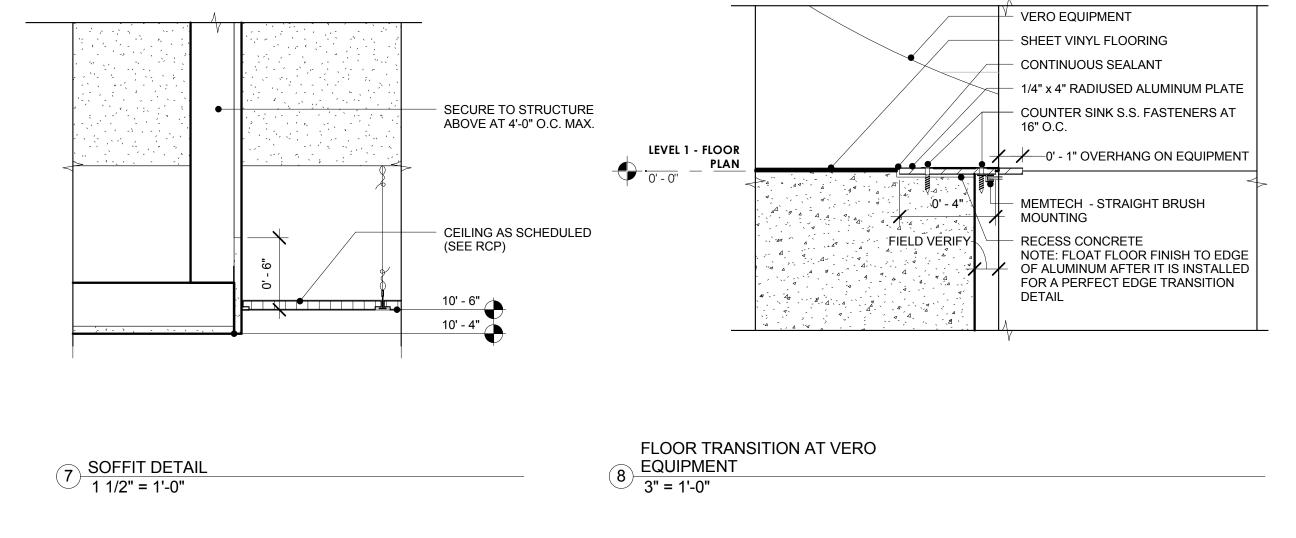
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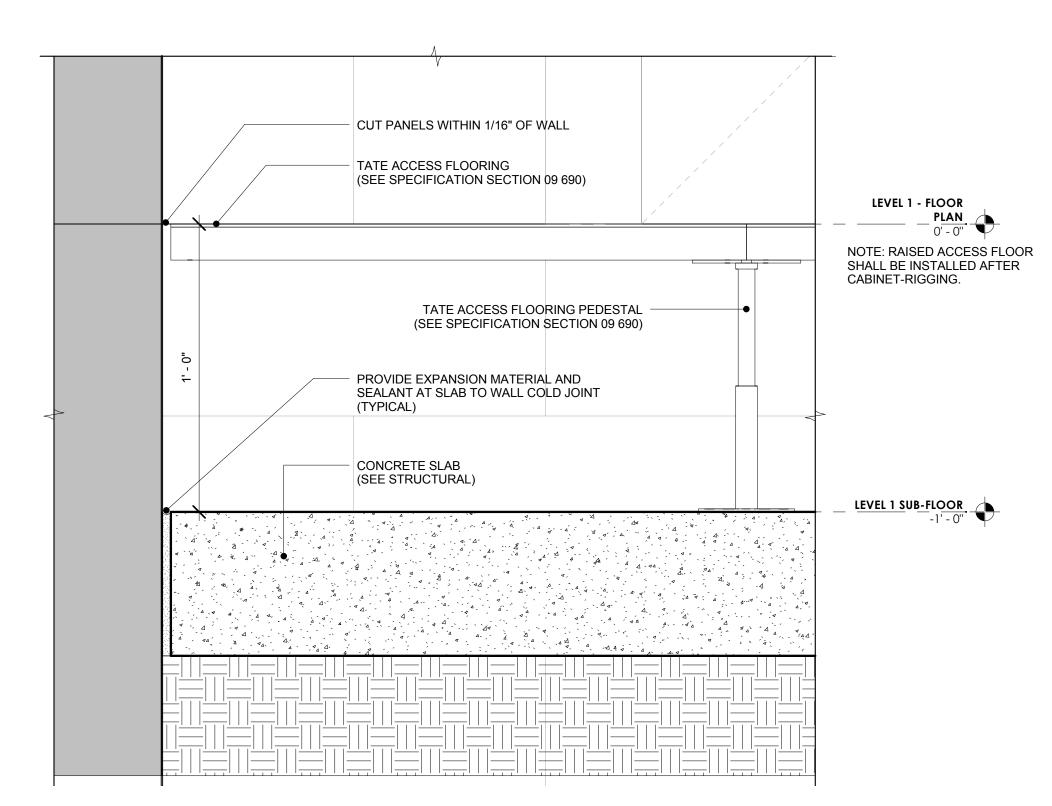
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9 ACCESS FLOOR DETAIL
3" = 1'-0"

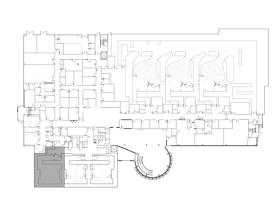
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**INTERIOR DETAILS** 

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AEI Project No. **11662-00** 

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12/7/2011 6:41:32 PM H:\WA\11037-LINAC\Drawings\Revit\\_(



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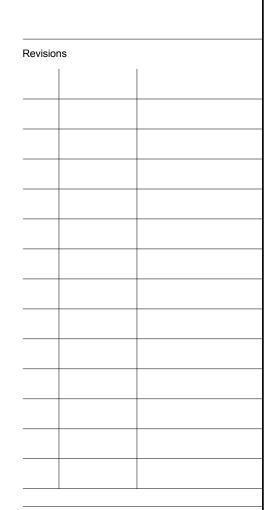
2' - 0"

NOTE: PLASTIC LAMINATE AT ALL EXPOSED

SURFACES. BALANCING SHEET AT ALL SEMI-EXPOSED SURFACES.

1' - 10"

1' - 9"



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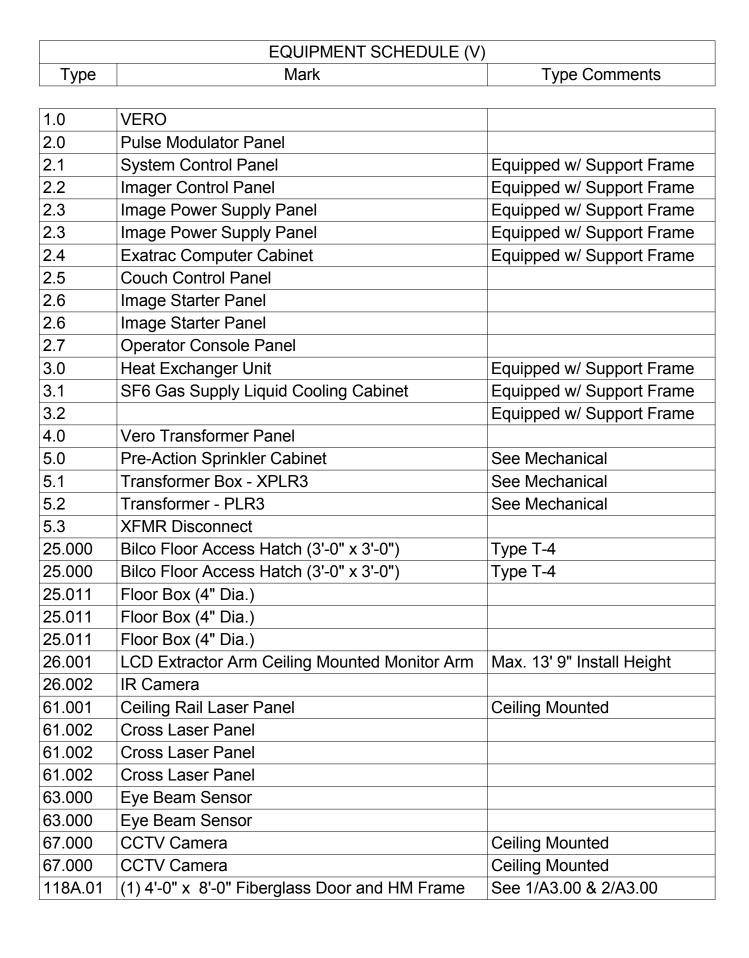
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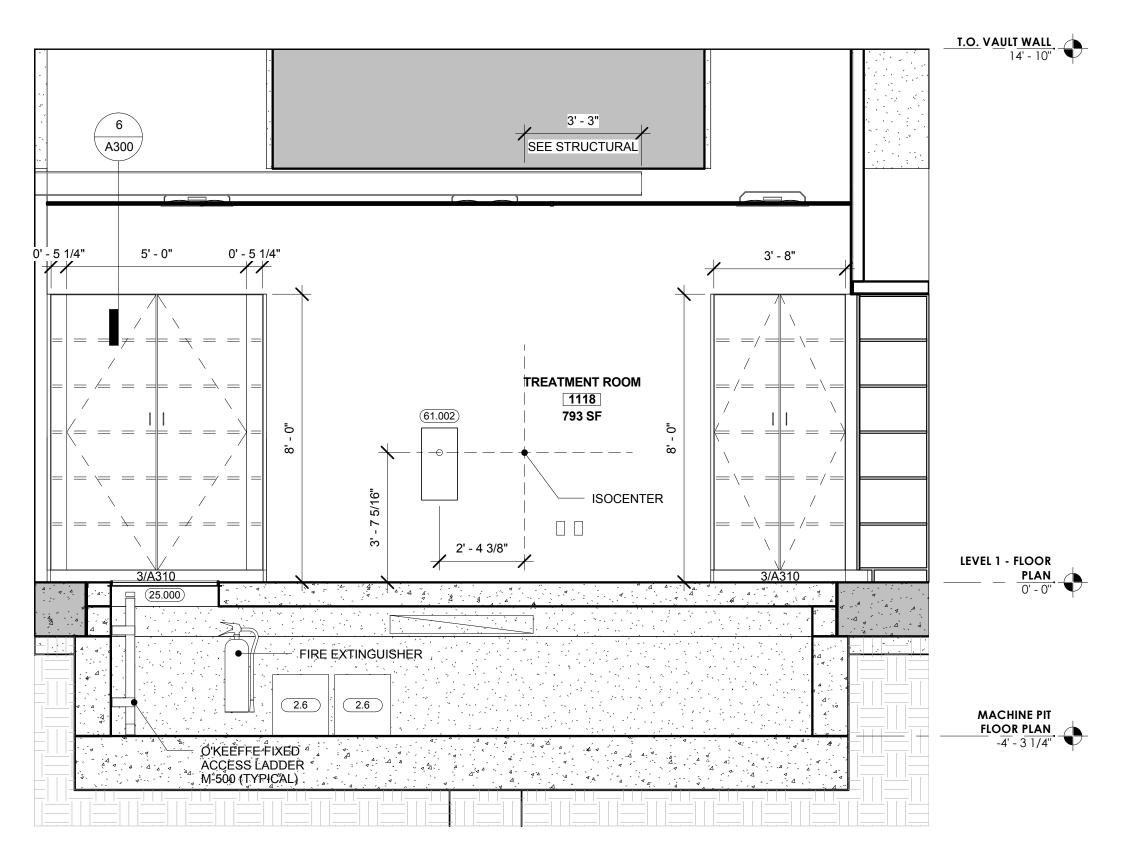
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1 1/2" = 1'-0"	KTW
Date	Checked By
12/09/2011	JBW

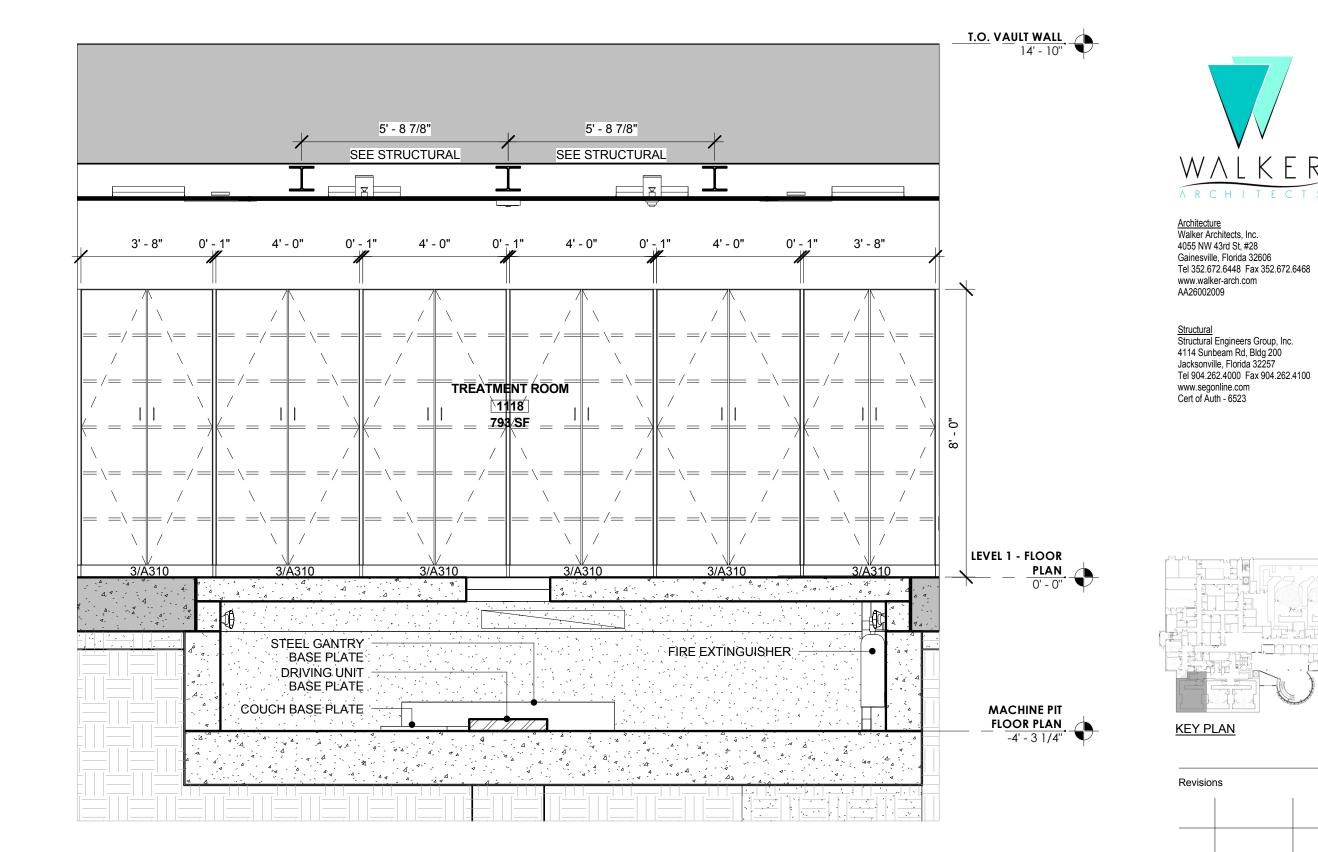
AEI Project No. **11662-00** 

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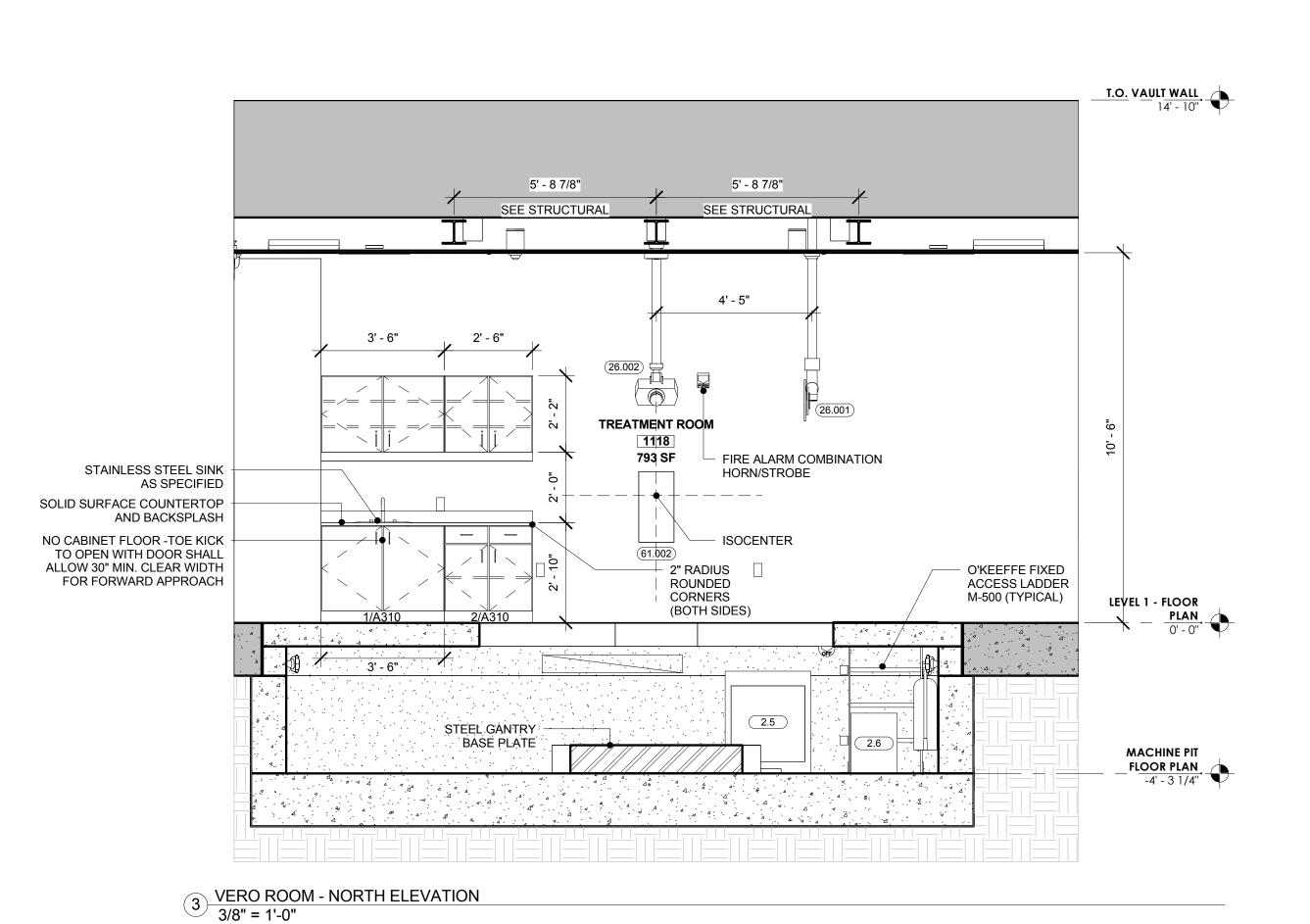


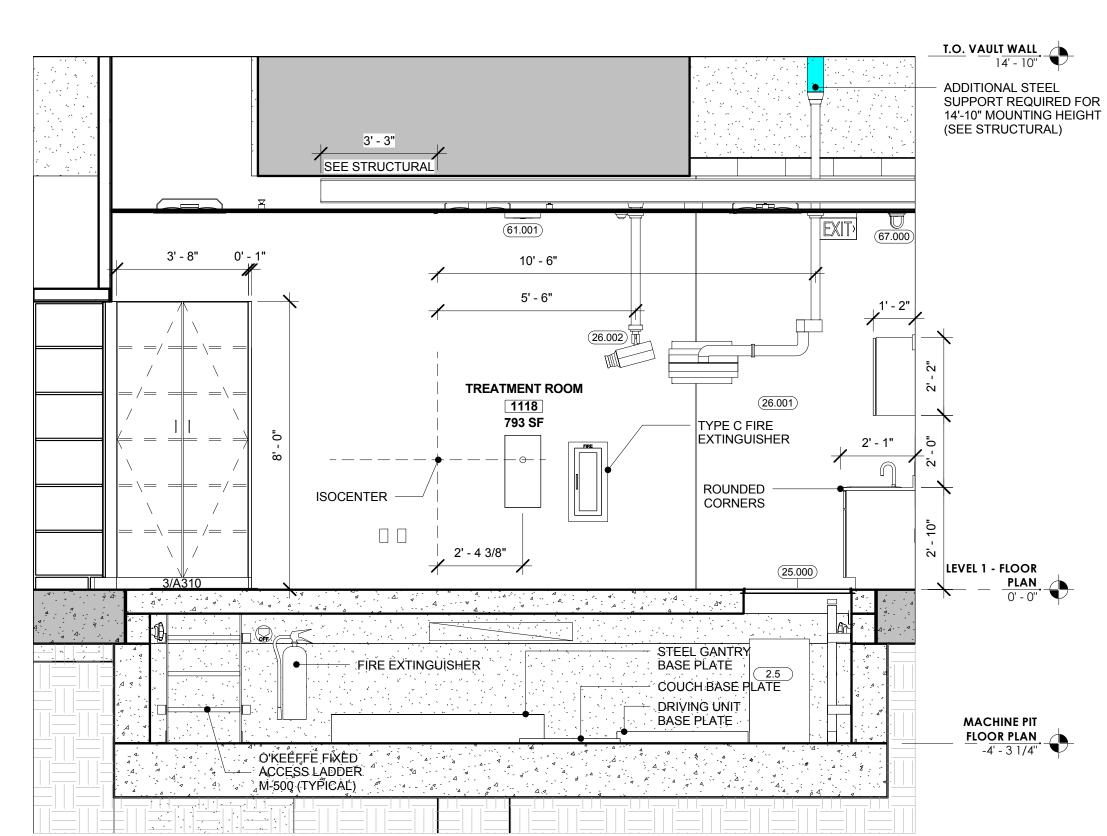






VERO ROOM - EAST ELEVATION
3/8" = 1'-0"





VERO ROOM - WEST ELEVATION
3/8" = 1'-0"

2 VERO ROOM - SOUTH ELEVATION 3/8" = 1'-0"

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Sheet Title

INTERIOR ELEVATIONS

 Scale
 Drawn By

 3/8" = 1'-0"
 KTW

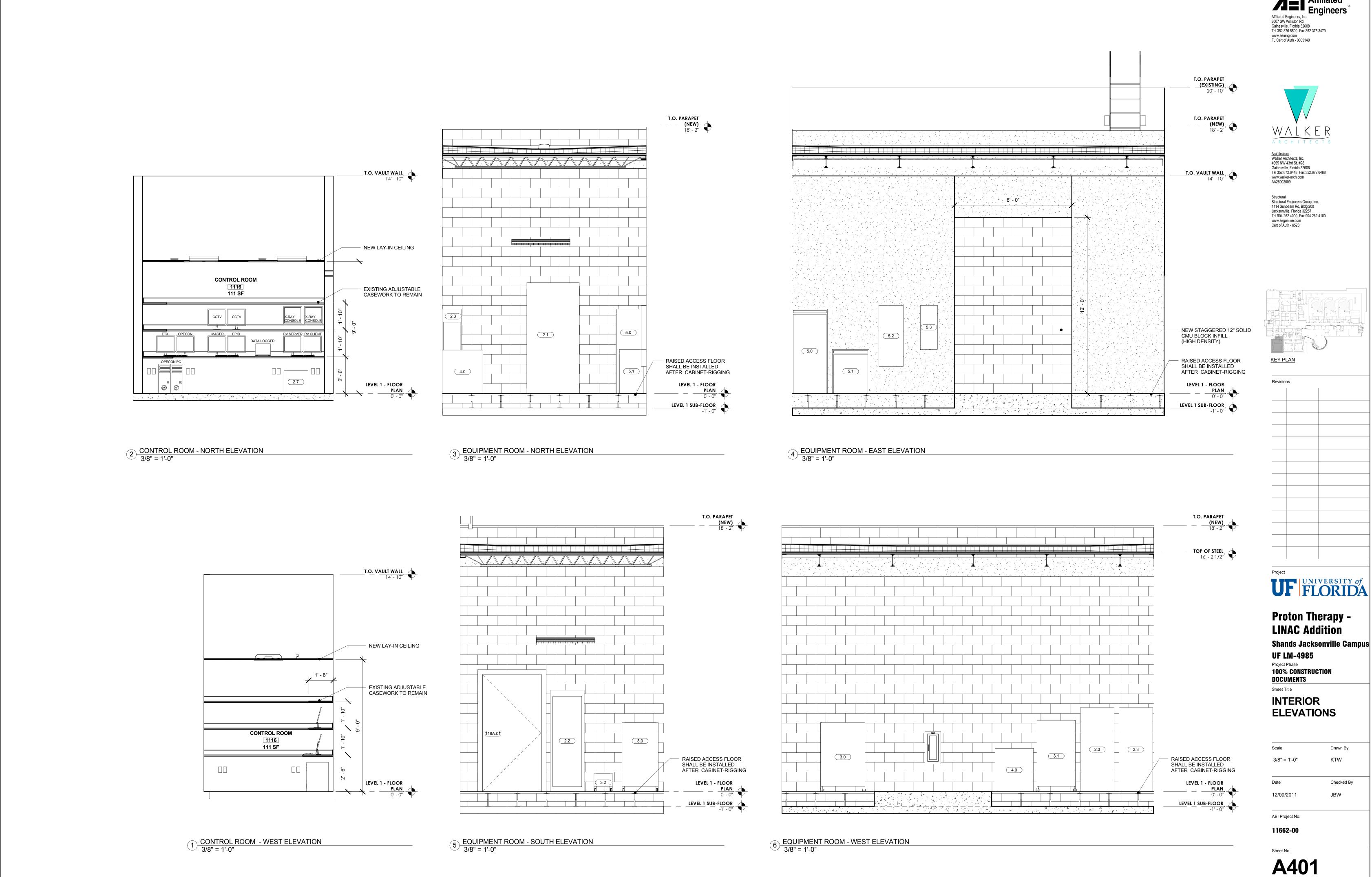
 Date
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 Date
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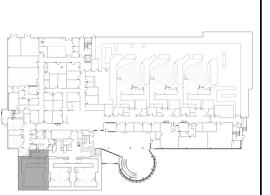
Sheet No.





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EXTERIOR DETAILS

Sheet Title

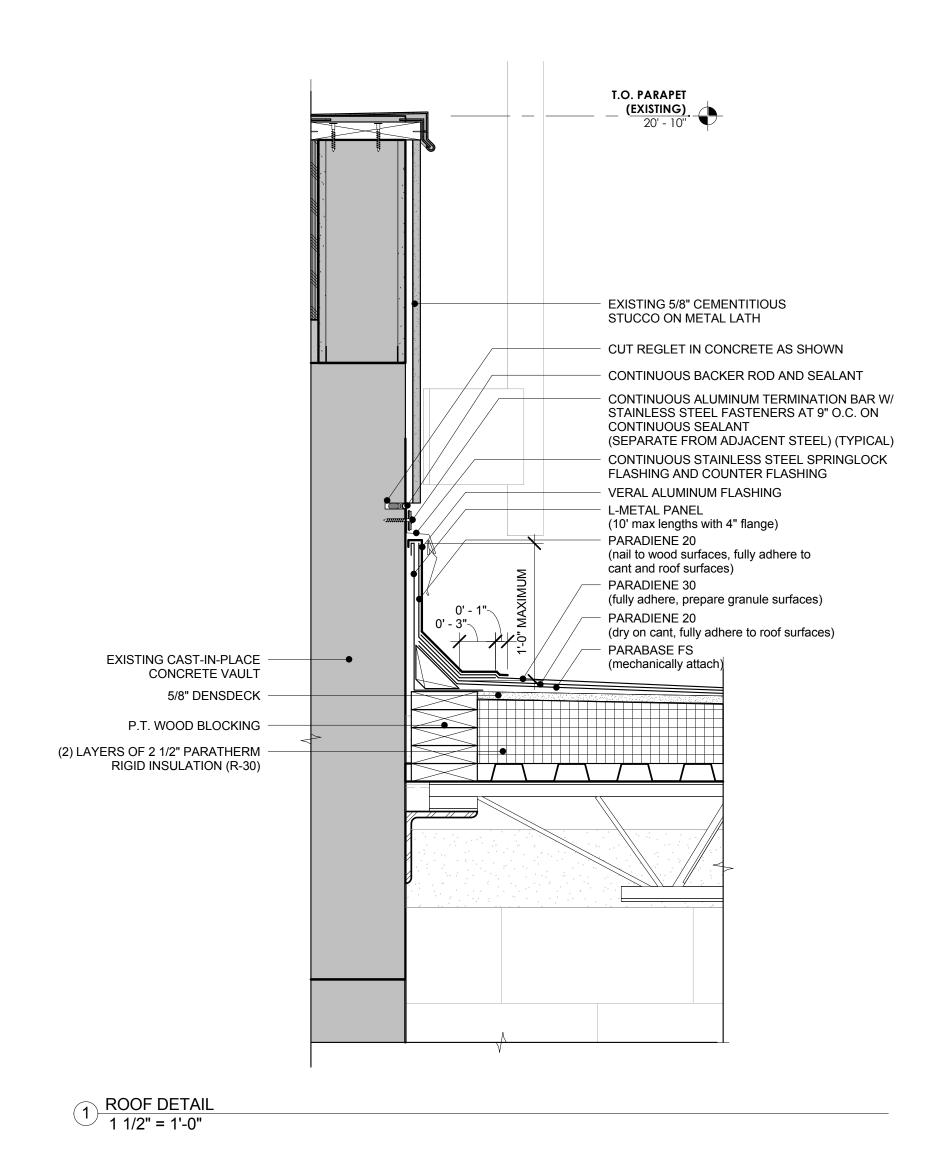
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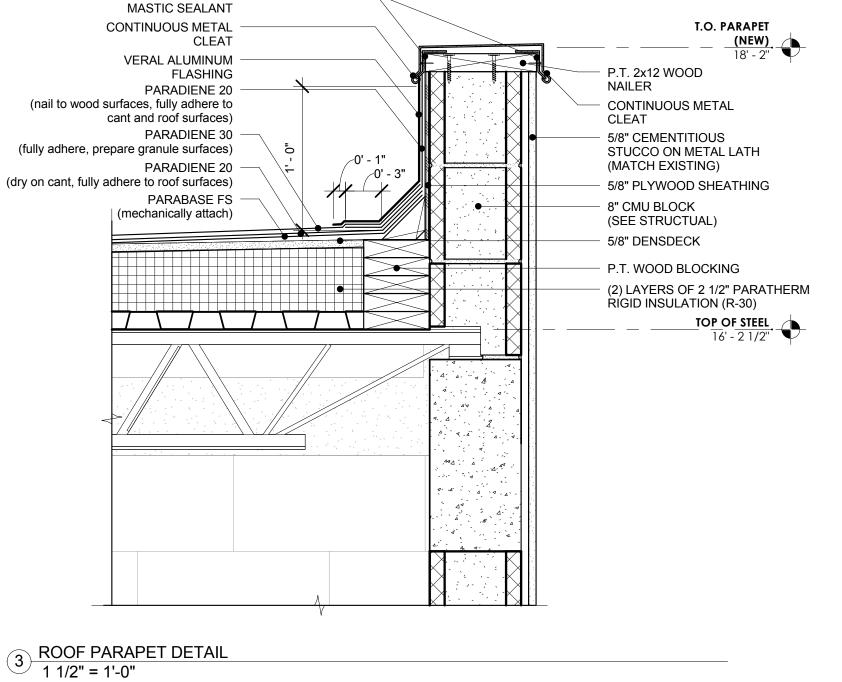
Sheet No.

A500

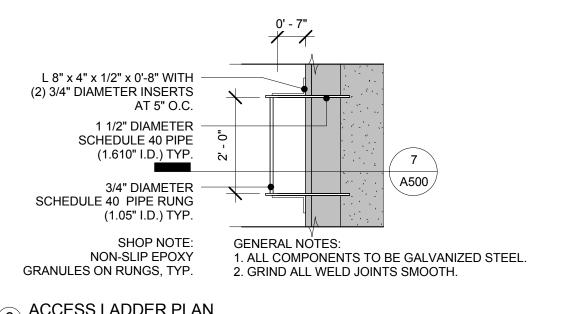


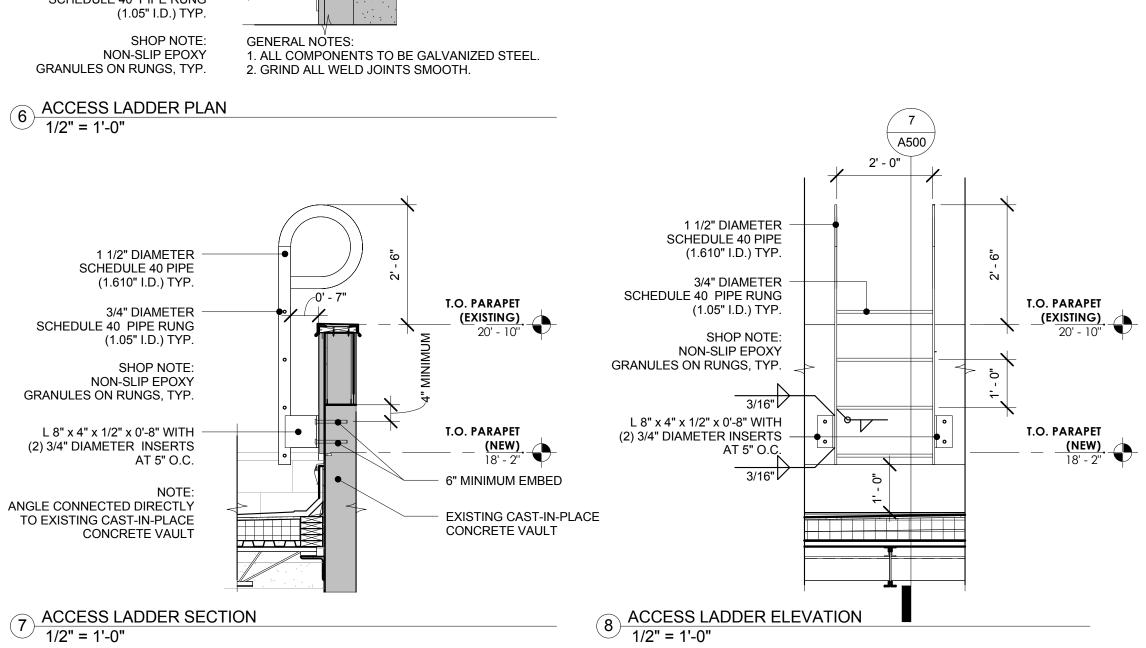
PARADIENE 30 (fully adhere, set in mastic over Veral sheet, lap 4" minimum) **VERAL** (48" x 48" - torch apply, prime foil around edges 4" minimmum) PARADIENE 20 (39" x 39" - fully adhere, extend 4" beyond edge of lead) - LEAD FLASHING (4 lb., 30" x 30" - prime and set in mastic) PARADIENE 20 (fully adhere) MASTIC (set Paradiene 20 layer in mastic 6" around drain perimeter) 5/8" DENSDECK PARATHERM RIGID INSULATION (R-30) STRAINER AND CLAMPING RING METAL ROOF DRAIN

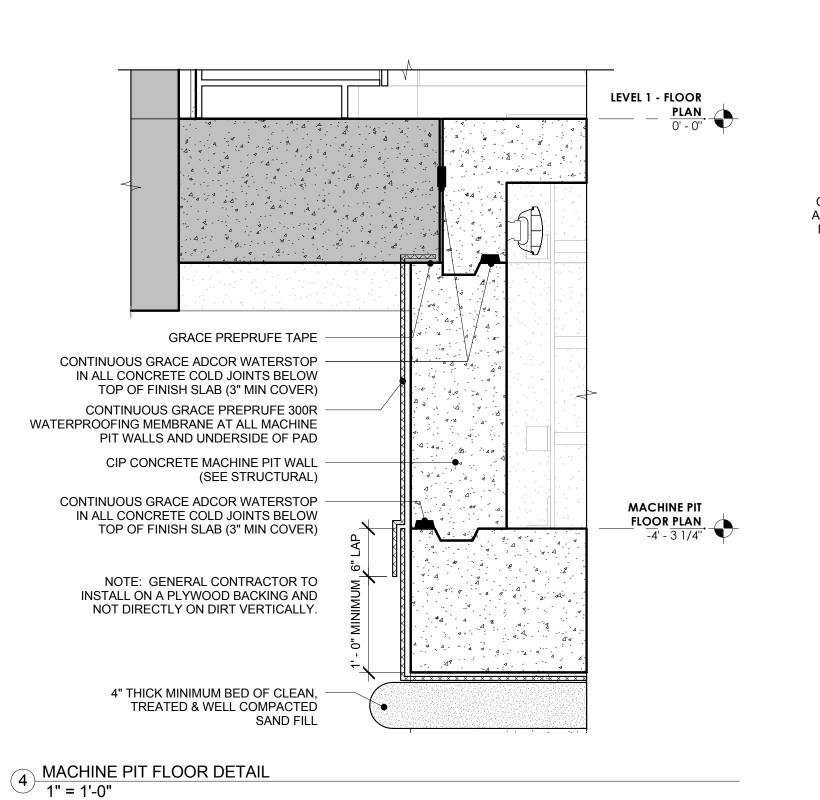
2 ROOF DRAIN DETAIL 1 1/2" = 1'-0" NOTE: SUMP DRAIN MINIMUM OF 1"

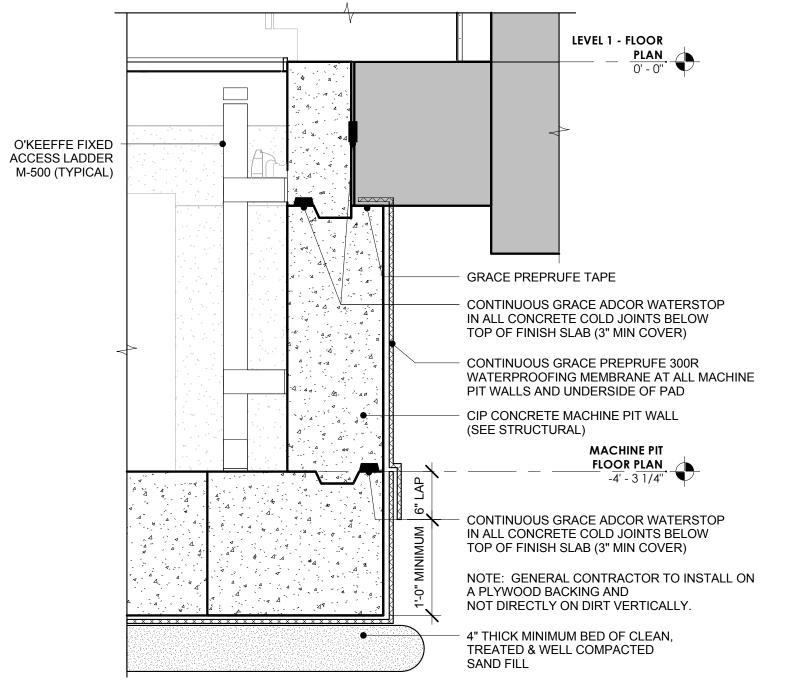


FASTENER SET IN









5 MACHINE PIT LADDER DETAIL
1" = 1'-0"