

10038B 12 (Siemens Hybrid)									
С	RAWING LIST	DATE: 10/16/2017							
DRAWING NO. 1	M1.0	GENERAL NOTES							
DRAWING NO. 2	M1.1	OVERVIEW							
DRAWING NO. 3	M2.0	MODULE LAYOUT							
DRAWING NO. 4	M3.0	BOOM LAYOUT							
DRAWING NO. 5	M4.0	STRUCTURAL LAYOUT							
DRAWING NO. 6	M5.0	GRID ASSEMBLY & ELECTRICAL							
DRAWING NO. 7	M6.0	LIGHTING CALCULATIONS							

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GENERAL NOTES

- 1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES.
- 2. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE ERECTION SHORING AND BRACING AS REQUIRED FOR STABILITY OF ALL STRUCTURES DURING ALL PHASES OF CONSTRUCTION.
- 3. IN NO CASE SHALL WORKING DRAWINGS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
- 4. THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURES. THEY DO NOT INDICATE METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT EXISTING AND NEW STRUCTURES DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, BRACING, SHORING, ETC, FOR ALL CONSTRUCTION PHASE LOADS.
- 5. ALL WORK SHALL BE PREFORMED IN COMPLIANCE WITH 2006 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED BY THE STATE OF **NEW YORK**.
- 6. SEE STRUCTURAL DRAWINGS FOR CLEANSUITE SUPPORT DETAILS

STRUCTURAL STEEL

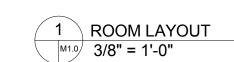
- 1. MATERIAL SHALL CONFORM AS FOLLOWS:
- 1.A. TUBE STEEL HOLLOW STRUCTURAL SECTION: ASTM A500 FY= 46KSI, GRADE B.
- 1.B. SHEET METAL: ASTM A653 FY= 36KSI
- 1.C. PIPE:ASTM A53, FY=36 KSI1.D. BOLTS: (GRADE 5 EQUIVALENT)

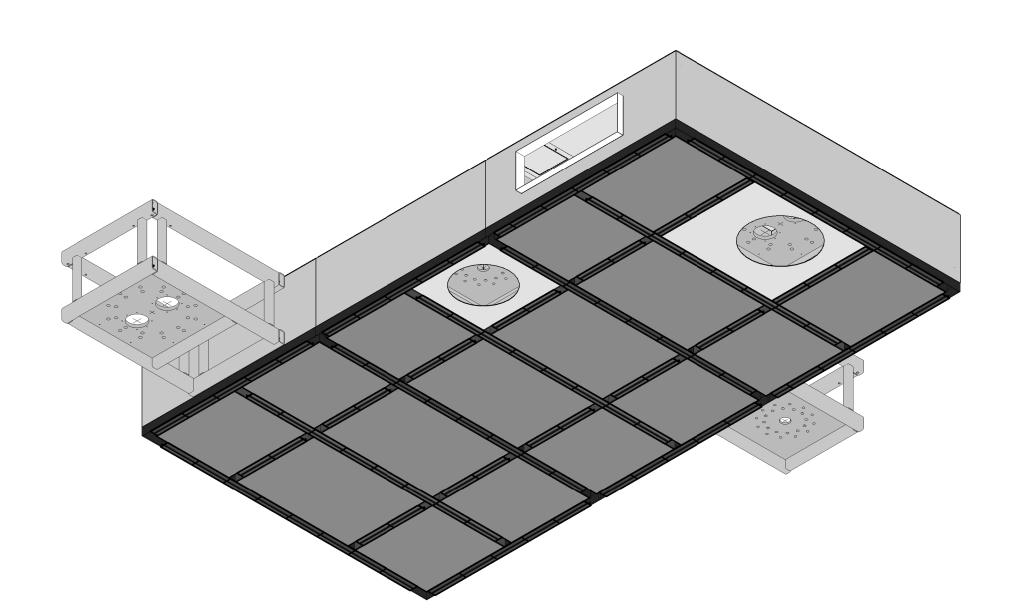
STRUCTURAL STEEL CONT'D

- 2. WELDED CONECTIONS:
- 2.A. WELD MATERIAL:
- 2.A.a TENSILE STRENGTH: 86 KSI 2.A.b YEILD STRENGTH: 76 KSI AS WELDED WITH 75/.25%

2.A.c WELD TYPE: FCAW-G FILL METAL E71T-7M

- 3. BOLTED CONNECTIONS:
- TOP, BOTTOM AND CORNERS OF CLEANSUITE CONNECTIONS: 3.A.a GRADE 5 EQUIVALENT DIA 5/8" BOLT, 24.00" OC.
- 3.A.b USE A HARDENED WASHER BENEATH THE TURNED ELEMENT OF THE BOLT OF NUT. HARDENED WASHER TO BE AT LEAST 5/16" THICK CONFORMING TO ASTM F436.
- 3.A.c HOLES HAVE A STANDARD OVERSIZE CALL OUT UNLEOTHERWISE
- 3.A.d TIGHTEN BOLTS SNUG UNTIL ALL PLIES OF THE JOINT ARE IN FIRM
- 3.A.e ENLARGE BOLT HOLES BY REAMING IF NECESSARY. DO NOT TORCH CUT.





SIEMENS HYB

2 CLEANSUITE

APPROVED DATE AS BUILT DATE REV. NO. REVISION DESCRIPTION GOVERNAIR OHUNTAIR Mammoth [17emtro] YVENMARCES VENTOI VENTOI 19855 SW 124th Ave TUALATIN, OR 97062 Phone (503) 639-0113 Fax (503) 639-1296 www.nortekair.com HOSPITAL NAME_ OR THIS DRAWING IS THE PROPERTY OF HUNTAIR CLEANSUITE AND CAN NOT BE REPRODUCED IN WHOLE OR IN PART, NOR DELIVERED TO OTHERS WITHOUT THE EXPRESS WRITTEN GENERAL NOTES PERMISSION OF HUNTAIR CLEANSUITE. HOSPITAL NAME HOSPITAL NAME ADDRESS CITY, STATE ZIP M1.0 XX-XXXX

PLOT SCALE

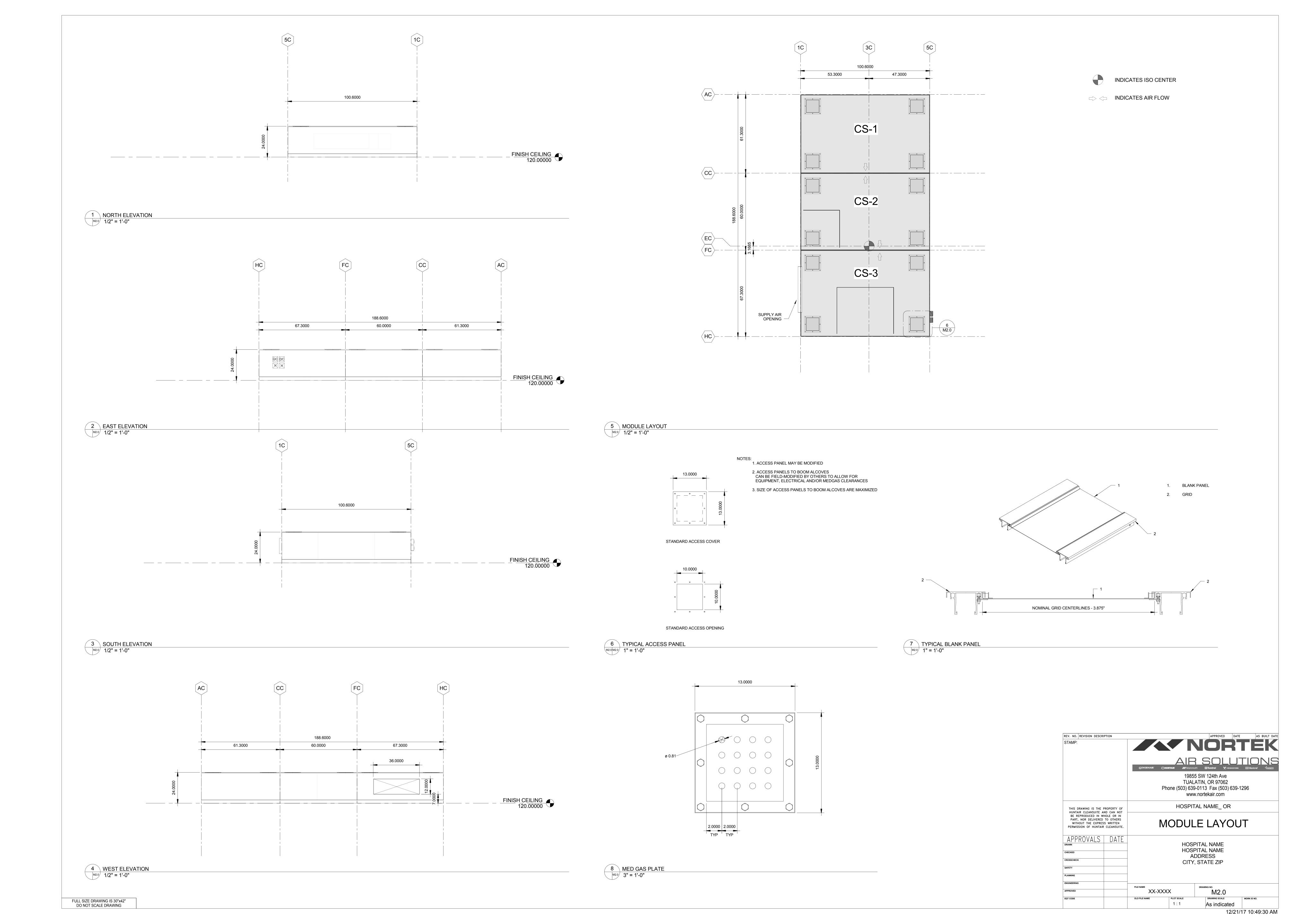
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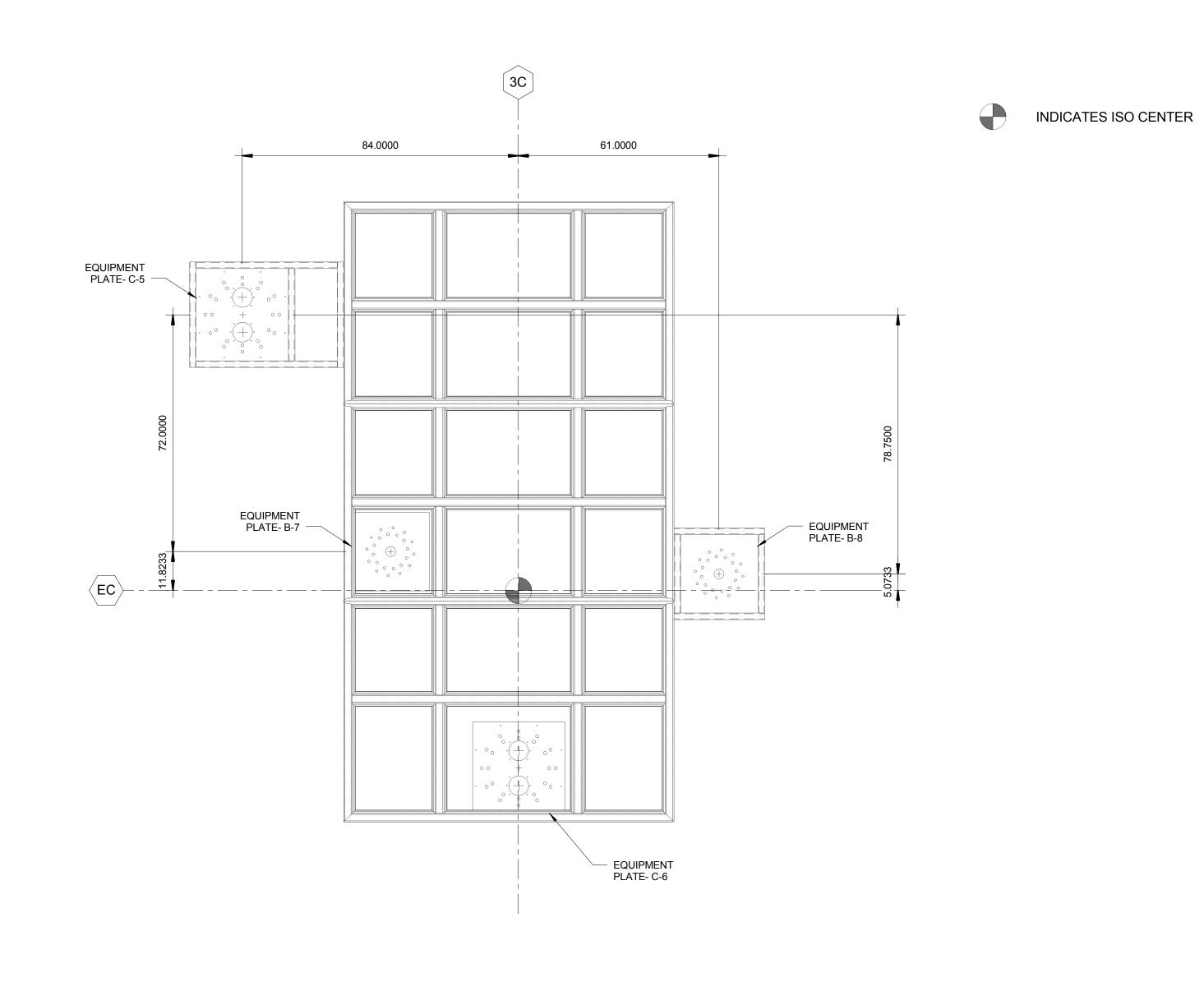
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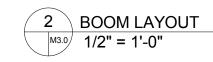
DRAWING SCALE

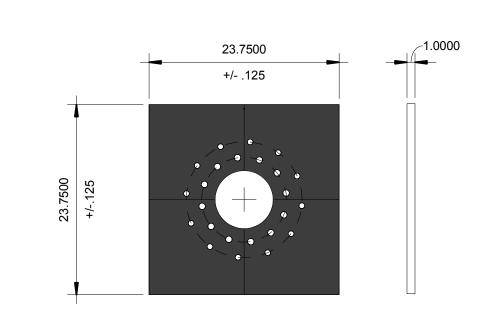




Boom Plate Schedule											
Count	Type Mark	pe Mark Manufacturer Model		anufacturer Model Description		Comments					
2	B7, B8	STERIS		SINGLE MOUNT EQUIPMENT PLATE	6.0000	23.7500x23.7500x1.0000					
2	C5,C6	STERIS		TANDEM MOUNT EQUIPMENT PLATE	6.0000	28.0000x28.0000x1.0000					

1 BOOM PLATE SCHEDULE
M3.0 12" = 1'-0"





28.0000

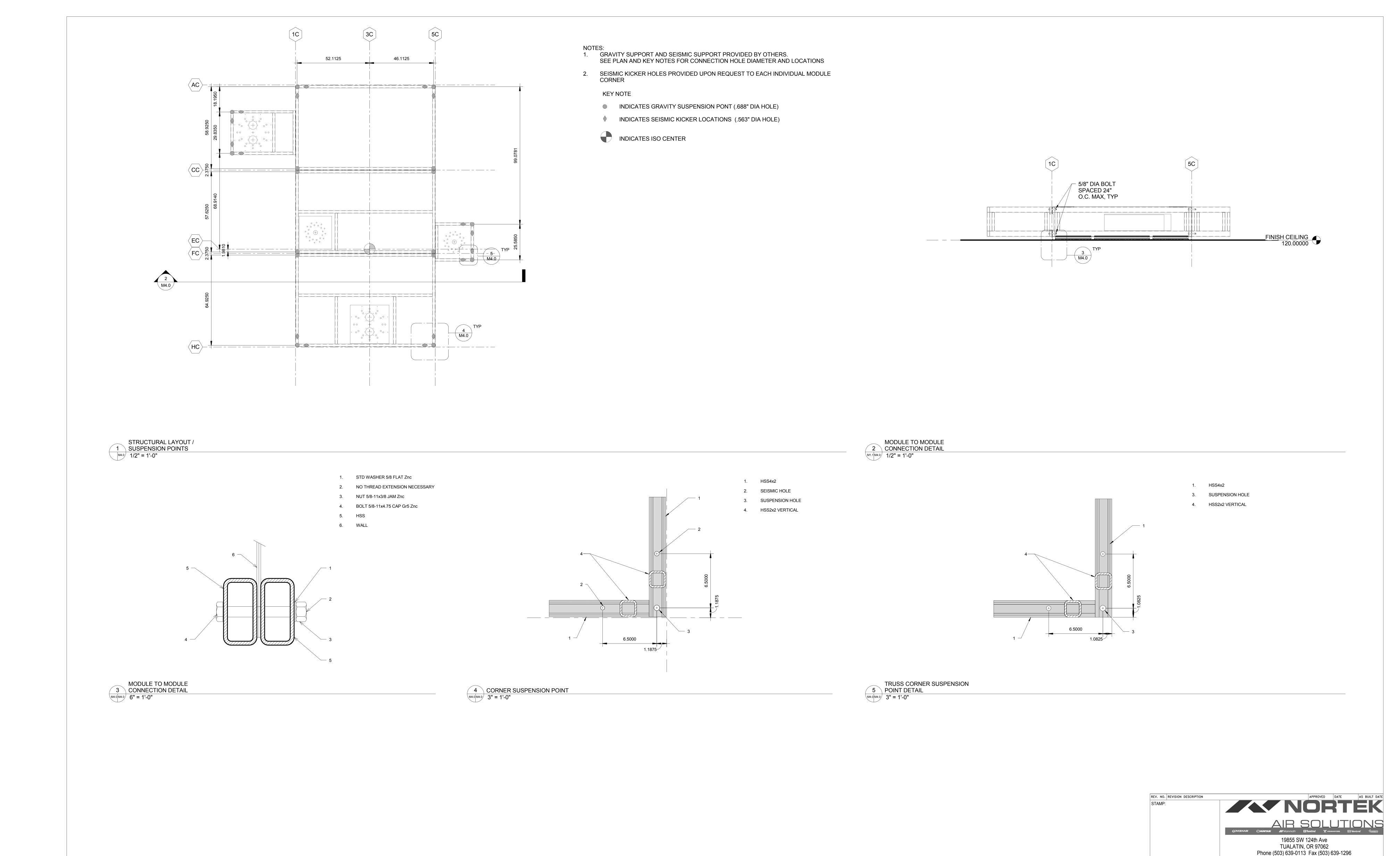
3 STERIS EQUIPMENT PLATE
M3.0 1" = 1'-0"

STERIS TANDEM EQUIPMENT
PLATE
M3.0 1" = 1'-0"

APPROVED DATE AS BUILT DATE

ORIGINAL PROVED DATE AS BUILT DATE REV. NO. REVISION DESCRIPTION GOVERNAIR MAMMOTH TEMETOL VENIMARCES TO VENTURE VENTUR 19855 SW 124th Ave TUALATIN, OR 97062 Phone (503) 639-0113 Fax (503) 639-1296 www.nortekair.com HOSPITAL NAME_ OR THIS DRAWING IS THE PROPERTY OF HUNTAIR CLEANSUITE AND CAN NOT BE REPRODUCED IN WHOLE OR IN PART, NOR DELIVERED TO OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF HUNTAIR CLEANSUITE. **EQUIPMENT LAYOUT** APPROVALS DATE HOSPITAL NAME HOSPITAL NAME ADDRESS CITY, STATE ZIP M3.0 XX-XXXX OLD FILE NAME PLOT SCALE DRAWING SCALE 1:1 As indicated 12/21/17 10:49:34 AM

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HOSPITAL NAME_ OR

STRUCTURAL LAYOUT

HOSPITAL NAME HOSPITAL NAME

ADDRESS CITY, STATE ZIP

XX-XXXX

PLOT SCALE

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OLD FILE NAME

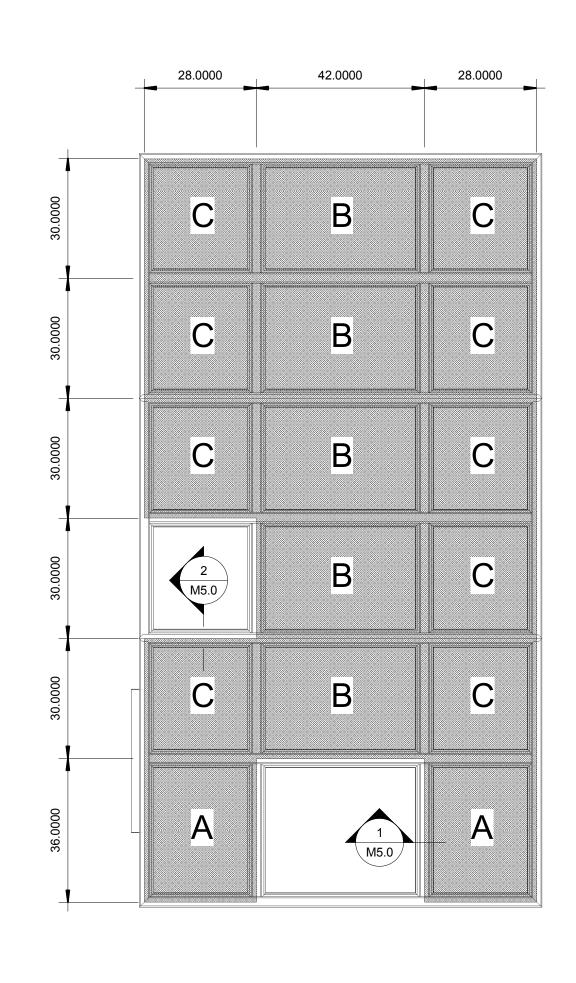
M4.0

DRAWING SCALE

As indicated

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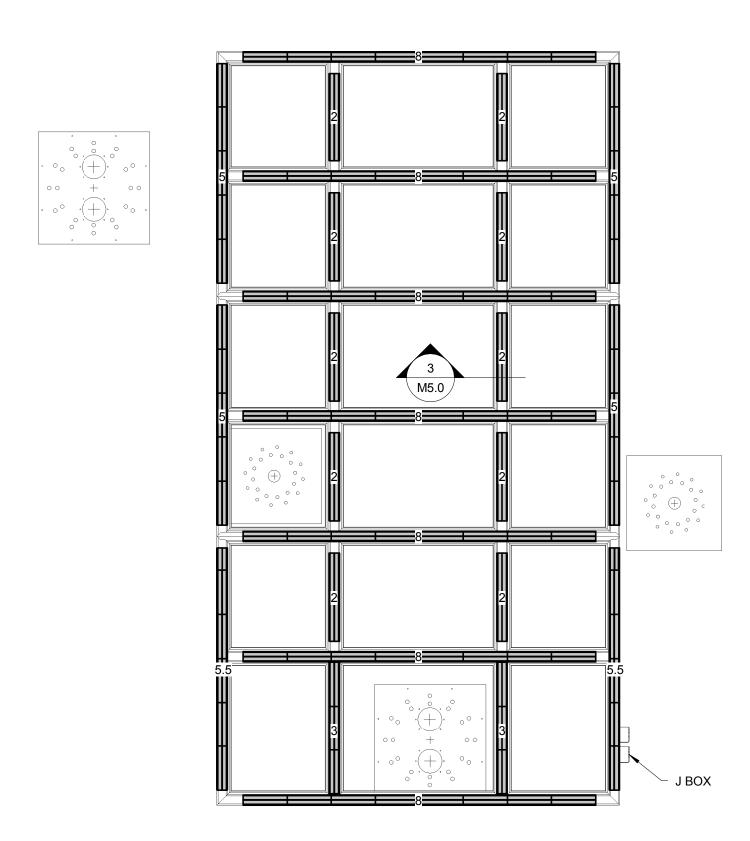
APPROVALS DATE



Air Filter/ Diffuser Schedule										
Type Mark	Count	Description	Model	Manufacturer	Comments					
Α	2		DIFFUSER	HUNTAIR						
В	5		DIFFUSER	HUNTAIR						
С	9		DIFFUSER	HUNTAIR						
	9									

SYSTEM SIZING

CFM: 2757.5 DIFA: 110.3 SF VELOCITY: 25 FPM CFM: 3860.5 DIFA: 110.3 SF VELOCITY: 35 FPM



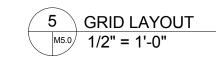
NOTE:

1. LED LENS IS CLEAR-DIFFUSER

LIGHTING ON (2) CIRCUITS (PERIMETER AND INTERIOR)
 J-BOXES PROVIDED PER CIRCUIT
 120/277VAC POWER
 0-10V LED DIMMING CONTROL

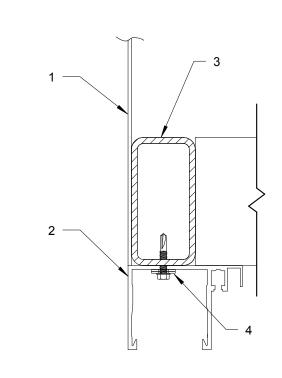
3. LOW VOLTAGE AND ELECTRICAL WIRING FOR BOOMS ARE WIRED DIRECTLY TO BOOM AND PROVIDED BY OTHERS

4. PERIMETER WATTAGE = 318.4 INTERIOR WATTAGE = 447.2



- 1 TEK SCREW ZINC PLATED
- 2 HSS4x2x1/4 POWDER COATED PAINT

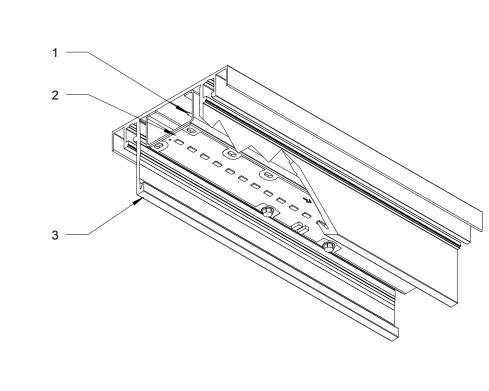
3 INTERIOR FLUSH MOUNT GRID - POWDER COATED PAINT





6 LIGHTING LAYOUT

- SIDEWALL
 PERIMETER GRID
 HSS4x2x1/4
- 4 TEK SCREW
- , , En oonen



5 4

- LIGHT FIXTURE
 LED STRIP
- 3 LENS CLIP IN EXTRUSION
- LENS CLIP IN EXTRUSION2.6 BOTTOM LOAD GRID EXTRUSION
- 5 LED MOUNTING STRUT

TYPICAL TUBE TO GRID ATTACHMENT-INTERIOR 1" = 1'-0" TUBE TO GRID
ATTACHMENT-EXTERIOR
1" = 1'-0"

3
TYP LED LIGHTING DETAIL
1/2" = 1'-0"

APPROVED DATE AS BUILT DATE

ORIGINAL PROVED DATE AS BUILT DATE REV. NO. REVISION DESCRIPTION GOVERNAIR OHUNTAIR MAMMOTTO TO THE TEMPORAL TO THE VENTINA CEB TO 19855 SW 124th Ave TUALATIN, OR 97062 Phone (503) 639-0113 Fax (503) 639-1296 www.nortekair.com HOSPITAL NAME_ OR THIS DRAWING IS THE PROPERTY OF HUNTAIR CLEANSUITE AND CAN NOT BE REPRODUCED IN WHOLE OR IN PART, NOR DELIVERED TO OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF HUNTAIR CLEANSUITE. **GRID ASSEMBLY & ELEC** APPROVALS DATE HOSPITAL NAME HOSPITAL NAME ADDRESS CITY, STATE ZIP M5.0 XX-XXXX OLD FILE NAME PLOT SCALE DRAWING SCALE

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Author 12/21/17 10:49:43 AM

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		2 9	• 35	• 44	5 4	6 2	6 6	•	6 1	5 3	• 44	36						
		32	• 41	54	6 8	• 79	● 86	•	• 78	6 6	53	• 43						
23	2 8	3 6	4 8	6 4	8 2	• 98	1 06	•	9 6	● 80	6 3	4 9						
2 4	2 9	• 39	5 4	7 3	95	114	124	•	111	• 92	• 72	55						
2 5	31	• 42	5 8	● 80	1 04	124	123	•	122	• 101	• 78	6 0						
2 5	32	4 3	6 0	● 83	108	124	187188187185 18818 69 86 189189189187		127	1 05	81	6 2						
2 5	31	• 42	5 9	8 2	107	121	189	• 0	127	1 04	81	6 1						
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GENERAL NOTES

- 1. THESE RESULTS ARE ESTIMATED.
- 2. LUMINAIRE HEIGHT: 10 FT
- 3. CALCULATION GRID HEIGHT ABOVE THE FLOOR: 3 FT (STANDARD TABLE HEIGHT)
- 4. EXTERNAL LIGHTING NOT INCLUDED.
- 5. SHARED LIGHT IS NOT INCLUDED.
- 6. WALL LOCATIONS ARE APROXIMATE.
- 7. LIGHT LOSS FACTOR: 0.91
- 8. ONLY DIRECT LIGHT IS CALCULATED.

DISCLAIMER

Illuminance (fc)

ElumTools Default Analysis

163 –

136 —

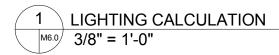
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CALCULATIONS HAVE BEEN PERFORMED ACORDING TO IES STANDARDS AND GOOD PRACTICE, SOME DIFFERENCES BETWEEN MEASURED VALUES AND CALCULATED RESULTS MAY OCCUR DUE TO TOLERANCES IN CALCULATION METHODS, TESTING PROCEDURES, COMPONENT PERFORMANCE, MEASUREMENT TECHNIQUES AND FIELD CONDITIONS SUCH AS VOLTAGE AND TEMPERATURE VARIATIONS. INPUT DATA USED TO GENERATE THE ATTACHED CALCULATIONS SUCH AS ROOM DIMENSIONS, REFLECTANCES, FURNATURE AND ARCHITECTURAL ELEMENTS SIGNIFICANTLY AFFECT THE LIGHTING CALCULATIONS. IF THE REAL ENVIORMENT CONDITIONS DO NOT MATCH THE INPUT DATA, DIFFERENCES WILL OCCUR BETWEEN MEASURED VALUES AND THE CALCULATED VALUES.

	Revit Categories						ElumTools Material Properties									
	Category Override	Category Name	▲ Cai	tegory pe		Surface Type	Color	Reflectance	Transmittance	Mesh Level	Color Bleed	Luminance	Luminance Color		Specularity (Raytrace Only)	Glossiness (Raytrace Only)
9	✓			-		-		- · · · · · · · · · · · · · · · · · · ·	‡	-						
	v Catego	ry Type: Common (3)														
	✓	Ceilings	Cor	mmon		Opaque, 1-sided		0.80	0.00	0 (Default)	1.00	0		V	0.00	0.00
	V	Floors	Cor	mmon		Opaque, 1-sided		0.40	0.00	0 (Default)	1.00	0		V	0.00	0.00
	V	Walls	Cor	mmon		Opaque, 1-sided		0.70	0.00	0 (Default)	1.00	0		V	0.00	0.00

	ElumTools General Use Illuminance Results											
Project Name	Project Number	Calculation Points Name	Average	Minimum	Maximum							
HOSPITAL NAME_ OR	XX-XXXX	STERIS 5085 General Surgical Table	179 fc	157 fc	189 fc							
HOSPITAL NAME OR	XX-XXXX	SIEMENS HYB 1	55 fc	3 fc	129 fc							

					LIGHTING FIXT	URE SCHEDULE		
Manufacturer	Model	Count	Total Light Loss Factor	Luminaire Lumens	Wattage	Photometric File Data	OmniClass Number	OmniClass Title
Huntair	26-LED03-0.188-WOR-WPCL	114	0.91	540 lm	O W	IESNA:LM-63-2002	23.80.70.11	Luminaries for Internal Light



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