## **VOLUME ISSUE: 01 OF: 01**



11/30/2022 1:25:28 PM

## **CONSTRUCTION DOCUMENTS**

Original Issuance:

Issue Date:





2901 Blake Street, Suite 100 Denver, CO 80205 303.861.8555





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## **GENERAL NOTES**

- 1. IF DISCREPANCIES OCCUR BETWEEN DRAWINGS OR BETWEEN THE DRAWINGS AND SPECIFICATIONS, SUBMIT AN RFI FOR RESOLUTION.
- 2. DO NOT SCALE THE DRAWINGS. SUBMIT AN RFI IF CRITICAL DIMENSIONS DO NOT APPEAR ON THE DRAWINGS.
- 3. THE BUILDING EXTERIOR IS DEFINED BASED ON A SYSTEMS METHODOLOGY. REFER TO A-700 DRAWING SERIES FOR COMPONENTS THAT COMPRISE EACH
- SYSTEM. 4. PROVIDE ISOLATION BETWEEN ALL DISSIMILAR METALS WHERE THEY OCCUR TO PREVENT ELECTROLYTIC REACTION AND CORROSION. 5. VERIFY EQUIPMENT ROUGH-IN DIMENSIONS WITH MANUFACTURER FOR

## EQUIPMENT THAT IS EXISTING, REUSED, OR FURNISHED BY OWNER.

### DEFINITIONS

LIGN	TO ACCURATELY LOCATE FACE BASED ON ADJACENT ITEMS OR CONSTRUCTION
IAXIMUM	THE CONDITION MAY NOT VARY TO A DIMENSION GREATER THAN THAT SHOWN WITHOUT THE APPROVAL OF THE ARCHITECT

MINIMUM	THE CONDITION MAY NOT VARY TO A DIMENSION SMALLER THAN THAT SHOWN WITHOUT THE APPROVAL OF THE ARCHITECT
TYPICAL	THE CONDITION APPLIES TO SAME CONDITIONS THROUGHOUT UNLESS NOTED OTHERWISE

## STANDARD ARREVIATIONS I ECEND

ACT	
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ALT	ALTERNATE
APPROX	APPROXIMATE(LY)
ARCH	ARCHITECT or ARCHITECTURAL
ASI	ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS
BSMT	BASEMENT
BTWN	BETWEEN
CD	CONSTRUCTION DOCUMENTS or CONTRACT DOCUMENTS
CJ	CONSTRUCTION JOINT or CONTROL JOINT
CLG	CLEAR
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
	CORRIDOR
	DEMOLISH or DEMOLITION
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION or DIMENSIONAL
DWG	DRAWING
EA	EACH
EJ	EXPANSION JOINT
ELEC	ELECTRIC(AL)
	ELEVATOR
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	
EXIST	ELECTRIC WATER COULER EXISTING
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	
FEC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
GA	GAUGE
GALV	GALVANIZED
	HOSE BIBB HORIZONTAI
HT	HEIGHT
HVAC	HEATING, VENTILATION and AIR CONDITIONING
IBC	INTERNATIONAL BUILDING CODE
JAN IT	JANITOR
L	ANGLE
MAX	MAXIMUM
MECH	MECHANICAL
MEP ME77	
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
NIC	NOT APPLICABLE
NO.	NUMBER
NOTE:	FOR ADDITIONAL ABBREVATIONS; REFER TO SPECIFICATION 01 4200 FOR
NRC	
NTS	NOT TO SCALE
00	ON-CENTER
	OPENING OPPOSITE
PERIM	PERIMETER
PR	PAIR or PROPOSAL REQUEST
PSF	POUNDS PER SQUARE FOOT
PSI PT	POUNDS PER SQUARE INCH PAINT(ED) POST-TENSIONED SI AR or PRESSURE TREATED
QTY	QUANTITY
R	RADIUS, RISER or THERMAL RESISTANCE
RCP	REFLECTED CEILING PLAN
RE	REFER TO or REFERENCE
REV	REVISE, REVISED or REVISION
RM	ROOM
KU ROW	RUUGH OPENING RIGHT-OF-WAY
RTU	ROOFTOP UNIT
SAN	SANITARY
SF	SQUARE FOOT (FEET)
SIM	SIMILAR
SPEC	SPECIFICATION(S)
SQ	SQUARE
STC	SOUND TRANSMISSION CLASS
STOR	STORAGE
TO	TOP OF
ТОС	TOP OF CONCRETE
TOP	
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VIF W/	VERIFY IN FIELD
W/O	WITHOUT
WD	WOOD
WP	WORKING POINT
VVI	WEIGHT

WT

## ARCHI

## WALL SI REFERE

### INTERIC REFERE

## DETAIL

## DIMENS

## GRID LA

### EXTERIO \_\_\_\_\_

### CURTAIN \_\_\_\_\_ STOREF

### \_\_\_\_\_ ROOM T

### CEILING \_\_\_\_\_ FINISH

### KEYNOT TYPE 1 \_\_\_\_\_

## AND TA

### 0'

ARCHITECTURAL SYMB	OLS LEGEND	
BUILDING SECTION REFERENCE	# X.###	# X-###
WALL SECTION REFERENCE	# X-###	
DETAIL ELEVATION REFERENCE	# X-###	
INTERIOR ELEVATION REFERENCE	(# <u>\</u> #) #	
EXTERIOR ELEVATION REFERENCE	# X-#### #	
DETAIL CALLOUT	# TYP. X-###	
DIMENSION STRING		8'-2"
CENTERLINE	G	
GRID LABEL - NEW	#	
GRID LABEL - EXISTING	#	
ELEVATION LABEL		1
EXTERIOR SYSTEM TAG	PWS_MET_2.1	
INTERIOR PARTITION TYPE TAG	G Fn2PX —	-
WINDOW TAG	W#	
CURTAIN WALL TAG	C#	
STOREFRONT TAG	S#	
SPOT ELEVATION	EL = 10	00'-0"
DOOR TAG	(####X)	
ROOM TAG	ROOM NAME	
AREA TAG	AREA NAME 150 SF	
CEILING HEIGHT TAG	(10'-10")	
FINISH TAG	XX#	
VIEW REFERENCE	1 / A-101	
KEYNOTE AND LEADER- TYPE 1	(F15)	
KEYNOTE AND LEADER- TYPE 2	07 2700 - SHEET - WATERPROOFING	3
REVISION CLOUD AND TAG		
NORTH ARROW	N	
GRAPHIC SCALE		
0' 4' 8'	16'	SCALE: 1/8" = 1'- 32'
DETAIL NUMBERING BATTLESHIP GRID ORDER		
F		
E		-
D		-
c		SHADED DETAIL LOCATION WOULD BE NUMBERED "A2" ON

1 2 3 4 5 6

THE DETAIL SHEET

Location Map

TO VERN



Project Team

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Consultant(s)

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CONSTRUCTION DOCUMENTS	11/30/2	2022
Revisions	Date	No.

Project Information







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## A3 LEVEL 1 - FGI ANALYSIS FLOOR PLAN





SS PATH OF TRAVEL SUMMARY - LEVEL 01								
NGTH	MIN. EX SEPARAT	IT ION	MAX. COMMON PATH		MAX DEADE CORRIE	(. END DOR	MAX DIS	TRAVEL
7' - 0"		0"		0"		20'-0"		0"
STAN	CE							
36' - 9"	20	0'-0"		0"		0"		200'-0"
98' - 4"	20	0'-0"		0"		0"		200'-0"
EXIT CAPACITY TABLE - LEVEL 01								
OR TOR	DOOR CAPACITY (WIDTH / FACTOR)	STAIR WIDTH	STAIR FACTOR	CA (V FA	STAIR PACITY VIDTH / ACTOR)	EX CAPA	IT CITY	ACTUAL OCC. LOAD
.250"	384	96"	0.199"		481		384	44
								44

UPANT LOAD SUMMARY - LEVEL 01					
CTION OF SPACE	OCC. LOAD	AREA			
TABLES & CHAIRS	85	1,268 SF			
)'D	0	7,804 SF			
IENT AREAS	143	14,250 SF			
IG AREAS	56	6,425 SF			
	284	29,748 SF			

LIFE SAFETY LEC	GEND		F	IRE RATE
FIRE SAFETY COMPONENT	<b>S</b> (COORDINATE FINAL LOCATION(S) WITH L	OCAL FIRE DEPARTMENT)		
	R CABINET		F (B	IRE BARRIER
EGRESS COMPONENTS				HORIZONTAL
	-		ODIFIERS	MODIFIER (H)
EA## EXIT ACCESS TRAVEL D			ATING M	SMOKE PARTI
	<b>~</b> .		SMOKE F	SMOKE BARRI
<b>k</b>	·····•		FIRE	WALL RESISTI PASSAGE OF
<b>DE1</b> = 15'-0" < 20'	MAX.		TED	NEW WALL
	1		NON-RA	EXISTING WAL (HALFTONE)
0 EXIT ACCESS (OCCUPANT LOAD)	0 EXIT DISCHARGE (OCCUPANT LOAD)		(i 	<sup>IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</sup>
			(	
				SECTION 716.1.2
			(	<sup>e)</sup> <b>IBC 716.2.1.4</b> -

5	

PROJECT DESCRIPTION: THIS PROJECT IS A IN RANGELY, COLO A SURGERY DEPAR EXISTING PROCEDU CLEAN STORAGE A PUBLIC TOILET, CL	2,012 SF RENOVATI RADO. TO UPGRAD TMENT. THE RENOV JRE ROOM TO A 400 ND A HOUSEKEEPIN EAN UTILITY, OFFIC	ON TO RANGELY DISTRICT HOSPITAL E THE EXISTING PROCEDURE SUITE TO /ATIONS INCLUDE ENLARGING THE 9 SF OPERATING ROOM, ADDING NG CLOSET, AND RELOCATING A E AND A HOUSEKEEPING CLOSET.	
APPLICABLE BUILDING CODES:			
APPLICABLE BUILDING CODES:2021INTERNATIONAL BUILDING CODE2021INTERNATIONAL ENERGY CONSERVATION CODE2021INTERNATIONAL MECHANICAL CODE2018INTERNATIONAL FUEL GAS CODE2018INTERNATIONAL PLUMBING CODE2020NATIONAL ELECTRICAL CODE2021INTERNATIONAL FIRE CODE2017ICC/ANSI A117.1 ACCESSIBILITY STANDARD2012NFPA 1012018FACILITY GUIDELINES INSTITUTE			
	IBC (2021)	NFPA (2012)	
CONSTRUCTION TYPE:	I-B (EXISTING)	1-332	
OCCUPANCY CLASSIFICATION:	1-2	EXISTING HEALTHCARE	
	FULLY SPRINKLER		
MAX. TRAVEL DISTANCE ALLOWED TO EXIT:	200 FEET (407.5.2,	TABLE 1017.2)	
	2 (1000.2)		
EXISTING FIRE RESISTIVE REQUIREMENTS TO BE MAINTAINED: (RESTRAINED / UNRESTRAINED)			
CONSTRUCTION (TYPE 1B)	IBC RATING		
STRUCTURAL FRAME	2 HOURS		
EXTERIOR BEARING WALLS	2 HOURS		
	2 HOURS		
ROOF CONSTRUCTION & CANOPY			
	11001		



BXUV.U	419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ https://	/iq.ulprospector.com/en/profile?e=14979	ВХ
	UL Product <b>iQ</b> ®	Solutions	
	BXUV.U419 - Fire-resistance Ratings - AN	SI/UL 263	
	<ul> <li>Design/System/Construction/Assembly Usage Disclaimer</li> <li>Authorities Having Jurisdiction should be consulted in all cases as to the particular requirement and use of UL Certified products, equipment, system, devices, and materials.</li> <li>Authorities Having Jurisdiction should be consulted before construction.</li> <li>Fire resistance assemblies and products are developed by the design submitter and have been compliance with applicable requirements. The published information cannot always address ex- encountered in the field.</li> <li>When field issues arise, it is recommended the first contact for assistance be the technical serv product manufacturer noted for the design. Users of fire resistance assemblies are advised to or Information for each product category and each group of assemblies. The Guide Information in alternate materials and alternate methods of construction.</li> <li>Only products which bear UL's Mark are considered Certified.</li> </ul>	nts covering the installation investigated by UL for very construction nuance rice staff provided by the consult the general Guide ncludes specifics concerning	
	Fire-resistance Ratings - ANSI/UL 263 BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for U BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances	Jnited States for Canada	
	Design Criteria and Allowable Variances		
	September 5, 2022		
	Nonhearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5	D	
	* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions emp Certification (such as Canada), respectively.	bloying the UL or cUL	
1 of 14		10/17/2022, 15:27	2
1 of 14		10/17/2022, 15:27	2 (
1 of 14 BXUV.U	<ul> <li>J419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ</li> <li>Patron 28. Framing Members* - Steel Studs — (As an alternate to Item 2, For use with Items 5C, 51 or Type shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly</li> </ul>	10/17/2022, 15:27 //iq.ulprospector.com/en/profile?e=14979 ULIX) — Proprietary channel r height and installed with a	2 d B
1 of 14 BXUV.U	J419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ https: 28. Framing Members* - Steel Studs — (As an alternate to Item 2, For use with Items 5C, 5I or Type shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25 <sup>™</sup> CRACO MFG INC — SmartStud25 <sup>™</sup>	10/17/2022, 15:27 //iq.ulprospector.com/en/profile?e=14979 ULIX) — Proprietary channel height and installed with a gypsum board only.	2 с
1 of 14 BXUV.U	J419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ       https:         28. Framing Members* - Steel Studs — (As an alternate to Item 2, For use with Items 5C, 5I or Type shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™         CRACO MFG INC — SmartStud25™       MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™         IMPERIAL MANUFACTURING GROUP INC — Viper25™	10/17/2022, 15:27 //iq.ulprospector.com/en/profile?e=14979 ULIX) — Proprietary channel height and installed with a gypsum board only.	2 с
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1 of 14 BXUV.U	J419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ       https:         28. Framing Members* - Steel Studs — (As an alternate to Item 2, For use with Items 5C, 5I or Type shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™         CRACO MFG INC — SmartStud25™       MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™         IMPERIAL MANUFACTURING GROUP INC — Viper25™       IMPERIAL MANUFACTURING GROUP INC — Viper25™         2C. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel sha indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs lengths than assembly heights.         CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™	10/17/2022, 15:27 //iq.ulprospector.com/en/profile?e=14979 ULIX) — Proprietary channel height and installed with a gypsum board only.	B
1 of 14 BXUV.U	J419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ       https:         28. Framing Members* - Steel Studs — (As an alternate to Item 2, For use with Items 5C, 5I or Type shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25 <sup>™</sup> CRACO MFG INC — SmartStud25 <sup>™</sup> MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25 <sup>™</sup> IMPERIAL MANUFACTURING GROUP INC — Viper25 <sup>™</sup> IMPERIAL MANUFACTURING GROUP INC — Viper25 <sup>™</sup> 2C. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel sha indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs lengths than assembly heights.         CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20 <sup>™</sup> MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20 <sup>™</sup> MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20 <sup>™</sup>	10/17/2022, 15:27 //iq.ulprospector.com/en/profile?e=14979 ULIX) — Proprietary channel height and installed with a gypsum board only. ped steel studs, min depth as a cut 3/8 in. to 3/4 in. less in	В
1 of 14 BXUV.U	<ul> <li>1/419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ https:</li> <li>28. Framing Members* - Steel Studs — (As an alternate to Item 2, For use with Items 5C, 5I or Type shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of CALFORNIA EXPANDED METAL PRODUCTS CO — Viper25<sup>w</sup></li> <li>CRACO MFG INC — SmartStud25<sup>w</sup></li> <li>MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25<sup>w</sup></li> <li>IMPERIAL MANUFACTURING GROUP INC — Viper25<sup>w</sup></li> <li>2C. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel sha indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs lengths than assembly heights.</li> <li>CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20<sup>wi</sup></li> <li>MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20<sup>wi</sup></li> <li>MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20<sup>wi</sup></li> <li>2D. Framing Members* — Steel Studs — In lieu of Item 2 — Channel shaped studs, min depth as in a wax of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.</li> </ul>	10/17/2022, 15:27 //iq.ulprospector.com/en/profile?e=14979 ULIX) — Proprietary channel height and installed with a gypsum board only. ped steel studs, min depth as a cut 3/8 in. to 3/4 in. less in	B
1 of 14 BXUV.U	J419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ       https:         28. Framing Members* - Steel Studs — (As an alternate to Item 2, For use with Items 5C, 5I or Type shaped studs, 3-5/8 in, deep spaced a max of 24 in, OC. Studs to be cut 3/4 in less than the assembly 1/2 in, gap between the end of the stud and track at the bottom of the wall. For direct attachment of CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25 <sup>tw</sup> CRACO MFG INC — SmartStud25 <sup>tw</sup> MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25 <sup>tw</sup> IMPERIAL MANUFACTURING GROUP INC — Viper25 <sup>tw</sup> IMPERIAL MANUFACTURING GROUP INC — Viper25 <sup>tw</sup> 2C. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel sha indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in, thick galv steel. Studs lengths than assembly heights.         CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20 <sup>tw</sup> MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20 <sup>tw</sup> MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20 <sup>tw</sup> IMPERIAL MANUFACTURING GROUP INC — Viper20 <sup>tw</sup> IMPERIAL MANUFACTURING GROUP INC — Viper20 <sup>tw</sup> 2D. Framing Members* — Steel Studs — In lieu of Item 2 — Channel shaped studs, min depth as in a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.         ALLSTEL & GYPSUM PRODUCTS INC — Type SUPREME D20/30CQD and Type SUPREME D20         CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D20/30EQD and Type SUPREME D20         CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D20 <td>10/17/2022, 15:27 //iq.ulprospector.com/en/profile?e=14979 ULIX) — Proprietary channel height and installed with a gypsum board only. ped steel studs, min depth as s cut 3/8 in. to 3/4 in. less in</td> <td>В</td>	10/17/2022, 15:27 //iq.ulprospector.com/en/profile?e=14979 ULIX) — Proprietary channel height and installed with a gypsum board only. ped steel studs, min depth as s cut 3/8 in. to 3/4 in. less in	В
1 of 14 BXUV.U	<ul> <li>1419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ https:</li> <li>28. Framing Members* - Steel Studs — (As an alternate to Item 2, For use with Items 5C, 5I or Type shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25<sup>W</sup></li> <li>CRACO MFG INC — SmartStud25<sup>IM</sup></li> <li>MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25<sup>W</sup></li> <li>IMPERIAL MANUFACTURING GROUP INC — Viper25<sup>W</sup></li> <li>2C. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel sha indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs lengths than assembly heights.</li> <li>CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20<sup>W</sup></li> <li>MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20<sup>W</sup></li> <li>IMPERIAL MANUFACTURING GROUP INC — Viper20<sup>W</sup></li> <li>2D. Framing Members* — Steel Studs — In lieu of Item 2 — Channel shaped studs, min depth as in a max of 24 in. OC. Studs to be cut 3/4 in less than assembly height.</li> <li>ALLISTEL &amp; GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D24</li> <li>CONSOLIDATED FABRICATORS CORP. BUILDING PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D24</li> <li>SCAFCO STELL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20</li> <li>SCAFCO STELL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20</li> <li>STEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20</li> </ul>	10/17/2022, 15:27 //iq.ulprospector.com/en/profile?e=14979 ULIX) — Proprietary channel height and installed with a gypsum board only. ped steel studs, min depth as s cut 3/8 in. to 3/4 in. less in ndicated under Item 5, spaced	В
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1 of 14 BXUV.U	J419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ       https:         28. Framing Members* - Steel Studs — (As an alternate to Item 2, For use with Items SC, SI or Type shaped studs, 3-5/8 in, deep spaced a max of 24 in. OC, Studs to be cut 3/4 in less than the assembly 1/2 in gap between the end of the stud and track at the bottom of the wall. For direct attachment of CALITORNIA EXPANDED METAL PRODUCTS CO — Viper25"         CRACO MFG INC — SmartSud25"       MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25"         IMPERIAL MANUFACTURING GROUP INC — Viper25"       IMPERIAL MANUFACTURING GROUP INC — Viper25"         20. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel sha indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs lengths than assembly heights.         CALIFORNIA EXPANDED METAL RRODUCTS CO — Viper20"         MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20"         IMPERIAL MANUFACTURING GROUP INC — Viper20"         20. Framing Members* — Steel Studs — In lieu of Item 2 — Channel shaped studs, min depth as in a max of 24 in. OC, Studs to be cut 3/4 in. less than assembly height.         21. Status of 24 GPUS PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20         22. Framing Members* — Steel Studs — In lieu of Item 2 — Channel shaped studs, min depth as in a max of 24 in. OC, Studs to be cut 3/4 in. less than assembly height.         22. Status of 24 GPUS PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20         CONSOLIDATED FABRICATORS CORP. BUILDING PRODUCTS DIV — Type SUPREME D20         SCA	<pre>//iq.ulprospector.com/en/profile?e=14979 //iq.ulprospector.com/en/profile?e=14979 ULIX) — Proprietary channel height and installed with a gypsum board only.  ped steel studs, min depth as s cut 3/8 in. to 3/4 in. less in  dicated under Item 5, spaced SUPREME D20 ms SF or 5G or 5I or Type ULIX 5 in. (min bare metal ht.</pre>	В
1 of 14	2419 - Fire-resistance Ratings - ANSI/UL 263 [ UL Product iQ       https:         28. Framing Members* - Steel Studs — (As an alternate to Item 2, For use with Items 5C, 5I or Type shaped studs, 3-5/8 in, deep spaced a max of 24 in. OC. Studs to be out 3/4 in less than the assembly 1/2 in.gap between the end of the stud and track at the bottom of the wall. For direct attachment of CALIFORNA ERANDED METAL PRODUCTS ICO — Viper25**         CRACO MFG INC — SmartStud25***       MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25**         2C. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel sha indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs lengths than assembly heights.         CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20**         MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20**         ZD. Framing Members* — Steel Studs — In lieu of Item 2 — Channel shaped studs, min depth as inf a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.         ALISTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D24/30EQD and Type SUPREME D20         CONSOLIDED FABRICATORS CORP. BUILDING PRODUCTS DU — Type SUPREME D24/30EQD and Type SUPREME D20         STELL CONSTRUCTION SYSTEMS INC — Type SUPREME D24	10/17/2022, 15:27 //iq.ulprospector.com/en/profile?e=14979 ULIX) — Proprietary channel height and installed with a gypsum board only. ped steel studs, min depth as s cut 3/8 in. to 3/4 in. less in endicated under Item 5, spaced SUPREME D20 ms 5F or 5G or 5I or Type ULIX is in. (min bare metal ht.	В
1 of 14 BXUV.U	2419 - Fire-resistance Ratings - ANSI/UL 263   UL Product IQ       https:         28. Framing Members* - Steel Studs (As an alternate to Item 2, For use with Items 5C, 5I or Type shaped studs, 33-56 in, deep spaced a max 0 24 in, OC. Studs to be cut 3/4 in less than the assembly V12 in, gap between the end of the stud and track at the bottom of the wall. For direct attachment of CALFORNIA EXPANDED METAL PRODUCTS CO Viper25**         CRACO MFG INC SmartStud25**       MARINO/WARE, DIV OF WARE INDUSTRIES INC Viper25**         2C. Framing Members* Steel Studs Not Shown In lieu of Item 2 proprietary channel sha indicated under Item 5, spaced a max 172 in. OC, fabricated from min 0.018 in. thick galv steel. Studs lengths than assembly heights.         2C. Framing Members* Steel Studs Not Shown In lieu of Item 2 proprietary channel sha indicated under Item 5, spaced a max 172 in. OC, fabricated from min 0.018 in. thick galv steel. Studs lengths than assembly heights.         CALFORNIA EXPANDED METAL PRODUCTS CO Viper20**         MARINO/WARE, DIV OF WARE INDUSTRIES INC Viper20**         MARINO/WARE, DIV OF WARE INDUSTRIES INC Viper20**         MARINO/WARE, DIV OF WARE INDUSTRIES INC Viper20**         2D. Framing Members* Steel Studs In lieu of Item 2 Channel shaped studs, min depth as in a max 0124 in. OC. Studs to be cut 3/4 in. less than assembly height.         ALISTEEL & GYPSUM PRODUCTS INC Type SUPREME D2/30EQD and Type SUPREME D2/30EQD and Type SUPREME D2/30EQD and Type SUPREME D20         CONSOLDATED FABRICATORS CORP, BUILDING PRODUCTS DU Type SUPREME D2/30EQD and Type SUPREME D20         STEE	<pre>//iq.ulprospector.com/en/profile?e=14979 ULIX) — Proprietary channel height and installed with a gypsum board only. ped steel studs, min depth as s cut 3/8 in. to 3/4 in. less in adicated under Item 5, spaced SUPREME D20 ms 5F or 5G or 5I or Type ULIX 5 in. (min bare metal ht. ped steel studs, minimum galvanized steel. Studs 3/8 in.</pre>	В
1 of 14 BXUV.U	Al 9 - Fire-resistance Ratings - ANSI/UL 263 [UL Product iQ       https://dx.alue.org/alu	10/17/2022, 15:27         //iq.ulprospector.com/en/profile?e=14979         ULIX) — Proprietary channel 'height and installed with a gypsum board only.         ped steel studs, min depth as s cut 3/8 in. to 3/4 in. less in         ndicated under Item 5, spaced         SUPREME D20         ms SF or 5G or 5I or Type ULIX 5 in. (min bare metal ht.         ped steel studs, minimum galvanized steel. Studs 3/8 in.	В



Floor and Ceiling Runners — (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosionvtected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 DC max.

Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary nnel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

**IFORNIA EXPANDED METAL PRODUCTS CO** — Viper25<sup>™</sup> Track

ACO MFG INC — SmartTrack25™ RINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track

ERIAL MANUFACTURING GROUP INC — Viper25<sup>™</sup> Track

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icated under Item 5, Studs to be cut 3/8 to 3/4 in less than the assembly height. JDCO BUILDING SYSTEMS — CROCSTUD

Framing Members\* — Steel Studs — (Not Shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare etal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. LING INDUSTRIES L L C — TRUE-STUD™

Framing Members\* — Steel Studs —

2

Framing Members\* — Metal Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as icated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in gths than assembly heights

Framing Members\* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from n 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 less than assembly height. METAL INC — NITROSTUD

Framing Members\* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from n 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 less than assembly height. MAR SUPPLY INC — PRIMESTUD

. Framing Members\* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from n 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 less than assembly height. RINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

I. Framing Members\*— Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min depth 3-1/2 in. as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. is in length than assembly height. **SCUE METAL FRAMING, L L C** — AlphaSTUD

. Framing Members\* — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as icated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max. NDO BUILDING SERVICES PTY LTD — Rondo Lipped Wall Stud

Framing Members\* — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as icated under Item 5, min 25 MSG galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. **G BUILDING MATERIALS** — OEG Stud

3

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1B. Framing Members\* — Floor and Ceiling Runner — Not Sho channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated ceiling with fasteners spaced 24 in. OC max. CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20<sup>™</sup> Track MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20<sup>™</sup> Track IMPERIAL MANUFACTURING GROUP INC — Viper20<sup>™</sup> Track

4

1C. Framing Members\* — Floor and Ceiling Runners — (Not Sh and ceiling with fasteners 24 in. OC. max. ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD a CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV -QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30 STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD a TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SU **UNITED METAL PRODUCTS INC** — Type SUPREME D24/30EQD and Type

1D. Floor and Ceiling Runners — (Not Shown) — For use with Ite corrosion-protected or galv steel, min depth to accommodate stud fasteners spaced max 24 in. OC.

1E. Framing Members\* — Floor and Ceiling Runners — (Not Sh 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min l ceiling with fasteners 24 in. OC. max. **CLARKDIETRICH BUILDING SYSTEMS** — CD ProTRAK

DMFCWBS L L C — ProTRAK MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK **STEEL STRUCTURAL PRODUCTS L L C** — Tri-S ProTRAK

1F. Framing Members\* — Floor and Ceiling Runner — Not Show channel shaped runners, minimum width to accommodate stud siz bare metal thickness) galv steel, attached to floor and ceiling with SUPER STUD BUILDING PRODUCTS — The Edge

1G. Framing Members\* — Floor and Ceiling Runner — For use width to accommodate stud size attached to floor and ceiling with STUDCO BUILDING SYSTEMS — CROCSTUD Track

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2Q. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 10, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X

3. Wood Structural Panel Sheathing — (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.

4. Batts and Blankets\* — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

4A. Batts and Blankets\* — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

4B. Fiber, Sprayed\* — (Optional, for use with Type ULIX) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ). AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

4C. Foamed Plastic\* — (Where Batts and Blankets\*, Item 4, are optional, for use with Item 5K) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in.

CARLISLE SPRAY FOAM INSULATION — Types SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

4D. Foamed Plastic\* — (Where Batts and Blankets\*, Item 4, are optional, for use with Item 5L) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for up to 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

BASF CORP - Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite HP+, FE137<sup>®</sup>, FE158<sup>®</sup>, Spraytite<sup>®</sup> 158, Spraytite<sup>®</sup> SP and Spraytite<sup>®</sup> 81205

5. Gypsum Board\* — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) 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 layers (multilaye systems) staggered a min of 12 in. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) with Type ULIX need not be staggered. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows: **Gypsum Board Protectio** Stud

Depth, in Rating, Hr Items 2, 2C, 2D, 2F, 2G, 2O 3-1/2

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https://iq.ulprospector.com/en/profile?e=14979	BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ	https://iq.ulprospector.com/er
own — In lieu of Item 1 — For use with Item 2C, proprietary ed from min 0.018 in. thick galv steel, attached to floor and	1H. <b>Floor and Ceiling Runners</b> — (Not Shown) — Channel shaped, fabricated from a accommodate stud size, with min 1 in. long legs, for use with studs specified below a thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC. <b>MARINO/WARE, DIV OF WARE INDUSTRIES INC</b> — Viper20 <sup>™</sup> Track VT100	nin 0.02 in. galv steel, min width to nd fabricated from min 0.018 in. galv ste
	11. Framing Members* — Floor and Ceiling Runners — (Not Shown, As an alternat shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, att	e to Item 1) — For use with Items 2H, ch ached to floor and ceiling with fasteners
hown) — In lieu of Item 1 — Channel shaped, attached to floor	TELLING INDUSTRIES L L C — TRUE-TRACK™	
and Type SUPREME D20 Type SUPREME D24/30EQD and Type SUPREME D20	1J. <b>Framing Members* — Floor and Ceiling Runner —</b> Not Shown — In lieu of Iter channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24	n 1 — For use with Item 2I, proprietary 4 in. OC max.
D and Type SUPREME D20 30EQD and Type SUPREME D20 and Type SUPREME D20	1K. <b>Framing Members* — Floor and Ceiling Runner —</b> Not Shown — In lieu of Iter channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in ceiling with fasteners spaced 24 in. OC max.	m 1 — For use with Item 2J, proprietary n. thick galv steel, attached to floor and
UPREME D20 /pe SUPREME D20	1L. <b>Framing Members* — Floor and Ceiling Runner —</b> Not Shown — In lieu of Iter channel shaped runners, 1-1/4 in. wide by min. 3-1/2 in. deep fabricated from min 0.0 ceiling with fasteners spaced 24 in. OC max. <b>RESCUE METAL FRAMING. L L C</b> — AlphaTRAK	n 1 — For use with Item 2N, proprietary )18 in. thick galv steel, attached to floor
em 2A — Channel shaped, fabricated from min 20 MSG Id size, with min 1 in. long legs, attached to floor and ceiling with		
hown, As an alternate to Item 1) — For use with Items 2E, 5F or bare metal thickness) galvanized steel, attached to floor and	1M. <b>Framing Members* — Floor and Ceiling Runners —</b> Not Shown — As an alter proprietary channel shaped runners, min width to accommodate stud size, galv steel, spaced 24 in. OC max. <b>RONDO BUILDING SERVICES PTY LTD</b> — Rondo Wall Track	nate to Item 1 — For use with Item 2O, attached to floor and ceiling with faster
	1N. <b>Framing Members* — Floor and Ceiling Runners —</b> Not Shown — As an alter proprietary channel shaped runners, min width to accommodate stud size, galv steel, spaced 24 in. OC max. <b>OEG BUILDING MATERIALS</b> — OEG Track	nate to Item 1 — For use with Item 2P, attached to floor and ceiling with faster
own — In lieu of Item 1 — For use with Item 2F, proprietary ize, with 1- 1/8 in. long legs fabricated from min 0.015 in. (min n fasteners spaced 24 in. OC max.	10. <b>Framing Members* — Floor and Ceiling Runner —</b> Not Shown — In lieu of Ite channel shaped runners, min width to accommodate stud size, fabricated from min. 2 attached to floor and ceiling with fasteners spaced 24 in. OC max. <b>CALIFORNIA EXPANDED METAL PRODUCTS CO</b> — Viper X Track	m 1 — For use with Item 2Q, proprietary 5 MSG (0.018 in. min. bare metal thickn
with Item 2G, proprietary channel shaped runners, minimum	2. <b>Steel Studs</b> — Channel shaped, fabricated from min 25 MSG corrosion-protected spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.	steel, min depth as indicated under Item
h fasteners 24 in. OC max.	2A. <b>Steel Studs</b> — (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5J or Type min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.	e ULIX) — Channel shaped, fabricated fr 16 in. OC. Studs friction-fit into floor and

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1-1/2 in.

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f 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal	
ly heights.	

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on or	n Each Side of Wall	
No. of		Min
	Layers	Thkns of
& Thkns		Insulation
	of Panel	(Item 4)
Т	1 layer, 5/8 in. thick	Optional

1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

1 layer, 1/2 in. thick

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

**THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO** — 1/2 in. thick Type C and 5/8 in. thick Type SCX UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, ULIX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

**USG BORAL DRYWALL SFZ LLC** — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, Steel Framing Members\*, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in ltem 6.

5A. Gypsum Board\* — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6. CGC INC — Type SHX.

UNITED STATES GYPSUM CO — Type FRX-G, SHX.

**USG MEXICO S A DE C V** — Type SHX.

5B. Gypsum Board\* — (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) — Nom 5/8 in. or 3/4 in. may be used as alternate to all 5/8 in. or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12). RAY-BAR ENGINEERING CORP — Type RB-LBG

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F	BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ https://iq.ulprospector.com/en/profile?e=14979	BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ
	5C Gynsum Board* (For Lise With Item 2B) Pating Limited to 1 Hour 5/8 in thick 48 in wide Gynsum papels with beyeled	hr ratings are as follows:
	square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical	Gypsum Board Protection on Each Min Stud No. of Laver
	edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both	Rating, Depth, in. & Thickness Hr Item 2E of Panel
	the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S	2 1-5/8 2 layers, 1/2 in. thick
	coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws	2 1-5/8 2 layers, 5/8 in. thick
	time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.	3         1-5/8         3 layers, 1/2 in. thick           2         1.5/8         2 layers, 5/8 in thick
	THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX	4 1-5/8 4 layers, 5/8 in. thick
	UNITED STATES GYPSUM CO — Type SCX, SGX, ULIX.	4 1-5/8 4 layers, 1/2 in. thick
	USG MEXICO S A DE C V — Type SCX	<b>CGC INC</b> — 1/2 in. thick Type C, IP-X2 or IPC-AR;, 5/8 in. thick Type AR, C, IP-AR, IP-
		X3 or ULTRACODE THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Types C and 5/8
	5D. <b>Gypsum Board*</b> — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.	<b>UNITED STATES GYPSUM CO</b> — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick
_	CGC INC — Type USGX UNITED STATES GYPSUM CO — Type USGX	USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRA
E	<b>USG BORAL DRYWALL SFZ LLC</b> — Type USGX	<b>USG MEXICO S A DE C V</b> — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type thick Types IP-X3 or ULTRACODE
	USG MEXICO S A DE C V — Type USGX	
	5E. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when	5H. <b>Gypsum Board*</b> — (Not Shown) — (As an alternate to Item 5 when used 5/8 or 3/4 in thick products are specified. For direct attachment only to steel
	1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered	5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, N 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tape
	over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.	over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides o long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the
	New England Lead Borning CO INC, DBA NELCO — Nelco	Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perime Item 5. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see MAYCO INDUSTRIES INC — Type X-Bay Shielded Gypsum
	5F. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only, Gypsum	ince incontract ince hype x hay sincled bypsain
	panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in	51. <b>Gypsum Board*</b> — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsu
	THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX	CGC INC — Type ULIX, ULX
	USG BORAL DRYWALL SFZ LLC — 5/8 in. thick Type SCX, SGX	UNITED STATES GYPSUM CO — Type ULIX, ULX USG MEXICO S A DE C V — Type ULX
	5G. <b>Gypsum Board*</b> — (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in	5J. <b>Gypsum Board* —</b> (Not Shown) — (As an alternate to Item 5 when used 1/2 in. or 5/8 in thick products are specified, For direct attachment only to st
D	Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge	5/8 in. thick lead backed gypsum panels with beveled, square or tapered edg studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard
	joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4	screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. Oc
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	BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ https://iq.ulprospector.com/en/profile?e=14979 a. <b>Furring Channels —</b> Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as	BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient char
С	BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ https://iq.ulprospector.com/en/profile?e=14979 a. <b>Furring Channels —</b> Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A.	BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient char pan-head self-drilling screw. <b>KEENE BUILDING PRODUCTS CO INC</b> — Type RC+ Assurance Clip
с	BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ       https://iq.ulprospector.com/en/profile?e=14979         a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A.         b. Steel Framing Members* — Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC, and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring	BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient char pan-head self-drilling screw. <b>KEENE BUILDING PRODUCTS CO INC</b> — Type RC+ Assurance Clip 76 <b>Framing Members*</b> — (Optional on one or both sides not shown for single
С	BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ       https://iq.ulprospector.com/en/profile?e=14979         a. Furring Channels Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A.         b. Steel Framing Members* Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC, and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into fitted.         KINETICS NOISE CONTROL INC Type Isomax	<ul> <li>BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ</li> <li>with No. 8 × 2-1/2 in. coarse drywall screw through the center hole. Resilient char pan-head self-drilling screw.</li> <li>KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip</li> <li>7G. Framing Members* — (Optional on one or both sides, not shown, for single Item 7, furring channels and Steel Framing Members as described below:</li> <li>a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/4</li> </ul>
С	BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ       https://iq.ulprospector.com/en/profile?e=14979         a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A.         b. Steel Framing Members* — Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC, and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are finction fitted into clips.         KINETICS NOISE CONTROL INC — Type Isomax	<ul> <li>BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ</li> <li>with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient charpan-head self-drilling screw.</li> <li>KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip</li> <li>7G. Framing Members* — (Optional on one or both sides, not shown, for single Item 7, furring channels and Steel Framing Members as described below:</li> <li>a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/4 studs. Channels secured to studs as described in Item b. Gypsum board attached for use with Item 5A.</li> </ul>
С	BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ       https://iq.ulprospector.com/en/profile?e=14979         a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A.         b. Steel Framing Members* — Used to attach furring channels (Item 78a) to one side of studs (Item 2) only. Clips spaced 48 in. OC, and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.         KINETICS NOISE CONTROL INC — Type Isomax         7C. Framing Members* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to item 7, furring dhannels and Steel Framing Members as described below:	<ul> <li>BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ</li> <li>with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient chat pan-head self-drilling screw.</li> <li>KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip</li> <li>7G. Framing Members* — (Optional on one or both sides, not shown, for single Item 7, furring channels and Steel Framing Members as described below:</li> <li>a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/4 studs. Channels secured to studs as described in Item b. Gypsum board attached for use with Item 5A.</li> <li>b. Steel Framing Members* — Used to attach furring channels (Item 7Ga) to study</li> </ul>
с	BXUVU419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ       https://iq.ulprospector.com/en/profile?e=14979         a. Furring Channels - Formed of No. 25 MSG galv steel, spaced 24 in OC perpendicular to studs. Channels secured to studs as described in Item 5. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A.         b. Steel Framing Members* - Used to studs with two to attach furring channels (Item 78a) to one side of studs (Item 2) only. Clips spaced 48 in. OC, c., and secure to studs with two to No. 8 x 2-1/2 / in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.         KINETICS NOISE CONTROL INC - Type Isomax         7C. Framing Members* - (Not Shown) - (Optional on one or both sides, not shown, for single or double layer systems) - As an alternate to Item 7, furring channels as described in Item 6. Not for use with Item 5.	<ul> <li>BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ</li> <li>with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient char pan-head self-drilling screw.</li> <li>KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip</li> <li>7G. Framing Members* — (Optional on one or both sides, not shown, for single ltem 7, furring channels and Steel Framing Members as described below:</li> <li>a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/4 studs. Channels secured to studs as described in Item b. Gypsum board attached for use with Item 5A.</li> <li>b. Steel Framing Members* — Used to attach furring channels (Item 7Ga) to stus secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw the friction fitted into clips.</li> </ul>
C	BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ https://iq.ulprospector.com/m/profile?e=14979 a. Furning Channels - Formed of No. 25 MSG gaby steel, spaced 24 in .OC perpendicular to studie as described in Item 5. Bottom Bastom definition in them 5. Two layers of gypsum board attached to furning channels as described in Item 5. Not for use with Item 3A. b. Steel Framing Members* — Used to attach furning channels (Item 78a) to one side of studie (Item 2) only. Clips spaced 48 in. OC, and secured to studie with two No. 8 a 2.1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furning channels are friction fitted into clips. KINETICS NOSE CONTROL INC — Type Isomax 7C. Framing Members* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7. furning Channels and Steel Framing Members as described in Item 5. Alter Adv. Data and Steel Framing Members* — Used Sing and steel - 250 in. wide by 781 in. Adv. 24 in. OC perpendicular to studs. Channels secured to stude s described in Item 5. Jose Framing Members* — Used To attach furting channels as described in Item 6. Not for use with Item 74.	<ul> <li>BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ</li> <li>with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient char pan-head self-drilling screw.</li> <li>KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip</li> <li>7G. Framing Members* — (Optional on one or both sides, not shown, for single Item 7, furring channels and Steel Framing Members as described below:</li> <li>a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/4 studs. Channels secured to studs as described in Item b. Gypsum board attached for use with Item 5A.</li> <li>b. Steel Framing Members* — Used to attach furring channels (Item 7Ga) to stus secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw the friction fitted into clips.</li> <li>CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip</li> </ul>
C	BXUV.U419 - Fire-resistance Ratings - ANSULI 263 [UL Product iQ       https://iq.ulprospector.com/en/profile/b=14979         a. Furing Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Stande by a described in tem 5. Not for use with Item 5A.       b. Steel Framing Members* — Used to attach furing channels (tem 72) only. Clps spaced 48 in OC_emplementary in the No. 8 v. 21/2 in. coarse dynall screws, one through the hole at each end of the clp. Furring channels are ficients (fitted into clips.       KMETES NOISE CONTROL INC — Type homax         7C. Framing Members* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to item 7, furring channels and Steel Training whenther as described in item 5. Not for use as described in tem 6. Not for use as described in tem 6. Not for use as described in tem 6. Not for use screet to studs with tem 5. Not Steel Training Members* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to item 7, furring channels and Steel Training whenther as described below.         8. Furring Shamebers* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to item 7, furring channels and Steel Training Wembers as described below.         8. Furring Shamebers* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to item 7, furring channels and Steel Training Wembers as described below.         9. Steel Framing Members* — Used to attach furring channels as described in item 6. Not for use with item 5. Not item 5. Steel	<ul> <li>BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ</li> <li>with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient chai pan-head self-drilling screw.</li> <li>KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip</li> <li>7G. Framing Members* — (Optional on one or both sides, not shown, for single Item 7, furring channels and Steel Framing Members as described below:</li> <li>a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/3 studs. Channels secured to studs as described in Item b. Gypsum board attached for use with Item 5A.</li> <li>b. Steel Framing Members* — Used to attach furring channels (Item 7Ga) to stus secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw the friction fitted into clips.</li> <li>CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip</li> <li>8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound of outer layer. Panet tane nom 2 in wide ambedded in first layer of compound</li> </ul>
C	BXUVU419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ       https://ig.ul/prospector.com/en/profile/e=14979         a. Furring Channels — formed of No. 25 MSG galv steel, spaced 24 in. OC prependicular to studs. Channels secured to studs as described in Item 5. Not for use with Item 35.       Tool Super Sol S	<ul> <li>BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ</li> <li>with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient charpan-head self-drilling screw.</li> <li>KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip</li> <li>7G. Framing Members* — (Optional on one or both sides, not shown, for single Item 7, furring channels and Steel Framing Members as described below: <ul> <li>a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/2 studs. Channels secured to studs as described in Item b. Gypsum board attached for use with Item 5A.</li> <li>b. Steel Framing Members* — Used to attach furring channels (Item 7Ga) to stus secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw the friction fitted into clips.</li> <li>CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip</li> </ul> </li> <li>8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compourt of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound and joint compound may be omitted when gypsum panels are supplied with a source of the compound may be omitted when gypsum panels are supplied with a source of the compound may be omitted when gypsum panels are supplied with a source of the compound may be omitted when gypsum panels are supplied with a source of the compound may be omitted when gypsum panels are supplied with a source of the compound may be omitted when gypsum panels are supplied with a source of the compound may be omitted when gypsum panels are supplied with a source of the compound may be omitted when gypsum panels are supplied with a source of the compound may be omitted when gypsum panels are supplied with a source of the compound may be omitted when gypsum panels are supplied with a source of the compound may be omitted when gypsum panels are supplied with a source of the compound may be omitted when gypsum panels are supplied with a source of the compound may be omitted when gypsum panels are suppl</li></ul>
C	BXUVU419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ https://q.aliprospector.com/carprofile?e=14979 a. forming Channels — Formad for No. 25 MSG givt steel spaced 24 in. OC parpendicular to studs. Channels secured to studs as d decided in Item 3. That start and Blanking placet in stad carriy as discribed in Item 5. The Upers of gyprum board attached to forming Channels — a Gordenies as decrobed in Item 5. The Upers of gyprum board attached to forming Channels — The The Inter 3. The Upers of gyprum board attached to forming Channels are discribed in Item 5. The Upers of gyprum board attached to forming Channels — The Upers of Uperson 1000 (1990) (1	<ul> <li>BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ</li> <li>with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient charpan-head self-drilling screw.</li> <li>KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip</li> <li>7G. Framing Members* — (Optional on one or both sides, not shown, for single Item 7, furring channels and Steel Framing Members as described below: <ul> <li>a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/2 studs. Channels secured to studs as described in Item b. Gypsum board attached for use with Item 5A.</li> <li>b. Steel Framing Members* — Used to attach furring channels (Item 7Ga) to stus secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw the friction fitted into clips.</li> <li>CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip</li> </ul> </li> <li>8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound and joint compound may be omitted when gypsum panels are supplied with a sc</li> <li>9. Stiding, Brick or Stucco — (Optional, Not Shown) — Aluminum, vinyl or steel requirements of local code agencies, installed over gypsum panels. Brick veneer</li> </ul>
C	BXUVUUH9 - Fire-resistance Ratings - ANSI/UL 261 [UL Product iQ       https://js.alprospector.com/emprofile/e=14979         a Furing Clanneds Formed of No. 21 MSG gale strel, spaced 24 h. CC preparadizado to stude as described in item 5. But and Binking spaced is and enviry a described in item 5. The layers of gapsum board attached to furning channels as described in item 5. Not for use with liter 5A.       b Stel Faming Members* Used to attach thring channels from 78x to no as side of stude; [item 2] only, Clips spaced 48 in. OC, and secured to stude with two for as x 2-1/2 in course dynal screex, one through the lote at each end of the clip. Furning channels are fiction fitted into olips.         XINTECS NOISE CONTROL INC Type Ionnas       7C. Franzing Members* (Not Stown) (Optional on one or both sides, not show, for single or desable layer systems) As an afternate for to stude as described in item 5. Writing channels secured to stude as described to stude screek and screeked to screeke as a described in them. A string channels secured to stude as described in term b. Gypaum board attached to furing channels as described in term 6. Not for some with item 5A.         B Stel Franzing Members* Used to attach furing channels (them 7Ca) to stude there y formmets. Furing channels as described in the on b. 8 to 1-1/2 in. minimum self-diflip, 5-12 stee is zerow through the center grommet. Furing channels as defective in and data as the fitter fitter in add and the second attached to furing channels as described in item 6. Not for some with item 5A. </td <td><ul> <li>BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ</li> <li>with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient charpan-head self-drilling screw.</li> <li>KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip</li> <li>7G. Framing Members* — (Optional on one or both sides, not shown, for single Item 7, furring channels and Steel Framing Members as described below:</li> <li>a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7// studs. Channels secured to studs as described in Item b. Gypsum board attached for use with Item 5A.</li> <li>b. Steel Framing Members* — Used to attach furring channels (Item 7Ga) to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw the friction fitted into clips.</li> <li>CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip</li> <li>8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound and joint compound may be omitted when gypsum panels are supplied with a sc</li> <li>9. Siding, Brick or Stucco — (Optional, Not Shown) — Aluminum, vinyl or steel requirements of local code agencies, installed over gypsum panels. Brick veneer attached to each stud with steel screws, not more than each sixth course of brick</li> </ul></td>	<ul> <li>BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ</li> <li>with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient charpan-head self-drilling screw.</li> <li>KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip</li> <li>7G. Framing Members* — (Optional on one or both sides, not shown, for single Item 7, furring channels and Steel Framing Members as described below:</li> <li>a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7// studs. Channels secured to studs as described in Item b. Gypsum board attached for use with Item 5A.</li> <li>b. Steel Framing Members* — Used to attach furring channels (Item 7Ga) to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw the friction fitted into clips.</li> <li>CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip</li> <li>8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound and joint compound may be omitted when gypsum panels are supplied with a sc</li> <li>9. Siding, Brick or Stucco — (Optional, Not Shown) — Aluminum, vinyl or steel requirements of local code agencies, installed over gypsum panels. Brick veneer attached to each stud with steel screws, not more than each sixth course of brick</li> </ul>
c	BXUVU119 - Fire-resistance Rutings - ANSEUL 263 [ UL Product iQ       Impe://iii.pulpospector.com/cat/profile/e-14979         a Furning Channels — Formed of No. 25 MSG galx steel.spaced 24 in OC perpendicular to studs. Channels secured to studs as described in them 5. Not super of gapsam band attached to furge standards and standards galacteribed in them 5. Not super of gapsam band attached to furge standards and standards galacteribed in them 5. Not super of gapsam band attached to furge standards at described in them 5. Not super of gapsam band attached to furge standards attached to furge standards attached to furge standards attached to them 5. Not super of gapsam band attached to furge standards attached to them 5. Not super of gapsam band attached to furge standards attached to them 5. Not super of gapsam band attached to furge standards attached to the Not Size 3.2 (J. In casard dynall stores, our through the bate at each end of the dip. Furge standards attached them 5. Not super standards attached to the store attached to the gapsame band attached to the store attached to the store standards attached to them 7. (Journal stores, our through the bate at each end of the dip. Furge standards attached to the Not Size 3.2 (J. In casard dynall stores, our through the bate at each end of the dip. Furge standards attached to them 7. (Journal stores at the furge standards to them 7. (Journal stores at the furge standards to them 7. (Journal stores attached to them 7. (Journal stores attach	<ul> <li>BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ</li> <li>with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient chal pan-head self-drilling screw.</li> <li>KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip</li> <li>7G. Framing Members* — (Optional on one or both sides, not shown, for single Item 7, furring channels and Steel Framing Members as described below: <ul> <li>a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/3 studs. Channels secured to studs as described in Item b. Gypsum board attached for use with Item 5A.</li> <li>b. Steel Framing Members* — Used to attach furring channels (Item 7Ga) to stus secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw the friction fitted into clips.</li> <li>CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip</li> </ul> </li> <li>8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound and joint compound may be omitted when gypsum panels are supplied with a sc</li> <li>9. Siding, Brick or Stucco — (Optional, Not Shown) — Aluminum, vinyl or steel requirements of local code agencies, installed over gypsum panels. Brick veneer attached to each stud with steel screws, not more than each sixth course of brick 10. Caulking and Sealants* — (Optional, Not Shown) — A bead of acoustical se sound control.</li> </ul>
C	INXUV1019 - Fire resistance Ratings - AXSUUL 251   UL Product (Q)       https://iii.gulprospectracemiles/public/e=14979         Instruction of the control of the content of the control of the control of the con	<ul> <li>BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ</li> <li>with No. 8 x 2-1/2 in, coarse drywall screw through the center hole. Resilient charpan-head self-drilling screw.</li> <li>KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip</li> <li>7G. Framing Members* — (Optional on one or both sides, not shown, for single Item 7, furring channels and Steel Framing Members as described below: <ul> <li>a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in, wide by 7/7 studs. Channels secured to studs as described in Item b. Gypsum board attached for use with Item 5A.</li> <li>b. Steel Framing Members* — Used to attach furring channels (Item 7Ga) to stus secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw the friction fitted into clips.</li> <li>CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip</li> </ul> </li> <li>8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound and joint compound may be omitted when gypsum panels are supplied with a sc</li> <li>9. Siding, Brick or Stucco — (Optional, Not Shown) — Aluminum, vinyl or steel requirements of local code agencies, installed over gypsum panels. Brick veneer: attached to each stud with steel screws, not more than each sixth course of brick 10. Caulking and Sealants* — (Optional, Not Shown) — A bead of acoustical se sound control.</li> <li>UNITED STATES GYPSUM CO — Type AS</li> </ul>
B	SXUVUL49 - File-resistance Kainigs - ANSUUL 201 UL Product (Q       Exposing ulprospector.ears/exprofile/te=14479         A - Pering Channel, — Forwing Channel, — Star Sid Sid application is secretized in the star and iterative secretized in terms of the star and iterative secretized in terms of secretized in terms of the star and iterative secretized in terms 5. The layer of gassimic board statched to furning channels as detached in terms of the star and iterative secret dynamic secretized integration of the star and iterative secretized integration of the star and iterative secret dynamic secretized and secretized in terms 5. The layer of gassimic board statched the layer of gassimic board statc	<ul> <li>BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ</li> <li>with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient chaipan-head self-drilling screw.</li> <li>KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip</li> <li>7G. Framing Members* — (Optional on one or both sides, not shown, for single Item 7, furring channels and Steel Framing Members as described below:</li> <li>a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/3 studs. Channels secured to studs as described in Item b. Gypsum board attached for use with Item 5A.</li> <li>b. Steel Framing Members* — Used to attach furring channels (Item 7Ga) to stusc. CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip</li> <li>8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound and joint compound may be omitted when gypsum panels are supplied with a sc</li> <li>9. Siding, Brick or Stucco — (Optional, Not Shown) — Aluminum, vinyl or steel requirements of local code agencies, installed over gypsum panels. Brick veneer: attached to each stud with steel screws, not more than each sixth course of brick</li> <li>10. Caulking and Sealants* — (Optional, Not Shown) — A bead of acoustical se sound control.</li> <li>UNITED STATES GYPSUM CO — Type AS</li> </ul>
B	<ul> <li>INTERCIPATION - First resistance Realings - ANSULT 261 [17. Product IQ</li> <li>ImpoSingulproyector.com/exprofile/=1479</li> <li>Parring Channels - Formed of the 25 MSG give stratt spaced 24 in O.C. parpreduction to stude. Channels secure to stude at detected in them 5. Not State and th</li></ul>	<ul> <li>BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ</li> <li>with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient chai pan-head self-drilling screw.</li> <li>KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip</li> <li>7G. Framing Members* — (Optional on one or both sides, not shown, for single Item 7, furring Channels and Steel Framing Members as described below: <ul> <li>a. Furring Channels — Formed of No. 25 MSG galv steel. 2-2372; in. wide by 7/, studs. Channels secured to studs as described in Item b. Gypsum board attached for use with Item 5A.</li> <li>b. Steel Framing Members* — Used to attach furring channels (Item 7Ga) to stus secured to studs with No. 8 x 1-1/2 in. minimum self-drilling. S-12 steel screw the friction fitted into clips.</li> <li>CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip</li> </ul> </li> <li>8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compourt of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound and joint compound may be omitted when gypsum panels. Brick veneer: attached to each stud with steel screws, not more than each sixth course of brick sound control.</li> <li>UNITED STATES GYPSUM CO — Type AS</li> </ul> 11. Lead Batten Strips — (Not Shown, For Use With Item 5B) — Lead batten stri thickness of 0.125 in. Strips placed on the interior face of studs and attached for Upge S-12 pan head steel screws, one at the top of the strip and one at the both of 99 9% meeting the Eddeal screeting 00-012 fill Grade "C" lead batten Strips = Compare Shown, For Use With Item 5B) — Lead batten strips = Capera Shown and attached for the strip and one at the both of 99 9% meeting the Eddeal screeting 00-01-2016 Grade "C" lead batten Strips = Compare Shown at the top of the strip and one at the both of 99 9% meeting the Eddeal screeting 00-01-2016 Grade "C" lead batten Strips and one at the both of 99 9% meeting the Eddeal screeting 00-01-2016 Grade "C" lead batten Strips and o
B	<ul> <li>DXUUUIIS- Fire resistance Ratings - AXSIUU.261.102 Predict (Q)</li> <li>Impol<sup>2</sup> a prospectraccemen predict/p=14979</li> <li>a Foring Channel — Formed Also.29 MSG as versa; queed 24 in CC persistication to thatk as a decoherin in term is basits and distoles pased and and using a decoherin in term is basits and distoles pased and that the SA.</li> <li>Inc. of the Tomber Also mode and the SA.</li> <li>Inc. of the Tomber Also mode and the SA.</li> <li>Inc. of the Tomber Also mode and the SA.</li> <li>Inc. of the Tomber Also mode and the SA.</li> <li>Inc. of the Tomber Also mode and the SA.</li> <li>Inc. of the Tomber Also mode and the SA.</li> <li>Inc. of the Tomber Also mode and the SA.</li> <li>Inc. of the Tomber Also mode and the SA.</li> <li>Inc. of the Tomber Also mode and the SA.</li> <li>Inc. of the Tomber Also mode and the SA.</li> <li>Inc. of the Tomber Also mode and the SA.</li> <li>Inc. of the Tomber Also mode and the SA.</li> <li>Inc. of the Tomber Also mode and the SA.</li> <li>Inc. of the Tomber Also mode and the SA.</li> <li>Inc. of the Tomber Also mode and the SA.</li> <li>Inc. of the Tomber Also mode and the SA.</li> <li>Inc. of the Tomber Also mode and the SA.</li> <li>Inc. of the Tomber Also mode and the SA.</li> <li>Inc. of the Tomber Also mode and the SA.</li> <li>Inc. of the Tomber Also mode and the SA.</li> <li>Inc. of the Tomber Also mode and the SA.</li> <li>Inc. of the Tomber Also mode and the SA.</li> <li>Inc. of the Tomber Also mode and the SA.</li> <li>Inc. of the Tomber Also mode and the SA.</li> <li>Inc. of the Tomber Also mode and the SA.</li> <li>Inc. of the Tomber Also mode and the SA.</li> <li>Inc. of the SA.</li> <li>Inc</li></ul>	<ul> <li>BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ</li> <li>with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient charpan-head self-drilling screw.</li> <li>KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip</li> <li>7G. Framing Members* — (Optional on one or both sides, not shown, for single Item 7, furring channels and Steel Framing Members as described below: <ul> <li>a. Furring Channels — Formed of No. 25 MSG gaiv steel. 2-23/32 in. wide by 7/3 studs. Channels secured to studs as described in Item b. Gypsum board attached for use with Item 5A.</li> <li>b. Steel Framing Members* — Used to attach furring channels (Item 7Ga) to stis secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw the friction fitted into clips.</li> <li>CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip</li> </ul> </li> <li>8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compourt of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound and joint compound may be omitted when gypsum panels are supplied with a sc 9. Siding, Brick or Stucco — (Optional, Not Shown) — Aluminum, vinyl or steel requirements of local code agencies, installed over gypsum panels. Brick veneer attached to each stud with steel screws, not more than each sixth course of brick sound control.</li> <li>UNITED STATES GYPSUM CO — Type AS</li> </ul> 11. Lead Batten Strips — (Not Shown, For Use With Item 5B) — Lead batten strit thickness of 0.125 in. Strips placed on the interior face of studs and attached for Type 5-12 pan head steel screws, not more than each sixth and attached for Sys99 meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strip speum wallboard (Item 5B) and optional at remaining stud locations. Required I Sys99 meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strip speum wallboard (Item 5B) and optional at remaining stud locations. Required I Sys90 meeting the Federal specification QQ
B	10.1000 10.100	<ul> <li>BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ</li> <li>with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient chal pan-head self-drilling screw.</li> <li>KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip</li> <li>7G. Framing Members* — (Optional on one or both sides, not shown, for single Item 7, furring channels and Steel Framing Members as described below: <ul> <li>a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/, studs. Channels secured to studs as described in Item b. Gypsum board attached for use with Item 5A.</li> <li>b. Steel Framing Members* — Used to attach furring channels (Item 7Ga) to st secured to studs with No. 8 x 1-1/2 in. minimum self-drilling. S-12 steel screw the friction fitted into clips.</li> <li>CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip</li> </ul> </li> <li>8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound and joint compound may be omitted when gypsum panels. Brick veneer attached to each stud with steel screws, not more than each sixth course of brick</li> <li>10. Caulking and Sealants* — (Optional, Not Shown) — A bead of acoustical se sound control.</li> <li>UNITED STATES GYPSUM CO — Type AS</li> <li>11. Lead Batten Strips — (Not Shown, For Use With Item 5B) — Lead batten stri thickness of 0.125 in. Strips placed on the interior face of studs and attached for type 5-12 pan head steel screws, one at the top of the strip and one at the bott of 9.9.% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips placed on the interior face of studs and attached for type 5-12 pan head isteel screws, one at the top of the strip and one at the bott of 9.9.% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips placed on the interior face of studs and attached for type S-12 pan head isteel screws, one at the top of the strip and one at the bott of</li></ul>
B	IEXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	<ul> <li>BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ</li> <li>with No. 8 x 2-1/2 in, coarse drywall screw through the center hole. Resilient charpan-head self-drilling screw.</li> <li>KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip</li> <li>7G. Framing Members* — (Optional on one or both sides, not shown, for single Item 7, furring channels and Steel Framing Members as described below:</li> <li>a. Furring Channels — Tormed of No. 25 MSG galv steel 2-23/32 in. vide by 7/3 studs. Channels secured to studs as described in Item b. Gypsum board attached for use with Item 5A.</li> <li>b. Steel Framing Members* — Used to attach furring channels (Item 7Ga) to st secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw the friction fitted into clips.</li> <li>CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip</li> <li>8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compour of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound and joint compound may be omitted when gypsum panels are supplied with a sc 9. Siding, Brick or Stucco — (Optional, Not Shown) — Aluminum, vinyl or steel requirements of local code agencies, installed over gypsum panels. Brick veneer attached to each stud with steel screws, not more than each sixth course of brick 10. Caulking and Sealants* — (Optional, Not Shown) — A bead of acoustical se sound control.</li> <li>UNITED STATES GYPSUM CO — Type AS</li> <li>11. Lead Batten Strips — (Not Shown, For Use With Item 5B) — Lead batten stri thickness of 0.125 in. Strips placed on the interior face of studs and attached for Type 5-12 pa head steel screws, not the top of the strip and one at the botto of 99.9% meeting the Federal specification QQ-1-201f, Grade "C". Lead batten strip strips meeting the federal specification Qu-2-201f, Grade "C". Lead batten strip or wing screw and the top of the strip and one at the bottom of the strip or Wing Strips placed on the face of studs and attached to the s</li></ul>
B	EXELUTION - Processmance Ratings - ANOLINE 201 [L1: Procketing Processing approproduction independence in the set of the	<ul> <li>BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ</li> <li>with No. 8 x 2-1/2 in, coarse drywall screw through the center hole. Resilient char pan-head self-drilling screw.</li> <li>KEENE BUILDING PRODUCTS CO INC — Type RC + Assurance Clip</li> <li>7G. Framing Members* — (Optional on one or both sides, not shown, for single them 7, furring channels and Steel Framing Members as described below.</li> <li>a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7// studs. Channels secured to studs as described in Item b. Gypsum board attached for use with Item 5A.</li> <li>b. Steel Framing Members* — Used to attach furring channels (Item 7Ga) to st secured to studs with No. 8 x 1-1/2 in, minimum self-drilling, 5-12 steel screw the friction fitted into clips.</li> <li>CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip</li> <li>8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound and joint compound may be omitted when gypsum panels are supplied with as sum of local code agencies, installed over gypsum panels. Brick veneer attached to each stud with steel screws, not more than each sixth course of brick 10. Caulking and Sealants* — (Optional, Not Shown) — A bead of acoustical se sound control.</li> <li>UNITED STATES GYPSUM CO — Type AS</li> <li>11. Lead Batten Strips — (Not Shown, For Use With Item 5B) — Lead batten stri thickness of 0.125 in. Strips placed on the interior face of studs and attached for Type S-12 pan head steel screws, one at the top of the strip and one at the botto of 99.9% meeting the Federal specification QQ-L-201f. Grade "C". Lead batten strips — (Not Shown, For Use With Item 5H) — Lead batten strips placed on the face of studs and attached to the stud steel screws, one at the top of the strip and one at the botto of 99.9% meeting the Federal specification QQ-L-201f. Grade "C". Lead batten strips required behind vertical joints of lead ba</li></ul>
B	DXXVVXIV3 - Flow volumes Rulings - AMSCUL 201 (UL Poders)       Dispecting derespondenceming politicly = 1993         - Funding Channel — Forward Mice, 2400 Optional years 2400 OC preperiodic term tools. Observation and an editor of the UL Poders and Berlin School Poders and Berl	<ul> <li>BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ</li> <li>with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient chai pan-head self-drilling screw.</li> <li>KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip</li> <li>7G. Framing Members* — (Optional on one or both sides, not shown, for single Item 7, furring channels and Steel Framing Members as described below: <ul> <li>a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/3 studs. Channels secured to studs as described in Item b. Gypsum board attached for use with Item 5A.</li> <li>b. Steel Framing Members* — Used to attach furring channels (Item 7Ga) to sti secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, 5-12 steel screw the friction fitted into clips.</li> <li>CLARKOIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip</li> </ul> </li> <li>8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compour of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound and joint compound may be omitted when gypsum panels. Brick veneer attached to each stud with steel screws, not more than each sixth course of brick ender attached to each stud with steel screws, not more than each sixth course of brick of 99.9% meeting the Federal specification Qu-2-201f (Grade CC). Lead batten stri thickness of 0.125 in. Strips placed on the interior face of studs and attached for Sypsum wallboard (Item 5B) and optional at remaining stud locations. Required 11.1. Lead Batten Strips — (Not Shown, For Use With Item 5B) — Lead batten strip suppress location and a point of CC. Lead batten strip supplead on the face of studs and attached to the stud steel screws, one at the top of the strip and one at the botter of 99.9% meeting the Federal specification QU-2016 (Grade CC). Lead batten strips required behind vertical joints of lead batten strip or vito of 10.15 in. Strips placed on the face of studs and attached to the stud steel screws, one at the top of the</li></ul>
B	EXERCISE Provide Testing Control of the ST MKG public set quarter SA is SG programmed and the state of t	<ul> <li>BXUV.U419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ</li> <li>with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient char pan-head self-drilling screw.</li> <li>KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip</li> <li>7G. Framing Members* — (Optional on one or both sides, not shown, for single Item 7, furring channels and Steel Framing Members as described below.</li> <li>a. Furring Channels — Formed of No. 25 MSG galv steel223/21 in. wide by 7/3 studs. Channels secured to studs as described in Item b. Gypsum board attached for use with Item 5A.</li> <li>b. Steel Framing Members* — Used to attach furring channels (Item 7Ga) to sti secured to studs with No. 8 x 1-1/2 in. minimum self-drilling. S-12 steel screw the friction fitted into clips.</li> <li>CLARKOIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip</li> <li>8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound of outer layers. Paper tape, non 2 in. wide, embedded in first layer of compound and joint compound may be omitted when gypsum panels are supplied with a sc such at the optical screws, not more than each sixth course of brick 10. Caulking and Sealants* — (Optional, Not Shown) — A bead of acoustical se sound control.</li> <li>UNITED STATES GYPSUM CO — Type AS</li> <li>11. Lead Batten Strips — (Not Shown, For Use With Item 5B) — Lead batten stri thickness of 0.125 in. Strips placed on the interior forace of studs and attached fror Type 5-12 pan head steel screws, one at the top of the strip and one at the botts of 999% meeting the Federal specification Qu-2015 (frade "C". Lead batten strips required beind evertical points of placed on the for strip and one at the botts of 999% meeting the Federal specification Qu-2015 (frade "C". Lead batten strip or with screw at the top of the strip and one at the botts of 999% meeting the Federal specification Qu-2015 (frade "C". Lead batten strip or with screw at the top of the strip and one at the botts of 999% meeting the Fed</li></ul>
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B	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	<ul> <li>BXUVU419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ</li> <li>with No. 8 x 2-1/2 in, coarse drywall screw through the center hole. Resilient chat pan-head self-drilling screw.</li> <li>KENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip</li> <li>76. Framing Members* — (Optional on one or both sides, not shown, for single then 7, furring channels and Steel Framing Members as described below: <ul> <li>a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in, wide by 7/3 studs. Channels secured to studs as described in Item b. Gypsum board attached for use with Item 5A.</li> <li>b. Steel Framing Members* — Used to attach furring channels (Item 7Ga) to st secured to studs with No. 8 x 1-1/2 in, minimum self-drilling, S-12 steel screw the friction fitted into clips.</li> <li>CLARKDETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip</li> </ul> </li> <li>8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound of uider layers. Paper tape, nom 2 in, wide, embedded in first layer of compound and joint compound may be omitted when gypsum panels are supplied with a se or 3. Siding, Brick or Stucco — (Optional, Not Shown) — A head of acoustical se sound control.</li> <li>UNITED STATES SYPSUM CO — Type AS</li> <li>11. Lead Batten Strips — (Not Shown, For Use With Item 5B) — Lead batten striptickness of 0.125 in. Strips placed on the interior face of studs and attached for 999% meeting the Federal specification QQ-L-201f, Grade "C", Lead batten strip sequence batten strip and optional at remaining stud locations. Required 11.1. Lead Batten Strips — (Not Shown, For Use With Item 5B) — Lead batten striptickness of 0.125 in. Strips placed on the face of studs and attached for 999% meeting the Federal specification QQ-L-201f, Grade "C", Lead batten strip required batten strip to have a purity 0.955% meeting the footions. A way 34 in diam by max 0.125 in thick lead discs: to have a purity of 99.5% meeting the footions and 34.11 to botto on the strip or Wit screw at the top</li></ul>
B	2000018 - For example Rang - AMMULOD (U.D.Water) a Finded Character - Bring address State Range Address Range	<ul> <li>BXUVU419 - Fire-resistance Ratings - ANSI/UL 263   UL Product iQ</li> <li>with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient chat pan-head self-drilling screw.</li> <li>REFE BUILDING PRODUCTS CO INC — Type RC + Assurance Cip</li> <li>76. Framing Members* — (Optional on one or both sides, not shown, for single them 7, furring channels and Steel Framing Members as described below.</li> <li>a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/3 studs. Channels secured to studs as described in item b. Gypsum board attached for use with item 5A.</li> <li>b. Steel Framing Members* — Used to attach furring channels (item 76a) to stussecured to studs with No. 8 x 1-1/2 in. minimum self-drilling, 5-12 steel screw the friction fitted into cips.</li> <li>CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip</li> <li>8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compour of outer layers. Paper tape, non 2 in. wide, embedded in first layer of compound and joint compound may be outtited when gypsum panels are supplied with as a supplied with as supplied with as a supplied with as a supplied with as supplied with as supplied with as the</li></ul>
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single or double layer systems) — As an alternate to by 7/8 in. deep, spaced max. 24 in. OC perpendicular to ached to furring channels as described in Item 6. Not

to studs (Item 2). Clips spaced max. 48 in. OC. Clips ew through the center hole. Furring channels are

npound applied in two coats to joints and screw heads bound over all joints of outer layer panels. Paper tape th a square edge.

r steel siding, brick veneer or stucco, meeting the eneer attached to studs with corrugated metal wall ties brick.

ical sealant applied around the partition perimeter for

en strips, min 1-1/2 in. wide, max 10 ft long with a max d from the exterior face of the stud with two 1 in. long bottom of the strip. Lead batten strips to have a purity ten strips required behind vertical joints of lead backed uired behind vertical joints.

tten strips, 2 in. wide, max 10 ft long with a max stud with two min. 1 in. long min. Type S-8 pan head or with one min. 1 in. long min. Type S-8 pan head steel eeting the Federal specification QQ-L-201f, Grades "B, psum wallboard and optional at remaining stud

eu of or in addition to the lead batten strips (Item 11) or scs compression fitted or adhered over steel screw gypsum boards (Item 5B) underneath screw locations f 99.9% meeting the Federal specification QQ-L-201f,

by max 0.140 in. thick lead discs compression fitted or ng the Federal Specification QQ-L-201f, Grades "B, C or

4

3

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### n Each Side of Wall Min Thkns of Insulation (Item 4)

1
Optional

AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX or 3/4 in. thick Types IP-

nd 5/8 in. thick SCX

. thick Type SCX, SGX, SHX, IP-X1, AR, C, , FRX-G, IP-AR, IP-X2,

## ULTRACODE

k Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in.

n used as the base layer on one or both sides of wall when o steel studs Item 2A, (not to be used with Item 3) - Nom em 5, Wallboard Protection on Each Side of Wall table. Nom r tapered edges, applied vertically. Vertical joints centered sides of studs. Wallboard secured to studs with 1-1/4 in. C in the field. Gypsum board secured to 20 MSG steel studs erimeter and 12 in. OC in the field. For Joint Compound see (see Item 12A).

gypsum panels with beveled, square or tapered edges ndicated in Item 5.

used as the base layer on one or both sides of wall when y to steel studs Item 2A, not to be used with Item 3). Nom ed edges, applied vertically. Vertical joints centered over board secured to studs with 1-1/4 in. long Type S-12 steel 2 in. OC in the field. Lead batten strips required behind

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vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5K. Gypsum Board\* — (As an alternate to Item 5 when Foam Plastic insulation (Item 4C) is used) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to studs over inner layer with the 1-5/8 in. long steel screws spaced 8 in. OC.

5L. Gypsum Board\* — (As an alternate to Item 5 when Foam Plastic insulation (Item 4D) is used) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to studs over inner layer with the 1-7/8 in. long steel screws spaced 8 in. OC.

6. Fasteners — (Not Shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Single layer system with Type ULIX: 1 in. long, spaced 12 in. OC in the field and perimeter, when panels are applied horizontally or vertically. Two layer systems: First layer-1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. Three-layer systems: First layer-1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

7. Furring Channels — (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A.

7A. Framing Members\* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described

b. Steel Framing Members\* — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels. PAC INTERNATIONAL L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

7B. Framing Members\* — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:

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t channels are secured to clips with one No. 10 x 1/2 in.

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in Item 6. Not for use with Item 5A.

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13. Lead Batten Strips — (Not Shown, For Use With Item 5E) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations.

14. Lead Tabs — (Not Shown, For Use With Item 5E) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

15. Barrier Mesh — (Optional, Not Shown) - Attached to steel studs on one or both sides of the wall using Barrier Mesh Clips spaced at maximum 12 inches on center vertically, using a flat head type screw penetrating through the steel at least 3/8 of an inch. For Steel Studs less than 0.033 inches in thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033 inches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 5) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh may be installed with the long dimension of the diamond pattern positioned vertically or horizontally. Barrier Mesh joints may occur as butt joints at the framing members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joints secured using 18 SWG wire ties spaced a maximum 12 in. on center.

CLARKDIETRICH BUILDING SYSTEMS — Barrier Mesh, Barrier Mesh Clips

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively. Last Updated on 2022-09-05

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

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![](_page_6_Figure_1.jpeg)

![](_page_6_Figure_2.jpeg)

![](_page_6_Figure_3.jpeg)

![](_page_6_Figure_4.jpeg)

![](_page_6_Figure_5.jpeg)

![](_page_6_Picture_6.jpeg)

![](_page_6_Figure_8.jpeg)

## STRUCTURAL GENERAL NOTES

![](_page_7_Figure_1.jpeg)

REVIEW PRIOR TO FABRICATION FOR: A. STRUCTURAL STEEL 5. SUBMIT IN A TIMELY MANNER TO PERMIT 10 WORKING DAYS FOR REVIEW BY THE STRUCTURAL ENGINEER. 6. SHOP DRAWINGS SUBMITTED FOR REVIEW DO NOT CONSTITUTE "REQUEST FOR CHANGE IN WRITING" UNLESS SPECIFIC SUGGESTED CHANGES ARE CLEARLY MARKED. IN ANY EVENT, CHANGES MADE BY MEANS OF THE SHOP DRAWING SUBMITTAL PROCESS BECOME THE RESPONSIBILITY OF THE ONE INITIATING THE CHANGE.

## 30 PSF 35 PSF

40 PSF 1.0

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	0.075g 0.120g D 1.5

FIELD VERIFICATION OF EXISTING CONDITIONS: THE GENERAL CONTRACTOR SHALL THOROUGHLY INSPECT AND SURVEY THE EXISTING STRUCTURE TO VERIFY CONDITIONS THAT AFFECT THE WORK SHOWN ON THE DRAWINGS. 2. THE GENERAL CONTRACTOR SHALL REPORT ANY VARIATIONS OR DISCREPANCIES TO THE ARCHITECT AND STRUCTURAL ENGINEER BEFORE PROCEEDING. STRUCTURAL COORDINATION, ERECTION AND BRACING REQUIREMENTS:

THE STRUCTURAL DRAWINGS ILLUSTRATE AND DESCRIBE THE COMPLETED STRUCTURE WITH ELEMENTS IN THEIR FINAL POSITIONS, PROPERLY SUPPORTED, CONNECTED, AND/OR BRACED. NOTHING SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE CONSTRUED AS ELIMINATING THE NEED FOR THE CONTRACTOR TO COMPLY WITH ALL OSHA REQUIREMENTS. 2. THE GENERAL CONTRACTOR, IN THE PROPER SEQUENCE, SHALL PERFORM OR SUPERVISE ALL WORK

NECESSARY TO ACHIEVE THE FINAL COMPLETED STRUCTURE, AND TO PROTECT THE STRUCTURE, WORKMEN, AND OTHERS DURING CONSTRUCTION. 3. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL WORK, INCLUDING SEQUENCE OF CONSTRUCTION, LAYOUT AND DIMENSION VERIFICATION WITH ARCHITECTURAL DRAWINGS, MATERIALS

COORDINATION, SHOP DRAWING REVIEW, AND THE WORK OF SUBCONTRACTORS. ANY DISCREPANCIES OR OMISSIONS DISCOVERED IN THE COURSE OF THE WORK SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR RESOLUTION. CONTINUATION OF WORK WITHOUT NOTIFICATION OF DISCREPANCIES RELIEVES THE ARCHITECT AND STRUCTURAL ENGINEER FROM ALL CONSEQUENCES. 4. UNLESS OTHERWISE SPECIFICALLY INDICATED, THE STRUCTURAL DRAWINGS DO NOT DESCRIBE METHODS OF CONSTRUCTION.

5. THE STRUCTURAL DRAWINGS ILLUSTRATE TYPICAL AND REPRESENTATIVE DETAILS TO ASSIST THE GENERAL CONTRACTOR. DETAILS SHOWN APPLY AT ALL SIMILAR CONDITIONS UNLESS OTHERWISE INDICATED. ALTHOUGH DUE DILIGENCE HAS BEEN APPLIED TO MAKE THE DRAWINGS AS COMPLETE AS POSSIBLE, NOT EVERY DETAIL IS ILLUSTRATED AND NOT EVERY EXCEPTIONAL CONDITION IS ADDRESSED. 6. VERIFY ALL OPENINGS THROUGH ROOF WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL REQUIREMENTS.

COORDINATE DIMENSIONS WITH SUPPLIERS PRIOR TO FABRICATION. 7. SIGNIFICANT PERMANENT EQUIPMENT SIZES, WEIGHTS AND LOCATIONS ARE INDICATED ON THE DRAWINGS AS PROVIDED TO THE ENGINEER DURING DESIGN. CHANGES IN SIZE, WEIGHT, OR LOCATION MUST BE SUBMITTED IN WRITING FOR REVIEW BY THE ENGINEER. REQUIRED CURBS, SUPPORTS, OR BRACES NOT SHOWN ON THE DRAWINGS ARE THE RESPONSIBILITY OF THE EQUIPMENT SUPPLIER. 8. ALL PROPRIETARY CONNECTIONS AND ELEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS.

9. ALL WORK SHALL BE ACCOMPLISHED IN A WORKMANLIKE MANNER AND IN ACCORDANCE WITH THE APPLICABLE CODES AND LOCAL ORDINANCES. 10. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL ALL SUPPORTING ELEMENTS ARE IN PLACE. 11. THE ARCHITECT AND STRUCTURAL ENGINEER BEAR NO RESPONSIBILITY FOR THE ABOVE ITEMS, AND OBSERVATION VISITS TO THE SITE DO NOT IN ANY WAY INCLUDE INSPECTIONS OF THESE ITEMS.

SPECIAL INSPECTIONS: 1. THE FOLLOWING SPECIAL INSPECTIONS AND TESTING SHALL BE PERFORMED BY A QUALIFIED SPECIAL INSPECTOR, RETAINED BY THE OWNER, IN ACCORDANCE WITH THE FOLLOWING SECTIONS OF IBC CHAPTER 17: A. SECTION 1704 SPECIAL INSPECTIONS, CONTRACTOR RESPONSIBILITY, AND STRUCTURAL OBSERVATIONS AND THE FOLLOWING SUB-SECTIONS: 1704.2 SPECIAL INSPECTIONS AND TESTS

1704.3 STATEMENT OF SPECIAL INSPECTIONS B. SECTION 1705 REQUIRED VERIFICATION AND INSPECTION AND THE FOLLOWING SUB-SECTIONS: 1. 1705.2 STEEL CONSTRUCTION C. SECTION 1706 DESIGN STRENGTHS OF MATERIALS 2. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE

SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. THE APPROVED INSPECTOR MUST BE INDEPENDENT FROM THE CONTRACTOR RESPONSIBLE FOR THE WORK BEING INSPECTED. 3. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR SHALL BE TO INSPECT AND/OR TEST THE WORK OUTLINED ABOVE AND WITHIN THE STATEMENT OF SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE IBC FOR CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. 4. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR

CORRECTION. 5. PER SECTION 1704.2.4 THE SPECIAL INSPECTOR SHALL FURNISH REPORTS TO THE BUILDING OFFICIAL AND THE STRUCTURAL ENGINEER. THE REPORTS SHALL NOTE UNCORRECTED DEFICIENCIES, CORRECTION OF PREVIOUSLY REPORTED DEFICIENCIES, AND CHANGES TO THE APPROVED CONSTRUCTION DOCUMENTS AUTHORIZED BY THE STRUCTURAL ENGINEER OF RECORD. 6. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT WITHIN 10 DAYS OF THE FINAL SPECIAL

INSPECTION STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE IBC. WORK NOT IN COMPLIANCE SHALL BE NOTED IN THE REPORT. 7. EXCEPT AS NOTED, THE SPECIAL INSPECTIONS OUTLINED ABOVE ARE IN ADDITION TO, AND BEYOND THE SCOPE OF, PERIODIC STRUCTURAL OBSERVATIONS AS DEFINED IN SECTION 1704.6. STRUCTURAL OBSERVATIONS ARE

INCLUDED IN THE STRUCTURAL ENGINEERING DESIGN AND CONSTRUCTION ADMINISTRATION SERVICES

PROVIDED BY THE STRUCTURAL ENGINEER.

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![](_page_7_Picture_25.jpeg)

![](_page_7_Picture_26.jpeg)

LARGER VALUE)

UP TO 6"

UP TO 3'-0"

UP TO 5'-0"

UP TO 7'-0"

OTHERWISE

![](_page_7_Picture_27.jpeg)

4

![](_page_7_Figure_30.jpeg)

✓ PL TO VERT, 1"

1/2" GAP, MAX - 1" LAP, MIN

![](_page_7_Figure_31.jpeg)

TYP STL SUPPORT FRAME AT ROOF **OPENINGS & EXHAUST FANS** S-100 3/4" = 1'-0"

5

ANGLE SIZES

NONE REQUIRED

L3-1/2x3-1/2x1/4

L5x3x1/4 (LLV)

L6x4x5/16 (LLV)

PROVIDE STEEL JOIST WEB REINFORCING PER 2/S-100

![](_page_7_Figure_33.jpeg)

TOP CHORD

CONCENTRATED LOAD

![](_page_7_Figure_35.jpeg)

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A3 LEVEL 1 - DEMO FLOOR PLAN

	6
Dem	olition General Notes
1.	THE CONTRACTOR SHALL VISIT THE SITE AND BECOME COMPLETELY FAMILAR WITH ALL EXISTING CONDITIONS IN THE AREAS OF CONSTRU- PRIOR TO SUBMITTING PRICES AND STARTING WORK. CONTRACTOR ANY DEVIATIONS FROM CONDITIONS INDICATED ON THE PLANS AND I THE ARCHITECT AND OWNER OF DEVIANCE.
2.	EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO DIMENSIONS UTILITIES, AND MATERIALS HAVE BEEN TAKEN FROM EXISTING DRAW AND/OR FIELD MEASUREMENTS. THE CONTRACTOR SHALL FIELD VER DIMENSIONS AND CONSTRUCTION PERTAINING TO EXISTING CONDITI PRIOR TO THE START OF DEMOLITION OR CONSTRUCTION.
8.	PROVIDE TEMPORARY EXIT PATH WHERE DEMOLITION MAY IMPEDE E EXIT WAY.
4.	THE CONTRACTOR SHALL MAINTAIN THE EXISTING STRUCTURAL AND FIREPROOFING INTEGRITY THROUGHOUT THE ENTIRE BUILDING ARE/
5. 6.	REMOVE EXISTING FLOORING FINISH AND WALL BASE IN AREAS OF W NEEDED. PENETRATIONS IN EXISTING CONCRETE FLOOR SLAB IS TO BE COORI
7	WITH STRUCTURAL REQUIREMENTS. ALL DIMENSIONS ARE TO BE FIEL VERIFIED.
'. 3.	PATCH AND REPAIR ALL EXISTING WALLS TO REMAIN AT LOCATION OF DEMOLITION TO PREPARE FOR NEW FINISHES.
).	COORDINATE INTERRUPTIONS OF UTILITIES AND SERVICES WITH OW
Dem	o Legend EXISTING TO REMAIN
	EXISTING TO BE REMOVED
= =	= = $=$ EXISTING WALL/ PARTITION TO BE REMOVED
	EXISTING PLUMBING FIXTURES TO BE REMOVED
	EXISTING DOOR OR WINDOW, FRAME AND HARDWARE TO BE REMOVED
	TO DETERMINE EXTENTS IN THE FIELD
_	- + + -
Dom	a Kaynatas
Donn	
02	REMOVE EXISTING GYP CEILING; REPAIR AND PATCH SURROUND
09 10	AS NEEDED. SALVAGE DOOR FOR INSTALLATION IN RENOVATION AREA SALVAGE WINDOW FOR INSTALLATION IN RENOVATION AREA
11 12	SALVAGE TOILET PLUMBING FIXTURES AND TOILET ACCESSORIE INSTALLATION IN RENOVATION AREA SALVAGE COUNTER, CABINETS, SINK AND ACCESSORIES FOR
13	INSTALLATION IN RENOVATION AREA SALVAGE SCRUB SINK AND ACCESSORIES FOR INSTALLATION IN RENOVATION AREA
14	SALVAGE BUILT IN EQUIPMENT CABINETS FOR INSTALLATION IN RENOVATION AREA SALVAGE SINK FOR INSTALLATION IN NEW WORK
16 17 18	REMOVE EXISTING CUBICLE CURTAIN AND TRACK         REMOVE EXISTING UPPER CABINET         REMOVE EXISTING PLATFORM
19 20 21	REMOVE EXISTING CEILING         SALVAGE 45 MIN DOOR FOR INSTALLATION IN NEW WORK         SALVAGE 20 MIN DOOR FOR INSTALLATION IN NEW WORK
22	SALVAGE VENDING MACHINE FOR INSTALLATION IN NEW WORK
Key I	Plan
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Plan Logend           Plan Lo	Plan Ger	neral Notes
Plan Legend Plan L	1. AL Dir	L DIMENSIONS ARE SHOWN FROM FINISHED FACE OF GYPSUM B MENSIONS LOCATING INTERIOR GYPSUM PARTITIONS ARE TO FIN
Plan Legend Plan L	FA 2. DII	CE OF PARTITION U.N.O. MENSIONS ON ARCHITECTURAL DRAWINGS LOCATING STRUCTU
PROVIDE RECORDENDA ON PERSIAN AT ALL ENANTRATION T         PROVIDE RECENTACIONE DE RESULTATION ALL DEVENTION ALL DEVENTION AT INCLUMENTALION NUMBER DE RECENTRACIONE DE RECENTRACIONE DE LICENTRACIONE DE RECENTRACIONE DE LICENTRACIONE DE RECENTRACIONE DE LICENTRACIONE DE RECENTRACIONE DE RECENTRACIÓN DE R	B. EX	(ISTING ASSEMBLIES AND NOT IN SCOPE EQUIPMENT AND FURNIT
Part Legend  Part Legend Part Part Part Part Part Part Part Part	. PR	IOWN HALFTONED FOR REFERENCE ONLY. ROVIDE FIRESTOPPING AND FIRE SEALS AT ALL PENETRATIONS TI
Ian Legend	TH RA	IE FIRE RATED ASSEMBLY. PROVIDE FIRE RATED SLIP JOINTS AT A TED WALL ASSEMBLIES.
Isin Legend	CC HL	)NTRACTOR TO PROVIDE FIRE RETARDENT WALL BACKING FOR A JNG EQUIPMENT AND FURNITURE.
Plan Legend	. AL AN	L LOW VOLTAGE BY OWNER, CONTRACTOR TO PROVIDE EMPTY ( ID BACK BOXES AS REQUIRED PER ELECTRICAL DRAWINGS.
Wall S MANNAM REQUERD WALL AS MATES CARACTER CAMPLES IN RE PLAN PORCEATION OF CARACTER AND THE PLAN INTERIOR PARTITION TYPE DU UNESS ON THE OUT INTERIOR PARTITION TYPE DU UNESS ON THE OUT INTERIOR PARTITION TYPE TO BE DOU. UNLESS NOTED OT I PROMINE GYPELIA BOARD CONTENT OF THE PLAN INTERIOR PROVIDE GYPELIA BOARD CONTENT OF THE PLAN INTERIOR PARTITION WALL REFER TO PARTITION IN AND TYPES ON AT INFORMATION WALL REFER TO PARTITION INTERIOR PROVIDE GYPELIA BOARD CONTENT OF THE PLAN INTERIOR PARTITION WALL REFER TO PARTITION INTERIOR INTERIOR PROVIDED TO THE PLAN INTERIOR PROVIDED IN AND TYPES ON AT INFORMATION WALL REFER TO PARTITION IN AND TYPES ON AT INFORMATION WALL REFER TO PARTITION IN AND TYPES ON AT INFORMATION WALL REFER TO PARTITION IN AND TYPES ON AT INFORMATION WALL REFER TO PARTITION IN AND TYPES ON AT INFORMATION WALL REFER TO PARTITION IN AND TYPES ON AT INFORMATION INFORMATION IN AND TYPE CONTENT OF THE PLAN INFORMATION IN AND THE CONTENCT OF BY OWNER EQUIPMENT I DEPARTION JOINT ED)           PART KANNED INFORMATION INFORMATION INFORMATION INFORMATION IN AND ALL SALVACED DINORS INFORMATION INFORMATION INFORMATION IN INSTALL SALVACED DINORS INFORMATION IN INSTALL SALVACED DINORS INFORMATION INSTALL SALVACED DINOR MOTION INSTALL SALVACED DINOR MOTION INSTALL SALVACED DINNE MOTION INSTALL SALVACED DINNE MOTION INSTALL SALVACED DINNE INFORMATION IN INSTALL SALVACED DINNE INFORMATION IN INSTALL SALVACED DINNE MOTION INSTALL SALVACED DINNE INFORMATION INFORMATION IN INSTALL SALVACED DINNE INFORMATION INFORMATION IN INSTALL SALVACED DINNE INFORMATION INFORMATION IN INSTALL SALVACED DINNE INFORMATION INFORMATI	. PA	TCH AND REPAIR ALL EXISTING WALLS FOR NEW FINISH.
Plan Legend           Plan Legend           Image: Plan Legend           Plan Legend           Image: Plan Legend           Plan Legend           Plan Legend           Image: Plan Legend           Plan Legend Legend	W/ RE	ALLS. MAINTAIN REQUIRED WALL RATING OR RATED CABINETS TO E: PLAN FOR LOCATION OF CABINETS.
10. TYPICAL INTERIOR PARTITION TYPE TO BE DOUT UNLESS NOTED OT         11. provide overall access of the set	9. FU PA	IRRING AROUND STRUCTURAL COLUMNS ARE TO BE IN INTERIOR ARTITIONS TYPE Df0 UNLESS OTHERWISE NOTED.
Image: Provide Gynamic Acade Coverage Academic Stream Control of Con	0. TY	PICAL INTERIOR PARTITION TYPE TO BE Db0, UNLESS NOTED OTH
Plan Legend Seg Plan	I1. PR GY TC	OVIDE GYPSUM BOARD CONTROL JOINTS AT DOOR HEADERS WI PSUM BOARD EXCEEDS 30 FEET (TYP.) UNLESS SHOWN OTHERV SPECIFICATION FOR LOCATIONS.
Plan Legend         Start YALLS         NEW NITERIOR PARTITION WALL GREEK TO DARTITUON SALL SALEST YALLS         NEW NITERIOR PARTITION WALL GREEK TO DARTITUON SALL SALEST YALLS         ADD TYPES ON A-718 FOR CONSTRUCTION AND DETAILIN         CENTERLINE         OLIMIT OF CONSTRUCTION         ADVE FLOOR LINE         CENTERLINE         DEVENTION ON LONTRACT or BY OWNER EQUIPMENT         DEVENTION JOINT (EU)         Plan Keynoles         KEYNOTE LEGEND (PER SHEET)         NISTALL SALVACED DOORS         NISTALL SALVACED POORS         NISTALL SALVACED ONNOR         NISTALL SALVACED SINK		
Plan Keynotes           Plan Keynotes           Key Plan	Plan Leç	gend
Plan Keynotes         KEYNOTE LEGEND (PER SHEET)         INSTALL SALVAGED POWNER EQUIPMENT         INSTALL SALVAGED POWNER         INSTALL SALVAGED SINK		REFER TO LIFE SAFETY PLANS FOR EXTENT OF FIRE RATI SHAFT WALLS.
Plan Keynotes		NEW INTERIOR PARTITION WALL. REFER TO PARTITION SO AND TYPES ON A-710 FOR CONSTRUCTION AND DETAILING
Plan Keynotes         Plan Keynotes         VEYNOTE LEGEND (PER SHEET)         21       INSTALL SALVAGED DOORS         22       INSTALL SALVAGED DOORS         23       INSTALL SALVAGED DOORS         24       INSTALL SALVAGED DOORS         25       INSTALL SALVAGED DOORS         26       INSTALL SALVAGED DOORS         27       INSTALL SALVAGED DOORS         28       INSTALL SALVAGED DOORS         29       INSTALL SALVAGED DOORS         20       INSTALL SALVAGED DOORS         21       INSTALL SALVAGED DOORS         22       INSTALL SALVAGED DOORS         23       INSTALL SALVAGED DOORS         24       INSTALL SALVAGED DONTR         25       INSTALL SALVAGED DONTR         26       INSTALL SALVAGED DONTR         27       INSTALL SALVAGED DONTR         28       INSTALL SALVAGED DONTR         29       INSTALL SALVAGED DONTR         20       INSTALL SALVAGED DONTR         20       INSTALL SALVAGED DONTR         20       INSTALL SALVAGED DONTR         20       INSTALL SALVAGED DONTR         21       INSTALL SALVAGED DONTR         22       INSTALL SALVAGED DONTR		LIMIT OF CONSTRUCTION
Plan Keynotes           Plan Keynotes           KEYNOTE LEGEND (PER SHEET)           1		ABOVE FLOOR LINE
Plan Keynotes           KEYNOTE LEGEND (PER SHEET)           1         INSTALI SALVAGED DOORS           2         INSTALI SALVAGED PUMBING PITURES AND TOILET ACCESS           26         INSTALI SALVAGED PUMBING PITURES AND TOILET ACCESS           27         INSTALI SALVAGED DUMBING PITURES AND TOILET ACCESS           28         INSTALI SALVAGED SINK           29         INSTALI SALVAGED SINK		CENTERLINE     NOT IN CONTRACT or BY OWNER EQUIPMENT
Plan Keynotes           KEYNOTE LEGEND (PER SHEET)           2         INSTALL SALVAGED DOORS           2         INSTALL SALVAGED VINDOW           23         INSTALL SALVAGED COUNTER, CABINETS, SINK AND ACCESSO           29         INSTALL SALVAGED VINDOW           21         INSTALL SALVAGED COUNTER, CABINETS, SINK AND ACCESSO           29         INSTALL SALVAGED VINDOW           31         INSTALL SALVAGED VINDOW           32         INSTALL SALVAGED VINDING MACHINE           33         INSTALL SALVAGED VINDING MACHINE		— – EXPANSION JOINT (EJ)
KEYNOTE LEGEND (PER SHEET)         21       INSTALL SALVAGED DOORS         22       INSTALL SALVAGED PUMBING FIXTURES AND TOILET ACCESS         25       INSTALL SALVAGED CONTER, CABINETS, SINK AND ACCESSO         26       INSTALL SALVAGED 20 MIN DOOR         21       INSTALL SALVAGED 20 MIN DOOR         22       INSTALL SALVAGED 20 MIN DOOR         23       INSTALL SALVAGED 20 MIN DOOR         24       INSTALL SALVAGED 20 MIN DOOR         25       INSTALL SALVAGED SINK		
21       INSTALL SALVAGED DOORS         22       INSTALL SALVAGED PLUMBING FIXTURES AND TOILET ACCESS         23       INSTALL SALVAGED 20 UNITER, CABINETS, SINK AND ACCESSO         23       INSTALL SALVAGED 20 MIN DOOR         31       INSTALL SALVAGED VENDING MACHINE         32       INSTALL SALVAGED VENDING MACHINE         33       INSTALL SALVAGED SINK	Plan Key	/notes KEYNOTE LEGEND (PER SHEET)
Z2       INSTALL SALVAGED WINDOW         Z4       INSTALL SALVAGED PLUMBING FIXTURES AND TOILET ACCESS         Z5       INSTALL SALVAGED ZO MIN DOOR         Z8       INSTALL SALVAGED 20 MIN DOOR         Z9       INSTALL SALVAGED 20 MIN DOOR         Z1       INSTALL SALVAGED 20 MIN DOOR         Z2       INSTALL SALVAGED 20 MIN DOOR         Z3       INSTALL SALVAGED WINDOW         Z2       INSTALL SALVAGED WINDOW         Z3       INSTALL SALVAGED WINDOW         Z3       INSTALL SALVAGED SINK	21	INSTALL SALVAGED DOORS
28     INSTALL SALVAGED 45 MIN DOOR       29     INSTALL SALVAGED VENDING MACHINE       32     INSTALL SALVAGED VINDOW       33     INSTALL SALVAGED SINK	22 24 25	INSTALL SALVAGED WINDOW INSTALL SALVAGED PLUMBING FIXTURES AND TOILET ACCESS INSTALL SALVAGED COUNTER, CABINETS, SINK AND ACCESSO
Key Plan	28	INSTALL SALVAGED 45 MIN DOOR INSTALL SALVAGED 20 MIN DOOR
Key Plan	31 32 33	INSTALL SALVAGED VENDING MACHINE INSTALL SALVAGED WINDOW INSTALL SALVAGED SINK
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![](_page_11_Figure_1.jpeg)

![](_page_11_Figure_2.jpeg)

![](_page_11_Figure_3.jpeg)

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 				J
			 	J6
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	PRE/POST REÇOV. 1650C	ELECTRICAL 1656		J2
RECOVERY 1648 PR	PROCEDURE EP/RECOVERY 1650B	PROCEDURE SUPERVISOR OFFICE 1655	CORRIDOR C-1700A	J6
	PROCEDURE EP/RECOVERY 1650A C06	NURSE CONTROL/ PHYSICIAN 1654		— К — L
PROC. H\$KG AS STOR 1651 1652	GEN. STORAGE	IMAGING WAITING 1660		
IMAGING DIRECTOR OFFICE 1663	EONE DENSITY 1649	CENTRAL TECH WORK 1657	CORRIDOR C-1600I	M
				(N

1.	THIS DRAWING IS INTENDED TO SHOW CEILING MATERIAL AND CHEIGHT.
2.	ALL CEILINGS TO BE 9'-0" ABOVE FINISH FLOOR UNLESS NOTED
3.	GYPSUM CEILINGS IN RESTROOMS TO BE 8'-0" UNLESS NOTED C WET LOCATIONS TO BE PAINTED WITH EPOXY PAINT.
4.	REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS AND QUANT LIGHTING FIXTURES. LIGHT FIXTURES TO BE CENTERED ON CEIL UNLESSS NOTED OTHERWISE.
5.	REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUAN SUPPLY AND RETURN AIR DIFFUSERS.
6.	PROVIDE FIRE SPRINKLERS TO MEET NFPA 13.
7.	FIRE SPRINKLERS AND ALARM SYSTEM COMPONENTS TO BE CE 2X2 ACOUSTICAL CEILING PANELS OR AT 1/4 POINTS IN 4" DIREC SPRINKLER HEADS TO BE SEMI-RECESSED.
8.	ALLOW FOR 1" DEFLECTION AT PARTITION HEAD OF WALL.
9.	ALL ACOUSTICAL CEILINGS SHALL BE CENTERED IN THE ROOM UNITED OTHERWISE.
10.	PAINT ALL GRILLES, REGISTERS, DIFFUSERS, ACCESS PANELS, THE SAME COLOR AS THE SURFACE IT APPEARS ON (TYPICAL).
Dee	f Plan General Notes

ighting S	ymbol Legend	
	RECESSED IN GRADE	
	STAKE MOUNT ACCENT	
0 🗆	BOLLARD	ØØ RECESSED WALLWA
$\Phi \oplus$	PENDANT	-今中 SURFACE MOUNT DC
<u>+</u> +	SCONCE	+ TRACK HEAD
	STEP LIGHT	□ LINEAR EXTRUSION
<b>@</b>	ILUMINATED MIRROR	

Reflected Ceiling Plan Symbol Leo	lend

Reflected Ceiling F	lan Symbol Legend
	MECHANICAL DIFFUSER (SUPPLY)
	MECHANICAL DIFFUSER (RETURN)
<u>×</u>	EXIT SIGN
	GYPSUM BOARD CEILING
	ACOUSTICAL CEILING TILE
	ACOUSTICAL CEILING TILE, WASHABLE
	CUBICLE CURTAIN TRACK
X'-X"	CEILING HEIGHT ABOVE FINISHED FLOOR
	DPA FINISH MATERIAL TAG
	ABOVE FLOOR LINE
	EXPANSION JOINT (EJ)
Roof Plan Keynote	S
	02 - 100 - KEYNOTE LEGEND - ROOF
Key Value	Keynote Text
R06 ROOF TO	OP UNIT; RE: MECHANICAL
Reflected Ceiling F	Plan Keynotes
Key Value	02 - 100 - KEYNOTE LEGEND - RCP Keynote Text
C07 MATCH N	NEW GRID TO EXISTING CEILING GRID
Key Plan	
5	
	│

![](_page_11_Figure_11.jpeg)

![](_page_12_Figure_0.jpeg)

1

2

## A3 CLEAN STORAGE EAST

3

![](_page_12_Figure_3.jpeg)

![](_page_12_Figure_4.jpeg)

# B4 CLEAN WORK SOUTH

4

![](_page_12_Figure_6.jpeg)

(SWP1)

![](_page_12_Figure_7.jpeg)

![](_page_12_Figure_8.jpeg)

![](_page_12_Figure_10.jpeg)

(SWP1)

![](_page_12_Figure_11.jpeg)

![](_page_12_Figure_12.jpeg)

# EQUIPMENT STORAGE 1642A ENDO 1643 **HSKP** 1642B F5 A-400 UNRESTRICTED CORRIDOR C-1600F CORRIDOR C-1600C

## D3 SOILED WORK NORTH

LEVEL 1 100'-0"

## D4 OR WEST

![](_page_12_Figure_17.jpeg)

![](_page_12_Figure_18.jpeg)

![](_page_12_Figure_19.jpeg)

![](_page_12_Figure_20.jpeg)

4

## A4 CLEAN WORK WEST

![](_page_12_Figure_22.jpeg)

LEVEL 1 100'-0"

### (EPT1) \_ \_ \_| (INT1) \_\_\_\_ \_ \_ \_

6

## B6 CLEAN WORK NORTH

5

RELOCATED WINDOW\_ PASS-THROUGH

A6 CLEAN WORK EAST

![](_page_12_Figure_25.jpeg)

## C6 OR EAST

![](_page_12_Figure_27.jpeg)

## D6 OR SOUTH

## E6 OR NORTH

![](_page_12_Figure_30.jpeg)

![](_page_12_Figure_31.jpeg)

2. REFER TO Q SERIES FOR MEDICAL EQUIPMENT
Interior Elevation Legend
A. 000 EQUIPMENT TAG. SEE Q-121.A & Q-121.B FOR EQUIPMENT SC
B. ? FINISH TAG. SEE I-600 FOR FINISH LEGEND AND NOTES
C. BODG2 36 36 24 CASEWORK TAG. SEE A-590 FOR CASEWORK DETAILS
D. – – EQUIPMENT, RE: Q SHEETS

Interior Elevations General Notes REFER TO A-760 FOR INTERIOR MOUNTING HEIGHTS REFER TO Q SERIES FOR MEDICAL EQUIPMENT

![](_page_12_Figure_38.jpeg)

![](_page_13_Figure_0.jpeg)

B

Α

1

![](_page_13_Figure_1.jpeg)

![](_page_13_Figure_2.jpeg)

![](_page_13_Figure_3.jpeg)

4

![](_page_13_Figure_4.jpeg)

![](_page_13_Figure_5.jpeg)

3

![](_page_13_Figure_7.jpeg)

![](_page_13_Figure_10.jpeg)

- SALVAGED SOAP DISPENSER

<<u>CWT1</u>>

CWT2

-CWT1

-SCHLUTER DILEX-AHK

-SALVAGED BABY CHANGING STATION

D2 **RECOVERY EAST** 

## D3 ED CLEAN UTILITY ENLARGED FLOOR PLAN D4 ED CLEAN UTILITY EAST

![](_page_13_Figure_12.jpeg)

4

![](_page_13_Figure_13.jpeg)

5

![](_page_13_Figure_14.jpeg)

## B5 HSKG EAST

![](_page_13_Figure_16.jpeg)

![](_page_13_Figure_17.jpeg)

(FLM<sup>·</sup>

![](_page_13_Figure_18.jpeg)

-CWT1>

\_SALVAGED PAPER TOWEL DISPENSER

![](_page_13_Figure_19.jpeg)

6

![](_page_13_Figure_20.jpeg)

(EPT1)

5

## Interior Elevations General Notes REFER TO A-760 FOR INTERIOR MOUNTING HEIGHTS REFER TO Q SERIES FOR MEDICAL EQUIPMENT Interior Elevation Legend A. 000 EQUIPMENT TAG. SEE Q-121.A & Q-121.B FOR EQUIPMENT SCHEDULE B. ? FINISH TAG. SEE I-600 FOR FINISH LEGEND AND NOTES C. BODG2 CASEWORK TAG. SEE A-590 FOR CASEWORK DETAILS 36 36 24 D. – – – EQUIPMENT, RE: Q SHEETS

![](_page_13_Figure_22.jpeg)

![](_page_14_Figure_0.jpeg)

![](_page_14_Figure_1.jpeg)

![](_page_14_Figure_2.jpeg)

![](_page_14_Figure_3.jpeg)

A4 SECTION - TYPICAL FEC - WALL

4

3

09 2216 - NON-STRUCTURAL METAL FRAMING

5

## <u>NOTE:</u> MAINTAIN THE INTEGRITY OF THE PARTITION TYPE FIRE RATING.

10 4413 - FIRE-PROTECTION CABINET

09 2900 - INTERIOR GYPSUM BOARD

09 2216 - NON-STRUCTURAL METAL FRAMING

## A6 COUNTERTOP - STAINLESS STEEL

6

![](_page_14_Figure_16.jpeg)

## **PLAN DETAIL - 1-HOUR FIRE PARTITION TO** C6 EXISTING 1 1/2" = 1'-0"

![](_page_14_Figure_18.jpeg)

## D6 GYP SOFFIT TO ACT, TYPICAL

![](_page_14_Figure_20.jpeg)

![](_page_14_Figure_21.jpeg)

ABBREVIATION	DESCRIPTION
	-
ACC	ACOUSTICAL CEILING CLOUD
ACT	
AMC	ACOUSTICAL METAL CEILING ACOUSTICAL WOOD CEILING
EXP	EXPOSED
GYP	GYPSUM CEILING
RP (C)	RESIN PANEL
CF	CORK FLOORING
CPT	CARPET
FT I N	FLOOR TRANSITION
LVT	LUXURY VINYL TILE
PE	POURED EPOXY
PFT	PORCELAIN TILE
RF SC	RUBBER SEALED CONCRETE
SD	STATIC DISSIPATIVE
SFT	STONE FLOOR TILE
SV	STAINED CONCRETE SHEET VINYL
TZ	TERRAZZO
VCT WDF	
MILLWORK FINISH	
см CTC	CROWN MOLDING CONCRETE COUNTERTOP
ML	METAL LAMINATE
MT	
PL	PLASTIC LAMINATE
QTZ	QUARTZ
кү (M) SP	KESIN PANEL SOLID PHENOLIC
SS	SOLID SURFACE
ST	
UPF	UPHOLSTERY FABRIC
WDT	WOOD TRIM
MISCELLANEOUS	
(E)	EXISTING
MPT	METAL PAINT
SHC	SHOWER CURTAIN
WDS	WOODSTAIN
WALL BASE FINISHE	S
INT PTB	INTEGRAL BASE
RB	RUBBER BASE
SSB	SOLID SURFACE BASE
SIS TZB	STAINLESS STEEL BASE TERRAZO BASE
WB	WOOD BASE
AWP	ACOUSTICAL WALL P ANEL
BR	BRICK
GL	GLASS WALL
GWT	GLASS WALL TILE
MIL MWT	METAL (SHEET GOODS)
PT	PAINT
	PORCELAIN WALL TILE
SS	SOLID SURFACE
ST	STONE
SWT TS	STONE WALL TILE
UWP	UPHOLSTERED WALL PANEL
VWC	VINYL WALL COVERING
WDV	VINYL WALL GRAPHIC WOOD VENEER
CG	CORNER GUARD
CHR	CHAIR RAIL
CR FRP	
HR	HAND RAIL
SWP	SHEET WALL PROTECTION
WINDOWS	
DG	DECORATIVE GLASS
DR	DRAPERY
	MINI BLIND
-LM MB RS	MINI BLIND ROLLER SHADE

![](_page_15_Figure_1.jpeg)

![](_page_15_Figure_2.jpeg)

![](_page_15_Figure_3.jpeg)

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			3			4				5
					FINISH SCI	HEDULE				
	FINISH		MANUFACTURE							SPE
FINISH TYPE	CODE	DESCRIPTION	R	SERIES/PATTERN	NUMBER	COLOR	SIZE		FINISH REMARKS	SECTIO
CEILING FINISHES										
CEILING FINISHES	ACT1	ACOUSTICAL CEILING TILE	ARMSTRONG	CLEAN ROOM VL / SQUARE LAY IN	870	WHITE	2' x 4'	PROVIDE 15/16 PRE	ELUDE XL WHITE GRID	09 5113
DOOR FINISHES										
DOOR FINISHES	DOOR			MATCH EXISTING						
DOOR FINISHES	PT3	DOOR FRAME PAINT		SEMI-GLOSS		MATCH EXISTING				09 9123
-LOOR FINISHES	CPT1				8316					00 6813
FLOOR FINISHES	CFTT	CARFEI	COMMERCIAL		0310	COFFER				09 00 13
FLOOR FINISHES	FT1	FLOOR TRANSITION	SCHLUTER	RENO-TK	AE			TILE TO CARPET TF	ANSITION - MUST BE ADA COMPLIANT	09 6516
FLOOR FINISHES	LVT1	LUXURY VINYL TILE	MANNINGTON			TBD				09 6519
FLOOR FINISHES	PFT1	PORCELAIN FLOOR TILE	AMERICAN OLEAN	UNION	UN02	WEATHERED BEIGE	12" X 24"	1/3 OFFSET INSTAL	ATION; EPOXY GROUT: TBD	09 3013
FLOOR FINISHES	SV1	SHEET VINYL	MANNINGTON	BIOSPEC ARMOR	OR117	ALPACA		HEAT WELD WITH N	IATCHING ROD	09 6516
FLOOR FINISHES	SV2	SHEET VINYL	MANNINGTON	BIOSPEC ARMOR	OR119	HAYSTACK		HEAT WELD WITH N	IATCHING ROD	09 6516
FLOOR FINISHES	SV3	SHEET VINYL	MANNINGTON COMMERCIAL	BIOSPEC ARMOR	OR108	CHERRY TOMATO	ROLL	HEAT WELD WITH N	IATCHING ROD	09 6516
				1						I
MILLWORK FINISHES										
MILLWORK FINISHES	PL1		NEVAMAR	TEXTURED/SUEDE FNISH	WM5577		4 /0!!			06 4116
MILLWORK FINISHES	551	SOLID SURFACE	CORIAN			SAHARA	1/2"			12 3661.16
MISCELLANEIOUS										
MISCELLANEIOUS	FLM1	3M	FASARA	FROST/MATTE	SH2FNCR 1270	FINE CRYSTAL				08 8113
WALL BASE FINISHES							0"			
										00 2012
WALL BASE FINISHES	RB1	RUBBER BASE			150		JIZE AS RETD			09 3013
			TARKETT	DUINOUVE	150					
WALL FINISHES										
WALL FINISHES	CWT1	PORCELAIN WALL TILE	CROSSVILLE	COLOR BY NUMBERS SATIN	WT07S	SEVENTH INNING STRETCH	4" X 12"	STACKED HORIZON	TAL INSTALLATION, GROUT: TBD	09 3013
WALL FINISHES	CWT2	PORCELAIN WALL TILE	CROSSVILLE	COLOR BY NUMBERS SATIN	WT08S	EIGHT DAYS A WEEK	4" X 12"	STACKED VERTICA	INSTALLATION, GROUT: TBD	09 3013
WALL FINISHES	EPT1	EPOXY PAINT	SHERWIN WILLIAMS	MATCH EXISTING KWAL	CLC1250M	SOYA BEAN		ALL ROOMS IN SCO	PE	09 9123
WALL FINISHES	WT1	WALL TRIM	SCHLUTER	JOLLY	AE		SIZE AS RE1'D			09 3013
WALL GUARDS	BG1		INPRO	1600	258	CHINO				10 2600
WALL GUARDS	CG1		INPRO	160 SERIES	258	CHINO	4' H			10 2000
WALL GUARDS	SWP1	SHEET WALL PROTECTION	INPRO	SANPARREL	258	CHINO	.060" THICK			10 2600

A. ALL PAINT ALL WALL B. ALL PAINT SEMI-GLO C. PAINT ALL D. ALL PAINT E. ALL EXPO LOCATION OCCUR, U F. ALL FLOO SEAMS IN G. ALL CEILII OCCURS. H. ALL PAINT HEIGHT V I. PROVIDE STARTING J. SHEET W K. PROVIDE FOR ALL J. SHEET W K. PROVIDE FOR ALL I. ALL OPEN STEEL TU M. PROVIDE N. ALL GROU O. FINISH AL CEILING F P. ALL GYP O PAINT IN FINISH SYMBOL	AT FINISHES TO LS TO BE PAIN IT FINISHES TO TOILET ROOD OSS EPOXY PA L HOLLOW ME IT TO BE LOW OSED GRILLS, DY TO BE PAIN U.N.O. OR FINISH CHA N FRONT OF D ING GRID WAI S CORNER GU G AT THE TOP VALL PROTECT E AND INSTALL ADA TOILET F N BELOW COU UBE SUPPORT E FINISHES TH REQUIREMENT ADA TOILET F N BELOW COU UBE SUPPORT E FINISHES TH REQUIREMENT ADA TOILET AND S PLAN FOR CE CEILINGS TO TOILET AND S	O BE SATIN: (2) COATS OVER (1) COAT PRIMER NTED PT1 U.N.O. O BE EGGSHELL, U.N.O. (2) COATS OVER (1) CO MAS, EVS, CLEAN AND SOILED ROOMS TO RECE ?AINT, U.N.O. IETAL DOOR FRAMES PTxxx SEMI-GLOSS. (- VOC: LESS THEN 50 G/L FOR UNTINTED BASIS REGISTERS, DIFFUSERS AND ACCESS PANEL WIED TO MATCH THE SURFACE ON WHICH THE DANGES TO BE AT CENTER OF DOORWAYS U.N. DOORWAYS. LL ANGLES TO BE SEALED AT WALL WHERE P/ D BE MOCKED-UP ON SITE ON ONE ENTIRE FUL WNER APPROVAL PRIOR TO ORDERING PRODU JARDS WHERE INDICATED. APPLY CORNER GL P OF THE WALL BASE. U.N.O CTION TO BE INSTALLED ABOVE WALL BASE. L ADA COMPLIANT SIGNAGE. AS REQUIRED BY ROOMS AND SERVICE ROOMS. UNTERTOPS IN NEW WALLS TO INCLUDE IN W/ T, 36° O.C. RE: DETAILS TAT COMPLY WITH AND MEET THE FLAME SPRE USS FROM SECTION 803 AND TABLE 803.13 OF T DING CODE. LECTED BY ARCHITECT. SOFFIT OR GYP. CEILING. REFER TO REFLECTE ELING PAINT ACCENTS PBE PT1, U.N.O. PROVIDE MOLD RESISTANT EF SHOWER ROOMS.
B. ALL PAINT PRIMER. SEMI-GLO C. PAINT ALL D. ALL PAINT E. ALL EXPO LOCATION OCCUR, U F. ALL FLOO SEAMS IN G. ALL CEILIN OCCURS. H. ALL PAINT HEIGHT V I. PROVIDE STARTING J. SHEET W K. PROVIDE FOR ALL J. SHEET W K. PROVIDE FOR ALL C. ALL OPEN STEEL TU M. PROVIDE N. ALL GROU O. FINISH AL CEILING F P. ALL GYP O PAINT IN FINISH SYMBOL	IT FINISHES TO TOILET ROOT OSS EPOXY P L HOLLOW MI IT TO BE LOW OSED GRILLS, DY TO BE PAIN U.N.O. OR FINISH CH/ N FRONT OF D ING GRID WAI S. IT COLORS TO CORNER GU G AT THE TOP VALL PROTECT E AND INSTALL ADA TOILET F N BELOW COU UBE SUPPORT E FINISHES TH REQUIREMENT TOILET AND S I Legend	O BE EGGSHELL, U.N.O. (2) COATS OVER (1) CO MS, EVS, CLEAN AND SOILED ROOMS TO RECO ANNT, U.N.O. IETAL DOOR FRAMES PTXXX SEMI-GLOSS. (- VOC: LESS THEN 50 G/L FOR UNTINTED BASI REGISTERS, DIFFUSERS AND ACCESS PANEL WITED TO MATCH THE SURFACE ON WHICH THE ANGES TO BE AT CENTER OF DOORWAYS U.N. DOORWAYS. ILL ANGLES TO BE SEALED AT WALL WHERE P/ D BE MOCKED-UP ON SITE ON ONE ENTIRE FUL WNER APPROVAL PRIOR TO ORDERING PRODU VINER APPROVAL PRIOR TO ORDERING PRODU VINER APPROVAL PRIOR TO ORDERING PRODU STION TO BE INSTALLED ABOVE WALL BASE. L ADA COMPLIANT SIGNAGE, AS REQUIRED BY ROOMS AND SERVICE ROOMS. UNTERTOPS IN NEW WALLS TO INCLUDE IN W/ T, 36" O.C. RE: DETAILS TAT COMPLY WITH AND MEET THE FLAME SPRE ITS FROM SECTION 803 AND TABLE 803.13 OF TO DING CODE. LECTED BY ARCHITECT. SOFFIT OR GYP, CEILING, REFER TO REFLECTE ELLING PAINT ACCENTS P BE PT1, U.N.O. PROVIDE MOLD RESISTANT EF SHOWER ROOMS. FINISH EXTENTS AT ACCENT WALL FINISH MATERIAL TAG CORNER GUARD SWP1 TO 54" A.F.F., INT1 SWP1 TO 54" A.F.F., BG1 TOP AT 40" A.F.F. SWP1 TO 52" A.F.F., BG1 TOP AT 40" A.F.F. CPT1
C. PAINT ALL D. ALL PAINT E. ALL EXPC LOCATION OCCUR, U F. ALL FLOO SEAMS IN G. ALL CEILI OCCURS. H. ALL PAINT HEIGHT V I. PROVIDE STARTING J. SHEET W K. PROVIDE FOR ALL L. ALL OPEN STEEL TU M. PROVIDE RATING R INTERNAT N. ALL GROU O. FINISH AL CEILING F P. ALL GYP O PAINT IN Finish Symbol	L HOLLOW MA IT TO BE LOW OSED GRILLS, DY TO BE PAIN U.N.O. OR FINISH CH/ N FRONT OF D ING GRID WAI COLORS TO COLORS TO COLORS TO TOILET AND SEL UBE SUPPORT FINISHES TH REQUIREMENT ADA TOILET F N BELOW COL UBE SUPPORT FINISHES TH REQUIREMENT ADA TOILET AND S LLEGEND LL SIDES OF S PLAN FOR CE CEILINGS TO TOILET AND S LLEGEND	IETAL DOOR FRAMES PTxxx SEMI-GLOSS. (- VOC: LESS THEN 50 G/L FOR UNTINTED BASK (- VOC: LESS THEN 50 G/L FOR UNTINTED BASK (- REGISTERS, DIFFUSERS AND ACCESS PANEL INTED TO MATCH THE SURFACE ON WHICH THE IANGES TO BE AT CENTER OF DOORWAYS U.N. DOORWAYS. LL ANGLES TO BE SEALED AT WALL WHERE P/ D BE MOCKED-UP ON SITE ON ONE ENTIRE FUL WNER APPROVAL PRIOR TO ORDERING PRODU JARDS WHERE INDICATED. APPLY CORNER GL P OF THE WALL BASE. U.N.O DTION TO BE INSTALLED ABOVE WALL BASE. L ADA COMPLIANT SIGNAGE. AS REQUIRED BY ROOMS AND SERVICE ROOMS. UNTERTOPS IN NEW WALLS TO INCLUDE IN W/ T, 36" O.C. RE: DETAILS 4AT COMPLY WITH AND MEET THE FLAME SPRI ITTS FROM SECTION 803 AND TABLE 803.13 OF TO DING CODE. LECTED BY ARCHITECT. SOFFIT OR GYP. CEILING. REFER TO REFLECTE SUMPLY WITH AND MEET THE FLAME SPRI ITS FROM SECTION 803 AND TABLE 803.13 OF TO DING CODE. LECTED BY ARCHITECT. SOFFIT OR GYP. CEILING. REFER TO REFLECTE SUMPLY OF A.CENTS P BE PT1, U.N.O. PROVIDE MOLD RESISTANT EF SHOWER ROOMS. FINISH EXTENTS AT ACCENT WALL FINISH MATERIAL TAG CORNER GUARD SWP1 TO 54" A.F.F., INT1 SWP1 TO 54" A.F.F., BG1 TOP AT 40" A.F.F. SWP1 TO 52" A.F.F., BG1 TOP AT 40" A.F.F. CPT1 LVT1
E. ALL EXPO LOCATION OCCUR, U F. ALL FLOC SEAMS IN G. ALL CEILI OCCURS. H. ALL PAINT HEIGHT V I. PROVIDE STARTING J. SHEET W K. PROVIDE FOR ALL L. ALL OPEN STEEL TU M. PROVIDE RATING R INTERNAT N. ALL GROU O. FINISH AL CEILING F P. ALL GYP O PAINT IN FINISH SYMBOI	OSED GRILLS, NTO BE PAIN U.N.O. OR FINISH CH/ N FRONT OF D ING GRID WAI COLORS TO WALL FOR OW E CORNER GU G AT THE TOP VALL PROTECT ADA TOILET F N BELOW COU UBE SUPPORT FINISHES TH REQUIREMENT ADA TOILET AND S PLAN FOR CE CEILINGS TO TOILET AND S I Legend	<ul> <li>FIGUE LESS METROS OF FOR ONTITLED BACK</li> <li>, REGISTERS, DIFFUSERS AND ACCESS PANEL NITED TO MATCH THE SURFACE ON WHICH THE</li> <li>IANGES TO BE AT CENTER OF DOORWAYS U.N. DOORWAYS.</li> <li>ILL ANGLES TO BE SEALED AT WALL WHERE PA</li> <li>D BE MOCKED-UP ON SITE ON ONE ENTIRE FUL WNER APPROVAL PRIOR TO ORDERING PRODUL</li> <li>JARDS WHERE INDICATED. APPLY CORNER GL P OF THE WALL BASE. U.N.O</li> <li>CTION TO BE INSTALLED ABOVE WALL BASE.</li> <li>L ADA COMPLIANT SIGNAGE. AS REQUIRED BY ROOMS AND SERVICE ROOMS.</li> <li>UNTERTOPS IN NEW WALLS TO INCLUDE IN WA T, 36" O.C. RE: DETAILS</li> <li>MAT COMPLY WITH AND MEET THE FLAME SPRI ITS FROM SECTION 803 AND TABLE 803.13 OF T DING CODE.</li> <li>LECTED BY ARCHITECT.</li> <li>SOFFIT OR GYP. CEILING. REFER TO REFLECTE SUNG PAINT ACCENTS</li> <li>P BE PT1, U.N.O. PROVIDE MOLD RESISTANT EF SHOWER ROOMS.</li> <li>FINISH EXTENTS AT ACCENT WALL</li> <li>FINISH MATERIAL TAG</li> <li>CORNER GUARD</li> <li>SWP1 TO 54" A.F.F., BG1 TOP AT 40" A.F.F.</li> <li>SWP1 TO 52" A.F.F, BG1 TOP AT 40" A.F.F.</li> <li>CPT1</li> <li>LVT1</li> </ul>
CCCUR, L F. ALL FLOC SEAMS IN G. ALL CEILI OCCURS. H. ALL PAINT HEIGHT W I. PROVIDE STARTING J. SHEET W K. PROVIDE FOR ALL I. ALL OPEN STEEL TU M. PROVIDE RATING R INTERNA N. ALL GROU O. FINISH AL CEILING F P. ALL GYP O PAINT IN Finish Symbol	U.N.O. OR FINISH CHANNER CHANNER CONTROL IN ING GRID WALL STOLORS TO WALL FOR OW IG AT THE TOP VALL PROTECT ADA TOILET FINISHES TH REQUIREMENT ADA TOILET SUPPORT FINISHES OF S PLAN FOR CE CEILINGS TO TOILET AND S I Legend	ANGES TO BE AT CENTER OF DOORWAYS U.N. DOORWAYS. ALL ANGLES TO BE SEALED AT WALL WHERE PA D BE MOCKED-UP ON SITE ON ONE ENTIRE FUL WNER APPROVAL PRIOR TO ORDERING PRODU JARDS WHERE INDICATED. APPLY CORNER GU P OF THE WALL BASE. U.N.O STION TO BE INSTALLED ABOVE WALL BASE. L ADA COMPLIANT SIGNAGE. AS REQUIRED BY ROOMS AND SERVICE ROOMS. UNTERTOPS IN NEW WALLS TO INCLUDE IN WA T, 36° O.C. RE: DETAILS HAT COMPLY WITH AND MEET THE FLAME SPRE HAT CORNER GUARD SWP1 TO 54" A.F.F., BG1 TOP AT 40" A.F.F. SWP1 TO 52" A.F.F., BG1 TOP AT 40" A.F.F. CPT1 LVT1
G. ALL CEILII OCCURS. H. ALL PAIN HEIGHT V I. PROVIDE STARTING J. SHEET W K. PROVIDE FOR ALL L. ALL OPEN STEEL TU M. PROVIDE RATING R INTERNA N. ALL GROU O. FINISH AL CEILING F P. ALL GYP O PAINT IN Finish Symbol	N FRONT OF D	DOORWAYS. LL ANGLES TO BE SEALED AT WALL WHERE PA D BE MOCKED-UP ON SITE ON ONE ENTIRE FUL WNER APPROVAL PRIOR TO ORDERING PRODU JARDS WHERE INDICATED. APPLY CORNER GU P OF THE WALL BASE. U.N.O STION TO BE INSTALLED ABOVE WALL BASE. L ADA COMPLIANT SIGNAGE. AS REQUIRED BY ROOMS AND SERVICE ROOMS. UNTERTOPS IN NEW WALLS TO INCLUDE IN WA T, 36° O.C. RE: DETAILS 4AT COMPLY WITH AND MEET THE FLAME SPREE ITS FROM SECTION 803 AND TABLE 803.13 OF TO DING CODE. LECTED BY ARCHITECT. SOFFIT OR GYP. CEILING. REFER TO REFLECTE SUBJECTED BY ARCHITECT. SOFFIT OR GYP. CEILING. REFER TO REFLECTE SUBJECTION 803 AND TABLE 803.13 OF TO P BE PT1, U.N.O. PROVIDE MOLD RESISTANT EF SHOWER ROOMS. FINISH EXTENTS AT ACCENT WALL FINISH MATERIAL TAG CORNER GUARD SWP1 TO 54" A.F.F., BG1 TOP AT 40" A.F.F. SWP1 TO 54" A.F.F., BG1 TOP AT 40" A.F.F. SWP1 TO 52" A.F.F., BG1 TOP AT 40" A.F.F. SWP1 TO 52" A.F.F., BG1 TOP AT 40" A.F.F.
<ul> <li>ALL PAINT HEIGHT V</li> <li>I. PROVIDE STARTING</li> <li>J. SHEET W</li> <li>K. PROVIDE FOR ALL</li> <li>L. ALL OPEN STEEL TU</li> <li>M. PROVIDE RATING R INTERNATION O. FINISH AL CEILING F</li> <li>P. ALL GYP O PAINT IN</li> <li>Finish Symbol</li> <li>XX#</li> <li>XX#</li> </ul>	ADD INSTALL ADA TOILET F N BELOW COU UBE SUPPORT FINISHES TH REQUIREMENT TIONAL BUILD OUT TO BE SEL LL SIDES OF S PLAN FOR CE CEILINGS TO TOILET AND S	D BE MOCKED-UP ON SITE ON ONE ENTIRE FUL WNER APPROVAL PRIOR TO ORDERING PRODU JARDS WHERE INDICATED. APPLY CORNER GU P OF THE WALL BASE. U.N.O STION TO BE INSTALLED ABOVE WALL BASE. L ADA COMPLIANT SIGNAGE. AS REQUIRED BY ROOMS AND SERVICE ROOMS. UNTERTOPS IN NEW WALLS TO INCLUDE IN WA T, 36" O.C. RE: DETAILS HAT COMPLY WITH AND MEET THE FLAME SPRE ITS FROM SECTION 803 AND TABLE 803.13 OF T DING CODE. LECTED BY ARCHITECT. SOFFIT OR GYP. CEILING. REFER TO REFLECTE ELUNG PAINT ACCENTS P BE PT1, U.N.O. PROVIDE MOLD RESISTANT EF SHOWER ROOMS. FINISH EXTENTS AT ACCENT WALL FINISH MATERIAL TAG CORNER GUARD SWP1 TO 54" A.F.F., INT1 SWP1 TO 54" A.F.F., BG1 TOP AT 40" A.F.F. SWP1 TO 52" A.F.F., BG1 TOP AT 40" A.F.F. CPT1
HEIGHT W         I.       PROVIDE STARTING         J.       SHEET W         K.       PROVIDE FOR ALL         L.       ALL OPEN STEEL TU         M.       PROVIDE RATING R INTERNATION OF PAINT IN THE PAINT INTIN THE PAINT IN THE PAINT IN THE PAINT IN THE P	WALL FOR OW CORNER GU IG AT THE TOP VALL PROTEC ADD INSTALL ADD INSTALL ADD INSTALL ADD TOILET F N BELOW COU UBE SUPPORT FINISHES TH REQUIREMENT ADD TO BE SEL LL SIDES OF S PLAN FOR CE CEILINGS TO TOILET AND S I Legend	AND APPROVAL PRIOR TO ORDERING PRODUCTION OF A PORTHE WALL BASE. UNIO STION TO BE INSTALLED ABOVE WALL BASE. L ADA COMPLIANT SIGNAGE. AS REQUIRED BY ROOMS AND SERVICE ROOMS. UNTERTOPS IN NEW WALLS TO INCLUDE IN WA T, 36" O.C. RE: DETAILS HAT COMPLY WITH AND MEET THE FLAME SPREIT TIS FROM SECTION 803 AND TABLE 803.13 OF TO DING CODE. LECTED BY ARCHITECT. SOFFIT OR GYP. CEILING. REFER TO REFLECTE EILING PAINT ACCENTS PBE PT1, U.N.O. PROVIDE MOLD RESISTANT EF SHOWER ROOMS. FINISH EXTENTS AT ACCENT WALL FINISH MATERIAL TAG CORNER GUARD SWP1 TO 54" A.F.F., INT1 SWP1 TO 54" A.F.F., BG1 TOP AT 40" A.F.F. SWP1 TO 52" A.F.F, BG1 TOP AT 40" A.F.F. CPT1 LVT1
J. SHEET W K. PROVIDE FOR ALL L. ALL OPEN STEEL TU M. PROVIDE RATING R INTERNA N. ALL GROU O. FINISH AL CEILING F P. ALL GYP O PAINT IN Finish Symbol XX#	AND INSTALL ADA TOILET F N BELOW COLUBE SUPPORT FINISHES TH REQUIREMENT TIONAL BUILD OUT TO BE SEL LL SIDES OF S PLAN FOR CE CEILINGS TO TOILET AND S	<ul> <li>FOR THE WALL BASE. U.N.O</li> <li>CTION TO BE INSTALLED ABOVE WALL BASE.</li> <li>L ADA COMPLIANT SIGNAGE. AS REQUIRED BY ROOMS AND SERVICE ROOMS.</li> <li>UNTERTOPS IN NEW WALLS TO INCLUDE IN WAT, 36" O.C. RE: DETAILS</li> <li>UAT COMPLY WITH AND MEET THE FLAME SPRITTS FROM SECTION 803 AND TABLE 803.13 OF TODING CODE.</li> <li>LECTED BY ARCHITECT.</li> <li>SOFFIT OR GYP. CEILING. REFER TO REFLECTE ELLING PAINT ACCENTS</li> <li>P BE PT1, U.N.O. PROVIDE MOLD RESISTANT EFSHOWER ROOMS.</li> <li>FINISH EXTENTS AT ACCENT WALL</li> <li>FINISH MATERIAL TAG</li> <li>CORNER GUARD</li> <li>SWP1 TO 54" A.F.F., INT1</li> <li>SWP1 TO 54" A.F.F., BG1 TOP AT 40" A.F.F.</li> <li>SWP1 TO 52" A.F.F., BG1 TOP AT 40" A.F.F.</li> <li>CPT1</li> </ul>
K. PROVIDE FOR ALL L. ALL OPEN STEEL TU M. PROVIDE RATING R INTERNA N. ALL GROU O. FINISH AL CEILING F P. ALL GYP O PAINT IN TIME Symbol	AND INSTALL ADA TOILET F N BELOW COU UBE SUPPORT FINISHES TH REQUIREMENT TIONAL BUILD OUT TO BE SEL LL SIDES OF S PLAN FOR CE CEILINGS TO TOILET AND S	L ADA COMPLIANT SIGNAGE. AS REQUIRED BY ROOMS AND SERVICE ROOMS. UNTERTOPS IN NEW WALLS TO INCLUDE IN WA T, 36" O.C. RE: DETAILS HAT COMPLY WITH AND MEET THE FLAME SPRE ITS FROM SECTION 803 AND TABLE 803.13 OF T DING CODE. LECTED BY ARCHITECT. SOFFIT OR GYP. CEILING. REFER TO REFLECTE EILING PAINT ACCENTS PBE PT1, U.N.O. PROVIDE MOLD RESISTANT EF SHOWER ROOMS. FINISH EXTENTS AT ACCENT WALL FINISH MATERIAL TAG CORNER GUARD SWP1 TO 54" A.F.F., INT1 SWP1 TO 54" A.F.F., BG1 TOP AT 40" A.F.F. SWP1 TO 52" A.F.F., BG1 TOP AT 40" A.F.F. CPT1 LVT1
L. ALL OPEN STEEL TU M. PROVIDE RATING R INTERNA N. ALL GROU O. FINISH AL CEILING F P. ALL GYP O PAINT IN TIME Symbol	N BELOW COU UBE SUPPORT FINISHES TH REQUIREMENT ATIONAL BUILD OUT TO BE SEL LL SIDES OF S PLAN FOR CE CEILINGS TO TOILET AND S I Legend	UNTERTOPS IN NEW WALLS TO INCLUDE IN WA T, 36" O.C. RE: DETAILS HAT COMPLY WITH AND MEET THE FLAME SPRE ITS FROM SECTION 803 AND TABLE 803.13 OF T DING CODE. LECTED BY ARCHITECT. SOFFIT OR GYP. CEILING. REFER TO REFLECTE EILING PAINT ACCENTS DE PT1, U.N.O. PROVIDE MOLD RESISTANT EF SHOWER ROOMS. FINISH EXTENTS AT ACCENT WALL FINISH MATERIAL TAG CORNER GUARD SWP1 TO 54" A.F.F., INT1 SWP1 TO 54" A.F.F, BG1 TOP AT 40" A.F.F SWP1 TO 52" A.F.F, BG1 TOP AT 40" A.F.F CPT1
M. PROVIDE RATING R INTERNATION O. FINISH AL CEILING F P. ALL GYP O PAINT IN TINISH Symbol	E FINISHES TH REQUIREMENT ATIONAL BUILD OUT TO BE SEL LL SIDES OF S PLAN FOR CE CEILINGS TO TOILET AND S I Legend	HAT COMPLY WITH AND MEET THE FLAME SPREITS FROM SECTION 803 AND TABLE 803.13 OF T DING CODE. LECTED BY ARCHITECT. SOFFIT OR GYP. CEILING. REFER TO REFLECTE EILING PAINT ACCENTS PBE PT1, U.N.O. PROVIDE MOLD RESISTANT EF SHOWER ROOMS. FINISH EXTENTS AT ACCENT WALL FINISH MATERIAL TAG CORNER GUARD SWP1 TO 54" A.F.F., INT1 SWP1 TO 54" A.F.F, BG1 TOP AT 40" A.F.F SWP1 TO 52" A.F.F, BG1 TOP AT 40" A.F.F CPT1
N. ALL GROU	UT TO BE SEL LL SIDES OF S PLAN FOR CE CEILINGS TO TOILET AND S	LECTED BY ARCHITECT. SOFFIT OR GYP. CEILING. REFER TO REFLECTE EILING PAINT ACCENTS PBE PT1, U.N.O. PROVIDE MOLD RESISTANT EF SHOWER ROOMS. FINISH EXTENTS AT ACCENT WALL FINISH MATERIAL TAG CORNER GUARD SWP1 TO 54" A.F.F., INT1 SWP1 TO 54" A.F.F, BG1 TOP AT 40" A.F.F. SWP1 TO 52" A.F.F, BG1 TOP AT 40" A.F.F. CPT1 LVT1
O. PINISH AL CEILING F P. ALL GYP ( PAINT IN XX#	LE SIDES OF S PLAN FOR CE CEILINGS TO TOILET AND S Legend	FINISH EXTENTS AT ACCENT WALL FINISH EXTENTS AT ACCENT WALL FINISH MATERIAL TAG CORNER GUARD SWP1 TO 54" A.F.F., INT1 SWP1 TO 54" A.F.F., BG1 TOP AT 40" A.F.F SWP1 TO 52" A.F.F, BG1 TOP AT 40" A.F.F CPT1
		FINISH EXTENTS AT ACCENT WALL FINISH MATERIAL TAG CORNER GUARD SWP1 TO 54" A.F.F., INT1 SWP1 TO 54" A.F.F, BG1 TOP AT 40" A.F.F SWP1 TO 52" A.F.F, BG1 TOP AT 40" A.F.F CPT1
	Legend	FINISH EXTENTS AT ACCENT WALL FINISH MATERIAL TAG CORNER GUARD SWP1 TO 54" A.F.F., INT1 SWP1 TO 54" A.F.F, BG1 TOP AT 40" A.F.F SWP1 TO 52" A.F.F, BG1 TOP AT 40" A.F.F
		FINISH MATERIAL TAG CORNER GUARD SWP1 TO 54" A.F.F., INT1 SWP1 TO 54" A.F.F, BG1 TOP AT 40" A.F.F SWP1 TO 52" A.F.F, BG1 TOP AT 40" A.F.F CPT1
		FINISH MATERIAL TAG CORNER GUARD SWP1 TO 54" A.F.F., INT1 SWP1 TO 54" A.F.F, BG1 TOP AT 40" A.F.F SWP1 TO 52" A.F.F, BG1 TOP AT 40" A.F.F CPT1
		CORNER GUARD SWP1 TO 54" A.F.F., INT1 SWP1 TO 54" A.F.F, BG1 TOP AT 40" A.F.F SWP1 TO 52" A.F.F, BG1 TOP AT 40" A.F.F CPT1 LVT1
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	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SV3 - TYP. 6" WIDE STRIP IN DOOR OPENING
<u></u>	<u> </u>	
		EXISTING TO REMAIN

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A3 LEVEL 1 - FINISH FLOOR PLAN

2

![](_page_16_Figure_2.jpeg)

D3 LEVEL 1 - WALL PROTECTION FLOOR PLAN

![](_page_16_Figure_4.jpeg)

-
F

			PAR	TITION TYPES SCHEDULE			
PARTITION			STRUCTURE			STC	Liro Dotino
TIPE	USE DESCRIPTION		STRUCTURE	CONSTRUCTION DESCRIPTION	TOP OF WALL TO	RATING	Fire Rating
		<varies></varies>		(1) LAYER 5/8" GYPSUM BOARD EACH SIDE			NON-RATED
0							
Af0	FURRING WALL	<varies></varies>	7/8" HAT CHANNEL	(1) LAYER 5/8" GYPSUM BOARD ONE SIDE			NON-RATED
Bf0	FURRING WALL	0'-2 1/4"	1-5/8" STEEL STUD	(1) LAYER 5/8" GYPSUM BOARD ONE SIDE	6" ABOVE CEILING		NON-RATED
Cf0	FURRING WALL	0'-3 1/8"	2-1/2" STEEL STUD	(1) LAYER 5/8" GYPSUM BOARD ONE SIDE	6" ABOVE CEILING		NON-RATED
Db0	SOUND PARTITION	0'-4 7/8"	3-5/8" STEEL STUD	(1) LAYER 5/8" GYPSUM BOARD EACH SIDE			
Dbs0 <varies></varies>	<varies></varies>	0'-4 7/8"	3-5/8" STEEL STUD	(1) LAYER 5/8" GYPSUM BOARD EACH SIDE			<varies></varies>
Dbu0	SOUND PARTITION	0'-5 1/2"	3-5/8" STEEL STUD	(2) LAYERS 5/8" GYPSUM BOARD ONE SIDE, (1) LAYER 5/8" GYPSUM BOARD ONE SIDE 3" SOUND BATT			NON-RATED
Df0	FURRING WALL	0'-4 1/4"	3-5/8" STEEL STUD	(1) LAYER 5/8" GYPSUM BOARD ONE SIDE	6" ABOVE CEILING		NON-RATED
1							
u1	SOUND & FIRE PARTITION	0'-1 1/4"		(2) LAYER 5/8" GYPSUM BOARD ONE SIDE	UNDERSIDE OF STRUCTURE		1HR
Db1B	FIRE BARRIER	0'-4 7/8"	3-5/8" STEEL STUD	(1) LAYER 5/8" TYPE "X" GYPSUM BOARD EACH SIDE	UNDERSIDE OF STRUCTURE		1HR
Dbu1B	FIRE BARRIER	0'-5 1/2"	3-5/8" STEEL STUD	(2) LAYER 5/8" TYPE "X" GYPSUM BOARD ON ONE SIDE	UNDERSIDE OF STRUCTURE		1HR

![](_page_17_Figure_2.jpeg)

С

![](_page_17_Figure_4.jpeg)

2

![](_page_17_Figure_5.jpeg)

3

## **Dbs0 - UNRATED METAL STUD SOUND** PARTITIONS

![](_page_17_Figure_10.jpeg)

![](_page_17_Figure_11.jpeg)

![](_page_17_Figure_13.jpeg)

![](_page_18_Figure_0.jpeg)

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![](_page_19_Figure_1.jpeg)

4

![](_page_19_Figure_2.jpeg)

![](_page_19_Figure_3.jpeg)

![](_page_19_Figure_4.jpeg)

5

![](_page_19_Figure_5.jpeg)

				C	OOR PANE	L		
twtwwtt W	ROOM NAME	WIDTH	HEIGHT	THICKNES	TYPE	MATERIAL	FINISH	GLAZING TYPE
_EVEL 1								
1603	PUBLIC TLT	36"	84"	1 3/4"	WD1	WD		
1605	OFFICE	36"	84"	1 3/4"	WD1	WD		
1607	ED CLEAN UTILITY	42"	84"	1 3/4"	WD1	WD	STN	
1620	HSKG	36"	84"	1 3/4"	WD1	WD	STN	
1635A	SOILED WORK	36"	84"	1 3/4"	WD1	WD		
1635B	SOILED WORK	36"	84"	1 3/4"	WD1	WD		
16260		26"	0.4"	1 2/4"				

4

3

2

LIFE SAFETY

FIRE

CLEAR

OPENING Door STC HARDWAR WALL

Rating E SET WIDTH

DOOR SCHEDULE

DOOR FRAME

GLAZING

## DOOR GENERAL NOTES

- NUMBER INDICATED IN THE "REV" CORRESPONDS TO THE ISSUE/REVISION TAG NUMBER CONTAINED IN THE TITLEBLOCK.
- REFER TO SPECIFICATION SECTION 08 8000 GLAZING FOR GLAZING TYPES.

REMARKS

## DOOR ABBREVIATIONS

BBREVIATION	DESCRIPTION
	ALUMINUM
4	CLEAR ANODIZED
۲1	INPRO DOOR FINISH -SEE FINISH LEGEND
Л	HOLLOW METAL
-	PAINT
-	STAIN
D	WOOD

6

REV.

![](_page_19_Figure_16.jpeg)

![](_page_20_Figure_0.jpeg)

![](_page_20_Figure_11.jpeg)

![](_page_20_Figure_14.jpeg)

![](_page_21_Picture_0.jpeg)

## **GENERAL DRAWING NOTES**

1. WHERE DIFFERENCES APPEAR BETWEEN PLUMBING DRAWINGS AND ARCHITECTURAL DRAWINGS IN THE QUANTITIES AND LOCATIONS OF PLUMBING FIXTURES, THE ARCHITECTURAL DRAWINGS SHALL BE USED FOR PRICING. WHERE NECESSARY, THE CONTRACTOR SHALL USE UNIT PRICING FOR WASTE AND VENT PIPING TO EACH PLUMBING FIXTURE.

4

## GENERAL PLUMBING CONTRACT REQUIREMENTS

- 1. PREPARE SHOP DRAWINGS OF ALL NEW WORK (INCLUDING SLEEVE LOCATIONS) TO VERIFY LOCATIONS AND COORDINATION OF WORK BETWEEN TRADES PRIOR TO INSTALLATION.
- 2. ALL DRAIN GRATES, CLEANOUT COVERS, AND OTHER FINISHED OR EXPOSED COMPONENTS SHALL BE PROTECTED FROM DAMAGE. DAMAGED COMPONENTS SHALL BE REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.
- 3. COORDINATE ROUTING OF ALL PLUMBING PIPING BELOW SLAB WITH STRUCTURAL GRADE BEAMS, TIE BEAMS, ETC. ALLOW FOR REROUTING OF PIPING AS REQUIRED.
- 4. PIPING ROUTING ON DRAWINGS IS GENERALLY DIAGRAMMATIC WITH EFFORTS DURING DESIGN TO AVOID STRUCTURAL CONFLICTS. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING THROUGH BUILDING WITH STRUCTURAL AND EXISTING CONDITIONS. CONTRACTOR COORDINATION DRAWINGS SHALL REFLECT ALL PIPE ROUTING AND PIPING THAT MAY HAVE TO BE SHIFTED OR MOVED TO AVOID CONFLICTS. SHIFTED OR MOVED PIPING SHALL REFLECT NO ADDITIONAL COST TO THE PROJECT.
- 5. ALL REQUIRED OPENINGS IN CONCRETE BEAMS AND STRUCTURAL WALLS ARE TO BE ACCOMPLISHED USING SLEEVES PROPERLY SIZED FOR THE PIPE THEY SERVE. CORE DRILLING IN BEAMS IS NOT ALLOWED. CORE DRILLING IN PANS IS ALLOWED UPON PRIOR APPROVAL OF ARCHITECT AND STRUCTURAL ENGINEER.
- 6. ALL HORIZONTAL SANITARY PIPING 3" AND SMALLER WHETHER BELOW OR ABOVE GRADE SHALL SLOPE AT 1/4"/FT. ALL PIPING 4" AND LARGER SHALL SLOPE AT 1/8"/FT UNLESS OTHERWISE NOTED.
- 7. WHERE SHOWN, MINIMIZE THE NUMBER OF JOINTS ON ANY PRESSURIZED PIPING BELOW CONCRETE SLABS. ALL BELOW GRADE PIPING TO BE PRESSURE TESTED AND WITNESSED BY ARCHITECT PRIOR TO BACKFILLING.
- 8. ALL CLEANOUTS SHALL BE PIPE SIZE OR MAXIMUM 6" FOR LARGER PIPE.
- IN ADDITION TO THE CLEANOUT LOCATIONS SHOWN ON DRAWINGS, CLEANOUTS SHALL BE PROVIDED IN ACCORDANCE WITH THE LOCAL GOVERNING CODE. ADDITIONAL CLEANOUTS SHALL BE PROVIDED AS FOLLOWS:
  - A. EACH RUN OF PIPING WHICH IS MORE THAN 75 FEET IN LENGTH OR FRACTION THEREOF.
    B. HORIZONTAL LINES 5 FEET OR MORE.
  - C. HORIZONTAL LINES FOR EACH AGGREGATE CHANGE OF DIRECTION EXCEEDING 135 DEGREES.
  - AT THE BASE OF ALL SANITARY AND STORM RISERS. ALL VERTICAL CLEANOUTS SHALL BE SIZED TO ACCOMMODATE
  - THE LARGEST PIPE ON THAT BRANCH LINE, BUT NEVER LARGER THAN 4". E. ALL GREASE WASTE PIPING SHALL HAVE CLEANOUTS EVERY
  - 50 FEET OR FRACTION THEREOF AND AS NOTED ABOVE.
     F. AT THE END OF FIXTURE BANKS INCLUDING WATER CLOSETS, URINALS, AND LAVATORIES. CLEANOUT PLUG SHALL BE A MINIMUM OF 24" AFF
- 10. PROVIDE ISOLATION VALVES ON ALL PIPING SERVING HOSE BIBBS.
- 11. WATER HAMMER ARRESTORS SHALL BE INSTALLED BETWEEN THE LAST 2 FLUSH VALVE FIXTURES. WHEN THE COLD WATER HEADER IS 20 FEET OR LONGER, A SECOND ARRESTOR SHALL BE INSTALLED HALFWAY DOWN THE HEADER. THE SIZES OF THE ARRESTORS SHALL BE BASED ON PDI SIZING.
- 12. ALL FLOOR DRAINS IN BUILDING EXCEPT DRAINS IN SHOWERS AND SHOWER AREAS SHALL BE INSTALLED WITH A PRIMER TAP AND A 1/2" COLD WATER LINE ROUTED FROM FLOOR DRAIN PRIMER TAP AND STUBBED UP AT PLUMBING CHASES +12"AFF FOR CONNECTION TO TRAP PRIMER UNIT. COLD WATER PIPING IN OR BELOW FLOOR SLAB SHALL BE WRAPPED WITH POLYWRAP OR APPROVED EQUAL MATERIAL TO PROVIDE PROTECTION TO PIPING. ALL PIPING SHALL BE ONE PIECE FROM PRIMER TAP TO STUBUP. PROSET TRAP GUARDS (OR APPROVED EQUALS) MAY BE UTILIZED IF ACCEPTABLE TO THE AHJ AND OWNER.
- 13. ALL DOMESTIC WATER PIPING SERVING TOILET OR RESTROOM GROUPS SHALL BE INSTALLED WITH ISOLATION VALVES IN ORDER TO ISOLATE THESE AREAS WITHOUT CLOSING DOWN ANY OTHER PORTION OF THE BUILDING WATER SUPPLY SYSTEMS. ALL ISOLATION VALVES SHALL BE ACCESSIBLE WITH ACCESS PANELS. MINIMUM ACCESS PANEL SIZE SHALL BE 12"x12". ACCESS PANELS SHALL BE OF THE SAME RATING AS THE STRUCTURAL ELEMENT IN WHICH THEY ARE INSTALLED.
- 14. THROUGHOUT THE DRAWINGS, NUMBERS ARE SHOWN IN BRACKETS TO INDICATE QUANTITIES OF UNITS CARRIED WITHIN THE DIFFERENT PIPING SYSTEMS. THEY REPRESENT THE FOLLOWING:

CW (X) = (CWFU) GAS (X) = (MBH) SAN (X) = (DFU)

VENT (X) = (DFÚ) ST/OD (X) = (FT<sup>2</sup>)

3

FOR CALCULATION PURPOSES OF ALL PIPE SIZES, VALUES SHOWN ARE WITHIN 10 PERCENT OF ACTUAL LOAD VALUES.

- 15. ALL EQUIPMENT AND PIPING SHALL BE BRACED FOR SEISMIC REQUIREMENTS APPLICABLE FOR SEISMIC ZONE REQUIREMENTS FOR THIS PROJECT.
- 16. PROVIDE DIELECTRIC FITTINGS AT ALL CONNECTIONS BETWEEN DISSIMILAR METALS AND AS SHOWN ON DRAWINGS.
- 17. ALL TEMPERING VALVES TO BE SET FOR 110° F WATER TEMPERATURE MAXIMUM UNLESS OTHERWISE NOTED.
- 18. PROVIDE WATER HAMMER ARRESTORS FOR ALL FIXTURES/EQUIPMENT THAT HAVE QUICK CLOSING VALVES INCLUDING:
  A. WATER CLOSET AND URINAL FLUSH VALVES
  B. ELECTRONIC FAUCETS
  - C. REFRIGERATORS AND ICE MAKERS D. DISHWASHERS
  - E. DI FEED WATER SUPPLYF. DISINFECTORS AND STERILIZERS
- 19. REFER TO MECHANICAL PLANS FOR ALL EQUIPMENT REQUIRING MAKE-UP WATER. PROVIDE A REDUCED PRESSURE BACKFLOW, PRV, AND WATER HAMMER ARRESTOR FOR EACH REQUIRED LINE.

6

		( NOT ALL SYMBOLS LIS					NGS)	
SYMBOL	ABBR	DESCRIPTION	SYMBOL	ABBR	DESCRIPTION	SYMBOL	ABBR	DESCRIPTION
MEDICAL	МА	MEDICAL AIR	FITTINGS:		ELBOW UP	SYMBOLS:		-SECTION NO.
02	02	OXYGEN	C—		ELBOW DOWN	P1-		SECTION VIEW SHEET NO.
MV	MV	MEDICAL VACUUM	-0-		TEE UP	F		DETAIL
—WAGD—	WAGD	WASTE ANESTHESIA GAS DISPOSAL	_ <del></del>		TEE DOWN	M1		DESIGNATION
CO2	CO2	CARBON DIOXIDE			PIPE CAP OR PLUG	F		
	N2O	NITROUS OXIDE	-5-	GC	GAS COCK	F		EQUIPMENT DESIGNATION
N2	N2	NITROGEN		со	CLEANOUT PLUG	1		
CA	CA	COMPRESSED AIR (NONMEDICAL)	<b>[]-#</b>	HB WH	HOSE BIBB WALL HYDRANT			SHEET KEY NOTES
DI	DI	DEIONIZED WATER	- <del>•</del> -	VB	VACUUM BREAKER		POC	CONN. NEW TO EXISTING
SPRINKLER HEADS			Ø	RD	ROOF DRAIN		POD	POINT OF DISCONNECTION
		EXISTING SPRINKLER HEAD TO REMAIN	Ø	OD	OVERFLOW ROOF DRAIN	<b>—</b>		ARROW INDICATES DIRECTION OF FLOW
		EXISTING SPRINKLER HEAD TO RELOCATED		DSN	DOWNSPOUT NOZZLE			RISE IN DIRECTION OF FLOW
		EXISTING SPRINKLER HEAD TO NEW LOCATION	[] 	SA	SHOCK ARRESTOR W/BALL VALVE	<u>DN</u>		DROP IN DIRECTION OF FLOW
() <sub>A</sub>		NEW SPRINKLER HEAD TO MATCH EXISTING	9	FD	FLOOR DRAIN		TB	THRUST BLOCK
PIPING: (E)	(E)	EXISTING PIPING	Ξ	AD	AREA DRAIN		DN AFF	ABOVE FIN. FLOOR
\X		EXISTING PIPING TO BE REMOVED	$\bigcirc$	FCO GCO	FLOOR CLEANOUT GRADE CLEANOUT		AFG TOP	ABOVE FIN. GRADE
	CW	DOMESTIC COLD WATER		WCO CO	WALL CLEANOUT CLEANOUT PLUG		BOP I.E.	BOT. OF PIPE (AFF) INVERT ELEVATION
—HW	HW	DOMESTIC HOT WATER	ᆀᄕ	VTR	VENT THRU ROOF		VBF	VENT BELOW FLOOR
	T	TEMPERED WATER	VALVES:	GV	GATE VALVE	(E)	NTS (E)	NOT TO SCALE EXISTING
HWC—	SAN	WATER CIRCULATING		OS&Y	OUTSIDE STEM AND YOKE	(N) (R)	(N) (R)	NEW REMOVE OR
SAN	SAN	SANITARY WASTE BELOW FLOOR		DV	DRAIN VALVE W/ HOSE END CONN.			RELOCATE
—_GW—	GW	GREASE WASTE BELOW FLOOR	Q		BALL VALVE W/ HOSE CONNECTION			
	V	SANITARY VENT	$\mathbf{N}$	CV	CHECK VALVE WITH FLOW DIRECTION			
ST	ST	ABOVE FLOOR STORM PIPING	Ŵ	PRV	PRESSURE REDUCING VALVE			
OD	OD	STORM OVERFLOW	Xa	sv	SOLENOID VALVE			
OD	OD	STORM OVERFLOW BELOW FLOOR	FC	FCV	AUTO FLOW CONTROL VALVE W/ TEST PORT			
——G—— ——F——	G F	NATURAL GAS FIRE		CS	CIRCUIT SETTER			
DR	DR CA	EQUIP. DRAIN COMPRESSED AIR	->>-	GLV	GLOBE VALVE (STRAIGHT PATTERN)			
		PIPE SIZE/ PIPE TYPE		GLV	GLOBE VALVE (ANGLE PATTERN)			
			]	BFV	BUTTERFLY VALVE			
FITTINGS:			-6-	BV	BALL VALVE			
	EJ	EXPANSION JOINT	Ř	TCV	AUTO TEMP CONTROL VALVE, 2-WAY			
—	U	UNION		тсу	AUTO TEMP CONTROL VALVE, 3-WAY			
П		TUEDMONETED	K}	PV	PLUG VALVE			
		W/THERMOWELL	Ĩ¢−	TPR	TEMP/PRESSURE RELIEF VALVE			
<u> </u>	AV	AIR VENT	$\bigcirc$		VALVE IN RISER			
	FC	FLEXIBLE PIPE CONNECTOR		OTD	STRAINER W/			
	FS	FLOW SWITCH	× Fr	SIK	& CAPPED HOSE- END CONNECTION			
	PS	PRESSURE SWITCH	-&		STEAM TRAP			
<b>0</b> +	PG	PRESSURE GAUGE W/GAUGE COCK						

EQUIPMENT DESIGNATIONS

5

![](_page_21_Figure_39.jpeg)

![](_page_21_Figure_40.jpeg)

					[					
CODE	FIXTURE	DESCRIPTION	LOCATION	MIN CW CONN	MIN HW CONN			MANUFACTURER / MODEL NUMBER	FAUCET / FLUSH VALVE	REMARKS
CS-1	CLINIC SINK	WALL MOUNTED FLUSHING RIM SINK	SOILED WORK 1635	1"	-	4"	2"	ZURN Z5410	ZURN Z60843AV-BWN-BG	WH, WO, FV, VC, 6.5 GPF
WC-1	WATER CLOSET	ADA WALL MOUNTED FLUSH VALVE	PUBLIC TLT 1603	1"	-	4"	2"	RELOCATED EXISTING	RELOCATED EXISTING	RELOCATED EXISTING
L-1	LAVATORY	WALL HUNG ADA	SEE PLANS	1/2"	1/2"	1-1/2"	1-1/2"	RELOCATED EXISTING	RELOCATED EXISTING	RELOCATED EXISTING
S-1	SINK	COUNTER MOUNTED	ED CLEAN UTILITY 1607	1/2"	1/2"	1-1/2"	1-1/2"	RELOCATED EXISTING	RELOCATED EXISTING	RELOCATED EXISTING
MSB-1	MOP SINK	FLOOR MOUNTED	JANITOR CLOSETS	3/4"	3/4"	3"	2"	JUST B-33213	CHICAGO 897-CRCF	WITH HOSE AND MOP BRACKET, SEE NOTE #7
FD-1	FLOOR DRAIN	EMERGENCY DRAIN	SEE PLANS		SIZES	AS NOTED		ZURN ZN415-BZ1-NH-TSP		DCCI BODY, POLISHED NICKEL BRONZE GRATE, ASSE 1072 TRAP GUARD
FS-1	FLOOR SINK	WASTE RECEPTOR	SEE PLANS		SIZES	AS NOTED		ZURN Z1851-NH-2		SS, HALF GRATE, ASSE 1072 TRAP GUARD
ICENC-039	ICE MAKER	COUNTERTOP ICE MAKER	PRE/POST RECOV 1650E	1/2"	-	-	-	RE: EQUIPMENT PACKAGE	RE: EQUIPMENT PACKAGE	RE: EQUIPMENT PACKAGE
SNKTS-002	SCRUB SINK	DUPLEX SURGEON SCRUB SINK	SCRUB C-1600E	1/2"	1/2"	2"	1-1/2"	RE: EQUIPMENT PACKAGE	RE: EQUIPMENT PACKAGE	RE: EQUIPMENT PACKAGE
SNKCR-030	REPROCESSING SINK	TRIPLEX WITH CA, CW, AND DI NOZZLES	SOILED WORK 1635	1/2"	1/2"	2"	1-1/2"	RE: EQUIPMENT PACKAGE	RE: EQUIPMENT PACKAGE	RE: EQUIPMENT PACKAGE
STESE-002	STERILIZER	STEAM STERILIZER	CLEAN WORK 1636B	1"	1/2"	-	-	RE: EQUIPMENT PACKAGE	RE: EQUIPMENT PACKAGE	RE: EQUIPMENT PACKAGE
TINAS-025	ASSEMBLY TABLE	PREP AND PACK TABLE WITH CA NOZZLE	CLEAN WORK 1636B	-	-	-	-	RE: EQUIPMENT PACKAGE	RE: EQUIPMENT PACKAGE	RE: EQUIPMENT PACKAGE
WSREL-017	WASHER	WASHER DISINFECTOR WITH CA AND DI CONNECTIONS	SOILED WORK 1635	1/2"	1/2"	-	-	RE: EQUIPMENT PACKAGE	RE: EQUIPMENT PACKAGE	RE: EQUIPMENT PACKAGE

## GENERAL NOTES

1

1. PLUMBING DESIGN AND SIZES ARE BASED ON THE INTERNATIONAL PLUMBING CODE. 2. ALL EXPOSED PIPING SERVING PLUMBING FIXTURES THAT MAY BE USED FOR ADA PURPOSES SHALL HAVE TRAPS AND SUPPLIES INSULATED PER ADA REQUIREMENTS. 3. ALL FIXTURES ARE WHITE UNLESS OTHERWISE NOTED. 4. FLUSHING MECHANISMS SHALL BE LOCATED TO THE WIDE SIDE OF ADA ACCESS. 5. PROVIDE AN ASSE 1070 APPROVED TEMPERING VALVE AT ALL PUBLIC LAVATORIES USED FOR HAND WASHING SET TO 110°F PER IPC 607.1. 6. ALL SHOWER VALVES SHALL BE ASSE 1016 APPROVED AND SET TO NO GREATER THAN 120°F PER IPC 424.3 7. RPZ BACKFLOW PROTECTION SHALL BE PROVIDED ON EACH WATER LINE SERVING THE MOP SINK UNLESS ALL CONNECTED CHEMICAL DISPENSERS COMPLY WITH ASSE 1055.

DEFINITIONS	
ADA	AMERICANS WITH DISABILITIES ACT APF
CI	CAST IRON
СТ	COUNTER TOP
BO	BOTTOM OUTLET
EB	ELONGATED BOWL
EBF	ELECTRONIC BATTERY OPERATED FAUC
EBFV	ELECTRONIC BATTERY OPERATED FLUS
FM	FLOOR MOUNTED
FP	FREEZE PROOF
FT	FLUSH TANK
FV	FLUSH VALVE
MV	MIXING VALVE
MF	METERING FAUCET
PB	PRESSURE BALANCING
PTB	PRESSURE TEMPERATURE BALANCING
S	SOLID WHITE ELONGATED OPEN FRONT
SC	SOLID WHITE ELONGATED OPEN FRONT
SS	STAINLESS STEEL
VB	VACUUM BREAKER
VC	VITREOUS CHINA
VR	VANDAL RESISTANT
WC	WALL FIXTURE CARRIER
WH	WALL HUNG
wo	WALL OUTLET

2

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3

PROVED

UCET USH VALVE

SEAT LESS COVER WITH CHECK HINGE T SEAT WITH COVER

			ME	EDICAL GAS	SCHEDULE	
CODE	MANUFACTURER	MODEL NUMBER	SERVICE	LOCATION	TYPE	REMARKS
MGM-1	BEACON MEDAES	MNE-HH2X2-CO2-AS	CARBON DIOXIDE	MED GAS ROOM	AUTOMATIC CHANGEOVER MANIFOLD	2x2 HIGH PRESSURE X HIGH PRESSURE CYLINDER
AAF-I	BEACON MEDAES	1013-ATU-OAVWC	MEDICAL GAS AREA	SEE FLANS		WIRE TO ALARIVI SENSORS LOCATED IN 2VB-1
ZVB-1	BEACON MEDAES	ZVB5-AAABC-ENG	OR MEDICAL GAS ISOLATION	SEE PLANS	ZONE VALVE BOX	VALVES SHALL BE IDENTIFIED ON PANEL COVER, PROVIDE WITH GAUGES AND INTEGRAL ALARM SENSORS
ZVB-2	BEACON MEDAES	ZVB1-A-ENG	ENDO MEDICAL GAS ISOLATION	SEE PLANS	ZONE VALVE BOX	VALVES SHALL BE IDENTIFIED ON PANEL COVER, PROVIDE WITH GAUGES AND INTEGRAL ALARM SENSORS. CONNECT NEW ALARM SENSOR TO THE ADJACENT EXISTING AREA ALARM PANEL SERVING ENDO ROOM.
CO2-1	RE: MEDICAL EQUIPMENT PLANS	RE: MEDICAL EQUIPMENT PLANS	CARBON DIOXIDE	OR BOOM LTSMB-008	CHEMETRON / LATCH KEY	COORDINATE EXACT LOCATION AND CONNECTION WITH OR EQUIPMENT LAYOUT
MV-1	RE: MEDICAL EQUIPMENT PLANS	RE: MEDICAL EQUIPMENT PLANS	MEDICAL VACUUM	OR BOOM LTSMB-008	CHEMETRON / LATCH KEY	COORDINATE EXACT LOCATION AND CONNECTION WITH OR EQUIPMENT LAYOUT
MA-2	RE: MEDICAL EQUIPMENT PLANS	RE: MEDICAL EQUIPMENT PLANS	MEDICAL AIR	OR COLUMN CSCRE-008	DISS	COORDINATE EXACT LOCATION AND CONNECTION WITH OR EQUIPMENT LAYOUT
MV-2	RE: MEDICAL EQUIPMENT PLANS	RE: MEDICAL EQUIPMENT PLANS	MEDICAL VACUUM	OR COLUMN CSCRE-008	DISS	COORDINATE EXACT LOCATION AND CONNECTION WITH OR EQUIPMENT LAYOUT
O2-2	RE: MEDICAL EQUIPMENT PLANS	RE: MEDICAL EQUIPMENT PLANS	OXYGEN	OR COLUMN CSCRE-008	DISS	COORDINATE EXACT LOCATION AND CONNECTION WITH OR EQUIPMENT LAYOUT
WAGD-2	RE: MEDICAL EQUIPMENT PLANS	RE: MEDICAL EQUIPMENT PLANS	WASTE ANESTHESIA GAS DISPOSAL	OR COLUMN CSCRE-008	DISS	COORDINATE EXACT LOCATION AND CONNECTION WITH OR EQUIPMENT LAYOUT
CO2-3	RE: MEDICAL EQUIPMENT PLANS	RE: MEDICAL EQUIPMENT PLANS	CARBON DIOXIDE	ENDO BOOM	CHEMETRON / LATCH KEY	COORDINATE EXACT LOCATION AND CONNECTION WITH ENDO EQUIPMENT LAYOUT

GENERAL NOTES
1. ALL COMPONENTS AND COMPLETE INSTALLATION SHALL MEET THE REQUIREMENTS OF NFPA 99. 2. CONNECT NEW SOURCE EQUIPMENT TO BOTH EXISTING MASTER ALARM PANELS, LOCATED IN THE 24/7 NURSES' STATION AND FACILITY DIRECTOR OFFICE.

	PURE WATER SCHEDULE																
ODE	MANUFACTURER	MODEL NUMBER	SERVICE	LOCATION	TYPE	FLOW [GPM]	PRESSURE [PSI]	STORAGE [GAL]	REMARKS	POWER [W]	VOLTAGE	PHASE	FLA	ELECTRIC. FUSE	AL DISCONNECT	NEMA	FEEDER
W-1	CULLIGAN	10" CULLAR	DI WATER	DI CLOSET 1637	CARBON FILTER	-	-	-		185	120	1	2	N/A	\$T.O.	5-20	(2#12,1#12G) 3/4"C
W-2	CULLIGAN	E1-3S	DI WATER	DI CLOSET 1637	REVERSE OSMOSIS	0.52	50	-	A	250	120	1	7.2	N/A	\$T.O.	5-20	(2#12,1#12G) 3/4"C
W-3	NORWESCO	41856	DI WATER	DI CLOSET 1637	STORAGE TANK	-	-	200		-	-	-	-	-	-	-	-
W-4	GRUNDFOS	SCALA2 3-45 A	DI WATER	DI CLOSET 1637	FORWARDING PUMP	8	15	-		550	208	1	2.8	5A FRN-R	30A/2P	HARDWIRED	(3#12,1#12G) 3/4"C
W-5	CULLIGAN	PEDI 14" x 65"	DI WATER	DI CLOSET 1637	EXCHANGE DI TANKS	8	-	-	В	-	-	-	-	-	-	-	-
W-6	CULLIGAN	CUV6-151A	DI WATER	DI CLOSET 1637	UV LAMP	8	-	-		62	120	1	1	N/A	\$T.O.	5-20	(2#12,1#12G) 3/4"C
W-7	GLOBAL FILTER	GFHD121N2630MC	DI WATER	DI CLOSET 1637	0.2 MICRON FILTER	8	-	-	С	-	-	-	-	-	-	-	-

4

5

GENERAL NOTES

1. PROVIDE COMPLETE SYSTEM AT START UP, INCLUDING INITIAL INSTALLATION OF CARTRIDGE FILTERS, SERVICE DEIONIZATION TANKS, AND PIPING AS REQUIRED. 2. PROVIDE (1) COMPLETE SPARE SET OF CONSUMABLES, INCLUDING CARTRIDGE FILTERS AND UV LIGHT.

3

REMARKS A. PROVIDE WITH OPTIONAL FLOOR STAND

B. PORTABLE EXCHANGE DI TANKS BY VENDOR. C. PROVIDE WITH 0.2 MICRON GLOBAL FILTER 0.2A20"C4B.

![](_page_22_Figure_25.jpeg)

6

![](_page_23_Figure_0.jpeg)

![](_page_24_Figure_0.jpeg)

![](_page_25_Figure_0.jpeg)

![](_page_26_Figure_0.jpeg)

![](_page_27_Figure_0.jpeg)

![](_page_28_Figure_0.jpeg)

![](_page_29_Figure_0.jpeg)

![](_page_29_Figure_6.jpeg)

![](_page_30_Figure_0.jpeg)

![](_page_30_Figure_3.jpeg)

![](_page_31_Picture_0.jpeg)

![](_page_31_Figure_4.jpeg)

![](_page_32_Figure_0.jpeg)

![](_page_32_Figure_4.jpeg)

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F			
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			lı F S V
D			
С			
В			
Δ			
			(1
:36:35 PM			
11/30/2022 5:			

![](_page_33_Figure_1.jpeg)

3

![](_page_33_Figure_2.jpeg)

![](_page_33_Figure_3.jpeg)

4

\_\_\_\_

SLEEVE.

PIPE

-PIPE RISER

-PIPE CLAMP

-WATER STOP CURB WHERE DIRECTED

-PACK VOID TIGHTLY

W/APPROVED FIRE

SEALANT AND SEAL

ENDS WITH MASTIC,

SEE SPEC.

MAY EXTENT AS A-

WASTE OR VENT

PIPE THRU FLOOR SLAB DETAIL Not To Scale

![](_page_33_Figure_5.jpeg)

4

![](_page_33_Figure_6.jpeg)

3

2

![](_page_33_Figure_7.jpeg)

6

![](_page_33_Figure_8.jpeg)

3 PIPE MOUNTING SEISMIC CABLE BRACE DETAIL Not To Scale

![](_page_33_Figure_10.jpeg)

## 4 UNINSULATED PIPE THRU ROOF DETAIL Not To Scale

6

![](_page_33_Picture_14.jpeg)

![](_page_34_Figure_0.jpeg)

2

1

![](_page_34_Figure_5.jpeg)

3 WATER HAMMER ARRESTOR INSTALLATION AND SIZING DETAIL

5

QUICK CLOSING VALVE  $- \int$ 

6

SA-1

SA-2

SA-3

SA-4

SA-5

SA-6

4

1"

![](_page_34_Figure_7.jpeg)

![](_page_35_Picture_0.jpeg)

4

3

3

![](_page_35_Figure_4.jpeg)

### —120V EMERGENCY POWER (DEDICATED CIRCUIT) **BY DIVISION 16** 0 0 0 0 STATUS STATUS STATUS SILENCE 0 0 0 1 9 17 0 0 0 TEST 2 10 18 \_\_\_\_\_ 0 0 0 19 3 11 0 \_\_\_\_\_ 0 0 12 20 4 0 0 0 13 21 5 \_\_\_\_\_ 0 Ο 0 22 14 6 0 0 0 23 7 15 0 0 0 8 16 24 REPORT ALL ALARMS TO MAINTENANCE

1 MEDICAL AIR -LINE PRESSURE HIGH

### 9 OXYGEN -LINE PRESSURE HIGH

- 2 MEDICAL AIR -LINE PRESSURE LOW
- 3 MEDICAL AIR -RESERVE SUPPLY IN USE
- 4 MEDICAL AIR -RESERVE SUPPLY LOW
- 5 SPARE
- 6 SPARE
- 7 SPARE
- 8 SPARE

- 10 OXYGEN -LINE PRESSURE LOW
- 11 OXYGEN
- -RESERVE SUPPLY IN USE
- -RESERVE SUPPLY LOW
- 5 SPARE
- 6 SPARE 7 SPARE
- 8 SPARE

- 17 MEDICAL VACUUM -LINE VACUUM HIGH 18 MEDICAL VACUUM
- -LINE VACUUM LOW 19 SPARE 20 SPARE 21 SPARE 22 SPARE 23 SPARE

24 SPARE

2 MED GAS AND VACUUM MASTER ALARM PANEL Not To Scale

![](_page_35_Figure_25.jpeg)

## 3 CO2 CYLINDER MANIFOLD W/ RESERVE SUPPLY TANKS Not To Scale

![](_page_35_Figure_29.jpeg)

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PI	PING TYPES	6			NG SYMBOLS	AB	BREVIATIONS:						
	DOUBLE LINE PIPING (2" AND ABOVE)	SINGLE LINE PIPING (UP TO 2")	PIPE TYPE	SYMBOL A	ABBREVIATION DESCRIPTION	ABBREV	A	ABBREVI	ATION DESCRIPTION	ABBREVI	IATION DESCRIPTION	ABBRE	EVIATION DESCRIPTI
				FITTINGS:		— A	AIR (COMPRESSED)				М		
				ĻJ	P&T PRESSURE/TEMPERATUR	ABV A/C	ABOVE AIR CONDITIONING	EF	ENERGY EFFICIENCY RATIO EXHAUST FAN EFFICIENCY	MA MAT	MAKE-UP AIR MIXED AIR TEMPERATURE	SH SHT	SHOWER SHEET
	CHS	CHS	CHILLED WATER		E PORT TAPS		ALTERNATING CURRENT AIR COMPRESSOR	EJ	EXPANSION JOINT ELEVATION	MAX MBH	MAXIMUM THOUSAND BTUH	ISIM ISK	SIMILAR SINK
					CR CONCENTRIC REDUCER	ACCH	AIR COOLED CHILLER AIR COOLED CONDENSING UNIT	EMRG ENCL	EMERGENCY ENCLOSURE	MCA		SP	STATIC PRESSURE
$\vdash$	CHR →	· CHR —	CHILLED WATER RETURN			ACFM AD	ACTUAL CUBIC FEET PER MINUTE ACCESS DOOR	ENGR ENT	ENGINEER ENTERING	MECH	MOTOR CONTROL CENTER MECHANICAL MANUEACTURER	SPEC	SOMP FOMP SPECIFICATION
	HWS					ADJ		ES	END SUCTION EMERGENCY SHOWER	MH MI	MANHOLE MALLEABLE IRON	SQ	SQUARE STAINLESS STEEL
]		1000	WATER SUPPLY		EJ EXPANSION JOINT	AFC	ABOVE FINISHED CEILING ABOVE FINISHED FLOOR	ESP ET	EXTERNAL STATIC PRESSURE EXPANSION TANK	MIN MOCP	MINIMUM MAXIMUM OVER CURRENT	SSD	SERVICE SINK SUBSURFACE DRA
		HWR	HEATING WATER		U UNION	AFG AHRI	ABOVE FINISHED GRADE AIR-CONDITIONING, HEATING, AND		EXISTING TO REMAIN EVAPORATOR	MP	PROTECTION MEDIUM PRESSURE	SSFU	SANITARY SEWER UNITS
			RETURN			AHU	REFRIGERATION INSTITUTE AIR HANDLING UNIT	EWT	ENTERING WET BULB ENTERING WATER	MS MTD	MOP SINK MOUNTED	SSSC CO	SOLID STATE SPEE
	CWS	CWS	CONDENSER WATER SLIPPLY	Щ	T THERMOMETER W/ THERMOWELL	AL AMB	ALUMINUM AMBIENT	EX	EXPLOSION PROOF		METAL MAKE-UP	STD STL	STANDARD STEEL
			WITERCOTTET		AV AIR VENT		ACCESS PANEL AIR PRESSURE DROP	EXTG	EXISTING	MVD	MAKE-UP AIR UNIT MANUAL VOLUME DAMPER	SURF	STRAINER SURFACE
$\left  \right\rangle$	CWR	— — — CWR— — —	CONDENSER WATER RETURN				AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-		F	┨────	N	SUSP SV ST	SOSPEND SANITARY VENT
	D <	D	CONDENSATE		CONNECTOR	ARCH AS	ARCHITECT AIR SEPARATOR	F		(N)	NEW NORMALLY CLOSED		
			DRAIN	 	FS FLOW SWITCH	ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-	FCO	FLOOR CLEAN OUT	NFPA	NATIONAL FIRE PROTECTION		
~	HPS	HPS	HIGH PRESSURE	PS	PS PRESSURE SWITCH	ASME	CONDITIONING ENGINEERS AMERICAN SOCIETY OF	FCU	FAN COIL UNIT FLOOR DRAIN	NIC	NOT IN CONTRACT		Т
			STEAM SUPPLY			ASTM	MECHANICAL ENGINEERS AMERICAN SOCIETY OF TESTING	FDS	FIRE DAMPER FIRE DEPARTMENT SIAMESE	NO	NUMBER NOT TO SCALE	TC TD	
	MPS		MEDIUM PRESSURE STEAM		PG GAUGE COCK	AV	AND MATERIALS ACID VENT	FDV FG	FIRE DEPARTMENT VALVE FIBERGLASS		0	TDH TF	TOTAL DYNAMIC H
5			SUPPLY	<u> </u>	ELBOW UP	AVG	AIR VENT AVERAGE ACID WASTE	FF FH	FINAL FILTER FIRE HYDRANT	OA		TG TH BLK	TRANSFER GRILLE THRUST BLOCK
<b>}</b>		LP3	STEAM SUPPLY	(		AWS	AMERICAN WELDING SOCIETY	FHC	FIRE HOSE CABINE I FIRE HOSE RACK		OUTSIDE AIR FAN OUTSIDE AIR HANDLING UNIT	TOD TOP	TOP OF DUCT (AFF TOP OF PIPE (AFF)
	- $        +$		HIGH PRESSURE					- FLA	FIXTURE FULL LOAD AMPS FLEXIBLE		ON CENTER	TP TPD	TRAP PRIMER TRAP PRIMER DE
			CONDENSATE RETURN		TEE UP	B	BOILER	- FLR FP	FLOOR FAN POWERED MIXING BOX	OFCU	OVERFLOW DRAIN OUTSIDE AIR FAN COIL UNIT		THERMOSTAT
	MPR	/ MPR/_	MEDIUM PRESSURE	$\overline{}$	TEE DOWN	BC BFV	BELOW COUNTER BUTTERFLY VALVE	IFPI	FIRE PUMP FINS PER INCH	OPG OS&Y	OPENING OPEN STEM AND YOLK		
- I	·		CONDENSATE RETORN	]	PIPE CAP OR PLUG	BHP BLDG	BRAKE HORSEPOWER BUILDING	FPM FRIC	FEET PER MINUTE FRICTION			U	URINAL
$\geq$	LPR    <	· LPR —	LOW PRESSURE CONDENSATE RETURN			BOD	BENCHMARK BOTTOM OF DUCT (AFF)	FRZR FS	FREEZER FLOW SWITCH	P	PUMP	U/F U/S	UNDERFLOOR UNDERSLAB
		RS	REERIGERANT		IV ISOLATION VALVE, RE: SPECS	BOF	BOTTOM OF FOOTING BOTTOM OF STRUCTURE	FSK	FIRE SPRINKLER FLOOR SINK	PC	PLUMBING EQUIPMENT PLUMBING CONTRACTOR	UCD UG	UNDERCUT DOOR UNDERGROUND
			SUCTION			BTU	BREAK TANK BRITISH THERMAL LINIT		FOUT FEET FEET WATER COLUMN	PCR	PUMPED CONDENSATE RETURN	UL	
	RL	RL	REFRIGERANT		YOKE	BV BWV	BALL VALVE BACK WATER VALVE	FUT	FUTURE		PRESSURE DROP PLANTER DRAIN	UNO	UNLESS NOTED O
			LIQUID		DV DRAIN VALVE W/ HOSE		С		G	PH	PRE-FILTER PHASE POST HYDRANT		V
	RHG	RHG	REFRIGERANT HOT GAS			C CAB	CELSIUS CABINET	G	GAS	PIV PLBG	POST INDICATOR VALVE PLUMBING		VOLT, VENT
5		- Λ			BALL VALVE W/ HOSE CONNECTION	CAV CB	CONSTANT AIR VOLUME CATCH BASIN	GAL	GALLON GALVANIZED	PNEU PNL	PNEUMATIC PANEL	VAC	VACUUM VARIABLE AIR VOL
]	~ ]	~	(PNEUMATIC)			CC CD	COOLING COIL CONDENSATE DRAIN LINE	GC GLV	GENERAL CONTRACTOR GLOBE VALVE	PNTH PP	PENTHOUSE POLYPROPYLENE	VB	VALVE BOX VACUUM BREAKEF
	BD	BD	BOILER BLOW		CV INDICATION OF FLOW	CFH CFM	CUBIC FEET PER HOUR CUBIC FEET PER MINUTE	GND GPD	GROUND GALLONS PER DAY	PPM PRESS	PARTS PER MILLION PRESSURE	VCP VD	VITRIFIED CLAY PIE VOLUME DAMPER
			DOWN				CUBIC FEET PER SECOND CAST IRON CIRCULATING	GPM GV	GALLONS PER MINUTE GATE VALVE	PRI PRS	PRIMARY PRIMARY REDUCING STATION	VEL VERT	VELOCITY VERTICAL
	BF	BF	BOILER FEED		PRV PRESSURE REDUCING	CL CLG	CENTERLINE CEILING		<u> </u>	- PSF PSI	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH	VIB	
		20				CLR CMP	CLEAR CORRIGATED METAL PIPE	НВ	HOSE BIBB	PSIG	POUNDS PER SQUARE INCH, GAUGE	VP VR	VACUUM PUMP VARIABLE AIR VOL
1	BO	BO	BLOW OFF		SV SOLENOID VALVE	CMU CPVC	CONCRETE MASONRY UNIT CHLORINATED POLYVINYL	HC HD	HEATING COIL HEAD	PT PV	PLUMBING TRIM PLUG VALVE	VSD	REHEAT VARIABLE SPEED I
	CF <	CF	CHEMICAL	F ΓC1	FCV AUTO FLOW CONTROL	co	CHLORIDE CLEANOUT	HF	HUB DRAIN HUMIDIFIER HOBIZONTAL	PVC PWL	POLYVINYL CHLORIDE SOUND POWER LEVEL	VTR	VENT THROUGH R
			FEEDER					HP	HORSEPOWER HEAT PUMP UNIT		0	-	VV WATT WASTE WI
	PCS/R <	PCS/R	PROCESS COOLING WATER SUPPLY/RETURN		BALANCING VALVE	CONC	CONCRETE	HKP	HOUSEKEEPING PAD HORIZONTAL SPLIT CASE	QTY	QUANTITY		WITH WITHOUT
 					GLV GLOBE VALVE	COND	CONDENSER CONDENSATE	HSTAT HT	HUMIDISTAT HEIGHT		D	WB WC	WETBULB WATER CLOSET
	HTWS/R	HTWS/R	HIGH TEMP. HOT WATER SUPPLY/RETURN			CONN CONT	CONNECTION CONTINUOUS	HTG HTR	HEATING HEATER	(R)	REMOVE	WCO WF	WALL CLEANOUT WATER FILTER
<u> </u>		PHW/S/R		4	PATTERN)	CONTR	CONTINUATION CONTROLLER	HU HW	HUMIDIFIER SECTION HOT WATER	RA	RELOCATE RETURN AIR	WH WM	WALL HYDRANT WATER METER
]		FTWOK	HEATING WATER		BFV BUTTERFLY VALVE	COP	CONTRACTOR COEFFICIENT OF PERFORMANCE		HOT WATER CIRCULATOR HOT WATER PUMP	RAD RAF	REFRIGERATED AIR DRYER RETURN AIR FAN	WMS WP	WELDED WIRE ME WEATHERPROOF
	PCHS/R <	PCHS/R	PRIMARY OR DISTRICT			CRAC CRU	COMPUTER ROOM A/C UNIT	HWS	HOT WATER RETORN HOT WATER SUPPLY HEAT EXCHANGER	RAG RAT	RETURN AIR GRILLE RETURN AIR TEMPERATURE	WWF	WATER PRESSOR WELDED WIRE FA
			CHILLED WATER SUPPLY/RETURN			CTR	CENTER	HZ	HERTZ		REINFORCED CONCRETE PIPE		WEIGHT
	PR <	PR	PUMPED CONDENSATE		TCV TEMPERATURE CONTROL	CW	COLD WATER CONDENSER WATER PUMP			RE	REFERENCE REFER		Y
					AUTOMATIC	CWR CWS	CONDENSER WATER RETURN CONDENSER WATER SUPPLY			RECIRC RED	RECIRCULATE REDUCER	Y	YARD HYDRANT
1	(E)	(E)	EXISTING PIPING		TCV TEMPERATURE CONTROL VALVE, 3-WAY	CV			INVERT ELEVATION INFRARED HEATER	REFR	REFRIGERATOR REGISTER		Z
	(E)	(E)	EXISTING PIPING TO		BV BALANCING VALVE	dB			INCH INCH, WATER COLUMN		REINFORCING REQUIRED	∥ <sup>z</sup>	ZONE
			BE REMOVED	$\gamma$		DB DC	DRY-BULB DIRECT CURRENT	INSUL INT	INSULATION INTERNAL		REVISION REVISE RETURN FAN		
-					TMP	DDC DESIG	DIRECT DIGITAL CONTROL DESIGNATION	IVV	INTERIOR INDIRECT WASTE	RH RHG	RELATIVE HUMIDITY REFRIGERANT HOT GAS		
	PPLICABLE	CODES		$\bigcirc$		DEFL DTL	DEFLECTION DETAIL	┣───	1	RL RLA	REFRIGERANT LIQUID RUNNING LOAD AMPS		
DESI	IGNED UNDER THE FOLLOWING	G CODES AND STANDARDS:					DRINKING FOUNTAIN DIAMETER DIFFUSED	.IR			ROOM REFRIGERANT MACHINE		
[2021 [2021 [2019	1 INTERNATIONAL BUILDING CO 1 INTERNATIONAL MECHANICAL 3 INTERNATIONAL PLUMBING CO	_ CODE] ODE1			STR CAPPED HOSE END		DIFEOSER DIMENSION DISCONNECT	JP	JOCKEY PUMP	RPM RS	REVOLUTIONS PER MINUTE REFRIGERANT SUCTION		
[2018	B INTERNATIONAL FUEL GAS CO 1 INTERNATIONAL FIRE CODE1	DDE]				DN DP	DOWN DISCHARGE PLENUM		K	RV	RELIEF VALVE		
[2021 [2021	1 INTERNATIONAL ENERGY CON 1 NFPA 101]	NSERVATION CODE]			ST STEAM TRAP	DPR DS	DAMPER DOUNSPOUT	KEC	KITCHEN EQUIPMENT CONTRACTOR			4	
[2020	) NATIONAL ELECTRIC CODE]					DW	DOUBLE SUCTION DISHWASHER	KO KVA	KNOCKOUT KILOVOLT AMPS		S	4	
						DWG DWH	DRAWING DOMESTIC WATER HEATER	KVV	KILOWAT I	SAF	SUPPLY AIR SUPPLY AIR FAN		
<b> </b>				┫ │		DWP DX	DOMESTIC WATER PUMP DIRECT EXPANSION			SAG SAN	SUPPLY AIK GRILLE SANITARY SEWER		
							E			SCHED	SUFFLI AIR REGISTER SCHEDULE STANDARD AIR CURIC EEET		
						(E) EA	EXISTING EACH	LBS LBS/HR	POUNDS POUNDS PER HOUR	SCR	PER MINUTE SILICON CONTROLLED		
						EAT EC	ENTERING AIR TEMPERATURE ELECTRICAL CONTRACTOR	LF	LINEAR FEET LOW PRESSURE	SD	RECTIFIER STORM DRAIN		
						ECC	ELECTRONICALLY COMMUTATED	LRA LVG	LOCKED ROTOR AMPS LEAVING	SE SEC	SEWAGE EJECTOR SECONDARY		
1								LVL LWB	LEVEL LEAVING WET BULB	SECT SENS	SECTION SENSIBLE		
						EDF	ELECTRIC DRINKING FOUNTAIN	LWCO LWT	LOW WATER CUT OFF LEAVING WATER	SF	SQUARE FEET		
1									IEMPERATURE			11	

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![](_page_36_Figure_7.jpeg)

![](_page_37_Picture_0.jpeg)

GENERAL MECHANICAL CONTRACT REQUIREMENTS: <u>GENERAL:</u>

- UNLESS OTHERWISE NOTED, THE WORK DESCRIBED ON THE PLANS AND SPECIFICATIONS SHALL INCLUDE THE FURNISHING AND INSTALLATION OF ALL LABOR AND MATERIALS NECESSARY FOR COMPLETE AND OPERATIONAL HVAC, FIRE PROTECTION AND PLUMBING SYSTEMS. CONTRACTOR SHALL FURNISH THESE EVEN IF ITEMS REQUIRED TO ACHIEVE THIS (I.E. OFFSETS, ISOLATION AND BALANCING DEVICES, MAINTENANCE CLEARANCES, ETC.) ARE NOT SPECIFICALLY SHOWN.
- DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. ABSOLUTE ACCURACY IS NOT GUARANTEED AND THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS WITH OTHER TRADES, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO THE ACTUAL CONDITIONS OF THE JOB.
- THE DRAWINGS ARE DIAGRAMMATICAL IN NATURE AND SHALL NOT BE SCALED. THEY SHOW CERTAIN PHYSICAL RELATIONSHIPS WHICH MUST BE ESTABLISHED WITHIN THE DIVISION 21,22 AND 23 WORK AND ITS INTERFACE WITH OTHER WORK. ESTABLISHING THIS RELATIONSHIP IN THE FIELD IS THE EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR. THIS DIVISION SHALL COORDINATE ITS WORK WITH ALL DIVISIONS OF THE WORK AND ADJUST ITS WORK AS REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT.
- THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING A BID TO BECOME THOROUGHLY FAMILIAR WITH THE ACTUAL CONDITIONS OF THE PROJECT. NO EXTRAS WILL BE ALLOWED DUE TO LACK OF KNOWLEDGE OF EXISTING CONDITIONS.
- CERTAIN SYSTEMS REQUIRE ENGINEERING OF INSTALLATION Β. DETAILS BY CONTRACTOR. UNLESS FULLY DETAILED IN THE CONTRACT DOCUMENTS, SUCH ENGINEERING IS THE EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR. C.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WHERE CLEARANCES ARE LIMITED, AND WHERE INSTALLATION DRAWINGS OR SCHEMATICS, "CONSTRUCTION DRAWINGS", OR COORDINATION DRAWINGS MAY BE REQUIRED IN EXCESS OF THOSE REQUIRED BY THE SPECIFICATIONS. THE CONTRACTOR SHALL PREPARE ALL SUCH COORDINATION DRAWINGS AS PART OF THE BASE CONTRACT. SUCH DRAWINGS MAY BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR RECORD AND COMMENT. ANY WORK INSTALLED WITHOUT APPROVED COORDINATION DRAWINGS IS
- DONE AT THE CONTRACTOR'S RISK.

## EXISTING BUILDING:

- EXISTING CONDITIONS REPRESENTED ON MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS HAVE BEEN DEVELOPED USING VARIOUS EXISTING DESIGN DRAWINGS AND SITE OBSERVATIONS. EXISTING DESIGN DRAWINGS MAY OR MAY NOT REFLECT THE ACTUAL INSTALLED CONDITION FOR SYSTEMS INDICATED. SITE OBSERVATIONS MAY BE INCOMPLETE AS CONCEALED CONDITIONS CANNOT BE VISUALLY VERIFIED. WHILE SITE INVESTIGATION HAS BEEN CONDUCTED, THE ENGINEER CANNOT ASSURE THE OWNER OR THE CONTRACTOR THAT THE EXISTING DESIGN DRAWINGS AND INFORMATION GATHERED DURING SITE INVESTIGATION COMPLETELY AND ACCURATELY REFLECT EXISTING CONDITIONS. FOR THIS REASON, THE SCOPE INCLUDED IN THIS DRAWING PACKAGE CANNOT BE ASSURED TO INCLUDE ALL CONTINGENCIES. FIELD COORDINATION DURING CONSTRUCTION IS REQUIRED TO FULLY UNDERSTAND AND EXECUTE THE PROJECT SCOPE OF WORK. REASONABLE CONTINGENCIES SHALL BE INCLUDED FOR UNFORESEEN SCOPE ITEMS.
- THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE EXISTING BUILDING WILL BE OCCUPIED BY THE OWNER DURING CONSTRUCTION. CONTINUED OPERATION OF THE FACILITY SHALL NOT BE HINDERED BY THIS WORK. THE CONTRACTOR SHALL ACCOUNT FOR ALL ADDITIONAL COSTS WHICH MAY BE INCURRED BY THE CONTRACTOR DUE TO THE DIFFICULTY OF WORKING OVER AND AROUND EMPLOYEES, DESKS, EQUIPMENT. ETC.: AND DUE TO THE HOURS OF THE DAY IN WHICH AN AREA MAY BE AVAILABLE. CONTRACTOR'S BID SHALL TAKE THESE FACTORS INTO ACCOUNT.
- MAINTAIN A MARK-UP SET OF DRAWINGS WHICH INDICATE VARIATIONS IN THE ACTUAL INSTALLATION FROM THE ORIGINAL DESIGN. SURRENDER DRAWINGS TO OWNER UPON COMPLETION.
- COORDINATE ALL PENETRATIONS OF FLOOR SLABS, CONCRETE WALLS, AND OTHER STRUCTURAL ELEMENTS WITH ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO COMMENCING WORK. UTILIZE X-RAY AND VISUAL INVESTIGATION OF EXISTING CONDITIONS AS REQUIRED TO DETERMINE PENETRATION LOCATIONS. SUBMIT PENETRATION SHOP DRAWINGS TO ARCHITECT AND ENGINEER FOR REVIEW PRIOR TO DRILLING OR CUTTING. COORDINATE ALL NEW PENETRATIONS WITH OTHER DIVISIONS OF THE WORK. ALL CONTRACTORS ARE INDIVIDUALLY RESPONSIBLE FOR ALL PENETRATIONS REQUIRED BY THEIR DIVISIONS.

## ELECTRICAL/FIRE ALARM COORDINATION:

- VERIFY THE ELECTRICAL SERVICE PROVIDED BY THE ELECTRICAL CONTRACTOR BEFORE ORDERING ANY MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS.
- SMOKE DETECTORS: FOR INDIVIDUAL FAN SYSTEMS AND COMBINED RETURN AIR SYSTEMS WITH A RETURN AIR CAPACITY EXCEEDING 2000 CFM, PROVIDE UL LISTED SMOKE DETECTORS IN RETURN AIR SYSTEMS IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE AND ELSEWHERE AS SHOWN ON THE DRAWINGS. CONNECT RELAY(S) TO FAN CONTROL CIRCUIT TO STOP FAN WHEN SMOKE IS DETECTED, UNLESS NOTED OTHERWISE.

## GENERAL INSTALLATION:

- MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE SUPPORT FOR ALL DIVISION 23 WORK. SUSPEND EACH TRADE'S WORK SEPARATELY FROM THE STRUCTURE. DO NOT SHARE HANGERS BETWEEN PIPING, DUCTWORK, CONDUIT, AND EQUIPMENT. DUCTWORK, PIPING, AND CONDUIT SHALL BE HELD TIGHT TO STRUCTURE EXCEPT WHERE OTHERWISE SHOWN.
- EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE INDICATED OR LOCAL CODE TAKES PRECEDENCE, COMPLY WITH THE PRODUCT MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS.
- PROVIDE MANUFACTURER'S RECOMMENDED SERVICE CLEARANCE AROUND ALL EQUIPMENT REQUIRING SAME. PROVIDE A MEANS OF ACCESS (ACCESS PANELS, ACCESS DOORS, REMOVABLE CEILING TILES, ETC.) WHERE REQUIRED FOR ADEQUATE MAINTENANCE AND EQUIPMENT/COMPONENT REPLACEMENT.
- ALL CURBS, ROOF JACKS, ROOF THIMBLES, SANITARY VENTS, ROOF DRAINS, ETC. SHALL BE COMPATIBLE WITH ROOFING SYSTEM TO BE PROVIDED. REFERENCE ARCHITECTURAL DIVISION FOR REQUIRED FLASHING DETAILS.
- MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CONCRETE EQUIPMENT PAD DIMENSIONS, BASED ON THE FINAL EQUIPMENT SELECTION, TO THE STRUCTURAL ENGINEER AND GENERAL CONTRACTOR FOR INCLUSION IN THE STRUCTURAL AND/OR SUPPORT SCOPE OF WORK AS DIRECTED BY GENERAL CONTRACTOR.

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DUCT DIMENSIONS INDICATED ON DRAWINGS ARE INSIDE CLEAR.

FLEXIBLE DUCT SIZE SHALL BE SAME AS DIFFUSER NECK SIZE.

WITH TURNING VANES. TRANSFER DUCTS ARE EXCLUDED.

THE CEILING AS A RETURN AIR PLENUM. CONTRACTOR SHALL

CONFORM TO THE REQUIREMENTS OF NFPA AND LOCAL CODE

ALL MITERED ELBOWS AND 1.0 RADIUS ELBOWS SHALL BE PROVIDED

ALL FLEXIBLE DUCTS SHALL NOT BE LESS THAN 4', OR MORE THAN 8' IN

RETURN AIR PLENUM: THE HVAC SYSTEM WILL USE THE SPACE ABOVE

REQUIREMENTS FOR ALL MATERIAL INSTALLED IN THE RETURN AIR

LENGTH. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

CONSTRUCT DUCTWORK TO ALLOW FOR INSIDE CLEAR DIMENSIONS AS

**DUCTWORK INSTALLATION:** 

INDICATED ON DRAWINGS.

1.

3.

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- 1. LOCATE, SELECT, DESIGN AND INSTALL SEISMIC RESTRAINTS FOR ALL MECHANICAL SYSTEMS. INCLUDE RESTRAINTS FOR DUCTWORK, PIPING AND EQUIPMENT.
- COMPLY WITH THE REQUIREMENTS OF LOCAL BUILDING CODE AND ASCE 7-10, CHAPTER 13.
- 3. REFER TO STRUCTURAL PLANS FOR SEISMIC LOAD DESIGN CRITERIA.

STRUCTURE:

- DO NOT PENETRATE STRUCTURAL MEMBERS. ALL EQUIPMENT SUPPORTS SHALL BE ATTACHED TO THE LOAD BEARING MEMBERS OF STRUCTURAL ELEMENTS. DO NOT OVER-STRESS ANY STRUCTURAL MEMBERS. CONTACT STRUCTURAL ENGINEER FOR ALLOWABLE LOADS FOR SPECIFIC MEMBERS.
- 2. DO NOT UTILIZE POWER DRIVEN ANCHORS.
- REFER ALSO TO STRUCTURAL DIVISION FOR ACCEPTABLE ANCHORING AND SUPPORT MEANS, METHODS, AND LOCATIONS. PROVIDE FLEXIBLE CONNECTORS, EXPANSION LOOPS, EXPANSION JOINTS, ADDITIONAL FITTINGS OR EQUIVALENT TO ACCOMMODATE THE THERMAL
- EXPANSION OF THE BUILDING THROUGH STRUCTURAL EXPANSION JOINTS. PROVIDE SUCH FITTING AT EVERY PIPE, DUCT, CONDUIT, ETC. CROSSING OF A STRUCTURAL EXPANSION JOINT.

## FIRE STOPPING:

- PENETRATIONS THROUGH FIRE RATED WALLS AND FIRE RATED HORIZONTAL ASSEMBLIES SHALL BE PROVIDED WITH AN APPROVED FIRE STOPPING SYSTEM.
- PENETRATIONS THROUGH NON-FIRE RATED FLOOR OR FLOOR/CEILING ASSEMBLIES SHALL BE PROVIDED WITH AN APPROVED FIRE STOPPING SYSTEM. INSTALL FIRE STOPPING MATERIALS IN ACCORDANCE WITH THEIR UL AND ASTM

## **GENERAL SYSTEM DESCRIPTION:**

TESTED METHODS.

VAV SYSTEM WITH DUCTED RETURN. HYDRONIC HEATING HOT WATER SYSTEM FOR VAVS. THE BUILDING IS PROVIDED WITH A CENTRAL CHILLED WATER SYSTEM WITH CHILLERS AND COOLING TOWERS AND A CENTRAL HEATING HOT WATER SYSTEM

- WITH CONDENSING BOILERS. THE HEATING AND COOLING SYSTEM TYPE FOR EACH TENANT FLOOR IS A WATER-COOLED, HEAT RECOVERY, VARIABLE REFRIGERANT FLOW (VRF) SYSTEM. THE CONDENSER WATER LOOP SERVING EACH TENANT FLOOR IS PROVED WITH CLOSED LOOP FLUID COOLERS AND ELECTRIC BOILERS.
- THE HEATING AND COOLING SYSTEM TYPE FOR EACH TENANT AREA IS AN AIR-COOLED, HEAT RECOVERY, VARIABLE REFRIGERANT FLOW (VRF) SYSTEM. ALL TENANT PROVIDED VRF EQUIPMENT SHALL BE PROVIDED FROM AN OWNER APPROVED MANUFACTURER.
- THE HVAC SYSTEM SERVING TENANT AREAS IS AN OVERHEAD VAV SYSTEM WITH FAN POWERED VAV BOXES AND SINGLE-DUCT VAV BOXES. EACH PERIMETER AND CORE ZONE SHALL BE PROVIDED WITH ELECTRIC REHEAT.
- THE VENTILATION SYSTEM FOR TENANT OFFICE LEVELS IS AN ENERGY RECOVERY VENTILATOR (ERV) WITH AIR-COOLED DX COOLING, HEAT PUMP HEATING. SUPPLEMENTAL ELECTRIC RESISTANCE HEATING, AND ENERGY RECOVERY.
- VENTILATION FOR LEVEL 1 TENANT SPACES SHALL BE PROVIDED UNDER TENANT IMPROVEMENT SCOPE INCLUDING ALL VENTILATION EQUIPMENT, DUCTWORK TO PERIMETER LOUVERS, AND CONTROLS. REFER TO ARCHITECTURAL PLANS FOR PERIMETER LOUVER DETAILS.

## ENERGY CODE COMPLIANCE:

- THE PROJECT HAS BEEN DESIGNED UNDER THE ENERGY CODE INDICATED ON THE LEGEND SHEET.
- THE PROJECT IS UTILIZING THE PRESCRIPTIVE PATH OF [THE INTERNATIONAL ENERGY CONSERVATION CODE] [ASHRAE 90.1] INCLUDING ALL APPLICABLE MANDATORY AND PRESCRIPTIVE CODE PROVISIONS.

### PLENUM. THE CONTRACTOR SHALL PROVIDE A COMPLETE RETURN AIR PATH BETWEEN ALL RETURN AIR DEVICES (GRILLES ETC.) AND THEIR RESPECTIVE FAN UNIT. MAXIMUM VELOCITY OF RETURN AIR IN PLENUM SHALL GENERALLY NOT EXCEED 250 FEET PER MINUTE, NOR EXCEED 750 FEET PER MINUTE AT ANY CROSS-SECTION OF THE RETURN AIR PROVIDE BALANCING DAMPERS IN BRANCH DUCTS, WHERE SHOWN ON THE DRAWINGS, AND WHERE OTHERWISE REQUIRED FOR BALANCING. PROVIDE ALL OPEN-ENDED DUCTWORK AND OPEN-ENDED EQUIPMENT WITH 1/4" WIRE MESH SCREEN OVER OPENINGS, TRANSFER AIR DUCTWORK EXCLUDED. PIPE INSTALLATION: ALL PIPING SHALL BE ADEQUATELY SUPPORTED FROM THE BUILDING STRUCTURE TO PREVENT SAGGING, POCKETING, SWAYING OR DISPLACEMENT BY MEANS OF HANGERS AND SUPPORTS. PIPING IS NOT TO BE SUPPORTED BY EQUIPMENT. NO PRESSURIZED PIPING SYSTEMS (DOMESTIC WATER, CHILLED 2 WATER, HEATING WATER, ETC.) SHALL BE LOCATED EXPOSED IN FINISHED SPACES OR BELOW THE BUILDING SLAB UNLESS SHOWN OTHERWISE ON THE DRAWINGS. ISOLATE ALL PRESSURIZED PIPE AT EACH RISER, BRANCH, PIECE OF EQUIPMENT, AND AREA SERVED. PROVIDE DIELECTRIC UNIONS BETWEEN DISSIMILAR PIPING MATERIALS. 4. PROVIDE DIELECTRIC SEPARATION BETWEEN DISSIMILAR PIPE HANGER MATERIAL AND PIPE MATERIAL. PROVIDE MANUAL AIR VENTS AT PIPING HIGH POINTS. PROVIDE CAPPED HOSE-END DRAINS WITH ISOLATION VALVES AT PIPING LOW POINTS. CONTRACTOR SHALL BE RESPONSIBLE FOR EXPANSION AND CONTRACTION PROVISIONS. INSTALL ALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHIN THE PIPING SYSTEM. ENSURE ALL REQUIRED PIPE EXPANSION WILL OCCUR IN THE PROPER DIRECTION AND SEGMENT OF PIPE. PROPERLY ANCHOR (RE: SPECIFICATIONS) ALL PIPING REQUIRING EXPANSION/CONTRACTION ISOLATION. CONDENSATE DRAINAGE:

- PROVIDE CONDENSATE DRAINAGE FOR ALL COOLING COILS, 1 OVERFLOW PANS, AND DRAIN PANS.
- ROUTE CONDENSATE PIPING, FULL SIZE OF DRIP PAN CONNECTION, TO 2 NEAREST CODE APPROVED RECEPTACLE WITH INDIRECT DRAIN CONNECTION.
- HEAT TRACE CONDENSATE LINES FROM FOOD SERVICE EQUIPMENT. LOUVERS:
- ALL LOUVERS LOCATED ON EXTERIOR WALLS SHALL BE PROVIDED BY 1. ARCHITECTURAL DIVISION. REQUIRED LOUVER FREE AREAS ARE INDICATED ON DIVISION 23 DRAWINGS. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO CONFIRM THAT THE REQUIRED FREE AREA HAS BEEN PROVIDED, PRIOR TO CONNECTION TO THAT LOUVER. DIVISION 23 SHALL PROVIDE ALL LOUVER PLENUMS.

## CUTTING, PATCHING AND DEMOLITION:

- KEEP DEMOLITION & CUTTING TO MINIMUM REQUIRED FOR PROPER 1. EXECUTION OF WORK. BE RESPONSIBLE FOR ALL CUTTING AND PATCHING NECESSARY FOR
- THE COMPLETION OF THE WORK. NO CUTTING (NOT SHOWN ON THE CONTRACT DOCUMENTS) SHALL BE DONE WITHOUT THE APPROVAL OF THE ARCHITECT AS TO LOCATIONS,
- METHOD AND EXTENT OF THE CUTTING. REPAIR ALL ACCIDENTAL OR INTENTIONAL DAMAGE TO MATCH EXISTING 4. CONSTRUCTION WITH NO NOTICEABLE DIFFERENCE IN CONTINUITY, APPEARANCE OR FUNCTION.

![](_page_37_Picture_68.jpeg)

![](_page_38_Picture_0.jpeg)

GENER	AL	Ν	O
1. EXISTING DUCTW EQUIPMENT, ETC. S COMPILED FROM RI PREVIOUS DESIGN ACCURACY OF THE EXTENT OF UNDOC SINCE HAS BEEN FI INFORMATION IS SH THE "SCOPE OF WC EXERCISE OR BID S THOROUGH REVIEW PRIOR TO FINALIZIN	ORK HOW ECOF PLAN SE PL UMEN ELD \ IOWN DRK," HOUI V OF G.	PI NI S. AN FIE D FIE	PIN HA: DR SD SD FIF HIN ELD
2. THE DRAWINGS IS NATURE. DEMOLISH BOLD AND DASHED GENERAL DEMOLITI ARCHITECTURAL DE MECHANICAL PLANS THE LIMITS OF DEM	s dia Ied V To R Ion S Rawi S To Oliti	GR VO EF CC NG FU	RK ILE DPE S / RT
3. SOME NOTES ANI RECORD DRAWING EXISTING DUCTWOI EQUIPMENT FOR CL	D CAI S ANI RK, P _ARIT	llo D R IPII Y.	DU <sup>-</sup> REF NG
4. PATCH AND SEAL REMAIN AT ALL POIL DISCONNECTION NO RECONNECTED WIT	EXIS NTS ( DT O TH NE	STIN DF FHI W	NG ER' W(
5. CAP ALL EXISTING ALL POINTS OF DISC OTHERWISE BEING RECONNECT	g Pipi Conn Ted W	ING IEC	G T CTI H N
6. CAP OR COVER D DEMOLITION AND C (TYPICAL).	OUCT	OF IRI	JC.
7. CONTRACTOR TO WORK WITH EXISTIN RELOCATING AS NE	) COC NG S` CESS	ORI YST SAF	DIN FEN RY.
8. DEMO GRDs IN AL CEILINGS ARE TO B ARCHITECTURAL DE	L LO E DEI EMO I	CA MO PL/	TIC LIS
9. CONTRACTOR TO AND WATER BALAN SYSTEMS, PROVIDE CONSTRUCTION AN REPORT AT END OF SCHEDULE.	) PRC CE F( BAL D FO CON	ovii Or An R F Ist	DE AL CIN FIN
10. REBALANCE ALL EXHAUST FAN SYST DEMO/REWORK IS S DRAWINGS, REFER LOCATIONS.	AFFI EMS SHOV TO P	EC , W /N LA	TEI 'HE ON NS
11. RECONNECT (E) EQUIPMENT.	PIPIN	١G	тс
12. EXTEND (E) PIPII EQUIPMENT.	NG T(	D F	REL
13. MAINTAIN SYSTE SYSTEMS THAT PAS SCOPE AREA AND S OUTSIDE THE SCOP	EM CO SS TH SERVI PE OF	DN RC E C	TIN DU( DTF OF

![](_page_38_Figure_4.jpeg)

![](_page_39_Picture_0.jpeg)

![](_page_39_Picture_2.jpeg)

![](_page_39_Figure_4.jpeg)

![](_page_40_Picture_0.jpeg)

![](_page_40_Figure_2.jpeg)

## 1 ROOF MECHANICAL FLOOR PLAN

G	GENE	ERAL	NO
1. THE DF NATURE. RESPONS TRANSITI IN DUCTV COMPLE <sup>-</sup> FUNCTIO COORDIN ANY PRIC FACTORS	RAWING THE C SIBLE F ONS, E OORK, TE THE NAL IN NATED CING EF S INTO	GS ARE ONTRAC OR ALL ELBOWS PIPING, WORK STALLA WITH AL FORT S ACCOU	DIAGF CTOR OFFS , ETC. SUPP IN A C TION T LOTH SHALL NT.

PRIOR TO ROUGH-IN.

STRUCTURAL

![](_page_40_Figure_18.jpeg)

![](_page_40_Figure_19.jpeg)

![](_page_41_Picture_0.jpeg)

2

![](_page_41_Figure_2.jpeg)

4

5

4

1 LEVEL ONE MECHANICAL PIPING DEMO FLOOR PLAN 

3

OTHERWISE (TYPICAL). SCHEDULE. LOCATIONS. EQUIPMENT.

![](_page_41_Figure_7.jpeg)

![](_page_42_Picture_0.jpeg)

![](_page_42_Figure_2.jpeg)

![](_page_42_Figure_4.jpeg)

![](_page_42_Figure_7.jpeg)

![](_page_43_Figure_0.jpeg)

## HUMIDIFIER PIPING CONNECTION - P Not To Scale

-STEAM MAIN

![](_page_43_Figure_3.jpeg)

3

![](_page_43_Figure_4.jpeg)

**ROOFTOP UNIT AND CURB DETAIL** 

4

Not To Scale

## TYPICAL WATER COIL CONNECTION DETAIL (2 WAY CONTROL) Not To Scale

<u>–AHU</u>

-ON-OFF CONTROL VALVE

![](_page_43_Figure_6.jpeg)

![](_page_43_Figure_7.jpeg)

![](_page_43_Figure_8.jpeg)

# 1. INSTALL MANUAL AIR VENT AT HIGH POINTS WHERE FLOW

CHANGES DIRECTION. INSTALL AUTOMATIC AIR VENT TO PIPING WHICH INSTALLED IN EXPOSED AREA INCLUDING FAN ROOM AND MECHANICAL ROOM. 2. INSTALL HOSE VALVE ABOVE CEILING IN AN ACCESSIBLE

3. WELDED PIPE FITTING SHOWN. SCREWED FITTING

![](_page_43_Figure_13.jpeg)

<u>NOTE:</u>

![](_page_43_Figure_14.jpeg)

### #10x3/4" SELF TAPPING CADMIUM PLATED SHEET METAL SCREWS. ALL STRAPS TO BE TIGHT AGAINST DUCT AND SUPPORT MEMBERS (TYP)

![](_page_43_Picture_16.jpeg)

3/4" LP-

-FLEXIBLE CONNECTION ON

SA & RA DUCTS

![](_page_43_Figure_19.jpeg)

4

![](_page_43_Figure_22.jpeg)

## **CONDENSATE COOLING UNIT** / Not To Scale

1. UNIT MAY BE INSTALLED HORIZONTALLY WITH 1" PER FT

NOTES:

5

SLOPE TOWARD DRAIN.

-THERMO MECHANICAL COLD WATER MIXING VALVE, OPEN ON RISE

**6" CAPILLARY TUBE AND SENSOR** 

SET @ 120 'FA

-3/4" TO FRS

6

DISCHARGE WATER TEMPERATURE

![](_page_43_Figure_25.jpeg)

![](_page_44_Figure_0.jpeg)

![](_page_44_Figure_1.jpeg)

![](_page_44_Figure_2.jpeg)

![](_page_44_Figure_4.jpeg)

## VARIABLE VOLUME SINGLE DUCT SYSTEM AIR FLOW DIAGRAM FOR OPERATING ROOM 2 Not To Scale

![](_page_44_Figure_7.jpeg)

![](_page_45_Figure_0.jpeg)

![](_page_45_Figure_3.jpeg)

4

### ABBR DESCRIPTION PHC PREHEAT COIL PRESSURE TRANSMITTER PT PZ PIEZOMETER RING RETURN AIR RA RF RETURN FAN SPACE TEMPERATURE SENSOR S S/S START/STOP SA SUPPLY AIR SC SPEED CONTROL SD SMOKE DETECTOR SF SUPPLY FAN SPT STATIC PRESSURE TRANSMITTER SR SWITCHING RELAY THERMOSTAT ТМ THERMAL MASS METER TO TIMED OVERRIDE SWITCH TS TEMPERATURE SENSOR TT TEMPERATURE TRANSMITTER TTAB TEMPERATURE TRANSMITTER W/AVERAGING BULB V VALVE VFD VARIABLE FREQUENCY DRIVE

### VP VIRTUAL POINT VS VELOCITY SENSOR

WBT WET BULB TEMPERATURE TRANSMITTER

## CONTROL SYSTEM GENERAL NOTES:

DESIGN INTENT:

A. THE CONTROL DRAWINGS AND SEQUENCES ARE PROVIDED TO COMMUNICATE A DESIGN INTENT FOR CONTROL OF INDICATED SYSTEMS. ALTERNATIVE CONTROL METHODS MAY BE USED WHERE PRACTICAL OR WHERE NECESSARY TO MEET REQUIRED SYSTEM PERFORMANCE. WHERE ALTERNATIVE CONTROL METHODS ARE USED TO MEET THE DESIGN INTENT, THESE METHODS SHALL BE INDICATED IN SUBMITTAL TO ENGINEER FOR EVALUATION. ENGINEER SHALL DETERMINE IF A SUBMITTED ALTERNATIVE CONTROL METHOD MEETS THE DESIGN INTENT.

6

B. ALTHOUGH THE MECHANICAL DRAWINGS MAY INDICATE A PRODUCT AS BASIS OF DESIGN, THE CONTROL DRAWINGS AND SEQUENCES ARE PROVIDED TO INDICATE A DESIGN INTENT FOR THE COMPLETE SYSTEM THAT IS APPLICABLE TO MULTIPLE POTENTIAL PRODUCTS OR MANUFACTURERS. CONTROL METHODS SHALL BE DEVELOPED BY THE TEMPERATURE CONTROLS CONTRACTOR AND/OR EQUIPMENT PROVIDER IN ORDER TO ACHIEVE THE REQUIRED SYSTEM PERFORMANCE.

**REQUIRED COORDINATION:** 

- A. THE DIVISION 23 CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN EQUIPMENT PROVIDERS AND TEMPERATURE CONTROLS CONTRACTOR IN ORDER TO FULLY SATISFY THE DESIGN INTENT. INTERFACE BETWEEN THE BMS AND CONTROLLED EQUIPMENT, INCLUDING ITEMS PROVIDED BY EACH ENTITY, COMMUNICATION PROTOCOL, SIGNAL TYPE, ETC., SHALL BE COORDINATED PRIOR TO RELEASE OF EQUIPMENT FOR PRODUCTION.
- B. THE TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE SUBMITTAL DRAWINGS AND PRODUCT DATA FOR THE ENTIRE CONTROL SYSTEM TO ENGINEER FOR REVIEW. THE DIVISION 230900 SUBMITTAL SHALL DISTINGUISH WHERE SPECIFIC SEQUENCE ELEMENTS ARE PROVIDED WITHIN THE BUILDING MANAGEMENT SYSTEM OR WITHIN PACKAGED EQUIPMENT CONTROLLERS. RE: SPECIFICATIONS FOR REQUIREMENTS.

C. REFER TO SPECIFICATION SECTION 23 05 01 MECHANICAL AND ELECTRICAL COORDINATION.

**SEQUENCE OF OPERATION GENERAL NOTES:** 

## <u>GENERAL:</u>

- A. ALTHOUGH EACH SEPARATE CONTROL DIAGRAM MAY INDICATE AN OUTDOOR AIR TEMPERATURE SENSOR, OUTDOOR AIR HUMIDITY SENSOR, AND/OR OUTSIDE AIR CARBON DIOXIDE SENSOR, TEMPERATURE CONTROLS CONTRACTOR MAY UTILIZE ONE OF EACH SENSOR AS A COMMON INPUT TO THE SYSTEM FOR USE IN MULTIPLE SEQUENCES. COORDINATE LOCATION WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
- PROVIDE INDIVIDUAL INPUTS OR OUTPUTS FOR EACH POINT LISTED IN THE POINTS LISTS OR CONTROL DIAGRAM. PROVIDE ANY ADDITIONAL POINTS NOT LISTED IN THE POINTS LIST OR CONTROL DIAGRAM, BUT REQUIRED TO MEET THE SEQUENCE OF OPERATION, AT NO ADDITIONAL COST TO THE OWNER. ALL ANALOG OUTPUTS SHALL BE 4-20MA, 0-10VDC OR 0-20VDC UNLESS OTHERWISE INDICATED.
- C. ALL SETPOINTS SHALL BE FULLY ADJUSTABLE AT THE OPERATOR WORKSTATION UNLESS NOTED OTHERWISE.
- D. PROVIDE OVERRIDE CONTROL OF ALL POINTS AT THE OPERATOR WORKSTATION UNLESS NOTED OTHERWISE OR WHERE PROHIBITED BY EQUIPMENT PACKAGED CONTROLLERS.
- E. IN THE EVENT OF A POWER OUTAGE OR OTHER MALFUNCTION, THE CURRENTLY ENABLED CONTROLS SEQUENCES SHALL BE MAINTAINED. RE: SPECIFICATIONS. IN ADDITION, CHILLED WATER VALVES SHALL FAIL CLOSED AND HEATING WATER VALVES SHALL FAIL OPEN.

## OCCUPANCY SCHEDULES:

- A. THE FOLLOWING SPECIAL OCCUPANCY SCHEDULE MODES ARE HEREBY DEFINED: [DESIGNER] NOTE: EDIT THESE MODES CAREFULLY TO MATCH YOUR PROJECT. REMOVE MODES THAT DO <u>NOT APPLY.]</u>
- 1. EVENT OCCUPANCY MODE
- 2. CONCERT OCCUPANCY MODE
- 3. OCCUPIED MODE 4. UNOCCUPIED MODE
- B. ANY DEVICE UTILIZING ON/OFF CONTROL OR SCHEDULING VIA BMS SHALL BE CAPABLE OF BEING PROGRAMMED TO CONFORM TO ANY OF THE ABOVE SEQUENCES.
- C. THE BMS SHALL STAGE AIR HANDLERS TO/FROM OCCUPIED MODE TO MINIMIZE SUDDEN CHANGES IN SYSTEM FLOW REQUIREMENTS.

INITIAL SPACE THERMOSTAT SEPOINTS

A. INITIAL SPACE THERMOSTAT SETPOINTS SHALL BE AS FOLLOWS:

1. OCCUPIED OFFICE AND CONFERENCE ROOM SPACES:

COOLING: 76F HEATING: 70F

2. MECHANICAL AND ELECTRICAL ROOMS:

COOLING: 80F HEATING: 65F

## 3. BUILDING ENTRY VESTIBULES:

COOLING: 85F (WHERE COOLING IS PROVIDED) HEATING: 60F

4. MISCELLANEOUS HEATING-ONLY AREAS: HEATING: 65F

ALL SPACE THERMOSTAT SETPOINTS CORRESPONDING TO EQUIPMENT CONTROLLED BY THE BMS SHALL BE ADJUSTABLE FROM THE BMS OPERATOR STATION.

## MISCELLANEOUS DDC CONTROL:

- A. AUTOMATED INTERFACE: PROVIDE WEB-BASED INTERFACE FOR REMOTE ACCESS TO THE BMS. INTERFACE SHALL BE PASSWORD PROTECTED AND SHALL ALLOW FOR FULL CONTROL OF ALL BMS FUNCTIONALITY.
- B. FIRE ALARM SYSTEM INTERFACE: PROVIDE CONNECTION TO FIRE ALARM SYSTEM AND REPORT FIRE ALARM CONDITION AT BMS OPERATOR STATION.
- C. SMOKE EVACUATION FANS: TO BE CONTROLLED PER THE SCHEDULE AND SMOKE EVACUATION DIAGRAMS.
- D. PUMPS SHALL OPERATE PER OTHER APPLICABLE CONTROL SECTIONS. BMS SHALL MONITOR ALL PUMPS INCLUDING GLYCOL FEED PUMPS. DOMESTIC HOT WATER RECIRCULATION PUMP(S) ARE EXCLUDED.
- E. REFERENCE MECHANICAL EQUIPMENT SCHEDULES (ESPECIALLY "FANS") FOR ADDITIONAL CONTROL SEQUENCES.

## F. FANS:

5

- 1. UNLESS NOTED OTHERWISE, PROVIDE START, STOP, AND STATUS AT BMS OPERATOR STATION FOR ALL FANS. PROVIDE STATUS ONLY FOR FANS OPERATED VIA LINE VOLTAGE THERMOSTAT, MANUAL SWITCH, OR LOCAL TIMER. FAN STATUS SHALL BE INDICATED VIA CURRENT SENSOR AT FAN ELECTRICAL CONNECTION.
- 2. RE: MECHANICAL SCHEDULES FOR ADDITIONAL REQUIREMENTS.

![](_page_45_Figure_66.jpeg)

![](_page_46_Figure_0.jpeg)

### ROOM PRESSURE MONITOR WITH DIGITAL READ-OUT AND LOCAL ALARM MOUNT ON WALLS AS INDICATED ON PLANS OUTSIDE OF OPERATING ROOM

 $\rightarrow$  SA DISPERSION MANIFOLD

ONE IN OR FOR H-1 REUSE EXISTING LOCATIONS FOR H-2 CONTROL

2

![](_page_46_Figure_12.jpeg)

SPACE HUMIDITY SENSOR.

CD  $\mathsf{RELIEF}\,\mathsf{AIR} \in$ RELIEF AIR DAMPER VFD DI AI AO -// \_\_\_\_\_ \\\\\\\\\ CD CD AFM <sup>\_</sup> OUTSIDE AIR

4

**SEQUENCE OF OPERATION:** 

OUTSIDE AIR DAMPER

- A. GENERAL:
- SEQUENCE. PACKAGED CONTROLLER: 2.1. DUCT STATIC PRESSURE SETPOINT RELATIVE HUMIDITY
- B. OCCUPIED MODE:
- TEMPERATURE (DAT).
- C. UNOCCUPIED MODE: TO UNOCCUPIED MODE SETPOINTS.
- D. FAN SAFETY CONTROLS:
- REACHES A HIGH-LIMIT OF 4.0 INCHES WC (ADJ.).
- PRESSURE REACHES A LOW-LIMIT OF -4.0 INCHES WC (ADJ.).
- E. VFD CONTROL:
- PRESSURE SENSORS SHALL BE LOCATED BY THIS DIVISION. EXHAUST FAN.
- DISCHARGE AND THE SUPPLY AIR VAV BOX.
- AND THE RETURN AIR VAV BOX.
- SENSING SECTION WITH SELF AVERAGING MANIFOLD.

4

RTU CONTROL NO SCALE

![](_page_46_Figure_33.jpeg)

6

![](_page_46_Figure_36.jpeg)

	MANUFACTURER/	
CODE	MODEL	S
RTU-8	AAON / RN-009	OPERA
GENERAL NOTE	<u>S:</u>	
1. PROVIDE PRE	MIUM EFFICIENCY MOTORS FOR	MOTORS 1 HP AM
2. PROVIDE MER	V 8 FILTERS. HEPA FILTERS WILL	BE PROVIDE AT (
3. UNIT COOLING	G CAPACITY SHALL BE SELECTED	TO MEET BOTH
4. REFRIGERANT	SHALL BE R-410A OR R-134A.	
5. JOB SITE ELE	VATION = 5300 FT.	
6. RTU SHALL HA	AVE SINGLE POINT ELECTRICAL C	ONNECTION. EX
7. DUCT SMOKE	DETECTORS IN THE RETURN AIR	STREAM BY DIV
8. PROVIDE MAN	UFACTURERS RECOMMENDED S	ERVICE CLEARAI
9. HEATING AND	COOLING CAPACITIES AND FAN	STATIC PRESSU
10. PROVIDE 100	% OSA MODULATING ECONOMIZ	ER.
11. CAPACITY BA	ASED ON 105°F AMBIENT TEMPER	ATURE.
12. PROVIDE 14"	HIGH ROOF CURB. COORDINATE	CURB PITCH WIT
13. HW COIL: EW	/T: 140°F, LWT: 110°F , 30% PROPY	LENE GLYCOL.

D

A

1

CODE	AREA SERVED
0 (A) () O (	
(VAV) 2-1	VISITING PHYSICIAN/CONSULTATION
(VAV) 2-2	ED WAITING 1604
(VAV) 2-4	TREATMENT/SECURED HOLDING
(VAV) 2-6	MINOR PROCEDURE 1636
(VAV) 2-7	CLEAN WORK 1634
(VAV) 2-8	<b>DECONTAMINATION 1635</b>
(VAV) 2-9	SCOPE CLEANING, HSKP, ENDO
VAV) 8-01	OPERATING ROOM
(RAV)8-01	OPERATING ROOM
(EAV) 3	PUBLIC TLT 1603 & HSKG 1620
(EAV) 4	HSKP
(EAV) 7	SOILED WORK
GENERAL NOT	T <u>ES:</u>
I. CONTRO	DLS SHALL BE BY CONTROL MANUFACTURE

4

2. MOUNT WITH 3 STRAIGHT DUCT DIAMETERS UPSTREAM OF THE BOX.

3. MAXIMUM INLET S.P.= 2.0" W.G. 4. EWT = 130°F, LWT = 110°F, 30% PROPYLENE GLYCOL. 5. UNLESS NOTED OTHERWISE BELOW, BOX SHALL BE OPERATE IN OCCUPIED MODE CONTINUOUSLY.

REMARK NOTES:

B. BOX OCCUPANCY MODE CONTROLLED BY BMS SCHEDULE. C. NEW VAV BOX.

D. EXISTING EAV BOX. MODIFY DESIGN SETPOINTS AT BAS TO NEW SCHEDULED CFM VALUES.

	PACKAGED / DX ROOF TOP UNIT SCHEDULE																																
			SUPPLY	FAN				EXHAUST F	AN		MIN.				COOLING CAP.					F	HW COIL CA	P. (MBH)									ELECTRICAL		
AREA		ESP			MOTOR		ESP			MOTOR	OSA		EAT (°F)		NET TOTAL	NET SENS	UNIT	DESIGN	MAT	LAT			WPD										
SERVED	CFM	(IN.)	CONTROL	BHP	HP	CFM	(IN.)	CONTROL	BHP	HP	CFM	CONDITION	DB	WB	MBH	MBH	LAT (°F) DB/WB	CFM	(°F)	(°F)	MBH	GPM	(FT)	ROWS	FPI	VOLT	PH N	1CA	MOCP	DISC.	FUSE	FEEDER	EMPOWER
ATING ROOM	2,000	4.1	VFD	3.25	5	1,800	0.8	VFD	0.72	1	700	DRY BULB	83.0	60.4	74.9	62.0	47.1/44.2	2,000	43.3	84.5	96.0	12.0	3.6	2	10	480	3	30	35	60A/3P	35A FRS-R	(3#8, 1#10G)3/4"C	Y
												ENTHALPY	78.6	61.9	82.3	54.0	47.5/44.6																
																													ł			·	

PAND OVER PER MENA STANDARD MG1-2003, TABLES 12-12 AND 12-13. AT CEILING GRILLES IN OR

TH DRY BULB AND ENTHALPY CONDITIONS. EQUIPMENT SUBMITTAL SHALL BE INCLUDE UNIT COOLING PREFORMANCE AT BOTH CONDITIONS.

3

EXCEPT FOR DEDICATED 120 VOLT, 20 AMP CIRCUIT FOR LIGHTS AND CONVENIENCE RECEPTACLE.

DIV. 26. RANCE AROUND ENTIRE UNIT.

SSURES ARE AT JOB SITE ALTITUDE.

VITH ROOF SLOPE.

### **HUMIDIFIER SCHEDULE (ELECTRIC)** CODE MANUFACTURER/ OUTPL (LBS/H (H) MODEL NO. DRI-STEEM/RTS-63-1 1 6 2 DRI-STEEM/RTS-144-2 14

GENERAL NOTES:

1. JOB SITE ELEVATION = 5300 FT.

2. SUBMIT ABSORPTION DISTANCES.

3. PROVIDE RTS UNIT CONTROLLER WITH BACNET INTERFACE. CONTROLS SHALL INCLUDE HIGH-LIMIT HUMIDISTAT AND AIR FLOW PROVING SWITCH 4. PROVIDE ULTRA-SORB LV DISPERSION GRID WITH INSULATED TUBES FOR MOUNTING IN SUPPLY AIR DUCT.

4

5. PROVIDE UNIT FOR USE WITH DI WATER. 6. PROVIDE CONDENSATE COOLER IN HUMIDIFIER. PROVIDE CONTROLS FOR COOLER OPERATION.

7. EMERGENCY POWER

## ACTURER AND INSTALLED AT THE FACTORY (SEE SPECIFICATIONS).

A. EXISTING VAV BOX. MODIFY DESIGN SETPOINTS AT BAS TO NEW SCHEDULED CFM VALUES.

	<b>GRILLE REGISTER DIFFUSER SCHEDULE</b>												
	MANUFACTURER/												
CODE	MODEL NO.	SERVICE	TYPE	ACCESSORIES	FACE SIZE	REMARKS							
А	PRICE / SMDA	SUPPLY	LOUVERED	LAY-IN CEILING FRAME	24X24	A							
В	PRICE/PDDR	RETURN	PERFORATED	LAY-IN CEILING FRAME	24X24								
D	PRICE/APDDR	RETURN	PERFORATED	GYP BOARD CEILING FRAME	12X12	С							
Е	EXISTING	SUPPLY	LINEAR SLOT	48" 2-SLOT, 1" SLOT WIDTH	SEE PLANS	E							
F	EXISTING	SUPPLY	LOUVERED	LAY-IN CEILING FRAME	24X24	E							
G	EXISTING	EXHAUST	PERFORATED	LAY-IN CEILING FRAME	24X24	E							
S1	PRECISION AIR	SUPPLY	LAMINAR	HEPA-VENT HEP-DS A SERIES	48X24	F, G							
S2	PRECISION AIR	SUPPLY	LAMINAR	HEPA-VENT HEP-DS A SERIES	36X24	F,G							

GENERAL NOTES:

1. SEE PLANS FOR CFM AND NECK SIZE.

2. MAXIMUM NOISE CRITERIA (NC) SHALL BE 30 UNLESS OTHERWISE NOTED. 3. COLOR TO BE COORDINATED WITH ARCHITECT.

4. MATERIAL IS STEEL UNLESS OTHERWISE NOTED.

5. PROVIDE BALANCING DEVICE FOR ALL GRD'S UNLESS OTHERWISE NOTED.

6. BORDER TYPES LISTED ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY CEILING SYSTEMS AND PROVIDE APPROPRIATE FRAME AND BORDER TYPE AS REQUIRED.

REMARK NOTES:

A. 24 X 24 MODULE W/ 17-1/2 X 17-1/2 LOUVERED FACE.

B. 12 X 12 MODULE W/FULL FACE LOUVERED FACE. C. ALUMINUM CONSTRUCTION.

D. HEPA FILTER GRILLE WITH INLET DIFFUSION BASKET AND FIELD INSTALLED AND CALIBRATED LED FILTER INDICATOR.

E. EXISTING GRD TO BE RELOCATED TO NEW CEILING

F. SUPPLY DIFFUSERS PART OF GASKETED INTEGRATED CEILING SYSTEM. 1-1/2" FASK BACKED INSULATION. G. PRECISION AIR PRODUCT. INSTALL PER MANUFACTURER'S REQUIREMENTS.

				•		· ·							
PUT	ELEC INPUT		DISPERSION		AIR	DUCT SIZE	ELECTRICA	AL.					
HR)	(KW)	CONTROLS	MANIFOLDS	CFM	TEMP. (°F)	(W"XH")	VOLT	PH	FLA	DISC	FUSE	FEEDER	
3	25	SCR	ULTRA-SORB LV	2,000	55	20 X 16	480	3	30.1	60A/3P	40A FRS-R	(3#8, 1#10G)3/4"C	
4	48	SCR	ULTRA-SORB LV	7,000	55	44 X 20	480	3	57.8	100A/3P	80A FRS-R	(3#4, 1#8G)1-1/4"C	

6

![](_page_47_Figure_45.jpeg)

	1 NOTES			ΊΛΤΙ	3 <b>DNS</b>		4		SVME				6	
	1. ALL EXPOSED RACEWAYS ARE TO BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS OR STRUCTURAL		ADDREV		M		LIGHTING		POWER			RACEWA	Y LEGEND	
	MEMBERS SUCH THAT THEY FOLLOW STRUCTURAL SURFACE CONTOURS AND SHALL BE INSTALLED SUCH THAT THEY DO NOT OBSTRUCT PASSAGEWAYS OR ACCESS TO EQUIPMENT. MULTIPLE RACEWAYS SHOULD BI INSTALLED GROUPED TOGETHER. THE LOCATION OF PUBLICLY VISIBLE RACEWAYS SHALL BE APPROVED BY	E A/AMP AC	AMPERE ABOVE COUNTER	MA MAX			STRIP LIGHT	φ	WALL SIMPLEX RECEPTACLE		BRANCH CIRCUIT HOMERUN TO	PANELBOARD,		
	THE ARCHITECT PRIOR TO INSTALLATION. (EXTRA TIME SHOULD BE ALLOWED FOR THIS REVIEW AND APPROVAL.)	AF AFF	AMPERE FUSE/FRAME ABOVE FINISHED FLOOR	MB	MAIN BREAKERS		WALL MOUNTED STRIP LIGHT WALL MOUNTED LINEAR	Φ u	WALL DUPLEX RECEPTACLE	<u>_A:2</u>	<u>,4</u> NUMBER OF ARROWS INDICATE	S NUMBER OF CIRCUI	TS, NUMERICAL INDICATES CIRC	CUIT NUMBER.
	<ol> <li>THE DISCONNECTING MEANS FOR ALL MECHANICAL EQUIPMENT SHALL BE ACCESSIBLE AND HAVE THE CLEARANCE IN FRONT AS REQUIRED BY NEC AMENDMENTS.</li> </ol>	AFG AHU	ABOVE FINISHED GRADE AIR HANDLING UNIT	MCC				$\Phi_{Q}$	WALL DUPLEX WITH USB	<u>A:2</u>	BRANCH CIRCUIT HOMERUN CO	NTROLLED BY LIGHTII CUIT #2 IS ON ZONE A	NG CONTROL SYSTEM. FIRST HE ). REFER TO LIGHTING CONTRO	EXAGON LETTER CORRES
_	3. ALL CEILING ATTACHED OBJECTS AND FLOOR ATTACHED EQUIPMENT INCLUDING BUT NOT LIMITED TO PENDANT LIGHTING FIXTURES, GENERAL LIGHTING, MULTIPLE RACEWAYS, GENERATOR, TRANSFORMER	AIC AL	AVAILABLE INTERRUPT CURRENT ALUMINUM	MDF			RECESSED 2'X2'	Ŵ	WALL DUPLEX RECEPTACLE (EMERGENCY)					
	OBJECTS FOR SEISMIC ZONE AS REQUIRED BY STATE AND LOCAL CODES.	AM ANN		MECH	MAIN DISTRIBUTION PANEL		RECESSED 2'X4'	<b>\</b>	WALL FOURPLEX RECEPTACLE		• UNDERGROUND FEEDER			
	<ol> <li>ALL SWITCHGEAR, SWITCHBOARDS AND TRANSFORMERS SHALL HAVE A 4 INCH HOUSE KEEPING PAD. UNDER NO CONDITION SHALL THE HIGHEST SWITCH OR BREAKER EXCEED 6'-6" AFF.</li> </ol>	ANT	ANTENNA AVAILABLE SHORT-CIRCUIT CURRENT	MFR MH	MANUFACTURER MANHOLE	0	SURFACE MOUNTED 2'X4'	€	WALL FOURPLEX RECEPTACLE (EMERGENCY)			IIT HOMERUN		
	<ol> <li>DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. ABSOLUTE ACCURACY IS NOT GUARANTEED AND THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS WITH OTHER TRADES, ETC., AT THE SITE AND SHALL</li> </ol>	ATS		MIN MLO	MINIMUM MAIN LUGS ONLY		SURFACE MOUNTED 2'X2'	Ψ^ •	(FOR "X" SEE RECEPTACLE MODIFER TAGS TABLE)		CONDUIT DOWN			
	SATISFACTORILY ADAPT THEIR WORK TO ACTUAL CONDITIONS AT THE BUILDINGS. THE DRAWINGS ARE DIAGRAMMATICAL IN NATURE AND SHALL NOT BE SCALED. HOWEVER THIS DOES NOT RELIEVE ANY SUB- CONTRACTOR FROM COORDINATING THEIR WORK WITH ALL OTHER TRADES AND FROM AD JUSTING THEIR	AUX		MOCP MOV	MAXIMUM OVERCURRENT PROTECTION MOTOR OPERATED VALVE		RECESSED WALL / STEP LIGHT		(FOR "X" SEE RECEPTACLE MODIFER TAGS TABLE)		CONDUIT RUNS UNDERFLOOR	R BELOW GRADE		
	WORK AS REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING COSTS TO BECOME THOROUGHLY FAMILIAR WITH THE ACTUAL CONDITIONS OF THE	7.000	B	MPOE MTG	MAIN POINT OF ENTRY MOUNTING HEIGHT		WALL MOUNTED FLOODLIGHT	Ŷ		OR	CONDUIT RUN CONCEALED IN V	ALLS OR CEILING, OR	EXPOSED WHEN CEILING ARE I	NOT PRESENT.
	<ol> <li>COORDINATE AND ADJUST ALL WORK BETWEEN TRADES AND EXISTING CONDITIONS IN ORDER TO</li> </ol>	BFC BFG	BELOW FINISHED CEILING BELOW FINISHED GRADE	MTS MS	MANUAL TRANSFER SWITCH MOTOR STARTER	У О	WALL MOUNTED SCONCE SURFACE MOUNTED DOWN LIGHT	Ф Ф	WALL CLOCK RECEPTACLE		REC		ODIFIER TAGS	
	ACCOMPLISH A NEAT, INTEGRATED AND EFFICIENT INSTALLATION WHICH INCLUDE BUT ARE NOT LIMITED TO: a. EXAMINE THE CONTRACT DOCUMENTS OF ALL TRADES (IE. THE ARCHITECTURAL REFLECTED CEILING PLAN,	BKR BOH	BREAKER BACK OF HOUSE	MSB MTD	MAIN SWITCHBOARD MOUNTED	0>	SURFACE MOUNTED WALL WASH	Ŷ	WALL JUNCTION BOX	TAG A	OUTLET RATING NOT USED	NEMA/CAT NO	FEEDER (NOTE 1)	WIRING NO
	MECHANICAL HVAC DRAWINGS, ELECTRICAL LIGHTING PLAN, FIRE PROTECTION PLAN, ETC.).	BW	BUS-WAY	MTG MTGB	MOUNTING MAIN TELECOMMUNICATIONS GROUND BUS		RECESSED DOWN LIGHT RECESSED WALL WASH	Ŷ	WALL FURNITURE FEED	В	NON-LOCKING, 30A, 125V, 1PH	5-30R	2#10,#10G,3/4"C (60FT)	HOT-NEUT-C
	WITH THE MATERIALS AND EQUIPMENT OF THE OTHER TRADES.	С	CONDUIT	MTR MV	MAIN TELECOM ROOM MEDIUM VOLTAGE		RECESSED 1X4 WALL WASH	Ø	FLOOR DUPLEX RECEPTACLE	D	NON-LOCKING, 30A, 250V, 1PH	6-30R	2#10,#10G,3/4"C (120FT)	HOT-HOT-G
	COORDINATING INSTALLATION OF ALL WORK (IE. LOCATING ALL LIGHTING FIXTURES IN CEILING WITH CEILING CLEARANCES, RACEWAYS, PIPING, EQUIPMENT FOR CLEARANCE THROUGHOUT).	CAB CAM	CABINET CAMERA		N			<b>\</b>	FLOOR FOURPLEX RECEPTACLE (POWER/DATA/COMBO DEVICE. REFER TO TECHNOLOGY DRAWINGS)	F	NOT USED	- 50K		- HOT-HOT-G
	d. THE ELECTRICAL DRAWINGS INDICATE THE ELECTRICAL REQUIREMENTS FOR A SIGNIFICANT PORTION OF THE MECHANICAL AND PLUMBING SYSTEMS. ADDITIONAL MECHANICAL AND PLUMBING EQUIPMENT IS	CB CCTV	CIRCUIT BREAKER CLOSED CIRCUIT TELEVISION	N NEC	NEUTRAL NATIONAL ELECTRICAL CODE	-¢-	PENDANT LIGHT	♣AV	FLOOR FOURPLEX RECEPTACLE WITH AV (POWER/DATA/AV COMBO DEVICE. REFER TO TECH, DRAWINGS)	G N H N	ION-LOCKING, 20A, 125/250V, 1PH ION-LOCKING, 50A, 125/250V, 1PH	14-20R 14-50R	3#12,#12G,3/4"C (100FT) 3#6,#10G,1"C (100FT)	HOT-HOT-NEU HOT-HOT-NEU
E	ADDITIONAL INFORMATION. PROVIDE COMPLETE WIRING AND FUSIBLE DISCONNECTING MEANS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT.	CKI	CIRCUIT	NF	NON FUSED		MONOPOINT TRACKHEAD		CONVENTION CENTER FLOOR BOX.	J	NOT USED LOCKING, 20A, 125V, 1PH	- L5-20R	- 2#12,#12G,3/4"C (50FT)	- HOT-NEUT-C
	7. DEFINITIONS:	COMP	COMBINATION		NORMALLY CLOSED		TRACK WITH TRACKHEADS	0	JUNCTION BOX	K L	LOCKING, 30A, 125V, 1PH LOCKING, 20A, 250V, 1PH	L5-30R L6-20R	2#10,#10G,3/4"C (60FT) 2#12,#12G,3/4"C (100FT)	HOT-NEUT-C HOT-HOT-G
	a. "FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO AN ITEM OF EQUIPMENT.	COND CT	CONDUCTOR CURRENT TRANSFORMER	NO	NORMALLY OPEN	∳ ⊐⊸	BURIAL FIXTURE POLE MOUNTED LIGHT WITH ARM	0	FLOOR FURNITURE FEED	M N	LOCKING, 30A, 250V, 1PH NOT USED	L6-30R -	2#10,#10G,3/4"C (120FT)	HOT-HOT-G
	c. "PROVIDE" MEANS TO "FURNISH AND INSTALL".	CU	COPPER	N15	O	0	POLE MOUNTED LIGHT POST TOP MOUNTING/BOLLARD			O P	NOT USED	- I 14-20R	- 3#12 #12G 3/4"C (100FT)	- HOT-HOT-NEU
	d. "EQUIVALENT" MEANS "MEETS THE SPECIFICATIONS OF THE REFERENCE PRODUCT OR ITEM IN ALL SIGNIFICANT ASPECTS." SIGNIFICANT ASPECTS SHALL BE DETERMINED BY THE ENGINEER.	D DAS	DEMOLISH DISTRIBUTED ANTENNA SYSTEM	OC OCP	ON CENTER OVERCURRENT PROTECTION	⊗ † <del>€</del> †	EXIT SIGN WITH DIRECTIONAL	₩	CEILING DUPLEX RECEPTACLE	Q	LOCKING, 30A, 125/250V, 1PH	L14-30R	3#10,#10G,3/4"C (120FT)	HOT-HOT-NEU
	e. "RE:DIVISION", AND SIMILAR EXPRESSIONS MEANS WORK TO BE PERFORMED UNDER THE CONTRACT DOCUMENTS, BUT NOT NECESSARILY UNDER THE DIVISION OR SECTION OF THE WORK ON WHICH THE NOTE	dB DEMAR	DECIBEL C DEMARCATION	OD OH	OUTSIDE DIAMETER OVERHEAD	Q	WALL MOUNTED EXIT SIGN ARROWS (CHEVRONS)	Фx	CEILING / FLOOR SPECIAL RECEPTACLE (FOR "X" SEE RECEPTACLE MODIFER TAGS TABLE)	S	LOCKING, 20A, 208Y/120V, 3PH	L21-20R	4#12,#12G,3/4"C (120FT)	HOT-HOT-HOT-N
	APPEARS. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO COORDINATE THE WORK OF THE CONTRACT BETWEEN THEIR SUPPLIERS, SUBCONTRACTORS, AND EMPLOYEES. IF CLARIFICATION IS REQUIRED, CONSULT ARCHITECT.	DISC			P		EMERGENCY LIGHTING UNIT	$\diamond$	CEILING JUNCTION BOX	V	LOCKING, 30A, 208Y/120V, 3PH LOCKING, 50A, 250V, 3PH	L21-30R HBL CS8369	4#10,#10G,3/4"C (130FT) 3#6,#10G,1"C (175FT)	НОТ-НОТ-НОТ-НОТ
	<ol> <li>"FIRESTOPPING" REQUIREMENT. ALL PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE SEALED WITH MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES WHEN SUBJECTED TO</li> </ol>	DP		P PA	POLE PUBLIC ADDRESS	PS	POWER SUPPLY			W P X Pl	IN & SLEEVE, 60A, 208Y/120V, 3PH N & SLEEVE, 100A, 208Y/120V, 3PH	HBL 560R9W HBL 5100R9W	4#4,#10G,1-1/4"C (200FT) 4#1,#8G,1-1/2"C (250FT)	HOT-HOT-HOT-NE HOT-HOT-HOT-NE
	THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC FOR FIRE STOPS ASTM-E-814. ALL PENETRATIONS SHALL MEET F AND T RATINGS AS REQUIRED BY THE BUILDING CODE.	DWG	DRAWING DIGITAL VIDEO RECORDER	PB PE	POSH BUTTON PHOTOELECTRIC	& ∧	OCCUPANCY SENSOR - CEILING MOUNTED DAYLIGHT SENSOR - CEILING MOUNTED	\$	SINGLE TOGGLE SWITCH	Y Z	NOT USED NOT USED	-		-
	<ol> <li>WHERE DISCONNECTS ARE INDICATED ON DRAWINGS CONTRACTOR SHALL PROVIDE FINAL CONNECTION FROM DISCONNECT TO EQUIPMENT BEING SERVED.</li> </ol>		E	PF PH	POWER FACTOR PHASE		OCCUPANCY SENSOR - 180°		PLUGMOLD	NOTE: DI IN	STANCE NOTED IS MAXIMUM RUN LE CREASE PER NEC, INCLUDING GROU	NGTH FOR WIRE SIZE	NS OR FOR DERATING FACTORS	S (AMB TEMP, EXTERIOR,
	<ol> <li>CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SUPPORTS AS REQUIRED FOR A COMPLETE OPERABLE ELECTRICAL INSTALLATION INCLUDING MISCELLANEOUS STEEL, UNI-STRUT, ALL-THREAD, AIRCRAFT CABLE, ETC.</li> </ol>	E/EX EA	EXISTING EACH	PR	PAIR	Å	DIMMER SWITCH / STATION		EMERGENCY POWER OFF		SECURI	Y & COMM	JNICATION SYMI	BOLS
D	11. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR ALL SINGLE PHASE CIRCUITS. A SHARED NEUTRAL CONDUCTOR IS NOT ACCEPTABLE ON SINGLE PHASE CIRCUITS.	EC EF	ELECTRICAL CONTRACTOR EXHAUST FAN	PT		ע <sup>os</sup> ₪ <sup>רע</sup>	DIMMER / OCCUPANCY SENSOR COMBINATION SWITCH		DUPLEX PUSH BUTTON		TELE/DATA WALL OUTLET MOUNTED	NED AT 18" AFF, U.N.C	). (# = PORT QUANTITY, NO / # =	1-PORT)
	12. EQUIPMENT INTERRUPTING RATINGS INDICATED ON THE DRAWINGS ARE BASED ON PRELIMINARY INFORMATION AND ARE SHOWN FOR BIDDING PURPOSES ONLY, VERIEV FOURMENT INTERRUPTING CAPACITY	EG EHC		PV PVC		₽ ₽ <sup>s</sup>	SCENE CONTROL STATION		TRIPLE PUSH BUTTON	$\bigtriangledown$	DATA OUTLET WALL MOUNTED	AT 18"AFF, U.N.O. (# =	PORT QUANTITY, NO / # = 1-POR	T)
	REQUIREMENTS PRIOR TO ORDERING ANY RELATED ELECTRICAL DISTRIBUTION EQUIPMENT.	ELEC ELEV			Q	۲۹ ۱۹ ۱۹	TOUCH PANEL CONTROL STATION	Ч С	WALL BUZZER		DATA OUTLET MOUNTED AT CE	LING		
	CONTRACT.	EMT	ELECTRIC METALLIC TUBING	QE QT	QUADRANT ELECTRICAL (ARENA SPECIFIC) QUADRANT TELECOM (ARENA SPECIFIC)	<b>\$</b> <sup>3</sup>	3-WAY SWITCH	DEVICE GEN	<b>IERAL NOTES:</b>	1. REFER	R TO DETAILS AND SPECIFICATIONS	FOR ADDITIONAL RAC	EWAY AND/OR DEVICE INFORMA	ATION.
	15. ALL MATERIALS IN CEILING PLENUMS NOT ENCLOSED IN METALLIC CONDUIT SHALL HAVE CLASS, FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS AS REQUIRED FOR USE IN OPEN PLENUMS	EOL	F/A END OF LINE RESISTOR EMERGENCY POWER OFF	R	R EXISTING TO RELOCATE	\$	4-WAY SWITCH SHADED SYMBOLS DENOTE EMERGENCY FIXTURES	FLOOR I	DEVICE PRODUCT INFORMATION.	2. J-HOO AT 48- ROOM	K PATHWAY: ROUTE AND TERMINAT INCHES ON CENTER FOR REMAINING , UNLESS NOTED OTHERWISE. PRO <sup>V</sup>	E CONDUIT WITHIN NE GCABLE RUN TO NEAF VIDE CONDUIT PATHW	AREST ACCESSIBLE CEILING SF REST CABLE TRAY (AS APPLICAE AY THROUGH WALLS AND ACCF	PACE. PROVIDE DEDICAT BLE) OR SECURITY ROOM ROSS NON-ACCESSIBLE (
	16. VOLTAGE DROP: THE ELECTRICAL CONTRACTOR SHALL ENSURE THAT VOLTAGE DROP FOR FEEDERS TO DISTRIBUTION EQUIPMENT DOES NOT EXCEED 2% AND VOLTAGE DROP IN BRANCH CIRCUITING DOES NOT	EQP ER	EQUIPMENT EXISTING TO BE REMOVED/RELOCATED	REC RGS	RECEPTACLE RIGID GALVANIZED STEEL		FIRE ALARM	TO CONI REQUIRI	FIRM ALL LOCATIONS THAT HAVE DATA OR DATA/AV EMENTS COMBINED WITH POWER IN FLOOR BOXES.	CEILIN 3. CONTI	IG AREAS TO ENSURE UNOBSTRUCT	CONTINUOUS CONDU	-OR ENTIRE CABLE RUN. IT FROM EACH DEVICE TO NEAF	REST CABLE TRAY (AS AF
	EXCEED 3% FOR OVERALL VOLTAGE DROP OF 5% (MAXIMUM). FEEDERS LISTED ON SCHEDULES AND THE ELECTRICAL ONE-LINE DIAGRAM ARE A BASE FEEDER/BRANCH CIRCUIT SIZE AND SHALL BE ADJUSTED AS NEEDED BASED ON ACTUAL LENGTH OF CONDUCTORS.	EV EWC	ELECTRIC VEHICLE ELECTRIC WATER COOLER	RM RPM	ROOM REVOLUTIONS PER MINUTE	0	SMOKE DETECTOR	3. REFER T DEDICAT MOUNTI	TO TECHNOLOGY (AND/OR AV) DRAWINGS FOR TED LOW VOLTAGE CONDUIT AND FLOOR BOX DEVICE NG PLATE REQUIREMENTS. LOW VOLTAGE CONDUIT	OR TE FOR S	LECOM ROOM / HORIZONTAL CROSS TRUCTURED CABLING SYSTEM.	-CONNECT LOCATION	, UNLESS NOTED OTHERWISE.	USE OF J-HOOKS IS NOT
	17. REFER TO GENERAL NOTES FOR NUMBER OF PANEL SECTIONS AND QUANTITY OF CIRCUIT BREAKERS PANEL SCHEDULES SUPERCEDE ALL NOTES.	EWH EXH	ELECTRIC WATER HEATER EXHAUST	SCP	SECURITY CONTROL PANEL	<b>(2)</b>	WALL SMOKE DETECTOR	REQUIRI	EMENTS ARE NOT DOCUMENTED ON POWER DRAWINGS.	4. ALL T∖	/S TO INCLUDE (1") EMT CONDUIT WI	TH PULL STRING TO A	CCESSIBLE BACK BOX AND CEIL	LING.
	18. REFER TO SPECIFICATIONS FOR ADDITIONAL PROJECT REQUIREMENTS.	F	FUSE	SEC SECT	SECONDARY/SECOND SECTION	00 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	SMOKE/CARBON MONOXIDE DETECTOR	HEIGHTS MOUNTI	S OF TVS. MOUNT BEHIND TV DISPLAY OR ON TV NG BRACKET/SUPPORT"	She	et Number	ELECTRICA	L SHEET LIST	
		F/A FACP	FIRE ALARM FIRE ALARM CONTROL PANEL	SHT SEC	SHEET SECONDARY CONNECTION CABINET	<b>()</b>	HEAT DETECTOR	$\mathcal{A}$					Cheer Name	
		FAPS FATC	FIRE ALARM POWER SUPPLY FIRE ALARM TERMINAL CABINET	SMPOE SP	SECONDARY MAIN POINT OF ENTRY SERVICE PROVIDER	Ö BR		Ŕ	MOTOR AND DISCONNECT	E-000		DNE-LINE		
С		FBO FC	FURNISHED BY OTHERS FOOTCANDLES	SPD SPDT	SURGE PROTECTIVE DEVICE SINGLE POLE, DOUBLE THROW	(2) BT	BEAM DETECTOR TRANSMITTER	ĮŽĮ		E-002 E-003	LIGHTING SCH	EDULES		
	TYPICAL DEVICE MOUNTING HEIGHTS	FDR FCU	FEEDER FAN COIL UNIT	ST STD	SHUNT TRIP STANDARD	EVAC FSR	VOICE EVAC PANEL ELEVATOR STATUS PANEL	$\overline{\mathcal{A}}$	VARIABLE FREQUENCY DRIVE/MOTOR CONTROLLER	E-004 E-101	ELECTRICAL S	CHEDULES	3	
		FLA FLEX	FULL LOAD AMPS FLEXIBLE	SW SWBD	SWITCH SWITCHBOARD	0	CEILING MOUNTED SPEAKER	β Γ	NON-FUSED DISCONNECT	E-102 E-401	ROOF ELECTF	CAL PLAN		
		FLR FPB	FLOOR FAN POWERED BOX	SWGR	SWITCHEAR T			ے ا	CIRCUIT BREAKER	E-800	ELECTRICAL D	ETAILS		
		FUT	FUTURE	T TBB	TWIST LOCK TELECOMMUNICATIONS BONDING BACKBONE		WALL MOUNTED SPEAKER/STROBE		BRANCH CIRCUIT OR POWER PANEL					
	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	GALV GB	GALVANIZED GROUNDING BUS	TBD TC	TO BE DETERMINED TIME CLOCK	S	WALL MOUNTED SILENTONE		ELECTRICAL EQUIPMENT FREESTANDING OR WALL MOUNT					
		GEN GFCI	GENERATOR GROUND FAULT CIRCUIT INTERRUPTER	TEL TELCO	TELEPHONE TELEPHONE COMPANY		FIREMAN'S PHONE JACK	$\mathbb{M}$	METER					
		GND	GROUND	TELCOM TEMP	TELECOMMUNICATIONS TEMPERATURE	(∞) ■	ROTATING BEACON		CURRENT TRANSFORMER					
	NOT TO SCALE         FINISHED FLOOR           1. MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE.	HC		TGB TO	TELECOMMUNICATIONS GROUND BUS THERMAL OVERLOAD	DH	MAGNETIC DOOR HOLD OPEN DEVICE							
	<ol> <li>CONTRACTOR SHALL ENSURE THAT ALL MOUNTING HEIGHTS COMPLY WITH CURRENT ADA AND A117.1 REQUIREMENTS.</li> </ol>	HH	HAND HOLE HAND-OFF-AUTO	TR TYP	TAMPER RESISTANT TYPICAL	۲× ۲×	TAMPER SWITCH	<b>№</b>  /T/	POWER TRANSFORMER					
	<ol> <li>WHERE EVER DEVICES ARE INDICATED TO BE ABOVE DOORS, DEVICE SHALL BE CENTERED BETWEEN TOP OF DOOR TRIM AND CEILING LINE.</li> </ol>	HP	HORSEPOWER HIGH POWER FACTOR	UC	U UNDER COUNTER	۲۔۔۔	FLOW SWITCH		FUSE & SWITCH					
В	<ol> <li>ALL ABOVE COUNTER (DESIGNATED BY "AC") SHALL BE MOUNTED 8" ABOVE COUNTER OR MAXIMUM HEIGHT OF 44" TO TOP OF DEVICE. VERIFY HEIGHTS WITH ARCHITECT.</li> </ol>	HTR	HEATER	UG UGP	UNDERGROUND UNDERGROUND PRIMARY	⊠ <sup>RTS</sup> <b> ¤</b> <sup>RTS</sup>	CEILING MOUNTED REMOTE INDICATOR LIGHT WALL MOUNTED REMOTE INDICATOR LIGHT	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	DRAWOUT CIRCUIT BREAKER					
	<ol> <li>FOR CEILINGS BELOW 7'-4", FIRE ALARM STROBE OR HORN/STROBES SHALL BE WALL MOUNTED 6" BELOW FINISHED CEILING.</li> </ol>	IC	INTERMEDIATE CROSS CONNECT	UGS UH	UNDERGROUND SECONDARY UNIT HEATER	Ť	WALL MOUNTED ADA STROBE	К	KIRK-KEY INTERLOCK					
	6. SWITCH TO BE MOUNTED ON LATCH SIDE OF THE DOOR WITHIN 12" OF THE DOOR.	IDF IMC	INSIDE DIAMETER INTERMEDIATE DISTRIBUTION FRAME INTERMEDIATE GRADE METALLIC CONDUIT	UL UNO	UNDERWRITER LABORATORIES UNLESS NOTED OTHERWISE	) IM	CEILING MOUNTED STROBE ADDRESSABLE INPUT MODULE							
	<ol> <li>DEVICES AT SAME HEIGHT LOCATED NEXT TO EACH OTHER TO BE ALIGNED VERTICALLY TO THE BOTTOM OF THE DEVICE.</li> </ol>		J	UPS USB	UNINTERRUPTIBLE POWER SUPPLY UNIVERSAL SERIAL BUS	FR	FIRE ALARM ADDRESSABLE RELAY							
		J-BOX	AUDIO CONNECTION BOX	V	V	а_н _=⊙● <del>  </del>	ALARM BELL FIRE SMOKE DAMPER	↓×	SHORT CIRCUIT FAULT CALCULATION TAG					
	CULS AND STANDARDS		ENG BROADCAST BOX	VA VAV	VOLT-AMPERE VARIABLE AIR VOLUME	Ĕ ₽	SMOKE CONTROL DAMPER		REFER TO TABLE ON ONE-LINE DIAGRAM					
	2020 NATIONAL ELECTRICAL CODE 2021 INTERNATIONAL BUILDING CODE 2021 INTERNATIONAL ENERGY CONSERVATION CODE			VFD VM	VARIABLE FREQUENCY DRIVE	CO FAAP	CARBON MONOXIDE DETECTOR FIRE ALARM ANNUNCIATOR PANEL	\$TO	THERMAL OVERLOAD					
	2021 INTERNATIONAL FIRE CODE 2009 ANSI A117.1, ACCESSIBILITY REQUIREMENTS ANSI/ASME A17.1, SAFETY CODE FOR ELEVATORS	KCMIL/M KVA	ICM THOUSAND OF CIRCULAR MILLS KILOVOLT AMPERE	W	WATT	FACP	FIRE ALARM CONTROL PANEL	\$ <sup>TO</sup>	MOTOR AND THERMAL OVERLOAD					
	NFPA 72 NATIONAL FIRE ALARM CODE	KW KWH	KILOWATT KILOWATT HOUR	W/ W/O	WITH WITHOUT	TWC	ASSISTANCE CALL BUTTON TWO-WAY COMMUNICATION / AREA OF RESCUE	•••••	COMPANY SWITCH OR CAM-LOK PANEL					
		ΙΔ		WH WHM	WATT HOUR WATT HOUR METER	[TWCP]	ASSISTANCE (BASE STATION)	./ .	AUTOMATIC TRANSFER SWITCH					
	CITY OF RANGELY REQUIREMENTS	LAN	LOCAL AREA NETWORK LIGHTING CONTROL PANEL	WLAN WP	WIRELESS-LOCAL AREA NETWORK WEATHERPROOF			_/_ 	GENERATOR DOCKING STATION					
A	NO ELECTRICAL MATERIALS, APPARATUS, DEVICES, APPLIANCES, FIXTURES OR EQUIPMENT SHALL BE SOLD OR INSTALLED IN THE CITY UNLESS THEY ARE IN CONFORMANCE WITH PROVISIONS OF THIS CODE, THE LAWS OF THE STATE OF COLORADO AND ANY APPLICABLE RULES AND REGULATIONS ISSUED UNDER THE AUTHORITY OF THE	LED LFC	LIGHT EMITTING DIODE LIQUID TIGHT FLEXIBLE CONDUIT	WPL WT	WEATHER PROOF LOCKABLE ENCLOSURE. WATERTIGHT			NAME (#)	ELECTRICAL PLANEL					
	STATE STATUTES. THE MAKER'S NAME, TRADEMARK, OR OTHER IDENTIFICATION SYMBOL SHALL BE PLACED ON ALL ELECTRICAL MATERIALS, APPARATUS, DEVICES, APPLIANCES, FIXTURES AND EQUIPMENT USED OR INSTALLED UNDER THE PROVISIONS OF THIS CODE. ALL ELECTRICAL MATERIAL AND EQUIPMENT SHALL BE LISTED AND	LT LTG	LOW TEMPERATURE RATED DEVICES OR SIMILAR LIGHTING	XFMR	TRANSFORMER				-(NUMBER OF SECTIONS) EQUIPMENT IDENTIFICATION TAG					
	LABELED FOR THE INTENDED USE AND SHALL BE INCLUDED IN A LIST PUBLISHED BY AN APPROVED AGENCY.	LV	LOW VOLTAGE	XP	EXPLOSION PROOF			<u> </u>	REFER TO ELECTRICAL EQUIPMENT SCHEDULE	<b>I</b>				
0:40 PM														

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3		

		0
MDB	BUS:	2500AMP
	MAINS:	2500 Amp Main Bkr
	VOLTAGE:	480 Delta
LOAD SUMMARY		
	TOTAL KVA	TOTAL AMPS
BRANCH CKTS ON MDB	153	184
M2A	71	85
M1A	94	113
L4A	41	50
KIT	49	59
H3A	124	149
H2A	109	131
H1A	202	243
ELSH	32	39
EED	401	482
ECD	556	669
CONNECTED TOTALS	1,832	2,204
	-	-
CALCULATED TOTALS	1,663	2,000

NO SCALE

TRANSF	ORMER T	ABLE - 48	30V PRIN	ARY - 208Y/120V SEC	ONDARY							
	FL	BKR		TRANSFORMER	FL	BKR						
KVA	AMPS	SIZE	FDR	GROUNDING	AMPS	SIZE	FDR					
				ELECTRODE								
3PH	480V	(1)	(2)	(WIRE) PIPE	208V	(1)	(2)					
15	18	30	F30	(#8 CU) 3/4"C	42	50	FN50A					
30	36	50	F50	(#6 CU) 3/4"C	83	100	FN100A					
45	54	70	F70	(#6 CU) 3/4"C	125	150	FN150					
75	90	125	F125	(#2 CU) 3/4"C	208	250	FN250A					
112.5	135	175	F175	(#1/0 CU) 1"C	312	400	FN400A					
150	180	225	F225	(#1/0 CU) 1"C	416	500	FN500A					
225	271	350	F350	(#2/0 CU) 1"C	626	800	FN800A					
300	361	450	F450	(#3/0 CU) 1"C	833	1000	FN1000A					
500	601	800	F800	(#250 KCMIL CU) 1"C	1388	1600	FN1600A					
1	1 USE DEVICE TYPES INDICATED ON SINGLE LINE DIAGRAM.											

			5								6	
EA						FEEDER TABLE - C	ONDUCTORS					GENERAL N
SC SC	CHEDULES (AMPS)					COPPER				COPPER	1	
		Bkr/OCPD	TAG	Sets	PIPE	FDR/PIPE [3W]	TAG	Sets	PIPE	FDR/PIPE [4 W]	'.	75 DEGREE RATE
		20	F1	1	3/4"	3#12.#12G	FA1	1	3/4"	4#12.#12G		
VALUES	SHOWN BELOW SERIES	30	F2	1	3/4"	3#10,#10G	FA2	1	3/4"	4#10.#10G	2.	FEEDER LENGTH
RATING	EQUIPMENT SHALL NOT BE	40	F3	1	3/4"	3#8,#10G	FA3	1	1"	4#8,#10G		INDICATED FOR C
	ED.	50	F4	1	1"	3#6,#10G	FA4	1	1"	4#6,#10G		PURPOSES ONLY
		50	-	-	-	-	FA4A	1	1-1/4"	4#6,#8G		SHALL NOT BASE
KE I	AVAILABLE	60	F5	1	1-1/4"	3#4,#8G	FA5	1	1-1/4"	4#4,#8G		
	51208	70	F5	1	1-1/4"	3#4,#8G	FA5	1	1-1/4"	4#4,#8G		THIS DRAWING.
	46541	80	F6	1	1-1/4"	3#3,#8G	FA6	1	1-1/4"	4#3,#8G		
	40341	90	F7	1	1-1/4"	3#2,#8G	FA7	1	1-1/2"	4#2,#8G	3.	ALL CONDUIT RUI
	48143	100	F8	1	1-1/2"	3#1,#8G	FA8	1	2"	4#1,#8G		RAN PERPENDICU
4	36575	100	-	-	-	-	FA8A	1	2"	4#1,#6G		PARALLEL TO CO
5	46976	110	F8A	1	1-1/2"	3#1,#6G	-	-	-	-		BEAMS. ALL EXPO
	10546	125	F9	1	1-1/2"	3#1/0,#6G	FA9	1	2"	4#1/0,#6G		
	19546	150	F9	1	1-1/2"	3#1/0,#6G	FA9	1	2"	4#1/0,#6G		
	10149	175	F10	1	2"	3#2/0,#6G	FA10	1	2"	4#2/0,#6G		INOTALLATION.
8	41963	200	F11	1	2"	3#3/0,#6G	FA11	1	2-1/2"	4#3/0,#6G	4.	PROVIDE FULL BU
	19545	225	F12	1	2-1/2"	3#4/0,#4G	FA12	1	2-1/2"	4#4/0,#4G		SPACES INDICATE
9	10040	250	F13	1	2-1/2"	3#250,#4G	FA13	1	3"	4#250,#4G		BOARDS AND DIS
		250	-	-	-	-	FA13A	1	3	4#250,#2G		BOARDS.
		300	F14	1	3"	3#350,#4G	FA14	1	3"	4#350,#4G		
		350	F15	1	3"	3#500,#3G	FA15	1	3-1/2"	4#500,#3G	5.	CONNECTALL IR
		400	F16	2	2"	3#3/0,#3G	FA16	2	2-1/2"	4#3/0,#3G		
-	TRANSFORMERS	400	-	-	-	-	FA16A	2	2-1/2"	4#3/0,#1/0G		
(	(150KVA OR LESS)	450	F17	2	2-1/2"	3#4/0,#2G	FA17	2	2-1/2"	4#4/0,#2G	6.	REFER TO FEEDE
BASED	D ON INFINITE IMPEDANCE	500	F18	2	2-1/2"	3#250,#2G	FA18	2	3"	4#250,#2G		FEEDER SIZE COF
ON TH	E PRIMARY. THE	500	-	-	-	-	FA18A	2	3"	4#250,#1/0G		TO OVERCURREN
AVAIL/	ABLE FAULT CURRENTS ON	600	F19	2	3"	3#350,#1G	FA19	2	3"	4#350,#1G		DEVICE (BREAKER
		700	F20	2	3"	3#500,#1/0G	FA20	2	3-1/2"	4#500,#1/0G		SHOWN ON ONE-L
30 KV	A (5.3%Z)= 1572A	750	F20	2	3"	3#500,#1/0G	-	-	-	-		
45KVA	A (4.9%Z)= 2551A	800	F21	3	3"	3#300,#1/0G	FA21	3	3"	4#300,#1/0G	1.	
75KVA	A (5.4%Z)= 3858A	800	-	-	-	-	FA21A	3	3"	4#300,#2/0G		
112.5K	(VA (4.9%Z)=6378A	1000	F22	3	3"	3#400,#2/0G	FA22	3	3-1/2"	4#400,#2/0G		TAULT.
150KV	(5.3%Z)= 7862A	1000	-	-	-	-	FA22A	3	3-1/2"	4#400,#3/0G	8.	THIS CONTRACTO
	)	1200	F23	4	3"	3#350,#3/0G	FA23	4	3"	4#350,#3/0G		TO "MEP" SERIES
		1200	F23C	3	3-1/2"	3#600,#3/0G	FA23C	3	4"	4#600,#3/0G		ALL MECHANICAL
		1600	F24	5	3"	3#400,#4/0G	FA24	5	3-1/2"	4#400,#4/0G		ELECTRICAL CON
		1600	-	-	-	-	FA24A	5	3-1/2"	4#400,#250G		
		1600	F24C	4	3-1/2"	3#600,#4/0G	FA24C	4	4"	4#600,#4/0G		
		2000	F25	6	3"	3#400,#250G	FA25	6	3-1/2"	4#400,#250G		
		2000	F25C	5	4"	3#600,#250G	FA25C	5	4"	4#600,#250G		
		2500	F26	7	3-1/2"	3#500,#350G	FA26	7	3-1/2"	4#500,#350G		
		2500	-	-	-	-	FA26A	7	4"	4#500,#500G		
				-				1	1			

![](_page_49_Picture_10.jpeg)

![](_page_50_Figure_0.jpeg)

3

1

		-
ECD	BUS:	800AMP
	MAINS:	M.L.O.
	VOLTAGE:	480Y/277
LOAD SUMMARY		
Γ	TOTAL KVA	TOTAL AMPS
BRANCH CKTS ON ECD	150	180
T-ESERV BUS	62	75
RAD	247	297
ECH2	40	48
ECH1	57	68
CONNECTED TOTALS	556	669
	-	-
CALCULATED TOTALS	543	653

		1				4						
TRANSF	TRANSFORMER TABLE - 480V PRIMARY - 208Y/120V SECONDARY											
	FL	BKR		TRANSFORMER	FL	BKR						
KVA	AMPS	SIZE	FDR	GROUNDING	AMPS	SIZE	FDR					
				ELECTRODE								
3PH	480V	(1)	(2)	(WIRE) PIPE	208V	(1)	(2)					
15	18	30	F30	(#8 CU) 3/4"C	42	50	FN50A					
30	36	50	F50	(#6 CU) 3/4"C	83	100	FN100A					
45	54	70	F70	(#6 CU) 3/4"C	125	150	FN150					
75	90	125	F125	(#2 CU) 3/4"C	208	250	FN250A					
112.5	135	175	F175	(#1/0 CU) 1"C	312	400	FN400A					
150	180	225	F225	(#1/0 CU) 1"C	416	500	FN500A					
225	271	350	F350	(#2/0 CU) 1"C	626	800	FN800A					
300	361	450	F450	(#3/0 CU) 1"C	833	1000	FN1000A					
500	601	800	F800	(#250 KCMIL CU) 1"C	1388	1600	FN1600A					
1	USE DEVI	CE TYPES I		ON SINGLE LINE DIAGRAM	И.							

4

2 REFERENCE FEEDER TABLE FOR FEEDER SIZE

![](_page_50_Figure_5.jpeg)

5

4

				5			I				6	
						FEEDER TABLE - CO	ONDUCTORS					GENERAL I
FAU						COPPER				COPPER		
501	TEDULES (AMPS)	Bkr/OCPD	TAG	Sets	PIPE	FDR/PIPE [3W]	TAG	Sets	PIPE	FDR/PIPE [4 W]	1.	ALL FEEDERS SH
ALL THE E	QUIPMENT MUST BE	20	F1	1	3/4"	3#12.#12G	FA1	1	3/4"	4#12.#12G		15 DEGREE RATE
FULLY RA	FED FOR SHORT CIRCUIT	30	F2	1	3/4"	3#10.#10G	FA2	1	3/4"	4#10.#10G	2	
VALUES SI	HOWN BELOW. SERIES	40	F3	1	3/4"	3#8.#10G	FA3	1	1"	4#8.#10G	Z.	
	QUIPMENT SHALL NOT BE	50	F4	1	1"	3#6.#10G	FA4	1	1"	4#6.#10G		PURPOSES ONLY
PERMITTE	<u>D.</u>	50	_	-	-	-	FA4A	1	1-1/4"	4#6.#8G		SHALL NOT BASE
KEY	AVAILABLE	60	F5	1	1-1/4"	3#4.#8G	FA5	1	1-1/4"	4#4.#8G		FEEDER LENGTH
	10544	70	F5	1	1-1/4"	3#4.#8G	FA5	1	1-1/4"	4#4.#8G		QUANTITIES INDI
$\langle 1 \rangle$	46541	80	F6	1	1-1/4"	3#3 #8G	FA6	1	1-1/4"	4#3 #8G		THIS DRAWING.
<b>2</b>	48143	90	F7	1	1-1/4"	3#2 #8G	FA7	1	1-1/2"	4#2 #8G		
$\rightarrow$	36575	100	F8	1	1-1/2"	3#1 #8G	FA8	1	2"	4#1 #8G	3.	
<u>```</u>	30373	100	-	· ·		-	FA8A	1	2"	4#1 #6G		
$\langle 4 \rangle$	16227	110	F8A	1	1_1/2"	3#1 #6G		-	-	-		BEAMS ALL EXPO
$\langle 5 \rangle$	8143	125	F9	1	1_1/2"	3#1/0 #6G	FΔ9	1	2"	4#1/0 #6G		RUNS SHALL BE (
6	5949	150	FQ	1	1_1/2"	3#1/0 #6G	FA9	1	2"	4#1/0 #6G		WITH ARCHITECT
	44040	175	F10	1	2"	3#2/0 #6G	FA10	1	2"	4#1/0,#00		INSTALLATION.
$\langle \prime \rangle$	44242	200	F11	1	2"	3#3/0 #6G	FA10	1	22	4#2/0,#00		
		200	E12	1	2 1/2"	3#4/0 #4G	EA12	1	2-1/2	4#3/0,#00	<b>—</b> 4.	PROVIDE FULL BU
		225	E12	1	2-1/2	3#4/0,#40	EA12	1	2=1/2	4#4/0,#4G		SPACES INDICATI
		250	гіз	1	2-1/2	3#230,#40	EA12A	1	2	4#250,#40		BOARDS AND DIS
11	SOKVA OD LESS)	200	-	-	-	-	FAI3A	1	ວ ວ"	4#250,#2G		BOARDS.
		300		1	ວ ວ"	3#350,#4G		1	১ 2 1/0"	4#350,#4G		
		350		1	ວ ວ"	3#300,#3G		1	3-1/2	4#300,#3G	5.	
	BLE FAULT CURRENTS ON	400	FIO	2	2	3#3/0,#3G		2	Z-1/Z	4#3/0,#3G		GROUND BUS RIS
THE SE	CONDARY OF A	400	-	-	-	-	FAIDA	2	Z-1/Z	4#3/0,#1/0G		
TRANS	FORMER IS AS FOLLOWS:	450		2	2-1/2	3#4/0,#2G		2	Z-1/Z	4#4/0,#2G	6.	REFER TO FEEDE
30 KVA	(5.3%Z)= 1572A	500	F18	2	Z-1/2	3#250,#2G	FA18	2	3	4#250,#2G		FEEDER SIZE CO
45KVA (	4.9%Z)= 2551A	500	-	-	-	-	FA18A	2	3	4#250,#1/0G		TO OVERCURREN
112 5KVA	5.4%Z)- 3030A /A (4.9%Z)=6378A	600	F19	2	3"	3#350,#1G	FA19	2	3"	4#350,#1G		DEVICE (BREAKE
150KVA	(5.3%Z)= 7862A	700	F20	2	3"	3#500,#1/0G	FA20	2	3-1/2"	4#500,#1/0G		SHOWN ON ONE-
		750	F20	2	3"	3#500,#1/0G	-	-	-	-		
	/	800	F21	3	3"	3#300,#1/0G	FA21	3	3"	4#300,#1/0G	/.	
		800	-	-	-	-	FA21A	3	3"	4#300,#2/0G		
		1000	F22	3	3"	3#400,#2/0G	FA22	3	3-1/2"	4#400,#2/0G		TAULT.
		1000	-	-	-	-	FA22A	3	3-1/2"	4#400,#3/0G		THIS CONTRACTO
		1200	F23	4	3"	3#350,#3/0G	FA23	4	3"	4#350,#3/0G		TO "MEP" SERIES
		1200	F23C	3	3-1/2"	3#600,#3/0G	FA23C	3	4"	4#600,#3/0G		ALL MECHANICAL
		1600	F24	5	3"	3#400,#4/0G	FA24	5	3-1/2"	4#400,#4/0G		ELECTRICAL CON
		1600	-	-	-	-	FA24A	5	3-1/2"	4#400,#250G		DISCONNECT REC
		1600	F24C	4	3-1/2"	3#600,#4/0G	FA24C	4	4"	4#600,#4/0G		
		2000	F25	6	3"	3#400,#250G	FA25	6	3-1/2"	4#400,#250G		
		2000	F25C	5	4"	3#600,#250G	FA25C	5	4"	4#600,#250G		
		2500	F26	7	3-1/2"	3#500,#350G	FA26	7	3-1/2"	4#500,#350G		
		2500	-	-	-	-	FA26A	7	4"	4#500,#500G		
		2500	F26C	6	4"	3#600,#350G	FA26C	6	4"	4#600,#350G		
		3000	F27	8	3-1/2"	3#500,#400G	FA27	8	4"	4#500,#400G		
		3500	F28	10	3-1/2"	3#500,#500G	FA28	10	4"	4#500,#500G		
		3500	F28C	9	4"	3#600,#500G	FA28C	9	4"	4#600,#500G		
		4000	F29	11	4"	3#500,#500G	FA29	11	4"	4#500,#500G		
		4000	F29C	10	4"	3#600,#500G	FA29C	10	4"	4#600,#500G		
			1									
		1		DNDUC	TORS AR	E WITH THHN/THWN V	VIRE WITH 60D	FG TFF	RMINATIO	NS		

UP TO #1AWG AND 75DEG FOR LARGER SIZES.

CONDUIT SIZES MAY BE ALTERED BY CONTRACTOR WHEN IN ACCORDANCE WITH NEC

> ALL ALUMINUM FEEDERS SHALL INCLUDE COPPER EQUIPMENT GROUND CONDUCTORS

> > ALL EQUIPMENT IS EXISTING AND SHOWN FOR REFERENCE ONLY UNLESS NOTED OTHERWISE

![](_page_50_Picture_12.jpeg)

Туре	Lamp	Description	Finish	Voltage	Mounting	Manufacturer	Catalog Number	Alternate 1	Alternate 2	Control	Location	Comments
L1	24W, 3000 LUMENS, 3000K, 80+	RECESSED DIRECT/INDIRECT 2X2 LED, DIFFUSE ACRYLIC LENS	WHITE, VERIFY WITH ARCHITECT	120-277	RECESSSED	DAY-BRITE	2FG-30L-830-2-DS-			0-10V DIMMING	CLEAN WORK/STORAGE	
	CRI, 85000 HOURS L70						UNV-DIM					
L2	32W, 3800 LUMENS, 3000K, 80+	RECESSED DIRECT/INDIRECT 2X4 LED, DIFFUSE ACRYLIC LENS	WHITE, VERIFY WITH ARCHITECT	120-277	RECESSED	DAY-BRITE	2FG-G-38L-830-4-DS-			0-10V DIMMING		
	CRI, 70000 HOURS L70						UNV-DIM					
L3A	50W, 6250 LUMENS, 4000K, 90+	RECESSED 2X4 LED SURGICAL TROFFER, .125 PRISMATIC ACRYLIC LENS, INTEGRAL BATTERY BACKUP, COLD	WHITE, VERIFY WITH ARCHITECT	120-277	RECESSED	DAY-BRITE	SSTR24-U-62L-940-			0-10V DIMMING	OPERATING ROOM	
	CRI	ROLLED STEEL HOUSING					HST-DST-12F-UNV-					
							DIM1-EMLED					
L3B	50W, 6250 LUMENS, 4000K, 90+	SAME AS L3A EXCEPT 2X2	WHITE, VERIFY WITH ARCHITECT	120-277	RECESSED	DAY-BRITE	SSTR24-U-62L-940-			0-10V DIMMING	OPERATING ROOM	
	CRI						HST-DST-12F-UNV-					
							DIM1-EMLED					
L4	23W, 1500 LUMENS, 3000K, 80+	RECESSED LED DOWNLIGHT, 4" ROUND APERTURE, WIDE DISTRIBUTION, SPECULAR REFLECTOR	WHITE, VERIFY WITH ARCHITECT	120-277	RECESSED	LIGHTOLIER	4R-N/C4L-15-8-30-W-			0-10V DIMMING	RESTROOMS	
	CRI						Z10-U/C4-R-DL-XX					
L5	60W, 2900 LUMENS, 93 CRI,	LED WALL SCONCE, 22.8" WIDTH, 4.8" HEIGHT, ETCHED WHITE GLASS, STEEL HOUSING	VERIFY WITH ARCHITECT	120	SURFACE	HINKLEY LIGHTING	AIDEN 53062 SERIES			CL TYPE DIMMER		
	3000K, 30000 HOURS L70											

EMERGENCY												
Туре	Lamp	Description	Finish	Voltage	Mounting	Manufacturer	Catalog Number	Alternate 1	Alternate 2	Control	Location	Comments
X1	5W LED GREEN	EDGE LIT EXIT SIGN, PROVIDE WHITE OR MIRROR BACKING BETWEEN PANELS, GREEN LETTERING, DIE CAST	VERIFY WITH ARCHITECT	277	UNIVERSAL	LITHONIA	LRP SERIES					VERIFY NUMBER OF FACES WITH PLANS.
		ALUMINUM HOUSING										VERIFY NUMBER OF CHEVRONS WITH PLANS

	-	-
	E	-

F

ZONE TAG	ZONE DESCRIPTION						LOAD (VA)	NOTES	CIRCUIT
		OS	DIM	LS	DL	TC			
а	PUBLIC TLT 1603 - TYPE I 4A 1 5	×					83		EXISTING
b	OFFICE 1605 - TYPE L1	X	x	Х			48		EXISTING
C	ED CLEAN UTILITY 1607 - TYPE L2	X		X			32		EXISTING
d	OR 1641 - TYPE L3A - EMERGENCY			X			550	EMERGENCY.	EXISTING
е	OR 1641 - TYPE L3B - EMERGENCY			Х			100	EMERGENCY.	EXISTING
f	OR 1641 - SURGICAL LIGHT - EMERGENCY			Х			500	EMERGENCY.	EXISTING
g	EQUIPMENT STORAGE 1640 - TYPE L2	X		Х			32		EXISTING
0	SCRUB C-1600E - TYPE L2	X					64		EXISTING
h*	SCRUB C-1600E - TYPE L2 - EMERGENCY	X					32	EMERGENCY ZONE TO BE CONTROLLED WITH PARENT ZONE "h" USING UL924-DIM DEVICE.	EXISTING
i	CLEAN SUPPLY 1636A/CLEAN WORK 1636B - TYPE L2	Х		Х			168		EXISTING
j	SOILED WORK 1635 - TYPE L2	X		Х			64		EXISTING
k	CORRIDOR C-1600F - TYPE L2	Х					32		EXISTING
k*	CORRIDOR C-1600F - TYPE L2 - EMERGENCY	Х					64	EMERGENCY ZONE TO BE CONTROLLED WITH PARENT ZONE "k" USING UL924-DIM DEVICE.	EXISTING
I	CORRIDOR C-1600G - TYPE L2	Х					32		EXISTING
*	CORRIDOR C-1600G - TYPE L2 - EMERGENCY	Х					32	EMERGENCY ZONE TO BE CONTROLLED WITH PARENT ZONE "I" USING UL924-DIM DEVICE.	EXISTING
m	HSKG 1620 - TYPE L1	X		Х			24		EXISTING
GENERAL NOTES:	1. LOW VOLTAGE OVERRIDE SWITCHES SHALL BE PROVIDED FOR EACH SPACE AS 2. COORDINATE EXACT TIMECLOCK SCHEDULE WITH OWNER.	NDICATED ON S	CHEDULES.						
	<ol> <li>COORDINATE LIGHTING SCENES WITH OWNER.</li> <li>CORRIDORS &amp; RESTROOMS WITH OCCUPANCY CONTROL ARE TO BE OF AUTOMA BE OF VACANCY FUNCTION (MANUAL ON, AUTOMATIC OFF) UNLESS NOTED OTHER 5. PROVIDE UL924 DEVICE FOR EACH CONTROL ZONE CONTAINING EMERGENCY FIX</li> </ol>	TIC ON, AUTOM/ VISE. (TURES. ZONES	ATIC OFF FUN	ICTIONALITY	. ALL OTHEF UL924-DIM [	R ZONES WIT	HOCCUPANCY C	CONTROL ARE TO T REQUIRE UL924 DEVICE.	
_EGEND:	OS = OCCUPANCY SENSOR/VACANCY SENSOR DIM = DIMMING LS = LOCAL CONTROL SWITCH DL = DAYLIGHTING TC = AUTOMATIC TIME CLOCK WITH LOW VOLTAGE OVERRIDE SWITCH								

D

С

Α

![](_page_51_Picture_7.jpeg)

	RDH - SURGERY DEPT		Μ	-E Engir	neers	Inc.				PANEL ·	EC
	480Y/277		BUS:	225	Amps		Copper			SECTION:	1 0
	3PHASE,4WIRE+GND		MAINS:		M.L.O.		- 11			LOCATION:	ELECTRI
	50K AIC									200711011	EXISTIN
NOTES:	1. EXISTING LOAD ON EXISTING BREAKER				OPTIO	NS:				DATE:	11/3
	2. NEW LOAD ON EXISTING BREAKER									FED FROM :	EC
	3. NEW LOAD ON NEW BREAKER									MOUNTING :	SUR
										ISSUE:	
N ID	DESCRIPTION	V-A	Р	BKR	СКТ	PH	CKT	BKR	Р	V-A	DESCR
1 L	ED NURSE STATION LTG	386	1	20	1	А	2	20	1	100	HELI-PAD PA
1 L	ED CORRIDOR LTG	1050	1	20	3	В	4	20	1	444	FAMILY MED N
1 L	ED PATIENT TREATMENT	2282	1	20	5	С	6	20	1		SPA
1 M	CRAC-B1	500	3	20	7	Α	8	20	3	3241	CU
1 M		500	<		9	В	10		>	3241	
1 M		500	<		11	С	12		>	3241	
1 M	CRAC-B2	500	3	20	13	Α	14	20	3	3241	CU
1 M		500	<		15	В	16		>	3241	
1 M		500	<		17	С	18		>	3241	
3 S	OR1A	1440	2	30	19	A	20	20	3	500	KITCHEN I
3 S	CONNECTED LOAD	1440	<		21	В	22		>	500	
3 S	OR1B	1986	2	30	23	С	24		>	500	
3 S	CONNECTED LOAD	1986	<		25	A	26	20	1		SPA
P	SPARE		1	20	27	В	28	20	1		SPA
P	SPARE		1	20	29	С	30	20	1		SPA
P	SPARE		1	20	31	A	32	20	1		SPA
P	SPARE		1	20	33	В	34	20	1		SPA
P	SPARE		1	20	35	С	36	20	1		SPA
P	SPARE		1	20	37	A	38	70	3	11950	EC
P	SPARE		1	20	39	В	40		>	9942	CONNECT
Р	SPARE		1	20	41	С	42		>	10660	
	Book1.xls										
ER PHAS	= VA WITH DOWNSTREAM LOADS										
CALC'D	22074 - 21248 - 22477	65.798			3	4.502		125%		5.628	ANII 3 (2400
	23844 - 22844 - 20924	67,612		R - RECEPT		20,740		120%		10,000	1
DOWNST	REAM LOADS			R - RECEPT				50%	,	5,370	6
ECL1 ^ OF	21A ^ OR1B			M - MOTOR		29,818		100%		29,818	3
				LRGST MTR		9,723		25%	,	2,431	3
				X - MISC		12,552		100%		12,552	1
				K - KITCHEN	l			100%			
	ADDITIONAL NOTES			E - ELEC HE	AT			100%			
				TOTAL		67,612				65,798	7
				S - SUBFEED	TO A PANE	EL P-SI	PARE BKR	C - SPACE			

E

D

С

		RANGELY DISTRICT HOSPITAL		Μ	-E Engir	neers	PANEL:					
		208Y/120		BUS:	250	Amps		Copper			SECTION:	1 OF
		3PHASE,4WIRE+GND	N	AINS:	150		AIN BK	R			LOCATION:	
NOT	ES:	1. EXISTING LOAD ON EXISTING BREAKER	•			OPTION	NS:				DATE:	11/30/2
		2. NEW LOAD ON EXISTING BREAKER									FED FROM :	EMH
		3. NEW LOAD ON NEW BREAKER									MOUNTING :	SURFAC
Ν	ID	DESCRIPTION	V-A	Р	BKR	СКТ	PH	CKT	BKR	Р	V-A	DESCRIPT
1	R	NURSE STATION 1121 REFRIG	1000	1	20	1	А	2	20	1	500	CORRIDOR C-1100E
1	Р	SPARE		1	20	3	В	4	20	1	500	CORRIDOR C-1200E
1	L	MED GAS ROOMS	400	1	20	5	С	6	20	1	500	FUEL TANK SC
1	Х	OXYGEN FARM CONTROL	1000	1	20	7	А	8	20	1	1000	SITE FUEL OI
1	М	UHH-B1	240	1	20	9	В	10	20	1	1000	SITE FUEL OI
1	М	EF-B6. B7. B10	1314	1	20	11	С	12	20	1	600	MAP-2
1	М	EF-B8	528	1	20	13	А	14	20	1	600	AAP-7
1	М	EF-C4	696	1	20	15	В	16	20	1	500	MECH ROOM 1735
1	R	ROOF RECEPT	1080	1	20	17	С	18	20	1	500	MECH ROOM 1735
1	Х	GWH-1	600	1	20	19	А	20	20	1		SPARE
1	Х	GWH-2	600	1	20	21	В	22	20	1	800	MGM-1
1	Х	GWH-3	600	1	20	23	С	24	20	1	180	RTU-8 RC
1	М	SPRINKLER SYS DRY COMPRESSR	1176	1	20	25	А	26	20	1		SPARE
1	Х	HWCP-1. 2	400	1	20	27	В	28	20	1		SPARE
	Р	SPARE		1	20	29	С	30	20	1		SPARE
	Р	SPARE		1	20	31	A	32	20	1		SPARE
	Р	SPARE		1	20	33	В	34	20	1		SPARE
	Р	SPARE		1	20	35	С	36	20	1		SPARE
1	E	FUEL TANK HEATER	1000	3	20	37	А	38	20	1		SPARE
1	E		1000	<		39	В	40	20	1		SPARE
1	E		1000	<		41	С	42	20	1		SPARE
		Book1.xls	•									
PER	PHASE	VA WITH DOWNSTREAM LOADS			LOAD SUMM	IARY WITH	DOWNS	TREAM LC	ADS INCLUD	ED		
		A - B - C	TOTAL VA		CATEGORY		CONNEC	TED	FACTOR		CALC'D V-A	AMPS @ 208Y/12
CAL		7514 - 5846 - 6384	19,743			<i>.</i>	400		125%		500	1
	VNSTR	FAM LOADS	19,314		R - RECEPT		2,200		50%		2,200	0
200					M - MOTOR		5 954		100%		5 954	17
					LRGST MTR		1 314		25%		329	1
					X - MISC		7 700		100%		7 700	
					K - KITCHEN	1	1,100		100%		1,100	
		ADDITIONAL NOTES				<u>лт</u>	3 000		100%		3 000	8
						2 X I	0,000		100 /0		0,000	0
					τοται		10 314				10 7/3	55
											13,743	
					9 - SUBFEED	TO A PANE	L P-SP	AKE BKR	U - SPAUE			

	RANGELY DISTRICT HOSPITAL		M	-E Engir	neers	PANEL: EN					
	480Y/277		BUS:	400	Amps		Copper			SECTION:	1 OF
	3Phase,4Wire + Gnd	1	MAINS:		М.L.О.					LOCATION.	
ES:	1. EXISTING LOAD ON EXISTING BREAKER				OPTION	IS:				DATE	11/30/
	2. NEW LOAD ON EXISTING BREAKER									FED FROM :	EED
	3 NEW LOAD ON NEW BREAKER									MOUNTING :	Surfac
ID	DESCRIPTION	V-A	Р	BKR	СКТ	PH	СКТ	BKR	Р	V-A	DESCRIP
L	UTILITY PLANT AREA LTG	2368	1	20	1	А	2	20	3	1385	B-1
	UTILITY SPACES LTG	832	1	20	3	В	4		>	1385	
	DENTIST AREA ELEC/TELE LTG	320	1	20	5	С	6		>	1385	
м	EF-B1	942	3	20	7	А	8	20	3	1385	B-2
M		942	<		9	В	10		>	1385	
м		942	<		11	С	12		>	1385	
F	GENERATOR JACKET HEATER	3210	2	20	13	A	14	20	3	1385	B-3
E		3210	<	-	15	В	16	-	>	1385	
м	MA-1	2576	3	20	17	С	18		>	1385	
M		2576	<		19	A	20	30	3	5817	HWP-
M		2576	<		21	В	22		>	5817	
M	VP-1	8725	3	50	23	C	24		>	5817	
м		8725	<		25	A	26	30	3	5817	HWP-
M		8725	<		27	В	28		>	5817	
X	BTU-8	6648	3	40	29	C	30		>	5817	
X		6648	<	-	31	A	32	30	3	5817	HWP
X		6648	<		33	В	34		>	5817	
P	SPARE		1	20	35	C	36		>	5817	
S	HTP1	850	3	100	37	A	38	70	3	7404	EML
s	CONNECTED LOAD	350	<		39	В	40		>	5736	CONNECTE
s			<		41	С	42		>	6174	
-	Book1.xls					-					
PHASE	VA WITH DOWNSTREAM LOADS			LOAD SUMM	IARY WITH	DOWNS	TREAM LC	ADS INCLUD	ED		
	A - B - C	TOTAL VA		CATEGORY		CONNEC	TED	FACTOR		CALC'D V-A	AMPS @ 480Y/2
C'D	57102 - 53014 - 49352	159,468		L - LIGHTING	3	3,920		125%		4,900	6
CTD	54329 - 50625 - 46991	151,945		R - RECEPT		2,260		100%		2,260	3
VNSTR	EAM LOADS			R - RECEPT				50%			
IL ^ HTP	1			M - MOTOR		107,500	)	100%		107,500	129
				LRGST MTR		26,175		25%		6,544	8
				X - MISC		27,644		100%		27,644	33
				K - KITCHEN				100%			
	ADDITIONAL NOTES			E - ELEC HE	AT	10,620		100%		10,620	13
				TOTAL		151,944	ļ			159,468	192
				S - SUBFEED	TO A PANE	EL P-S	PARE BKR	C - SPACE			

В

		RDH - SURGERY DEPT		M	-E Engir	neers	Inc.				PANEL:	OR1A		
		208/120		BUS:		Amps		Copper			SECTION:	1 OF 1		
		1PHASE,3WIRE+GND		MAINS:		FUSE	D MAIN				LOCATION:	OR 1641		
												NEW PANEL		
NO	ES:	10 KW ISOLATION PANEL	•			OPTION	NS:				DATE:	11/30/22		
											FED FROM :	ECH1		
											MOUNTING :	RECESSED		
											ISSUE:			
Ν	ID	DESCRIPTION	V-A	Р	BKR	СКТ	PH	CKT	BKR	Р	V-A	DESCRIPTION	ID	Ν
	Х	BOOM CIRCUIT	180	2	20	1	Α	2	20	2	180	BOOM ACTIVE ASSIST	Х	
	Х		180	<		3	В	4		>	180		Х	
	Х	BOOM CIRCUIT	180	2	20	5	А	6	20	2	180	BOOM SURGICAL LIGHT	Х	
	Х		180	<		7	В	8		>	180		Х	
	Х	BOOM CIRCUIT	180	2	20	9	А	10	20	2	180	BOOM MONITOR	Х	
	Х		180	<		11	В	12		>	180		Х	
	Х	BOOM CIRCUIT	180	2	20	13	А	14	20	2	180	BOOM MONITOR	Х	
	Х		180	<		15	В	16		>	180		Х	
		Book1.xls												
PER	PHASE	VA WITH DOWNSTREAM LOADS	1		LOAD SUMM	IARY WITH	DOWNS	TREAM LC		ED				
		A - B 1090 1440	TOTAL VA			、	CONNEC	TED	FACTOR	2	CALC'D V-A	AMPS @ 208/120 VOLTS		
		1440 - 1440	2,520			2			125%	)				
DO	VNSTR	EAM LOADS	1,440		R - RECEPT				50%	,				
					M - MOTOR				100%	,				
					I RGST MTR				25%					
					X - MISC		2.880		100%	,	2.880	14		
					K - KITCHEN		,		100%	,	,			
	ADDITIONAL NOTES				E - ELECHE	AT			100%					
								100%	, 					
				TOTAL 2,880						2,880	14			
				S - SUBFEED TO A PANEL P - SPARE BKR C - SPACE										

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6.EO. 42 DA4

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DIL PUMP	М	1
DIL PUMP	М	1
-2	Х	1
-7	Х	1
35 CONTROLS	Х	1
35 CONTROLS	Х	1
RE	R	
I-1	Х	2
RCPT	R	2
RE	Р	
120 VOLTS		
120 10210		

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		RDH - SURGERY DEPT	M·	-E Engir	eers	Inc.			PANEL: ECL1					
		208Y/120		BUS:	250	Amps		Copper			SECTION:	1 OF 1		
		3PHASE.4WIRE+GND	м		150	AMP	/AIN BK	R				ELECTRICAL 1656		
		50K AIC		AINO.						-	LOCATION.	EXISTING PANEL		
NO	ES:	1. EXISTING LOAD ON EXISTING BREAKER				OPTIO	NS:				DATE	11/30/22		
		2. NEW LOAD ON EXISTING BREAKER									FED FROM :	ECH1		
		3. NEW LOAD ON NEW BREAKER									MOUNTING :	SURFACE		
		4. EXISTING LOAD MADE SPARE									ISSUE:			
N	ID	DESCRIPTION	V-A	Р	BKR	СКТ	PH	СКТ	BKR	Р	V-A	DESCRIPTION	ID	N
1	L	FAA OBSTRUCTION LTG	240	1	20	1	А	2	20	1	360	MINOR PROCEDURE 1641	R	1
1	R	ENDO 1643	720	1	20	3	В	4	20	1	120	SCRUB C-1600E CAPRE-046	R	2
1	R	ENDO 1643 BOOM	360	1	20	5	С	6	20	1	500	SCRUB C-1600E AAP-1	X	2
2	М	OR 1641 MOTORIZED DOOR	1500	1	20	7	Α	8	20	1	360	PROCEDURE PREP 1650B EQUIP	R	1
1	R	PROCEDURE PREP 1650C EQUIP	360	1	20	9	В	10	20	1	360	PROCEDURE PREP 1650A EQUIP	R	1
1	R	PROCEDURE PREP 1650C EQUIP	360	1	20	11	С	12	20	1	360	PROCEDURE PREP 1650A EQUIP	R	1
1	R	PROCEDURE PREP 1650B EQUIP	360	1	20	13	Α	14	20	1	900	CORRIDOR C-1600F OXY CONT PNL	R	1
1	R	TREATMENT-GENERAL 1609 EQUIP	360	1	20	15	В	16	20	1	720	TRIAGE-1 1623-1	R	1
1	R	TREATMENT-GENERAL 1609 EQUIP	360	1	20	17	С	18	20	1	360	BONE DENSITY 1649	R	1
1	R	TREATMENT-GYN 1610 EQUIP	360	1	20	19	Α	20	20	1	360	TREATMENT-CAST 1611 EQUIP	R	1
1	R	TREATMENT-GYN 1610 EQUIP	360	1	20	21	В	22	20	1	360	TREATMENT-CAST 1611 EQUIP	R	1
1	R	CORRIDOR C-1600B OXY CONT	360	1	20	23	С	24	20	1	360	TREATMENT-GENERAL 1612 EQUIP	R	1
1	R	CORRIDOR C-1300G MECH CONT	360	1	20	25	A	26	20	1	360	TREATMENT-GENERAL 1612 EQUIP	R	1
1	R	CORRIDOR C-1600H MECH CONT	360	1	20	27	В	28	20	1	360	CORRIDOR C-1600A MECH CONT	R	1
1	R	LAB STORAGE 1323 FREEZER	700	1	20	29	С	30	20	1	500	ED ENTRY/VESTIBULE V-4 FACP	R	1
1	R	LAB STORAGE 1323 REFRIG	700	1	20	31	А	32	20	1	720	STRESS TESTING 1219	R	1
1	R	BLOOD BANK 1324 REFRIG	700	1	20	33	В	34	20	1	700	STRESS TESTING 1219 TREADMILL	R	1
1	R	CORRIDOR-1 C-1300D-1 MECH CONT	500	1	20	35	С	36	20	1	700	STRESS TESTING 1219 BYCICLE	R	1
1	R	VESTIBULE V-6 MECH CONT	500	1	20	37	Α	38	20	1	500	CORRIDOR C-1200C MECH CONT	R	1
1	М	DOOR AUTO OPERATOR	500	1	20	39	В	40	20	1	360	CT SCAN 1664 INJECTOR HEAD	R	1
2	М	SCRUB C-1600E MOTORIZED DOOR	1500	1	20	41	С	42	20	1	1500	CORRIDOR AUTODOORS	X	1
1	М	EF-B4, B5	650	1	20	43	Α	44	20	1	1500	CORRIDOR AUTODOORS	X	2
1	М	EF-B2, B3	1122	1	20	45	В	46	20	1	500	RETAIL PHARMACY 1132 REF/FREEZ	R	1
1	М	H-1	600	1	20	47	С	48	20	1	500	RETAIL PHARMACY 1132 PYXIS	R	1
1	Х	RTU-1 CONTROL + REC	600	1	20	49	Α	50	20	1	500	RETAIL PHARMACY UC REFRIG	R	1
1	R	ROOF RECEPT	900	1	20	51	В	52	20	1	120	STAFF TLT. 1650G CAPRE-046	R	2
1	Х	RTU-2 CONTROL + REC	600	1	20	53	С	54	20	1	360	OR 1641 RCPT	R	2
1	Х	AAP-6	400	1	20	55	Α	56	20	1	360	OR 1641 RCPT	R	2
1	Х	IT RM PRE-ACTION CONTROLLER	600	1	20	57	В	58	20	1	360	OR 1641 RCPT	R	2
	Р	SPARE		1	20	59	С	60	20	1	180	OR 1641 RCPT	R	2
	Р	SPARE		1	20	61	Α	62	20	1	360	OR 1641 RCPT	R	2
	Р	SPARE		1	20	63	В	64	20	1		SPARE	Ρ	
	P	SPARE		1	20	65	С	66	20	1		SPARE	P	
	P	SPARE		1	20	67	A	68	20	1		SPARE	P	
	P	SPARE		1	20	69	В	70	20	1		SPARE	P	
	P	SPARE		1	20	71	С	72	20	1		SPARE	P	
	P	SPARE		1	20	73	A	74	20	1	<u> </u>		P	+
$\vdash$	P	SPARE		1	20	75	В	76	20	1		SPARE	P	+
$\vdash$	P	SPARE		1	20	77	С	78	20	1		SPARE	P.	+
$\vdash$	P	SPARE		1	20	79	A	80	20	1		SPARE	P	+
	P	SPARE		1	20	81	B	82	20	1		SPARE	P P	
	P			1	20	83	C	84	20	1		SPARF	P	
$\vdash$	· ·	Book1.xls		<u> </u>						<u> </u>				
PER	PHASE	VA WITH DOWNSTREAM LOADS			LOAD SUMM	ARY WITH	DOWNS	TREAM LC	ADS INCLUD	ED				
		A - B - C	TOTAL VA		CATEGORY		CONNEC	TED	FACTOR		CALC'D V-A	AMPS @ 208Y/120 VOLTS		
CAL	C'D	10345 - 8277 - 8995	27,617		L - LIGHTING	i	240		125%		300	1		
CNN	ICTD 11950 - 9942 - 10660 32,552				R - RECEPT		20,740		100%		10,000	28	_	
100/	WNSTREAM LOADS				K - RECEPT		5 970		50%		5,370	15	-	
1							5,872		100%		075	10	-	
					LRGSTMTR		1,500		25%		3/5	1	-	
1					X - MISC		5,700		100%		5,700	16	-	
					K - KITCHEN				100%				-	
┣—		ADDITIONAL NUTES			E - ELEC HE	41			100%		<b>├</b> ─── <b>├</b>		-	
1											<b>├</b> ─── <b>├</b>		-	
										┝────┤		-		
				TOTAL						77	-			
1				FOTAL         32,552           0         01/05/05/00 a 201/05					<b>I</b>	27,617 77				
				S - SUBFEED TO A PANEL P - SPARE BKR C - SPACE										

3

4

		RDH - SURGERY DEPT		M	-E Engin	eers	lnc.				PANEL ·	L3A				
		208Y/120		BUS:	250	Amps		Copper			SECTION	1 OF 2				
		3PHASE,4WIRE+GND	N	AINS:	250	AMP N	IAIN BKI	R			LOCATION:	ELECTRICAL 1656				
		10K AIC									200/11011	EXISTING PANEL				
OTE	S:	1. EXISTING LOAD ON EXISTING BREAKER				OPTION	IS:				DATE:	11/29/22				
		2. NEW LOAD ON EXISTING BREAKER									FED FROM :	H2A				
		3. NEW LOAD ON NEW BREAKER									MOUNTING :	SURFACE				
		4. EXISTING LOAD MADE SPARE				Feed Th	ru Luas				ISSUE:					
1	ID	DESCRIPTION	V-A	Р	BKR	СКТ	PH	СКТ	BKR	Р	V-A	DESCRIPTION	ID	Ν		
	R	CRAWL SPACE RECEPTACLES	900	1	20	1	А	2	20	1	1140	STESE-002 CONTROLLER	R	2		
	R	CRAWL SPACE RECEPTACLES	720	1	20	3	В	4	20	1	1800	INLST-010	R	2		
	R	CRAWL SPACE RECEPTACLES	720	1	20	5	С	6	20	1	900	REFDC-027/TSKMM-006	R	2		
2	R	ED CLEAN UTILITY 1607 RCPT	360	1	20	7	А	8	20	1	516	CAPMH-007/ULTMP-007	R	2		
	R	VENDING 605	1000	1	20	9	В	10	20	1	900	ED WAITING 1606 TV	R	1		
2	R	TINAS-025	1800	1	20	11	С	12	20	1	720	ED WAITING 1606	R	2		
	R	ENDO 1643	900	1	20	13	А	14	20	1	500	PROCEDURE PREP 1650C EQUIP	R	1		
	R	ENDO 1643	900	1	20	15	В	16	20	1	500	PROCEDURE PREP 1650C EQUIP	R	1		
2	R	MINOR PROCEDURE 1641	360	1	20	17	С	18	20	1	500	PROCEDURE PREP 1650B EQUIP	R	1		
	R	CORRIDOR C-1300B & PROCED	1080	1	20	19	А	20	20	1	500	PROCEDURE PREP 1650A EQUIP	R	1		
	R	PROC SUPERV OFFICE 1655 & 1654	1080	1	20	21	В	22	20	1	500	PROCEDURE PREP 1650A EQUIP	R	1		
	R	IMAGING WAITING 1660	1080	1	20	23	С	24	20	1	500	PROCEDURE PREP 1650B EQUIP	R	1		
	R	PROCED NURSE WORK 1650	900	1	20	25	А	26	20	1	720	SCOPE CLEANING 1644	R	1		
	R	PROCED NURSE WORK 1650 UC REF	500	1	20	27	В	28	30	1	1000	SCOPE CLEANING 1644 L15-30	R	1		
	R	PROCED NURSE WORK 1650	1080	1	20	29	С	30	20	1	144	SNKTS-002	R	2		
	R	MEN'S DRESSING 1633B	1080	1	20	31	A	32	20	1	900	ED FOPT STORAGE 1637	R	1		
	R	IMAGING DIRECTOR OFFICE 1663	1080	1	20	33	B	34	20	1	900	TRIAGE-1 1623-1	R	1		
,	R	SI RHT-004	600	1	20	35	C C	36	20	1	1000	TRIAGE-1 1623-1	R	1		
	R	NURSE STATION 1618	900	1	20	37	A	38	20	1	900	RECEPT/CHECK IN 1622	R	2		
	R	NURSE STATION 1618	900	1	20	30	B	40	20		1800		R	2		
	R	NURSE STATION 1618 REERIG	700	1	20	11	C	40	20		1080		R	1		
+	R	MEDS 1617	900		20	43	Δ	42	20		1080		R	1		
-			500		20	45	R	44	20		500			1		
+	R		1080		20	40	C	40	20		500		R	1		
-			500		20	47	<u>ر</u>	50	20		1080			1		
+			500	1	20	49 51	R	52	20		500			1		
-			1090	1	20	52		52	20		500					
-			500	1	20	55		54	20		720			1		
-			500	1	20	57		50	20		720	TDEATMENT 1357				
+			1500	1	20	50		- 50 - 60	20		720	TREATMENT 1359		1		
+			1000		20	- 09 - 61		62	20		1090			1		
-			1000		20	62	A	64	20		1080	CHARTING DOOM 1255		1		
_	R D		1500		20	03	В	04	20		900					
-		EXERCISE 1350 TREADMILL 6-20R	1000	2	20	67		00	20		720			1		
-	R		1000	<	00	67	A	08 70	20		900		R	1		
-	R		1500	1	20	69	В	70	20		1080	HOME HEALTH WORK RM 1330	R	1		
	ĸ	RECEPT/ASSIST OFFICE 1331	1080	1	20	71	C	12	20	1	1080	HOME HEALTH OFFICE 1332	ĸ	1		
RF	HASF	VA WITH DOWNSTREAM LOADS			LOAD SUMM	ARY WITH	DOWNST	REAMLC		ED			1			
		A - B - C	TOTAL VA		CATEGORY		CONNEC	TED	FACTOR	2	CALC'D V-A	AMPS @ 208Y/120 VOLTS				
٩LC	D	19015 - 18548 - 17307	54,871		L - LIGHTING	i	2,900		125%	b	3,625	10				
NNC	TD	30952 - 31160 - 29044	91,156		R - RECEPT		82,520		100%	þ	10,000	28				
SW	NSTR	ISTREAM LOADS			R - RECEPT				50%	ò	36,260	101				
_3A	2				M - MOTOR		600		100%	b	600	2				
					LRGST MTR		600		25%	ò	150	0				
					X - MISC		4,236		100%	ò	4,236	12				
					K - KITCHEN				100%							
		ADDITIONAL NOTES			E - ELEC HEA	٩T			100%	0						
					TOTAL 90,256						54,871 152					
				S - SUBFEED TO A PANEL P - SPARE BKR C - SPACE												

	RDH - SURGERY DEPT	Μ	-E Engir	neers	lnc.			PANEL: OR1B				
	208/120		BUS:		Amps		Copper			SECTION:	1 OF 1	
	1PHASE,3WIRE+GND		MAINS:		FUSE	D MAIN				LOCATION:	OR 1641	
											NEW PANEL	
ES:	10 KW ISOLATION PANEL	•			OPTION	NS:				DATE:	11/29/22	
										FED FROM :	ECH1	
										MOUNTING :	RECESSED	
										ISSUE:		
ID	DESCRIPTION	V-A	Р	BKR	CKT	PH	CKT	BKR	Р	V-A	DESCRIPTION	
Х	CSCRE-008 RCPT	180	2	20	1	Α	2	20	2	384	CSCRE-008 SWITCH	
Х		180	<		3	В	4		>	384		
Х	CSCRE-008 RCPT	180	2	20	5	Α	6	20	2	450	TBSMA-036	
Х		180	<		7	В	8		>	450		
Х	CSCRE-008 RCPT	180	2	20	9	А	10	20	2	432	MTRVY-001	
Х		180	<		11	В	12		>	432		
Х	CSCRE-008 RCPT	180	2	20	13	А	14	20	2		SPARE	
Х		180	<		15	В	16		>			
	Book1.xls	•					•					
PHASE	VA WITH DOWNSTREAM LOADS			LOAD SUMM	IARY WITH	DOMNS.	TREAM LC	ADS INCLUD	ED .			
	A - B	TOTAL VA		CATEGORY		CONNEC	TED	FACTOF	R	CALC'D V-A	AMPS @ 208/120 VOLTS	
D''	1422 - 1986	3,408		L - LIGHTING	6			125%	)			
CTD	1986 - 1986	1,986		R - RECEPT				100%	)			
/NSTR	EAM LOADS			R - RECEPT				50%	)			
				M - MOTOR				100%	,			
				LRGST MTR				25%	)			
				X - MISC		3,972		100%	,	3,972	19	
				K - KITCHEN				100%	,			
	ADDITIONAL NOTES			E - ELEC HE	AT			100%	,			
				TOTAL		3,972				3,972	19	
				S - SUBFEED	TO A PANE	L P-S	PARE BKR	C - SPACE		, ,		
								,				

3

		RANGELY DISTRICT HOSPITAL		M	E Engir	neers	Inc.				PANEL ·	M2A		
		480Y/277		BUS:	250	Amps		Copper			SECTION:	1 OF 1		
		3PHASE,4WIRE+GND		MAINS:		M.L.O.					LOCATION:	ELECTRICAL ROOM 1656		
		30K AIC										EXISTING PANEL		
NOT	ES:	1. EXISTING LOAD ON EXISTING BREAKER	•			OPTION	NS:				DATE:	11/29/22		
		2. NEW LOAD ON EXISTING BREAKER									FED FROM :	MDB		
		3. NEW LOAD ON NEW BREAKER									MOUNTING :	SURFACE		
		4. EXISTING LOAD MADE SPARE									ISSUE:			
Ν	ID	DESCRIPTION	V-A	Р	BKR	CKT	PH	CKT	BKR	Р	V-A	DESCRIPTION	ID	_
3	X	WSREL-017	6648	3	30	1	A	2	20	3	443	KEF-C1	M	
3	Х		6648	<		3	В	4		>	443		M	
3	X		6648	<		5	С	6		>	443		M	_
	P	SPARE		3	20	7	A	8	50	3		SPARE	P	_
	P		_	<		9	В	10		>			P	_
-	P			<		11	С	12		>			P	_
2	Х	H1	8338	3	40	13	A	14	20	3		SPARE	P	
2	Х		8338	<		15	В	16		>			P	_
2	Х		8338	<		17	С	18		>			P	_
	P	SPARE		3	50	19	A	20	20	3	2105	CA-1	M	_
	P			<		21	В	22		>	2105		M	_
	P			<		23	С	24		>	2105		M	_
	P	SPARE		1	20	25	A	26	20	1		SPARE	P	_
	P	SPARE		1	20	27	В	28	20	1		SPARE	P	_
	P	SPARE		1	20	29	С	30	20	1		SPARE	P	_
	P	SPARE		1	20	31	A	32	20	1		SPARE	P	4
	P	SPARE		1	20	33	В	34	20	1		SPARE	P	┛
	P	SPARE		1	20	35	С	36	20	1		SPARE	P	┛
	P	SPARE		1	20	37	A	38	20	1		SPARE	P	┛
	Р	SPARE		1	20	39	В	40	20	1		SPARE	Р	_
	Р	SPARE		1	20	41	С	42	20	1		SPARE	Р	_
	P	SPARE		1	20	43	A	44	20	1		SPARE	P	_
	Р	SPARE		1	20	45	В	46	20	1		SPARE	Р	_
	P	SPARE		1	20	47	С	48	20	1		SPARE	Р	_
	Р	SPARE		1	20	49	A	50	20	1		SPARE	Р	_
	Р	SPARE		1	20	51	В	52	20	1		SPARE	Р	_
	P	SPARE		1	20	53	С	54	20	1		SPARE	Р	_
	P	SPARE		1	20	55	A	56	20	1		SPARE	P	_
	P	SPARE		1	20	57	В	58	20	1		SPARE	P	_
	Ρ	SPARE		1	20	59	С	60	20	1		SPARE	Р	
										ED				_
		A - B - C	TOTAL VA		CATEGORY		CONNEC	TED	FACTOR		CALC'D V-A	AMPS @ 480Y/277 VOLTS		
CALC	C'D	18061 - 18061 - 18061	54,182		L - LIGHTING	6			125%	,		0		
CNN	CTD	17534 - 17534 - 17534	52,602		R - RECEPT				100%	5				
DOM	VNST	TREAM LOADS			R - RECEPT				50%	5				
					M - MOTOR		7,645		100%		7,645	9		
					LRGST MTR		6,316		25%	5	1,579	2		
					X - MISC		44,958		100%	5	44,958	54		
					K - KITCHEN				100%	,				
		ADDITIONAL NOTES			E - ELEC HE	AT			100%	0				
					TOTAL		52 603				54 182	65	1	

6

		RDH - SURGERY DEPT	Μ	-E Engin	eers	Inc.			PANEL: L3A					
		208Y/120		BUS:	250	Amps		Copper			SECTION:	2 OF 2		
		3PHASE,4WIRE+GND	1	MAINS:		M.L.O.					LOCATION:	ELECTRICAL 1656		
		10K AIC										EXISTING PANEL		
NOT	ES:	1. EXISTING LOAD ON EXISTING BREAKER	-			OPTION	IS:				DATE:	11/29/22		
		2. NEW LOAD ON EXISTING BREAKER									FED FROM :	L3A_1		
		3. NEW LOAD ON NEW BREAKER									MOUNTING :	SURFACE		
		4. EXISTING LOAD MADE SPARE									ISSUE:			
N	ID	DESCRIPTION	V-A	Р	BKR	СКТ	PH	CKT	BKR	Р	V-A	DESCRIPTION	ID	N
1	R	OUTPATIENT WAITING C-1300F	1080	1	20	73	A	74	20	1	720	TRAUMA-1 1616-1	R	1
1	R	EXERCISE 1350	1080	1	20	75	В	76	20	1	500	TRAUMA-1 1616-1 EQUIP	R	1
1	R	BREAK ROOM-1 1668-1	720	1	20	77	С	78	20	1	500	TRAUMA-1 1616-1 EQUIP	R	1
1	R	CORRIDOR C-1600J DOOR	500	1	20	79	A	80	20	1	1080	CENTRAL TECH WORK 1657	R	1
	P	SPARE		1	20	81	В	82	20	1	900	CT SCAN 1664	R	1
	P	SPARE		1	20	83	C	84	20	1	900	RADIOLOGY ROOM 1667	R	1
1	R	READING 1674	900	1	20	85	A	86	20	1	1000	BREAK ROOM 1 1668-1 REFRI	R	
1	R	READING 1674 PRINTERS	1000	1	20	87	В	88	20	1	1500	BREAK ROOM-1 1668-1 MICRO	R	
1	R	ULTRASOUND 1671	1080	1	20	89	C A	90	20	1	1500	BREAK ROUM-1 1668-1 COFFEE	ĸ	1
1	R	MAMMU 1673	1000	3	30	91	A	92	20	1	936			
1	ĸ		1000	< -		93		94	20		1200		X	
1	ĸ		1000	<	20	95		90	20		000			$\frac{1}{2}$
	R D		300	1	20	9/	A	90	20		900	STAFF ILL. 1000G UWASU-UZZ		
4	r V		500	1	20	99		100	20		600			4
	^ V		1000	1	20	101	^	102	20		1020			+
			1000	1	20	105		104	20		1020			+-
	Г	SFARE		1	20	105		100	20	1		SFARE		-
		SPARE	-	1	20	107		100	20	1				
		SFARE		1	20	109	R	110	20	1				
	Г D	SDARE		1	20	113		112	20	1			F D	
	Г D	SDARE		1	20	115		114	20	1			Г	+
	Г D	SDARE		1	20	117	R	110	20	1			Г	+
	Г D			1	20	110		110	20	1		SPARE	P	+
	P			1	20	113		120	20	1		SPARE	P	+
	P	SPARE		1	20	121	B	122	20	1		SPARE	P	
	P			1	20	125	C	124	20	1		SPARE	P	+
	P	SPARE		1	20	120	Δ	120	20	1		SPARE	P	
	P	SPARE		1	20	127	B	120	20	1		SPARE	P	+
	P	SPARE		1	20	131	C C	132	20	1			P	+
	P	SPARE		1	20	133	A	134	20	1		SPARF	P	+
	P	SPARE		1	20	135	В	136	20	1			P	+
	P			1	20	137	c	138	20	1			P	
	L	IMAGING CONTROL ROOM LTG	400	1	20	139	A	140	20	1		SPARE	P	+
	L	CT SCAN LTG	1300	1	20	141	В	142	20	1		SPARE	P	+
	L	RADIOLOGY LTG	1200	1	20	143	С	144	20	1		SPARE	Р	+
	P	SPARE		1	20	145	A	146	20	1			P	+
	Р	SPARE	1	1	20	147	В	148	20	1		SPARE	P	+
	Р	SPARE	1	1	20	149	С	150	20	1		SPARE	Р	+
	Р	SPARE	1	1	20	151	А	152	20	1		SPARE	Р	+
	Р	SPARE		1	20	153	В	154	20	1		SPARE	Р	-
	Р	SPARE		1	20	155	С	156	20	1		SPARE	Р	+
		Book1.xls	•		•	<u> </u>	•	•			I		<u> </u>	<u> </u>
PER	PHASE	VA WITH DOWNSTREAM LOADS			LOAD SUMM	ARY WITH	DOWNS	TREAM LC	ADS INCLUD	ED .				_
		A - B - C	TOTAL VA		CATEGORY		CONNEC	TED	FACTOR	2	CALC'D V-A	AMPS @ 208Y/120 VOLTS		
CALC	CD         9339 - 7148 - 7243         23,731           CTD         10996 8480 8600         27,076				•	2,900		125%		3,625	10 28	_		
DOW	VNSTREAM LOADS			R - RECEPT		20,240		50%		5.120	14			
					M - MOTOR		600		100%		600	2		
					LRGST MTR		600		25%	,	150	0		
					X - MISC		4,236		100%		4,236	12		
					K - KITCHEN		Ī		100%					
	ADDITIONAL NOTES				E - ELEC HE/	٩T			100%					
							Ī							
					TOTAL 27,9			27,976			23,731	66		
						S - SUBFEED TO A PANEL P - SPARE BKR C - SPACE								

![](_page_52_Figure_16.jpeg)

![](_page_52_Figure_17.jpeg)

![](_page_52_Picture_18.jpeg)

![](_page_53_Figure_0.jpeg)

![](_page_53_Figure_2.jpeg)

	6	
GENERAL NOTES:		GENERAL
1. THE LOCATION OF EXISTING EQUIPMENT AND DEVICES ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR. ACCURACY OF THE	1.	ELECTRICAL CONTR COORDINATE EXACT MECHANICAL UNITS CONTRACTOR.
INFORMATION SHOWN IS NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING THE PROJECT BID. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CHANGES WHICH OCCUR AFTER BIDS ARE SUBMITTED WHICH ARE A RESULT OF EXISTING CONDITIONS. SITE VISITS PRIOR TO SUBMISSION OF BIDS MUST BE FULLY COORDINATED WITH THE OWNER.	2.	ALL EXPOSED COND ROUTED PERPENDIO AND TIGHT TO COLU ALL EXPOSED COND SHALL BE COORDINA ARCHITECT PRIOR T AND INSTALLED IN A CONSISTENT MANNE COST TO OWNER W FOR RELOCATING C THE LACK OF COOR
2. DURING DEMOLITION AND NEW CONSTRUCTION THE CONTINUATION OF BUILDING SYSTEMS MAY BE NECESSARY. TRACE AND IDENTIFY EXISTING ELECTRICAL SYSTEM		ARCHITECT. ALL SOF CONDUIT WHERE EX AREAS SHALL BE PA COLOR TO BE DETEN ARCHITECT.
(POWER, LIGHTING AND FIRE ALARM) WIRING IN AREAS PRIOR TO DEMOLITION. ELECTRICAL CONTRACTOR SHALL DISCONNECT ALL NECESSARY EQUIPMENT TO MAKE IT SAFE FOR DEMOLITION. WHERE LIVE BRANCH CIRCUITS OR FEEDERS PASS THROUGH A REMODEL AREA, CONTRACTOR SHALL MAINTAIN	3.	ALL BACK BOXES SH MOUNTED UNLESS N OTHERWISE. ALL VE OF CONDUIT SHALL CONTRACTOR SHALL INSTALLATION OF CO BOXES IN CONCRET GYP. WALLS.
ELECTRIC CONTINUITY TO AND PROTECT BRANCH CIRCUITS AND/OR FEEDERS PASSING THROUGH. WHERE FEEDERS AND/OR BRANCH CIRCUITS FEED BOTH LOADS IN A REMODELED	4.	THIS CONTRACTOR "MEP" SERIES DRAW MECHANICAL EQUIP CONNECTIONS.
AREA AND OUTSIDE OF A REMODELED AREA, CONTRACTOR SHALL DISCONNECT AND REMOVE PORTIONS OF THE ELECTRICAL BRANCH CIRCUITS AND/OR EEEDERS WITHIN THE	5.	CIRCUITS TO ALL ME EQUIPMENT SHALL E UNLESS NOTED OTH
REMODELED AREA AND REWORK BRANCH CIRCUITS AND/OR FEEDERS		KEYNO
TO MAINTAIN ELECTRICAL CONTINUITY TO LOADS OUTSIDE OF THE REMODELED AREA.	E1 E2	REPLACE EXISTING NEW GFCI RECEPTA PROVIDE DEDICATE
<ol> <li>DEVICES AND EQUIPMENT TO BE DEMOLISHED SHALL BE REMOVED,</li> </ol>	E3	RECEPTACLE. PROVIDE DEDICATE CRITICAL BRANCH F
INCLUDING ALL RELATED CONDUCTORS, RACEWAY, JUNCTION AND SPLICE BOXES UP TO THE PANELBOARD/ SWITCHBOARD. ALL CONDUITS AND BOXES THAT ARE	E4	PROVIDE (5) DEDICA RETRACTABLE COLU PANEL SCHEDULE F DESIGNATIONS.
SURFACE MOUNTED AND NO LONGER REQUIRE ACTIVE CIRCUITS SHALL BE COMPLETELY REMOVED. DEVICES TO BE REMOVED ON DRY WALL OR PLASTER TYPE WALLS THAT ARE TO REMAIN SHALL HAVE THE WALL SURFACE PATCHED TO MATCH THE EXISTING FINISH. THE CONTRACTOR	E5	PROVIDE (8) DEDICA PANEL CIRCUITS FC CIRCUIT FOR ACTIVI CIRCUITS FOR RECE CIRCUIT FOR SURGE CIRCUITS FOR MON PANEL SCHEDULE F DESIGNATIONS.
ABANDONED BRANCH CIRCUITS. THESE SHALL BE NOTED AS SPARE ON PANELBOARD DIRECTORIES. THIS INCLUDES IDENTIFYING EXISTING ABANDONED AND SPARE CIRCUITS THAT ARE CURRENTLY IDENTIFIED AS USED. THE CONTRACTOR SHALL FURNISH NEW TYPED DIRECTORIES FOR ALL PANELBOARDS.		DOORS.
4. THE OWNER HAS THE RIGHT TO RETAIN ALL SALVAGEABLE MATERIAL. ANY MATERIAL THE OWNER CHOOSES NOT TO ACCEPT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.		
5. FULLY COORDINATE MECHANICAL EQUIPMENT ELECTRICAL CONNECTION REMOVAL AND RELOCATION WITH THE MECHANICAL CONTRACTOR.		
6. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING DEMOLITION DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.		
7. DASHED DEVICES ARE EXISTING TO BE DEMOLISHED. DASHED DEVICES AND TAGGED WITH (R) ARE EXISTING TO BE RELOCATED. SOLID THIN LINE WEIGHT DEVICES ARE EXISTING TO REMAIN. SOLID DEVICES AND TAGGED WITH (N) ARE NEW DEVICES. SOLID THIN		

3. WHERE DEVICES OR EQUIPMENT IS TO BE RELOCATED, CONTRACTOR SHALL EXTEND EXISTING CIRCUITING TO NEW LOCATION. ENSURE CIRCUIT CONTINUITY FOR OTHER DEVICES OR EQUIPMENT ON THE SAME BRANCH CIRCUIT.

![](_page_53_Figure_5.jpeg)

![](_page_54_Picture_0.jpeg)

![](_page_54_Figure_2.jpeg)

5					
	M N N N N N N N N N N N N N N N N N N N	GENERA THE LOCATION A EQUIPMENT ANY FOR THE CONVE CONTRACTOR A SUBMITTING ADDITIONAL CO ALLOWED FOR A OCCUR AFTERS WHICH ARE A R CONDITIONS SI SUBMISSION OF COORDINATED DURING DEMOL BUILDING SYSTI NECESSARY EG SAFE FOR DEMOL THOUGH A REA CONTRACTOR SI ELECTRIC CONT PROTECT BRAN FEEDERS PASSI FEEDERS AND/OR FEEDERS PASSI FEEDERS AND/OR FEEDERS PASSI FEEDERS AND/OR FEEDERS PASSI FEEDERS AND/OR FEEDERS PASSI FEEDERS AND/OR FEEDERS PASSI FEEDERS AND/OR FEEDERS PASSI FEEDERS PASSI	AL NOTES: OF EXISTING D EVICES ARE SHOWN ENIFECE OF THE ACCURACY OF THE ACCURACY OF THE SHOWN IS NOT THE PROJECT BID. NO MPENSATION WILL BE CHANGES WHICH BIDS ARE SUBMITTED ESULT OF EXISTING TE VISITS PRIOR TO IEDS MUST BE FULLY WITH THE OWNER. ITION AND NEW I THE CONTINUATION OF EMANGES WHICH BIDS AND SHE ALARM) S PRIOR TO LECTRICAL SPRIOR TO LECTRICAL SHALL DISCONNECT ALL UPMENT TO MAKE IT DLITION. WHERE ALARM) S PRIOR TO LECTRICAL SHALL DISCONNECT ALL UPMENT TO MAKE IT DLITION. WHERE ALARM) S PRIOR TO LECTRICAL SHALL AND/OR FEEDERS SHALL MINTAIN INUITY TO AND CH CIRCUITS AND/OR ING THACUGH. WHERE DA BRANCH CIRCUITS SWITHIN THE YEA AND REMODELED SIDE OF A REMODELED SIDE OF THE YEA. AND REMOVED FORTIONS ICAL BRANCH CIRCUITS WALLS THAT ARE THE AND NO LONGER E CIRCUITS SHALL BOXES THAT ARE THE AND NO LONGER E CIRCUITS SHALL SO REMOVED FROM IRECTORIES. THIS THYING EXISTING TO HER SHALL AND NO LONGER E CIRCUTS SHALL SO REMOVED FOR ALL BERMOVED FROM IRECTORIES. THIS THYING SUBLED AND NO LONGER AND NO LONGER E CIRCUITS SHALL SO REMOVED FOR ALL BERMOVED FOR ALL BERMOVED FROM INFECTORIES. THIS THYING SUBLED STHE REMOVED FROM INFECTORIES. THIS THYING SUBLED SO REQUIPTION WITH (N) ES SOLED OF BY THE ALL BERMOVED FOR AND TAGED WITH (N) ES SOLED OF BY THE ALL SO CONTRACTOR. AND TAGED WITH (N) ES SOLED THIS AND TAGED THIS AND THIS LINE AND THE AND THE AND THE ALL AND THE ALL AND THE AND THE AND THE AND THE AN	GENERA 1. ELECTRICAL CON COORDINATE EX MECHANICAL UNI CONTRACTOR. 2. ALL EXPOSED CO SHALL BE COORD ARCHITECT PRIO CONSISTENT MAY COST TO OWNER FOR RELOCATING THE LACK OF CON ARCHITECT. ALL SCONDUIT WHERE AREAS SHALL BE COLOR TO BE COLOR TO BE COLOR TO BE CONDUIT SHAY OF CONDUIT SHAY UNLESS NOTED CONS. 5. CIRCUITS TO ALL EQUIPMENT SHAY UNLESS NOTED CONSTRUCTIONS. 5. CIRCUITS TO ALL EQUIPMENT SHAY EQUIPMENT SH	L NOT TRACTOR TRACTOR TRACTOR TO LOCATOR TO LOCATOR NDUIT SE NOTIONATION TO INST NOTIONATION TO INST NOTIONATION NOTIONATION TO INST NOTIONATION TO INST NOTIONATIONATIONATIONATIONATIONATIONATIO
				/	$\sim$
			1 1		

![](_page_54_Figure_8.jpeg)

![](_page_54_Figure_9.jpeg)

![](_page_55_Picture_0.jpeg)

![](_page_55_Figure_2.jpeg)

D	DESCRIPTION	VOLTAGE	AMPS	PHASE	WATTS	KVA CONNECTION	CIRCUIT	DEDICATED?	EM?	NOTES
AMGEN-017	ANETHESIA MACHINE	120	2.3	1	276	NEMA 5-15	(2#12, 1#12G)3/4"C	N	Y	
CAANC-002	ANETHESIA CART	120	3	1		NEMA 5-15	(2#12, 1#12G)3/4"C	N	Y	
CAPMH-007	MALIGNANT HYPERTHERMIA CART	120	0.8	1		NEMA 5-15	(2#12, 1#12G)3/4"C	N	N	
CAPRE-046	DEFIBRILLATOR MONITOR	120	1	1		0.12 NEMA 5-15	(2#12, 1#12G)3/4"C	N	Y	
CRMFL-001	X-RAY UNIT	120	15	1	1800	NEMA 5-15	(2#12, 1#12G)3/4"C	N	N	
CSCRE-008	RETRACTABLE COLUMN	120		1		HARDWIRE	(2#12, 1#12G)3/4"C	Y	Y	PROVIDE 5 DEDICATED CIRCUITS
CWASC-022	WARMING CABINET	120	7.5	1	750	NEMA 5-15	(2#12, 1#12G)3/4"C	N	N	
CENC-039	ICE MACHINE	120	8.5	1		NEMA 5-15	(2#12, 1#12G)3/4"C	Y	N	
NLST-019	STEAM INCUBATOR	120	15	1		NEMA 5-15	(2#12, 1#12G)3/4"C	Y	N	
TSMB-008	SURGICAL LIGHT AND BOOM	120		1		HARDWIRE	(2#12, 1#12G)3/4"C	Y	Y	PROVIDE 8 DEDICATED CIRCUITS
MEDMH-054	MEDICATION DISPENSER	120	3	1		NEMA 5-15	(2#12, 1#12G)3/4"C	N	N	
MTRVY-001	VIDEO MONITOR	120	3.6	1	. 290	NEMA 5-15	(2#12, 1#12G)3/4"C	N	N	
REFDC-027	REFRIGERATOR	120	5	1		NEMA 5-15	(2#12, 1#12G)3/4"C	N	N	
SLRHT-004	HEAT SEALER	120	5	1		NEMA 5-15	(2#12, 1#12G)3/4"C	N	N	
SNKTS-002	SCRUB SINK	120	1.2	1		NEMA 5-15	(2#12, 1#12G)3/4"C	N	N	
STESE-002	STERILIZER CONTROL	120	9.5	1		HARDWIRE	(2#12, 1#12G)3/4"C	N	N	
STESE-002	STERILIZER	480	37	3		HARDWIRE	(3#8, 1#10G)3/4"C	N	N	
BSMA-071	SURGICAL TABLE	120	3.75	2		0.45 NEMA 5-15	(2#12, 1#12G)3/4"C	Y	Y	
TINAS-025	INSTRUMENT TABLE	120	15	1		NEMA 5-15	(2#12, 1#12G)3/4"C	N	N	
SKMM-006	MAGNIFYING LAMP	120	0.05	1	. 6	NEMA 5-15	(2#12, 1#12G)3/4"C	N	N	
JLTMP-007	ULTRASOUND	120	2	1		NEMA 5-15	(2#12, 1#12G)3/4"C	N	N	
WSREL-017	WASHER/DISINFECTOR	480	24	3		HARDWIRE	(3#10, 1#10G)3/4"C	Y	N	

MEDICAL EQUIPMENT ELECTRICAL SCHEDULE

Α

D

1

С

1

![](_page_56_Picture_6.jpeg)

3

4

![](_page_56_Figure_8.jpeg)

5

![](_page_56_Figure_9.jpeg)

## 2 RECEPTACLE IDENTIFICATION Not To Scale

KEYNOTES: 1 PROVIDE BLACK LETTERING ON CLEAR LABEL FOR NORMAL CIRCUITS AND RED LETTERING ON CLEAR LABEL FOR EMERGENCY/STANDBY CIRCUITS.

![](_page_56_Figure_12.jpeg)

![](_page_56_Figure_13.jpeg)

4

6

![](_page_56_Figure_16.jpeg)

1/4" 1/8" 1/4" 1/4" 1/4" 1/4"

![](_page_57_Figure_0.jpeg)

	5			6		
		EQUIPM	IENT LEGEN	D:		
					EQUIPMENT TAG	
			OOR SWING AREA		EQUIPMENT CONFLIC CASEWORK CLASH:	<u>1 17</u> 1
		ROOM TAG		ROOM NAME	SPATIAL CLASH: OTHER:	2 3 4
			EO 01 00			
		EQ#:	CQ-01.00 -		SCRIPTION:	UL
		LVL 01.0 AMGEN-017	GENERAL ANESTH	ESIA MACHIN	E	
		BRMWF-021 CAANA-037	MONITOR WALL BR	ACKET MOUN	NT FLAT	
			ANESTHESIA CART			
		CAPMH-007 CAPRE-046	RESUSCITATION C	ART		
		CASSW-002 CASTS-007	STERILE WRAP CAI DESCRIPTION	RT		
		CNCST-006 CNCST-007	CLINICAL CABINET			
		CRMFL-001 CSCRE-008	MOBILE X-RAY UNI ANESTHESIA BOOM	T, C-ARM <i>I</i>		
		CWASC-022		RMING CABIN	ET	
		EQSUS-001				
		ICENC-039	NUGGET ICE MACH	INE		
		INLST-019 ISYSV-025	BIOLOGICAL LAB IN SURGICAL VIDEO II	ICUBATOR NTEGRATION		
		LTSMB-008 MEDMH-054	DESCRIPTION MEDICATION DISPE	INSER		
		MTRTM-010				
		REFDC-027	COMPACT REFRIG	ERATOR		
		SHLCE-019 SHRWM-015	CHROME WIRE SHE SHARPS DISPOSAL	LVING		
		SLRHT-004 SNKCR-030	HEAT PACKAGING	SEALER DRKSTATION		
		SNKTS-002 STESE-002	DOUBLE SCRUB SI	NK R		
		STLAT-010	ANESTHETIST STO	OL F		
		TINAS-025 TINST-004	INSTRUMENT TABL	E E		
		TINTT-003 TINTT-014	INSTRUMENT TABL INSTRUMENT TABL	E E		
		TSKMM-006 TWKST-001	TASK LAMP W/ MAC STAINLESS STEEL	GNIFYING GLA WORK TABLE	ASS	
		ULTMP-007 WSRFL-017	MULTIPURPOSE UL	TRASOUND		
		WSTBV-008	44-55 GALLON WAS	STE CAN		
		WSTRF-002	44-55 GALLON WAS	STE CAN		
		Ĩ				
PR( PREP/	ICEDURE RECOVERY					
	0 5' 10' 20' 30'					
	1/8" = 1'-0" - GRAPHIC SCALE PLAN NORTH					

![](_page_57_Picture_3.jpeg)