

10038B 10 (CVOR split mount

D	RAWING LIST	DATE : 1
DRAWING NO. 1	M1.0	GENERAL NOTES
DRAWING NO. 2	M2.0	MODULE LAYOUT
DRAWING NO. 3	M3.0	BOOM LAYOUT
DRAWING NO. 4	M4.0	STRUCTURAL LAYOUT
DRAWING NO. 5	M5.0	GRID ASSEMBLY & ELECTRICAL
DRAWING NO. 6	M6.0	LIGHTING CALCULATIONS

THIS DRAWING PACKAGE, SPECIFICATIONS, AND CONCEPTS CONTAINED HEREIN ARE THE SOLE PROPERTY OF NORTEK AIR SOLUTIONS, AND MAY NOT BE REPRODUCED OR USED IN ANY FASHION WITHOUT THE PRIOR WRITTEN PERMISSION OF NORTEK AIR SOLUTIONS.

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.
- IN NO CASE SHALL WORKING DRAWINGS BE SCALED 3. 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 KSI
- 1.D. BOLTS: (GRADE 5 EQUIVALENT)

STRUCTURAL STEEL CONT'D

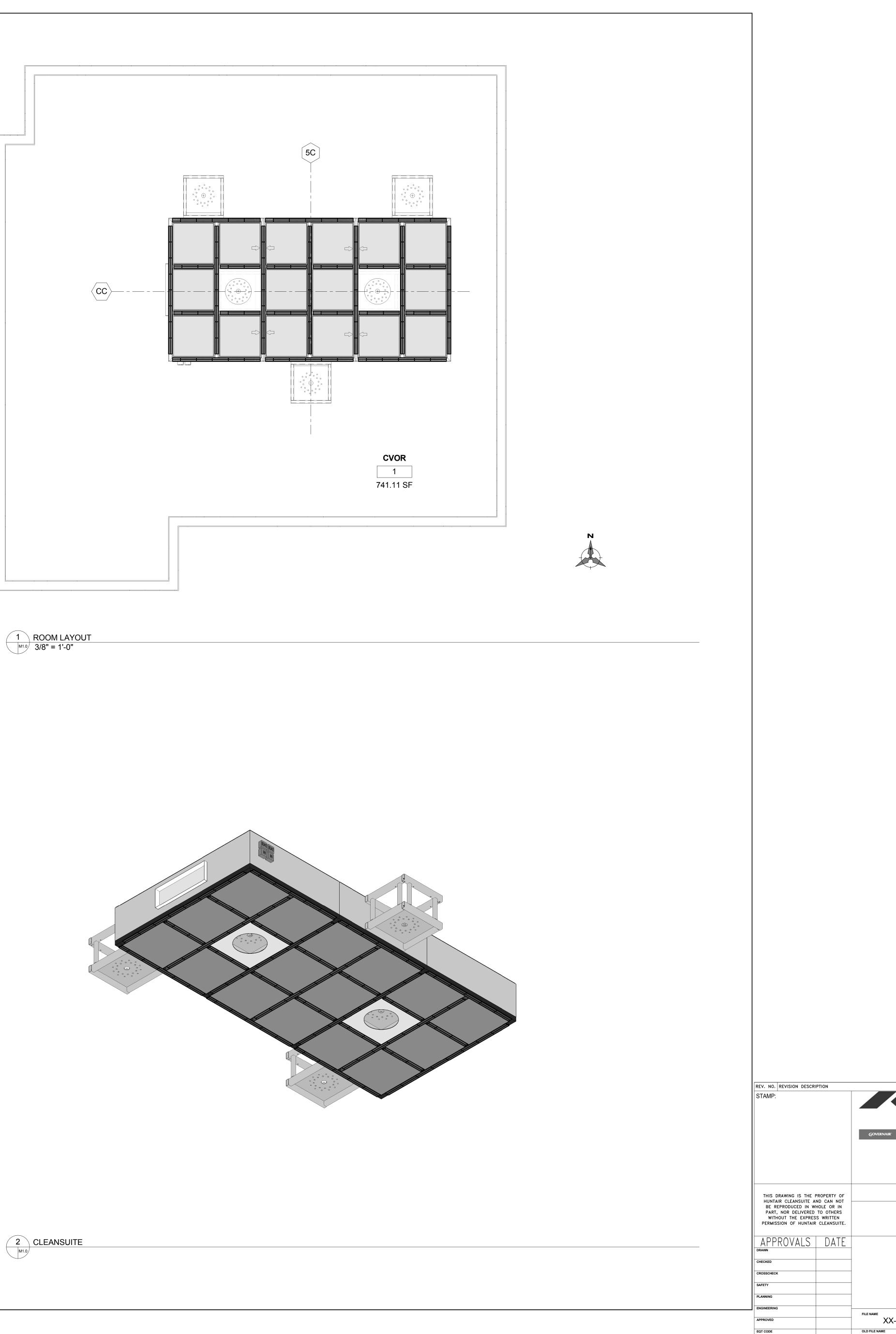
2.	WELDED CONECTION
2.A.a 2.A.b	WELD MATERIAL: TENSILE STRENGTH: YEILD STRENGTH: 76 WELD TYPE: FCAW-G
3.	BOLTED CONNECTIO
	TOP, BOTTOM AND C GRADE 5 EQUIVALEN USE A HARDENED W OF NUT. HARDENED
3.A.c	ASTM F436. HOLES HAVE A STAN

ANDARD OVERSIZE CALL OUT UNLEOTHERWISE NOTED. 3.A.d TIGHTEN BOLTS SNUG UNTIL ALL PLIES OF THE JOINT ARE IN FIRM

CONTACT' 3.A.e ENLARGE BOLT HOLES BY REAMING IF NECESSARY. DO NOT TORCH CUT.



t)		
10/10/2017		



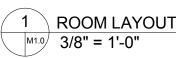
ONS:

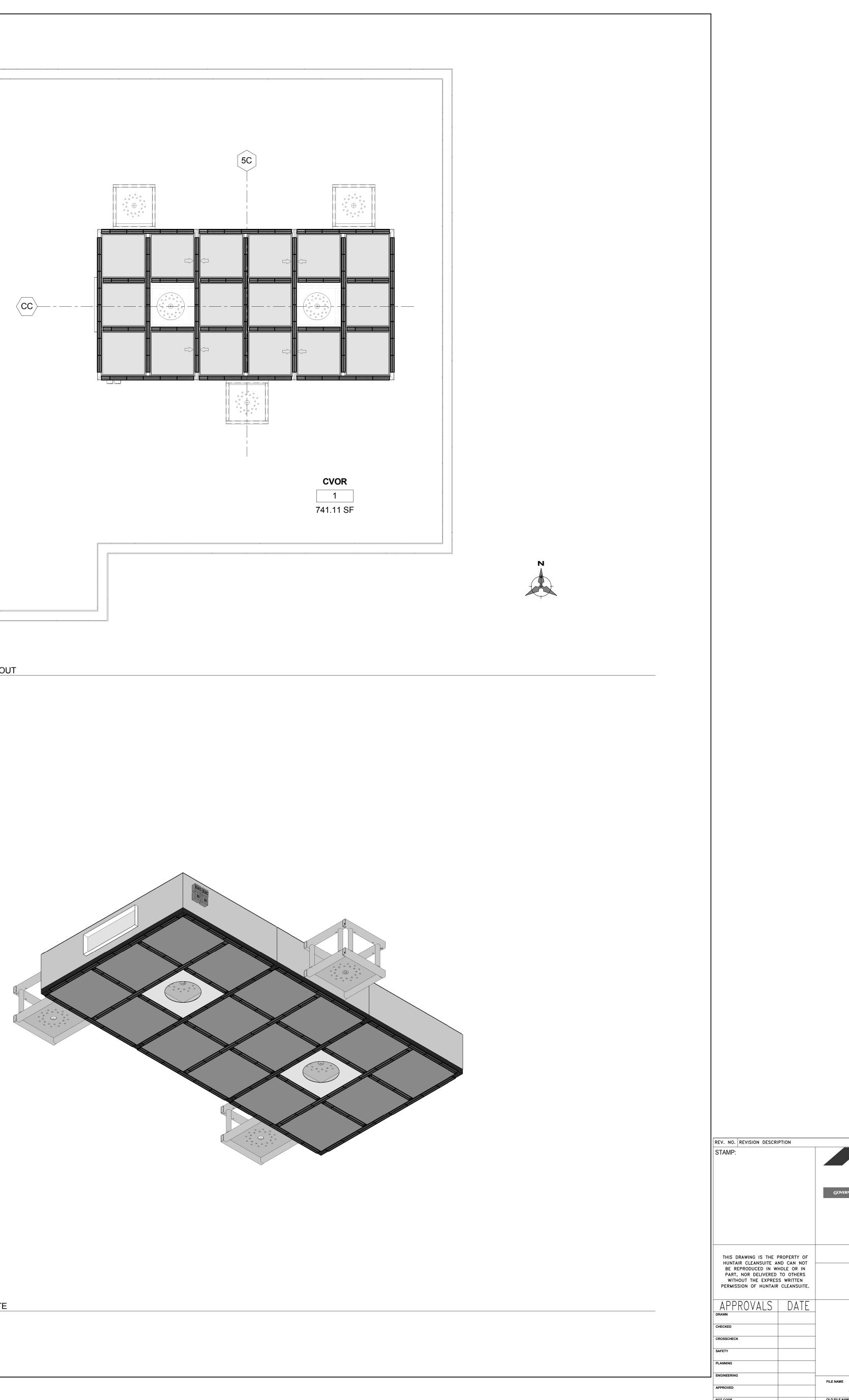
: 86 KSI 76 KSI AS WELDED WITH 75/.25% -G FILL METAL E71T-7M

IONS:

CORNERS OF CLEANSUITE CONNECTIONS: ENT DIA 5/8" BOLT, 24.00" OC. VASHER BENEATH THE TURNED ELEMENT OF THE BOLT

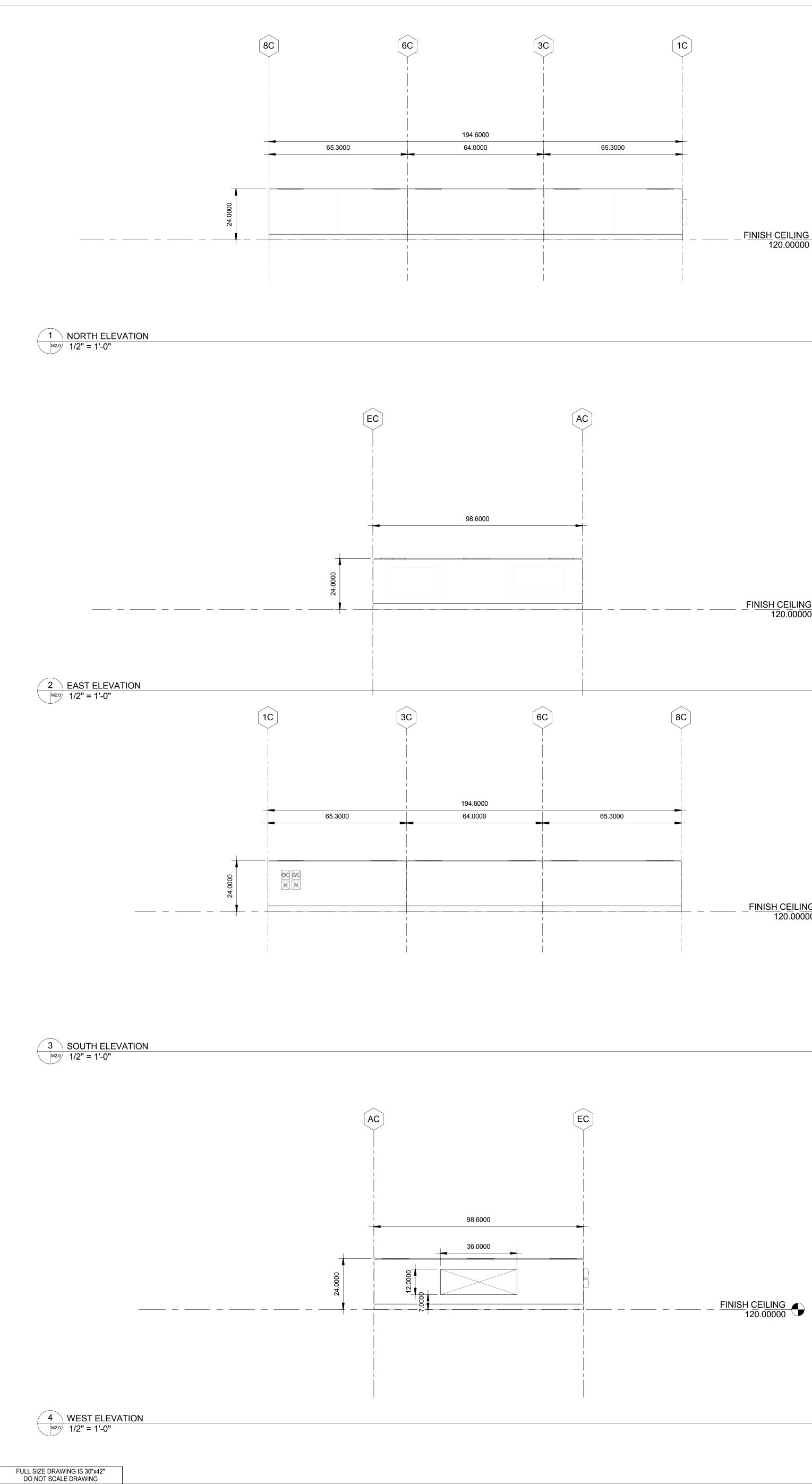
D WASHER TO BE AT LEAST 5/16" THICK CONFORMING TO

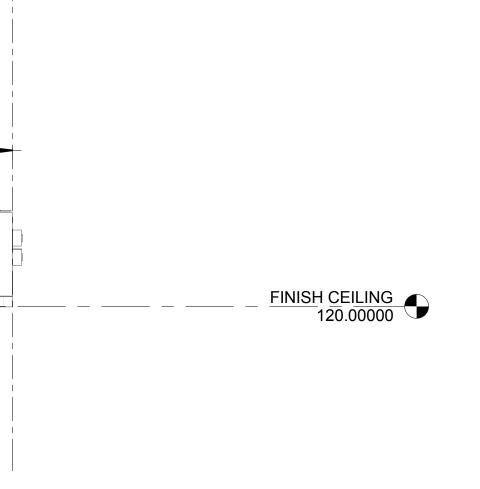


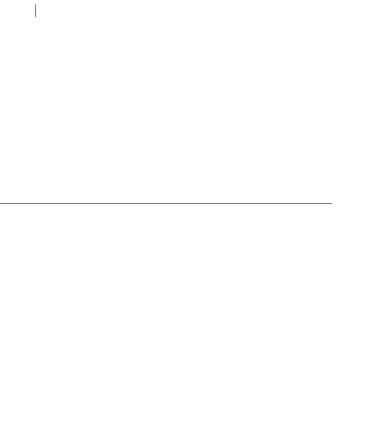




APPROVED DATE AS BUILT DATE
R CONTAIR MATTER I TEMETON VENANCES VENTONS 19855 SW 124th Ave TUALATIN, OR 97062 Phone (503) 639-0113 Fax (503) 639-1296
HOSPITAL NAME_ OR
HOSPITAL NAME HOSPITAL NAME ADDRESS CITY, STATE ZIP
X-XXXX DRAWING NO. PLOT SCALE 1:1 DRAWING SCALE WORK ID NO. As indicated 12/20/17 3:01:24 PM





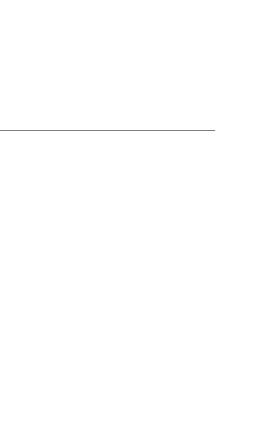


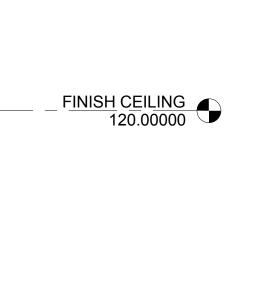


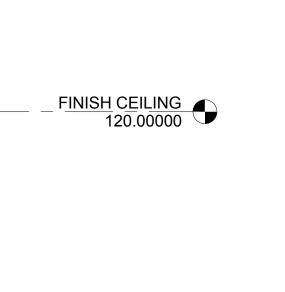


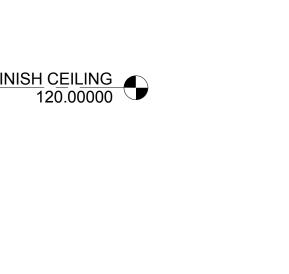




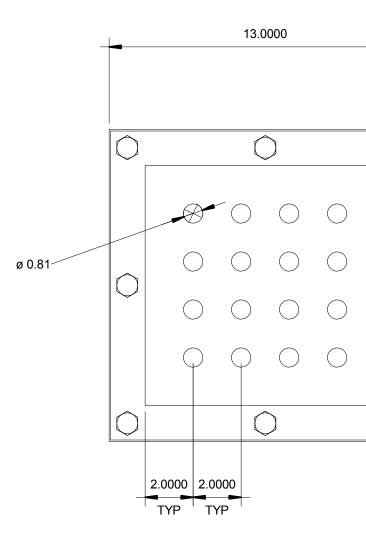






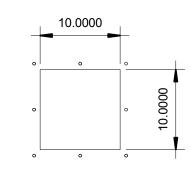


8 MED GAS PLATE M2.0 3" = 1'-0"



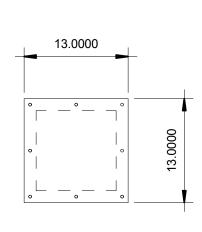
6 TYPICAL ACCESS PANEL M2.0 M2.0 1" = 1'-0"

5 MODULE LAYOUT M2.0 1/2" = 1'-0"

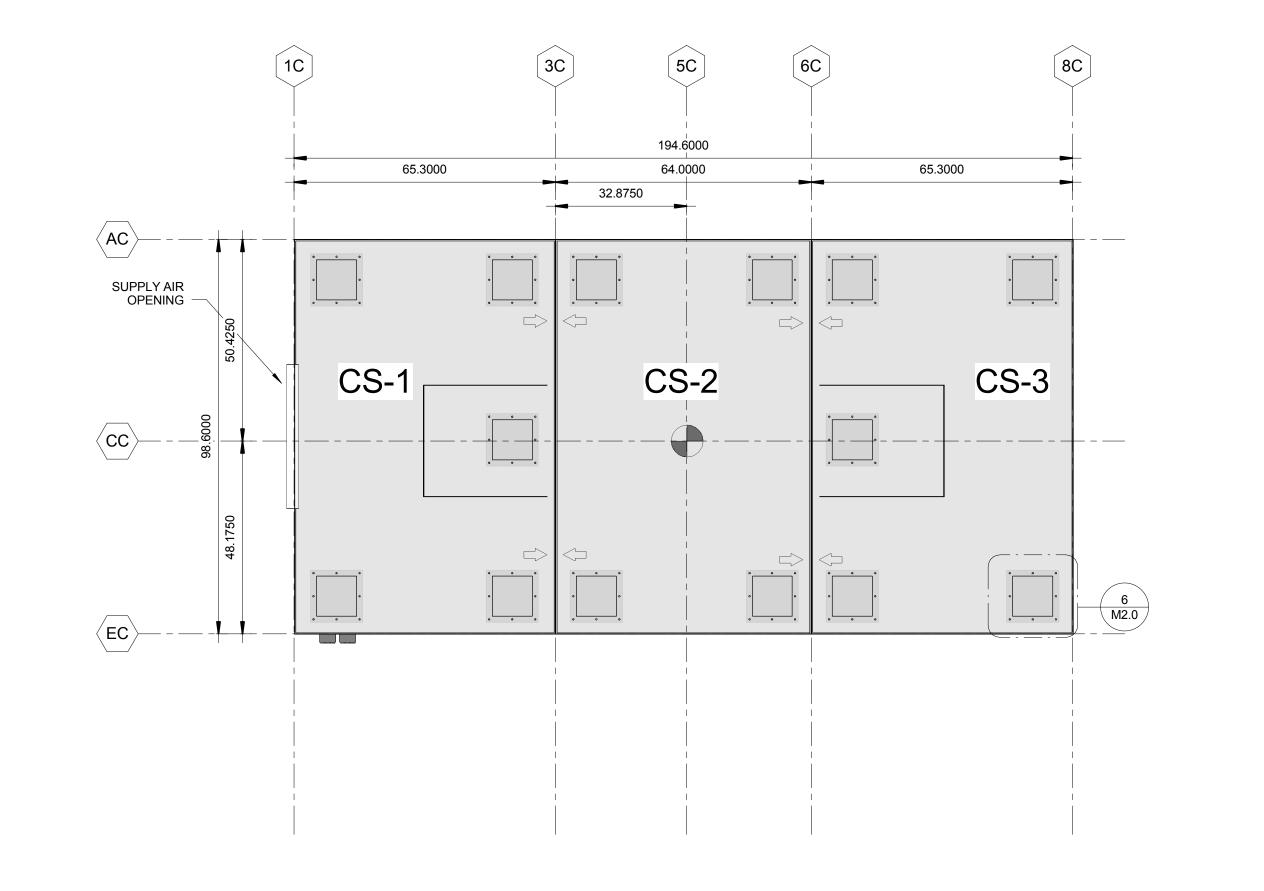


STANDARD ACCESS OPENING

STANDARD ACCESS COVER



NOTES:





INDICATES ISO CENTER \Rightarrow INDICATES AIR FLOW

1. ACCESS PANEL MAY BE MODIFIED

2. ACCESS PANELS TO BOOM ALCOVES CAN BE FIELD-MODIFIED BY OTHERS TO ALLOW FOR EQUIPMENT, ELECTRICAL AND/OR MEDGAS CLEARANCES

3. SIZE OF ACCESS PANELS TO BOOM ALCOVES ARE MAXIMIZED

 \smile

7 TYPICAL BLANK PANEL M2.0 1" = 1'-0"

APPROVED DATE AS BUILT DATE REV. NO. REVISION DESCRIPTION STAMP: 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. MODULE LAYOUT APPROVALS DATE HOSPITAL NAME HOSPITAL NAME ADDRESS DRAWN CHECKED CROSSCHECK CITY, STATE ZIP SAFETY PLANNING ENGINEERING FILE NAME DRAWING NO. M2.0 APPROVED XX-XXXX EQT CODE OLD FILE NAME PLOT SCALE DRAWING SCALE WORK ID NO. 1:1 As indicated 12/20/17 3:01:28 PM

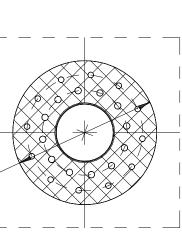
NOMINAL GRID CENTERLINES - 3.875"

1. BLANK PANEL GRID 2.

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

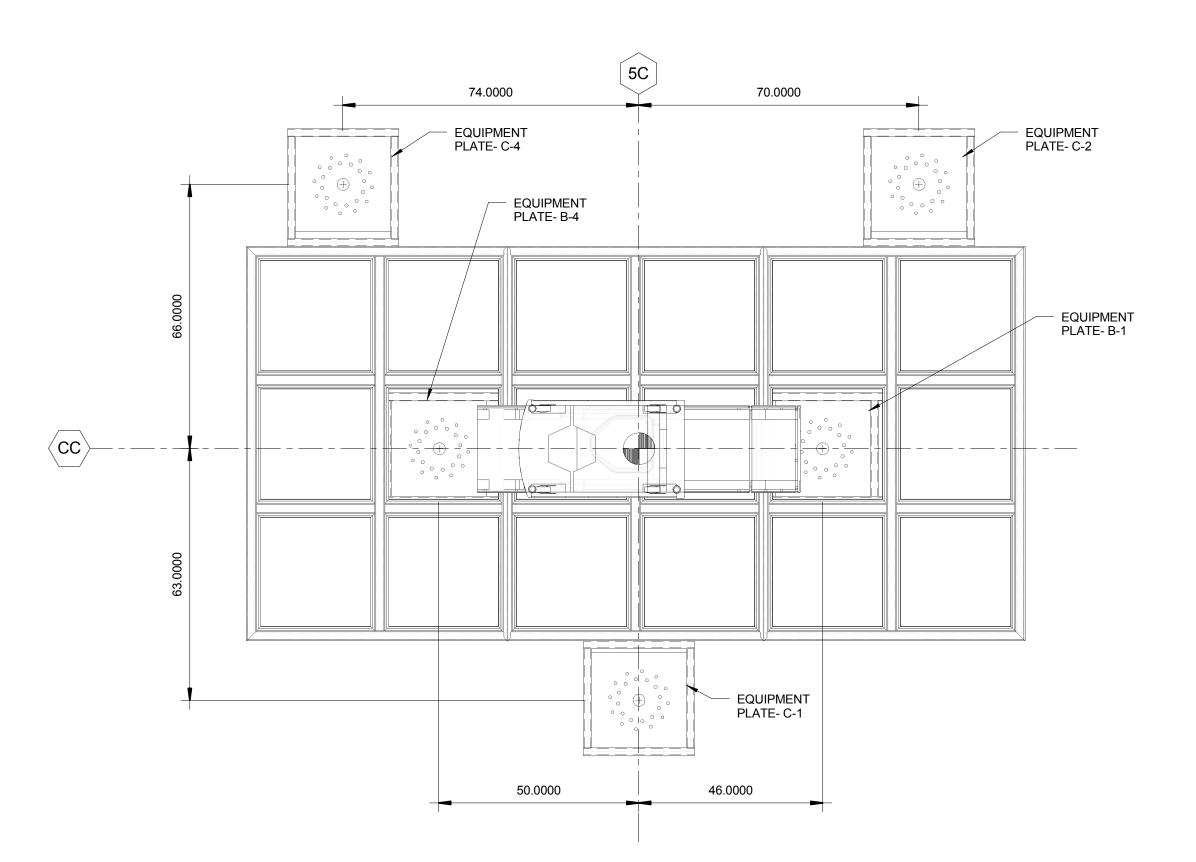
3 STERIS EQUIPMENT PLATE ^{M3.0} 1" = 1'-0"

FULL SIZE DRAWING IS 30"x42" DO NOT SCALE DRAWING



2 BOOM LAYOUT M3.0 1/2" = 1'-0"

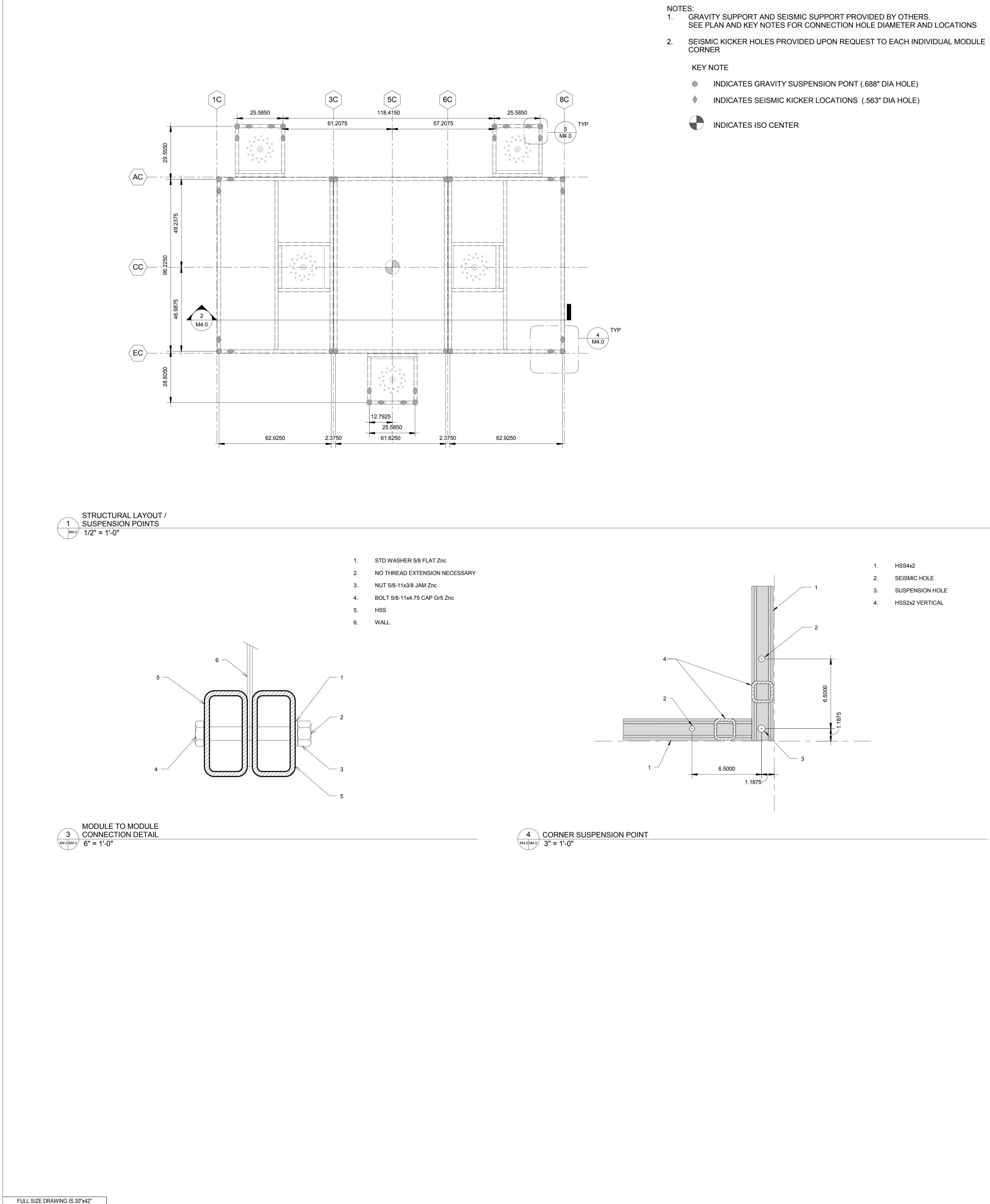
Plate Mount Height (FFC)	Comments
5.2500	23.7500x23.7500x1.0000





INDICATES ISO CENTER

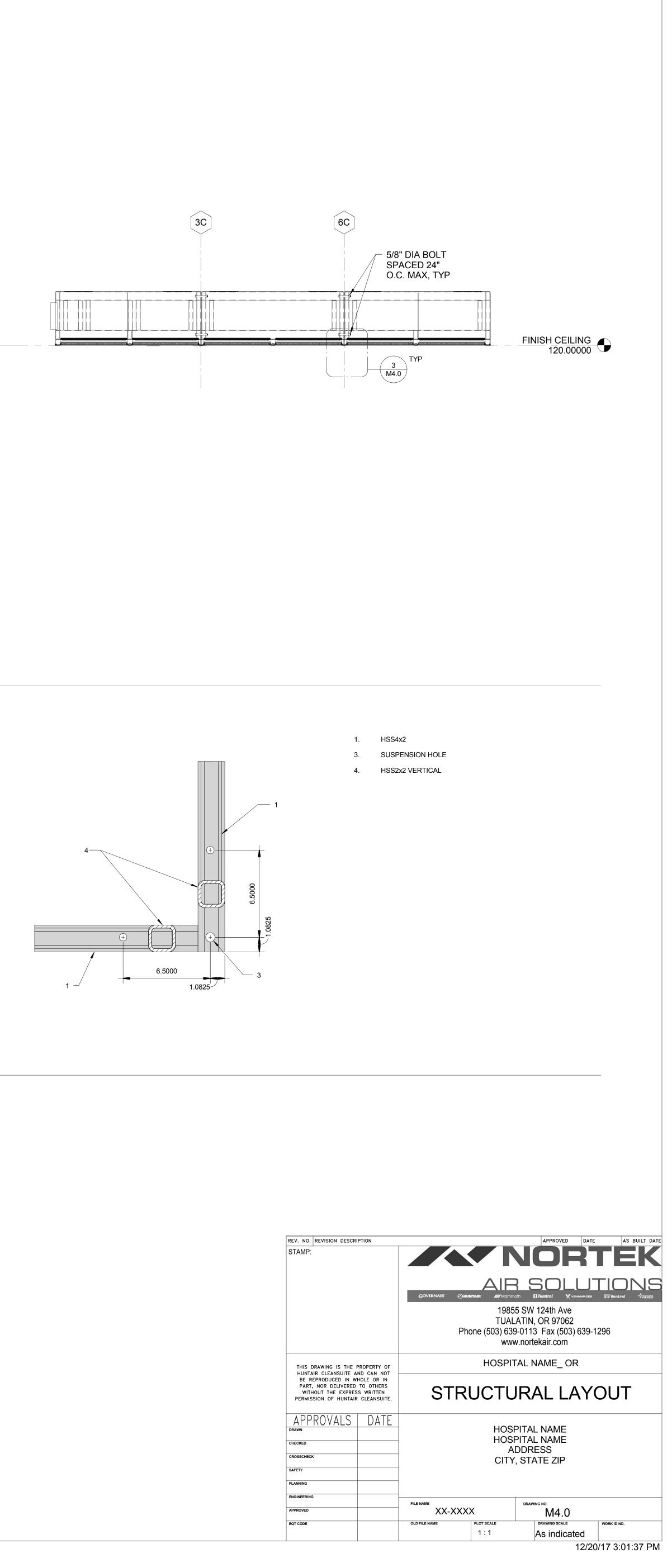
REV. NO. REVISION DESCRIPTION	APPROVED DATE AS BUILT DATE
	GOVERNAIR' OHUNTAIR' II Temtrol Vennances Ventrol
	19855 SW 124th Ave TUALATIN, OR 97062 Phone (502) 620 0112 Fey (502) 620 1206
	Phone (503) 639-0113 Fax (503) 639-1296 www.nortekair.com
THIS DRAWING IS THE PROPERTY OF HUNTAIR CLEANSUITE AND CAN NOT BE REPRODUCED IN WHOLE OR IN PART, NOR DELIVERED TO OTHERS WITHOUT THE EXPRESS WRITTEN	HOSPITAL NAME_ OR EQUIPMENT LAYOUT
PERMISSION OF HUNTAIR CLEANSUITE.	
DRAWN CHECKED	HOSPITAL NAME HOSPITAL NAME ADDRESS
CROSSCHECK SAFETY PLANNING	CITY, STATE ZIP
ENGINEERING APPROVED	FILE NAME DRAWING NO. M3.0
EQT CODE	OLD FILE NAME PLOT SCALE DRAWING SCALE WORK ID NO. 1:1 As indicated 12/20/17 3:01:32 PM
	12/20/17 3.01.32 FW

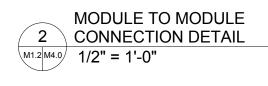


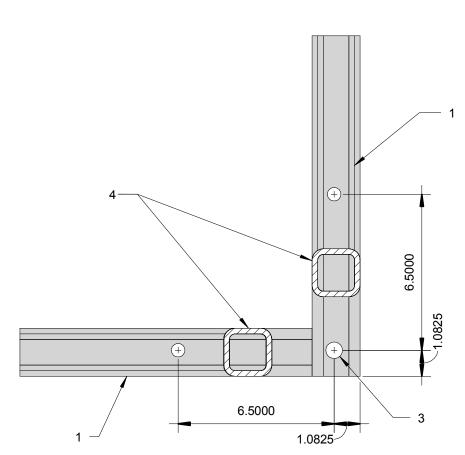
DO NOT SCALE DRAWING

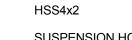
SEE PLAN AND KEY NOTES FOR CONNECTION HOLE DIAMETER AND LOCATIONS





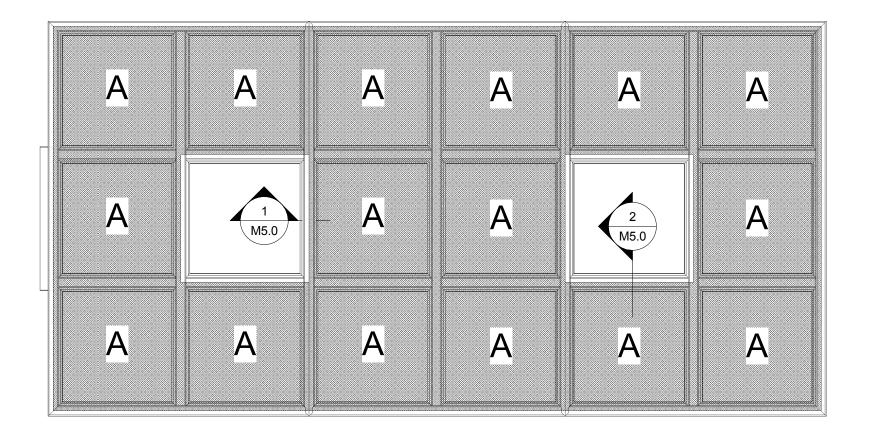




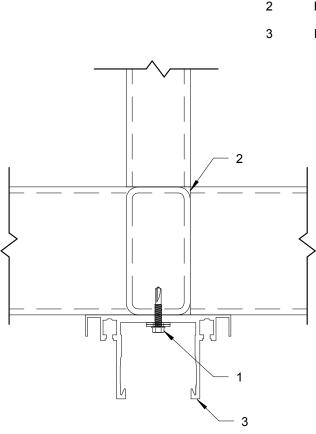


TRUSS CORNER SUSPENSION 5 POINT DETAIL M4.0 M4.0 3" = 1'-0"





5 GRID LAYOUT M5.0 1/2" = 1'-0"



1 TEK SCREW - ZINC PLATED

2 HSS4x2x1/4 - POWDER COATED PAINT

3 INTERIOR FLUSH MOUNT GRID - POWDER COATED PAINT

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

FULL SIZE DRAWING IS 30"x42" DO NOT SCALE DRAWING

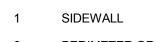
	Air Filter/ Diffuser Schedule									
Type Mark	Type Mark Count Description Model Manufacturer Comments									
A	A 16 DIFFUSER HUNTAIR									
Grand total:	Grand total: 16									

<u>SYSTEM SIZING</u>

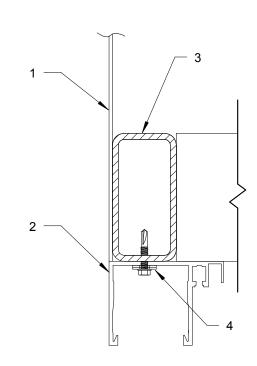
CFM: 2845 DIFA: 113.8 SF VELOCITY: 25 FPM

CFM: 3983 DIFA: 113.8 SF VELOCITY: 35 FPM

6 LIGHTING LAYOUT M5.0 1/2" = 1'-0"



- PERIMETER GRID 3 HSS4x2x1/4
- 4 TEK SCREW



TUBE TO GRID 2 ATTACHMENT-EXTERIOR M5.0 M5.0 1" = 1'-0"

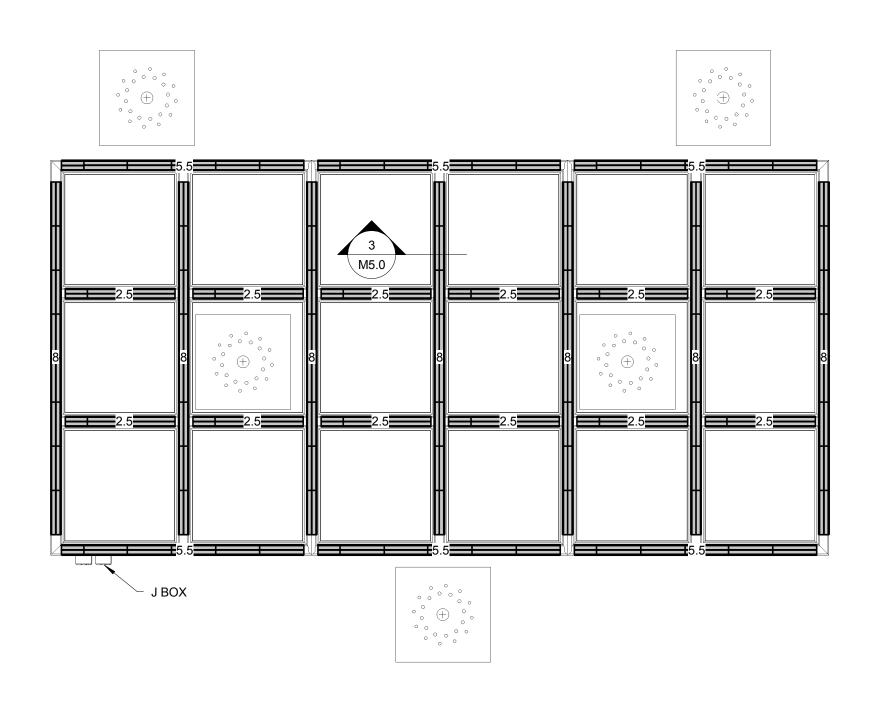
3 TYP LED LIGHTING DETAIL M5.0 M5.0 1/2" = 1'-0"

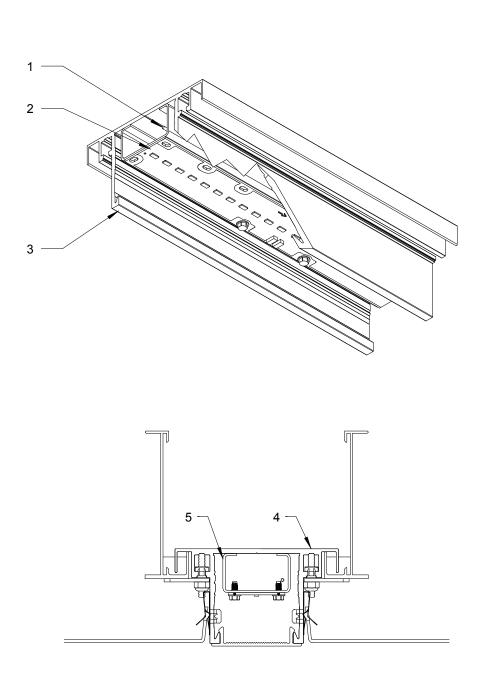
NOTE:

- 1. LED LENS IS CLEAR-DIFFUSER
- LIGHTING ON (2) CIRCUITS (PERIMETER AND INTERIOR)
 (2) J-BOXES PROVIDED PER CIRCUIT

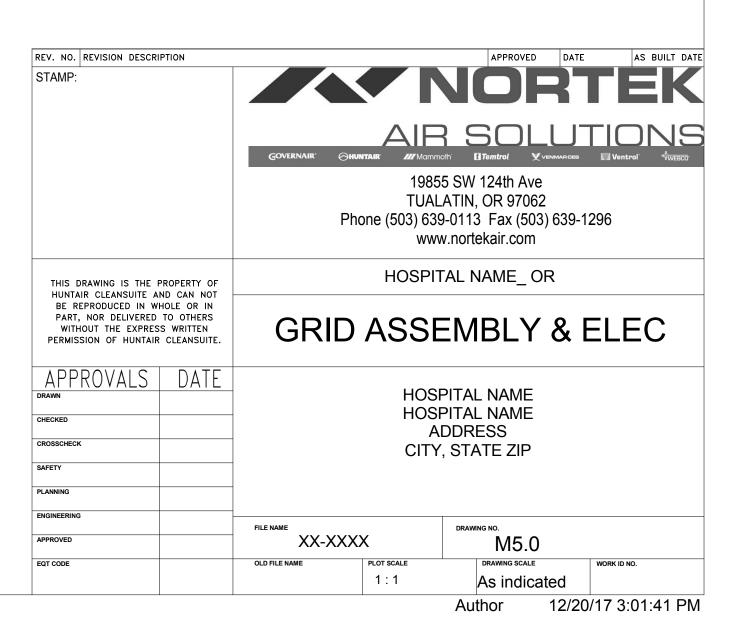
 (1) 120/277VAC POWER

 (1) 0-10V LED DIMMING CONTROL
- 4. PERIMETER WATTAGE = 332.0 INTERIOR WATTAGE = 474.3





- 1 LIGHT FIXTURE
- 2 LED STRIP
- 3 LENS CLIP IN EXTRUSION
- 4 2.6 BOTTOM LOAD GRID EXTRUSION 5 LED MOUNTING STRUT



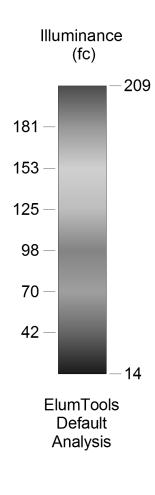
3. LOW VOLTAGE AND ELECTRICAL WIRING FOR BOOMS ARE WIRED DIRECTLY TO BOOM AND PROVIDED BY OTHERS

	• 2	• 29	• 35	• 40	• 46	• 51	• 55	• 56	● 56	• 55	• 53	• 48	•
	• 2	• 34	• 40	• 48	• 58	● 65	69	• 73	• 72	69	64	• 59	•
• 28	• 3	• 40	• 49	6 1	• 73	● 84	91	92	93	• 92	● 82	• 75	٠
• 31	• 3	• 46	● 60	• 76	• 94	• 107	• 113	• 120	• 119	• 115	• 106	• 92	•
● 33	• 4	a 51	● 72	● 89	1 09	1 29	138	1 46	1 47	1 37	126	• 112	•
• 34	• 4	● 56	• 77	• 99	• 118		190 193 ⁹⁵ ,93 199 190 198 198	198 202 202	2 200 209 199 199	196 198	• 135	• 120	•
• 33	• 4	● 55	• 74	• 100	117		 196 197 197 190 188 198 190 98 		1 208 202 201 203 9 203 198 198 199		• 132	119	•
• 31	• 3	• 49	6 4	• 87	• 103	126	• 135	• 140	• 135	1 34	• 121	• 109	•
• 28	• :	• 43	• 58	• 74	• 91	• 102	• 113	• 116	• 114	• 112	• 101	• 92	٠
• 25	• 2	• 35	• 46	• 57	68	• 77	● 84	● 87	● 86	● 85	• 78	• 71	•
• 21	• 2	• 29	• 36	• 44	• 51	• 59	64	67	66	63	60	• 55	•
• 18	• 2	• 23	• 27	• 34	• 42	• 46	• 50	• 52	• 52	• 51	• 47	• 43	•
• 15	• 1	• 19	• 21										
• 14	• 1	• 16	• 16										

 Manufacturer
 Model
 Count
 Total Light Loss Factor
 Luminaire Lument

 Huntair
 26-LED03-0.188-WOR-WPCL
 128
 0.91
 540 lm

1 LIGHTING CALCULATION M6.0 1/2" = 1'-0"



<u>G</u>	E	Ν	Ε	R/

1.	THESE RE
2.	LUMINAIR
3.	CALCULA
4.	EXTERNA
5.	SHARED L
6.	WALL LOC
7.	LIGHT LOS

CALCULATIONS DIFFERENCES IN TOLERANCES IN MEASUREMENT INPUT DATA US REFLECTANCES CALCULATIONS

		ategory Override	Category
9		\checkmark	
	v	Category	Type: Com
		V	Ceilings
		•	Floors
		\checkmark	Walls
[
			Project
		ł	HOSPITAL I
		ŀ	HOSPITAL I
L			

LIGHTING FIXTURE SCHEDULE

mens Wattage	Photometric File Data	OmniClass Number	OmniClass Title
	IESNA:LM-63-2002 (TESTIL85091 (TESTLAB]INDEPENDENT TESTING LABORATORIES, INC. (ISSUEDATE]07/14/15 (IMANUFAC]HUNTAIR CLEANPAK (LUMCAT26-LED03-0.188-WOR-WPCL (LUMINAIRE]EXTRUDED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR (MORE]FINISH, FABRICATED SEMI-SPECULAR METAL CIRCUIT BOARD MOUNT, 1 (MORE]WHITE CIRCUIT BOARD WITH 22 LEDS, EXTRUDED TRANSLUCENT LINEAR (MORE]PRISMATIC PLASTIC LENS. LENS PRISMS IN AND PARALLEL WITH LENGTH (MORE]WHITE CIRCUIT BOARD WITH 22 LEDS, EXTRUDED TRANSLUCENT LINEAR (MORE]PTY-TWO WHITE MULT-CHIP LIGHT EMITTING DIODES (LEDS), (MORE]VERTICAL BASE-UP POSITION. (LAMP]TWENTY-TWO WHITE MULT-CHIP LIGHT EMITTING DIODES (LEDS), (MORE]VERTICAL BASE-UP POSITION. (LOTE]THIS REPORT WAS PRORATED FROM ITL TEST NUMBER 80138 WHICH WAS (MORE]VERTICAL BASE-UP POSITION. (LOTE]THIS REPORT WAS PRORATED FROM ITL TEST NUMBER 80138 WHICH WAS (MORE]VERTICAL BASE-UP POSITION. (LOTE]THIS REPORT WAS PROCEDURE: IESNA LM-79-08 (IOTHER]TEST PROCEDURE: IESNA LM-79-08 (IOTHER]TEST DISTANCE = 35.0 FEET (ABSOLUTELUMENS]540 TILT=NONE 22 - 11 37 5 1 1 0.20833 0.973958 0.005208 11 0 0 2.5 5 7.5 10 12.5 15 17.5 20 22.5 25 27.5 30 32.5 35 37 5 40 42.5 45 47.5 50 52.5 55 57.5 00 62.5 6 57.7 50 80 25.5 85 87.5 90 0 22.5 45 67.5 90 0 22.5 45 67.5 90 0 22.5 45 67.5 90 0 22.5 45 67.5 90 0 22.5 45 57.5 00 25 7 7 88 05 34 53 73 02 32 17 11 6 2 0 228 228 227 225 222 219 216 211 206 200 194 187 180 172 164 155 146 138 129 120 111 10 29 35 77 68 06 53 45 33 73 02 32 17 11 6 2 0 228 228 227 225 222 219 216 211 206 200 194 187 180 172 164 155 146 138 129 120 111 10 29 36 77 68 06 53 45 33 33 22 17 161 61 57 148 140 131 123 114 106 97 89 82 74 66 59 52 45 38 33 22 52 015 11 8 5 228 227 225 223 212 127 213 208 202 195 188 181 173 173 165 157 148 140 131 123 114 106 97 89 82 77 06 35 64 94 33 73 12 52 01 51 11 8 5 228 227 225 223 219 215 210 204 198 190 183 175 166 157 148 140 131 123 114 106 97 89 82 77 06 35 64 94 33 73 12 52 01 51 11 8 5 228 227 225 223 219 215 210 204 198 190 183 175 166 158	23.80.70.11	Luminaries for Internal Lighting

RAL NOTES

RESULTS ARE ESTIMATED.

IRE HEIGHT : 10 FT

ATION GRID HEIGHT ABOVE THE FLOOR: 3 FT (STANDARD TABLE HEIGHT)

NAL LIGHTING NOT INCLUDED.

D LIGHT IS NOT INCLUDED.

OCATIONS ARE APROXIMATE.

OSS FACTOR: 0.91

8. ONLY DIRECT LIGHT IS CALCULATED.

DISCLAIMER

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 Ma	terial Properties			
jory Name 🔺	Category Type	Surface Type	Color	Reflectance	Transmittance	Mesh Level	Color Bleed	Luminance	Luminaire Luminous	
	-	-		÷	÷	-				
Common (3)										
gs	Common	Dpaque, 1-sided		0.80	0.00	0 (Default)	1.00	0		
3	Common	Dpaque, 1-sided		0.40	0.00	0 (Default)	1.00	0	1	
	Common	Dpaque, 1-sided		0.70	0.00	0 (Default)	1.00	0	V	

ElumTools General Use Illuminance Results

ect Name	Project Number	Calculation Points Name	Average	Minimum	
AL NAME_ OR	XX-XXXX	STERIS 5085 General Surgical Table	199 fc	188 fc	
AL NAME_ OR	XX-XXXX	CVOR 1	70 fc	14 fc	

STAMP:		GOVERNAIR [.]
THIS DRAWING IS THE I HUNTAIR CLEANSUITE A BE REPRODUCED IN W	ND CAN NOT	
PART, NOR DELIVERED WITHOUT THE EXPRES PERMISSION OF HUNTAIR	TO OTHERS S WRITTEN	LIG
APPROVALS	DATE	
CHECKED		
CROSSCHECK		
SAFETY		
PLANNING		
APPROVED		FILE NAME
EQT CODE		OLD FILE NAME

REV. NO. REVISION DESCRIPTION

Specularity (Raytrace Only)	Glossiness (Raytrace Only)		
0.00	0.00		
0.00	0.00		
0.00	0.00		
Maxim	um		
209 f	С		
2091			

