

PROJECT:

HARRISON ELEMENTARY SCHOOL HVAC REPLACEMENT

Harrison Elementary School 600 Harrison St. Twin Falls, ID 83301

CLIENT:

TWIN FALLS SCHOOL DISTRICT #411

ARCHITECTS

201 MAIN AVE. TWIN FALLS, IDAHO 83301

HUMMEL

 205 N. 10th Street
 482 Constitution Way,

 Suite 300
 Suite 111

 Boise, Idaho 83702
 Idaho Falls, ID 83402

 208.343.7523
 208.343.7523

hummelarch.com

CONSULTANTS:

STRUCTRUAL ENGINEER KPFF

MECHANICAL AND ELECTRICAL ENGINEER CATOR RUMA & ASSOCIATES CO



VICINITY MAP :



DRAWING SET:

ARCHITECTURAL STRUCTURAL MECHANICAL ELECTRICAL

H.A.-JOB # 24075



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4 DRAWING INDEX:
PACTOR PACTOR

5 CODE INFORMATION:

APPLICABLE CODES

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2017 NATIONAL ELECTRICAL CODE 2017 IDAHO STATE PLUMBING CODE 2018 INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL FIRE CODE 2018 INTERNATIONAL EXISTING BUILDING CODE 2018 INTERNATIONAL ENERGY CONSERVATION CODE 2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL FUEL GAS CODE 2009 ICC A117.1-2009 ACCESSIBLE AND USABLE BUILDNGS AND FACILITIES 1997 UNIFORM CODE FOR THE ABATEMENT OF DANGEROUS BUILDINGS

HARRISON ELEMENTARY SCHOOL

EXISTING SCHOOL OCCUPANY TYPE: E FULLY SPRINKLERED

PROJECT DESCRIPTION: REROOFING, HVAC & ELEC UPGRADES AND A TENANT IMPROVEMENT TO THE EXISTING CLASSROOMS AND HALLWAY CEILINGS.

OCCUPANT LOAD: UNCHANGED

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GENERAL NOTES UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO THE FACE OF STUDS FOR GWB WALLS/PARTITIONS. UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO FACE OF FINISHED MASONRY FOR CMU. SCREENED LINES REPRESENT EXISTING WALLS, DOORS, WINDOWS, CEILINGS, ETC TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION ACTIVITIES. PROTECT FROM DAMAGE ALL EXISTING TO REMAIN CASEWORK, EQUIPMENT, FLOOR FINISHES AND CEILING FINISHES DURING CONSTRUCTION. 5. PROTECT FROM DAMAGE DURING DEMOLITION, MOVING AND CONSTRUCTION ALL EXISTING CASEWORK, EQUIPMENT, FURNITURE, PROJECTORS AND ARTWORK THAT IS TO BE RE-USED. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK. COORDINATE THE DEMOLITION OF EXISTING CEILING WITH NEW PLANS, REFLECTED CEILING PLANS AND ROOF FINISH SCHEDULE. 8. FIELD VERIFY ALL EXISTING STURCTURAL WALLS AND BEAMS.



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LEGEND	
NEW CONSTRUCTION EXISTING WALL	DN
MATCH LINE	
LOS N. 10th Street Suite 300 Suite 111 Suite 111	EL HITECTS hummelarch.com
EPLACEMENT rrison Elementary School) Harrison St. in Falls, ID 83301	
OMPOSITE FLOOR	PLAN
Revisions	
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Project No: Drawn By: Checked By: Date:	24075 NB PR 01/15/2025

GENERAL NOTES A. THE COMPOSITE PLANS ARE INTENDED TO SHOW OVERALL LAYOUT. RE: AREA PLANS FOR ADDITIONAL INFORMATION
B. PLAN WALL DIMENSIONS ARE TO GRID LINE OR FACE OF WALL STRUCTURE. "CLEAR" DIMENSIONS ARE TO FACE OF WALL FINISH.
C. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
D. DO NOT SCALE DRAWINGS.
E. STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.



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AREA A AREA B

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00 AREA B

AREA A

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1 1/2" = 1'-0"

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CD

GENI	ERAL NOTES
A. SEE CIVIL, STRUCTURAL, DRAWINGS FOR MORE IN B. DO NOT SCALE DRAWING	MECHANICAL AND ELECTRICAL IFORMATION. GS.
 C. FOR ALL EXTERIOR WOR D. FOR ROOF FRAMING COO DRAWINGS 	K, RE: EXTERIOR ELEVATIONS. ORDINATE WITH STRUCTURAL
REFER	
4 COORDINATE WITH REF	LECTED CEILING PLAN.
 LIGHTING FIXTURES, CC PRESERVE AND PROTECT REMOVE EXISTING WINI 	OORDINATE WITH ELECTRICAL DRAWINGS. CT EXISTING WINDOW SYSTEM OOW SYSTEM. PROVIDE NEW CLEARSTORY
WINDOW. RE SHEET A7. 4 MECHANICAL SCREENIN 02 NEW MECHANICAL EQUI	01. IG WALL. RE B1/A2.92. PMENT. COORDINATE WITH MECHANICAL
03 NEW DUCT, COORDINAT	E WITH MECHANICAL DRAWINGS.
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BUILDING SE	ECTIONS
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GENE	ERAL NOTES
A. FOR SIZE AND CONNEC COMPONENTS (BEAMS)	TION DETAILS OF STEEL FRAMING AND COLUMNS), STEEL JOISTS AND
GIRDERS, STEEL DECKI REFERENCE THE STRUC B. FOR REINFORCING OF (NG AND OTHER STEEL SECTIONS, CTURAL DRAWINGS. CONCRETE SLABS, FOOTINGS AND
FOUNDATIONS, COORDI C. FOR WINDOW TYPES, C D. PROVIDE BITUMINOUS D	INATE WITH STURCTURAL DRAWINGS. OORDINATE WITH FLOOR PLANS. DAMPROOFING ON ALL EXTERIOR
FOUNDATION WALLS AS PROVIDE BELOW GRADI E. PAINT ALL EXPOSED TO	S PER SPECIFICATION DIVISION 7. E ONLY. VIEW STRUCTURAL STEEL, DECK, AND
F. PAINT ALL EXPOSED TO ASSOCIATED ITEMS, ELI	RALTIEMS. VIEW MECHANICAL DUCTWORK AND ECTRICAL CONDUIT AND ASSOCIATED
ASSOCIATED ITEMS, UN G. RE: FLOOR PLANS FOR	ILESS NOTED OTHERWISE. WALL TYPES.
COLUMNS SHALL BE FIR DIV. 7 SECTION "SPRAYI	RE-RESISTIVE-RATED PER ASSEMBLIES IN ED FIRE RESISTIVE-RATED MATERIALS."
STRUCTURE. "CLEAR" D FINISH.	
DRAWINGS FOR MORE I K. SEE G SERIES SHEETS I ACCESSIBILITY CLEARA	NFORMATION. FOR WALL TYPES AND TYPICAL NCE AND COMPLIANCE REQUIREMENTS.
L. DO NOT SCALE DRAWIN	GS.
KE	YNOTES
000.A DIMENSIONAL LUME 000.D SHIM AS REQUIRED	BER
023.A WOOD TRIM. PAINT 500.A WEATHER RESISTIV	TO MATCH EXISTING. /E BARRIER
500.C SELF ADHERED FLE 500.E LAP SELF ADHERED NEW WEATHER BAR	XIBLE FLASHING FLEXIBLE FLASHING OVER EXISTING AND RRIER
213.13.A FORMED METAL WA 200.E FLASHING AND DRIF 200.B JOINT SEALANT	ALL PANELS P EDGE
900.F METAL J BEAD	
REFERI	ENCE NOTES
COORDINATE WITH STRU	JCTURAL DRAWINGS.
PRESERVE AND PROTEC PRESERVE AND PROTEC EXISTING METAL WALLS	CT EXISTING CONSTRUCTION CT EXISTING WINDOW SYSTEM PANEL TO BE PRESERVED AND PROTECTED
PRESERVE AND PROTEC REMAIN. REPAIR DAMAG	ET EXISTING MASONRY WALL SYSTEM TO ED AREAS TO MATCH ADJACENT WALL
PATCH AND TEXTURE W EXISTING GYP BOARD SI	ALL OPENINGS FLUSH TO ADJACENT URFACES. PAINT WALL CORNER TO CORNER
NEW DUCT, COORDINATI	E WITH MECHANICAL DRAWINGS.
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205 N. 10th Street 482 (Suite 300 Suite Boise Idaho 83702 Idaho	Constitution Way, hummelarch.com
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B5 A7.01 **STOREFRONT JAMB @ METAL** 3" = 1'-0"

C6 A7.01 **STOREFRONT SILL @ TPO** 3" = 1'-0"

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7' - 8"

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095113.C

TYP.

3' - 6" 4' - 6"

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6' - 4"

100% CD

GENE	RAL NOTES
COORDINATE WITH MECHA	NICAL AND ELECTRICAL DRAWINGS AND
SPECIFICATIONS FOR ADD CEILING PLANE AND IN THE INSTALL ALL SUSPENSION	TIONAL ITEMS TO BE PROVIDED AT THE WORK. SYSTEMS FOR ACOUSTICAL PANEL
CEILINGS PER PROVISIONS COORDINATE WITH MECHA SPECIFICATIONS FOR PHYS	S OF ASTM C 635 AND ASTM C 636. NICAL & ELECTRICAL DRAWINGS AND SICAL SIZES OF ALL CEILING GRILLES,
PAINT ALL EXPOSED-TO-VII ASSOCIATED STRUCTURAL	NS, AND ALL RELATED TIEMS. EW STRUCTURAL DECK, BEAMS AND ITEMS PAINT COLOR P-9, UNLESS
ASSOCIATED ITEMS, ELECT	EW MECHANICAL DUCTWORK AND RICAL CONDUIT, CABLE TRAYS AND BING AND FIRE PROTECTION LINES AND
ALL ASSOCIATED ITEMS PA NOTED. RE: DIVISION 9 SE RE: DIVISION 9 SECTION "IN	INT COLOR P-9, UNLESS OTHERWISE CTION "INTERIOR PAINTING". ITERIOR PAINTING" FOR ACOUSTIC
CEILING TILE PAINT SYSTE NEW WORK SHALL ALLOW EXISTING EXIT SIGNS AND	M. FOR CONTINUED FUNCTIONALITY OF THE SECURITY CAMERAS. ADJUST EXISTING
EXIT SIGNS AND SECURITY OTHER ASSOCIATED ITEMS ELECTRICAL AND FIRE PRO	CAMERAS WHERE NECESSARY AND B. SEE MECHANICAL, PLUMBING, DITECTION DRAWINGS FOR OTHER ITEMS
PAINT ALL EXISTING AND N TO STRUCTURAL, MECHAN ELECTRICAL ITEMS ABOVE	EW ITEMS INCLUDING BUT NOT LIMITED ICAL, PLUMBING, FIRE PROTECTION AND NEW CEILING CLOUDS.
KE	
5113.C APC-3	
5113.D 2" CURBED TRIM, B. PERIMETER TRIM B 5113.E HANGER WIRE	ASIS OF DESIGN: AXIOM VECTOR CURVED Y ARMSTRONG
5113.F T-BAR GRID SYSTE 5123.A ACOUSTICAL PANE	M L TO BE APPLIED TO EXISTING STRUCTURE
USING ADRESIVE.	
D-	
REFER	
 EXISTING ACOUSTIC CE AND REPAIR AS REQUIR EXISTING 3/4" STRIPPING 	EING TILE, PRESERVE AND PROTECT. PATCH ED. G
1 CROSS BRACING PER M	ANUFACTURERS INSTRUCTIONS
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	EXISTING	EV
	ANCHOR BOLT	EΧ
	ADDITIONAL	EΧ
	ADJUSTABLE	F
	ARCHITECTURALLY EXPOSED	FD
	STRUCTURAL STEEL	FD
	ABOVE FINISH FLOOR	FF
	ANCHOR	FL
	ARCHITECTURAL	FC
	BOTTOM OF	FS
	BUILDING	FT
	BLOCKING	FT
	BEAM	GA
	DIAPHRAGM BOUNDARY NAILING	GA
	BOTTOM	GE
	BEARING	GE
	BASEMENT	GL
1	BETWEEN	GC
	CAMBER	GF
	CAPACITY	GV
	CENTER TO CENTER	HF
	CONTROLLED DENSITY FILL	HC
	CAST-IN-PLACE	Hk
	CONSTRUCTION OR CONTROL JOINT	HC
	COMPLETE JOINT PENETRATION	HF
	CENTERLINE	HS
	CEILING	IB
	CLEAR	ID
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GAUGE	
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GRADE BEAM	
CENERAL	
GENERAL	
GLUED LAMINATED TIMBER	
GOVERNMENT	
GRADE	
GYPSUM WALL BOARD	
HEM-FIR	
HANGER	
HOOK	
HURIZUNTAL	
HIGH POINT	
HOLLOW STRUCTURAL SECTIO	N
INTERNATIONAL BUILDING COL)E
INSIDE DIAMETER	
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	OUTSIDE FACE
	OPENING
	OPPOSITE
	POWER ACTUATED LASTENER
	PILE CAP
	PENETRATION
	PARTIAL JOINT PENETRATION
	PLATE
	PLYWOOD
	POUNDS PER SQUARE FOOT
	POUNDS PER SOLIARE INCH
	PREFABRICATED WOOD TRUSS
	RADIUS
	ROOF DRAIN
	REINFORCING
)	REQUIRED
	ROUND
	ROUGH OPENING
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J	
	SECTION
	SEISMIC FORCE-RESISTING SYSTEM
	SHEET
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	SIMILAR
	SLAB-ON-GRADE
	SPECIFICATION
	SQUARE
	STAINI ESS STEEL
	STANDARD
	STEEL
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	SUPPORT
	SYMMETRICAL
	TOP AND BOTTOM
	TONGUE AND GROOVE
	TOP OF
	THICK(NESS)
	THROUGH
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	UNLESS NOTED OTHERWISE
	ULTRASONIC TESTING
	VERTICAL
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	WITH
	WITHOUT
	WOOD
	WIDE FLANGE

5		6	
	STRUCTURAL DRAWI	NG SYMBOLS	
10	GRIDLINE		CONCRETE WALL
	SURFACE - SLOPE UP		CMU WALL
	SURFACE - STEPPED		WALL ABOVE
77777777,	SURFACE - SLOPE DOWN	C=======	□□□ WALL BELOW
	SURFACE - SLOPE TWO WAYS		
	UNDISTURBED SOIL, COMPACTED SOIL, BACKFILL, O ANY PREPARED SUBGRADE.	R	
PLAN NORTH	NORTH ARROW		
	DETAIL SYMBOL		
	BUILDING SECTION CUTS		
\bigcirc	ELEVATION OF WALL OR FRAME		
A	DETAIL SECTION		
T.O. XXXX EL = XX'-XX"	SPOT ELEVATION AS INDICATED T.O. DECK T.O.CONC. T.O. STEEL T.O. PLY DECK BRG		
LEVEL 01	ELEVATION OF LEVEL		
▲ WP	WORKPOINT		
>	DIRECTION OF DOWNWARD SLOPE		

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ARRISON ELEM	ENTARY SCHOOL
arrison Elementary School 0 Harrison St vin Falls, ID 83301	
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IDEX	STIVIDOLS AND SHELT
	Revisions: \wedge
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	Checked By: JW Date: 01/15/2025
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GENERAL STRUCTURAL NOTES

DESIGN CRITERIA:

ROOF LIVE LOADS:

ROOF

20 PSF (REDUCIBLE)

ROOF SNOW LOADS: (SECTION 1603.1.3 OF THE CODE):

- GROUND SNOW LOAD: P_g = 15 PSF
- FLAT ROOF SNOW LOAD: $P_f = 12 PSF$
- MINIMUM SNOW LOAD: $P_m = 25 PSF$
- SNOW EXPOSURE FACTOR: $C_e = 1.0$
- SNOW LOAD IMPORTANCE FACTOR: $I_s = 1.1$
- SLOPE FACTOR: C_S = 1.0
- THERMAL FACTOR: $C_t = 1.0$

RAIN LOADS:

RAIN INTENSITY: *i* = 1.0 in/hr

WIND DESIGN DATA:

WIND LOADS ARE IN ACCORDANCE WITH SECTION 1609 OF THE CODE.

RISK CATEGORY: III

BASIC WIND SPEED: V = 109 MPH (3-SECOND GUST)

WIND EXPOSURE: C

INTERNAL PRESSURE COEFFICIENT: $GC_{pi} = \pm 0.18$

LOCATION		COMPONENT TRIBUTARY AREA (SQ FT)			
		10	50	100	
	ZONE 1	10.8/-26.4	9.2/-24.8	8.5/-24.1	
ROOF	ZONE 2	10.8/-44.2	9.2/-33.3	8.5/-28.6	
	ZONE 3	10.8/-66.6	9.2/-40.1	8.5/-28.6	
WALLS	ZONE 4	26.4/-28.6	23.6/-25.8	22.4/-24.7	
	ZONE 5	26.4/-28.6	23.6/-29.8	22.4/-27.3	
PARAPETS	ZONE 4	70.5/-54.9	56.9/-49.4	50.9/-47.1	
	ZONE 5	92.9/-61.6	63.6/-53.4	50.9/-49.7	

EARTHQUAKE DESIGN DATA:

SITE AND OCCUPANCY PARAMETERS				
SEISMIC IMPORTANCE FACTOR	l _e = 1.25			
RISK CATEGORY	Ш			
MAPPED SPECTRAL RESPONSE ACCELERATION	S _S = 0.190			
PARAMETERS	S ₁ = 0.082			
SITE CLASS	D-DEFAULT			
DESIGN SPECTRAL RESPONSE ACCELERATION	S _{DS} = 0.202			
PARAMETERS	S _{D1} = 0.131			
SEISMIC DESIGN CATEGORY	В			

BUILDING PARAMETERS			
SEISMIC FORCE RESISTING SYSTEM	LIGHT-FRAME WALLS WITH SHEAR PANELS OF ALL OTHER MATERIALS		
SEISMIC RESPONSE COEFFICIENTS	C _S = 0.101		
RESPONSE MODIFICATION FACTOR	R = 2.5		
SYSTEM OVERSTRENGTH FACTOR	Ω ₀ = 2.5		
DEFLECTION AMPLIFICATION FACTOR	C _d = 2.5		
ANALYSIS PROCEDURE USED	EQUIVALENT LATERAL FORCE		
DESIGN BASE SHEAR	V = 99.43 KIPS		

GENERAL:

STRUCTURAL DRAWINGS:

1. STRUCTURAL DRAWINGS ARE A PORTION OF THE CONTRACT DOCUMENTS AND ARE INTENDED TO BE USED WITH OTHER DRAWINGS, SPECIFICATIONS, AND DOCUMENTS ENUMERATED IN THE OWNER/CONTRACTOR AGREEMENT.

D

- REVIEW AND COORDINATE THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCY IDENTIFIED SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE.
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
- CODE REQUIREMENTS AND REFERENCED STANDARDS:
- ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES:
 2018 INTERNATIONAL BUILDING CODE (IBC) AND INTERNATIONAL EXISTING BUILDING CODE (IEBC) WITH LATEST REVISIONS REFERRED TO HERE AS "THE CODE", AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK AND THOSE CODES & STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
- ASTM SPECIFICATIONS AND REFERENCED STANDARDS ON THE DRAWINGS SHALL BE THE VERSION REFERENCED IN CHAPTER 35 OF THE CODE OR AS REFERENCED IN THE APPLICABLE DESIGN STANDARD.
 EXISTING CONDITIONS:
- VERIFY EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS PRIOR TO STARTING CONSTRUCTION. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR INCONSISTENCIES.
- INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, NOTIFY THE ARCHITECT IMMEDIATELY.

TEMPORARY CONDITIONS:

- THE CONTRACT DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION, INCLUDING BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER DO NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
- THE CONTRACT STRUCTURAL DRAWINGS SHOW THE BUILDING IN ITS FINAL INTENDED POSITION. MAKE PROVISIONS IN THE CONSTRUCTION SEQUENCING OF THE BUILDING TO TAKE INTO ACCOUNTS SHRINKAGE, CREEP, SHORTENING, THERMAL EXPANSION, ETC.
- SPREAD OUT CONSTRUCTION MATERIALS IF PLACED ON FRAMED ROOF OR FLOOR. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.

OTHER DRAWINGS:

- 1. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
- A. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED
- B. SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS UNLESS NOTED AND/OR DETAILED ON THE STRUCTURAL DRAWINGS
- C. SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, PITS, FLOOR DRAINS, SLOPES, DEPRESSED
- AREAS, CHANGES IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC D. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS EXCEPT AS SHOWN
- E. FLOOR AND ROOF FINISHES
- F. MISCELLANEOUS DRAINAGE AND WATERPROOFING
- G. ALL FIREPROOFING REQUIREMENTS INCLUDING FIREPROOFING OF STRUCTURAL STEEL
- H. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS
- 2. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
- A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED.B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
- C. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.
- D. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS.

SPECIAL INSPECTION AND TESTING:

- SPECIAL INSPECTION WILL BE PROVIDED BY A THIRD-PARTY TESTING AGENCY, RETAINED BY THE OWNER TO VERIFY COMPLIANCE WITH ITEMS SUMMERIZED IN THE STATEMENT OF SPECIAL INSPECTION.
- 2. CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE AND ACCESS FOR THE SPECIAL INSPECTOR TO PERFORM THESE INSPECTIONS.

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GENERAL STRUCTURAL NOTES

ROUGH CARPENTRY:

GENERAL:

1. COMPLY WITH THE REQUIREMENTS IN CHAPTER 23 OF THE CODE AND AF&PA'S WCD 1, "DETAILS FOR CONVENTIONAL WOOD FRAME CONSTRUCTION," UNLESS OTHERWISE INDICATED

PRODUCTS:

2. DIMENSIONAL LUMBER FRAMING:

A. SPECIES, GRADE, AND MOISTURE CONTENT NOTED BELOW:

DIMENSIONAL LUMBER					
USE	SPECIES	GRADE	MOISTURE CONTENT		
LUMBER 2" TO 4" THICK x 5" OR WIDER (JOISTS/RAFTERS)	DOUGLAS FIR-LARCH	#2 & BETTER	KD (15%)		
LUMBER 2" TO 3" THICK x 4" TO 6" WIDE (STUDS)	DOUGLAS FIR-LARCH	#2 & BETTER	KD (15%)		
LUMBER 5x5 AND GREATER (BEAMS)	DOUGLAS FIR-LARCH	#1	S-DRY (19%)		
LUMBER 5x5 AND GREATER (POSTS)	DOUGLAS FIR-LARCH	#1	S-DRY (19%)		

3. FIRE-RETARDANT-TREATED MATERIALS

A. APPLICATION: TREAT ALL LUMBER IN 3 HOUR FIRE RATED WALLS AND EXTERIOR WALLS IN TYPE III CONSTRUCTION. SEE ARCHITECTURAL DRAWINGS FOR FIRE RATED WALL LOCATIONS AND DETAILS.

4. FASTENERS:

A. WHERE ROUGH CARPENTRY IS EXPOSED TO WEATHER, IN GROUND CONTACT, PRESERVATIVE TREATED, FIRE RETARDANT TREATED, OR IN AREA OF HIGH RELATIVE HUMIDITY, PROVIDE FASTENERS WITH HOT-DIP ZINC COATING COMPLYING WITH ASTM A 153.

B. NAILS: ASTM F1667, COMMON TYPE.

5. WOOD CONNECTORS:

- A. PROVIDED BASIS OF DESIGN HANGERS, STRAPS, TIES, HOLD DOWNS, ETC, AS INDICATED ON THE DRAWINGS.
- B. WHERE CONNECTORS ARE IN EXPOSED, EXTERIOR APPLICATIONS OR IN CONTACT WITH PRESERVATIVE TREATED LUMBER, PROVIDE HOT-DIP GALVANIZED OR STAINLESS STEEL CONNECTORS.

EXECUTION:

- 1. WHERE POSTS OR MULTIPLE STUDS UNDER BEAMS OR HEADERS ARE CALLED FOR ON DRAWINGS THOSE POSTS OR MULTIPLE STUDS SHALL BE CARRIED TO THE FOUNDATLON/PODIUM LEVEL U.N.O.
- 2. JOIST BLOCKING AND BRIDGING:
- A. PROVIDE FULL DEPTH SOLID BLOCKING BETWEEN JOISTS OVER SUPPORT AND BELOW PARTITION WALLS. B. PROVIDE FULL DEPTH BRIDGING AT 8'-0" O.C. MAX, NOT MORE THAN 8'-0" FROM SUPPORT.
- 3. PROVIDE DOUBLE JOISTS UNDER NON-BEARING WALLS RUNNING PARALLEL TO JOISTS.
- 4. PROVIDE REQUIRED FIRE STOPPING, BACKING FOR INTERIOR FINISHES, NONBEARING WALLS, AND OTHER NON-STRUCTURAL FRAMING THAT ARE NOT SHOWN ON STRUCTURAL DRAWINGS.
- 5. SECURELY ATTACH ROUGH CARPENTRY WORK TO SUBSTRATE BY ANCHORING AND FASTENING AS INDICATED,
- COMPLYING WITH TABLE 2304.10.1 OF THE CODE AND THE ICC-ES REPORT FOR THE FASTENER.
- 6. INSTALL WOOD CONNECTORS PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND THE ICC-ES REPORT

GLUED-LAMINATED CONSTRUCTION:

GENERAL:

1. FABRICATE GLUED-LAMINATED (GLULAM) MEMBERS IN CONFORMANCE WITH ANSI STANDARD A190.1. "AMERICAN NATIONAL STANDARD FOR STRUCTURAL GLUED LAMINATED TIMBER"

PRODUCTS:

1. GLUED-LAMINATED TIMBER PRODUCTS

A. PROVIDE STRUCTURAL GLUED-LAMINATED TIMBER THAT COMPLIES WITH AITC A190.1 AND AITC 117 OR RESEARCH/EVALUATION REPORTS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION AS FOLLOWS:

GLUED-LAMINATED MEMBERS						
COMBINATION SYMBOL (SPECIES)	USE	FLEXURAL STRESS F_b (PSI)	MODULUS OF ELASTICITY	SHEAR STRESS F_v (PSI)		
24F-V4 (DF/DF)	SIMPLE SPAN	+2,400	1,800,000	265		
24F-V8 (DF/DF)	CONTINUOUS OR CANTILEVER	2,400	1,800,000	265		
L2 (DF/DF)	COLUMNS	1,300	1,800,000	230		

B. APPEARANCE GRADE:

a. ARCHITECTURAL WHEN EXPOSED TO VIEW

b. INDUSTRIAL WHEN CONCEALED FROM VIEW

EXECUTION:

1. DO NO FIELD NOTCH OR BOAR GLUED-LAMINATED MEMBERS UNLESS APPROVED BY ARCHITECT.

<u>GENERAL:</u>

- 1. DETAIL, FABRICATE, AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH THE FOLLOWING PROVISIONS:
- A. AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"
- B. AISC 360 "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS"
- C. AISC 341 "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS" FOR MEMBERS OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS)
- D. RCSC's "SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS"
- 2. COMPLY WITH THE FOLLOWING PROVISIONS FOR ALL WELDED JOINTS: A. AWS D1.1 - "STRUCTURAL STEEL WELDING CODE"
- B. AWS D1.8 "SEISMIC SUPPLEMENT" FOR CONNECTIONS OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS)
- 3. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM SIZE WELDS AS SPECIFIED IN AISC 360 SECTION J2.2b.

PRODUCTS:

1. ALL STRUCTURAL STEEL SHALL CONFORM TO THE ASTM DESIGNATION AS INDICATED BELOW (UNO):

TYPE	ASTM SPECIFICATION
ANGLES & CHANNELS	A36
PLATES & BARS	A36 A572, GR 50 (WHERE INDICATED)
HSS SECTIONS	A500 GR C A1085 (WHERE INDICATED)
COMMON/MACHINE BOLTS	A307, GR A

EXECUTION:

- 1. DO NOT CUT OR DAMAGE EXISTING REINFORCEMENT. PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED TO REINFORCED CONCRETE/MASONRY USING POST-INSTALLED ANCHORS, LOCATE ALL REINFORCEMENT AND CONFIRM CONSTRUCTABILTY OF ANCHOR LOCATIONS. SHOULD CONFLICTS WITH REINFORCEMENT OCCUR, SUBMIT ALTERNATE ANCHOR LOCATIONS AND REVISED STEEL FABRICATIONS TO ARCHITECT FOR REVIEW AND APPROVAL.
- 2. BACKUP BARS MAY REMAIN IN PLACE UNLESS NOTED IN DRAWINGS, OR WHEN ULTRASONIC TESTING INDICATES A POSSIBLE WELD DEFECT. IF DEFECTS ARE INDICATED BACKUP BAR IS TO BE REMOVED AND THE ROOT INSPECTED. IF IMPERFECTIONS ARE FOUND, THEY ARE TO BE REMOVED AND REPAIRED PER AWS REQUIREMENTS.

CAST-IN-PLACE CONCRETE:

CONCRETE PRODUCTION FACILITIES.

GENERAL:

1. COMPLY WITH THE PROVISIONS OF ACI 301 AND ACI 117, EXCEPT AS MODIFIED BY THESE CONTRACT DOCUMENTS. 2. MANUFACTURER QUALIFICATIONS: CERTIFIED ACCORDING TO NRMCA's "CERTIFICATION OF READY MIXED

PRODUCTS:

1. CONCRETE MIXTURES: PREPARE DESIGN MIXTURES FOR EACH TYPE AND STRENGTH OF CONCRETE, PROPORTIONED ON THE BASIS OF LABRATORY TRIAL MIXTURES OR FIELD TEST DATA OR BOTH, ACCORDING TO ACI 301.

CONCRETE MIXTURES					
LOCATIONS IN STRUCTURE	DESIGN STRENGTH	MAX UNIT WEIGHT	MAX W/C RATIO	EXPOSURE CATEGORIES	
ELEVATED SLAB	4,000 PSI	145 PCF	0.45	F0, S0, W0, C0	

EXECUTION:

- 1. OPENINGS, POCKETS, ETC., LARGER THAN 6" SHALL NOT BE PLACED IN CONCRETE SLABS, DECKS, OR WALLS UNLESS SPECIALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE ARCHITECT WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., LARGER THAN 6" NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- 2. PIPES AND CONDUITS EMBEDDED IN CONCRETE:
- A. PIPES LARGER THAN 1-1/2" DIAMETER SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY ARCHITECT. B. PIPES SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS.
- C. DO NOT STACK CONDUITS. SPACE EMBEDDED PIPES AND CONDUITS AT A MINIMUM OF AT A MINIMUM OF 3 DIAMETERS CLEAR FROM OTHER EMBEDDED PIPES/CONDUITS AND 1 1/2" CLEAR FROM REINFORCING BARS. D. NO CONDUITS SHALL BE PLACED IN CONCRETE FILL OVER METAL DECK.
- 3. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED WITHOUT ARCHITECT REVIEW AND
- 4. SCREED CONCRETE FILL OVER STEEL DECK TO A CONSTANT THICKNESS AS SPECIFIED IN THE DECKING SCHEDULE. DO NOT EXCEED THE SPECIFIED DECK THICKNESS BY MORE THAN 1/2".
- 5. ALL CONCRETE SURFACES AGAINST WHICH NEW CONCRETE IS TO BE PLACED SHALL BE CLEANED AND ROUGHENED TO 1/4" AMPLITUDE.

REINFORCING STEEL:

APPROVAL.

GENERAL:

- 1. DETAIL, FABRICATE, AND INSTALL REINFORCING IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 301, ACI 117, AND THE "CRSI MANUAL OF STANDARD PRACTICE." PRODUCTS:
- 1. REINFORCING STEEL: ASTM A615, GRADE 60, DEFORMED
- 2. WELDED WIRE REINFORCEMENT (WWR): ASTM A1064

EXECUTION:

1. PROVIDE THE MINIMUM CONCRETE COVER FOR REINFORCEMENT IN CAST-IN-PLACE CONCRETE (NON-PRESTRESSED) AS INDICATED IN THE TABLE BELOW.

MINIMUM CONCRETE CLEAR COVER				
LOCATION	BAR SIZE	CLEAR COVER		
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	ALL	3"		
	#6 & LARGER	2"		
CONCRETE EXPOSED TO EARTH OR WEATHER	#5 & SMALLER	1 1/2"		
SLABS, WALLS, OR JOISTS NOT EXPOSED TO	#14 & LARGER	1 1/2"		
WEATHER OR IN CONTACT WITH THE GROUND	#11 & SMALLER	3/4"		

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SYSTEM OR MATERIAL	IBC CODE		FREQUENCY	(NOTE 8)	_
	REFERENCE	REFERENCE STEEL	OBSERVE	PERFORM	
INSPECTION TASKS PRIOR TO WELDING: WELDING PROCEDURE SPECIFICATIONS					
(WPS) AVAILABLE MANUFACTURER CERTIFICATIONS FOR	-		-	X	
WELDING CONSUMABLES AVAILABLE MATERIAL IDENTIFICATION (TYPE/GRADE)	-		- X	X -	
	-		Х	-	
JOINT GEOMETRY): JOINT PREPARATION, DIMENSIONS (ALIGNMENT, ROOT OPENING,					
ROOT FACE, BEVEL), CLEANLINESS (CONDITION OF STEEL SURFACES),			х	-	
LOCATION), BACKING TYPE AND FIT (IF APPLICABLE)	1705.2	AISC 360: TB N5.4-1 AISC 360: N5.4			
CONFIGURATION AND FINISH OF ACCESS	-		×	_	
FIT-UP OF FILLET WELDS: DIMENSIONS	-				
(ALIGNMENT, GAPS AT ROOT), CLEANLINESS (CONDITION OF STEEL			x	_	
QUALITY AND LOCATION), BACKING TYPE AND FIT (IF APPLICABLE)					
CHECK WELDING EQUIPMENT	-			_	FABRICATOR OR
NSPECTION TASKS DURING WELDING:					
CONTROL AND HANDLING OF WELDING	-		X	-	
CONTROL	-		^	-	
NO WELDING OVER CRACKED TACK WELDS	-		X	-	
ENVIRONMENTAL CONDITIONS: WIND SPEED WITHIN LIMITS, PRECIPITATION AND TEMPERATURE			x	-	
	1705.2	AISC 360: TB N5.4-2			
EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS		AIGO 300. No.4	v		
TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED			~	-	
	-				
WELDING TECHNIQUES: INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETS			x	-	
QUALITY REQUIREMENTS					
WELDS CLEANED SIZE, LENGTH AND LOCATION OF WELDS	-		X -	- X	
WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD			-	X	
ARC STRIKES	1705.2	AISC 360: TB N5.4-3 AISC 360: N5.4	-	X	
K-AREA BACKING REMOVED AND WELD TABS			-	X	
REMOVED (IF REQUIRED) REPAIR ACTIVITIES	-		-	X X	
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER			-	x	
NSPECTION TASKS PRIOR TO BOLTING: MANUFACTURER'S CERTIFICATIONS			_	x	
FASTENERS MARKED IN ACCORDANCE	-		x	-	
PROPER FASTENERS SELECTED FOR THE					
JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)			x	-	
PROPER BOLTING PROCEDURE FOR JOINT	-		x	-	
CONNECTING ELEMENTS, INCLUDING THE	1705.2	AISC 360: TB N5.6-1			
CONDITION AND HOLE PREPARATION, IF SPECIFIED. MEET APPLICABLE	1705.2	AISC 360: N5.6	x	-	
REQUIREMENTS	-				
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED			x	_	
ASSEMBLIES AND METHODS USED					
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER	-		х	-	
COMPONENTS INSPECTION TASKS DURING BOLTING:					
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND			x	_	
WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED					
JOINT BROUGHT TO SNUG-TIGHT CONDITION PRIOR TO THE			x	-	
FASTENER COMPONENT NOT TURNED BY	1705.2	AISC 360: TB N5.6-2 AISC 360: N5.6			
ROTATING	-		X	-	
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC			× ×		
SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES					
NSPECTION TASKS AFTER BOLTING:	1		I	1	1
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	1705.2	AISC 360: TB N5.6-3	-	x	
NSPECTION OF STEEL ELEMENTS OF COMPOSITE	E CONSTRUCTIC	IN PRIOR TO CONCRET	E PLACEMENT:	V	
PLACEMENT AND INSTALLATION OF STEEL DECK	-	AISC 360. TR NE 1	-		
1EADED STUD ANCHORS	1705.2	AISC 360: N6.1			
STEEL ELEMENTS			-	×	
INSTALLATION OF OPEN WEB STEEL JOISTS AND	1705.2.3	-	-	x	INSPECTION R

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STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING

TIONS	TABLE 3	- REQU	IRED STR	RUCTUF	RAL 1	resting
EMARKS	SYSTEM OR MATERIAL	IBC CODE REFERENCE	TESTING CODE OR STANDARD REFERENCE		NCY PERIODIC	REMARKS
-	RADIOGRAPHIC (RT) MAGNETIC PARTICLE (MT) AND ULTRASONIC (UT) TESTING OF WELDS	AISC 360 N5.5	SIEEL RT- AWS D1.1: 6.16 MT- AWS D1.1: 6.14.4 UT- AWS D1.1: 6.13 &	PER DRAWINGS		ALL CJP WELDS IN MATERIALS 5/16" OR GREATER REQUIRE UT TESTING
-	PRE-CONSTRUCTION TESTING OF WELDED STUDS	1705.2.2	6.14.3 AWS D1.1: 7.7.1	EACH SIZE AND STUD EACH SHI	TYPE OF FT	-
*	PRE-INSTALLATION TESTING OF WELDED STUDS WELDED THROUGH DECKING	1705.2.2	AWS D1.1: 7.6	EACH STUD SIZE DECK GAUGE COMBINATION	= AND	-
	PRE-INSTALLATION VERIFICATION OF PRETENSIONED HIGH STRENGTH BOLTS	1705.2.1 AISC 360: TB N5.6-1	SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS, SECTION 7	EACH COMBINA DIAMETER, LENG GRADE, AND LO USED IN THE WO	TION OF GTH, T TO BE DRK	_
*	TABLE N2 - REQUIR	RED NO			SPE(CIAL INSPECTIONS
	SYSTEM OR MATERIAL	IBC CODE	TESTING CODE OR STANDARD	FREQUEN		REMARKS
R SHALL OBSERVE		REFERENCE	ARCHITECTU	CONTINUOUS	PERIODIC	
	INSTALLATION AND ANCHORAGE OF ACCESS	1704.3.2 1705.12.5.1	-	-	Х	
	INSTALLATION AND ANCHORAGE OF CLADDING AND INTERIOR/EXTERIOR VENEER WEIGHING MORE THAN 5 PSF IN BUILDINGS MORE THAN 30 FEET IN HEIGHT		-	-	x	
	ERECTION AND FASTENING OF INTERIOR NONBEARING WALLS WEIGHING MORE THAN 15 PSF IN BUILDINGS MORE THAN 30 FEET IN	1704.3.2 1705.12.5	-	-	x	REFERENCE ARCHITECTURAL FOR INFORMATION
	ERECTION AND FASTENING OF EXTERIOR NONBEARING WALLS IN BUILDINGS MORE THAN 30 FEET IN HEIGHT		-	-	х	
	INSTALLATION AND ANCHORAGE OF STORAGE RACKS	1704.3.2 1705.12 7	ASCE 7: 15.5.3	-	x	FOR RACKS OVER 8 FEET IN HEIGHT
	INSTALLATION OF OTHER SEISMIC SUPPORTS FOR DESIGNATED ARCHITECTURAL SYSTEMS AND THEIR COMPONENTS	1704.3.2 1705.12.5	-	-	х	REFERENCE ARCHITECTURAL FOR INFORMATION
		1	ELECTRIC	↓		
	ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY OR STANDBY POWER SYSTEMS ANCHORAGE OF ALL ELECTRICAL EQUIPMENT IN SEISMIC DESIGN CATEGORY E OR F ONLY	1704.3.2 1705.12.6	-	-	X X	
	INSTALLATION OF VIBRATION ISOLATION SYSTEMS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F WHERE THE CONSTRUCTION DOCUMENTS REQUIRE A NOMINAL CLEARANCE OF 0.25 INCHES OR LESS BETWEEN THE EQUIPMENT SUPPORT FRAME AND RESTRAINT	1705.12.6 1705.12.8	-	-	X	SEISMIC RESTRAINT OF ELECTRICAL COMPONENTS IS A CONTRACTOR RESPONSIBILITY AND IS LISTED HERE FOR INFORMATION ONLY. REFERENCE ELECTRICAL FOR FURTHER INFORMATION.
	INSTALLATION OF OTHER SEISMIC SUPPORTS FOR DESIGNATED ELECTRICAL SYSTEMS AND THEIR COMPONENTS	1705.12.6	-	-	Х	
		PROCESS	MECHANICAL	AND PLUM	BING	
	INSTALLATION AND ANCHORAGE OF PIPING SYSTEMS DESIGNED TO CARRY HAZARDOUS MATERIALS AND ASSOCIATED MECHANICAL UNITS	1704.3.2 1705.12.6	-	-	х	SEISMIC RESTRAINT OF PROCESS MECHANICAL COMPONENTS IS A CONTRACTOR
	INSTALLATION OF EQUIPMENT USING COMBUSTIBLE ENERGY SOURCES INSTALLATION OF OTHER SEISMIC SUPPORTS FOR DESIGNATED MECHANICAL SYSTEMS AND	1705.12.4	-	-	x	RESPONSIBILITY AND IS LISTED HERE FOR INFORMATION ONLY. REFERENCE MECHANICAL FOR FURTHER INFORMATION.
	THEIR COMPONENTS					
	INSTALLATION AND ANCHORAGE OF HVAC	1704.3.2				
	MATERIALS	1705.12.6 1705.12	-	-	X	
	INSTALLATION OF EQUIPMENT USING COMBUSTIBLE ENERGY SOURCES		-	-	х	
	INSTALLATION OF OTHER SEISMIC SUPPORTS FOR DESIGNATED MECHANICAL SYSTEMS AND THEIR COMPONENTS	1705.12.4	-	-	х	MECHANICAL COMPONENTS IS A CONTRACTOR RESPONSIBILITY AND IS LISTED HERE FOR INFORMATION ONLY. REFERENCE MECHANICAL FOR FURTHER INFORMATION
	INSTALLATION OF VIBRATION ISOLATION SYSTEMS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F WHERE THE CONSTRUCTION DOCUMENTS REQUIRE A	1705.12.6	-	-	Х	
	NUMINAL CLEARANCE OF 0.25 INCHES OR LESS BETWEEN THE EQUIPMENT SUPPORT FRAME AND RESTRAINT					
	TABLE N4 - REQUI	RED NC			TES	TING FOR SEISMIC
						DEMADIZO
		REFERENCE			NCY	KEIVIAKNO
	COMPONENT TESTING INCLUDING MOUNTING SYSTEMS OR ANCHORAGE IF CERTIFICATES OF	1705.13 1705.13.2	ASCE 7: 13.2		 X	SEISMIC RESTRAINT OF MECHANICAL AND ELECTRICAL COMPONENTS IS A CONTRACTOR RESPONSIBILITY AND IS LISTED HERE FOR
	COMPLIANCE ARE NOT AVAILABLE	1705.13.3				AND ELECTRICAL FOR FURTHER INFORMATION
RER FOR SPECIAL						

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REMARKS	
MATERIALS 5/16" OR E UT TESTING	
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SPECTIONS

TRAINT OF MECHANICAL AND COMPONENTS IS A CONTRACTOR ITY AND IS LISTED HERE FOR I ONLY. REFERENCE MECHANICAL CAL FOR FURTHER INFORMATION.

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STATEMENT OF SPECIAL INSPECTION AND TESTING NOTES:

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- 1. SPECIAL INSPECTIONS SHALL CONFORM TO CHAPTER 17 OF THE IBC AND THE REFERENCE CODES AND STANDARDS LISTED IN NOTE 2. REFER TO TABLES 1 AND 2 FOR SPECIAL INSPECTION AND TABLES 3 AND 4 FOR TESTING REQUIREMENTS.
- 2. REFERENCE CODES AND STANDARDS ARE THOSE REFERENCED IN CHAPTER 35 OF THE CODE.
- 3. SPECIAL INSPECTIONS AND ASSOCIATED TESTING SHALL BE PERFORMED BY AN APPROVED QUALIFIED TESTING AND INSPECTING AGENCY MEETING THE REQUIREMENTS OF ASTM E 329 (MATERIALS), ASTM D 3740 (SOILS), ASTM C 1077 (CONCRETE), AND ASTM E 543 (NON-DESTRUCTIVE). SPECIAL INSPECTORS SHALL BE CERTIFIED BY THE BUILDING OFFICIAL. WELDING INSPECTORS SHALL BE QUALIFIED PER SECTION 6.1.4.1.1 OF AWS D1.1.
- 4. THE SPECIAL INSPECTOR SHALL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION AND NOTED IN THE INSPECTION REPORTS. ISSUES REQUIRING IMMEDIATE CORRECTIVE ACTIONS OR ENGINEERING INPUT ARE TO BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY UPON DISCOVERY.
- THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, **STRUCTURAL** **ENGINEER** **ARCHITECT**, CONTRACTOR, AND OWNER. THE TESTING AND INSPECTING AGENCY SHALL SUBMIT A FINAL REPORT STATING THAT THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED AND IS IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THAT ALL DISCREPANCIES NOTED IN THE INSPECTION REPORTS HAVE BEEN CORRECTED.
- 6. CONTINUOUS SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.
- 7. WHERE PERIODIC INSPECTION IS ALLOWED IN ACCORDANCE WITH THE ANCHOR ICC/IAPMO EVALUATION REPORT, INSPECTIONS SHALL BE AS FOLLOWS: - FOR ALL ANCHORS, PRIOR TO CONCEALMENT, VERIFY: ANCHOR TYPE, ANCHOR DIMENSIONS, ANCHOR SPACING AND EDGE DISTANCE. - FOR EACH ANCHOR TYPE AND SIZE, INSPECTOR SHALL BE ONSITE TO CONTINUOUSLY INSPECT A MINIMUM OF THE FIRST 10 ANCHORS INSTALLED BY EACH INSTALLER FOR CONFORMANCE WITH ICC/IAPMO EVALUATION REPORT. PROVIDED ALL ANCHORS ARE INSTALLED CORRECTLY PER MANUFACTURER'S INSTRUCTIONS, PROVIDE PERIODIC INSPECTION ON A MINIMUM OF 10% OF THE NEXT 1000 ANCHORS BY EACH INSTALLER AND A MINIMUM OF 5% OF THE REMAINING ANCHORS BY EACH INSTALLER. INSPECTIONS SHALL OCCUR A MINIMUM OF ONCE PER WEEK AT A RANDOM TIME WHILE ANCHOR INSTALLATION IS ONGOING. ANY NON-COMPLIANCE ISSUES SHALL RESET THE INSPECTION REQUIREMENTS TO TEN (10) CONTINUOUS INSPECTIONS. NON-COMPLIANT ANCHORS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD FOR REVIEW AND SHALL BE BROUGHT INTO COMPLIANCE BY EITHER TESTING OR RE-INSTALLATION.
 - INSPECTION REPORTS SHALL IDENTIFY NAMES OF INSTALLERS. - SPECIAL INSPECTOR SHALL PROVIDE DOCUMENTATION AT THE END OF ANCHOR INSTALLATIONS STATING THAT THE MINIMUM NUMBER OF ANCHORS WERE INSPECTED.
- 8. OBSERVE: OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. PERFORM: PERFORM THESE TASKS FOR EACH ELEMENT.
- 9. INDICATED CONCRETE TESTING MEETS MINIMUM REQUIREMENTS FOR STRUCTURAL TESTING TO BE PROVIDED BY THE APPROVED QUALIFIED TESTING AND INSPECTING AGENCY. ADDITIONAL TESTING FOR CONSTRUCTION CONSIDERATIONS ARE NOT INDICATED AND SHALL BE DETERMINED BY THE CONTRACTOR AND PROVIDED AT CONTRACTOR'S EXPENSE.

CONTRACTOR RESPONSIBILITY:

FOR SEISMIC DESIGN CATEGORY C, D, E AND F STRUCTURES, THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION OF THE MAIN WIND OR SEISMIC FORCE-RESISTING SYSTEM, OR A WIND OR SEISMIC FORCE-RESISTING COMPONENT LISTED IN TABLES 2C, 3 AND 4. THE CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:

- 1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.
- OFFICIAL.
- OF THE REPORTS.
- 4. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

* CASTELLATED BEAM POST TESTING REQUIREMENTS:

- 1. PROVIDE ULTRASONIC TESTING ON THE GREATER OF 20% OF ALL WELDS OR FOUR WEB POST WELDS AT EACH CASTELLATED BEAM. THIS SHALL INCLUDE THE FIRST WEB POST AT EACH END OF THE BEAM AS WELL AS A MINIMUM OF TWO ADDITIONAL WEB POST WELDS SELECTED AT RANDOM FROM THE INTERIOR OF EACH BEAM SPAN. ULTRASONIC TESTING SHALL BE DONE IN ACCORDANCE WITH AWS D1.1 CRITERIA AND SHALL BE EVALUATED AGAINST ACCEPTANCE CRITERIA FOR STATICALLY LOADED STRUCTURES.
- 2. FREQUENCY OF ULTRASONIC TESTING MAY BE REDUCED TO TWO MINIMUM WEB POSTS AT EACH BEAM ONCE A MINIMUM OF TEN BEAMS HAVE BEEN TESTED WITH OUT REJECTABLE FLAWS. TESTS SHALL INCLUDE ONE OF THE END WEB POSTS AND ONE POST SELECTED AT RANDOM ON EACH SUBSEQUENT BEAM.
- 3. WHERE REJECTABLE FLAWS ARE ENCOUNTERED, THEY SHALL BE EVALUATED BY THE CELLULAR BEAM DESIGNER FOR DETERMINATION OF ANY NECESSARY REPAIRS, SUBJECT TO REVIEW AND APPROVAL BY STRUCTURAL ENGINEER.
- 4. WHERE REJECTABLE FLAWS ARE DETECTED AND REPAIRS ARE REQUIRED PER ITEM 3 ABOVE, 100% OF ALL WEB POST WELDS FOR THAT PARTICULAR BEAM SHALL BE TESTED, AND SAMPLING FREQUENCY FOR SUBSEQUENT BEAMS SHALL REVERT TO THE REQUIREMENTS STATED IN ITEM 1 UNTIL AN ACCEPTABLE PASS RATE CAN AGAIN BE ESTABLISHED AS NOTED IN ITEM 2.

STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING - CONTINUED

2. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING

3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND DISTRIBUTION

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	GENERAL PLAN NOTES:
	G1 REFERENCE DRAWINGS: S0.00 - ABBREVIATIONS, SYMBOLS AND SHEET INDE
	S1.0X - GENERAL STRUCTURAL NOTES S2.01 - ROOF FRAMING PLAN S3.0X - RETROFIT DETAILS
	G2 SEE SHEET S0.00 FOR TYPICAL SYMBOLS
	G3 CONTRACTOR SHALL FIELD VERIFY EXISTING STRUCTURAL CONDITIONS. IF ANY DISCREPANCY OCCURS BETWEEN EXISTING CONDITIONS AND PROPOSED ALTERATIONS, CONTRACTOR SHALL
	CONTACT ARCHITECT AND STRUCTURAL ENGINEER BEFORE PERFORMING ALTERATION WORK.
5	PLAN NOTES: S1 INDICATES AREA WHERE RETROFITS TO (F) ROOF FRAMING IS REQUIRED.
106'-2 3/8"	(E) ROOF FRAMING IS REQUIRED. (E) SHEATHING TO BE REMOVED FOR JOIST RETROFITS IN SHADED AREA. REPLACE WITH (N) 5/8" THICK OSB ROOF
	SHEATHING MATCH (E) EDGE & FIELD NAILING PATTERN, SIZE & SPACING.
	S2 (E) BEAM/JOIST, SEE SCHEDULE.
	S3 (E) POST, SEE SCHEDULE.
	S4 (N) BEAM/JOIST.
	S5 ■ (N) WOOD POST/COLUMN
	(E) WOOD JOIST SCHEDULE (E) GLULAM SCHEDULE
	TYPE SIZE TYPE SIZE J1 2x10 @ 16" OC GL1 GL 5 1/4"x9 3/4"
	J2 Zx12 @ 10 OC GL2 GL 5 1/4 x17 7/8 J3 2x4 @ 24" OC GL3 GL 5 1/4"x24 3/8"
	J5 20" TJL @ 32" OC GL 5 GL 5 I/4 x2 1 1/0 J6 22" T.II @ 32" OC GL 6 GL 11 2/9×5 1/4
	J6 Z2" TJL @ 32" OC GL6 GL 11 3/8x5 1/4 J7 24" TJH @ 48" OC GL7 GL 5 1/8"x21"
	J8 16" TJL @ 48" OC GL8 GL 5 1/8"x16 1/2" J9 12" TJI @ 32" OC GL9 GL 5 1/4"x14 5/8"
	(E) POST SCHEDULE
	P1 4x6
	P2 5 1/4x5 1/4 P3 5 1/4x3 5/8
	P4 3" PIPE P5 3x4 TUBE
	P6 2x4 P7 2x6
	KEY NOTES
	KEY VALUE KEYNOTE TEXT SISTER (E) 2x JOIST WITH (N) 2x PER 1/S3 00
	1 TYP BELOW (N) RTU UNITS.
	2 UNITS, SEE DETAIL 2/S3.00. 3 (N) 4x6 WOOD POSTS IN (E) WALL AT EA END
	4 (E) WOOD BEARING WALL BELOW, 2x4 @ 16" OC, UNO, VIF.
	5 (E) UNREINFORCED BRICK WALL BELOW, 8 1/4" THICK UNO,VIF.
	(E) SKYLIGHTS NOT BEING USED AS A (N) RTU DUCT PENETRATION
(E) (2) 2x10, TYP AT EXTERIOR	OPENING TO BE IN-FILLED AND COVERED, SEE DETAIL 5/S3.00 . 7 (N) RTU, MAX WEIGHT = 850 LBS.
J-(5) J-(4) J1, TYP, UNO, VIF	LOCATE RTU SUCH THAT IT IS SUPPORTED BY MINIMUM OF 3 TRUSSES BELOW,
	8 PROVIDE 2x6 BLOCKING ALIGNED BELOW ROOF CURB, BLOCKING TO ATTACH TO (E) TRUSS WITH SIMPSON LB26 TOP MOUNT
	HANGERS. 9 (E) (2) 2x10, AROUND (E) SKYLIGHTS OPENING, TYP, UNO.
e^2 e^3	10 (N) 2x10, ATTACH TO (E) or (N) 2x WITH SIMPSON LUS210 FACE MOUNT HANGER.
	11 (E) SKYLIGHT OPENING TO BE ENLARGED FOR (N) RTU DUCT PENETRATIONS, SEE
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(E) ROOF OPENING BELOW (E) MECH UNIT OPENING TO BE IN-FILLED AND COVERED,
4 6 10 TYP ALONG 6 10 6 THIS COLUMN LINE INE	SEE DETAIL 5/S3.00. SCREEN WALL FRAMING AND
	10 ATTACHMENT PER 9/S3.01. 14 WOOD POST CONNECTION AT BASE PER 1/S3.02
→ (E) (2) 2×10, TVP	(N) 2x10 WOOD BLOCKING BETWEEN (E) SISTERED JOISTS, EITHER SIDE OF
AT EXTERIOR	(N) HSS SCREEN WALL SUPPORT POST. (N) (2) 2x10, ATTACH TO (E) 2x WITH SIMPSON
ling	(N) OPENING IN (E) ROOF FOR RTU DUCT PENETRATIONS PER 3/\$3.02. (N) OPENING
	17 TO BE LOCATED BETWEEN (È) ROOF TRUSSES, DO NOT DAMAGE (E) ROOF TRUSSES. CONTRACTOR TO FIELD VERIFY
	LOCATION PRIOR TO CONSTRUCTION, NOTIFY ENGINEER OF ANY DISCREPANCIES OR INCONSISTENSIES.
	IN THE SW ADDITION BUILDING, (E) COOLING UNITS TO BE REMOVED AND ROOF 18 OPENINGS BELOW TO BE IN-FILLED AND
	COVERED, TYP WITH 5/8" SHEATHING, COORDINATE WITH ARCH DRAWINGS.
	(N) ROOF DRAINS, COORDINATE WITH ARCHITECTURAL & PLUMBING DRAWINGS.
	20 LOCATE BETWEEN (E) JOISTS/BEAMS. DO NOT DAMAGE (E) JOIST/BEAMS DURING PLACEMENT.
	21 SEE 6/S3.02 FOR STACKED MECHANICAL OPENING IN (E) BRICK WALL DETAIL.
	AND 6" OC (FIELD NAILING)

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			LEGE	ND				HVAC I) Doso drawings)	
ARRD	SYMBOL			SVMBOI	DESCRIPTION		SVMBOI				DESCRIPTION
ADDR.		DESCRIPTION	ADDR.			HWS	HWS-	HEATING WATER SUPPLY PIPING	ADDR.		
		- SECTION DESIGNATION		SLOPE	PITCH DOWN IN DIRECTION OF ARROW	HWR	— -HWR- —	HEATING WATER RETURN PIPING			RETURN DUCT UP / DOWN
		- SECTION CUT ON THIS SHEET				HTWS	HTWS-				
						HTWD					
	$\left(\begin{array}{c} X \\ X \end{array}\right)$								40540		
						CHWS	CHWS-		48F12	//	
	$\left(\begin{array}{c} X \\ 1 & 2 \end{array} \right)$	EQUIPMENT UNIT IDENTIFICATION EQUIPMENT UNIT NUMBER (UNIT SERVED - FLOOR -				CHWR		CHILLED WATER RETURN PIPING		ž	
	1-2-3	- SEQUENCE #)				D	D	COOLING COIL DRAIN PAN PIPING	BDD		BACKDRAFT DAMPER
	$(A) \xrightarrow{10}$	- DIFFUSER IDENTIFICATION - DIFFUSER NECK DIAMETER	PRV		PRESSURE REDUCING VALVE	CWS	CWS	CONDENSER WATER SUPPLY PIPING	TCD		TEMP. CONTROL DAMPER-OPPOSED BLADE
		- DIFFUSER CFM	PTRV		PRESSURE AND/OR TEMPERATURE RELIEF VALVE	CWR	— -CWR- —	CONDENSER WATER RETURN PIPING	TCD		TEMP. CONTROL DAMPER- PARALLEL BLADE
		LINEAR DIFFUSER IDENTIFICATION		M	ISOLATION VALVE (RE: SPEC FOR TYPE)	GHWS	GHWS	GLYCOL HEATING WATER SUPPLY PIPING	MVD		MANUAL VOLUME DAMPER
	E 80/24"L	LINEAR DIFFUSER LENGTH			VERTICAL PIPE VALVE	GHWR	— GHWR [.] —	GLYCOL HEATING WATER RETURN PIPING	MD		DUCT MOTORIZED DAMPER
	9999	- LINEAR DIFFUSER CFM	CV	- <u>N</u> -	CHECK VALVE	PCWS	-PCWS-	PROCESS CHILLED WATER SUPPLY PIPING			CONICAL FITTING WITH MVD
				₩	SOLENOID / MOTORIZED VALVE	PCWR	— PCWR· —	PROCESS CHILLED WATER RETURN PIPING		╘	SPIN-IN FITTING WITH MVD
	2'-6" FTR	EQUIPMENT UNIT IDENTIFICATION EQUIPMENT UNIT NUMBER			SOLENOID VALVE	LPS	LPS	LOW PRESSURE STEAM SUPPLY PIPING (0 - 15#)	FD	●ा=	DUCT FIRE DAMPER
		- RADIATOR ENCLOSURE LENGTH (OR W-W=WALL-TO-WALL)		—പ്പെ	HOSE END DRAIN VALVE	LPC	— -LPC- —	LOW PRESSURE CONDENSATE RETURN PIPING	FSD	�ਾ≕	COMBINATION DUCT FIRE/SMOKE DAMPER
	$\langle \rangle$	KEY NOTE REFERENCE	P/T	<u> </u>	PRESSURE / TEMPERATURE TAP	MPS	MPS	MEDIUM PRESSURE STEAM SUPPLY PIPING (16# - 60#)	SD	ør₽	DUCT SMOKE DAMPER
		KITCHEN/OWNER/MEDICAL EQUIPMENT REFERENCE			STRAINER	MPC	— -MPC- —	MEDIUM PRESSURE CONDENSATE RETURN PIPING		F	DUCT SMOKE DETECTOR
	\bigcirc	TYPICAL ROOM REFERENCE (TOP = RM #, BOTTOM = FLR)			STRAINER W/ BLOWDOWN	HPS	HPS	HIGH PRESSURE STEAM SUPPLY PIPING (61# - 125#)	DAD	M	DUCT ACCESS DOOR
	Č	POINT OF CONNECTION, NEW TO EXISTING			BRAIDED FLEXIBLE PIPE CONNECTOR	HPC	HPC	HIGH PRESSURE CONDENSATE RETURN PIPING		<u>с</u>	
		POINT OF DISCONNECTION, DEMO			DOUBLE-BOWL FLEXIBLE PIPE CONNECTOR	PC	PC	PUMPED CONDENSATE PIPING			TURNING VANES IN DUCT ELBOW
		DIRECTION OF FLOW IN PIPE		μ	THERMOMETER	BBD	BBD	BOILER BLOWDOWN PIPING	EP	₽	ELECTRIC-PNEUMATIC CONTROL VALVE
	[]	DUCTWORK, PIPING AND EQUIPMENT TO BE REMOVED		 Ø	PRESSURE GAUGE	BF	BF	BOILER FEED WATER PIPING	PE	− Q≎	PNEUMATIC-ELECTRIC CONTROL SWITCH
(E)		EXISTING			SIGHT GLASS	RL		REFRIGERANT LIQUID PIPING		(S) (ES)	WALL SWITCH / EMERGENCY SWITCH
(N)		NEW	C.A.P.		CEILING ACCESS PANEL	RS	— –RS— —	REFRIGERANT SUCTION PIPING		(TS)	TEMPERATURE SENSOR
(R)		RELOCATED			PUMP	RHG		REFRIGERANT HOT GAS PIPING		(T)	WALL MOUNTED THERMOSTAT
(F)		FUTURE	ТВ		THRUST BLOCK	TT	Ο ττ	THERMOSTATIC STEAM TRAP		<u> </u>	WALL MOUNTED CARBON DIOXIDE SENSOR
DIA	Ø	DIAMETER	MAV	∕	MANUAL AIR VENT	F&T	© 11 Ø1 59 T	FLOAT AND THERMOSTATIC STEAM TRAP		0	WALL MOUNTED OXYGEN SENSOR
WAD		WALL ACCESS DOOR	AAV		AUTOMATIC AIR VENT		Пирт	INVERTED BUCKET STEAM TRAP			HUMIDISTAT
NIC		NOT IN CONTRACT				TCV		(2 OR 3-WAY) TEMPERATURE CONTROL VALVE			UNIT MOUNTED THERMOSTAT
AFF											PRESSURE SENSOR / PRESSURE MONITOR
GC						BV					
MC						AFV					
EC										RISE	
										DROP	
						DPS					
						FS 			A.L.		
NC		NORMALLY ODEN				EJ			TODAD		
		NURWALLT UPEN			J	BJ		BALL JUIN EXPANSION COMPENSATOR	TOTAD		
						SA					
		DOUBLE/SINGLE L	INE DU	CT LEG	SEND	RA		RETURN AIR	SP IN WC		
		(Not all symbols listed below	v are used on t	hese drawings)	EA		EXHAUST AIR	EOMD		
SINGLE		DUBLE LINE SINGLE LINE DOUBLE LINE			JBLE LINE SINGLE LINE DOUBLE LINE	OA		OUTSIDE AIR	SCCR		SHORT CIRCUIT CURRENT RATING
				- FLEX RIGID -	$7 \nabla^{FLEX}$				SD		SUPPLY AIR DEVICE
	\backslash								RG		RETURN AIR DEVICE
	45° TEE (ROUN	ND) 90° TEE (RECTANGULAR)		FLEX DUCT	90° RADIUS ELBOW				RG		RETURN AIR DEVICE WITH SOUND BOOT
				. –					EG		EXHAUST AIR DEVICE
	\mathbf{i}		<u> </u>	L	-₩						
45	5° TEE (RECTANG	GULAR) 90° TEE (ROUND)	MAN	UAL VOLUME DAI	MPER 90° ELBOW	(BAS CONTROL L	EGEND	& NOT	ES
				_	$\neg \neg \neg \mid $	4000	0/400	(Not all symbols listed below	are used on th	ese drawings)	
						ABBR.	STMBOL				
	DUCT SPLIT	GRD RUNOUT	20 8	REDUCER	45° ELBOW	D.I.	D.I.	DIGITAL INPUT			
						D.O.	(D.0.)	DIGITAL OUTPUT			

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			LEGE	ND				(Not all symbols listed bal) Doso drawings	
	SYMPOL				DESCRIPTION		SVMPOL				DESCRIPTION
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	SECTION DES	IGNATION		SLOPE			1100				
	X-X SECTION CUT	ON THIS SHEET				HWR	— -HVVR- —				
				— <u>×</u>	PIPE ANCHOR	HTWS	HTWS	HIGH TEMPERATURE HEATING WATER SUPPLY PIPING			EXHAUST DUCT UP / DOWN
		NCE DESIGNATION			PIPE ALIGNMENT GUIDE	HTWR	— HTWR· —	HIGH TEMPERATURE HEATING WATER RETURN PIPING		<u> </u>	ROUND DUCT UP / ROUND DUCT DOWN
	VIEW REFERE	NCE ON THIS SHEET		 + +	UNION OR FLANGE	CHWS	CHWS	CHILLED WATER SUPPLY PIPING	48F12		FLAT OVAL DUCTWORK
					CONCENTRIC PIPE REDUCER	CHWR	— CHWR· —	CHILLED WATER RETURN PIPING			FLEXIBLE DUCT CONNECTION
	1-2-3 SEQUENCE #)	NIT NUMBER (UNIT SERVED - FLOOR -			ECCENTRIC PIPE REDUCER	D	D	COOLING COIL DRAIN PAN PIPING	BDD		BACKDRAFT DAMPER
			PRV		PRESSURE REDUCING VALVE	CWS	CWS	CONDENSER WATER SUPPLY PIPING	TCD		TEMP. CONTROL DAMPER-OPPOSED BLADE
	DIFFUSER CFI	A DIAMETER	PTRV		PRESSURE AND/OR TEMPERATURE RELIEF VALVE	CWR	— -CWR- —	CONDENSER WATER RETURN PIPING	TCD	~~~~	TEMP. CONTROL DAMPER- PARALLEL BLADE
	LINEAR DIFFU	SER IDENTIFICATION		—	ISOLATION VALVE (RE: SPEC FOR TYPE)	GHWS	—GHWS—	GLYCOL HEATING WATER SUPPLY PIPING	MVD		MANUAL VOLUME DAMPER
				A	VERTICAL PIPE VALVE	GHWR	— GHWR [,] —	GLYCOL HEATING WATER RETURN PIPING	MD		DUCT MOTORIZED DAMPER
	9999 LINEAR DIFFU	SER CFM	CV		CHECK VALVE	PCWS	PCWS	PROCESS CHILLED WATER SUPPLY PIPING			CONICAL FITTING WITH MVD
				&	SOLENOID / MOTORIZED VALVE	PCWR		PROCESS CHILLED WATER RETURN PIPING			SPIN-IN FITTING WITH MVD
	2'-6" FTR EQUIPMENT U	NIT IDENTIFICATION							ED		
	3'-6" 28 EQUIPMENT U	NIT NUMBER CLOSURE LENGTH (OR W-W=WALL-TO-WALL)		.1							
									FSD		
		-ERENCE	P/1		PRESSURE / TEMPERATURE TAP	MPS	MPS	MEDIUM PRESSURE STEAM SUPPLY PIPING (16# - 60#)	SD		
		IER/MEDICAL EQUIPMENT REFERENCE			STRAINER	MPC	— -MPC- —	MEDIUM PRESSURE CONDENSATE RETURN PIPING			DUCT SMOKE DETECTOR
	TYPICAL ROO	M REFERENCE (TOP = RM #, BOTTOM = FLR)			STRAINER W/ BLOWDOWN	HPS	HPS-	HIGH PRESSURE STEAM SUPPLY PIPING (61# - 125#)	DAD		DUCT ACCESS DOOR
	POINT OF COM	INECTION, NEW TO EXISTING			BRAIDED FLEXIBLE PIPE CONNECTOR	HPC	HPC	HIGH PRESSURE CONDENSATE RETURN PIPING		(rec)	TURNING VANES IN DUCT FLBOW
	POINT OF DIS	CONNECTION, DEMO		_∞_	DOUBLE-BOWL FLEXIBLE PIPE CONNECTOR	PC	PC	PUMPED CONDENSATE PIPING			
		FLOW IN PIPE		μ	THERMOMETER	BBD	BBD	BOILER BLOWDOWN PIPING	EP	무	ELECTRIC-PNEUMATIC CONTROL VALVE
	[] DUCTWORK, F	PIPING AND EQUIPMENT TO BE REMOVED		Q	PRESSURE GAUGE	BF	——BF——	BOILER FEED WATER PIPING	PE	Q [≈]	PNEUMATIC-ELECTRIC CONTROL SWITCH
(E)	EXISTING			— <u>o</u> —	SIGHT GLASS	RL		REFRIGERANT LIQUID PIPING		S ES	WALL SWITCH / EMERGENCY SWITCH
(N)	NEW		C.A.P.	M	CEILING ACCESS PANEL	RS	— —RS— —	REFRIGERANT SUCTION PIPING		TS	TEMPERATURE SENSOR
(R)	RELOCATED				PUMP	RHG	RHG	REFRIGERANT HOT GAS PIPING		 (T)	WALL MOUNTED THERMOSTAT
(F)	FUTURE		ТВ		THRUST BLOCK	ТТ	<u></u>	THERMOSTATIC STEAM TRAP		602	WALL MOUNTED CARBON DIOXIDE SENSOR
DIA	Ø DIAMETER		MAV		MANUAL AIR VENT	F&T	© 11 Ø1 гот	FLOAT AND THERMOSTATIC STEAM TRAP		0	WALL MOUNTED OXYGEN SENSOR
WAD	WALL ACCESS	SDOOR	AAV		AUTOMATIC AIR VENT	IBT		INVERTED BLICKET STEAM TRAP			HUMIDISTAT
NIC		PACT	,	<u>¥'</u>		ТСУ					
						100					
								VENIURIMETER			
GC	GENERAL CO					BV		CALIBRATED BALANCING VALVE			
MC	MECHANICAL	CONTRACTOR				AFV		AUTO FLOW VALVE			
EC	ELECTRICAL	CONTRACTOR				RSV	M	REFRIGERANT SERVICE VALVE	_		DUCT RISE
UNO	UNLESS NOTE	D OTHERWISE				DPS		DIFFERENTIAL PRESSURE SWITCH			DUCT DROP
С	COMMON					FS		FLOW SWITCH	A.L.		ACOUSTICALLY LINED DUCTWORK
NC	NORMALLY CL	OSED				EJ		EXPANSION JOINT	TCOAD		TEMPERATURE CONTROL OUTSIDE AIR DAMPER
NO	NORMALLY OF	PEN				BJ		BALL JOINT EXPANSION COMPENSATOR	TCRAD		TEMPERATURE CONTROL RETURN AIR DAMPER
						SA		SUPPLY AIR	TCEAD		TEMPERATURE CONTROL EXHAUST AIR DAMPER
						RA		RETURN AIR	SP IN WC		STATIC PRESSURE IN INCHES WATER COLUMN
		Not all symbols listed below	INE DU			EA		EXHAUST AIR	EOMD		END OF MAIN DRIP
SINGLE	LINE DOUBLE LINE		SINGLE L		JBLE LINE SINGLE LINE DOUBLE LINE	OA		OUTSIDE AIR	SCCR		SHORT CIRCUIT CURRENT RATING
			DIOID						SD		SUPPLY AIR DEVICE
	$\overline{}$								RG		RETURN AIR DEVICE
	\mathbf{i}								RG		RETURN AIR DEVICE WITH SOUND BOOT
	45° TEE (ROUND)	90° TEE (RECTANGULAR)		FLEX DUCT	90° RADIUS ELBOW				FG		
$\overline{}$						\square					
	\land \checkmark			L							
45°	° TEE (RECTANGULAR)	90° TEE (ROUND)	MANU	UAL VOLUME DAI	MPER 90° ELBOW			BAS CONTROL I	LEGEND	& NOT	ES
								(Not all symbols listed belo	w are used on the	ese drawings)	
				— L		ABBR.	SYMBOL	DESCRIPTION			
			20 8			וח	D.I.				
	DUGI OFLII		I	INEDUGEK	45 ELBOW	D.I.					
						D.O.	(D.0)	DIGITAL OUTPUT			

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	IECC INFORMATION ON CONSTRUCTION
THE FOLLC	WING INFORMATION IS PROVIDED TO ACCOMMODATE THE REQUIREMENTS FOR THE CODE
SECTION R	EFERENCED BELOW ON LINE ITEMS 4, 5, 6, 7, 8, & 9 FOR MECHANICAL SYSTEMS ON THIS PROJECT.
ECC 2015/2	2018-C103.2 INFORMATION ON CONSTRUCTION DOCUMENTS.
4. MECH	ANICAL SYSTEM DESIGN CRITERIA.
	NOT APPLICABLE TO THIS PROJECT.
HVAC I FUNDA	HEATING & COOLING LOADS ARE CALCULATED IN ACCORDANCE WITH THE ASHRAE AMENTALS HANDBOOK.
DES	IGN PROJECT ELEVATION
	3700 FEET ELEVATION FOR THE PROJECT SITE LOCATION.
	0.87 ALTITUDE CORRECTION FACTOR FOR HEAT TRANSFER CALCULATION REQUIRED.
DES	IGN TEMPERATURES
	95 °F DB OUTDOOR SUMMER 75 °F DB INDOOR SUMMER
	62.6 °F WB OUTDOOR SUMMER 30 %RH INDOOR SUMMER
	7 °F WB OUTDOOR WINTER 70 °F WB INDOOR WINTER
DES	
	X IMIC 2015/2018 CHAPTER 4
	ASHRAE STANDARD 62.1 VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY
l	IN LOWRISE RESIDENTIAL BUILDINGS
	ANSI/ASHRAE/ASHE STANDARD 170 VENTILATION OF HEALTH CARE FACILITIES
5 MECH	ANICAL AND SERVICE WATER HEATING SYSTEM AND FOLUPMENT TYPES SIZES AND EFFICIENCIES
×	
	TYPES, EQUIPMENT SIZES & EFFICIENCES.
6. ECONO	OMIZER DESCRIPTION.
	NOT APPLICABLE TO THIS PROJECT.
X	REFER TO ECONOMIZER SEQUENCES OF OPERATION IN SPECIFICATION SECTION 230993 OR ON DRAWINGS FOR DESCRIPTION OF AIR HANDLING & ROOFTOP UNITS.
7. EQUIP	MENT AND SYSTEM CONTROLS.
	NOT APPLICABLE TO THIS PROJECT.
Х	REFER TO SEQUENCES OF OPERATION IN SPECIFICATION SECTION 230993 OR ON THE DRAWINGS FOR EQUIPMENT & SYSTEM CONTROLS.
8. FAN M	OTOR HORSEPOWER (HP) AND CONTROLS.
X	NOT APPLICABLE TO THIS PROJECT.
	REFER TO EQUIPMENT SCHEDULES FOR FAN MOTOR HORSEPOWER (HP). REFER TO SEQUENCES OF OPERATION IN SPECIFICATION SECTION 230993 OR ON THE DRAWINGS FOR FAN CONTROLS.
9. DUCT	SEALING, DUCT AND PIPE INSULATION AND LOCATION.
	NOT APPLICABLE TO THIS PROJECT.
X	REFER TO SPECIFICATION SECTION 233113 MECH DUCTS FOR DUCT SEALING REQUIREMENTS. REFER TO SPECIFICATION SECTION 230700 INSULATION FOR MECHANICAL SYSTEMS FOR DUCT & PIPE INSULATION REQUIREMENTS FOR THE SYSTEMS SHOWN ON THE DRAWINGS.

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A.I. ANALOG INPUT A.I. <u>A.O.</u> A.O. ANALOG OUTPUT GENERAL NOTES: 1. THE TEMPERATURE CONTROL MATRIX, CONTROL DIAGRAMS, AND THE SEQUENCE OF OPERATIONS ARE ALL BINDING AND COMPLEMENTARY. IF THERE IS A DISCREPANCY BETWEEN THEM, THE WORST CASE SCENARIO SHALL BE USED FOR BIDDING PURPOSES. ADDITIONAL COSTS WILL NOT BE ALLOWED FOR DISCREPANCIES BETWEEN THE SPECIFICATIONS AND THE DRAWINGS. IN ADDITION TO THE DDC POINTS LISTED, THE CONTRACTOR SHALL CAREFULLY REVIEW ALL DRAWINGS, ALL SPECIFICATIONS, AND ALL SEQUENCES OF OPERATION. THE DOCUMENTS ARE ALL INCLUSIVE AND COMPLIMENTARY TO EACH OTHER. THE PROJECT SHALL INCLUDE ANY AND ALL NECESSARY DDC

POINTS TO SUPPORT THE REQUIREMENTS OF ALL THE DOCUMENTS. ALWAYS REFER TO DRAWINGS FOR QUANTITY. PROVIDE OPEN PROTOCOL COMMUNICATION WITH FACTORY SUPPLIED CONTROLLER. BAS CONTRACTOR SHALL COORDINATE STATUS LEVEL FOR EACH ALARM POINT WITH THE OWNER TO DETERMINE WHICH ONES REQUIRE IMMEDIATE ATTENTION.

IF THERE IS A DISCREPANCY BETWEEN ANY DOCUMENTATION, THE WORST CASE SCENARIO SHALL BE USED FOR BIDDING PURPOSES. ADDITIONAL COSTS WILL NOT BE ALLOWED FOR DISCREPANCIES BETWEEN THE SPECIFICATIONS AND DRAWINGS.

UNLESS NOTED OTHERWISE ALL SCHEDULED DATA IS LISTED AT ELEVATION 3700 FT

HVAC PLAN NOTES:

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- 1. SUPPLY AIR DUCTWORK SHALL EXTEND FROM EACH ROOFTOP UNIT TO THE SPACE SERVED. WHERE CEILING PLENUM SPACE IS LIMITED OR BLOCKED BY STRUCTURE, EXTERIOR ROOF-MOUNTED DUCTWORK MAY BE REQUIRED.
- 2. WHERE ROOFTOP UNITS SERVE A SINGLE ZONE, THE RETURN AIR DUCTWORK SHALL BE ROUTED FROM THE ROOFTOP UNIT TO THE SPACE SERVED. IF THE UNIT SERVES MULTIPLE ZONES, THE DUCTWORK SHALL EXTEND TO A COMMON LOCATION AMONGST THE SPACES SERVED. A. UNLESS EXISTING CONSTRUCTION PROHIBITS PLENUM RETURN (I.E.
- CONSISTS OF COMBUSTIBLE MATERIALS), THE CEILING PLENUMS SHALL BE UTILIZED FOR RETURN WITH TRANSFER AIR DUCTS FROM THE OCCUPIED SPACE OR FROM SPACE TO SPACE.
- B. IF THE CEILING PLENUM IS EXPOSED TO COMBUSTIBLE MATERIALS THEN THE RETURN SHALL BE FULLY DUCTED TO THE OCCUPIED SPACE AND CONTRACTOR TO NOTIFY ENGINEER. 3. SUPPLY AIR DUCTWORK SHALL BE LOW-PRESSURE.
- 4. UNLESS OTHERWISE NOTED, ALL SUPPLY AIR DUCTWORK SHALL BE EXTERNALLY WRAPPED TO MEET THE MINIMUM IECC INSULATION VALUES BASED UPON LOCATION (EXTERIOR, ATTIC, AND/OR INTERIOR) OF DUCTWORK. SUPPLY AIR DUCTWORK EXPOSED TO THE OCCUPIED SPACE DOES NOT REQUIRE INSULATION. INTERIOR RETURN AIR DUCTWORK SHALL NOT BE WRAPPED BUT EXTERIOR AND ATTIC RETURN DUCTWORK SHALL MEET MINIMUM INSULATION VALUES PER IECC. EXHAUST DUCTWORK DOES NOT
- REQUIRE INSULATION. 5. ALL EXPOSED DUCTWORK SHALL BE SPIRAL OR FLAT OVAL, WITH LABELS REMOVED, FREE OF IMPERFECTIONS, AND PREPPED FOR PAINTING. 6. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF PENETRATION DETAILS. 7. DUCT SIZES INDICATED ARE SHEET METAL SIZES. WHERE INTERNAL DUCT LINING IS PROVIDED, SHEET METAL SHALL NOT BE INCREASED IN SIZE. 8. ALL SUPPLY AIR DIFFUSERS ARE 4-WAY AIR PATTERN UNLESS SHOWN OTHERWISE.
- 9. DUCT SIZE OF BRANCH DUCT TO AIR DEVICE SHALL BE THE SAME SIZE AS NECK SIZE OF AIR DEVICE UNLESS NOTED OTHERWISE

GENERAL NOTES:

6

- 1. WORK INCLUDED IN THE CONTRACT IS DENOTED IN BOLD. EXISTING CONDITIONS TO REMAIN ARE DENOTED LIGHTLY.
- 2. A DETAILED METHOD OF PROCEDURE IS REQUIRED WHEN A CONSTRUCTION ACTIVITY AFFECTS THE SAFETY OF THE OCCUPANTS, OWNER'S EQUIPMENT OR VALUABLE CONTENTS OR ANY SYSTEM WHICH SUPPORTS THESE SYSTEMS; OR ESSENTIALLY AFFECTS THE BUILDING MANAGEMENT, OPERATIONS OR SECURITY.
- 3. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY WORK AND SHALL NOTIFY THE ENGINEER/ARCHITECT OF ANY DISCREPANCIES FOR RESOLUTION.
- 4. COORDINATE WORK WITH ALL TRADES.
- 5. CONTRACTOR IS RESPONSIBLE FOR SECURING AND WEATHERPROOFING ANY ROOF OPENING NOT COMPLETED DURING WORKING HOURS.
- 6. COORDINATE ALL DUCTWORK AND PIPING WITH EQUIPMENT, STRUCTURE, ETC.
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR DEACTIVATION OF ROOF-MOUNTED EQUIPMENT AND ASSOCIATED INDOOR EQUIPMENT. ONLY ONE UNIT SHALL BE TAKEN OUT OF SERVICE AT ANY TIME, WITH REMAINDER OF UNITS LEFT OPERATIONAL.
- 8. CONTRACTOR SHALL NOT SHUT DOWN / TAKE OUT OF SERVICE ANY SYSTEMS WITHOUT FIRST COORDINATING WITH OWNER AND PREPARING M.O.P.

DEMOLITION GENERAL NOTES:

- 1. THE SCOPE OF WORK SHALL INCLUDE REMOVAL OF THE EXISTING STEAM BOILERS, CONDENSATE PUMPS, WATER TREATMENT, STEAM PIPING DISTRIBUTION, CONVECTORS/RADIATORS, UNIT VENTILATORS, AND CONDENSATE RETURN. THE STEAM AND CONDENSATE PIPING SHALL BE DEMOLISHED AND REMOVED TO THE GREATEST EXTENT POSSIBLE. THE EXISTING PIPING IS GENERALLY ROUTED THROUGHOUT THE BUILDING VIA AN UNDERGROUND TUNNEL SYSTEM.
- 2. THE EXISTING STEAM HEATING AND ALL LOUVERS OR CONNECTIONS TO OUTDOORS SHALL BE INSULATED AND FILLED (RE:ARCH).
- 3. EXISTING SWAMP COOLERS SHALL BE DEMOLISHED INCLUDING ALL PIPING, HANGERS, SUPPORTS, ROOF CURBS, AND AIR DEVICES. WHERE PIPING PASSES THROUGH THE ROOF, THE ROOF SHALL BE REPAIRED.
- 4. EXISTING ITEMS TO REMAIN ARE DENOTED LIGHTLY UNLESS OTHERWISE NOTED. ALL ITEMS SHOWN DASHED & BOLD SHALL BE REMOVED UNLESS OTHERWISE NOTED.
- 5. CONTRACTOR SHALL NOT SHUT-OFF OR PUT-OUT OF SERVICE ANY SYSTEMS OR SERVICE WITHOUT FIRST COORDINATING WITH THE OWNER.
- 6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE AND UNDERSTAND THE EXTENT OF THE REMODEL WORK REQUIRED PRIOR TO BID. NO EXTRAS WILL BE ALLOWED FOR WORK REQUIRED TO ACHIEVE THE END RESULT AS INDICATED BY THE CONTRACT DOCUMENT.
- 7. CONTRACTOR SHALL DETERMINE AND COORDINATE THE EXACT EXTENT OF DEMOLITION TO FACILITATE ALL WORK INDICATED BY THE CONCEPTUAL DESIGN FOR BUDGETING.
- 8. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOR

RESOLUTION.

- 9. ALL ITEMS IDENTIFIED TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY UNLESS OTHERWISE NOTED. REMOVED ITEMS SHALL BE TURNED OVER TO THE OWNER UNLESS OTHERWISE NOTED AND STORED IN THE AREA DESIGNATED BY THE OWNER. REMOVE FROM SITE AND LEGALLY DISPOSE OF ALL ITEMS THE OWNER CHOOSES NOT TO ACCEPT.
- 10. WHERE EXISTING PIPING, T.C. TUBING/WIRING ETC. ARE TO BE REMOVED FROM WALLS WHICH ARE REMAINING, THE WALLS SHALL BE REPAIRED TO MATCH ORIGINAL CONDITIONS.
- 11. WHERE EXISTING PIPING TO BE REMOVED PASSES THROUGH FLOORS, THEY SHALL BE CUT BACK TO WITHIN CONCRETE AND FILLED WITH GROUT TO ACHIEVE A SMOOTH AND EVEN FINISH WITH CONCRETE SURFACE.
- 12. ALL EQUIPMENT SERVED BY STEAM IS TO BE DEMOLISHED. NOTIFY ENGINEERS IF ANY STEAM EQUIPMENT IS NOT SHOWN ON DEMO PLANS.

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DESIG),				INLE	T NC						0	UTDC	OR N	С					DIS	SCHA	RGE I	NC				
					(H	z)							(H	lz)							(H	lz)					
NAME	NO.	63	125	250	500	, 1K	2K	4K	8K	63	125	250	500	, 1K	2K	4K	8K	63	125	250	500	, 1K	2K	4K	8K	SONES	REMARKS
RTU	1	83.2	75.4	67.2	59.1	66.6	56	47.5	44.7	81.8	81.8	77	72.6	69.9	64.6	59.3	55.6	89.1	80.7	79.9	65.5	63.1	62.5	56	56.9		
RTU	2	80.5	77.4	72.2	62.3	64.9	59.6	50	46.4	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.2	82.2	75.9	70	65.9	67.4	60.6	58.6		
RTU	3	80.5	77.4	72.2	62.3	64.9	59.6	50	46.4	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.2	82.2	75.9	70	65.9	67.4	60.6	58.6		
RTU	4	80.5	77.4	72.2	62.3	64.9	59.6	50	46.4	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.2	82.2	75.9	70	65.9	67.4	60.6	58.6		
RTU	5	80.5	77.4	72.2	62.3	64.9	59.6	50	46.4	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.2	82.2	75.9	70	65.9	67.4	60.6	58.6		
RTU	6	80.5	77.4	72.2	62.3	64.9	59.6	50	46.4	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.2	82.2	75.9	70	65.9	67.4	60.6	58.6		
RTU	7	80.5	77.4	72.2	62.3	64.9	59.6	50	46.4	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.2	82.2	75.9	70	65.9	67.4	60.6	58.6		
RTU	8	80.5	77.4	72.2	62.3	64.9	59.6	50	46.4	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.2	82.2	75.9	70	65.9	67.4	60.6	58.6		
RTU	9	81.6	78.8	72.9	64.3	66.6	61.3	51.6	47.9	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.8	83	77	71.7	67.9	69.5	62.2	59.6		
RTU	10	81.6	78.8	72.9	64.3	66.6	61.3	51.6	47.9	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.8	83	77	71.7	67.9	69.5	62.2	59.6		
RTU	11	81.6	78.8	72.9	64.3	66.6	61.3	51.6	47.9	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.8	83	77	71.7	67.9	69.5	62.2	59.6		
RTU	12	81.6	78.8	72.9	64.3	66.6	61.3	51.6	47.9	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.8	83	77	71.7	67.9	69.5	62.2	59.6		
RTU	13	81.6	78.8	72.9	64.3	66.6	61.3	51.6	47.9	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.8	83	77	71.7	67.9	69.5	62.2	59.6		
RTU	14	81.6	78.8	72.9	64.3	66.6	61.3	51.6	47.9	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.8	83	77	71.7	67.9	69.5	62.2	59.6		
RTU	15	81.6	78.8	72.9	64.3	66.6	61.3	51.6	47.9	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.8	83	77	71.7	67.9	69.5	62.2	59.6		
RTU	16	80.6	77.6	72	63	65.7	65.7	50.5	47.1	85.6	84.7	80.5	76	72.4	68	62.8	59.3	91.3	81.4	75.4	71	66.9	68.6	61.4	59		
RTU	17	80.6	77.6	72	63	65.7	65.7	50.5	47.1	85.6	84.7	80.5	76	72.4	68	62.8	59.3	91.3	81.4	75.4	71	66.9	68.6	61.4	59		
RTU	18	80.6	77.6	72	63	65.7	65.7	50.5	47.1	85.6	84.7	80.5	76	72.4	68	62.8	59.3	91.3	81.4	75.4	71	66.9	68.6	61.4	59		
RTU	19	80.6	77.6	72	63	65.7	65.7	50.5	47.1	85.6	84.7	80.5	76	72.4	68	62.8	59.3	91.3	81.4	75.4	71	66.9	68.6	61.4	59		
RTU	20	81.4	78.9	72.6	64.7	67.2	67.2	51.9	48.4	85.6	84.7	80.5	76	72.4	68	62.8	59.3	91.9	82.2	76.4	72.6	68.7	70.6	62.9	59.9		
RTU	21	81.4	78.9	72.6	64.7	67.2	67.2	51.9	48.4	85.6	84.7	80.5	76	72.4	68	62.8	59.3	91.9	82.2	76.4	72.6	68.7	70.6	62.9	59.9		
RTU	22	81.4	78.9	72.6	64.7	67.2	67.2	51.9	48.4	85.6	84.7	80.5	76	72.4	68	62.8	59.3	91.9	82.2	76.4	72.6	68.7	70.6	62.9	59.9		
RTU	23	81.4	78.9	72.6	64.7	67.2	67.2	51.9	48.4	85.6	84.7	80.5	76	72.4	68	62.8	59.3	91.9	82.2	76.4	72.6	68.7	70.6	62.9	59.9		
RTU	24	81.8	79.6	73	65.6	67.9	67.9	52.6	49.1	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.2	82.7	76.9	73.3	69.6	71.5	63.6	60.3		
RTU	25	81.8	79.6	73	65.6	67.9	67.9	52.6	49.1	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.2	82.7	76.9	73.3	69.6	71.5	63.6	60.3		
RTU	26	81.8	79.6	73	65.6	67.9	67.9	52.6	49.1	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.2	82.7	76.9	73.3	69.6	71.5	63.6	60.3		
RTU	27	81.8	79.6	73	65.6	67.9	67.9	52.6	49.1	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.2	82.7	76.9	73.3	69.6	71.5	63.6	60.3		
RTU	28	81.8	79.6	73	65.6	67.9	67.9	52.6	49.1	85.6	84.7	80.5	76	72.4	68	62.8	59.3	92.2	82.7	76.9	73.3	69.6	71.5	63.6	60.3		
RTU	29	83.6	82.1	74.4	68.5	70.4	70.4	54.9	51.2	85.6	84.7	80.4	76	72.4	68	62.8	59.3	93.9	84.8	79.2	75.7	72.4	74.4	65.8	61.8		
RTU	30	83.6	82.1	74.4	68.5	70.4	70.4	54.9	51.2	85.6	84.7	80.4	76	72.4	68	62.8	59.3	93.9	84.8	79.2	75.7	72.4	74.4	65.8	61.8		
RTU	31	83.6	82.1	74.4	68.5	70.4	70.4	54.9	51.2	85.6	84.7	80.4	76	72.4	68	62.8	59.3	93.9	84.8	79.2	75.7	72.4	74.4	65.8	61.8		

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ROOF TOP UNIT SCHEDULE COMMON NOTES (APPLIES TO ALL UNITS):

A. REFER TO ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS, INCLUDING COORDINATION OF VOLTAGE, PHASE, SCCR, WIRE SIZES, AND OVERCURRENT PROTECTIVE DEVICES. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR MINIMUM FAULT CURRENT RATING THAT EACH UNIT SHALL EXCEED. UNIT NAMEPLATE SHALL INDICATE THE SHORT CIRCUIT CURRENT RATING.
B. UNIT HEIGHT DOES NOT INCLUDE HEIGHT OF CURB.
C. PROVIDE BASE RAIL OR CURB HEIGHT TO ACCOMMODATE CONDENSATE DRAIN P-TRAP.
D. PROVIDE SHAFT GROUNDING RINGS FOR EACH BEARING ON MOTORS POWERED THROUGH VARIABLE FREQUENCY DRIVES.
E. REFER TO SOUND DATA SCHEDULE FOR SOUND INFORMATION.
F. REFER TO MECHANICAL LEGENDS AND NOTES SHEET FOR PROJECT ELEVATION.
G. COOLING COIL PRESSURE DROP INCLUDED IN SIZING OF FAN.

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| RTU
 | 1 FACULTY ROOM AND WORKROOM | CARRIER | 48GEDM04A2 | A6-0A3A0 360 | 1,20 | 0.50

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Г 1686
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| RTU
 | 2 CLASSROOM | CARRIER | 48GEEM05A2 | A60A3A0 420 | 1,40 | 0.50

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 | 1 | 19 FC | DIREC | Г 1742
 | 0.50

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 | No SE

 | E SPEC 1
 | 300 0.40
 | 0.50 | 1 | FC | DIRECT
 | 0
 | 0 | 0.5
 | 0.5
 | 208 | 3 | 1 | No | SEE SPEC | 6 | 1400 | 38
 | 46 | 81 64 | 53 52 R | TU 2 | | | | | | | | | |
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 | 3 CLASSROOM | CARRIER | 48GEEM05A2 | 2A60A3A0 420 | 1,40 | 0.50

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 | E SPEC 1
 | 300 0.40
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 | 4 CLASSROOM | CARRIER | 48GEEM05A2 | 2A60A3A0 420 | 1,40 | 0.50

 | 0.64
 | 1 | 19 FC | DIREC | Г <u>1742</u>
 | 0.50

 | 1.96 | 1.96 | 1

 | No SE

 | E SPEC 1
 | 300 0.40
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 | 208 | 3 | 1 | No | SEE SPEC | 6 | 1400 | 38
 | 46 | 81 64 | 53 52 R | TU 4 | | | | | | | | | |
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 | E SPEC 1
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 | E SPEC 1
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| RTU
 | 15 CLASSROOM | CARRIER | 48GEEM05A2 | A6-0A3A0 480 | 1,60 | 0.50

 | 0.67
 | 1 | 19 FC | DIREC | Г <u>1872</u>
 | 0.62

 | 1.96 | 1.96 | 1

 | No SE

 | E SPEC 1
 | 500 0.40
 | 0.50 | 1 | FC | DIRECT
 | 0
 | 0 | 0.5
 | 0.5
 | 208 | 3 | 1 | No | SEE SPEC | 6 | 1600 | 40
 | 47 | 81 64 | 54 53 R | TU 15 | | | | | | | | | |
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| RIU
 | 16 CLASSROOM | | 48GEEM06A2 | A6-0A3A0 510 | 1,70 | 0.50

 | 0.66
 | 1 | 19 FC | | 1817
1817
 | 0.56

 | 2.43 | 2.43 | 1

 | No SE

 |
 | 600 0.40
600 0.40
 | 0.50 | 1 | FC | DIRECT
 | 0
 | 0 | 0.5
 | 0.5
 | 208 | 3 | 1 | No | | 7 | 1700 | 45
 | 55 | 81 64 | 53 52 R | 21U 16 | | | | | | | | | |
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| RTU
 | 18 CLASSROOM | CARRIER | 48GEEM00A2 | A6-0A3A0 510 | 1,70 | 0.50

 | 0.66
 | 1 | 19 FC
19 FC | DIREC | Г 1817
Г 1817
 | 0.56

 | 2.43 | 2.43 | 1

 | No SE

 | E SPEC 1
 | 600 0.40
 | 0.50 | 1 | FC | DIRECT
 | 0
 | 0 | 0.5
 | 0.5
 | 208 | 3 | 1 | No | SEE SPEC | 7 | 1700 | 45
 | 55 | 81 64 | 53 52 R | TU 18 | | | | | | | | | |
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| RTU
 | 19 CLASSROOM | CARRIER | 48GEEM06A2 | A6-0A3A0 510 | 1,70 | 0.50

 | 0.66
 | 1 | 19 FC | DIREC | Г 1817
 | 0.56

 | 2.43 | 2.43 | 1

 | No SE

 | E SPEC 1
 | 600 0.40
 | 0.50 | 1 | FC | DIRECT
 | 0
 | 0 | 0.5
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 | 208 | 3 | 1 | No | SEE SPEC | 7 | 1700 | 45
 | 55 | 81 64 | 53 52 R | TU 19 | | | | | | | | | |
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| RTU
 | 20 CLASSROOM | CARRIER | 48GEEM06A2 | A6-0A3A0 570 | 1,90 | 0.50

 | 0.69
 | 1 | 19 FC | DIREC | Г 1937
 | 0.68

 | 2.43 | 2.43 | 1

 | No SE

 | E SPEC 1
 | 800 0.40
 | 0.50 | 1 | FC | DIRECT
 | 0
 | 0 | 0.5
 | 0.5
 | 208 | 3 | 1 | No | SEE SPEC | 7 | 1900 | 47
 | 56 | 81 64 | 55 53 R | RTU 20 | | | | | | | | | |
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| RTU
 | 21 CLASSROOM | CARRIER | 48GEEM06A2 | A6-0A3A0 570 | 1,90 | 0.50

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 | 1 | 19 FC | DIREC | Г <u>1937</u>
 | 0.68

 | 2.43 | 2.43 | 1

 | No SE

 | E SPEC 1
 | 800 0.40
 | 0.50 | 1 | FC | DIRECT
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 | 22 CLASSROOM
23 CLASSROOM | CARRIER | 48GEEM06A2 | A6-0A3A0 570 | 1,90 | 0 0.50

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 | 1 | 19 FC
19 FC | | I 1937
Г 1937
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 | 2.43 | 2.43 | 1

 | NO SE

 | E SPEC 1
 | 800 0.40
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FC | DIRECT
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| RTU
 | 24 CLASSROOM | CARRIER | 48GEEM06A2 | A6-0A3A0 600 | 2,00 | 0.50

 | 0.03
 | 1 | 19 FC | DIREC | Г 1998
 | 0.00

 | 2.43 | 2.43 | 1

 | No SE

 | E SPEC 1
 | 900 0.40
 | 0.50 | 1 | FC | DIRECT
 | 0
 | 0 | 0.5
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 | 200 | 3 | 1 | No | SEE SPEC | 7 | 2000 | 49
 | 57 | 81 64 | 56 53 R | TU 24 | | | | | | | | | |
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| RTU
 | 25 CLASSROOM | CARRIER | 48GEEM06A2 | A6-0A3A0 600 | 2,00 | 0.50

 | 0.71
 | 1 | 19 FC | DIREC | Г 1998
 | 0.74

 | 2.43 | 2.43 | 1

 | No SE

 | E SPEC 1
 | 900 0.40
 | 0.50 | 1 | FC | DIRECT
 | 0
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 | 208 | 3 | 1 | No | SEE SPEC | 7 | 2000 | 49
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| RTU
 | 26 CLASSROOM | CARRIER | 48GEEM06A2 | A6-0A3A0 600 | 2,00 | 0.50

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 | 1 | 19 FC | DIREC | Г 1998
 | 0.74

 | 2.43 | 2.43 | 1

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 | E SPEC 1
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 | 0.50 | 1 | FC | DIRECT
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 | 27 CLASSROOM | CARRIER | 48GEEM06A2 | A6-0A3A0 600 | 2,00 | 0.50

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Г 1000
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 | 2.43 | 2.43 | 1

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 | E SPEC 1
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 | 28 CLASSROOM
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A5-0A3A0 660 | 2,00 | 0 0.50

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| RTU
 | 30 CAFETERIA/GYM, KITCHEN | CARRIER | 48GEFM06A2 | A5-0A3A0 660 | 2,20 | 0.50

 | 0.75
 | 1 | 19 FC | DIREC | Г <u>2198</u>
 | 0.99

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 | 0.50 | 1 | FC | DIRECT
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 | 58 | 81 64 | 57 54 R | TU 30 | | | | | | | | | |
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| RTU
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 | 0.75
 | 1 | 19 FC | DIREC | Г 2198
 | 0.99

 | 2.43 | 2.43 | 1

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 | E SPEC 2
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 | 0.50 | 1 | FC | DIRECT
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 | REFRIGERA
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 | | | | | | NAM

 | E NO.
 | AIR
CFM (IN | GAS
P.D. RAN
WC) | PRESS
IGE (IN
NC) | MBH OU
NPUT OU
AT S.L. A
 | MBH
UTPUT
T S.L.

 | MBH
OUTPUT | TURNDOWN
RATIO E |

 | TYPE

 | REFRIGERA
LOAD PER
CIRCUIT
(LBS)
 | NO. OF
CIRCUITS
 | NO. | COM
CONTROL
STAGES SC | PRESSORS
LOW STG
VARIABLE
ROLL (YES/NO) | HOT GAS
BYPASS
(YES/NO)
 | AIR-COOLEI
JTDOOR
IR TEMP NO
°F FA
 | D AHI | RI EFF
 | P
AREA MERV-A
(SF) RATING
 | RE-FILTER
All
CLEAN
(IN WC) | R P.D.
CHANGE OU
(IN WC) | UT
L (IN) |) W (IN) H (IN | OPER
WEIGHT
N) (LBS) V | /OLTAGE F | PHASE MC | CA M
 | MOCP | CONTROL | REMARKS NA | AME NO. | | | | | | | | | |
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 | E NO.
 | CFM AIR (IN 1200 0 | GAS
P.D. RAN
WC) | PRESS
IGE (IN
NC)
4-13 | MBH I NPUT OI AT S.L. A 67.0 110.0
 | MBH
UTPUT
T S.L.
54.3
88.0

 | MBH
OUTPUT
AT ELEV
45.4 | TURNDOWN
RATIO
2:1
2:1 | EAT °F LAT °F
51 91

 | TYPE
R-454B
R-454B

 | REFRIGERA
LOAD PER
CIRCUIT
(LBS)
8.50
8.00
 | NO. OF
CIRCUITS
 | NO. | CONTROL
STAGES SC
2
2 | PRESSORS
LOW STG
VARIABLE
ROLL (YES/NO)
No | HOT GAS
BYPASS
(YES/NO)
No
 | AIR-COOLEI
JTDOOR
IR TEMP
°F FA
95
95
 | D AHI 0. OF SEER 1 17.2 1 17.2 | RI EFF
R SEER2
16.8
16.8
 | AREA MERV-A
(SF) RATING
3 8
3 8
 | RE-FILTER
All
CLEAN
(IN WC)
0.06 | R P.D.
CHANGE OU
(IN WC)
0.20
0.20 | UT
L (IN)
74 | W (IN) H (IN
47 33 | OPER
WEIGHT
(LBS) V
760 | /OLTAGE F
208
208 | PHASE MC
3 NOTE | CA M
EA NC
 | | CONTROL
SEE SPEC | REMARKS NA | AME NO.
RTU 1 | | | | | | | | | |
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 | E NO.
 | CFM AIR
(IN 1200 0 1400 0 1400 0 | GAS
P.D. RAN
WC)
.03
.13
.13 | PRESS
IGE (IN
NC)
4-13
4-13
4-13 | MBH I NPUT OU AT S.L. A 67.0 110.0 110.0 110.0
 | MBH
UTPUT
T S.L.
54.3
88.0
88.0

 | MBH OUTPUT AT ELEV 45.4 73.9 73.9 | TURNDOWN
RATIO
2:1
2:1
2:1 | EAT °F LAT °F
51 91
51 107
51 107

 | TYPE
R-454B
R-454B
R-454B

 | REFRIGERA
LOAD PER
CIRCUIT
(LBS)
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8.00
8.00
 | NO. OF
CIRCUITS
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 | NO. | CONTROL
STAGES SC
2
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2 | PRESSORS
LOW STG
VARIABLE
ROLL (YES/NO)
No
No
No | HOT GAS
BYPASS
(YES/NO)
No
No
No
 | AIR-COOLEI
JTDOOR
R TEMP
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 | D AHI . OF SEER 1 17.2 1 17.2 1 17.2 1 17.2 | RI EFF A SEER2
A 16.8 16.8 16.8 16.8 | AREA
(SF)
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CHANGE OL
(IN WC)
0.20
0.20
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0.20 | UT
L (IN)
74
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74 | W (IN) H (IN)
47 33
47 33
47 33 | OPER
WEIGHT
(LBS) V 760 840 840 840 | /OLTAGE F
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208 | PHASE MC
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3 NOTE
3 NOTE | CA M
EA NC
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 | MOCP
IOTE A
IOTE A | CONTROL
SEE SPEC
SEE SPEC
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(IN 1200 0 1400 0 1400 0 1400 0 | GAS
P.D. RAN
WC)
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13 | PRESS JGE (IN NC) J 4-13 4-13 4-13 4-13 4-13 4-13 | MBH
NPUT I 67.0
 | MBH UTPUT T S.L. 54.3 88.0 88.0 88.0 88.0

 | MBH OUTPUT AT ELEV 45.4 73.9 73.9 73.9 73.9 | FURNDOWN
RATIO E 2:1 2:1 2:1 2:1 2:1 2:1 2:1 2:1 | EAT °F LAT °F
51 91
51 107
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51 107
51 107

 | TYPE R-454B R-454B R-454B R-454B R-454B

 | REFRIGERA
LOAD PER
CIRCUIT
(LBS)
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 | NT
NO. OF
CIRCUITS
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1 | CONTROL
STAGES SC
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2 | PRESSORS
LOW STG
VARIABLE
ROLL (YES/NO)
No
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No | HOT GAS
BYPASS
(YES/NO)
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 | AIR-COOLEI
JTDOOR
IR TEMP
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 | D AHI 0. OF SEER 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 | RI EFF 4 R SEER2 16.8
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AREA
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(IN WC)
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L (IN)
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WEIGHT
(LBS) V 760 440 840 840 840 840 | /OLTAGE F
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208 | PHASE MC 3 NOTE 3 NOTE 3 NOTE 3 NOTE 3 NOTE 3 NOTE | CA M
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 | MOCP
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IOTE A | CONTROL
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SEE SPEC | REMARKS NA
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 73.9 73.9 73.9 73.9 73.9 73.9</td> <td>TURNDOWN
RATIO E 2:1 2:1 2:1 2:1 2:1 2:1 2:1 2:1 2:1 2:1</td> <td>EAT °F LAT °F 51 91 51 107 51 107 51 107 51 107 51 107 51 107</td> <td>TYPE R-454B R-454B R-454B R-454B R-454B R-454B</td> <td>REFRIGERA LOAD PER
CIRCUIT
(LBS) 8.50 8.00 8.00 8.00 8.00 8.00</td> <td>NT
NO. OF
CIRCUITS
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STAGES SC
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2</td> <td>PRESSORS
LOW STG
VARIABLE
ROLL (YES/NO)
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No</td> <td>HOT GAS
BYPASS
(YES/NO)OU
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NoNo-No-No-No-No-No-No-</td> <td>AIR-COULED
JTDOOR
R TEMP
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(IN WC) Output 0.06 0.08 0.08 0.08 0.08 0.08 0.08 0.08</td> <td>R P.D.
CHANGE OU
(IN WC)
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L (IN)
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WEIGHT
(LBS) V 760 40 840 40 840 840 840 840</td> <td>/OLTAGE F 208 208 208 208 208 208 208 208 208 208</td> <td>PHASE MC 3 NOTE 3 NOTE</td> <td>CA M
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IOTE A
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R
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 | MBH OUTPUT AT ELEV 45.4 73.9 73.9 73.9 73.9 73.9 73.9 73.9
 | TURNDOWN
RATIO E 2:1 2:1 2:1 2:1 2:1 2:1 2:1 2:1 2:1 2:1 | EAT °F LAT °F 51 91 51 107 51 107 51 107 51 107 51 107 51 107

 | TYPE R-454B R-454B R-454B R-454B R-454B R-454B
 | REFRIGERA LOAD PER
CIRCUIT
(LBS) 8.50 8.00 8.00 8.00 8.00 8.00

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NO. OF
CIRCUITS
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 | CONTROL
STAGES SC
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LOW STG
VARIABLE
ROLL (YES/NO)
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 | AIR-COULED
JTDOOR
R TEMP
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 | D AHI . OF SEER 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 | RIEFF SEER2 16.8 16.8 16.8 16.8 16.8 16.8 16.8
 | AREA
(SF)
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(IN WC) Output 0.06 0.08 0.08 0.08 0.08 0.08 0.08 0.08
 | R P.D.
CHANGE OU
(IN WC)
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L (IN)
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74 | W (IN) H (IN) 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 | OPER
WEIGHT
(LBS) V 760 40 840 40 840 840 840 840 | /OLTAGE F 208 208 208 208 208 208 208 208 208 208 | PHASE MC 3 NOTE | CA M
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 | MOCP
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 | AIR
(IN 1200 0 1400 0 1400 0 1400 0 1400 0 1400 0 1400 0 1400 0 1400 0 | GAS
P.D. RAN
WC)
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.13 | PRESS
IGE (IN
NC) 4
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4-1 | MBH
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 | MBH UTPUT 54.3 88.0 88.0 88.0 88.0 88.0 88.0 88.0 88.0 88.0 88.0

 | MBH
OUTPUT
AT ELEV 1 45.4 | TURNDOWN
RATIO E 2:1 2:1 2:1 2:1 2:1 2:1 2:1 2:1 2:1 2:1 2:1 2:1 | EAT °F LAT °F 51 91 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107

 | TYPE R-454B

 | REFRIGERA
LOAD PER
CIRCUIT
(LBS)
8.50
8.00
8.00
8.00
8.00
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8.00
 | NT
NO. OF
CIRCUITS
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1
 | NO.
1
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1 | CONTROL
STAGES SC
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2
2
2 | PRESSORS
LOW STG
VARIABLE
ROLL (YES/NO)
No
No
No
No
No
No
No | HOT GAS
BYPASS
(YES/NO)
No
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No
No
 | AIR-COOLEI
JTDOOR
IR TEMP
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 | D AHI 0. OF SEER 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 | RI EFF R SEER2 16.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8
 | AREA
(SF)
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 | CLEAN O 0.06 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 | R P.D.
CHANGE OL
(IN WC)
0.20
0.20
0.20
0.20
0.20
0.20
0.20
0.2 | UT
L (IN)
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74 | W (IN) H (IN) 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 | OPER
WEIGHT
(LBS) V 760 40 840 40 840 40 840 40 840 40 840 40 840 40 840 40 | /OLTAGE F
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EA NC
EA NC
EA NC
EA NC
EA NC
 | MOCP
IOTE A
IOTE A
IOTE A
IOTE A
IOTE A | CONTROL
SEE SPEC
SEE SPEC
SEE SPEC
SEE SPEC
SEE SPEC | REMARKS NA
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P.D.
WC)
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13 | PRESS
IGE (IN
NC)
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4-13 | MBH
NPUT
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 | MBH PUTPUT 54.3 88.0 88.0 88.0 88.0 88.0 88.0 88.0 88.0 88.0 88.0 88.0 88.0 88.0 88.0 88.0

 | MBH OUTPUT 45.4 73.9 | FURNDOWN
RATIO E 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 | EAT °F LAT °F 51 91 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107

 | TYPE R-454B

 | REFRIGERA
LOAD PER
CIRCUIT
(LBS)
8.50
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 | NT
NO. OF
CIRCUITS
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1 | CONTROL
STAGES SC
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2
2 | PRESSORS
LOW STG
VARIABLE
ROLL (YES/NO)
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No
No
No
No
No
No
No
No | HOT GAS
BYPASS
(YES/NO)
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 | AIR-COOLEI
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 | D AHI . OF SEER 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 | RIEFF 4 SEER2 4 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1
 | P AREA
(SF) MERV-A
RATING 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8
 | CLEAN O CLEAN O 0.06 O 0.08 O | R P.D.
CHANGE OL
(IN WC)
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0.2 | UT
L (IN)
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74 | W (IN) H (IN) 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 | OPER
WEIGHT
(LBS) V 760 40 840 40 840 40 840 40 840 40 840 40 840 40 840 40 840 840 840 840 | /OLTAGE F 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 | PHASE MC 3 NOTE | CA M
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IOTE A
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IOTE A | CONTROL
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SEE SPEC
SEE SPEC
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SEE SPEC | REMARKS NA
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R | AME NO. TU 1 TU 2 TU 3 TU 4 TU 5 TU 6 TU 7 TU 8 | | | | | | | | | | | | |
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(IN 1200 0 1400 0 1400 0 1400 0 1400 0 1400 0 1400 0 1400 0 1400 0 1400 0 1400 0 1400 0 1400 0 1400 0 1400 0 | GAS
P.D. RAN
WC)
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13 | PRESS JGE (IN NC) JA 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 | MBH
NPUT
AT S.L. I
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 | MBH Image: MBH <td>MBH
OUTPUT
AT ELEV I 45.4 - 73.9 -</td> <td>TURNDOWN
RATIO E 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2</td> <td>EAT °F LAT °F 51 91 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107</td> <td>TYPE R-454B R-454B</td> <td>REFRIGERA
LOAD PER
CIRCUIT
(LBS)
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NO. OF
CIRCUITS
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1</td> <td>CONTROL
STAGES SC
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2</td> <td>PRESSORS
LOW STG
VARIABLE
ROLL (YES/NO)
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No</td> <td>HOT GAS
BYPASS
(YES/NO)
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No</td> <td>AIR-COULEI
JTDOOR
R TEMP
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95</td> <td>D AHI 0. OF SEER 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2</td> <td>RI EFF 4 R SEER2 4 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1</td> <td>P AREA
(SF) MERV-A
RATING 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8</td> <td>CLEAN C 0.06 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08</td> <td>R P.D.
CHANGE OL
(IN WC)
0.20
0.20
0.20
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0.2</td> <td>UT
L (IN)
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74</td> <td>W (IN) H (IN) 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33</td> <td>OPER
WEIGHT
(LBS) V/ 760 2 840 2 840 2 840 2 840 2 840 2 840 2 840 2 840 2 840 2 840 3 840 3 840 3 840 3 840 3 840 3 840 3</td> <td>/OLTAGE F 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208</td> <td>PHASE MC 3 NOTE 3 NOTE</td> <td>CA M
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SEE SPEC
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SEE SPEC</td> <td>REMARKS NA
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R</td> <td>AME NO. ITU 1 ITU 2 ITU 3 ITU 4 ITU 5 ITU 6 ITU 7 ITU 8 ITU 9</td>
 | MBH
OUTPUT
AT ELEV I 45.4 - 73.9 -
 | TURNDOWN
RATIO E 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 | EAT °F LAT °F 51 91 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107

 | TYPE R-454B
 | REFRIGERA
LOAD PER
CIRCUIT
(LBS)
8.50
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 | NT
NO. OF
CIRCUITS
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1 | CONTROL
STAGES SC
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2
 | PRESSORS
LOW STG
VARIABLE
ROLL (YES/NO)
No
No
No
No
No
No
No
No
No
No
No
No
No | HOT GAS
BYPASS
(YES/NO)
No
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 | AIR-COULEI
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R TEMP
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 | D AHI 0. OF SEER 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 1 17.2 | RI EFF 4 R SEER2 4 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1 16.8 1
 | P AREA
(SF) MERV-A
RATING 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 | CLEAN C 0.06 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 | R P.D.
CHANGE OL
(IN WC)
0.20
0.20
0.20
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L (IN)
74
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74 | W (IN) H (IN) 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 47 33 | OPER
WEIGHT
(LBS) V/ 760 2 840 2 840 2 840 2 840 2 840 2 840 2 840 2 840 2 840 2 840 3 840 3 840 3 840 3 840 3 840 3 840 3 | /OLTAGE F 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 | PHASE MC 3 NOTE | CA M
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 | AIR
(IN) 1200 0 1400 0 1400 0 1400 0 1400 0 1400 0 1400 0 1400 0 1400 0 1400 0 1400 0 1400 0 1400 0 1400 0 1600 0 | GAS
P.D. RAN
WC)
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13 | PRESS JGE (IN NC) JA 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 4-13 | MBH
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 | MBH Image: Second
 | MBH
OUTPUT
AT ELEV Image: Constraint of the second
descent of the second of th | FURNDOWN
RATIO E 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 | EAT °F LAT °F 51 91 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107
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 | TYPE R-454B

 | REFRIGERA
LOAD PER
CIRCUIT
(LBS)
8.50
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 | NT
NO. OF
CIRCUITS
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VARIABLE
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OUTPUT
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OUTPUT
AT ELEV Image: Constraint of the sector of the se | TURNDOWN
RATIO E 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 2:1 2 | EAT °F LAT °F 51 91 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 107 51 100 51 100 51 100 51 100 51 100 51 100 51 100 51 100 51 100 51 100 51 100 51 100 51 100

 | TYPE R-454B R-454B </td <td>REFRIGERA LOAD PER
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(SF) MERV-A
RATING 3 8 3</td> <td>CLEAN
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(IN WC) 0.20</td> <td>UT
L (IN)
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WEIGHT
(LBS) VI 760 2 840 2</td> <td>/OLTAGE F 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208</td> <td>PHASE MC 3 NOTE 3 NOTE</td> <td>CA Mi E A NC E A NC</td> <td>MOCP
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<td>REMARKS NA R R</td> <td>AME NO. TU 1 TU 2 TU 3 TU 4 TU 5 TU 6 TU 7 TU 8 TU 9 TU 10 TU 11 TU 12 TU 13 TU 14 TU 15</td> | REFRIGERA LOAD PER
CIRCUIT
(LBS) 8.50 8.00

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WEIGHT
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(IN WC) 0.20</td><td>L (IN) 74</td><td>W (IN) H (IN) 47 33 47 41 47 41 47 41 47 41 47 41 47 41 47 41 47 41 47 41 47 41 47</td><td>OPER
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(IN WC) 0.20</td><td>UT L (IN) 74</td><td>W (IN) H (IN) 47 33 47 41 47 41 47 41 47 41 47 41 47 41 47</td><td>OPER
WEIGHT
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 | AIR-COULEI JTDOOR NO P5 S 95 95 <t< td=""><td>AHI OF SEER 1 17.2 1<</td><td>R EFF 16.8 1</td><td>AREA
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(IN WC) 0.20</td><td>UT L (IN) 74</td><td>W (IN) H (IN) 47 33 47 41 47 41 47 41 47 41 47 41 47 41 47</td><td>OPER
WEIGHT
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CIRCUIT
(LBS) 8.50 8.00 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30</td><td>NT
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RATING 3 8 3 8 3 8 3 8
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(IN WC) CI
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(IN WC) 0.20</td><td>UT L (IN) 74</td><td>W (IN) H (IN) 47 33 47 41 47 41 47 41 47 41 47 41 47 41 47 41 47 41 47</td><td>OPER
WEIGHT
(LBS) V 760 2 840 2 880 2 880 2 880 2 880 2 880</td><td>/OLTAGE I 208 1 <</td><td>PHASE MC 3 NOTE 3 NOTE</td><td>A M EA NC EA</td><td>MOCP IOTE A IOTE A<!--</td--><td>CONTROL
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 | TYPE R-454B R-454B </td <td>REFRIGERA LOAD PER
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(SF) MERV-A
RATING 3 8</td><td>CLEAN
(IN WC) CI
0.06 0.08 0 0.08 0 0.08 0 0.08 0 0.08 0 0.08 0 0.08 0 0.08 0 0.08 0 0.08 0 0.08 0 0.08 0 0.10 0 0.10 0 0.10 0 0.10 0 0.10 0 0.10 0 0.10 0 0.10 0 0.07 0 0.07 0 0.07 0 0.07 0 0.09 0 0.09 0 0.09 0 0.09 0 0.09 0 0.09 0 0.09 0 0.09 0 0.09 0</td><td>R P.D. CHANGE OL
(IN WC) 0.20</td><td>UT L (IN) 74</td><td>W (IN) H (IN) 47 33 47 41 47 41 47 41 47 41 47 41 47 41 47 41 47 41 47</td><td>OPER
WEIGHT
(LBS) V 760 2 840 2 880 2 880 2 880 2 880 2 880</td><td>/OLTAGE I 208 1 208 1 208 1 208 1 208 1 208 1 208
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DES	IG.		
		AT	ELEV
NAME	NO.	CFM	AIR P.D (IN WC)
RTU	1	1200	0.03
RTU	2	1400	0.13
RTU	3	1400	0.13
RTU	4	1400	0.13
RTU	5	1400	0.13
RTU	6	1400	0.13
RTU	7	1400	0.13
RTU	8	1400	0.13
RTU	9	1600	0.19
RTU	10	1600	0.19
RTU	11	1600	0.19
RTU	12	1600	0.19
RTU	13	1600	0.19
RTU	14	1600	0.19
RTU	15	1600	0.19
RTU	16	1700	0.23
RTU	17	1700	0.23
RTU	18	1700	0.23
RTU	19	1700	0.23
RTU	20	1900	0.29
RTU	21	1900	0.29
RTU	22	1900	0.29
RTU	23	1900	0.29
RTU	24	2000	0.33
RTU	25	2000	0.33
RTU	26	2000	0.33
RTU	27	2000	0.33
RTU	28	2000	0.33
RTU	29	2200	0.47
RTU	30	2200	0.47
RTU	31	2200	0.47

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	REMAN GI DI	<u>RKS:</u> Beneral - Af Ductwork. <i>A</i> 1.	PLIES TO ALL A DAMPER LOCA	AIR DEVICES: M ATED AT THE AI	IANUAL VOLUME R DEVICE SHALL	DAMPERS S BE ACCEPT	SHALL BE AC ABLE WHEN	CEPTABLE IN I PERMITTED B					÷				ICE BY TH		
		General - Af Ductwork. <i>A</i> 1.	PLIES TO ALL A DAMPER LOCA	AIR DEVICES: N ATED AT THE AI	IANUAL VOLUME R DEVICE SHALL	DAMPERS S BE ACCEPT	SHALL BE AC ABLE WHEN	CEPTABLE IN I PERMITTED B									ICE BY TH		DINCTALLIN
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	DESI										BIOAOL								
	DESI																		
		IG.	FUNCT	ON		ST	′LE		MFR.	MODEL	FR/	AME STYLE	MODULE SIZ	ZE MA	TERIAL	F	INISH	REM	ARKS
	А		SIDEWALL S	UPPLY	ADJUSTABLE	VANES, DOU	BLE DEFLECTION	DN, 3/4" O.C.	PRICE	520		SURFACE	SEE PLANS	S	TEEL	V	VHITE		
	В	S	SIDEWALL RETUR	N, TRANSFER	F	IXED ANGLE V	ANES, 3/4" O.C		PRICE	530		SURFACE	SEE PLANS	S	TEEL	V	VHITE		
	С		CEILING SU	JPPLY	PLAQUE FACE F	FIXED PATTER	N, RECTANGU	AR DIFFUSER	PRICE	SPD	S	EE PLANS	24x24	S	TEEL	V	VHITE		
	D		CEILING RE	TURN	MODU	JLAR PERFOR	ATED FACE GF	ILLE	PRICE	PDDR	S	EE PLANS	SEE PLANS	S	TEEL	V	VHITE		
	E		SUPPLY, RI	ETURN	CONCENTRIC	SUPPLY/RETU	RN DIFFUSER	VITH PLENUM	RUSKIN	CDS-18	9	SURFACE	24X48	ALU	JMINUM	V	VHITE		
6. REFER TO 			ND NOTES SHE	ET FOR PROJEC	CT ELEVATION.														
INSTAL			IINGS					AT	FAN MOT	OR	AIR TI	EMP	ELECTR	ICAL	SI	ZE (INCH	ES)		
NO ST				MFR	MODEL	ĸw		AT	FAN MOT CFM (HIGH)						Siz	ZE (INCH	ES) H	OPER WEIGHT	REMARKS
NO. ST	LATION YLE I URFACE FROM		OUTLET	MFR	MODEL 6333D02	KW 2	ELECTRIC HE MBH	AT STAGES	FAN MOT CFM (HIGH) 250	OR NO. EA	AIR TI (°F)	EMP LAT (°F) 89.0	ELECTR VOLTAGE	ICAL PHASE	Si L 33.0	ZE (INCH D 9.0	ES) H 25.0	OPER WEIGHT (LBS) 100	REMARKS
O. ST 1 WALL S 2 WALL S	LATION YLE I URFACE FROM URFACE FROM	INLET NT BOTTOM NT BOTTOM	OUTLET FRONT TOP FRONT TOP	MFR MARKEL MARKEL	MODEL 6333D02 6333D03	KW 2 3	ELECTRIC HE MBH 6.8 10.2	STAGES	FAN MOT CFM (HIGH) 250 250	OR NO. EA 1	AIR TI 7 (°F)	EMP LAT (°F) 89.0 89.0	ELECTR VOLTAGE 208 208	ICAL PHASE 3 3	L 33.0 33.0	D 9.0 9.0	ES) H 25.0 25.0	OPER WEIGHT (LBS) 100 100	REMARKS 1,2,4,6 1,2,4.6

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STYLE	MFR.	MODEL	FRAME STYLE	MODULE SIZE	MATERIAL	FINISH	REMARKS
ES, DOUBLE DEFLECTION, 3/4" O.C.	PRICE	520	SURFACE	SEE PLANS	STEEL	WHITE	
ANGLE VANES, 3/4" O.C.	PRICE	530	SURFACE	SEE PLANS	STEEL	WHITE	
PATTERN, RECTANGULAR DIFFUSER	PRICE	SPD	SEE PLANS	24x24	STEEL	WHITE	
PERFORATED FACE GRILLE	PRICE	PDDR	SEE PLANS	SEE PLANS	STEEL	WHITE	
Y/RETURN DIFFUSER WITH PLENUM	RUSKIN	CDS-18	SURFACE	24X48	ALUMINUM	WHITE	

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100% CD

420 South Orcha (208) 343-366	TOR F S S O C I A T ard Street, Bois 53 • www.cator	RUMA E S , C O . e, ID 83705 ruma.com
205 N. 10th Street Suite 300 Boise, Idaho 83702 208.343.7523	Constitution Way, e 111 no Falls, ID 83402 .343.7523	EL ITECTS hummelarch.com
r o j e c t : FSD DISTR REPLACEME arrison Elementary Schor 00 Harrison St vin Falls, ID 83301	ICT WIDE NT	HVAC
heet: /IECHANICA	L SCHED	ULES
20608 1/15/2025 1/15/2025 1/15/2025 1/15/2025	Revisions:	
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Project Information Energy Code: Project Title: Location:

Climate Zone:

Project Type:

2018 IECC TFSD DISTRICT WIDE HVAC REPLACEMENT Twin Falls, Idaho 5b

Construction Site: HARRISON ELEMENTARY SCHOOL TWIN FALLS, ID 83301

Owner/Agent: TFSD

TWIN FALLS, ID

Alteration

Designer/Contractor: LILLY JOHNSON P.E. CATOR RUMA BOISE, ID 2083433663

Mechanical Systems List

- Quantity System Type & Description 27 RTU 1 THRU 27 (Single Zone):
 - Heating: 1 each Central Furnace, Gas, Capacity = 110 kBtu/h Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 57 kBtu/h, Air-Cooled Condenser, Air Economizer
 - Proposed Efficiency = 14.00 SEER, Required Efficiency: 14.00 SEER Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP method) : Passes
- Fans: FAN 1 Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade 3 RTU 28 THRU 30 (Single Zone):
- Heating: 1 each Central Furnace, Gas, Capacity = 150 kBtu/h
- Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 58 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 14.00 SEER, Required Efficiency: 14.00 SEER Fan System: FAN SYSTEM 2 -- Compliance (Motor nameplate HP method) : Passes
- Fans: FAN 2 Supply, Constant Volume, 2200 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade

Mechanical Compliance Statement

Lilly Johnson, P.E. Name - Title

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Signature

				ASHR	AE 15 7.3.1 (EQ. 7-3a)	CIRCUIT CHARGE PERMITTED	RCL						
		REF	RIGERANT				SPACE 1						
SYSTEM	CIRCUIT CHARGE (LB)	TYPE	CLASSIFICATION	REFRIGERANT CHARGE ALLOWED (ASHRAE 34 RCL LBS/1000 CF)	RCL PER CF	NAME	SQ FT	HEIGHT	ROOM CU FT	TOTAL VOLUME	OCC. FACTOR	EDVC (LBS)	COMPLIAN
RTU-1	8.5	4-454B	A2L	4.6	0.0046	FACULTY ROOM, WORKROOM, CLINIC, BATHROOM	1035	9	9315	9315	1	42.849	YES
				ASHR	AE 15 7.3.1 (EQ. 7-3a)	CIRCUIT CHARGE PERMITTED	RCL						
		REF	RIGERANT				SPACE 1						
SYSTEM	CIRCUIT CHARGE (LB)	TYPE	CLASSIFICATION	REFRIGERANT CHARGE ALLOWED (ASHRAE 34 RCL LBS/1000 CF)	RCL PER CF	NAME	SQ FT	HEIGHT	ROOM CU FT	TOTAL VOLUME	OCC. FACTOR	EDVC (LBS)	COMPLIAN
RTU-2 - RTU-15	8	4-454B	A2L	4.6	0.0046	CLASSROOM*	832	9.3	7737.6	7737.6	1	35.59296	YES
CALCULATION	DONE BASED ON	SMALLEST CLASS	SROOM SERVED B	BY UNIT									
				ASHR	AE 15 7.3.1 (EQ. 7-3a)	CIRCUIT CHARGE PERMITTED	RCL						r
		REF	RIGERANT				SPACE 1						
SYSTEM	CIRCUIT CHARGE (LB)	TYPE	CLASSIFICATION	REFRIGERANT CHARGE ALLOWED (ASHRAE 34 RCL LBS/1000 CF)	RCL PER CF	NAME	SQ FT	HEIGHT	ROOM CU FT	TOTAL VOLUME	OCC. FACTOR	EDVC (LBS)	COMPLIAN
RTU-16-RTU-28	10.3	4-454B	A2L	4.6	0.0046	CLASSROOM*	825	9.3	7672.5	7672.5	1	35.2935	YES
* CALCULATION I	DONE BASED ON	SMALLEST CLASS	SROOM SERVED B	BY UNIT									
				ASHR	AE 15 7.3.1 (EQ. 7-3a)	CIRCUIT CHARGE PERMITTED	RCL						
		REF	RIGERANT				SPACE 1		_				
SYSTEM	CIRCUIT CHARGE (LB)	TYPE	CLASSIFICATION	REFRIGERANT CHARGE ALLOWED (ASHRAE 34 RCL LBS/1000 CF)	RCL PER CF	NAME	SQ FT	HEIGHT	ROOM CU FT	TOTAL VOLUME	OCC. FACTOR	EDVC (LBS)	COMPLIAN
RTU-29	10.3	4-454B	A2L	4.6	0.0046	PLATFORM	627	13	8151	8151	1	37.4946	YES
				ASHR	AE 15 7.3.1 (EQ. 7-3a)	CIRCUIT CHARGE PERMITTED	RCL						
		REF	RIGERANT				SPACE 1	i	-				
SYSTEM	CIRCUIT CHARGE (LB)	TYPE	CLASSIFICATION	REFRIGERANT CHARGE ALLOWED (ASHRAE 34 RCL LBS/1000 CF)	RCL PER CF	NAME	SQ FT	HEIGHT	ROOM CU FT	TOTAL VOLUME	OCC. FACTOR	EDVC (LBS)	COMPLIAN
RTU-30	10.3	4-454B	A2L	4.6	0.0046	GYM/CAFETERIA AND KITCHEN	1857	13	24141	24141	1	111.0486	YES
						-							
				ASHR	AE 15 7.3.1 (EQ. 7-3a)	CIRCUIT CHARGE PERMITTED	RCL						
		REF	RIGERANT				SPACE 1						
SYSTEM	CIRCUIT CHARGE (LB)	TYPE	CLASSIFICATION	REFRIGERANT CHARGE ALLOWED (ASHRAE 34 RCL LBS/1000 CF)	RCL PER CF	NAME	SQ FT	HEIGHT	ROOM CU FT	TOTAL VOLUME	OCC. FACTOR	EDVC (LBS)	COMPLIAN
RTU-31	10.3	4-454B	A2L	4.6	0.0046	GYM/CAFETERIA	1232	16	19712	19712	1	90.6752	YES

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	3								4								
	R	TU 1		Οι	JTSI	DE A	IR VE	ENTIL		DN C	ALCUL	ATIC	ONS (OA)			
Normal Description Description <t< th=""><th>AIR S</th><th>SYSTEM TAG</th><th>ROOM OC</th><th>CUPANCY CLASSIF</th><th>ICATON</th><th></th><th>Code Basis</th><th>: IMC 2018</th><th>Z</th><th></th><th>TION 0.8</th><th>SY</th><th></th><th>ANT 100</th><th>% (</th><th>OUTSIDE AIR</th></t<>	AIR S	SYSTEM TAG	ROOM OC	CUPANCY CLASSIF	ICATON		Code Basis	: IMC 2018	Z		TION 0.8	SY		ANT 100	% (OUTSIDE AIR	
Image: Description Description <thdescription< th=""> <thdescription< th=""> <thd< td=""><td>ROOM NUMBER</td><td>ROOM NAME</td><td>PRIM</td><td>ARY</td><td>SECONDAR</td><td></td><td>E AREA SF) ZO PRIM AIR (</td><td>NE PEO OUTS CFM AIR R (CF</td><td>PLE ARE SIDE OUTSI ATE AIR RA M) (CFM/S</td><td>A DE ATE SF) OCCUF DENS #/1000</td><td>PANT HTY DSF PEOPLE</td><td>BREATHI ZONE OUTS AIR CFM</td><td>NG ZON SIDE OUTSI AIR C</td><td>E PRIMA IDE AIF FM FRACT</td><td>VRY IDE OUT (IDN AIR)</td><td>CFM ROOM SIDE OUTSIDE AIR CFM</td></thd<></thdescription<></thdescription<>	ROOM NUMBER	ROOM NAME	PRIM	ARY	SECONDAR		E AREA SF) ZO PRIM AIR (NE PEO OUTS CFM AIR R (CF	PLE ARE SIDE OUTSI ATE AIR RA M) (CFM/S	A DE ATE SF) OCCUF DENS #/1000	PANT HTY DSF PEOPLE	BREATHI ZONE OUTS AIR CFM	NG ZON SIDE OUTSI AIR C	E PRIMA IDE AIF FM FRACT	VRY IDE OUT (IDN AIR)	CFM ROOM SIDE OUTSIDE AIR CFM	
	18	WORK ROOM	WORKR	OOMS	COPY, PRINT	(/ 'ING 3	Az) (Vr 53 10	oz) (R) 00 5.	p) (Ra) 0 0.06) 5 4	(Pz)	(Vbz) 28	(Voz 35	<u>z) (Zp</u> 0.35) 3	7 21	
	53	CLINIC	OFFIC	CES			77 10	0 5	0 0.06	. 5	1	15	19	0.18	8	4 11	
And Building Product Pr		STOPAGE	RETAIL STORES,	SALES FLOORS			21 10		0 0.00			11	14	0.13	7		
			AND SHOWRO						0 0.12				14	0.13			
	20		OFFICES OFFICE SPACE 381 900 5.0 0.06 5 2 32 nentary Elementary HVAC lingrade Total Supply Air CEM = 1 200 Uncorrected Outside Uncorrected Outside			40	4	> 1 < 0A	0 23								
	Project:		mentary Elementary HVAC Upgrade Total Supply Air CFM = 1,200 Critical Zone Outside Air 0.252 System Ventilation			tion		outside Air Ir	ou) = 87	Sur	n 2 ted Outside	Air as					
			Critical Zone Outside Air Fraction (MAX Zp) = 0.353 System Ventilation Efficiency (Ev) = Corrected Outside Air Int Air, CFM (Volume)			/ot) =	,	% of Supply	y Air = 10.0%								
	RI	J 2,3,4		OUTS		AIR V	VENT	ILAT		CALC		ONS	(OA)				
	AIR S	SYSTEM TAG	ROOM OCCUPANC	Y CLASSIFICATON	Code	Basis: IM	C 2018	ZONE EFFECTIV	VENTILATION ENESS (Ez) =	0.8	SYSTEM DIV	OCCUPANT ERSITY (D) =	100%	SUMN	JE AIR IARY		
	ROOM NUMBER	ROOM NAME	PRIMARY	SECONDARY	ZONE AREA (SF) (Az)	ZONE PRIMARY AIR CFM (Vpz)	PEOPLE OUTSIDE AIR RATE (CFM) (Rp)	AREA OUTSIDE AIR RATE (CFM/SF) (Ra)	OCCUPANT DENSITY #/1000 SF	TOTAL PEOPLE (Pz)	BREATHING ZONE OUTSIDE AIR CFM (Vbz)	ZONE OUTSIDE AIR CFM (Voz)	PRIMARY OUTSIDE AIR FRACTION (Zp)	PEOPLE OUTSIDE AIR CFM	ROOM OUTSIDE AIR CFM		
	28, (10,12)	CLASSROOM	EDUCATION	CLASSROOMS (AGES 5-8)	835	1,400	10.0	0.12	25	21	309	386	0.276	209	100		
	Project:	TFSD Harrison Elen Upgrade	nentary HVAC	Total Supp	oly Air CFM =	1,400				Uncor	rected Outside Air take, CFM (Vou) =	309	<<<< <oa Sum</oa 	209	100		
	Location:	Twin Falls, Idaho		Critical Zone Fraction	e Outside Air n (MAX Zp) =	0.276	Syste Eff	m Ventilation iciency (Ev) =	0.945	Corrected	Outside Air Intake Air, CFM (Vot) =	327	Corrected O % of	utside Air as Supply Air =	23.4%		
AB OFTER 140 DOUG DOUGHANCY CLASSIFICATION Code Bases: MIC 2011 DEPENDENT CLASSIFICATION DEPENDENT CLASSIFI	RT	U 5,7		OUTS		AIR V	VENT	ILAT	ION (CALC	ULAT	ONS	(OA)				
NUMBER PROMINE PROMINE SECONDARY Particle All CPM Particle All CPM </td <td>AIR S</td> <td>SYSTEM TAG</td> <td>ROOM OCCUPANC</td> <td>Y CLASSIFICATON</td> <td>Code</td> <td>Basis: IM</td> <td>C 2018</td> <td>ZONE</td> <td>VENTILATION ENESS (Ez) =</td> <td>0.8</td> <td>SYSTEM</td> <td>OCCUPANT</td> <td>100%</td> <td></td> <td>DE AIR MARY</td> <td></td>	AIR S	SYSTEM TAG	ROOM OCCUPANC	Y CLASSIFICATON	Code	Basis: IM	C 2018	ZONE	VENTILATION ENESS (Ez) =	0.8	SYSTEM	OCCUPANT	100%		DE AIR MARY		
	ROOM NUMBER	ROOM NAME	PRIMARY	SECONDARY	ZONE AREA (SF)	ZONE PRIMARY AIR CFM	PEOPLE OUTSIDE AIR RATE (CFM)	AREA OUTSIDE AIR RATE (CFM/SF)	OCCUPANT DENSITY #/1000 SF	TOTAL PEOPLE	BREATHING ZONE OUTSIDE AIR CFM	ZONE OUTSIDE AIR CFM	PRIMARY OUTSIDE AIR FRACTION	PEOPLE OUTSIDE AIR CFM	ROOM OUTSIDE AIR CFM		
NUMBER CORRECCE VILLE CARACE CORRECCE Laboration Laboration <td>43, (45)</td> <td>CLASSROOM</td> <td>EDUCATION</td> <td></td> <td>(Az) 891</td> <td>(Vpz) 1,200</td> <td>(Rp) 10.0</td> <td>(Ra) 0.12</td> <td>25</td> <td>(Pz) 22</td> <td>(Vbz) 330</td> <td>(Voz) 412</td> <td>(Zp) 0.343</td> <td>223</td> <td>107</td> <td></td>	43, (45)	CLASSROOM	EDUCATION		(Az) 891	(Vpz) 1,200	(Rp) 10.0	(Ra) 0.12	25	(Pz) 22	(Vbz) 330	(Voz) 412	(Zp) 0.343	223	107		
Production Production Total Businetary Mode Total Businetary	17 (1/10th)	CORRIDOR	PUBLIC SPACES	CORRIDORS	826	200	0.0	0.06	0	0	50	62	0.310	0	50		
Lindent United market United markt United market United market </td <td>Project:</td> <td>TFSD Morningside</td> <td>Elementary HVAC</td> <td>Total Supp</td> <td>l bly Air CFM =</td> <td>1,400</td> <td></td> <td></td> <td></td> <td>Uncor</td> <td colspan="2">ected Outside Air 379</td> <td><<<<<0A Sum</td> <td>223</td> <td>156</td> <td></td>	Project:	TFSD Morningside	Elementary HVAC	Total Supp	l bly Air CFM =	1,400				Uncor	ected Outside Air 379		<<<<<0A Sum	223	156		
Name Distance Distance Distance Distance Distance Distance RTU 6,8 AR SYSTEM TAA NOO OCCUPANCY CLASSIFICATION Code Basis: MIC 2019 PERFERENCE NO NOTE NO	Location:	Twin Falls, Idaho		Critical Zone	e Outside Air	0.343	Syste	m Ventilation	0.927	Corrected	Outside Air Intake	409	Corrected Outside Air as % of Supply Air =		29.2%		
	RT	U 6.8		OUTS				ΊΙΔΤ		ΣΔΙ (IONS					
Instrume Presentation	AIR S	SYSTEM TAG	ROOM OCCUPANC		Code	Basis: IM	C 2018	ZONE	VENTILATION	0.8	SYSTEM	OCCUPANT	100%	OUTSIE			
de. (a) (LASSROOM EDUCATION	ROOM NUMBER	ROOM NAME	PRIMARY	SECONDARY	ZONE AREA (SF)	ZONE PRIMARY AIR CFM	PEOPLE OUTSIDE AIR RATE (CFM)	AREA OUTSIDE AIR RATE (CFM/SF)	ENESS (Ez) = OCCUPANT DENSITY #/1000 SF	TOTAL PEOPLE	DIV BREATHING ZONE OUTSIDE AIR CFM	ERSITY (D) = ZONE OUTSIDE AIR CFM	PRIMARY OUTSIDE AIR FRACTION	PEOPLE OUTSIDE AIR CFM	ROOM OUTSIDE AIR CFM		
Number Product Product Constructor Product Product <t< td=""><td>44, (46)</td><td>CLASSROOM</td><td>EDUCATION</td><td>CLASSROOMS</td><td>(Az) 886</td><td>(Vpz) 1,300</td><td>(Rp) 10.0</td><td>(Ra) 0.12</td><td>25</td><td>(Pz) 22</td><td>(Vbz) 328</td><td>(Voz) 410</td><td>(Zp) 0.315</td><td>222</td><td>106</td><td></td></t<>	44, (46)	CLASSROOM	EDUCATION	CLASSROOMS	(Az) 886	(Vpz) 1,300	(Rp) 10.0	(Ra) 0.12	25	(Pz) 22	(Vbz) 328	(Voz) 410	(Zp) 0.315	222	106		
Normality Understand Understa	17 (1/10th)	CORRIDOR	PUBLIC SPACES	(AGES 5-8)	826	100	0.0	0.06	0	0	50	62	0.620	0	50		
Location Tradie, CHA (Vice) Same Ormeted Database, Array Same Same Incartion Twin Falls, Idama Official Zono Ontaide Array Treation (MARZ 2)* 0.315 Bystem Ventiliation (Lasser) 0.846 Corrected Database, Array Same 0.827 RTU 9, 10, 11, 12 Arr SYSTEM TAG OOUT SIDE AIR VENTILIZATION 0.466 STOTEM COLUMNEST (VD)* 10/// N OUTSIDE AIR VENTILIZATION 0.41 STOTEM COLUMNEST (VD)* 10// N OUTSIDE AIR VENTILIZATION 0.4 STOTEM COLUMNEST (VD)* 10// N OUTSIDE AIR VENTILIZATION 0.4 STOTEM COLUMNEST (VD)* 10// N OUTSIDE AIR VENTILIZATION 0.4 STOTEM COLUMNEST (VD)* 10// N OUTSIDE AIR VENTILIZATION 0.4 STOTEM COLUMNEST (VD)* 10// N OUTSIDE AIR VENTILIZATION 0.0 0.11 0.2 0.11 0.	Proiect:	TFSD Harrison Elen	nentary HVAC	Total Supr	olv Air CFM =	1.400				Uncor	rected Outside Air	377	<<<<<0A	222	156		
Image: Entering (b): Entering (b): An CMM (b): Not deputy Mit RTU 9, 10, 11, 12 AR SYSTEM TAQ ROOM OCCUPANCY CLASSIFICATION Code Basis: IMC 2016 EPFECTIVENESS (b): 0.4 SYSTEM TAQ OUTSIDE AIR CHARGE ROOM NAME PRUMARY SECONDARY Code Basis: IMC 2016 EPFECTIVENESS (b): 0.4 SYSTEM TAQ OUTSIDE AIR CHARGE OUTSIDE AIR C	Location:	Twin Falls, Idaho		Critical Zone	e Outside Air	0.315	Syste	m Ventilation	0.954	In Corrected	take, CFM (Vou) = Outside Air Intake	395	Corrected O	utside Air as	28.2%		
NUMBER ROOM OCCUPANCY CLASSIFICATOR Code Basis: INC 2018 CONVENTION COLVENTION COLVENTION<	PTII	0 10 11 12															
Alk SYSTEM TAG ROUN DUCLIPARCY CLASSIFICATION Code Basis: IMC 2016 EFFECTIVENESS (E): 10.3 COUNDERSTY (D): 100% SUMMARY ROOM NUMBER ROOM NAME PRIMARY SECONDARY ZONE MEAN (SF) DOTEST DOTEST <td></td> <td>9, 10, 11, 12</td> <td></td> <td>0013</td> <td></td> <td>DE AIR</td> <td></td>		9, 10, 11, 12		0013											DE AIR		
28, (27,13,11) CLASSROOM EDUCATION CLASSROOMS (AGES 5-8) 832 1,380 10.0 0.12 25 21 308 335 0.279 208 100 17 (1/101) CORRIDOR PUBLIC SPACES CORRIDORS 826 220 0.0 0.06 0 0 50 62 0.282 0 50 Project: TSD Marrison Elementary HVAC Total Supply Air CFM = 1.600 Uncorrected Outside Air Instea Sur, CFM (Yol) 37 C<<<<<0A	ROOM NUMBER	ROOM NAME	PRIMARY	SECONDARY	ZONE AREA (SF)	ZONE PRIMARY AIR CFM	PEOPLE OUTSIDE AIR RATE (CFM)	EFFECTIV AREA OUTSIDE AIR RATE (CFM/SF)	ENESS (Ez) = OCCUPANT DENSITY #/1000 SF		BREATHING ZONE OUTSIDE AIR CFM	ERSITY (D) = ZONE OUTSIDE AIR CFM	PRIMARY OUTSIDE AIR FRACTION	SUMN PEOPLE OUTSIDE AIR CFM	ROOM OUTSIDE AIR CFM		
Number Product SPACES CORRIDORS B28 Z20 0.0 0.06 0 0 50 62 0.282 0.0 50 Project TSD Harrison Elementary HVAC Total Supply Air CFM = 1.600 0.066 0 0 50 62 0.282 0.0 50 Location: Twin Fails, Idaho Official Zone outside Air Fraction (MAX Zp) = 0.382 System Ventilation Efficiency (E) = 0.942 Corrected Outside Air make Air, CFM (Volu) = 377 < Corrected Outside Air make Air, CFM (Volu) = 377 Corrected Outside Air make Air, CFM (Volu) = 0 OUTSIDE OutSIDE Air, CFM (Volu) = 0 OUTSIDE OutSIDE Air, CFM (Volu) = 0 OUTSIDE OutSIDE Air, CFM (Volu) = 0 OUTSIDE Air, CFM (Volu) = 0 OUTSIDE Air, CFM (Volu) = 0	29, (27 13 14)	CLASSROOM	EDUCATION		(AZ) 832	(vpz) 1,380	(Kp) 10.0	(Ra) 0.12	25	(PZ) 21	(VDZ) 308	(voz) 385	(∠p) 0.279	208	100		
Project: TFSD Harrison Elementary HVAC Upgrade Total Supply Air CFM = 1,600 Incomposite of Utside Air Intek, CFM (You) = 357 CCCCC All and the arrison of Utside Air Not Supply Air CFM = 1,600 Location: Twin Falls, Idaho Critical Zono Outside Air Fraction (MAX Zp) = 0.282 System Vontiliation Efficiency (Ev) = 0.942 Corrected Outside Air Air, CFM (You) = 379 Corrected Outside Air Air, CFM (You) = 00% OUTSIDE OUTSIDE Air, CFM (You) = 00% OUTSIDE OUTSIDE Air, CFM (You) = 00% OUTSIDE Air, CFM Air, CFM (You) = 00% Corrected Outside Air Air	17 (1/10th)	CORRIDOR	PUBLIC SPACES	CORRIDORS	826	220	0.0	0.06	0	0	50	62	0.282	0	50		
Indust, of inf (Void) Indust, of inf (Void) <th colspa<="" td=""><td>Project:</td><td>TFSD Harrison Elen Upgrade</td><td>nentary HVAC</td><td>Total Supp</td><td>l bly Air CFM =</td><td>1,600</td><td></td><td></td><td></td><td>Uncor</td><td>rected Outside Air</td><td>357</td><td>< < < < OA Sum</td><td>208</td><td>149</td><td></td></th>	<td>Project:</td> <td>TFSD Harrison Elen Upgrade</td> <td>nentary HVAC</td> <td>Total Supp</td> <td>l bly Air CFM =</td> <td>1,600</td> <td></td> <td></td> <td></td> <td>Uncor</td> <td>rected Outside Air</td> <td>357</td> <td>< < < < OA Sum</td> <td>208</td> <td>149</td> <td></td>	Project:	TFSD Harrison Elen Upgrade	nentary HVAC	Total Supp	l bly Air CFM =	1,600				Uncor	rected Outside Air	357	< < < < OA Sum	208	149	
RTU 13 All system TAG OUTSIDE AIR VENTILATION CALCULATIONS (OA) ROOM AIR SYSTEM TAG ROOM OCCUPANCY CLASSIFICATON Code Basis: IMC 2018 ZONE VENTILATION 0.8 SYSTEM OCCUPANT OUTSIDE AIR DIVERSITY (D) = 100% OUTSIDE AIR SUMMARY ROOM NUMBER ROOM NAME PRIMARY SECONDARY Code Basis: IMC 2018 ZONE VENTILATION (SF) 0.8 SYSTEM OCCUPANT OUTSIDE AIR DIVERSITY (D) = 100% OUTSIDE AIR SUMMARY ROOM NUMBER ROOM NAME PRIMARY SECONDARY CONE AREA (SF) ZONE (SF) POPUL (CFM) AIR OFM OUTSIDE AIR OFM SYSTEM OCCUPANT TOTAL BREATHING AIR OFM ZONE AIR OFM POINTSIDE AIR OFM OUTSIDE AIR OFM POINTSIDE AIR OFM OUTSIDE AIR OFM OUTSIDE AIR OFM OUTSIDE AIR OFM AIR	Location:	Twin Falls, Idaho		Critical Zone	e Outside Air	0.282	Syste	m Ventilation	0.942	Corrected	Outside Air Intake	379	Corrected O % of	utside Air as Supply Air =	23.7%		
AIR SYSTEM TAG ROOM OCCUPANCY CLASSIFICATON Code Basis: IMC 2018 ZONE VENTILATION 0.8 SYSTEM OCCUPANT TOTAL 100% OUTSIDE AIR SUMMARY ROOM NAME PRIMARY SECONDARY CONE AREA (SF) ZONE POPLE PRIMARY OUTSIDE AIR AREA (SF) POPLE PRIMARY OUTSIDE AIR AREA (SF) POPLE PRIMARY OUTSIDE AIR AREA (SF) OUTSIDE AIR AREA (SF) OUTSIDE AIR AREA (SF) OUTSIDE AIR AREA (SF) OUTSIDE AIR AREA (CFM) OUTSIDE AIR AREA (CFM) OUTSIDE AIR CFM PRIMARY PEOPLE OUTSIDE AIR CFM PRIMARY PEOPLE OUTSIDE AIR CFM PRIMARY PEOPLE OUTSIDE AIR CFM PRIMARY PEOPLE OUTSIDE AIR CFM OUTSIDE AIR CFM PRIMARY PEOPLE OUTSIDE AIR CFM PRIMARY PEOPLE OUTSIDE AIR CFM PRIMARY PEOPLE OUTSIDE AIR CFM OUTSIDE AIR CFM PRIMARY PEOPLE OUTSIDE AIR CFM PRIMARY PEOPLE OUTSIDE AIR CFM OUTSIDE AIR CFM AIR CFM PRIMARY PEOPLE OUTSIDE AIR CFM AIR CFM	RI	TU 13						ΊΙ ΔΤ			ALCULATIONS						
NUMBER ROOM NAME PRIMARY SECONDARY ZONE AREA (SF) ZONE (SF) ZONE AIR CFM ZONE AIR CFM COCUPANT (CFM/SF) TOTAL AIR RATE (CFM/SF) BREATHING AIR CFM ZONE AIR CFM ROOM SAME PRIMARY SECONDARY ZONE AREA (SF) ZONE AIR CFM PEOPLE (CFM/SF) AREA (CFM/SF) OCCUPANT (CFM/SF) TOTAL PEOPLE BREATHING CONCUPANT (VDz) ZONE AIR CFM POINT AIR CFM PEOPLE AIR CFM PEOPLE AIR CFM PEOPLE AIR CFM PEOPLE AIR CFM POINTARY (CFM/SF) POINTARY #/1000 SF ZONE (VDz) (VDz) ZONE AIR CFM POINTARY AIR CFM POINTARY AIR CFM PEOPLE AIR CFM RATE AIR CFM AREA (CFM/SF) COCUPANT #/1000 SF TOTAL (PD) BREATHING CONCUPANT ZONE AIR CFM POINTARY AIR CFM POINTARY AIR CFM PEOPLE (CFM/SF) COCUPANT CONE (AGES 5-8) India Contains the contains		EYSTEM TAG				Basis [.] IM		ZONE	VENTILATION					OUTSIE	DE AIR		
Image: constraint of the state of	ROOM NUMBER	ROOM NAME	PRIMARY	SECONDARY	ZONE AREA (SF)	ZONE PRIMARY AIR CFM	PEOPLE OUTSIDE AIR RATE (CFM)	AREA OUTSIDE AIR RATE (CFM/SF)	ENESS (Ez) = OCCUPANT DENSITY #/1000 SF	TOTAL PEOPLE	DIV BREATHING ZONE OUTSIDE AIR CFM	ERSITY (D) = ZONE OUTSIDE AIR CFM	PRIMARY OUTSIDE AIR FRACTION	PEOPLE OUTSIDE AIR CFM	ROOM OUTSIDE AIR CFM		
Image: Note of the system o	6	CLASSROOM	EDUCATION	CLASSROOMS	(Az) 1,009	(Vpz) 1,600	(Rp) 10.0	(Ra) 0.12	25	(Pz) 25	(Vbz) 373	(Voz) 467	(Zp) 0.292	252	121		
Location: Twin Falls, Idaho Critical Zone Outside Air Fraction (MAX Zp) 0.292 System Ventilation Efficiency (Ev) 0.942 Corrected Outside Air Intake Air, CFM (Vot) 396 Corrected Outside Air as % of Supply Air 24.8% RTU 14 OUTSIDE AIR VENTILATION CALCULATIONS (OA) Room occupancy classification Code Basis: IMC 2018 ZONE VENTILATION EFFECTIVENESS (Ez) 0.8 SYSTEM OCCUPANT DIVERSITY (D) 100% OUTSIDE AIR SUMMARY ROOM NUMBER ROOM NAME PRIMARY SECONDARY ZONE AREA (SF) ZONE AIR CFM PEOPLE OUTSIDE AIR CFM AREA OUTSIDE AIR CFM OCCUPANT DIVERSITY (D) PRIMARY AIR CFM PEOPLE AIR CFM AREA OUTSIDE AIR CFM OCCUPANT DIVERSITY #/1000 SF PRIMARY AIR CFM PEOPLE AIR CFM AREA OUTSIDE AIR CFM OCCUPANT DIVERSITY (D) PEOPLE OUTSIDE AIR CFM AREA OUTSIDE AIR CFM OCCUPANT DIVERSITY (D) PEOPLE OUTSIDE AIR CFM ROOM OUTSIDE AIR CFM ROOM OUTSIDE AIR CFM ROOM AIR CFM PEOPLE OUTSIDE AIR CFM AREA OUTSIDE AIR CFM OCCUPANT DIVERSITY (D) PEOPLE OUTSIDE AIR CFM ROOM OUTSIDE AIR CFM ROOM OUTSIDE AIR CFM PEOPLE OUTSIDE AIR CFM ROOM OUTSIDE AIR CFM ROOM OUTSIDE AIR CFM AIR CFM AIR CFM	Project:	TFSD Harrison Elen	nentary HVAC	(AGES 5-8) Total Supr	bly Air CFM =	1,600		<u> </u>		Uncor	rected Outside Air	373	<<<<< 0A	252	121		
RTU 14 Com occupancy classification Code Basis: IMC 2018 ZONE VENTILATION CALCULATIONS (OA) Air, CFM (Vot) = 0.8 SYSTEM OCCUPANT (D) = 100% OUTSIDE AIR SYSTEM TAG ROOM OCCUPANCY CLASSIFICATION Code Basis: IMC 2018 ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8 SYSTEM OCCUPANT DIVERSITY (D) = 100% OUTSIDE AIR SUMMARY ROOM NAME PRIMARY SECONDARY ZONE AREA (SF) ZONE AREA (SF) AREA OUTSIDE AIR OCCUPANT (CHANT) PEOPLE (CEMART) TOTAL PEOPLE (CEMART) BREATHING ZONE OUTSIDE AIR OUTSIDE AIR CTM OUTSIDE AIR CTM AIR CFM PEOPLE AIR CFM AREA OUTSIDE (CEMART) TOTAL PEOPLE (CEMART) BREATHING ZONE OUTSIDE AIR CTM AIR CFM PEOPLE AIR CFM ROOM OUTSIDE AIR CFM ROOM OUTSIDE AIR CFM	Location:	Twin Falls, Idaho	- I otal Supply Air CFM = 1,600 Idaho Critical Zone Outside Air 0.292 System		m Ventilation	0.942	In Corrected	таке, CFM (Vou) = Outside Air Intake	396	Sum Corrected O							
AIR SYSTEM TAG ROOM OCCUPANCY CLASSIFICATON Code Basis: IMC 2018 ZONE VENTILATION EFFECTIVENESS (Ez) = 0.8 SYSTEM OCCUPANT DIVERSITY (D) = 100% OUTSIDE AIR SUMMARY ROOM NAME PRIMARY SECONDARY ZONE AREA (SF) PEOPLE (OUTSIDE AIR CFM (SF)) OCCUPANT (SF) TOTAL (SF) BREATHING (DUTSIDE AIR CFM (SF)) PEOPLE (SF) NUMBER DIVERSITY (D) = PRIMARY (SF) PEOPLE (SF) AREA (SF) OCCUPANT (SF) TOTAL (SF) BREATHING (SF) ZONE (SF) PEOPLE (SF) AREA (SF) OCCUPANT (SF) TOTAL (SF) BREATHING (SF) ZONE (SF) PEOPLE (SF) AREA (SF) OCCUPANT (SF) TOTAL (SF) BREATHING (SF) ZONE (SF) PEOPLE (SF) AREA (SF) OCCUPANT (SF) TOTAL (SF) BREATHING (SF) ZONE (SF) AR (SF) AREA (SF) OUTSIDE (SF) AREA (SF) OCCUPANT (SF) MIR (SF) AR (SF) AR (SF) AREA (SF) OCCUPANT (SF) TOTAL (SF) BREATHING (SF) ZONE (SF) AR	רס																
AIR STSTEIM TAG ROOM OCCUPANCT CLASSIFICATION Code Basis: INIC 2018 EFFECTIVENESS (E2) = 0.8 OTOLIN OCCUPANT 100% SUMMARY ROOM NUMBER ROOM NAME PRIMARY SECONDARY ZONE AREA (SF) ZONE AIR CFM PEOPLE PRIMARY AIR CFM OCCUPANT OUTSIDE AIR RATE (CFM) OCCUPANT DIVERSITY TOTAL PEOPLE BREATHING OUTSIDE AIR CFM ZONE AIR CFM PEOPLE OUTSIDE AIR CFM PEOPLE AIR CFM PEOPLE	Г \ 													OUTSI	DE AIR		
	AIR S ROOM NUMBER		RUUM OCCUPANC	SECONDARY	ZONE AREA (SF)	ZONE PRIMARY AIR CFM	PEOPLE OUTSIDE AIR RATE	AREA OUTSIDE AIR RATE	ENESS (Ez) = OCCUPANT DENSITY #/1000 SF	U.8 TOTAL PEOPLE	BREATHING ZONE OUTSIDE AIR CFM	ZONE OUTSIDE AIR CFM	100% PRIMARY OUTSIDE AIR	PEOPLE OUTSIDE AIR CFM	ROOM OUTSIDE AIR CFM		

CLASSROOMS (AGES 5-8) 1,006 1,400

Total Supply Air CFM = 1,600

Critical Zone Outside Air 0.332 Fraction (MAX Zp) =

Total Supply Air CFM = 1,600

Critical Zone Outside Air 0.249 Fraction (MAX Zp) =

826 200

CORRIDORS

SECONDARY

CLASSROOMS (AGES 5-8)

ROOM OCCUPANCY CLASSIFICATON

10.0

0.0 0.06

0.12

System Ventilation 0.931 Efficiency (Ev) =

OUTSIDE AIR VENTILATION CALCULATIONS (OA)

25

0

EDUCATION

PRIMARY

9

ROOM NUMBER

CLASSROOM

Project: TFSD Harrison Elementary HVAC Upgrade

ROOM NAME

30 CLASSROOM EDUCATION

Project: TFSD Harrison Elementary HVAC Upgrade

Location: Twin Falls, Idaho

RTU 15

AIR SYSTEM TAG

Location: Twin Falls, Idaho

_____ł____

17 (1/10th) CORRIDOR PUBLIC SPACES

Date

, 0		DE AIR MARY
ry De Ion	PEOPLE OUTSIDE AIR CFM	ROOM OUTSIDE AIR CFM
3	7	21
3	4	11
7	0	11
5	10	23

0.8	SYSTEM DIVE	OCCUPANT ERSITY (D) =	100%		DE AIR IARY
TOTAL PEOPLE	BREATHING ZONE OUTSIDE AIR CFM	ZONE OUTSIDE AIR CFM	PRIMARY OUTSIDE AIR FRACTION	PEOPLE OUTSIDE AIR CFM	ROOM OUTSIDE AIR CFM
(Pz)	(Vbz)	(Voz)	(Zp)		
25	372	465	0.332	252	121
0	50	62	0.310	0	50
Uncorr Int	ected Outside Air ake, CFM (Vou) =	422	< < < < < OA Sum	252	170
Corrected (Outside Air Intake Air, CFM (Vot) =	453	Corrected O % of	utside Air as Supply Air =	28.3%

-									(/		
N	Code	Basis: IMC	2018	ZONE EFFECTIVI	VENTILATION ENESS (Ez) =	0.8	SYSTEM DIVE	OCCUPANT ERSITY (D) =	100%	OUTSID SUMM	DE AIR IARY
	ZONE AREA (SF)	ZONE PRIMARY AIR CFM	PEOPLE OUTSIDE AIR RATE (CFM)	AREA OUTSIDE AIR RATE (CFM/SF)	OCCUPANT DENSITY #/1000 SF	TOTAL PEOPLE	BREATHING ZONE OUTSIDE AIR CFM	ZONE OUTSIDE AIR CFM	PRIMARY OUTSIDE AIR FRACTION	PEOPLE OUTSIDE AIR CFM	ROOM OUTSIDE AIR CFM
	(Az)	(Vpz)	(Rp)	(Ra)		(Pz)	(Vbz)	(Voz)	(Zp)		
;	860	1,600	10.0	0.12	25	22	318	398	0.249	215	103
ıpp	oly Air CFM =	1,600				Uncorr Int	ected Outside Air take, CFM (Vou) =	318	< < < < < OA Sum	215	103
one tio	e Outside Air n (MAX Zp) =	0.249	Syster	n Ventilation ciency (Ev) =	0.950	Corrected (Outside Air Intake Air, CFM (Vot) =	335	Corrected O % of	utside Air as Supply Air =	20.9%

RTU 16	5,17,18,19		OUTS		AIR V	/ENT	ILAT		CALC	ULATI	ONS	(OA)		
AIR SYS	STEM TAG		CLASSIFICATON	Code	Basis: IMC	2018	ZONE	VENTILATION ENESS (Ez) =	0.8	SYSTEM	OCCUPANT ERSITY (D) =	100%	OUTSI	DE AIR MARY
ROOM NUMBER	ROOM NAME	PRIMARY	SECONDARY	ZONE AREA (SF)	ZONE PRIMARY AIR CEM	PEOPLE OUTSIDE AIR RATE	AREA OUTSIDE AIR RATE	OCCUPANT DENSITY #/1000 SF	TOTAL PEOPLE	BREATHING ZONE OUTSIDE AIR CEM	ZONE OUTSIDE AIR CEM	PRIMARY OUTSIDE AIR	PEOPLE OUTSIDE AIR CEM	ROOM OUTSIDE AIR CEM
			CLASSBOOMS	(Az)	(Vpz)	(CFM) (Rp)	(CFM/SF) (Ra)		(Pz)	(Vbz)	(Voz)	(Zp)		
15, (16,17,18) Project:	CLASSROOM	EDUCATION lementary HVAC	(AGES 5-8)	860 Ny Air CFM =	1,700	10.0	0.12	25	22 Uncori	318 rected Outside Air	398 	0.234	215 	103
Location:	Twin Falls, Idaho		Critical Zone Fraction	e Outside Air n (MAX Zp) =	0.234	Syster Effi	m Ventilation ciency (Ev) =	0.953	In Corrected	take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) =	334	Corrected O % of	utside Air as Supply Air =	19.6%
RTU	20, 23		OUTS		AIR V	/ENT	ILAT			ULATI	ONS	(OA)		
AIR SYS	STEM TAG		CLASSIFICATON	Code	Basis: IMC	2018	ZONE	VENTILATION ENESS (Ez) =	0.8	SYSTEM	OCCUPANT ERSITY (D) =	100%	OUTSI	DE AIR MARY
ROOM	ROOM NAME	PRIMARY	SECONDARY	ZONE AREA	ZONE PRIMARY	PEOPLE OUTSIDE	AREA OUTSIDE	OCCUPANT DENSITY		BREATHING ZONE OUTSIDE	ZONE		PEOPLE OUTSIDE	ROOM
NUMBER				(SF) (Az)	AIR CFM (Vpz)	(CFM)	(CFM/SF) (Ra)	#/1000 SF	(Pz)	AIR CFM (Vbz)	AIR CFM (Voz)	FRACTION (Zp)	AIR CFM	AIR CFM
36, (37)	CLASSROOM	EDUCATION	CLASSROOMS (AGES 5-8)	848	1,680	10.0	0.12	25	21	314	392	0.233	212	102
17 (1/10th)	CORRIDOR	PUBLIC SPACES	CORRIDORS	826	220	0.0	0.06	0	0	50	62	0.282	0	50
Project:	Upgrade		Total Supp Critical Zone	e Outside Air	1,900	Syster	m Ventilation	0.910	Corrected	take, CFM (Vou) =	363	Sum Corrected O	212 utside Air as	21.0%
BT				n (MAX Zp) =			ciency (Ev) =		<u> </u> ראי ר	Air, CFM (Vot) =			Supply Air =	21.070
	STEM TAG				Basis: IMC					SYSTEM	OCCUPANT		OUTSIL	
ROOM					ZONE	PEOPLE		ENESS (Ez) =	тота	DIVI	ERSITY (D) = ZONE	PRIMARY	PEOPLE	
NUMBER	ROOM NAME	PRIMARY	SECONDARY	(SF)	PRIMARY AIR CFM	AIR RATE (CFM)	AIR RATE (CFM/SF)	DENSITY #/1000 SF	PEOPLE			AIR FRACTION	OUTSIDE AIR CFM	OUTSIDE AIR CFM
8	CLASSROOM	EDUCATION	CLASSROOMS (AGES 5-8)	(AZ) 1,067	(vpz) 1,900	(Rp) 10.0	(Ra) 0.12	25	(PZ) 27	(VDZ) 395	(Voz) 493	(2p) 0.260	267	128
Project:	TFSD Harrison E Upgrade	lementary HVAC	Total Supp	bly Air CFM =	1,900				Uncori In	rected Outside Air take, CFM (Vou) =	395	< < < < < OA Sum	267	128
Location:	Twin Falls, Idaho		Critical Zone Fraction	e Outside Air n (MAX Zp) =	0.260	Syster Effi	m Ventilation ciency (Ev) =	0.948	Corrected	Outside Air Intake Air, CFM (Vot) =	416	Corrected O % of	utside Air as Supply Air =	21.9%
RT	U 22		OUTS	IDE /	AIR V	/ENT	ILAT	ION (CALC	ULATI	ONS	(OA)		
AIR SYS	STEM TAG	ROOM OCCUPANO	Y CLASSIFICATON	Code	Basis: IMC	2018	ZONE EFFECTIV	VENTILATION ENESS (Ez) =	0.8	SYSTEM DIVI	OCCUPANT ERSITY (D) =	100%	OUTSIE SUMN	DE AIR MARY
ROOM NUMBER	ROOM NAME	PRIMARY	SECONDARY	ZONE AREA (SF)	ZONE PRIMARY AIR CFM	PEOPLE OUTSIDE AIR RATE (CFM)	AREA OUTSIDE AIR RATE (CFM/SF)	OCCUPANT DENSITY #/1000 SF	TOTAL PEOPLE	BREATHING ZONE OUTSIDE AIR CFM	ZONE OUTSIDE AIR CFM	PRIMARY OUTSIDE AIR FRACTION	PEOPLE OUTSIDE AIR CFM	ROOM OUTSIDE AIR CFM
31	CLASSROOM	EDUCATION	CLASSROOMS (AGES 5-8)	(Az) 865	(Vpz) 2,000	(Rp) 10.0	(Ra) 0.12	25	(Pz) 22	(Vbz) 320	(Voz) 400	(Zp) 0.200	216	104
Project:	TFSD Harrison E Upgrade	lementary HVAC	Total Supp	bly Air CFM =	2,000				Uncori In	rected Outside Air take, CFM (Vou) =	320	< < < < < OA Sum	216	104
Location:	Twin Falls, Idaho		Critical Zone Fraction	e Outside Air n (MAX Zp) =	0.200	Syster Effi	m Ventilation ciency (Ev) =	0.960	Corrected	Outside Air Intake Air, CFM (Vot) =	333	Corrected O % of	utside Air as Supply Air =	16.7%
RT	U 24		OUTS	IDE /	AIR V	/ENT	ILAT	ION (CALC	ULATI	ONS	(OA))	
AIR SYS	STEM TAG	ROOM OCCUPANO	Y CLASSIFICATON	Code	Basis: IMC	2018	ZONE EFFECTIV	VENTILATION ENESS (Ez) =	0.8	SYSTEM DIVI	OCCUPANT ERSITY (D) =	100%	OUTSIE SUMN	DE AIR MARY
ROOM NUMBER	ROOM NAME	PRIMARY	SECONDARY	ZONE AREA (SF)	ZONE PRIMARY AIR CFM	PEOPLE OUTSIDE AIR RATE (CFM)	AREA OUTSIDE AIR RATE (CFM/SF)	OCCUPANT DENSITY #/1000 SF	TOTAL PEOPLE	BREATHING ZONE OUTSIDE AIR CFM	ZONE OUTSIDE AIR CFM	PRIMARY OUTSIDE AIR FRACTION	PEOPLE OUTSIDE AIR CFM	ROOM OUTSIDE AIR CFM
7	CLASSROOM			(Az)	(Vpz)	(Rp)	(Ra)		(Pz)	(Vbz)	(Voz)	(Zp)		
		EDUCATION	(AGES 5-8)	1,041	1,900	10.0	0.12	25	26	385	481	0.253	260	125
Project:	TFSD Harrison E Upgrade	LEDUCATION	(AGES 5-8)	1,041 bly Air CFM =	1,900 1,900	10.0	0.12	25	26 Uncorr In	385 rected Outside Air take, CFM (Vou) =	481 385	0.253 <<<< <oa Sum</oa 	260 260	125 125
Project: Location:	TFSD Harrison E Upgrade Twin Falls, Idaho	Internation Internation	(AGES 5-8) Total Supp Critical Zone Fraction	1,041 bly Air CFM = e Outside Air n (MAX Zp) =	1,900 1,900 0.253	10.0 Syster Effi	0.12 m Ventilation ciency (Ev) =	25 0.949	26 Uncorr In Corrected	385 rected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) =	481 385 406	0.253 <<<<< OA Sum Corrected O % of	260 260 utside Air as Supply Air =	125 125 21.4%
Project: Location: RTU	TFSD Harrison E Upgrade Twin Falls, Idaho 25,26	Iementary HVAC	(AGES 5-8) Total Supp Critical Zone Fraction	1,041 bly Air CFM = e Outside Air n (MAX Zp) = IDE /	1,900 1,900 0.253	10.0 Syster Effi	0.12 m Ventilation ciency (Ev) =	25 0.949 ION (26 Uncorr In Corrected	385 rected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) =	481 385 406 ONS	0.253 <<<<< OA Sum Corrected O % of (OA)	260 260 utside Air as Supply Air =	125 125 21.4%
Project: Location: RTU AIR SYS	TFSD Harrison E Upgrade Twin Falls, Idaho 25,26 STEM TAG	EDUCATION lementary HVAC	CLASSROOMS (AGES 5-8) Total Supp Critical Zone Fraction OUTS	1,041 oly Air CFM = e Outside Air n (MAX Zp) = IDE / Code	1,900 1,900 0.253 AIR V Basis: IMC	10.0 Syster Effi Z 2018	0.12 m Ventilation ciency (Ev) = ILAT ZONE EFFECTIV	0.949 ION C VENTILATION ENESS (Ez) =	26 Uncorr In Corrected CALC 0.8	385 rected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) = CULATI SYSTEM DIVI	481 385 406 ONS OCCUPANT ERSITY (D) =	0.253 < < < < OA Sum Corrected O % of (OA) 100% PRIMARY	260 260 utside Air as Supply Air = OUTSIE SUMN	125 125 21.4% DE AIR MARY
Project: Location: RTU AIR SYS ROOM NUMBER	TFSD Harrison E Upgrade Twin Falls, Idaho 25,26 STEM TAG ROOM NAME	EDUCATION lementary HVAC	CLASSROOMS (AGES 5-8) Total Supp Critical Zone Fraction OUTS CY CLASSIFICATON SECONDARY	1,041 oly Air CFM = e Outside Air n (MAX Zp) = IDE / Code ZONE AREA (SF) (Az)	1,900 1,900 0.253 AIR V Basis: IMC PRIMARY AIR CFM (VDZ)	10.0 Systen Effi /ENT 2018 PEOPLE OUTSIDE AIR RATE (CFM) (Rp)	0.12 m Ventilation ciency (Ev) = ILAT ZONE EFFECTIV AREA OUTSIDE AIR RATE (CFM/SF) (Ra)	0.949 ION C VENTILATION ENESS (Ez) = OCCUPANT DENSITY #/1000 SF	26 Uncorn In Corrected 0.8 TOTAL PEOPLE (P7)	385 rected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) = CULATI SYSTEM DIVI BREATHING ZONE OUTSIDE AIR CFM (Vbz)	481 385 406 OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM	0.253 <<<<< OA Sum Corrected O % of (OA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp)	260 260 utside Air as Supply Air = OUTSII SUMM PEOPLE OUTSIDE AIR CFM	125 125 21.4% DE AIR MARY ROOM OUTSIDE AIR CFM
Project: Location: RTU AIR SYS ROOM NUMBER 3, (1)	TFSD Harrison E Upgrade Twin Falls, Idaho 25,26 STEM TAG ROOM NAME CLASSROOM	EDUCATION	CLASSROOMS (AGES 5-8) Total Supp Critical Zone Fraction OUTS CLASSIFICATON SECONDARY CLASSROOMS (AGES 5-8)	1,041 bly Air CFM = e Outside Air n (MAX Zp) = IDE / Code ZONE AREA (SF) (Az) 1,070	1,900 1,900 0.253 AIR V Basis: IMC PRIMARY AIR CFM (Vpz) 1,500	10.0 Systen Effi Z 2018 PEOPLE OUTSIDE AIR RATE (CFM) (Rp) 10.0	0.12 m Ventilation ciency (Ev) = ILLAT ZONE EFFECTIV AREA OUTSIDE AIR RATE (CFM/SF) (Ra) 0.12	25 0.949 ION C VENTILATION ENESS (Ez) = OCCUPANT DENSITY #/1000 SF	26 Uncorr Corrected Corrected 0.8 TOTAL PEOPLE (Pz) 27	385 rected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) = CULATI SYSTEM DIVI BREATHING ZONE OUTSIDE AIR CFM (Vbz) 396	481 385 406 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM (Voz) 495	0.253 <<<<< OA Sum Corrected O % of (OA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 0.330	260 260 utside Air as Supply Air = OUTSID SUMN PEOPLE OUTSIDE AIR CFM 268	125 125 21.4% DE AIR MARY ROOM OUTSIDE AIR CFM 128
Project: Location: RTU AIR SYS ROOM NUMBER 3, (1) 4, (2)	TFSD Harrison E Upgrade Twin Falls, Idaho 25,26 STEM TAG ROOM NAME CLASSROOM TEACHERS STATION	EDUCATION lementary HVAC ROOM OCCUPANC PRIMARY EDUCATION OFFICES	CLASSROOMS (AGES 5-8) Total Supp Critical Zone Fraction OUTS CLASSIFICATON SECONDARY CLASSROOMS (AGES 5-8) OFFICE SPACE	1,041 oly Air CFM = e Outside Air n (MAX Zp) = IDE / Code ZONE AREA (SF) (Az) 1,070 416	1,900 1,900 0.253 AIR V Basis: IMC PRIMARY AIR CFM (Vpz) 1,500 500	10.0 System Effi Z 2018 PEOPLE OUTSIDE AIR RATE (CFM) (Rp) 10.0 5.0	0.12 m Ventilation ciency (Ev) = ILAT ZONE = EFFECTIV AREA OUTSIDE AIR RATE (CFM/SF) (Ra) 0.12 0.06	25 0.949 ION C VENTILATION ENESS (Ez) = OCCUPANT DENSITY #/1000 SF 25 5	26 Uncorn In Corrected 0.8 TOTAL PEOPLE (Pz) 27 2	385 rected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) = CULATI SYSTEM DIVI BREATHING ZONE OUTSIDE AIR CFM (Vbz) 396 35	481 385 406 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM (Voz) 495 44	0.253 <<<<< OA Sum Corrected O % of (OA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 0.330 0.088	260 260 utside Air as Supply Air = OUTSID SUMM PEOPLE OUTSIDE AIR CFM 268 10	125 125 21.4% DE AIR MARY ROOM OUTSIDE AIR CFM 128 25
Project: Location: RTU AIR SYS ROOM NUMBER 3, (1) 4, (2) Project:	TFSD Harrison E Upgrade Twin Falls, Idaho 25,26 STEM TAG ROOM NAME CLASSROOM TEACHERS STATION TFSD Harrison E Upgrade	EDUCATION Iementary HVAC ROOM OCCUPANC PRIMARY EDUCATION OFFICES Iementary HVAC	CLASSROOMS (AGES 5-8) Total Supp Critical Zone Fraction OUTS CLASSIFICATON SECONDARY CLASSROOMS (AGES 5-8) OFFICE SPACE Total Supp	1,041 Dly Air CFM = e Outside Air n (MAX Zp) = IDE / Code ZONE AREA (SF) (Az) 1,070 416 Dly Air CFM =	1,900 1,900 0.253 AIR V Basis: IMC PRIMARY AIR CFM (Vpz) 1,500 500 2,000	10.0 Systen Effi Z 2018 PEOPLE OUTSIDE AIR RATE (CFM) (Rp) 10.0 5.0	0.12 m Ventilation ciency (Ev) = ILAT ZONE EFFECTIV AREA OUTSIDE AIR RATE (CFM/SF) (Ra) 0.12 0.06	25 0.949 ION C VENTILATION ENESS (Ez) = OCCUPANT DENSITY #/1000 SF 25 5	26 Uncorr In Corrected 0 CALC 0.8 TOTAL PEOPLE (Pz) 27 2 Uncorr In	385 rected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) = CULATI SYSTEM DIVI BREATHING ZONE OUTSIDE AIR CFM (Vbz) 396 35 rected Outside Air take, CFM (Vou) =	481 385 406 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM (Voz) 495 44 431	0.253 <<<<< OA Sum Corrected O % of (OA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 0.330 0.088 <<<<< OA Sum	260 260 utside Air as Supply Air = OUTSIE SUMM PEOPLE OUTSIDE AIR CFM 268 10 278	125 125 21.4% DE AIR MARY ROOM OUTSIDE AIR CFM 128 25 153
Project: Location: RTU AIR SYS ROOM NUMBER 3, (1) 4, (2) Project: Location:	TFSD Harrison E Upgrade Twin Falls, Idaho 25,26 STEM TAG ROOM NAME CLASSROOM TEACHERS STATION TFSD Harrison E Upgrade Twin Falls, Idaho	EDUCATION lementary HVAC ROOM OCCUPANC PRIMARY EDUCATION OFFICES lementary HVAC	CLASSROOMS (AGES 5-8) Total Supp Critical Zone Fraction OUTS CLASSIFICATON SECONDARY CLASSROOMS (AGES 5-8) OFFICE SPACE Total Supp Critical Zone Fraction	1,041 bly Air CFM = e Outside Air n (MAX Zp) = IDE / Code ZONE AREA (SF) (Az) 1,070 416 bly Air CFM = e Outside Air n (MAX Zp) =	1,900 1,900 0.253 AIR V Basis: IMC PRIMARY AIR CFM (Vpz) 1,500 500 2,000 0.330	10.0 System Effi Z 2018 PEOPLE OUTSIDE AIR RATE (CFM) (Rp) 10.0 5.0 System Effi	0.12 m Ventilation ciency (Ev) = ILAT ZONE EFFECTIV AREA OUTSIDE AIR RATE (CFM/SF) (Ra) 0.12 0.06 m Ventilation ciency (Ev) =	25 0.949 ION C VENTILATION ENESS (Ez) = OCCUPANT DENSITY #/1000 SF 25 5 0.886	26 Uncorn In Corrected 0.8 TOTAL PEOPLE (Pz) 27 2 Uncorn In Corrected	385 ected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) = CULATI SYSTEM DIVI BREATHING ZONE OUTSIDE AIR CFM (Vbz) 396 35 rected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) =	481 385 406 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM (Voz) 495 44 431 487	0.253 <<<< <oa Sum Corrected O % of (OA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 0.330 0.088 <<<<< OA Sum Corrected O % of</oa 	260 260 utside Air as Supply Air = OUTSIE SUMM PEOPLE OUTSIDE AIR CFM 268 10 278 utside Air as Supply Air =	125 125 21.4% DE AIR MARY ROOM OUTSIDE AIR CFM 128 25 153 24.3%
Project: Location: RTU AIR SYS ROOM NUMBER 3, (1) 4, (2) Project: Location: RT	TFSD Harrison E Upgrade Twin Falls, Idaho 25,26 STEM TAG ROOM NAME CLASSROOM TEACHERS STATION TFSD Harrison E Upgrade Twin Falls, Idaho	EDUCATION Iementary HVAC ROOM OCCUPANC PRIMARY EDUCATION OFFICES Iementary HVAC	CLASSROOMS (AGES 5-8) Total Supp Critical Zone Fraction OUTS CLASSIFICATON SECONDARY CLASSROOMS (AGES 5-8) OFFICE SPACE Total Supp Critical Zone Fraction	1,041 bly Air CFM = e Outside Air n (MAX Zp) = IDE / Code ZONE AREA (SF) (Az) 1,070 416 bly Air CFM = e Outside Air n (MAX Zp) = IDE /	1,900 1,900 0.253 AIR V Basis: IMC PRIMARY AIR CFM (Vpz) 1,500 2,000 0.330 AIR V	10.0 Syster Effi 2018 PEOPLE OUTSIDE AIR RATE (CFM) (Rp) 10.0 5.0 Syster Effi	0.12 m Ventilation ciency (Ev) = ILAT ZONE EFFECTIV AREA OUTSIDE AIR RATE (CFM/SF) (Ra) 0.12 0.06 m Ventilation ciency (Ev) = ILAT	25 0.949 ION C VENTILATION ENESS (Ez) = OCCUPANT DENSITY #/1000 SF 25 5 0.886 ION C	26 Uncorn In Corrected 0.8 TOTAL PEOPLE (Pz) 27 2 Uncorn In Corrected	385 rected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) = CULATI BREATHING ZONE OUTSIDE AIR CFM (Vbz) 396 35 rected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) = CULATI	481 385 406 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM (Voz) 495 44 431 487 ONS	0.253 <<<<< OA Sum Corrected O % of (OA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 0.330 0.088 <<<<< OA Sum Corrected O % of (OA)	260 260 utside Air as Supply Air = OUTSID SUMM PEOPLE OUTSIDE AIR CFM 268 10 278 utside Air as Supply Air =	125 125 21.4% DE AIR MARY ROOM OUTSIDE AIR CFM 128 25 153 24.3%
Project: Location: RTU AIR SYS ROOM NUMBER 3, (1) 4, (2) Project: Location: RT AIR SYS	TFSD Harrison E Upgrade Twin Falls, Idaho 25,26 STEM TAG ROOM NAME CLASSROOM TEACHERS STATION TFSD Harrison E Upgrade Twin Falls, Idaho U 27 STEM TAG	EDUCATION Iementary HVAC ROOM OCCUPANC PRIMARY EDUCATION OFFICES Iementary HVAC	CLASSROOMS (AGES 5-8) Total Supp Critical Zone Fraction OUTS CLASSIFICATON SECONDARY CLASSIFICATON OFFICE SPACE Total Supp Critical Zone Fraction	1,041 bly Air CFM = e Outside Air n (MAX Zp) = IDE / Code ZONE AREA (SF) (Az) 1,070 416 bly Air CFM = e Outside Air n (MAX Zp) = IDE / Code	1,900 1,900 0.253 AIR V Basis: IMC 2ONE PRIMARY AIR CFM (Vpz) 1,500 2,000 0.330 AIR V Basis: IMC ZONE	10.0 System	0.12 m Ventilation ciency (Ev) = ILAT ZONE EFFECTIV AREA OUTSIDE AIR RATE (CFM/SF) (Ra) 0.12 0.06 m Ventilation ciency (Ev) = ILAT ZONE EFFECTIV AREA	25 0.949 ION C VENTILATION ENESS (Ez) = OCCUPANT DENSITY #/1000 SF 25 5 0.886 ION C VENTILATION ENESS (Ez) =	26 Uncorn In Corrected 0.8 TOTAL PEOPLE (Pz) 27 2 Uncorn In Corrected 0.8	385 ected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) = CULATI SYSTEM DIVI BREATHING ZONE OUTSIDE AIR CFM (Vbz) 396 35 rected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) = CULATI SYSTEM DIVI BREATHING	481 385 406 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM (Voz) 495 44 431 487 ONS OCCUPANT ERSITY (D) = ZONE	0.253 < < < < OA Sum Corrected O % of (OA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 0.330 0.088 < < < < OA Sum Corrected O % of (OA) 100% PRIMARY	260 260 utside Air as Supply Air = OUTSII SUMM PEOPLE OUTSIDE AIR CFM 268 10 278 utside Air as Supply Air = OUTSII SUMM PEOPLE	125 125 21.4% DE AIR MARY ROOM OUTSIDE AIR CFM 128 25 153 24.3% DE AIR MARY ROOM
Project: Location: RTU AIR SYS ROOM NUMBER 3, (1) 4, (2) Project: Location: RTI AIR SYS ROOM NUMBER	TFSD Harrison E Upgrade Twin Falls, Idaho 25,26 STEM TAG ROOM NAME CLASSROOM TEACHERS STATION TFSD Harrison E Upgrade Twin Falls, Idaho U 27 STEM TAG ROOM NAME	EDUCATION Iementary HVAC ROOM OCCUPANC PRIMARY EDUCATION OFFICES Iementary HVAC ROOM OCCUPANC PRIMARY	CLASSROOMS (AGES 5-8) Total Supp Critical Zone Fraction OUTS Y CLASSIFICATON SECONDARY CLASSROOMS (AGES 5-8) OFFICE SPACE Total Supp Critical Zone Fraction OUTS Y CLASSIFICATON SECONDARY	1,041 oly Air CFM = e Outside Air n (MAX Zp) = IDE / Code ZONE AREA (SF) (Az) 1,070 416 oly Air CFM = e Outside Air n (MAX Zp) = IDE / Code ZONE AREA (SF) (Az)	1,900 1,900 0.253 AIR V Basis: IMC PRIMARY AIR CFM (Vpz) 1,500 2,000 0.330 AIR V Basis: IMC PRIMARY AIR CFM (Vpz) CONE PRIMARY AIR CFM (Vpz)	10.0 System System System System System System System System Effin System S	0.12 m Ventilation ciency (Ev) = ILAT ZONE EFFECTIV AREA OUTSIDE AIR RATE (CFM/SF) (Ra) 0.12 0.06 m Ventilation ciency (Ev) = ILAT ZONE EFFECTIV AREA OUTSIDE AIR RATE (CFM/SF) (Ra)	25 0.949 ION C VENTILATION ENESS (Ez) = OCCUPANT DENSITY #/1000 SF 25 5 0.886 ION C VENTILATION ENESS (Ez) = OCCUPANT DENSITY #/1000 SF	26 Uncorn In Corrected 0.8 TOTAL PEOPLE (Pz) 27 2 Uncorn In Corrected 0.8 Corrected 0.8	385 Pected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) = CULATI SYSTEM DIVI BREATHING ZONE OUTSIDE AIR CFM (Vbz) 396 35 Pected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) = CULATI SYSTEM DIVI BREATHING ZONE OUTSIDE AIR CFM (Vbz)	481 385 406 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM (Voz) 495 44 431 487 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM (Voz)	0.253 <<<< <oa Sum Corrected O % of (OA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 0.330 0.088 <<<<<oa Sum Corrected O % of (OA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 100%</oa </oa 	260 260 utside Air as Supply Air = OUTSID SUMM PEOPLE OUTSIDE AIR CFM 268 10 278 utside Air as Supply Air = OUTSID SUMM PEOPLE OUTSIDE AIR CFM	125 125 21.4% DE AIR MARY ROOM OUTSIDE AIR CFM 128 25 153 24.3% DE AIR MARY ROOM OUTSIDE AIR CFM
Project: Location: RTU AIR SYS ROOM NUMBER 3, (1) 4, (2) Project: Location: RTI AIR SYS ROOM NUMBER 42	TFSD Harrison E Upgrade Twin Falls, Idaho 25,26 STEM TAG ROOM NAME CLASSROOM TEACHERS STATION TFSD Harrison E Upgrade Twin Falls, Idaho U 27 STEM TAG ROOM NAME LIBRARY	EDUCATION Iementary HVAC ROOM OCCUPANC PRIMARY EDUCATION OFFICES Iementary HVAC ROOM OCCUPANC PRIMARY PUBLIC SPACES	CLASSROOMS (AGES 5-8) Total Supp Critical Zone Fraction OUTS CLASSIFICATON SECONDARY CLASSROOMS (AGES 5-8) OFFICE SPACE Total Supp Critical Zone Fraction OUTS Critical Zone Fraction SECONDARY LIBRARIES	1,041 bly Air CFM = e Outside Air n (MAX Zp) = IDE / Code ZONE AREA (SF) (Az) 1,070 416 bly Air CFM = e Outside Air n (MAX Zp) = IDE / Code ZONE AREA (SF) (Az) Code ZONE AREA (SF)	1,900 1,900 0.253 AIR V Basis: IMC PRIMARY AIR CFM (Vpz) 1,500 2,000 0.330 AIR V Basis: IMC PRIMARY AIR CFM (Vpz) 2,000	10.0 Systen Effi Z 2018 PEOPLE OUTSIDE AIR RATE (CFM) (Rp) 10.0 5.0 Systen Effi Z 2018 PEOPLE OUTSIDE AIR RATE (CFM) (Rp) 5.0	0.12 m Ventilation ciency (Ev) = ILAT ZONE EFFECTIV AREA OUTSIDE AIR RATE (CFM/SF) (Ra) 0.12 0.06 m Ventilation ciency (Ev) = ILAT EFFECTIV AREA OUTSIDE AIR RATE (CFM/SF) (Ra) 0.12	25 0.949 ION C VENTILATION ENESS (Ez) = 0CCUPANT DENSITY #/1000 SF 25 5 0.886 ION C VENTILATION ENESS (Ez) = 0CCUPANT DENSITY #/1000 SF 10	26 Uncorn In Corrected 0.8 TOTAL PEOPLE (Pz) 27 2 Uncorn In Corrected 0.8 CALCO 0.8	385 rected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) = CULATI SYSTEM DIVI BREATHING ZONE OUTSIDE AIR CFM (Vbz) 396 35 rected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) = CULATI SYSTEM DIVI BREATHING ZONE OUTSIDE AIR CFM (Vbz) 350	481 385 406 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM (Voz) 495 44 431 487 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM (Voz) 437	0.253 <<<< <oa Sum Corrected O % of (OA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 0.330 0.088 <<<<<oa Sum Corrected O % of (OA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 0.218</oa </oa 	260 260 utside Air as Supply Air = OUTSID SUMM PEOPLE OUTSIDE AIR CFM 268 10 278 utside Air as Supply Air = OUTSID SUMM PEOPLE OUTSIDE AIR CFM PEOPLE OUTSIDE AIR CFM 103	125 125 21.4% DE AIR MARY ROOM OUTSIDE AIR CFM DE AIR MARY ROOM OUTSIDE AIR CFM
Project: Location: RTU AIR SYS ROOM NUMBER 3, (1) 4, (2) Project: Location: RT AIR SYS ROOM NUMBER 42 Project:	TFSD Harrison E Upgrade Twin Falls, Idaho 25,26 STEM TAG ROOM NAME CLASSROOM TEACHERS STATION TFSD Harrison E Upgrade Twin Falls, Idaho U 27 STEM TAG ROOM NAME LIBRARY TFSD Harrison E Upgrade	EDUCATION Iementary HVAC ROOM OCCUPANC PRIMARY EDUCATION OFFICES Iementary HVAC ROOM OCCUPANC PRIMARY PUBLIC SPACES Iementary HVAC	CLASSROOMS (AGES 5-8) Total Supp Critical Zone Fraction OUTS CLASSIFICATON SECONDARY CLASSROOMS (AGES 5-8) OFFICE SPACE Total Supp Critical Zone Fraction OUTS Critical Zone Fraction SECONDARY LIBRARIES Total Supp	1,041 oly Air CFM = e Outside Air n (MAX Zp) = IDE / Code ZONE AREA (SF) (Az) 1,070 416 oly Air CFM = e Outside Air n (MAX Zp) = IDE / Code ZONE AREA (SF) (Az) 2,056 oly Air CFM =	1,900 1,900 0.253 AIR V Basis: IMC PRIMARY AIR CFM (Vpz) 1,500 2,000 0.330 AIR V Basis: IMC PRIMARY AIR CFM (Vpz) 2,000 2,000 2,000	10.0 System System System System System System System System System System System System System System Effin System S	0.12 m Ventilation ciency (Ev) = ILAT EFFECTIV AREA OUTSIDE AIR RATE (CFM/SF) (Ra) 0.12 0.06 m Ventilation ciency (Ev) = ILAT EFFECTIV AREA OUTSIDE AIR RATE (CFM/SF) (Ra) 0.12	25 0.949 ION C VENTILATION ENESS (Ez) = 0CCUPANT DENSITY #/1000 SF 25 5 0.886 ION C VENTILATION ENESS (Ez) = 0CCUPANT DENSITY #/1000 SF 10	26 Uncorn In Corrected 0.8 TOTAL PEOPLE (Pz) 27 2 Uncorn In Corrected 0.8 TOTAL PEOPLE 0.8 TOTAL PEOPLE (Pz) 21 Uncorn In	385 ected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) = CULATI SYSTEM DIVI BREATHING ZONE OUTSIDE AIR CFM (Vbz) 396 35 rected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vou) = CULATI SYSTEM DIVI BREATHING ZONE OUTSIDE AIR CFM (Vbz) 350 rected Outside Air take, CFM (Vou) =	481 385 406 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM (Voz) 495 44 431 487 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM (Voz) 437 350	0.253 < < < < OA Sum Corrected O % of (OA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 0.330 0.088 < < < < OA Sum Corrected O % of (OA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 0.218 < < < < OA Sum	260 260 utside Air as Supply Air = OUTSIE SUMM PEOPLE OUTSIDE AIR CFM 268 10 278 utside Air as Supply Air = OUTSIE SUMM PEOPLE OUTSIE AIR CFM 103 103 103	12512521.4%DE AIR MARYROOM OUTSIDE AIR CFM1282515324.3%DE AIR MARYROOM OUTSIDE AIR CFM247247
Project: Location: RTU AIR SYS ROOM NUMBER 3, (1) 4, (2) Project: Location: RTI AIR SYS ROOM NUMBER 42 Project: Location:	TFSD Harrison E Upgrade Twin Falls, Idaho 25,26 STEM TAG ROOM NAME CLASSROOM TEACHERS STATION TFSD Harrison E Upgrade Twin Falls, Idaho LIBRARY TFSD Harrison E Upgrade TSD Harrison E	EDUCATION ROOM OCCUPANC PRIMARY EDUCATION OFFICES ROOM OCCUPANC ROOM OCCUPANC PRIMARY PUBLIC SPACES Rementary HVAC	CLASSROOMS (AGES 5-8) Total Supp Critical Zone Fraction OUTS Y CLASSIFICATON SECONDARY CLASSROOMS (AGES 5-8) OFFICE SPACE Total Supp Critical Zone Fraction OUTS SECONDARY LIBRARIES Total Supp Critical Zone Fraction	1,041 bly Air CFM = e Outside Air n (MAX Zp) = IDE / Code ZONE AREA (SF) (Az) 1,070 416 bly Air CFM = e Outside Air n (MAX Zp) = IDE / Code ZONE AREA (SF) (Az) 2,056 bly Air CFM = e Outside Air n (MAX Zp) =	1,900 1,900 0.253 AIR V Basis: IMC PRIMARY AIR CFM (Vpz) 1,500 2,000 0.330 AIR V Basis: IMC Basis: IMC PRIMARY AIR CFM (Vpz) 2,000 2,000 2,000 0.218	10.0 System Effi 2018 PEOPLE OUTSIDE AIR RATE (CFM) (Rp) 10.0 5.0 System Effi 2018 PEOPLE OUTSIDE AIR RATE (CFM) (Rp) 5.0 System Effi	0.12 m Ventilation ciency (Ev) = ILAT ZONE EFFECTIV AREA OUTSIDE AIR RATE (CFM/SF) (Ra) 0.12 0.06 m Ventilation ciency (Ev) = ILAT ZONE EFFECTIV AREA OUTSIDE AIR RATE (CFM/SF) (Ra) 0.12	25 0.949 ION C VENTILATION ENESS (Ez) = 0CCUPANT DENSITY #/1000 SF 25 5 0.886 ION C VENTILATION ENESS (Ez) = 0CCUPANT DENSITY #/1000 SF 10	26 Uncorn In Corrected 0.8 TOTAL PEOPLE (Pz) 27 2 Uncorn In Corrected 0.8 TOTAL PEOPLE (Pz) 21 Uncorn In Corrected	385 Pected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) = CULATI SYSTEM DIVI BREATHING ZONE OUTSIDE AIR CFM (Vbz) 396 35 Pected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) = CULATI BREATHING ZONE OUTSIDE AIR CFM UVDZ SYSTEM DIVI BREATHING ZONE OUTSIDE AIR CFM (Vbz) 350 Pected Outside Air take, CFM (Vou) = Outside Air Intake AIR CFM (Vbz) 350 Pected Outside Air CFM (Vou) = Outside Air Intake AIR CFM (Vou) = Outside Air Intake AIR, CFM (Vou) = Out	481 385 406 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM (Voz) 495 44 431 487 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM (Voz) 437 350 365	0.253 <<<< <oa Sum Corrected O % of (OA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 0.330 0.088 <<<<<oa Sum Corrected O % of (OA) PRIMARY OUTSIDE AIR FRACTION (Zp) 0.218 <<<<<oa Sum Corrected O % of</oa </oa </oa 	260 260 utside Air as Supply Air = OUTSIDE AIR CFM 268 10 278 utside Air as Supply Air = OUTSIDE AIR CFM PEOPLE OUTSIDE AIR CFM 103 103 103 103	125 125 21.4% DE AIR MARY ROOM OUTSIDE AIR CFM 128 25 153 24.3% DE AIR MARY ROOM OUTSIDE AIR CFM 247 247 18.3%
Project: Location: RTU AIR SYS ROOM NUMBER 3, (1) 4, (2) Project: Location: RT AIR SYS ROOM NUMBER 42 Project: Location: RT	TFSD Harrison E Upgrade Twin Falls, Idaho 25,26 STEM TAG ROOM NAME CLASSROOM TEACHERS STATION TFSD Harrison E Upgrade Twin Falls, Idaho U 27 STEM TAG ROOM NAME LIBRARY TFSD Harrison E Upgrade Twin Falls, Idaho U 28 STEM TAG	EDUCATION Iementary HVAC ROOM OCCUPANC PRIMARY EDUCATION OFFICES Iementary HVAC ROOM OCCUPANC PRIMARY PUBLIC SPACES Iementary HVAC	CLASSROOMS (AGES 5-8) Total Supp Critical Zone Fraction OUTS CLASSIFICATON SECONDARY CLASSIFICATON CRITICAL SUPP Critical Zone Fraction OUTS Critical Zone Fraction SECONDARY LIBRARIES Total Supp Critical Zone Fraction OUTS Critical Zone Fraction	1,041 bly Air CFM = e Outside Air n (MAX Zp) = IDE / Code ZONE AREA (SF) (Az) 1,070 416 bly Air CFM = e Outside Air n (MAX Zp) = IDE / Code ZONE AREA (SF) (Az) 2,056 bly Air CFM = e Outside Air n (MAX Zp) = IDE /	1,900 1,900 0.253 AIR V Basis: IMC PRIMARY AIR CFM (Vpz) 1,500 2,000 0.330 AIR V Basis: IMC PRIMARY AIR CFM (Vpz) 2,000 2,000 0.218 AIR V	10.0 System System System System System System System System System System System System System System CFM) (Rp) 5.0 System	0.12 m Ventilation ciency (Ev) = ILAT ZONE EFFECTIV AREA OUTSIDE AIR RATE (CFM/SF) (Ra) 0.12 0.06 m Ventilation ciency (Ev) = ILAT CFFECTIV AREA OUTSIDE AIR RATE (CFM/SF) (Ra) 0.12 DILAT	25 0.949 ION C VENTILATION ENESS (EZ) = 0CCUPANT DENSITY #/1000 SF 25 5 0.886 ION C VENTILATION ENESS (EZ) = 0CCUPANT DENSITY #/1000 SF 10 0.956 ION C VENTILATION 0.956	26 Uncorn In Corrected 0.8 TOTAL PEOPLE (Pz) 27 2 Uncorn In Corrected 0.8 TOTAL PEOPLE (Pz) 21 Uncorn In Corrected CALC	385 ected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) = CULATI SYSTEM DIVI BREATHING ZONE OUTSIDE AIR CFM (Vbz) 396 35 ected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) = CULATI BREATHING ZONE OUTSIDE AIR CFM (Vbz) 350 ected Outside Air take, CFM (Vou) = Outside Air Intake AIR CFM (Vbz) 350 ected Outside Air take, CFM (Vou) = Outside Air Intake AIR CFM (Vbz) 350	481 385 406 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM (V02) 495 44 431 487 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM (V02) 437 350 365 ONS OCCUPANT	0.253 <<<< <oa Sum Corrected O % of (OA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 0.330 0.088 <<<<<oa Sum Corrected O % of (OA) PRIMARY OUTSIDE AIR FRACTION (Zp) 0.218 <<<<<oa Sum Corrected O % of Corrected O % of (CA) 0.218 <<<<<oa Sum Corrected O % of (CA) 0.218 <<<<<oa Sum Corrected O % of (CA) 0.218 <<<<<oa Sum Corrected O % of (CA)</oa </oa </oa </oa </oa </oa 	260 260 utside Air as Supply Air = OUTSII SUMM PEOPLE OUTSIDE AIR CFM 268 10 278 utside Air as Supply Air = OUTSII SUMM PEOPLE OUTSII SUMM PEOPLE OUTSII SUMM 103 103 utside Air as Supply Air =	125 125 21.4% DE AIR MARY ROOM OUTSIDE AIR CFM 128 25 153 24.3% DE AIR MARY ROOM OUTSIDE AIR CFM 247 247 247 18.3%
Project: Location: RTU AIR SYS ROOM NUMBER 3, (1) 4, (2) Project: Location: RT AIR SYS AIR SYS AIR SYS	TFSD Harrison E Upgrade Twin Falls, Idaho 25,26 STEM TAG ROOM NAME CLASSROOM TEACHERS STATION TFSD Harrison E Upgrade Twin Falls, Idaho U 27 STEM TAG ROOM NAME LIBRARY TFSD Harrison E Upgrade Twin Falls, Idaho U 28 STEM TAG	EDUCATION ROOM OCCUPANC PRIMARY EDUCATION OFFICES Hementary HVAC ROOM OCCUPANC PRIMARY PUBLIC SPACES Hementary HVAC ROOM OCCUPANC	CLASSROOMS (AGES 5-8) Total Supp Critical Zone Fraction OUTS Y CLASSIFICATON CLASSROOMS (AGES 5-8) OFFICE SPACE Total Supp Critical Zone Fraction OUTS Y CLASSIFICATON SECONDARY LIBRARIES Total Supp Critical Zone Fraction OUTS Y CLASSIFICATON	1,041 oly Air CFM = e Outside Air n (MAX Zp) = IDE / Code ZONE AREA (SF) (Az) 1,070 416 oly Air CFM = e Outside Air n (MAX Zp) = IDE / Code ZONE AREA (SF) (Az) 2,056 oly Air CFM = e Outside Air n (MAX Zp) = IDE / Code	1,900 1,900 0.253 AIR V Basis: IMC ZONE PRIMARY AIR CFM (Vpz) 1,500 2,000 0.330 AIR V Basis: IMC PRIMARY AIR CFM (Vpz) 2,000 0.218 AIR V Basis: IMC	10.0 System	0.12 m Ventilation ciency (Ev) = ILAT ZONE EFFECTIV AREA OUTSIDE AIR RATE (CFM/SF) (Ra) 0.12 0.06 m Ventilation ciency (Ev) = ILAT CFM/SF) (Ra) 0.12 0.06 m Ventilation ciency (Ev) = ILAT	25 0.949 ION C VENTILATION ENESS (Ez) = OCCUPANT DENSITY #/1000 SF 25 5 0.886 ION C VENTILATION ENESS (Ez) = OCCUPANT #/1000 SF 10 0.956 ION C VENTILATION ENESS (Ez) = OCCUPANT	26 Uncorn In Corrected 0.8 TOTAL PEOPLE (Pz) 27 2 Uncorn In Corrected 0.8 TOTAL PEOPLE (Pz) 21 Uncorn In Corrected 0.8	385 Pected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) = CULATI BREATHING ZONE OUTSIDE AIR CFM (Vbz) 396 35 Pected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) = CULATI BREATHING ZONE OUTSIDE AIR CFM (Vbz) 350 Pected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vou) = CULATI	481 385 406 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM (Voz) 495 44 431 487 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM (Voz) 437 350 365 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM	0.253 <<<< <oa Sum Corrected O % of (OA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 0.330 0.088 <<<<<oa Sum Corrected O % of (OA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 0.218 <<<<oa Sum Corrected O % of (Zp) 0.218 <<<<oa Sum Corrected O % of (CA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 0.218 <<<<<oa Sum Corrected O % of (DA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 0.218 <<<<oa Sum Corrected O % of Corrected O % of Corrected O % of Corrected O % of Corrected O % of Corrected O % of PRIMARY OUTSIDE AIR FRACTION (Zp) 0.218 <<<<oa Sum Corrected O % of PRIMARY OUTSIDE AIR FRACTION (Zp) 0.218 Corrected O % of PRIMARY OUTSIDE AIR FRACTION (Zp) 0.218 Corrected O % of PRIMARY OUTSIDE AIR FRACTION (Zp) 0.218 Corrected O % of PRIMARY OUTSIDE AIR FRACTION (Zp) 0.218 Corrected O % of PRIMARY Corrected O % of PRIMARY COR PRIMARY COR PRIMARY COR PRIMARY COR PRIMARY COR PRIMARY PRIMARY COR PRIMARY PRI</oa </oa </oa </oa </oa </oa </oa 	260 260 utside Air as Supply Air = OUTSID SUMM PEOPLE OUTSIDE AIR CFM 268 10 278 utside Air as Supply Air = OUTSIDE AIR CFM 103 103 103 103 103 Utside Air as Supply Air =	125 125 21.4% DE AIR MARY ROOM OUTSIDE AIR CFM 128 25 153 24.3% DE AIR MARY ROOM OUTSIDE AIR CFM 24.3% DE AIR MARY ROOM OUTSIDE AIR CFM 247 18.3% DE AIR MARY ROOM
Project: Location: RTU AIR SYS ROOM NUMBER 3, (1) 4, (2) Project: Location: RT AIR SYS ROOM NUMBER 42 Project: Location: RT AIR SYS	TFSD Harrison E Upgrade Twin Falls, Idaho 25,26 STEM TAG ROOM NAME CLASSROOM TEACHERS STATION TFSD Harrison E Upgrade Twin Falls, Idaho U 27 STEM TAG ROOM NAME LIBRARY TFSD Harrison E Upgrade Twin Falls, Idaho U 28 STEM TAG	EDUCATION ROOM OCCUPANC PRIMARY EDUCATION OFFICES Hementary HVAC ROOM OCCUPANC PRIMARY PUBLIC SPACES Hementary HVAC ROOM OCCUPANC ROOM OCCUPANC ROOM OCCUPANC ROOM OCCUPANC	CLASSROOMS (AGES 5-8) Total Supp Critical Zone Fraction OUTS Y CLASSIFICATON CLASSROOMS (AGES 5-8) OFFICE SPACE Total Supp Critical Zone Fraction OUTS Y CLASSIFICATON SECONDARY LIBRARIES Total Supp Critical Zone Fraction OUTS Y CLASSIFICATON SECONDARY	1,041 oly Air CFM = e Outside Air n (MAX Zp) = IDE / Code ZONE AREA (SF) (Az) 1,070 416 oly Air CFM = e Outside Air n (MAX Zp) = IDE / Code ZONE AREA (SF) (Az) 2,056 oly Air CFM = e Outside Air n (MAX Zp) = IDE / Code ZONE AREA (SF) (Az) 2,056	1,900 1,900 0.253 AIR V Basis: IMC PRIMARY AIR CFM (Vpz) 1,500 2,000 0.330 AIR V Basis: IMC ZONE PRIMARY AIR CFM (Vpz) 2,000 2,000 0.218 AIR V Basis: IMC	10.0 System Supple Supple Supple System	0.12 m Ventilation ciency (Ev) = ILAT ZONE EFFECTIV AREA OUTSIDE AIR RATE (CFM/SF) (Ra) 0.12 0.06 m Ventilation ciency (Ev) = ILAT AREA OUTSIDE AIR RATE (CFM/SF) (Ra) 0.12 D.12 ILAT AREA OUTSIDE AIR RATE (CFM/SF) (Ra) 0.12 D.12 ILAT AREA OUTSIDE AIR RATE (CFM/SF) (Ra) 0.12 AREA OUTSIDE AIR RATE (CFM/SF) (Ra) 0.12	25 0.949 ION C VENTILATION ENESS (Ez) = OCCUPANT DENSITY #/1000 SF 25 5 0.886 ION C VENTILATION ENESS (Ez) = OCCUPANT DENSITY #/1000 SF 10 0.956 ION C VENTILATION ENESS (Ez) = OCCUPANT DENSITY #/1000 SF	26 Uncorn In Corrected 0.8 TOTAL PEOPLE (Pz) 27 2 Uncorn In Corrected 0.8 TOTAL PEOPLE (Pz) 21 Uncorn In Corrected 0.8	385 ected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) = CULATI BREATHING ZONE OUTSIDE AIR CFM (Vbz) 396 35 ected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) = CULATI BREATHING ZONE OUTSIDE AIR CFM (Vbz) 350 ected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) = CULATI BREATHING ZONE OUTSIDE AIR CFM (Vbz) 350 ected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vou) = Outside Air Intake Air, CFM (Vou) = Outside Air Intake Air, CFM (Vou) = CULATI BREATHING ZONE OUTSIDE AIR CFM (Vot) = CULATI BREATHING SYSTEM DIVI	481 385 406 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM (Voz) 495 44 431 487 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM (Voz) 437 350 365 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM	0.253 <<<< <oa Sum Corrected O % of (OA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 0.330 0.088 <<<<<oa Sum Corrected O % of (OA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 0.218 <<<<<oa Sum Corrected O % of (CA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 0.218 <<<<<oa Sum Corrected O % of (DA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 0.218 <<<<<oa Sum Corrected O % of (DA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 0.218 <<<<<oa Sum Corrected O % of PRIMARY OUTSIDE AIR FRACTION (Zp) 0.218 Corrected O % of PRIMARY OUTSIDE AIR FRACTION (Zp) 0.218 Corrected O % of PRIMARY OUTSIDE AIR FRACTION (Zp) 0.218 COR COR COR COR COR COR COR COR</oa </oa </oa </oa </oa </oa 	260 260 utside Air as Supply Air = OUTSID SUMM PEOPLE OUTSIDE AIR CFM 268 10 278 utside Air as Supply Air = OUTSIDE AIR CFM 103 103 103 103 utside Air as Supply Air = OUTSIDE AIR CFM	125 125 21.4% DE AIR MARY ROOM OUTSIDE AIR CFM 128 25 153 24.3% DE AIR MARY ROOM OUTSIDE AIR CFM 24.3% DE AIR MARY ROOM OUTSIDE AIR CFM 247 18.3% DE AIR MARY ROOM OUTSIDE AIR CFM
Project: Location: RTU AIR SYS ROOM NUMBER 3, (1) 4, (2) Project: Location: RT AIR SYS ROOM NUMBER 42 Project: Location: RT AIR SYS ROOM NUMBER	TFSD Harrison E Upgrade Twin Falls, Idaho 25,26 STEM TAG ROOM NAME CLASSROOM TEACHERS STATION TFSD Harrison E Upgrade Twin Falls, Idaho U 27 STEM TAG ROOM NAME LIBRARY TFSD Harrison E Upgrade Twin Falls, Idaho U 28 STEM TAG U 28 STEM TAG	EDUCATION EDUCATION ROOM OCCUPANC PRIMARY EDUCATION OFFICES Immentary HVAC ROOM OCCUPANC PRIMARY PUBLIC SPACES Immentary HVAC ROOM OCCUPANC ROOM OCCUPANC EDUCATION	CLASSROOMS (AGES 5-8) Total Supp Critical Zone Fraction OUTS Y CLASSIFICATON SECONDARY CLASSIFICATON SECONDARY LIBRARIES TOTAL SUPP Critical Zone Fraction OUTS Y CLASSIFICATON SECONDARY LIBRARIES TOTAL SUPP Critical Zone Fraction OUTS Y CLASSIFICATON SECONDARY	1,041 oly Air CFM = e Outside Air n (MAX Zp) = IDE / Code ZONE AREA (SF) (Az) 1,070 416 oly Air CFM = e Outside Air n (MAX Zp) = IDE / Code ZONE AREA (SF) (Az) 2,056 oly Air CFM = e Outside Air n (MAX Zp) = IDE / Code ZONE AREA (SF) (Az) 2,056 oly Air CFM = e Outside Air n (MAX Zp) = IDE / Code	1,900 1,900 0.253 AIR V Basis: IMC PRIMARY AIR CFM (Vpz) 1,500 2,000 0.330 AIR V Basis: IMC PRIMARY AIR CFM (Vpz) 2,000 0.218 AIR V Basis: IMC PRIMARY AIR CFM (Vpz) 2,000 0.218 AIR V 1,680	10.0 System FFI 2018 PEOPLE OUTSIDE AIR RATE (CFM) (Rp) 10.0 5.0 System Effi 2018 PEOPLE OUTSIDE AIR RATE (CFM) (Rp) 5.0 System Effi 2018 PEOPLE OUTSIDE AIR RATE (CFM) (Rp) 5.0 System Effi 2018 PEOPLE OUTSIDE AIR RATE (CFM) (Rp) 5.0 System Effi 2018 PEOPLE OUTSIDE AIR RATE (CFM) (Rp) 5.0 System Effi 2018 PEOPLE OUTSIDE AIR RATE (CFM) (Rp) 10.0 System Effi 2018 PEOPLE OUTSIDE AIR RATE (CFM) (Rp) 10.0 System Effi (Rp) 10.0 System Effi (Rp) 10.0 System (Rp) (Rp) 10.0 System (Rp)	0.12 m Ventilation ciency (Ev) = ILAT ZONE : EFFECTIV AREA OUTSIDE AIR RATE (CFM/SF) (Ra) 0.12 0.06 m Ventilation ciency (Ev) = ILAT ZONE : EFFECTIV AREA OUTSIDE AIR RATE (CFM/SF) (Ra) 0.12 m Ventilation ciency (Ev) = ILAT ZONE : EFFECTIV AREA OUTSIDE AIR RATE (CFM/SF) (Ra) 0.12 m Ventilation ciency (Ev) = ILAT	25 0.949 ION C VENTILATION ENESS (Ez) = OCCUPANT DENSITY #/1000 SF 25 0.886 ION C VENTILATION ENESS (Ez) = OCCUPANT DENSITY #/1000 SF 10 0.956 ION C VENTILATION ENESS (Ez) = OCCUPANT DENSITY #/1000 SF	26 Uncorn In Corrected 0.8 TOTAL PEOPLE (Pz) 27 2 Uncorn In Corrected 0.8 TOTAL PEOPLE (Pz) 21 Uncorn In Corrected 0.8	385 ected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) = CULATI SYSTEM DIVI BREATHING ZONE OUTSIDE AIR CFM (Vbz) 396 35 rected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) = CULATI BREATHING ZONE OUTSIDE AIR CFM (Vbz) 350 rected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vou) = Outside Air Intake AIR CFM (Vbz) 350 rected Outside Air EXPENDED BREATHING ZONE OUTSIDE AIR CFM (Vbz) 350 rected Outside Air take, CFM (Vou) = Outside Air Intake AIR CFM (Vbz) 350 rected Outside Air CVDZ BREATHING ZONE OUTSIDE AIR CFM (Vbz) 350 rected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vou) = Outside Air Intake Air (Vou) = Outside Air (Vou) = Outside Air (Vou) = Outside Air (Vou)	481 385 406 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM (V02) 495 44 431 487 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM (V02) 437 350 365 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM (V02) 437 350 365 ONS OCCUPANT ERSITY (D) =	0.253 <<<< <oa Sum Corrected O % of (OA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 0.330 0.088 <<<<<oa Sum Corrected O % of (OA) PRIMARY OUTSIDE AIR FRACTION (Zp) 0.218 <<<<<oa Sum Corrected O % of (COA) PRIMARY OUTSIDE AIR FRACTION (Zp) 0.218 <<<<<oa Sum Corrected O % of PRIMARY OUTSIDE AIR FRACTION (Zp) 0.218 <<<<<oa Sum Corrected O % of 0.218 <<<<<oa Sum Corrected O % of 0.218 Corrected O % of 0.231 Corrected O % of 0.231 Corrected O % of 0.231 Corrected O % of Corrected O % of Co</oa </oa </oa </oa </oa </oa 	260 260 utside Air as Supply Air = OUTSII SUMM PEOPLE OUTSIDE AIR CFM 268 10 278 utside Air as Supply Air = OUTSII OUTSII AIR CFM 103 103 103 utside Air as Supply Air = OUTSIE AIR CFM 103 103 103 103 103 103 103 103	125 125 21.4% DE AIR MARY ROOM OUTSIDE AIR CFM 128 25 153 24.3% DE AIR MARY ROOM OUTSIDE AIR CFM 24.3% DE AIR MARY ROOM OUTSIDE AIR CFM 247 18.3% DE AIR MARY ROOM OUTSIDE AIR CFM DE AIR MARY 18.3%
Project: Location: RTU AIR SYS ROOM NUMBER 3, (1) 4, (2) Project: Location: RT AIR SYS ROOM NUMBER 42 Project: Location: RT AIR SYS ROOM NUMBER 38	TFSD Harrison E Upgrade Twin Falls, Idaho 25,26 STEM TAG ROOM NAME CLASSROOM TEACHERS STATION TFSD Harrison E Upgrade Twin Falls, Idaho U 27 STEM TAG ROOM NAME LIBRARY TFSD Harrison E Upgrade Twin Falls, Idaho U 28 STEM TAG ROOM NAME CLASSROOM TEACHERS STATION	EDUCATION ROOM OCCUPANC ROOM OCCUPANC PRIMARY EDUCATION OFFICES ROOM OCCUPANC PRIMARY PUBLIC SPACES ROOM OCCUPANC ROOM OCCUPANC ROOM OCCUPANC COFFICE	CLASSROOMS (AGES 5-8) Total Supp Critical Zone Fraction OUTS Y CLASSIFICATON SECONDARY CLASSROOMS (AGES 5-8) OFFICE SPACE Total Supp Critical Zone Fraction OUTS Y CLASSIFICATON SECONDARY LIBRARIES Total Supp Critical Zone Fraction OUTS Y CLASSIFICATON SECONDARY LIBRARIES Total Supp Critical Zone Fraction OUTS Y CLASSIFICATON SECONDARY	1,041 oly Air CFM = e Outside Air (MAX Zp) = IDE / Code ZONE AREA (SF) (Az) 1,070 416 oly Air CFM = e Outside Air n (MAX Zp) = IDE / Code ZONE AREA (SF) (Az) 2,056 oly Air CFM = e Outside Air n (MAX Zp) = IDE / Code ZONE AREA (SF) (Az) 2,056 oly Air CFM = e Outside Air n (MAX Zp) = IDE / Code ZONE AREA (SF) (Az) 2,056	1,900 1,900 0.253 AIR V Basis: IMC ZONE PRIMARY AIR CFM (Vpz) 1,500 2,000 0.330 AIR V Basis: IMC PRIMARY AIR CFM (Vpz) 2,000 0.218 AIR V Basis: IMC PRIMARY AIR CFM (Vpz) 2,000 0.218 AIR V Basis: IMC 2,000 0.218 AIR V 1,680 320	10.0 System Suppose the second state of the	0.12 m Ventilation ciency (Ev) = ILAT EFFECTIV AREA OUTSIDE AIR RATE (CFM/SF) (Ra) 0.12 0.06 m Ventilation ciency (Ev) = ILAT AREA OUTSIDE AIR RATE (CFM/SF) (Ra) 0.12 0.12 MREA OUTSIDE AIR RATE (CFM/SF) (Ra) 0.12 0.12 0.12 0.12 AREA OUTSIDE AIR RATE (CFM/SF) (Ra) 0.12 0	25 0.949 ION C VENTILATION ENESS (Ez) = OCCUPANT DENSITY #/1000 SF 25 0.886 ION C VENTILATION ENESS (Ez) = OCCUPANT DENSITY #/1000 SF 10 0.956 ION C VENTILATION ENESS (Ez) = OCCUPANT DENSITY #/1000 SF 10 0.956 ION C 25 5 10 0.956 ION C 25 10 0.956 ION C 10 0.956 ION C 10 10 10 10 10 10 10 10 10 10	26 Uncorn In Corrected 0.8 TOTAL PEOPLE (Pz) 27 2 Uncorn In Corrected 0.8 TOTAL PEOPLE (Pz) 21 Uncorn In Corrected 0.8 TOTAL PEOPLE (Pz) 21 Uncorn In Corrected 0.8	385 ected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) = CULATI BREATHING ZONE OUTSIDE AIR CFM (Vbz) 396 35 ected Outside Air take, CFM (Vou) = Outside Air Intake Air, CFM (Vot) = CULATI BREATHING ZONE OUTSIDE AIR CFM (Vbz) 350 ected Outside Air take, CFM (Vou) = CULATI BREATHING ZONE OUTSIDE AIR CFM (Vbz) 350 ected Outside Air Intake AIR CFM (Vbz) 350 ected Outside Air Intake AIR CFM (Vou) = CULATI BREATHING ZONE OUTSIDE AIR CFM (Vbz) 350 ECTED OUTSIDE AIR CFM (Vbz) 351 BREATHING ZONE OUTSIDE AIR CFM (Vbz) 351 BREATHING ZONE OUTSIDE AIR CFM (Vbz) 351 BREATHING ZONE OUTSIDE AIR CFM (Vbz) 311 35	481 385 406 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM (Voz) 495 44 431 487 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM (Voz) 437 350 365 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM (Voz) 437 350 365 ONS OCCUPANT ERSITY (D) = ZONE OUTSIDE AIR CFM (Voz) 437 350 365 ONS OCCUPANT ERSITY (D) =	0.253 <<<< <oa Sum Corrected O % of (OA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 0.330 0.088 <<<<<oa Sum Corrected O % of (OA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 0.218 <<<<<oa Sum Corrected O % of (OA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 0.218 <<<<<oa Sum Corrected O % of (OA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 0.218 <<<<<oa Sum Corrected O % of (DA) 100% PRIMARY OUTSIDE AIR FRACTION (Zp) 0.218 <<<<<oa Sum Corrected O % of (DA) 0.218 Corrected O % of (DA) 0.218 CO (ZD) 0.231 0.138</oa </oa </oa </oa </oa </oa 	260 260 utside Air as Supply Air = OUTSID SUMM PEOPLE OUTSIDE AIR CFM 268 10 278 utside Air as Supply Air = OUTSID AIR CFM 103 103 103 103 103 Utside Air as Supply Air = OUTSID AIR CFM 200 103 103 103 103 103 103 103 1	125 125 21.4% DE AIR MARY ROOM OUTSIDE AIR CFM 128 25 153 24.3% DE AIR MARY ROOM OUTSIDE AIR CFM 247 18.3% DE AIR MARY ROOM OUTSIDE AIR CFM 247 18.3% DE AIR MARY 101 25
Project: Location: RTU AIR SYS ROOM NUMBER 3, (1) 4, (2) Project: Location: RT AIR SYS ROOM NUMBER 42 Project: Location: RT AIR SYS ROOM NUMBER 38 39 Project:	TFSD Harrison E Upgrade Twin Falls, Idaho 25,26 STEM TAG ROOM NAME CLASSROOM TEACHERS STATION TFSD Harrison E Upgrade Twin Falls, Idaho U 27 STEM TAG ROOM NAME LIBRARY TFSD Harrison E Upgrade Twin Falls, Idaho U 28 STEM TAG CLASSROOM TEACHERS STATION	EDUCATION ROOM OCCUPANC PRIMARY EDUCATION OFFICES ROOM OCCUPANC PRIMARY PUBLIC SPACES ROOM OCCUPANC PRIMARY EDUCATION CFFICE ROOM OCCUPANC ROOM OCCUPANC ROM	CLASSROOMS (AGES 5-8) Total Supp Critical Zone Fraction OUTS Y CLASSIFICATON SECONDARY CLASSROOMS (AGES 5-8) OFFICE SPACE Total Supp Critical Zone Fraction OUTS Y CLASSIFICATON SECONDARY LIBRARIES Total Supp Critical Zone Fraction OUTS Y CLASSIFICATON SECONDARY LIBRARIES Total Supp Critical Zone Fraction OUTS Y CLASSIFICATON SECONDARY CLASSIFICATON SECONDARY	1,041 all Air CFM = e Outside Air m (MAX Zp) = IDE / Code ZONE AREA (SF) 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KEYNOTES M5 DEMOLISH STEAM BOILERS, CONDENSATE PUMPS, PNEUMATIC CONTROLS AIR COMPRESSOR, CONDENSATE RECEIVER AND WATER TREATMENT. DEMOLISH ALL ASSOCIATED STEAM AND CONDENSATE PIPING TO THE GREATEST EXTENT POSSIBLE. M12 DEMOLISH THERMOSTAT CONNECTED TO EXISTING UNIT BEING DEMOLISHED. M21 DEMOLISH AND CAP GAS PIPING TO STEAM BOILERS. GAS TO WATER HEATERS TO REMAIN.

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KEYNOTES

- M1
 DEMOLISH EXISTING UNIT VENTILATOR. DEMO ACCESSIBLE ASSOCIATED PIPING AND CAP EXISTING STEAM PIPING IN WALL (TYP.)

 M2
 DEMOLISH LOUVER AND INSTALL SHEET METAL COVER WITH INSULATION. RE: ARCHITECTURAL (TYP.)

 M3
 DEMOLISH CABINET UNIT HEATER. DEMO ACCESSIBLE ASSOCIATED PIPING AND CAP EXISTING STEAM PIPING IN WALL (TYP.)

 M4
 DEMOLISH AND CAP BOILER FLUE.
- M10DEMOLISH ALL DUCTWORK, PIPING AND AIR DEVICES SERVED BY
EXISTING ROOFTOP UNIT.M11DEMOLISH CABINET UNIT HEATER IN CEILING AND ALL ACCESSIBLE
ASSOCIATED PIPING.
- M14 DEMOLISH ALL DUCTWORK AND AIR DEVICES SERVED BY EXISTING ROOFTOP UNIT.

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- I. Warm Up: The BAS shall calculate the required warm up time based on the zone's occupied heating setpoint, the current zone temperature, the outdoor air temperature, and a mass/capacity factor for each zone. The mass factor shall be manually adjusted or self-tuned by the BAS. If automatic, the tuning process shall be turned on or off by a software switch, to allow tuning to be stopped after the system has been trained. Warmup Mode shall start based on the zone with the longest calculated warm up time requirement, but no earlier than 3 hours before the start of the scheduled occupied period and shall end at the scheduled
- Night Setback Mode: During Unoccupied Mode operate the air handling unit to maintain zone temperatures. a. NSB Heating: if the zone falls below the unoccupied heating setpoints, the AHU shall enter Setback Mode until the zone is 1. The OA damper shall be closed in NSB mode that unit shall operate in 100% return air mode
- b. NSB cooling: if the zone temperature rises above their unoccupied cooling setpoints the AHU shall enter Night Setback 1. The OA damper shall be closed in NSB mode that unit shall operate in 100% return air mode unless outside air temperature is below the supply air temperature setpoint. Then outside air shall be utilized for cooling

- 2. Generate a high building pressure alarm if the building static pressure is more than 0.10": Level 3 3. Generate a low building pressure alarm if the building is negative(less than 0.0"),: Level 4 4. Generate a heating failure alarm if the supply air temperature is 15 deg F below the setpoint: Level 2. If the supply air temperature is less than 40 deg F, shut the unit down until the low temp alarm is reset by an operator.
- 5. Generate a cooling failure alarm if the supply air temperature is 15 deg F above the setpoint: Level 2

DIAGRAM NOTES:

- 1. ROOFTOP UNIT SHALL BE PROVIDED WITH FACTORY TERMINAL STRIP (BASIS OF DESIGN: MICROMETL DRY BULB ECONOMIZER) FOR FIELD INSTALLED CONTROLS BY TEMPERATURE CONTROLS CONTRACTOR.
- 2. CONTROLS CONTRACTOR SHALL FURNISH AND INSTALL ALL DDC HARDWARE TO MEET THE REQUIREMENTS OF THE
- SEQUENCES OF OPERATION PROVIDED. 3. DAMPERS AND ACTUATORS SHALL BE FURNISHED BY THE ROOFTOP UNIT MANUFACTURER UNLESS OTHERWISE NOTED.

SEQUENCE OF OPERATION:

SINGLE-ZONE VARIABLE AIR VOLUME ROOF TOP UNITS:

- A. Supply Fan Control and Supply Air Temperature Setpoint Reset 1. The supply fan shall run whenever the unit is in any mode other than Unoccupied Mode.
- 2. Provide a ramp function to prevent changes in fan speed of more than 10% per minute.
- 3. If the unit is equipped with a VFD, Fan speeds shall be as follows: a. Fan speed shall be reset linearly based on space temperature.
- b. When space is satisfied operate at Min-speed. As the heating or cooling loop increases increase fan speed correspondingly to max speed (heating or cooling).
- c. Max Heating speed shall be 75% (adj) d. Max Cooling Speed shall be 100% (adj)
- B. Minimum and maximum supply air temperature setpoints shall be as follows:
- 1. The Deadband values of SATsp shall be the average of the zone heating setpoint and the zone cooling setpoint, but shall be no lower than 70°F and no higher than 75°F. 2. When the supply fan is proven on, fan speed and supply air temperature setpoints are controlled as shown in the following diagrams and text. The points of transition along the x-axis shown and described below are representative. Contractor shall

- a. Fan Speed Control (As applicable): 1. For a Heating Loop signal of 100% - 0%, fan speed is reset from MaxHeatSpeed to MinSpeed.
- 2. In Deadband, fan speed setpoint is MinSpeed. 3. For a Cooling Loop signal of 0% - 100%, fan speed is reset from MinSpeed to MedSpeed.
- b. Supply Air Temperature Setpoint: 1. For a Heating Loop signal of 100% - 50%, SATsp is 100 deg F (adj).
- 2. For a Heating Loop signal of 50% 0%, SATsp is reset from 100 deg F(adj) to the Deadband value (~70 deg F as described above). 3. In Deadband, SATsp is the Deadband value.
- For a Cooling Loop signal of 0% 75%, SATsp is reset from the Deadband value to 55 deg F.
 For a Cooling Loop signal above 75%, SATsp is unchanged at 55deg F, the supply fan speed continues to increase to additional cooling capacity.
- C. Outdoor Air Damper Control
- 1. Modulate the air damper shall be modulated to the greater of the economizer command or the ventilation command. 2. An economizer control loop shall modulate the outdoor air damper open to meet the supply air temperature setpoint anytime the
- unit is in cooling mode and the outdoor air temperature is less than the return air temperature. 3. Ventilation command is determined based on zone level CO2 feedback. The ventilation rate is reset linearly between MinVent and MaxVent based on the number of zones that have a high CO2 concentration.
- 4. Minimum Outdoor airflow shall be controlled by monitoring the mixed air temperature and modulating the outdoor air damper to achieve the ventilation setpoint. The volume of outdoor air is determined by a weighted ratio of the return and outdoor air temperatures. The BAS shall evaluate the actual temperatures and calculate the appropriate ratio every 15min (minimum) and modulate the outdoor air damper to achieve the required volume of outdoor air (based on the calculated mixed air temperature). a. The Outdoor Air Volume is calculated as follows:
- 1. % OUTSIDE AIR = (TEMP_{MIX} TEMP_{RETURN}) / (TEMP_{OUTDOOR AIR} TEMP_{RETURN}) 2. OUTDOOR AIR VOLUME = %OA * UNIT CAPACITY * (SUPPLY FAN SPEED / 100)
- b. The outdoor air volume setpoint shall be reset between the absolute minimum and the ventilation maximum (see
- mechanical schedule for setpoints). c. When zones are calling for additional ventilation air (CO2 control loop >50% as defined in the VAV sequence of operation) then utilize a trim and response reset algorithm to adjust the minimum ventilation setpoint between the absolute minimum

- D. Economizer Lockout 1. The outside will be utilized for free cooling anytime the supply air temperature setpoint is less than return temperature and the return temperature is greater than the outside air temperature by at least 2 deg F. If the outside air temperature is greater than the return air temperature disable the economizer. a. Modulate the outside air damper to maintain a mixed air temperate 2 deg F below the supply air temperature setpoint when
- the economizer is enabled 2. Once the economizer is disabled, it shall not be re-enabled within 10 minutes and vice versa.
- E. Relief Fan and Building Static Pressure Control 1. Relief Fan Control – Building Pressure Control
 - a. Relief fan operates whenever associated supply fan is proven on. b. Relief fan speed shall be controlled to maintain building static pressure at setpoint. The setpoint shall be determined during balancing (utilize +0.04 iwc as the base condition). This setpoint should be determined in 100% economizer mode and should result in a slightly positive building in that mode.

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RIPTION	ABBR.	SYMBOL	DESCRIPTION
			CAP END OF PIPE
		SLOPE	PITCH DOWN IN DIRECTION OF ARROW
L I		—×—	PIPE ANCHOR
TION			PIPE ALIGNMENT GUIDE
SHEET			UNION OR FLANGE
ATION			CONCENTRIC PIPE REDUCER
(UNIT SERVED - FLOOR -			ECCENTRIC PIPE REDUCER
	PRV		PRESSURE REDUCING VALVE
	PTRV		PRESSURE AND/OR TEMPERATURE RELIEF VALVE
CATION			ISOLATION VALVE (RE: SPEC FOR TYPE)
AMETER			VERTICAL PIPE VALVE
	CV	ī	CHECK VALVE
TIVE ELEMENT LENGTH		&	SOLENOID / MOTORIZED VALVE
CATION		₩	SOLENOID VALVE
NGTH (OR W-W=WALL-TO-WALL)		—дн	HOSE END DRAIN VALVE
	P/T	<u> </u>	PRESSURE / TEMPERATURE TAP
EQUIPMENT REFERENCE			STRAINER
E (TOP = RM #, BOTTOM = FLR)			STRAINER W/ BLOWDOWN
W TO EXISTING			BRAIDED FLEXIBLE PIPE CONNECTOR
, DEMO			DOUBLE-BOWL FLEXIBLE PIPE CONNECTOR
E		φ	THERMOMETER
QUIPMENT TO BE REMOVED		<u> </u>	PRESSURE GAUGE
			SIGHT GLASS
	C.A.P.	M	CEILING ACCESS PANEL
			PUMP
	ТВ		THRUST BLOCK
	MAV		MANUAL AIR VENT
	AAV	<u></u>	AUTOMATIC AIR VENT
2		1	
E	1	1	
	1	1	
		1	

	PLUMBING LEGEND (Not all symbols listed below are used on these drawings)							
ABBR.	SYMBOL	DESCRIPTION	ABBR.	SYMBOL	DESCRIPTION			
CW	CW	DOMESTIC COLD WATER PIPING	GCO/SCO	\bigcirc	GRADE CLEANOUT / SURFACE CLEANOUT			
HW	– –HW	DOMESTIC HOT WATER PIPING	FCO	•	FLOOR CLEANOUT			
HWC	——————————————————————————————————————	DOMESTIC HOT WATER CIRC PIPING	WCO	о	WALL CLEANOUT			
CW-S	CW-S_	SOFTENED DOMESTIC COLD WATER PIPING	CO	_ك_	LINE CLEANOUT			
HW-S	—— – – —HW-S–	SOFTENED DOMESTIC HOT WATER PIPING	AD	0	AREA DRAIN			
140°F HW	—— – – – 140°F HW	DOMESTIC HOT WATER PIPING @ TEMP SHOWN	FD	\oslash	FLOOR DRAIN			
140°F HWC	—————————————————— ——————————————————	DOMESTIC HOT WATER CIRC PIPING @ TEMP SHOWN	FS		FLOOR SINK			
TW	——————————————————————————————————————	TEPID WATER PIPING	RD / OD	0	ROOF DRAIN OR OVERFLOW DRAIN			
TWC		TEPID WATER CIRC PIPING						
ICW	——————————————————————————————————————	INDUSTRIAL COLD WATER PIPING	VB	f	ATMOSPHERIC VACUUM BREAKER			
IHW	——————————————————————————————————————	INDUSTRIAL HOT WATER PIPING	BFP	¥77¥	BACKFLOW PREVENTER			
IHWC	— – – – – IHWC–	INDUSTRIAL HOT WATER CIRC PIPING	SA		SHOCK ARRESTOR W / ISOLATION VALVE			
NPCW		NON-POTABLE COLD WATER PIPING	GC		GAS SHUT-OFF VALVE			
NPHW	—— – – – NPHW–	NON-POTABLE HOT WATER PIPING		ф	STOP AND DRAIN VALVE			
NPHR		NON-POTABLE HOT WATER CIRC PIPING	BV	¥	BALANCING VALVE			
V	·V·	VENT PIPING	WH	+-	WALL HYDRANT			
AV	AV	ACID RESISTANT VENT PIPING	HB	+	HOSE BIBB			
W	w	WASTE PIPING	RH		ROOF HYDRANT			
W	— —w— —	WASTE PIPING BELOW FLOOR	YH		YARD HYDRANT			
AW	AW	ACID RESISTANT WASTE PIPING	DSN	¢	DOWNSPOUT NOZZLE			
AW	— -AW- —	ACID RESISTANT WASTE PIPING BELOW FLOOR	МН		MANHOLE			
GW	GW	GREASE WASTE (TO GREASE INTERCEPTOR)	CI		CAST IRON			
GW	— -gw- —	GREASE WASTE PIPING BELOW FLOOR	СВ		CATCH BASIN			
SD	SD	STORM DRAIN PIPING	VTR		VENT THRU ROOF			
SD	— — — SD— —	STORM DRAIN PIPING BELOW FLOOR	IE		INVERT ELEVATION			
OD	OD	OVERFLOW DRAIN PIPING	PVC		POLYVINYL CHLORIDE			
OD	— -od- —	OVERFLOW DRAIN PIPING BELOW FLOOR						
CA	CA	COMPRESSED AIR						
G	G	NATURAL GAS PIPING						

PLUMBING SPECIALTY SCHEDULE

NOTES: 1. COORDINATE WITH ROOF/WALL CONSTRUCTION FOR EACH FIXTURE.

DESIG.	FIXTURE TYPE	LOCATION	MANUFACTURER	MODEL #	
DSN-1	DOWNSPOUT NOZZLE WITH HINGED COVER	EXTERIOR WALL	J.R. SMITH	1775-CP	CHROM
OD-1	OVERFLOW ROOF DRAIN	ROOF	J.R. SMITH	1070	CAST IRON DRAIN WITH CAST IRON
RD-1	ROOF DRAIN	ROOF	J.R. SMITH	1010	CAST IRON DRAIN WITH CAST IRON

 	-	 	-	-	 -	 -
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REMARKS IE PLATED BRASS FINISH WITH WALL FLANGE DOME STRAINER, PROVIDE DECK CLAMP ASSEMBLY & DRAIN RECEIVE ASSEMBLY AS REQUIRED DOME STRAINER, PROVIDE DECK CLAMP ASSEMBLY & DRAIN RECEIVER

ASSEMBLY AS REQUIRED

GENERAL NOTES:

1. WORK INCLUDED IN THE CONTRACT IS DENOTED IN BOLD. EXISTING CONDITIONS TO REMAIN ARE DENOTED LIGHTLY.

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- 2. A DETAILED METHOD OF PROCEDURE IS REQUIRED WHEN A CONSTRUCTION ACTIVITY AFFECTS THE SAFETY OF THE OCCUPANTS, OWNER'S EQUIPMENT OR VALUABLE CONTENTS OR ANY SYSTEM WHICH SUPPORTS THESE SYSTEMS; OR ESSENTIALLY AFFECTS THE BUILDING MANAGEMENT, OPERATIONS OR SECURITY.
- 3. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY WORK AND SHALL NOTIFY THE ENGINEER/ARCHITECT OF ANY DISCREPANCIES FOR RESOLUTION.
- 4. COORDINATE WORK WITH ALL TRADES.
- 5. CONTRACTOR IS RESPONSIBLE FOR SECURING AND WEATHERPROOFING ANY ROOF OPENING NOT COMPLETED DURING WORKING HOURS. 6. COORDINATE ALL PIPING WITH EQUIPMENT, STRUCTURE, ETC.
- 7. CONTRACTOR SHALL NOT SHUT DOWN / TAKE OUT OF SERVICE ANY SYSTEMS WITHOUT FIRST COORDINATING WITH OWNER AND PREPARING M.O.P.

PLUMBING NOTES:

- 1. CONTRACTOR SHALL NOT SHUT-OFF/PUT OUT OF SERVICE ANY SYSTEMS/SERVICES WITHOUT FIRST COORDINATING WITH OWNER.
- 2. THIS CONTRACTOR SHALL COORDINATE LOCATIONS OF PIPING WITH OTHER TRADES AND ADVISE ARCHITECT/ENGINEER OF ANY POSSIBLE CONFLICTS. VERIFY EXACT LOCATIONS, ELEVATIONS AND DIMENSIONS OF STRUCTURAL MEMBERS AND OPENINGS.
- 3. SEE PLUMBING FIXTURE SCHEDULE FOR PIPE SIZING TO INDIVIDUAL PLUMBING FIXTURES.
- 4. ALL EXISTING FIXTURES AND EQUIPMENT TO BE REMOVED SHALL HAVE ALL ASSOCIATED PIPING CONTROLS, HANGERS, SUPPORTS AND ANY MISCELLANEOUS ASSOCIATED SERVICE OR PART REMOVED COMPLETELY.
- 5. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF PENETRATION DETAILS. 6. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE ELEVATIONS AND
- LOCATIONS. 7. INVERT ELEVATIONS SHOWN ARE BASED ON A GROUND FLOOR FINISH ELEVATION OF 100 FT.
- 8. SEE ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR DIMENSIONED LOCATION OF PLUMBING FIXTURES AND WALLS.
- 9. PROVIDE CLEANOUTS IN ACCESSIBLE LOCATIONS PER THE PROJECT SPECIFICATIONS AND LOCAL PLUMBING CODES.

DEMOLITION GENERAL NOTES:

- 1. EXISTING ITEMS TO REMAIN ARE DENOTED LIGHTLY UNLESS OTHERWISE NOTED. ALL ITEMS SHOWN DASHED & BOLD SHALL BE REMOVED UNLESS OTHERWISE NOTED.
- 2. CONTRACTOR SHALL NOT SHUT-OFF OR PUT-OUT OF SERVICE ANY SYSTEMS OR SERVICE WITHOUT FIRST COORDINATING WITH THE OWNER.
- 3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE AND UNDERSTAND THE EXTENT OF THE REMODEL WORK REQUIRED PRIOR TO BID. NO EXTRAS WILL BE ALLOWED FOR WORK REQUIRED TO ACHIEVE THE END RESULT AS INDICATED BY THE CONTRACT DOCUMENT.
- 4. CONTRACTOR SHALL DETERMINE AND COORDINATE THE EXACT EXTENT OF DEMOLITION TO FACILITATE ALL WORK INDICATED BY THE CONTRACT DOCUMENT.
- 5. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOR

RESOLUTION.

- 6. ALL ITEMS IDENTIFIED TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY UNLESS OTHERWISE NOTED. REMOVED ITEMS SHALL BE TURNED OVER TO THE OWNER UNLESS OTHERWISE NOTED AND STORED IN THE AREA DESIGNATED BY THE OWNER. REMOVE FROM SITE AND LEGALLY DISPOSE OF ALL ITEMS THE OWNER CHOOSES NOT TO ACCEPT.
- 7. WHERE EXISTING PIPING, WIRING ETC. ARE TO BE REMOVED FROM WALLS WHICH ARE REMAINING, THE WALLS SHALL BE REPAIRED TO MATCH ORIGINAL CONDITIONS.
- 8. WHERE EXISTING PIPING TO BE REMOVED PASSES THROUGH FLOORS, THEY SHALL BE CUT BACK TO WITHIN CONCRETE AND FILLED WITH GROUT TO ACHIEVE A SMOOTH AND EVEN FINISH WITH CONCRETE SURFACE.

FIRE PROTECTION NOTES:

- 1. FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE INSTALLATION OF A COMPLETE AND PROPERLY FUNCTIONING FIRE PROTECTION SYSTEM.
- 2. THE FIRE PROTECTION WORK INVOLVES ENGINEERING AND DESIGN BY THE CONTRACTOR TO DETERMINE THE EXTENT OF NEW WORK AND THE MODIFICATION AND EXTENSION OF EXISTING SYSTEMS TO PROVIDE FULL COVERAGE TO THE PROJECT AREA SHOWN ON THESE AND THE ARCHITECTURAL PLANS.
- 3. THE INFORMATION PRESENTED ON THESE DRAWINGS IS DIAGRAMMATIC. IT DOES NOT NECESSARILY REPRESENT ALL ELBOWS, OFFSETS, HANGERS, ETC., REQUIRED FOR A COMPLETE WORKING SYSTEM.
- 4. ALL FIRE PROTECTION SYSTEMS INSTALLED SHALL BE IN ACCORDANCE WITH NFPA-13, 14, 20, ETC. AND LOCAL BUILDING CODES AND ORDINANCES.
- 5. FIRE PROTECTION CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL NEW FIRE PROTECTION EQUIPMENT AND PIPING WITH ALL OTHER TRADES PRIOR TO SUBMITTAL OF SHOP DRAWINGS AND SYSTEM INSTALLATION, SO AS NOT TO INTERFERE WITH THE ROUTING OF NEW DUCTWORK, PLUMBING PIPING, ETC.
- 6. PROVIDE ALL FITTINGS, RISER NIPPLES, ARM-OVERS, HANGERS, ETC. TO MAINTAIN CONFORMANCE WITH APPLICABLE STANDARDS AND TO POSITION THE SPRINKLERS IN THE PROPER LOCATIONS. 7. SEAL ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS AND CEILINGS
- WITH FIRE STOPPING MATERIALS AS REQUIRED. 8. FOR REMODEL AREAS NEW SPRINKLERS SHALL MATCH EXISTING SPRINKLERS.
- 9. PROVIDE WORKING DRAWINGS AND HYDRAULICALLY CALCULATE THIS FIRE SPRINKLER SYSTEM PER NFPA-13 WHERE REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- 10. PROVIDE FIELD COORDINATION OF PIPING AND SPRINKLER INSTALLATIONS WITH DUCTWORK, LIGHTS, SMOKE DETECTORS, DIFFUSERS, ETC.

FIRE PROTECTION DENSITIES:

1. ALL ROOMS TO BE LIGHT HAZARD UNLESS NOTED OTHERWISE ON THE PLANS. LIGHT HAZARD, 0.1 GPM OVER 1,500 SQ.FT

OH2 XH1 XH2

OH1 ORDINARY HAZARD GROUP 1, 0.15 GPM OVER 1,500 SQ.FT ORDINARY HAZARD GROUP 2, 0.2 GPM OVER 1,500 SQ.FT EXTRA HAZARD, GROUP 1, 0.3 GPM OVER 2,500 SQ.FT EXTRA HAZARD, GROUP 2, 0.4 GPM OVER 2,500 SQ.FT

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		(Not all symbols listed below	LEGE	ND hese drawings)	
ABBR.	SYMBOL	DESCRIPTION	ABBR.	SYMBOL	DESCRIPTION
					CAP END OF PIPE
				SLOPE	PITCH DOWN IN DIRECTION OF ARROW
		- Section Cut on this sheet		—×—	PIPE ANCHOR
		- VIEW REFERENCE DESIGNATION			PIPE ALIGNMENT GUIDE
		- VIEW REFERENCE ON THIS SHEET			UNION OR FLANGE
		- EQUIPMENT UNIT IDENTIFICATION			CONCENTRIC PIPE REDUCER
	1-2-3	EQUIPMENT UNIT NUMBER (UNIT SERVED - FLOOR - — SEQUENCE #)			ECCENTRIC PIPE REDUCER
	10 -	- DIFFUSER IDENTIFICATION	PRV		PRESSURE REDUCING VALVE
	A 250	— DIFFUSER NECK DIAMETER — DIFFUSER CFM	PTRV	<u>_</u>	PRESSURE AND/OR TEMPERATURE RELIEF VALVE
		- LINEAR DIFFUSER IDENTIFICATION			ISOLATION VALVE (RE: SPEC FOR TYPE)
	8ø/24"L	- LINEAR DIFFUSER NECK DIAMETER		A	VERTICAL PIPE VALVE
	9999	- LINEAR DIFFUSER CFM	CV	ī	CHECK VALVE
		- FINNED TUBE RADIATOR ACTIVE ELEMENT LENGTH		——————————————————————————————————————	SOLENOID / MOTORIZED VALVE
	2'-6" FTR				SOLENOID VALVE
		- RADIATOR ENCLOSURE LENGTH (OR W-W=WALL-TO-WALL)		—-д	HOSE END DRAIN VALVE
	$\langle \rangle$	KEY NOTE REFERENCE	P/T	<u>T P/T</u>	PRESSURE / TEMPERATURE TAP
		KITCHEN/OWNER/MEDICAL EQUIPMENT REFERENCE			STRAINER
		TYPICAL ROOM REFERENCE (TOP = RM #, BOTTOM = FLR)			STRAINER W/ BLOWDOWN
) •	POINT OF CONNECTION, NEW TO EXISTING			BRAIDED FLEXIBLE PIPE CONNECTOR
		POINT OF DISCONNECTION, DEMO			DOUBLE-BOWL FLEXIBLE PIPE CONNECTOR
		DIRECTION OF FLOW IN PIPE		μ	THERMOMETER
	[:::::]	DUCTWORK, PIPING AND EQUIPMENT TO BE REMOVED			PRESSURE GAUGE
(E)		EXISTING		O	SIGHT GLASS
(N)		NEW	C.A.P.		CEILING ACCESS PANEL
(R)		RELOCATED			PUMP
(F)		FUTURE	ТВ		THRUST BLOCK
DIA	Ø	DIAMETER	MAV		MANUAL AIR VENT
WAD		WALL ACCESS DOOR	AAV		AUTOMATIC AIR VENT
NIC		NOT IN CONTRACT			
AFF		ABOVE FINISHED FLOOR			
GC		GENERAL CONTRACTOR			
MC		MECHANICAL CONTRACTOR			
EC		ELECTRICAL CONTRACTOR			
UNO		UNLESS NOTED OTHERWISE			
С		COMMON			
NC		NORMALLY CLOSED			
NO		NORMALLY OPEN			
	•			•	

	FIRE PROTECTION LEGEND (Not all symbols listed below are used on these drawings)									
ABBR.	SYMBOL	DESCRIPTION	ABBR.	SYMBOL	DESCRIPTION					
F	——F——	FIRE SERVICE PIPING		\bullet	NEW SPRINKLER HEAD					
O.S.&Y.	—	O.S.&Y. GATE VALVE W/ TAMPER SWITCH		0	EXISTING SPRINKLER HEAD					
FS		FLOW SWITCH		●	RELOCATED SPRINKLER HEAD					
PIV	<u> </u>	POST INDICATOR VALVE			SIDEWALL SPRINKLER HEAD					
FDC	\prec	FIRE DEPARTMENT CONNECTION		D24	DRY SPRINKLER HEAD (SHAFT LENGTH)					
			FHC		FIRE HOSE CABINET					
			FVC		FIRE VALVE CABINET					
			A/S		AUTOMATIC FIRE SPRINKLER					

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FIRE PROTECTION NOTES:

- 1. FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE INSTALLATION OF A COMPLETE AND PROPERLY FUNCTIONING FIRE PROTECTION SYSTEM.
- 2. THE FIRE PROTECTION WORK INVOLVES ENGINEERING AND DESIGN BY THE CONTRACTOR TO DETERMINE THE EXTENT OF NEW WORK AND THE MODIFICATION AND EXTENSION OF EXISTING SYSTEMS TO PROVIDE FULL COVERAGE TO THE PROJECT AREA SHOWN ON THESE AND THE ARCHITECTURAL PLANS.
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- 6. PROVIDE ALL FITTINGS, RISER NIPPLES, ARM-OVERS, HANGERS, ETC. TO MAINTAIN CONFORMANCE WITH APPLICABLE STANDARDS AND TO POSITION THE SPRINKLERS IN THE PROPER LOCATIONS.
- 7. SEAL ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS AND CEILINGS WITH FIRE STOPPING MATERIALS AS REQUIRED.
- 8. FOR REMODEL AREAS NEW SPRINKLERS SHALL MATCH EXISTING SPRINKLERS. 9. PROVIDE WORKING DRAWINGS AND HYDRAULICALLY CALCULATE THIS FIRE SPRINKLER SYSTEM PER NFPA-13 WHERE REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- 10. PROVIDE FIELD COORDINATION OF PIPING AND SPRINKLER INSTALLATIONS WITH DUCTWORK, LIGHTS, SMOKE DETECTORS, DIFFUSERS, ETC.

FIRE PROTECTION DENSITIES:

- 1. ALL ROOMS TO BE LIGHT HAZARD UNLESS NOTED OTHERWISE ON THE PLANS.
- LIGHT HAZARD, 0.1 GPM OVER 1,500 SQ.FT OH1 ORDINARY HAZARD GROUP 1, 0.15 GPM OVER 1,500 SQ.FT OH2 ORDINARY HAZARD GROUP 2, 0.2 GPM OVER 1,500 SQ.FT XH1 EXTRA HAZARD, GROUP 1, 0.3 GPM OVER 2,500 SQ.FT XH2 EXTRA HAZARD, GROUP 2, 0.4 GPM OVER 2,500 SQ.FT

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	POWER (Not all symbols listed below		D base drawings)	(Not all symbols listed below are used on these drawings)			
SYMBOL				SYMBOL			
ΨΨΨΨ						$\underline{\overline{E}}$	
	DOUBLE DUPLEX RECEPTACLE; WALL, CEILING, FLOOR MOUNTED		WIREMOLD (SURFACE RACEWAY)) TG# (TYPICAL LUMINAIRE TYPE		EXISTING TO BE REMOVED
	SPECIAL RECEPTACLE; WALL, CEILING, FLOOR MOUNTED				TYPICAL ROOM REFERENCE (TOP = RM #, BOTTOM = FLR)		EXISTING TO BE RELOCATED
<u>9</u> 00	JUNCTION BOX; WALL, CEILING, FLOOR MOUNTED	— —UG— —	AS ALLOWED PER SPECIFICATIONS		MECHANICAL EQUIPMENT REFERENCE	<u> </u>	EXISTING TO REMAIN - REPLACE DEVICE
♀ ∅	DUPLEX RECEPTACLE, HALF CONTROLLED		CONDUIT TURNING DOWN	(LC1)	LIGHTING CONTROL / EQUIPMENT REFERENCE	<u>k</u> R	EXISTING TO BE REMOVED AND REPLACED
• • •	DUPLEX RECEPTACLE, FULL CONTROLLED	– 0	CONDUIT TURNING UP	<u>LC1</u>	ELECTRICAL ACCESSORIES REFERENCE		
	DOUBLE DUPLEX RECEPTACLE, HALF CONTROLLED		CONDUIT CAPPED				
♀ ♦ ⊕	DOUBLE DUPLEX RECEPTACLE, FULL CONTROLLED	0-0	GROUND BAR				GEND
Ф _{A-1}	SHADING INDICATES EMERGENCY SYSTEM		MAIN SWITCHBOARD/DISTRIBUTION CENTER		(Not all symbols listed below	v are used on the	hese drawings)
Ъ	DISCONNECT SWITCH (NON-FUSED)	Т	TRANSFORMER	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
D	DISCONNECT SWITCH (FUSED)	СТ	CURRENT TRANSFORMER	А	AMPERES	MCP	MOTOR CIRCUIT PROTECTOR
	VARIABLE SPEED DRIVE WITH DISCONNECT		THERMOSTAT	AC	ABOVE COUNTER, MOUNT HORIZONTALLY TO CENTERLINE OF DEVICE,	MEC	SEE MECHANICAL EQUIPMENT SCHEDULE
	ENCLOSED CIRCUIT BREAKER	GANN	GENERATOR ANNUNCIATOR PANEL	AFF	ABOVE COUNTER ON BACK SPLASH ABOVE FINISHED FLOOR	MIN	MINIMUM
 				AFG	ABOVE FINISHED GRADE	MLO	MAIN LUGS ONLY
						MTS	
			POWER POLE			NC	
						NC	
	CONTROL	S LEGE	ND	ASSD		NIC	
	(Not all symbols listed below	v are used on th	nese drawings)	ATS	AUTOMATIC TRANSFER SWITCH	NL	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	BFG	BELOW FINISHED GRADE	NO	NORMALLY OPEN
Sa	SINGLE POLE SWITCH (SUBSCRIPT DENOTES SWITCHING)	S _{VS}	VARIABLE SPEED/SPEED CONTROLLER SWITCH	C	CONDUIT	NTS	NOT TO SCALE
S ₂	TWO POLE SWITCH	S _{EP}	EXPLOSION PROOF SWITCH	CATV	CABLE TELEVISION	OC	ON CENTER
S ₃	THREE-WAY SWITCH	s _{to}	THERMAL OVERLOAD SWITCH	СВ	CIRCUIT BREAKER	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
S ₄	FOUR-WAY SWITCH	S _{MC}	MOMENTARY CONTACT SWITCH	CCTV	CLOSED CIRCUIT TELEVISION	OFOI	OWNER FURNISHED, OWNER INSTALLED
s _κ	KEY OPERATED SWITCH	Q s	COMBINATION SWITCH AND DUPLEX RECEPTACLE	(E)	EXISTING	OSWF	ON SITE WORK FORCE
S _M	MANUAL SWITCH, HORSEPOWER RATE	P	PHOTOCELL	EM	EMERGENCY	РВ	PULL BOX
SD	DIMMER SWITCH	•	PUSH BUTTON	EMDC	EMERGENCY MAIN DISTRIBUTION CENTER	SB	STAND-BY
S _{PI}		TC	TIME CLOCK	EP	EXPLOSION PROOF	SDC	SUB-DISTRIBUTION CENTER
Sp	SWITCH WITH PILOT LIGHT LOCATOR	Ē	OCCUPANCY SENSOR - WALL MOUNTED	EPO	EMERGENCY POWER OFF	TP	TAMPER PROOF
S _{LV}	LOW VOLTAGE SWITCH		IK=INFRARED, US=ULTRASUNIC, DT=DUAL TECHNOLOGY	EVO	EMERGENCY VENTILATION ON/OFF	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
				EWC	ELECTRIC WATER COOLER	TYP	TYPICAL
				FA	FIRE ALARM	UF	
	LIGHTINC	JEGE	ND	G	GROUND		
		v are used on t					
SYMBOL		SYMBOL	DESCRIPTION				
a A	INDICATES SWITCHING, UPPER CASE SUBSCRIPT INDICATES	\odot	PENDANT LUMINAIRE - SINGLE SUSPENSION	GFCI		UPS	
	LUMINAIRE TYPE (TYP)			HOA	HAND OFF AUTOMATIC	V	
	TROFFER - RECESSED	\odot	PENDANT LUMINAIRE - MULTIPLE SUSPENSION	IG	ISOLATED GROUND	VFD	VARIABLE FREQUENCY DRIVE
		••••		MAX	MAXIMUM	W/	WITH
0	SURFACE LUMINAIRE	<u> </u>		MCB	MAIN CIRCUIT BREAKER	W/O	WITHOUT
				MCC	MOTOR CONTROL CENTER	WP	WEATHER PROOF
<u></u>	LINEAR LUMINAIRE - RECESSED	চ ব	IN-WALL LUMINAIRE	MDC	MAIN DISTRIBUTION CENTER	XFMR	TRANSFORMER
[A]——		TT C				GRAMI	EGEND
B	SUBSCRIPT IN RECTANGLE INDICATES LUMINAIRE TYPE	T T			(Not all symbols listed below	v are used on th	hese drawings)
				SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
0	DOWNLIGHT - RECESSED	나사	POLE LUMINAIRE - POST TOP	_/_	DISCONNECT SWITCH	A	PANELBOARD "A"
				— /–	DISCONNECT SWITCH, FUSED	PM	EM=ENERGY METER, PM=POWER METER, CM=CIRCUIT MONITOR
	DOWNLIGHT - SURFACE		BOLLARD	_^_	CIRCUIT BREAKER		VOLTMETER TEST SWITCH
	EXIT SIGN - CEILING MOUNTED		TRACK HEAD AND TRACK		FUSE		AMMETER TEST SWITCH
8	EXIT SIGN - WALL MOUNTED (FLUSH TO WALL)	0~1	EXTERIOR STAKE MOUNTED	Ť	GROUND	\bigcirc	VOLTMETER
	EXIT SIGN - WALL MOUNTED (PROJECTS FROM WALL)			- 			
					K-RATED STEP DOWN TRANSFORMER		
↓ • • •					## INDICATES KVA, # INDICATES K RATING		
	INDICATES LATI SIGN CHEVRONS - LEFT/RIGHT OR BUTH						
					POTENTIAL TRANSFORMER		CONTACTOR/RELAY/CAPACITOR (AS NOTED)
]3₺ ᠬ	SERVICE ENTRANCE TRANSFORMER		TRANSFER SWITCH - ATS=AUTOMATIC, MTS=MANUAL
					METER	GFI	GROUND FAULT INTERRUPTER
					EQUIPMENT ENCLOSURE	SPD	SURGE PROTECTIVE DEVICE
				<≡	SERVICE WEATHERHEAD	()	SHUNT TRIP

POWER LEGEND (Not all symbols listed below are used on these drawings)				REFERENCE SYMBOLS LEGEND (Not all symbols listed below are used on these drawings)				
SYMBOL				SYMBOL				
Ψ			ELECTRICAL PANELBOARD, CONTROL PANEL, OR OTHER CABINET AS NOTED					
ΨΨΟΣ	DUPLEX RECEPTACLE; WALL, CEILING, FLOOR MOUNTED		PLUG MOLD (MULTI-OUTLET ASSEMBLY)				EXISTING TO REMAIN	
₩ ₩ ₩	DOUBLE DUPLEX RECEPTACLE; WALL, CEILING, FLOOR MOUNTED	► WM—I	WIREMOLD (SURFACE RACEWAY)	<u>) TG# (</u>	TYPICAL LUMINAIRE TYPE		EXISTING TO BE REMOVED	
9 8	SPECIAL RECEPTACLE; WALL, CEILING, FLOOR MOUNTED		CONDUIT CONCEALED		TYPICAL ROOM REFERENCE (TOP = RM #, BOTTOM = FLR)	<u>A</u>	EXISTING TO BE RELOCATED	
Q 0 0	JUNCTION BOX; WALL, CEILING, FLOOR MOUNTED	— —UG— —	CONDUIT, UNDERGROUND OR CONCEALED IN FLOOR AS ALLOWED PER SPECIFICATIONS	(UH)	MECHANICAL EQUIPMENT REFERENCE	Â	EXISTING TO REMAIN - REPLACE DEVICE	
(DUPLEX RECEPTACLE, HALF CONTROLLED	_●	CONDUIT TURNING DOWN	LC1	LIGHTING CONTROL / EQUIPMENT REFERENCE	RR	EXISTING TO BE REMOVED AND REPLACED	
0 0	DUPLEX RECEPTACLE, FULL CONTROLLED	0	CONDUIT TURNING UP	LC1	ELECTRICAL ACCESSORIES REFERENCE			
	DOUBLE DUPLEX RECEPTACLE, HALF CONTROLLED		CONDUIT CAPPED					
++++++++++++++++++++++++++++++++++++++								
П Н 🗠	SHADING INDICATES EMERGENCY SYSTEM				ABBREVIATI	ONS LE	GEND	
ΨA-1	TEXT INDICATES PANEL AND CIRCUIT DESIGNATION		MAIN SWITCHBOARD/DISTRIBUTION CENTER		(Not all symbols listed below	w are used on t	hese drawings)	
	DISCONNECT SWITCH (NON-FUSED)		TRANSFORMER	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	
	DISCONNECT SWITCH (FUSED)	СТ	CURRENT TRANSFORMER	A		MCP	MOTOR CIRCUIT PROTECTOR	
	VARIABLE SPEED DRIVE WITH DISCONNECT	(T)	THERMOSTAT	AC	+6" ABOVE COUNTER OR BACK SPLASH	MEC	SEE MECHANICAL EQUIPMENT SCHEDULE	
ବ	ENCLOSED CIRCUIT BREAKER	GANN	GENERATOR ANNUNCIATOR PANEL	AFF	ABOVE FINISHED FLOOR	MIN	MINIMUM	
S	TOGGLE SWITCH	M	UTILITY METER	AFG	ABOVE FINISHED GRADE	MLO	MAIN LUGS ONLY	
			POWER POLE	ANN	ANNUNCIATOR	MTS	MANUAL TRANSFER SWITCH	
				ARF	ABOVE RAISED FLOOR	NC	NORMALLY CLOSED	
				ASSD		NIC		
	CONTROL	.S LEGE	ND	ATC				
	(Not all symbols listed below	w are used on th	nese drawings)	AIS		NL		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	BFG	BELOW FINISHED GRADE	NO	NORMALLY OPEN	
Sa	SINGLE POLE SWITCH (SUBSCRIPT DENOTES SWITCHING)	S _{VS}	VARIABLE SPEED/SPEED CONTROLLER SWITCH	С	CONDUIT	NTS	NOT TO SCALE	
S ₂	TWO POLE SWITCH	S _{EP}	EXPLOSION PROOF SWITCH	CATV	CABLE TELEVISION	OC	ON CENTER	
S ₃	THREE-WAY SWITCH	s _{to}	THERMAL OVERLOAD SWITCH	СВ	CIRCUIT BREAKER	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED	
S ₄	FOUR-WAY SWITCH	S _{MC}	MOMENTARY CONTACT SWITCH	CCTV	CLOSED CIRCUIT TELEVISION	OFOI	OWNER FURNISHED, OWNER INSTALLED	
Sk	KEY OPERATED SWITCH	R S	COMBINATION SWITCH AND DUPI EX RECEPTACI E	(E)	EXISTING	OSWF	ON SITE WORK FORCE	
Su Su				FM	EMERGENCY	PB		
с м				EMDC		SD SD		
S _D			PUSH BUTTON			30		
S _{PI}	(PILOT LIGHT IS 'ON' WHEN SWITCH IS 'ON')	TC		EP	EXPLOSION PROOF	SDC	SUB-DISTRIBUTION CENTER	
S _P	(CONTINUOUSLY LIGHTED HANDLE)	Ð	IR=INFRARED, US=ULTRASONIC, DT=DUAL TECHNOLOGY	EPO	EMERGENCY POWER OFF	TP	TAMPER PROOF	
S _{LV}	LOW VOLTAGE SWITCH			EVO	EMERGENCY VENTILATION ON/OFF	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER	
				EWC	ELECTRIC WATER COOLER	TYP	TYPICAL	
				FA	FIRE ALARM	UF	UNDER FLOOR	
	LIGHTINN (Not all symbols listed below	J LEUE	ND hese drawings)	G	GROUND	UG	UNDER GROUND	
SYMBOL	DESCRIPTION		DESCRIPTION	GCP	GENERATOR CONTROL PANEL	UON	UNLESS OTHERWISE NOTED	
STWIDOL	SHADING INDICATES EM SYSTEM I OWER CASE SUBSCRIPT		DESCRIPTION	GECI		UPS		
a A	INDICATES SWITCHING, UPPER CASE SUBSCRIPT INDICATES	\odot	PENDANT LUMINAIRE - SINGLE SUSPENSION			01 0 V		
				HOA		V		
	TROFFER - RECESSED	$\square \odot$	PENDANT LUMINAIRE - MULTIPLE SUSPENSION	IG	ISOLATED GROUND	VFD	VARIABLE FREQUENCY DRIVE	
				MAX	MAXIMUM	W/	WITH	
0		Q		MCB	MAIN CIRCUIT BREAKER	W/O	WITHOUT	
	SURFACE LUMINAIRE		WALL MOUNTED LUMINAIRE	MCC	MOTOR CONTROL CENTER	WP	WEATHER PROOF	
		v		MDC	MAIN DISTRIBUTION CENTER	XFMR	TRANSFORMER	
	LINEAR LUMINAIRE - RECESSED		IN-WALL LUMINAIRE					
	FIELD MEASURED LUMINAIRE							
	LENGTH AND SHAPE DENOTED BY LINEWORK	壮꾹	POLE LUMINAIRE - ARM MOUNTED		ONE-LINE DIA	GRAM L	EGEND	
					(Not all symbols listed below	w are used on t	hese drawings)	
Ø Ø	DOWNLIGHT - RECESSED	Ц Ц Ц Ц Ц Ц С С	POLE LUMINAIRE - POST TOP	SYMBOL	DESCRIPTION		DESCRIPTION	
					DISCONNECT SWITCH	A	PANELBOARD "A"	
	DOWNLIGHT - SURFACE		BOLLARD	-	DISCONNECT SWITCH, FUSED	PM	EM=ENERGY METER, PM=POWER METER, CM=CIRCUIT MONITOR	
			BOLLAND	_^_	CIRCUIT BREAKER		VOLTMETER TEST SWITCH	
⊗	EXIT SIGN - CEILING MOUNTED		TRACK HEAD AND TRACK		FUSE	— AS —	AMMETER TEST SWITCH	
\$	EXIT SIGN - WALL MOUNTED (FLUSH TO WALL)		EXTERIOR STAKE MOUNTED	Ļ	GROUND	Ø	VOLTMETER	
89	EXIT SIGN - WALL MOUNTED (PROJECTS FROM WALL)		EMERGENCY LIGHTING UNIT - WALL MOUNTED	Ţ	STEP DOWN TRANSFORMER ## INDICATES KVA		AMMETER	
					K-RATED STEP DOWN TRANSFORMER			
<u> </u>					## INDICATES KVA, # INDICATES K RATING			
	INDIGATES EATLOIGN CREVICUNS - LEFT/KIGHT UK BUTH					G		
					POTENTIAL TRANSFORMER		CONTACTOR/RELAY/CAPACITOR (AS NOTED)	
					SERVICE ENTRANCE TRANSFORMER		TRANSFER SWITCH - ATS=AUTOMATIC, MTS=MANUAL	
					METER	GFI	GROUND FAULT INTERRUPTER	
					EQUIPMENT ENCLOSURE	SPD	SURGE PROTECTIVE DEVICE	
				⊲≡	SERVICE WEATHERHEAD	(T	SHUNT TRIP	

	(Not all symbols listed below are used on these drawings)			REFERENCE SYMBOLS LEGEND (Not all symbols listed below are used on these drawings)			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION		DESCRIPTION
Φ	SINGLE RECEPTACLE		ELECTRICAL PANELBOARD, CONTROL PANEL, OR OTHER CABINET AS NOTED	$\langle x \rangle$	KEY NOTE REFERENCE		
0 0 00	DUPLEX RECEPTACLE: WALL, CEILING, FLOOR MOUNTED	PM	PLUG MOLD (MULTI-OUTLET ASSEMBLY)	LPA-#	TYPICAL CIRCUIT NUMBER		EXISTING TO REMAIN
+++	DOUBLE DUPLEX RECEPTACLE: WALL, CEILING, FLOOR MOUNTED	⊢ −₩M−−− 1	WIREMOLD (SURFACE RACEWAY)) TG# (TYPICAL LUMINAIRE TYPE	$\widehat{\mathbb{A}}$	EXISTING TO BE REMOVED
	SPECIAL RECEPTACLE: WALL, CEILING, FLOOR MOUNTED		CONDUIT CONCEALED		TYPICAL ROOM REFERENCE (TOP = RM #, BOTTOM = FLR)		
			CONDUIT, UNDERGROUND OR CONCEALED IN FLOOR	V VH			
			AS ALLOWED PER SPECIFICATIONS				
				LC1			
₩₩ 2 2							
т ч ше л	SHADING INDICATES EMERGENCY SYSTEM				ABBREVIATI	ONS LE	GEND
	TEXT INDICATES PANEL AND CIRCUIT DESIGNATION			SVMBOL	(Not all symbols listed belo	ware used on th	
						MCP	
					ABOVE COUNTER, MOUNT HORIZONTALLY TO CENTERLINE OF DEVICE,	MEC	
					+6" ABOVE COUNTER OR BACK SPLASH	MIN	
6						MLO	
5	TOGGLE SWITCH			AFG		MLO	
			POWER POLE	ANN		MIS	MANUAL TRANSFER SWITCH
				ARF	ABOVE RAISED FLOOR	NC	
	CONTROL	S LEGE	ND	ASSD		NIC	
	(Not all symbols listed below	v are used on th	nese drawings)	ATS	AUTOMATIC TRANSFER SWITCH	NL	NIGHT LIGHT
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	BFG	BELOW FINISHED GRADE	NO	NORMALLY OPEN
Sa	SINGLE POLE SWITCH (SUBSCRIPT DENOTES SWITCHING)	s _{vs}	VARIABLE SPEED/SPEED CONTROLLER SWITCH	C		NTS	NOT TO SCALE
S ₂	TWO POLE SWITCH	S _{EP}	EXPLOSION PROOF SWITCH	CATV	CABLE TELEVISION	OC	ON CENTER
S ₃	THREE-WAY SWITCH	s _{to}	THERMAL OVERLOAD SWITCH	СВ	CIRCUIT BREAKER	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
S ₄	FOUR-WAY SWITCH	s _{MC}	MOMENTARY CONTACT SWITCH	CCTV	CLOSED CIRCUIT TELEVISION	OFOI	OWNER FURNISHED, OWNER INSTALLED
s _K	KEY OPERATED SWITCH	% ∖s	COMBINATION SWITCH AND DUPLEX RECEPTACLE	(E)	EXISTING	OSWF	ON SITE WORK FORCE
S _M	MANUAL SWITCH, HORSEPOWER RATE	P	PHOTOCELL	EM	EMERGENCY	PB	PULL BOX
SD		●	PUSH BUTTON	EMDC	EMERGENCY MAIN DISTRIBUTION CENTER	SB	STAND-BY
S _{PI}	(PILOT LIGHT IS 'ON' WHEN SWITCH IS 'ON')	ТС	TIME CLOCK	EP	EXPLOSION PROOF	SDC	SUB-DISTRIBUTION CENTER
SP	CONTINUOUSLY LIGHTED HANDLE)	Ð	OCCUPANCY SENSOR - WALL MOUNTED IR=INFRARED, US=ULTRASONIC, DT=DUAL TECHNOLOGY	EPO	EMERGENCY POWER OFF	TP	TAMPER PROOF
S _{LV}	LOW VOLTAGE SWITCH			EVO	EMERGENCY VENTILATION ON/OFF	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
				EWC	ELECTRIC WATER COOLER	TYP	TYPICAL
	LIGHTING			FA	FIRE ALARM	UF	UNDER FLOOR
	(Not all symbols listed below	v are used on the	nese drawings)	G	GROUND	UG	UNDER GROUND
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	GCP	GENERATOR CONTROL PANEL	UON	UNLESS OTHERWISE NOTED
a a	SHADING INDICATES EM SYSTEM, LOWER CASE SUBSCRIPT			GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UPS	UNINTERRUPTIBLE POWER SUPPLY
A	LUMINAIRE TYPE (TYP)			HOA	HAND OFF AUTOMATIC	V	VOLTS
	TROFFER - RECESSED	\odot		IG	ISOLATED GROUND	VFD	VARIABLE FREQUENCY DRIVE
		••••	PENDANT LUMINAIRE - MULTIPLE SUSPENSION	MAX	MAXIMUM	W/	WITH
0		Q		MCB	MAIN CIRCUIT BREAKER	W/O	WITHOUT
	SURFACE LUIVIINAIRE		WALL MOUNTED LUMINAIRE	MCC	MOTOR CONTROL CENTER	WP	WEATHER PROOF
		<u>م</u>		MDC	MAIN DISTRIBUTION CENTER	XFMR	TRANSFORMER
		Ø					
		갑갑				GRAMI	EGEND
	SUBSCRIPT IN RECTANGLE INDICATES LUMINAIRE TYPE	ΤŤ			(Not all symbols listed belo	w are used on th	nese drawings)
ПО		<u><u> </u></u>		SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
29	DOWNLIGHT - NEOESSED	놔뀻			DISCONNECT SWITCH	A	PANELBOARD "A"
по				-√_	DISCONNECT SWITCH, FUSED	PM	EM=ENERGY METER, PM=POWER METER, CM=CIRCUIT MONITOR
	DOWNLIGHT - SUNTAGE		BOLLARD	_^_	CIRCUIT BREAKER	-VS-	VOLTMETER TEST SWITCH
⊗	EXIT SIGN - CEILING MOUNTED	⊢┤	TRACK HEAD AND TRACK		FUSE	AS -	AMMETER TEST SWITCH
Ŷ	EXIT SIGN - WALL MOUNTED (FLUSH TO WALL)	\bowtie	EXTERIOR STAKE MOUNTED	Ļ	GROUND	Ø	VOLTMETER
₽ ₽	EXIT SIGN - WALL MOUNTED (PROJECTS FROM WALL)		EMERGENCY LIGHTING UNIT - WALL MOUNTED	T ##	STEP DOWN TRANSFORMER, ## INDICATES KVA	Ø	AMMETER
• 1	INDICATES EXIT SIGN FACES - SINGLE OR DOUBLE	চব	EMERGENCY LIGHTING UNIT - CEILING MOUNTED	ТК ##	K-RATED STEP DOWN TRANSFORMER ## INDICATES KVA. # INDICATES K RATING		SEE FEEDER/MEC/TRANSFORMER SCHEDULES FOR FEEDER SIZE
	INDICATES EXIT SIGN CHEVRONS - LEFT/RIGHT OR BOTH	>	INDICATES DIRECTIONAL AIMING	$\overline{\uparrow}$	CURRENT TRANSFORMER	6	ENGINE GENERATOR
				36	POTENTIAL TRANSFORMER		CONTACTOR/RELAY/CAPACITOR (AS NOTED)
					SERVICE ENTRANCE TRANSFORMER	<u> </u>	TRANSFER SWITCH - ATS=AUTOMATIC, MTS=MANUAL
					METER	GFI	GROUND FAULT INTERRUPTER
					EQUIPMENT ENCLOSURE	SPD	SURGE PROTECTIVE DEVICE
					SERVICE WEATHERHEAD	(T)	SHUNT TRIP

SHORT CIRCUIT CURRENT AVAILABLE

MECHANICAL INTERLOCK

_ ⟨K⟩ a

 $\langle E \rangle_{a}$

KIRK KEY INTERLOCK, SUBSCRIPT INDICATES INTERLOCKED GROUP

ELECTRICAL INTERLOCK, SUBSCRIPT INDICATES INTERLOCKED GROUP

>>

EO ELECTRICALLY OPERATED

TERMINATIONS LB=LOAD BREAK, NLB=NO LOAD BREAK

Α

B

С

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LIGHTING PLAN NOTES:

- 1. REFER TO ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS FOR EXACT MOUNTING LOCATIONS OF DEVICES AND LUMINAIRES. 2. COORDINATE LUMINAIRE LOCATIONS WITH MECHANICAL PIPING, DUCTWORK,
- ETC., TO AVOID CONFLICTS. SEE SPECIFICATIONS FOR COORDINATION REQUIREMENTS. 3. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH 120V CIRCUIT.
- 4. FIELD COORDINATE EXACT LOCATION OF CEILING MOUNTED OCCUPANCY SENSORS PER MANUFACTURER'S INSTRUCTIONS. OCCUPANCY/VACANCY SENSING DEVICES ARE SHOWN FOR GENERAL DESIGN INTENT ONLY. CONTRACTOR SHALL PROVIDE THE TYPE AND QUANTITY OF OCCUPANCY/VACANCY SENSING DEVICES AS NECESSARY FOR PROPER COVERAGE AND CONTROL OF LUMINAIRES WHERE INDICATED ON THE LIGHTING PLANS. FIELD ADJUSTMENT TO DEVICE LOCATIONS SHALL BE MADE AS REQUIRED TO CAPTURE ALL OCCUPANTS, WHETHER SITTING AT A DESK OR MOVING AROUND THE SPACE. ADDITIONAL DEVICES SHALL BE PROVIDED AND FIELD ADJUSTMENTS SHALL BE MADE AS NECESSARY, AT NO ADDITIONAL COST TO OWNER. CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.

POWER PLAN NOTES:

- 1. MAKE ALL FINAL ELECTRICAL CONNECTIONS TO EQUIPMENT REQUIRING ELECTRICAL CONNECTION. THIS SHALL INCLUDE BUT NOT BE LIMITED TO ALL MECHANICAL AND OTHER EQUIPMENT INCLUDED IN THIS PROJECT.
- 2. COORDINATE EXACT REQUIREMENTS AND LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- 3. PROVIDE FUSES SIZED PER EQUIPMENT MANUFACTURER'S REQUIREMENTS. 4. DISCONNECT SWITCH LOCATIONS ARE SHOWN DIAGRAMMATICALLY AND SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS TO SUIT EQUIPMENT AND SPACE. DISCONNECT SWITCHES SHALL BE WITHIN SIGHT OF THE EQUIPMENT THEY SERVE AND MOUNTED AT 6'-3", MAXIMUM, TO TOP OF CABINET. MAINTAIN
- NEC WORK SPACE REQUIREMENTS. 5. NO RECEPTACLES SHALL BE MOUNTED BELOW +18" AFF.
- 6. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH 120V CIRCUIT.
- 7. CIRCUITS MAY BE COMBINED INTO HOMERUNS OF UP TO SIX (6) CURRENT CARRYING CONDUCTORS, INCLUDING NEUTRALS, UNLESS OTHERWISE INDICATED. WHERE CIRCUITS ARE COMBINED WITHIN A SINGLE CONDUIT, PROVIDE STRIPING FOR FULL LENGTH OF NEUTRAL CONDUCTOR INSULATION TO MATCH THE COLOR CODE OF THE ASSOCIATED PHASE CONDUCTOR. SEE SPECIFICATION FOR COLOR CODES.
- 8. GFCI RECEPTACLES ARE NOT GENERALLY SHOWN ON DRAWINGS. ALL RECEPTACLE OUTLETS LOCATED IN TOILET ROOMS, SHOWER ROOMS, LOCKER ROOMS. GARAGES, SERVICE BAYS, ROOFTOPS, OUTDOOR LOCATIONS, MECHANICAL ROOMS, WITHIN 6 FEET OF A SINK, AT ELECTRIC WATER COOLERS, OR OTHER WET LOCATIONS SHALL BE PROVIDED WITH GFCI PROTECTION PER NEC ARTICLE 210 AND NEC SECTION 422.5. PROVIDE GFCI RECEPTACLES IN ELEVATOR PITS, HOISTWAYS, MACHINE ROOMS, CONTROL SPACES, AND CONTROL ROOMS PER NEC SECTION 620.85. ADDITIONAL GFCI PROTECTION TO BE PROVIDED AS INDICATED. WHERE GFCI DEVICES ARE REQUIRED AND/OR SHOWN BUT ARE NOT ACCESSIBLE WHEN EQUIPMENT IS INSTALLED, I.E. VENDING MACHINES, ETC., PROVIDE BLANK FACE GFCI DEVICE AND COVERPLATE AHEAD OF INACCESSIBLE RECEPTACLES. MOUNT ADJACENT TO EQUIPMENT AT SWITCH HEIGHT UNLESS OTHERWISE SHOWN.
- 9. 120V POWER HAS BEEN SHOWN ON DRAWINGS TO J-BOXES IDENTIFIED FOR BAS CONTROLS, DAMPER ACTUATORS AND OTHER MISCELLANEOUS POWER TO OPERATE MECHANICAL CONTROLS AND DEVICES. COORDINATE ALL 120V REQUIREMENTS WITH MECHANICAL CONTROLS AND EQUIPMENT AND MAKE ALL CONNECTIONS REQUIRED TO THESE OR OTHER 120V MECHANICAL CIRCUITS AS REQUIRED. DO NOT CONNECT THESE LOADS TO OTHER CIRCUITS WITH LOADS OTHER THAN THOSE IDENTIFIED HERE.
- 10. ALL OUTDOOR AND ROOFTOP RECEPTACLES SHALL BE OUTDOOR RATED AND SHALL HAVE A WEATHERPROOF IN USE COVER.

ONE-LINE DIAGRAM NOTES:

- 1. PANELBOARDS INDICATED ON ONE-LINE DIAGRAMS DO NOT SHOW ALL BRANCH CIRCUITS. REFER TO PANELBOARD SCHEDULE(S).
- 2. EXISTING ONE-LINE DIAGRAM TAKEN FROM OWNER FURNISHED DRAWINGS. EXISTING INFORMATION SHOWN OTHER THAN LOCATIONS IMPACTED BY NEW WORK HAS NOT BEEN VERIFIED.
- 3. COORDINATE MOUNTING, CONDUIT, WIRE, AND OCPD SIZE FOR SPD'S WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

GENERAL NOTES:

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- 1. FOR REMODELING, WORK INCLUDED IS DENOTED IN BOLD. EXISTING CONDITIONS TO REMAIN ARE DENOTED LIGHTLY.
- 2. PROTECT STRUCTURE AND OWNER EQUIPMENT FROM DAMAGE. IMMEDIATELY REPLACE OR REPAIR, TO ORIGINAL CONDITION, DAMAGE CAUSED BY THE CONTRACTOR WHETHER EQUIPMENT APPEARS TO BE CURRENTLY IN USE OR NOT, UNLESS WRITTEN AUTHORIZATION FROM THE OWNER INDICATED OTHERWISE. PREPARE LISTING OF ALL EXISTING DAMAGED ITEMS AND SUBMIT TO OWNER PRIOR TO BEGINNING WORK.
- 3. INSTALL CONDUIT CONCEALED IN FINISHED AREAS UNLESS OTHERWISE NOTED. PAINT EXPOSED CONDUIT TO MATCH EXISTING FINISHES WITHIN THE SURROUNDING AREA.
- 4. DO NOT ROUTE CONDUIT WITHIN STRUCTURAL OR TOPPING SLABS OF FLOORS UNLESS SPECIFICALLY NOTED OTHERWISE AND WRITTEN APPROVAL IS OBTAINED FROM THE STRUCTURAL ENGINEER.
- 5. FIRE SEAL ALL FIRE RATED WALL AND FLOOR PENETRATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED WALLS.
- 6. COORDINATE EXACT REQUIREMENTS AND LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN AND ORDERING MATERIALS OR EQUIPMENT.
- 7. EXISTING INFORMATION SHOWN ON THE DRAWINGS HAS BEEN TAKEN FROM OWNER FURNISHED DRAWINGS AND/OR LIMITED FIELD OBSERVATIONS. CATOR, RUMA & ASSOCIATES IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION OR THE ADEQUACY, SAFETY AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THESE DRAWINGS.
- 8. FIELD LOCATE EXISTING UNDERGROUND PUBLIC AND OWNER UTILITIES OF ALL TRADES AND BUILDING GROUNDING/LIGHTNING PROTECTION SYSTEMS PRIOR TO ANY EXCAVATION. REPLACE OR REPAIR DAMAGED UTILITIES AND GROUNDING/LIGHTNING PROTECTION SYSTEMS TO ORIGINAL CONDITION.
- 9. PROVIDE SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDER, HOMERUN AND BRANCH CIRCUITS.

DEMOLITION NOTES:

- 1. UNLESS NOTED OTHERWISE, BOLD ITEMS INDICATE EQUIPMENT, DEVICES, ETC. TO BE REMOVED. SEE SPECIFICATION SECTION 260500 FOR REMODEL/DEMOLITION DETAILED REQUIREMENTS.
- 2. DEMOLITION DRAWINGS MAY NOT SHOW EVERY ITEM TO BE DEMOLISHED. CONTRACTOR SHALL VISIT SITE TO DETERMINE AND COORDINATE THE EXACT EXTENT OF DEMOLITION TO FACILITATE ALL WORK INDICATED BY THE CONTRACT DOCUMENTS PRIOR TO QUOTATION. NO EXTRAS WILL BE ALLOWED FOR WORK REQUIRED TO ACHIEVE THE END RESULT AS INDICATED BY THE CONTRACT DOCUMENTS. REWORK EXISTING TERMINATIONS, CONNECTIONS, CONDUIT, WIRING, ETC. TO ACCEPT NEW WORK. MAINTAIN CIRCUIT CONTINUITY TO EXISTING CIRCUITS AND DEVICES TO REMAIN OR REMODEL/DEMOLITION DETAILED REQUIREMENTS TO BE RELOCATED. PRIOR TO COMMENCEMENT OF ANY DEMO WORK, CONFIRM EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOR RESOLUTION.
- 3. ALL ITEMS IDENTIFIED TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY INCLUDING ALL WIRING AND EXPOSED CONDUIT AND CONDUIT SUPPORTS BACK TO POINT OF ORIGIN OR NEXT DEVICE TO REMAIN. REMOVED ITEMS SHALL BE TURNED OVER TO THE OWNER, UNLESS NOTED OTHERWISE, AND STORED IN THE AREA DESIGNATED BY THE OWNER. REMOVE FROM SITE AND LEGALLY DISPOSE OF ALL ITEMS THE OWNER CHOOSES NOT TO ACCEPT
- 4. WHERE EXISTING CONDUITS ARE SHOWN TO BE REMOVED AND HAVE BEEN ROUTED IN CONCRETE FLOOR SLABS, CONCRETE WALLS OR CONCRETE CEILINGS, THEY SHALL BE CUT BACK FLUSH WITH CONCRETE. FILL WITH GROUT TO ACHIEVE A SMOOTH AND EVEN FINISH FLUSH WITH CONCRETE SURFACE AFTER CONDUCTORS HAVE BEEN REMOVED.
- 5. REUSE EXISTING CONDUIT WHERE CURRENT NEC AND LOCAL CODE REQUIREMENTS ARE MAINTAINED. PROVIDE NEW CONDUIT AND WIRE FOR NEW INSTALLATIONS AND EXTENSION OF EXISTING INSTALLATIONS. REUSE EXISTING CONDUIT IN PLACE, DO NOT REINSTALL EXISTING CONDUIT. PROVIDE LABELING PER SPECIFICATIONS FOR REUSED CONDUIT.
- 6. WHERE EXISTING DEVICES, SWITCHES, MOTOR CONNECTIONS, ETC. ARE TO BE REMOVED FROM WALLS WHICH ARE REMAINING, WALLS SHALL BE PATCHED TO MATCH ORIGINAL FINISH. BLANK COVERPLATES OVER EXISTING BOXES ARE NOT ACCEPTABLE, UNLESS NOTED OTHERWISE.

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LUMINAIRE SCHEDULE

COMMON NOTES: A. CATALOG NUMBER REFERS TO FIRST NAME LISTED UNDER MANUFACTURER PER LUMINAIRE TYPE. REMAINING MANUFACTURERS LISTED ARE CONSIDERED TO BE EQUIVALENT PRODUCTS FOR THIS PROJECT AND SHALL MEET ALL CRITERIA LISTED INCLUDING THAT CALLED FOR BY THE SPECIFIC LUMINAIRE CATALOG NUMBER. CATALOG NUMBERS DO NOT NECESSARILY REPRESENT COMPLETE CATALOG NUMBERS. ALL ITEMS LISTED IN THE DESCRIPTION SHALL BE PROVIDED.

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- B. REFER TO LIGHTING SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. C. PROVIDE UNIT PRICING FOR ALL LUMINAIRES BY TYPE AND SUBMIT WITH BID FORM.
- D. PROVIDE AN EMERGENCY BALLAST TEST SWITCH FOR RECESSED DOWNLIGHTS ON CEILING ADJACENT TO LUMINAIRE. E. PROVIDE FLICKER FREE LED DRIVERS MEETING IEEE 1789.

SPECIFIC REMARKS:

		LA	MP		BALLAST/DRIVE	R	APPARENT					
TYPE	DESCRIPTION	COLOR	LUMENS	TYPE	DIM LEVEL	VOLTAGE	LOAD	MANUFACTURER	CATALOG SERIES	FINISH	MOUNTING	REMARKS
L1 4'LX2"W HIGH-EFFIC	/ RECESSED MOUNTED LINEAR, DIRECT CIENCY LAMBERTIAN OPTIC, FLUSH LENS, STATIC WHITE, 80 CRI	3500K	200L/FT	0-10V	1%	120 V	17 VA	FINELITE	HP-2-R	WHITE	RECESSED	
L2 4'LX HIGH-EFF WIDESPRE,	X2"W SUSPENDED LINEAR, DIRECT FICIENCY LAMBERTIAN OPTIC, INDIRECT EAD OPTIC, FLUSH LENS, STATIC WHITE, 80 CRI	3500K	350L/FT D 200L/FT ID	0-10V	1%	120 V	17 VA	FINELITE	HP-2-P	WHITE	SUSPENDED	1
T1 4X2 RECES 3700 LU	SSED TROFFER, ANGLED BASKET, 3500K, JMENS, 0-10V DIMMING DRIVER TO 1%,	3500K	3700 LM	0-10V	1%	120 V	27 VA	FINELITE	HPR LED	WHITE	RECESSED	
T1E SAME AS	S T1 WITH ADDED EMERGENCY BATTERY	_	-	-	_	120 V	27 VA	-	-	-	-	

LIGHTING CONTROL MATRIX

- COMMON NOTES: A. NOT ALL SPACE NAMES ARE LISTED FOR EACH LIGHTING CONTROL TYPE. REFER TO PLANS FOR ALL SPACES TO BE CONTROLLED. B. SPACES MAY CONTAIN MULTIPLE ZONES OF CONTROL. REFER TO PLANS FOR QUANTITY OF ZONES, SWITCHES, ETC. C. PROVIDE THE QUANTITY OF SENSORS AS REQUIRED FOR FULL COVERAGE OF THE SPACE. DEVICES SHOWN ON PLAN ARE FOR DESIGN INTENT ONLY AND DO NOT NECESSARILY
- REFLECT THE EXACT QUANTITY REQUIRED FOR FULL COVERAGE. D. WHERE A SINGLE SWITCH/DIMMER IS DENOTED WITH MULTIPLE SWITCH LEGS, DESIGN INTENT IS A SINGLE-GANG DEVICE WITH MULTIPLE-MODE CONTROL.

SPECIFIC REMARKS: 1. TIE LIGHTING INTO EXISTING BUILDING LIGHTING CONTOLS.

KEY:	
ON / OFF CONTROL OCC / VAC DAYLIGHT INTERFACE NETWORK	M = MANUAL (SWITCH), A = AUTOMATIC (SENSOR), T = TIME SCHEDULE, I 0-10V DIMMING, ELV DIMMING, STEP DIMMING, DMX CONTROL DT = DUAL TECHNOLOGY, PIR = PASSIVE INFRARED, CLG = CEILING MOUI CALIBRATE BOTTOM LIMIT OF DAYLIGHT SENSOR TO DENOTED FOOTCAN AV = ALLOW OVERRIDE BY A/V SYSTEM, BAS = COMMUNICATE OCCUPIED X = CONNECT ZONE TO CENTRAL LIGHTING CONTROL SYSTEM
EMERGENCY	X = PROVIDE AUTOMATIC LOAD CONTROL RELAYS (ALCR) FOR LUMINAIR

						OCCUPANCY / VACANCY SENSOR		DAYLIGHT SENSOR						
								TARGET	MEASURED	RCPT				
TYPE	SPACE	ON	OFF	CONTROL	TECH	MOUNT	DELAY (MIN.)	LEVEL (FC)	HEIGHT (IN.)	CONTROL	INTERFACE	NETWORK	EMERGENCY	REMARKS
LC1	CORRIDOR			0-10V										1
LC2	LIBRARY	A	А	0-10V	DT	CLG	20						X	
LC10	OPEN OFFICE	М	А	0-10V	DT	CLG	20						X	
LC13	CLASSROOM	М	A	0-10V	DT	CLG	20						X	

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P = EXTERIOR PHOTOCELL, #% = CONTROL TO #% LIGHT LEVEL

UNT, WALL = WALL CORNER MOUNT, SW = INTEGRAL TO WALL SWITCH NDLE LEVEL AT HEIGHT LISTED

D/UNOCCUPIED STATE TO BAS, VAV = TIE SENSOR RELAY DIRECTLY TO VAV BOX IN ROOM RES ON EMERGENCY CIRCUIT, PROVIDE TEST SWITCH IF NOT INTEGRAL TO RELAY

MECHANICAL EQUIPMENT SCHEDULE															
COMM	COMMON NOTES: A. PRIOR TO WORK, VERIFY ELECTRICAL REQUIREMENTS (VOLTAGE, AMPERAGE, RECOMMENDED OCPD, CONDUCTORS, AND DISCONNECT) FOR EACH PIECE OF EQUIPMENT.														
A. B.	PRIOR T PRIOR T	O WORK, VERIFY ELECTRICAL REC O WORK. VERIFY EXACT LOCATIO	QUIREMEN	ITS (VO CH PIEC	LTAGE, AMF E OF EQUIP	PERAGE, RECO	OMMENDED OC	PD, CONDUC	TORS, AND DIS	SCONNECT) F	FOR EACH PIE	ECE OF EQUIPM	ENT.		
C.	COORDI	NATE AND PROVIDE ALL FIELD CO		NS AS R	EQUIRED.										
D.	CIRCUIT	DOES NOT AFFECT OPERATION O	F OTHER		IENT. FOR E	XAMPLE, DO N	NOT CONNECT	A DAMPER A	SSOCIATED W	TH ONE AIR	HANDLING UN	NIT TO THE SAM	E		
F	BRANCH	I CIRCUIT AS DAMPERS ASSOCIAT	ED WITH A		RENT AIR H/ S TO FIFI D-	ANDLING UNIT	ID/OR FACTOR	INSTALLED							
F.	COORDI	NATE LOCATION OF VFD(S) AND W	ORKING S	SPACE C	CLEARANCE	S. IF INSTALLI	ED REMOTE FR	OM EQUIPME	NT, PROVIDE	CIRCUIT CON	NECTION FRO	OM VFD TO			
G.	Motor() Where	S). MULTIPLE MOTORS ARE SERVED B	BY A SING	LE VFD.		TE FIELD-WIR	ING REQUIREM	ENTS WITH E	QUIPMENT VE	NDOR.					
					, ,										
SPECIFIC															
1. 2.	POWERE	ED EXHAUST FAN SECTION PROVID	FAN NUMB DED WITH	MANUF	ACTURER F	URNISHED VF	D AND FUSED D	CIRCUIT. ISCONNECT.							
-						EQ LOAD			FEEDERS			PROTECTION		_	
	1		0 HP			(VA)	208 V/ 3ph	3#12	#12G	CONDUIT	15 A		FUSE	REMARKS	
ECUH	2	CABINET UNIT HEATER (ELECTRIC)	0	0 A	3000 VA	3000 VA	208 V/ 3ph	3#12	#12G	3/4"	15 A	30 A	12 A		
ECUH	3	CABINET UNIT HEATER (ELECTRIC)	0	0 A	2000 VA	2000 VA	208 V/ 3ph	3#12	#12G	3/4"	15 A	30 A	7 A		
EUH PFF	1	POWERED EXHAUST FAN	0	0 A 0 A	5000 VA	5000 VA 865 VA	208 V/ 3ph 208 V/ 3ph	3#12	#12G #10G	3/4"	20 A 35 A	30 A 60 A	20 A 10 A	12	
PEF	2	POWERED EXHAUST FAN	0.5	0 A	0 VA	865 VA	208 V/ 3ph	3#8	#10G	1"	40 A	60 A	10 A	1,2	
PEF	3	POWERED EXHAUST FAN	0.5	0 A	0 VA	865 VA	208 V/ 3ph	3#8	#10G	1"	40 A	60 A	10 A	1,2	
PEF	4	POWERED EXHAUST FAN	0.5	0 A 0 A	0 VA 0 VA	865 VA 865 VA	208 V/ 3ph 208 V/ 3ph	3#8	#10G #10G	1"	40 A 40 A	60 A	10 A 10 A	1,2	
PEF	6	POWERED EXHAUST FAN	0.5	0 A	0 VA	865 VA	208 V/ 3ph	3#8	#10G	1"	40 A	60 A	10 A	1,2	
PEF	7	POWERED EXHAUST FAN	0.5	0 A	0 VA	865 VA	208 V/ 3ph	3#8	#10G	1"	40 A	60 A	10 A	1,2	
PEF	8 9	POWERED EXHAUST FAN	0.5	0 A 0 A	0 VA 0 VA	865 VA	208 V/ 3ph 208 V/ 3ph	3#8 3#8	#10G #10G	1" 1"	40 A 40 A	60 A	10 A 10 A	1,2	
PEF	10	POWERED EXHAUST FAN	0.5	0 A	0 VA	865 VA	208 V/ 3ph	3#8	#10G	1"	40 A	60 A	10 A	1,2	
PEF	11	POWERED EXHAUST FAN	0.5	0 A	0 VA	865 VA	208 V/ 3ph	3#8	#10G	1"	40 A	60 A	10 A	1,2	
	12	POWERED EXHAUST FAN	0.5	0 A 0 A	0 VA 0 VA	865 VA 865 VA	208 V/ 3ph	3#8	#10G #10G	1"	40 A 40 A	60 A	10 A 10 A	1,2	
PEF	14	POWERED EXHAUST FAN	0.5	0 A	0 VA	865 VA	208 V/ 3ph	3#8	#10G	1"	40 A	60 A	10 A	1,2	
PEF	15	POWERED EXHAUST FAN	0.5	0 A	0 VA	865 VA	208 V/ 3ph	3#8	#10G	1"	40 A	60 A	10 A	1,2	
PEF PFF	16	POWERED EXHAUST FAN	0.5	0 A 0 A	0 VA 0 VA	865 VA	208 V/ 3ph 208 V/ 3ph	3#6	#10G #10G	1"	45 A 45 A	60 A	10 A	1,2	
PEF	18	POWERED EXHAUST FAN	0.5	0 A	0 VA	865 VA	208 V/ 3ph	3#6	#10G	1"	45 A	60 A	10 A	1,2	
PEF	19	POWERED EXHAUST FAN	0.5	0 A	0 VA	865 VA	208 V/ 3ph	3#6	#10G	1"	45 A	60 A	10 A	1,2	
	20	POWERED EXHAUST FAN	0.5	0 A 0 A	0 VA 0 VA	865 VA	208 V/ 3ph 208 V/ 3ph	3#6	#10G #10G	1"	45 A 45 A	60 A	10 A 10 A	1,2	
PEF	22	POWERED EXHAUST FAN	0.5	0 A	0 VA	865 VA	208 V/ 3ph	3#6	#10G	1"	45 A	60 A	10 A	1,2	
PEF	23	POWERED EXHAUST FAN	0.5	0 A	0 VA	865 VA	208 V/ 3ph	3#6	#10G	1"	45 A	60 A	10 A	1,2	
PEF PEF	24	POWERED EXHAUST FAN	0.5	0 A 0 A	0 VA 0 VA	865 VA 865 VA	208 V/ 3ph 208 V/ 3ph	3#6	#10G #10G	1"	45 A 45 A	60 A	10 A	1,2	
PEF	26	POWERED EXHAUST FAN	0.5	0 A	0 VA	865 VA	208 V/ 3ph	3#6	#10G	1"	45 A	60 A	10 A	1,2	
PEF	27	POWERED EXHAUST FAN	0.5	0 A	0 VA	865 VA	208 V/ 3ph	3#6	#10G	1"	45 A	60 A	10 A	1,2	
PEF PEF	28	POWERED EXHAUST FAN	0.5	0 A 0 A	0 VA 0 VA	865 VA 865 VA	208 V/ 3ph	3#6	#10G #10G	1"	45 A 45 A	60 A	10 A	1,2	
PEF	30	POWERED EXHAUST FAN	0.5	0 A	0 VA	865 VA	208 V/ 3ph	3#6	#10G	1"	45 A	60 A	10 A	1,2	
PEF	31	POWERED EXHAUST FAN	0.5	0 A	0 VA	865 VA	208 V/ 3ph	3#6	#10G	1"	45 A	60 A	10 A	1,2	
RTU	2	ROOF TOP UNIT	0	21 A 26 A	0 VA 0 VA	9367 VA	208 V/ 3ph	3#8	#10G #10G	1"	35 A 40 A	60 A	30 A 35 A	1	
RTU	3	ROOF TOP UNIT	0	26 A	0 VA	9367 VA	208 V/ 3ph	3#8	#10G	1"	40 A	60 A	35 A	1	
RTU	4		0	26 A	0 VA	9367 VA	208 V/ 3ph	3#8	#10G	1"	40 A	60 A	35 A	1	
RTU	5 6	ROOF TOP UNIT	0	26 A	0 VA 0 VA	9367 VA 9367 VA	208 V/ 3ph	3#8	#10G #10G	1"	40 A 40 A	60 A	35 A 35 A	1	
RTU	7	ROOF TOP UNIT	0	26 A	0 VA	9367 VA	208 V/ 3ph	3#8	#10G	1"	40 A	60 A	35 A	1	
RTU	8		0	26 A	0 VA	9367 VA	208 V/ 3ph	3#8	#10G	1"	40 A	60 A	35 A	1	
RTU	9	ROOF TOP UNIT	0	26 A	0 VA 0 VA	9367 VA 9367 VA	208 V/ 3ph	3#8	#10G #10G	1"	40 A 40 A	60 A	35 A 35 A	1	
RTU	11	ROOF TOP UNIT	0	26 A	0 VA	9367 VA	208 V/ 3ph	3#8	#10G	1"	40 A	60 A	35 A	1	
RTU	12		0	26 A	0 VA	9367 VA	208 V/ 3ph	3#8	#10G	1"	40 A	60 A	35 A	1	
RTU	13		0	26 A	0 VA 0 VA	9367 VA 9367 VA	208 V/ 3ph	3#8	#10G #10G	1"	40 A 40 A	60 A	35 A 35 A	1	
RTU	15	ROOF TOP UNIT	0	26 A	0 VA	9367 VA	208 V/ 3ph	3#8	#10G	1"	40 A	60 A	35 A	1	
RTU	16		0	32 A	0 VA	11529 VA	208 V/ 3ph	3#6	#10G	1"	45 A	60 A	40 A	1	
RTU	17	ROOF TOP UNIT	0	32 A 32 A	0 VA 0 VA	11529 VA 11529 VA	208 V/ 3ph	3#6	#10G #10G	1"	45 A 45 A	60 A	40 A 40 A	1	
RTU	19	ROOF TOP UNIT	0	32 A	0 VA	11529 VA	208 V/ 3ph	3#6	#10G	1"	45 A	60 A	40 A	1	
	20		0	32 A	0 VA	11529 VA	208 V/ 3ph	3#6	#10G	1"	45 A	60 A	40 A	1	
RTU	21	ROOF TOP UNIT	0	32 A 32 A	0 VA 0 VA	11529 VA	208 V/ 3ph	3#6	#10G	1"	45 A 45 A	60 A	40 A	1	
RTU	23	ROOF TOP UNIT	0	32 A	0 VA	11529 VA	208 V/ 3ph	3#6	#10G	1"	45 A	60 A	40 A	1	
	24		0	32 A	0 VA	11529 VA	208 V/ 3ph	3#6	#10G	1"	45 A	60 A	40 A	1	
RTU	25	ROOF TOP UNIT	0	32 A 32 A	0 VA 0 VA	11529 VA	200 v/ 3ph	3#6	#10G	1"	45 A 45 A	60 A	40 A	1	
RTU	27	ROOF TOP UNIT	0	32 A	0 VA	11529 VA	208 V/ 3ph	3#6	#10G	1"	45 A	60 A	40 A	1	
	28		0	32 A	0 VA	11529 VA	208 V/ 3ph	3#6	#10G	1"	45 A	60 A	40 A	1	
RTU	30	ROOF TOP UNIT	0	32 A 32 A	0 VA 0 VA	11529 VA	208 V/ 3ph	3#6	#10G	1"	45 A	60 A	40 A	1	
RTU	31	ROOF TOP UNIT	0	32 A	0 VA	11529 VA	208 V/ 3ph	3#6	#10G	1"	45 A	60 A	40 A	1	

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E6	PROVIDE NE	W SWIT(FROM N	CHBC	DARD. B	ACKFE	EED ALL EXIST	TING TO REMAIN
	DEMOLITION	TO MIN	IMIZE	E FACILI	TY DO	WNTIME.	
E9	PROVIDE BID) ALT FO	RRE	EPLACIN	IG OF	ALL EXISTING	PANELS WITH N
E16	REMOVE NE	JTRAL T	O GF	ROUND	BOND	AT PORTABLE	E BUILDING.
	BUILI	DING LC)AD	SUMMA	RY		
MA	IN SWITCHBOAF	D RATING	i			600 A	
EX	ISTING PEAK DE	MAND				105 KW	
EX	ISTIGN PEAK DE	MAND (208	3V 3PF	۲)		292 A	
NE	C DEMAND FACT					x 125%	6
NE LO	C CORRECTED F	'EAK DEM	AND L	.OAD		365 A 100 A	
NE	W LOAD ADDED					977 A	
NE	W TOTAL BUILDI	NG LOAD				1242 A	_
NE	W TOTAL BUILDI	NG LOAD				447 KVA	
FE	EDER	SCF	1E	DUI	LE		
			10/17				
<u>NO</u>	<u>IE:</u> CONDU ALUMIN	CTORS	WII PE X	H 'AL' (HHW-2		PACT 600V.	E
						<u> </u>	
100.4C		NDUCI) 1 1 # 0	C 1 1/	<u>ບ</u>	
200.40			4 #	1,1#0		2	
200.4G		4	# 3/	J, I#0		2	
250.4G		4	# 250	$\frac{J, 1#4}{0.4.4}$			
600.4G		2[4	# 350	J,1#1	G3		
1200.4			4 [4	1 # 500 A	AL [3]		
1200.4G	4 [4 :	# 500 AL	,1 #	250 AL	G[3]		
IRRENT CA	E FOR ACTUAL FEEDER	(UTILIZES	THE B			TION METHOD AI	ND TABLES)
13 KESPONSIBLI	FOR ACTUAL FEEDER	(DISTANCES)		Length	# of	Conductor	Available Fault
Description	on	Voltage	Ph	(FT)	Run(s)	"C" value	Current (ISC)
At Utility	Со						65,000
TO MC	3	208	3	100	5	23451	44,488
TO MD	>	208	3	10	5	23451	43,127
TO H1		208	3	100	1	12843	11,370
TO H2		208	3	150	1	12843	8,311
TO H3		208	3	70	1	12843	14,594
TO H4		200	1 2 1	170	4	1 1 1 2 0 / 2	7 503
		208		170	1	12045	7,505
TO C1		208	3	115	1	12843	10,239

208 3 55 1 12843

 208
 3
 270
 1
 12843

 208
 3
 200
 1
 12843

208 3 45 1 12843

208 3 13 2 19703

208 3 10 2 19703

208 3 16 2 19703

12843

1 12843

208 3 270 1

208 3

17,005

6,548

39,529

38,564

37,644

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100%

TO G

TO A

TO A1 TO RR

TO M1

TO B

TO HVAC1

TO HVAC2

TO HVAC3

KEYNOTES

E5 SERVICE ENTRANCE SWITCHBOARD AND DISTRIBUTION TO BE REMOVED AND REPLACED. DISCONNECT AND REMOVE EQUIPMENT AS NOTED.

E3 EXISTING UTILITY TRANSFORMER TO BE REPLACED BY UTILITY. COORDINATE WITH UTILITY FOR ALL WORK REQUIRED.

	Location								
	Supply From: Mounting: Surface		Volts Phases Wires	s: 120/208 s: 3 s: 4	3 Wye		A.I N E	I.C. Rating: 65 KAI lains Type: MLO Bus Rating: 1600 A	2
Circui	t Notes:								
	Load		Туре		A		В	С	Note
H4			Spare	0	VA	0	VA	0 VA	
RR			Spare	0	VA	0	VA	0 VA	
H1			Spare	0	VA	0	VA	0 VA	
H3			Spare	0	VA	0	VA	0 VA	
G			Spare	0	VA	0	VA	0 VA	
<u>21</u>			Spare	0	VA	0	VA	0 VA	
12			Spare	0	VA	0	VA	0 VA	
A 			Spare	0	VA	0	VA	0 VA	
A1 M1			Spare	0		0			
	1		Spare: P: M	562	VA 61.V/A	5626	VA \$1.\/A	0 VA 56441 VA	
	1		Spare: M	576	01 VΑ 43 VΔ	5764		57643 VA	
HVAC	3		Spare: M	137	43 VA 44 VA	1374	14 VA	13744 VA	
PORT	ABI F			0	VA	0	VA	0 VA	
RANG	E TOP			0	VA	0	VA	0 VA	
				-					
				1276	48 VA	1276	48 VA	127828 VA	
Refer f	o one-line diagram for space, spare, and circui	t breaker quantities.		10	64 A	10	64 A	1065 A	
			-		0		0	0	
				%	A-B	%	B-C	% C-A	
Load	Гуре	Connected Load	Demand I	Factor	Demand	Load		Switchbo	ard Totals
	Lighting	0 VA	0.00	%	0 V.	A		Power Factor:	
R	Receptacle	2340 VA	100.00	J%	2340	VA			00040034
M	Motor	380783 VA	100.76	0% V	38366		Tota	Connected Load:	383123 VA
	Continuous	U VA	0.009	/o	0 V	A ^	I OTAL C	onnected Current:	1003 A
<u> </u>	General	U VA	0.00%	/0		A ^	.	tol Domond Local	296005 \/A
			0.00%	/0		π	I C Toto	Lomand Current	1071 A
	Other		0.00	/0	0.1/	Δ	TOLA		
		UVA	0.005	/0	0 1/	n			

CA & A S 420 South Orchan (208) 343-3663	FOR RUMA SOCIATES, CO. rd Street, Boise, ID 83705 3 • www.catorruma.com
205 N. 10th Street Suite 300 Boise, Idaho 83702 208.343.7523	ARCHITECTS ARCHITECTS Constitution Way, 111 bummelarch.com 5Falls, ID 83402 543.7523
roject: FSD DISTRI EPLACEME	CT WIDE HVAC NT
rrison Elementary School 0 Harrison St rin Falls, ID 83301	I
LECTRICAL IAGRAM	ONE-LINE
	Revisions: 🛆
45510NAL E40 100000000000000000000000000000000000	
Electrical	Project No: 23028
	Drawn By: JS Checked By: KO Date: 1/15/2025
	Sheet No: E0.11

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KEYNOTES

- E1 EXISTING EQUIPMENT TO BE REMOVED THROUGH DEMO PHASE. DEMO CONDUIT AND ASSOCIATED BRANCH CIRCUITRY BACK TO PANEL. TURN BREAKER TO OFF POSITION AND RE-LABEL AS SPARE.
- E2 EXISTING EQUIPMENT TO BE REMOVED THROUGH DEMO. PRESERVE AND PROTECT EXISTING CIRCUITRY FOR RE-USE. ENSURE CIRCUIT CONTINUITY OF DOWNSTREAM DEVICES AND ADJACENT SPACES IS
- MAINTAINED THROUGHOUT WORK. E7 BID ALT SCOPE: PROVIDE NEW PANELBOARD TO REPLACE EXISTING PANELBOARD REMOVED THROUGH DEMO PHASE AT THIS LOCATION. PROVIDE NEW FEEDER. REFER TO ONE-LINE DIAGRAM.

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- 2. RELOCATE EXISTING CAMERAS WHERE NEW ARCHITECTURAL CEILING CLOUDS AND LIGHTING OBSCURE CAMERA'S FIELD OF VIEW. RL TAGS PLACED ON THE REFLECTED CEILING PLAN INDICATE POSSIBLE CAMERA CONFLICTS. FIELD VERIFY ALL LOCATIONS WITH OWNER.
- 3. RELOCATE EXISTING EMERGENCY LIGHTS AND EXIT LIGHTS WHERE NEW ARCHITECTURAL CEILING CLOUDS AND LIGHTING LAYOUT CONFLICT WITH EXISTING LOCATIONS. RL TAGS PLACED ON THE REFLECTED CEILING PLAN INDICATE POSSIBLE CONFLICTS. FIELD VERIFY ALL LOCATIONS WITH OWNER.
- 4. RELOCATE EXISTING SPEAKERS WHERE NEW ARCHITECTURAL CEILING CLOUDS CONFLICT WITH EXISTING LOCATIONS. RL TAGS PLACED ON THE REFLECTED CEILING PLAN INDICATE POSSIBLE CONFLICTS. FIELD VERIFY ALL LOCATIONS WITH OWNER.
- 5. COORDINATE ALL RELOCATED DEVICES WITH ARCHITECT PRIOR TO PERFORMING WORK.

KEYNOTES E10 CONNECT NEW LUMINAIRES THIS AREA TO EXISTING CIRCUITRY MADE AVAILABLE THROUGH DEMOLITION. ENSURE CIRCUIT CONTINUITY OF DOWNSTREAM DEVICES IS MAINTAINED.

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Panel B Location: Supply From: Mounting: Surface Enclosure: Type 1								Voltage: Phase: Wire:	120/208 3 4	Wye	A.I.C. Rating: 22 KAIC Mains Type: MLO Bus Rating: 225 A MCB Rating: 1 A					
Circui	it Note	S:														
Note	Circ	Load	Type	Trip	Po		A	E	3		C	Po	Trip	Туре	Load	
	1	L - TUNNEL		20 A	1	0 VA	0 VA					1	20 A		SPARE	
	3	L - TUNNEL		20 A	1			0 VA	0 VA			1	20 A		SPARE	
	5	L - TUNNEL		20 A	1	0.)/A	0.)/A			0 VA	0 VA	1	20 A			
	9	KITCHEN FLOOR STAND)	20 A	1	UVA	UVA	0 VA	0 VA			1	20 A 20 A		KITCHEN FLOOR ST	
	11	KITCHEN FLOOR STAND)	20 A	1				-	0 VA	0 VA	1	20 A		CONDENSATE PUM	2
	13	COAL ANOPR		20 A	1	0 VA	0 VA					1	20 A		SPARE	
	15			20 A	1			0 VA	0 VA	0.1/4	0.1/4	1	20 A			
	19	R - KITCHEN		20 A	1	0 VA	0 VA			UVA	UVA	1	20 A		SPARE	
	21	CONDENSATE PUMP		20 A	1		-	0 VA	0 VA			1	20 A		HOT WATER CIRC P	UMP
	23	FAN		15 A	2					0 VA	0 VA	2	20 A		SPARE	
	25				_	0 VA	0 VA	0.1/4	0.) (A			_	2071			
	27	STOKER MOTOR		20 A	2			0 VA	0 VA	0.\/A	0.1/4	2	30 A		SPARE	
	31					0 VA	0 VA					1	20 A		SPARE	
	33	ALC PANEL		20 A	3			0 VA	0 VA			1	20 A		SPARE	
	35									0 VA	0 VA	1	20 A		SPARE	
	37	SPARE		20 A	1	0 VA	0 VA					1	20 A		SPARE	
	39	SPARE		20 A	1			0 VA	0 VA	0.\/A	0.1/4	1	20 A			
	41	SFAIL		Total I	_oad:	0	VA	0	VA	0 7	VA		20 A		SPARE	
				Total A	mps:	0	A	0	A	0	A	1				
			Ph	ase Bala	ance:		% A-B		% B-C		% C-A					
.oad	Type					Connect	ted Load	Demano		Deman				Deu	Panel Totals	
L R	Lignur	ig Macle				0	VA VA	0.0	0%	0	VA VA			Pow		
M	Motor					0	VA	0.0	0%	0	VA		Tota	al Conne	cted Load: 0 VA	
С	Contir	nuous				0	VA	0.0	0%	0	VA		Total (Connecte	d Current: 0 A	
G	Gener	al				0	VA	0.0	0%	0	VA		-			
K F	Kitche	n				0		0.0	0%	0			I Tot	otal Dem al Doman	and Load: 0 VA	
0	Other	19				0	VA	0.0	0%	0	VA		100			
		Panel														
		Location: Supply From: N	G MDP					Voltage: Phase:	120/208 3	Wye			A	LI.C. Ratii Mains Ty	ng: 22 KAIC pe: MLO	
Sircui	it Note	Location: Supply From: Mounting: F Enclosure: T s:	G MDP Recessed Type 1	T	Do		•	Voltage: Phase: Wire:	120/208 3 4	Wye		Do	A	LI.C. Ratin Mains Typ Bus Ratin	ng: 22 KAIC pe: MLO ng: 225 A	
ircui lote	it Note	Location: Supply From: Mounting: F Enclosure: 7 s: Load	G MDP Recessed Type 1 Type 	Trip 20 A	Po	0 VA	A 0 VA	Voltage: Phase: Wire:	120/208 3 4	Wye	C	Po	Trip 20 A	LI.C. Ratii Mains Ty Bus Ratii Type	ng: 22 KAIC pe: MLO ng: 225 A Load	
ircui	it Note Circ 1 3	Location: Supply From: M Mounting: F Enclosure: 7 s: Load L - AUDITORIUM L - AUDITORIUM	G MDP Recessed Type 1 Type 	Trip 20 A 20 A	Po 1	0 VA	A 0 VA	Voltage: Phase: Wire:	120/208 3 4 3 3 4	Wye	C	Po 1 1	Trip 20 A 20 A	LI.C. Ratin Mains Ty Bus Ratin Type 	ng: 22 KAIC pe: MLO ng: 225 A Load L - AUDITORIUM R - STAGE EAST	
Circui	Circ 1 3 5	Location: Supply From: Mounting: F Enclosure: 7 s: Load L - AUDITORIUM L - AUDITORIUM R - BALCONY EAST	G MDP Recessed Type 1 Type 	Trip 20 A 20 A 20 A	Po 1 1	0 VA	A 0 VA	Voltage: Phase: Wire:	120/208 3 4 3 4	Wye 0 VA	C 0 VA	Po 1 1 1	Trip 20 A 20 A 20 A	LI.C. Ratii Mains Ty Bus Ratii Type 	ng: 22 KAIC pe: MLO ng: 225 A Load L - AUDITORIUM R - STAGE EAST R - STAGE WEST	
Note	Circ 1 3 5 7	Location: Supply From: N Mounting: F Enclosure: 7 S: Load L - AUDITORIUM L - AUDITORIUM R - BALCONY EAST R - CEILING	G MDP Recessed Type 1 Type 	Trip 20 A 20 A 20 A 20 A	Po 1 1 1	A 0 VA	A 0 VA 0 VA	Voltage: Phase: Wire:	120/208 3 4 3 0 VA	Wye 0 VA	C 0 VA	Po 1 1 1 1	Trip 20 A 20 A 20 A 20 A	LI.C. Ratin Mains Ty Bus Ratin Type 	ng: 22 KAIC pe: MLO ng: 225 A Load L - AUDITORIUM R - STAGE EAST R - STAGE WEST SPARE SDADE	
Note	tit Note	Location: Supply From: N Mounting: F Enclosure: 7 s: Load L - AUDITORIUM L - AUDITORIUM R - BALCONY EAST R - CEILING L - STAGE L - BOOM 7	G MDP Recessed Type 1 Type 	Trip 20 A 20 A 20 A 20 A 20 A 20 A	Po 1 1 1 1 1	AV 0	A 0 VA 0 VA	Voltage: Phase: Wire: 0 VA	120/208 3 4 3 0 VA 0 VA	Wye 0 VA	C 0 VA	Po 1 1 1 1 1 1	Trip 20 A 20 A 20 A 20 A 20 A	LI.C. Ratii Mains Ty Bus Ratii Type 	ng: 22 KAIC pe: MLO ng: 225 A Load L - AUDITORIUM R - STAGE EAST R - STAGE WEST SPARE SPARE L BOOM 7	
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Vote	tit Note Circ 1 3 5 7 9 11 13 15 17	Location: Supply From: M Mounting: F Enclosure: 7 s: L - AUDITORIUM L - AUDITORIUM R - BALCONY EAST R - CEILING L - STAGE L - ROOM 7 L - ROOM 8 L - ROOM 8	G MDP Recessed Type 1 Type 	Trip 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Po 1 1 1 1 1 1 1 1 1 1	0 VA 0 VA 0 VA	A 0 VA 0 VA 0 VA	Voltage: Phase: Wire: 0 VA	120/208 3 4 3 4 9 0 VA 0 VA 0 VA	Wye 0 VA 0 VA	C 0 VA 0 VA	Po 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	LI.C. Ratin Mains Ty Bus Ratin Type 	ng: 22 KAIC pe: MLO ng: 225 A Load L - AUDITORIUM R - STAGE EAST R - STAGE WEST SPARE SPARE L - ROOM 7 L - ROOM 8 R - CLASSROOM R - AUDITORIUM	
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	t Note Circ 1 3 5 7 9 11 13 15 17 19 21 23 25 27	Location: Supply From: M Mounting: F Enclosure: 7 S: L - AUDITORIUM L - AUDITORIUM R - BALCONY EAST R - CEILING L - AUDITORIUM R - BALCONY EAST R - CEILING L - STAGE L - ROOM 7 L - ROOM 8 L - ROOM 8 L - ROOM 8 L - ROOM 8 L - STAGE SPARE L - STAGE SPARE SPARE SPARE SPARE SPARE	G MDP Recessed Type 1 Type 1 -	Trip 20 A	Po 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AV 0 AV 0 AV 0 AV 0 AV 0 AV 0 AV 0 AV 0	A 0 VA 0 VA 0 VA 0 VA	Voltage: Phase: Wire: Wire:	120/208 3 4 3 3 5 4 5 3 5 4 5 5 5 5	Wye 0 VA 0 VA	C 0 VA 0 VA 0 VA 0 VA	Po 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	LI.C. Ratin Mains Ty Bus Ratin Type 	ng: 22 KAIC pe: MLO ng: 225 A Load L - AUDITORIUM R - STAGE EAST R - STAGE WEST SPARE SPARE L - ROOM 7 L - ROOM 8 R - CLASSROOM R - AUDITORIUM L - ROOF SPARE SPARE SPARE SPARE SPARE SPARE SPARE	
	t Note Circ 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29	Location: Supply From: M Mounting: F Enclosure: 7 S: L - AUDITORIUM L - AUDITORIUM L - AUDITORIUM R - BALCONY EAST R - CEILING L - ROOM 7 L - ROOM 7 L - ROOM 8 L - ROOM 8 L - ROOM 8 L - ROOM 8 L - STAGE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	G MDP Recessed Type 1 	Trip 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Po 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	A 0 VA 0 VA 0 VA 0 VA 0 VA	Voltage: Phase: Wire: Wire: 0 VA 0 VA 0 VA 0 VA	120/208 3 4 3 3 4 3 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	Wye 0 VA 0 VA 0 VA	C 0 VA 0 VA 0 VA 0 VA	Po 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	LI.C. Ratin Mains Ty Bus Ratin Type 	ng: 22 KAIC pe: MLO ng: 225 A Load L - AUDITORIUM R - STAGE EAST R - STAGE WEST SPARE SPARE L - ROOM 7 L - ROOM 8 R - CLASSROOM R - AUDITORIUM L - ROOF SPARE	
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Note	t Note Circ 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 27 29 Type Lightir	Location: Supply From: M Mounting: F Enclosure: 7 S: Load L - AUDITORIUM L - AUDITORIUM R - BALCONY EAST R - CEILING L - AUDITORIUM R - BALCONY EAST R - CEILING L - STAGE L - ROOM 7 L - ROOM 8 L - ROOM 8 L - ROOM 8 L - ROOM 8 SPARE SPARE SPARE SPARE SPARE SPARE	G MDP Recessed Type 1 Type -	Trip 20 A 20 A	Po 1 1 1 1 1 1 1 1 1 1 1 1 1	0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	A 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 V	Voltage: Phase: Wire: Wire: 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	120/208 3 4 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	Wye 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	C 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	Po 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip 20 A	LI.C. Ratin Mains Ty Bus Ratin Type -	ng: 22 KAIC pe: MLO ng: 225 A Load L - AUDITORIUM R - STAGE EAST R - STAGE WEST SPARE SPARE L - ROOM 7 L - ROOM 8 R - CLASSROOM R - AUDITORIUM L - ROOM 8 R - CLASSROOM R - AUDITORIUM L - ROOF SPARE	
Vote	ti Note Circ 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 Type Lightir Recep	Location: Supply From: M Mounting: F Enclosure: 7 S: Load L - AUDITORIUM L - AUDITORIUM R - BALCONY EAST R - CEILING L - AUDITORIUM R - BALCONY EAST R - CEILING L - STAGE L - ROOM 7 L - ROOM 8 L - STAGE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	G MDP Recessed Type 1 Type 	Trip 20 A 20 A	Po 1 1 1 1 1 1 1 1 1 1 1 1 1	0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	A 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 V	Voltage: Phase: Wire: Wire: 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	120/208 3 4 3 3 4 3 3 4 3 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	Wye 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	C 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	Po 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip 20 A	LI.C. Ratin Mains Ty Bus Ratin Type -	ng: 22 KAIC pe: MLO ng: 225 A L - AUDITORIUM R - STAGE EAST R - STAGE WEST SPARE L - ROOM 7 L - ROOM 8 R - CLASSROOM R - AUDITORIUM L - ROOF SPARE SPA	
Note	t Note Circ 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 21 23 25 27 29 Vige Lightir Recep Motor	Location: Supply From: M Mounting: F Enclosure: 7 S: Load L - AUDITORIUM L - AUDITORIUM R - BALCONY EAST R - CEILING L - STAGE L - ROOM 7 L - ROOM 8 L - ROOM 8 L - ROOM 8 L - ROOM 8 L - STAGE SPARE SPARE SPARE SPARE SPARE SPARE	G MDP Recessed Type 1 Type -	Trip 20 A 20 A	Po 1 1 1 1 1 1 1 1 1 1 1 1 1	0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	A 0 VA 0 VA	Voltage: Phase: Wire: 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	120/208 3 4 3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Wye 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	C 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	Po 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	LI.C. Ratin Mains Ty Bus Ratin Type -	ng: 22 KAIC pe: MLO ng: 225 A L - AUDITORIUM R - STAGE EAST R - STAGE WEST SPARE SPARE L - ROOM 7 L - ROOM 8 R - CLASSROOM R - AUDITORIUM L - ROOM 8 R - CLASSROOM R - AUDITORIUM L - ROOF SPARE SP	
Note	it Note Circ 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 Type Lightir Recep Motor Contir	Location: Supply From: M Mounting: F Enclosure: 7 S: Load L - AUDITORIUM L - AUDITORIUM R - BALCONY EAST R - CEILING L - STAGE L - ROOM 7 L - ROOM 8 L - ROOM 8 L - ROOM 8 L - ROOM 8 L - ROOM 8 SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	G MDP Recessed Type 1 Type 1 Type -	Trip 20 A 20 A	Po 1 1 1 1 1 1 1 1 1 1 1 1 1	0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	A 0 VA 0 VA	Voltage: Phase: Wire: Wire: 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	120/208 3 4 3 3 4 3 3 4 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	Wye 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	C 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	Po 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip 20 A	LI.C. Ratin Mains Ty Bus Ratin Type 	ng: 22 KAIC pe: MLO ng: 225 A L - AUDITORIUM R - STAGE EAST R - STAGE WEST SPARE SPARE L - ROOM 7 L - ROOM 8 R - CLASSROOM R - AUDITORIUM L - ROOM 8 R - CLASSROOM R - AUDITORIUM L - ROOF SPARE SP	
Note Note	it Note Circ 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 Vitabo Kitabo	Location: Supply From: M Mounting: F Enclosure: 7 S: Load L - AUDITORIUM L - AUDITORIUM R - BALCONY EAST R - CEILING L - STAGE L - ROOM 7 L - ROOM 8 L - ROOM 8 L - ROOM 8 L - ROOM 8 L - ROOM 8 SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	G MDP Recessed Type 1 Type	Trip 20 A 20 A	Po 1 1 1 1 1 1 1 1 1 1 1 1 1	0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	A 0 VA 0 VA	Voltage: Phase: Wire: 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	120/208 3 4 3 3 3 4 3 3 3 4 3	Wye 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	C 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	Po 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip 20 A	LI.C. Ratin Mains Ty Bus Ratin Type -	ng: 22 KAIC pe: MLO ng: 225 A Load L - AUDITORIUM R - STAGE EAST R - STAGE WEST SPARE SPARE L - ROOM 7 L - ROOM 8 R - CLASSROOM R - AUDITORIUM L - ROOM 8 R - CLASSROOM R - AUDITORIUM L - ROOF SPARE SPA	
Circui Note	it Note Circ 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 29 Type Lightir Recep Motor Contir Gener Kitche Existir	Location: Supply From: M Mounting: F Enclosure: 7 S: S: S: S: S: S: S: S: S: S: S: S: S:	G MDP Recessed Type 1	Trip 20 A 20 A	Po 1 1 1 1 1 1 1 1 1 1 1 1 1	0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	A 0 VA 0 VA	Voltage: Phase: Wire: Wire: 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	120/208 3 4 5 4 5 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5	Wye 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	C 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	Po 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip 20 A	LI.C. Ratin Mains Ty Bus Ratin Type -	ng: 22 KAIC pe: MLO ng: 225 A L - AUDITORIUM R - STAGE EAST R - STAGE WEST SPARE SPARE L - ROOM 7 L - ROOM 8 R - CLASSROOM R - AUDITORIUM L - ROOM 8 R - CLASSROOM R - AUDITORIUM L - ROOF SPARE SP	

General Notes:

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Supply From: MDP Mounting: Surface Enclosure: Type 1 Circuit Notes:	Voltage: 120/208 Wye Phase: 3 Wire: 4	A.I.C. Rating: 10 KAIC Mains Type: MCB Bus Rating: 225 A MCB Rating: 200 A	Location: Supply From: MDP Mounting: Surface Enclosure: Type 1 Circuit Notes:	Voltage: 120/208 Wye Phase: 3 Wire: 4	A.I.C. Rating: 10 KAIC Mains Type: MCB Bus Rating: 100 A MCB Rating: 100 A
Note Circ Load Type Trip 1 SPARE 20 / 3 SPARE 20 / 5 SPARE 20 / 7 SPARE 20 / 9 SPARE 20 / 11 SPARE 20 / 13 SPARE 20 / 13 SPARE 20 / 13 SPARE 20 / 15 SPARE 20 / 15 SPARE 20 / 17 SPARE 20 / 19 SPARE 20 / 21 SPARE 20 / 25 SPARE 20 / 25 SPARE 20 / 31 SPARE 20 / 33 SPARE 20 / 33 <th>p Po A B C P A 1 0 VA 0 VA 0 VA 0 VA 0 VA A 1 0 VA 0 VA 0 VA 0 VA 0 VA A 1 0 VA 0 VA 0 VA 0 VA 0 VA A 1 0 VA 0 VA 0 VA 0 VA 0 VA A 1 0 VA 0 VA 0 VA 0 VA 0 VA A 1 0 VA 0 VA 0 VA 0 VA 0 VA A 1 0 VA 0 VA 0 VA 0 VA 0 VA A 1 0 VA 0 VA 0 VA 0 VA 0 VA A 1 0 VA 0 VA 0 VA 0 VA 0 VA A 1 0 VA 0 VA 0 VA 0 VA 0 VA A 1 0 VA 0 VA 0 VA 0 VA 0 VA A 1 0 VA</th> <th>Image Load Circ N 1 20 A SPARE 2 1 20 A SPARE 2 1 20 A SPARE 4 1 20 A SPARE 6 1 20 A SPARE 6 1 20 A SPARE 10 1 20 A SPARE 10 1 20 A SPARE 10 1 20 A SPARE 12 1 20 A SPARE 12 1 20 A SPARE 14 1 20 A SPARE 18 1 20 A SPARE 20 1 20 A SPARE 22 1 20 A SPARE 24 1 20 A SPARE 28 1 20 A SPARE 30 <t< th=""><th>Note Circ Load Type Trip Po 1 1 1 30 A 3 5 7 L - CLASSROOM 20 A 1 9 L - CLASSROOM 20 A 1 11 L - CLASSROOM 20 A 1 11 L - TEACHER ROOM 20 A 1 13 L - TEACHER ROOM 20 A 1 15 L - CLASSROOM 20 A 1 15 L - CLASSROOM 20 A 1 15 L - CLASSROOM 20 A 1 17 L - CLASSROOM 20 A 1 19 L - HALLWAY 20 A 1 21 L - EXTERIOR 20 A 1 225 SPARE 20 A 1 27 SPARE 20 A 1 29 SPARE</th><th>ABC$0 \vee A$$0 \circ A$$0 \circ A$$0 \vee A$$0 \vee A$$0 \vee A$$0 \vee A$$0 \circ A$$0 \circ A$$0 \vee A$</th><th>Po Trip Type Load Circ 1 20 A R - TEACHER RM 2 1 20 A R - TEACHER RM 4 1 20 A R - TEACHER RM 4 1 20 A R - CLASSROOM 6 1 20 A R - ROOF SERVICE 8 1 20 A SPARE 10 1 20 A SPARE 10 1 20 A SPARE 10 1 20 A SPARE 14 1 20 A SPARE 16 1 20 A SPARE 20 1 20 A SPARE 22 1 20 A SPARE 20 1 20 A SPARE 23 1 20 A SPARE 24 3 100 A MAIN BREAKER 28 30 <t< th=""></t<></th></t<></th>	p Po A B C P A 1 0 VA 0 VA 0 VA 0 VA 0 VA A 1 0 VA 0 VA 0 VA 0 VA 0 VA A 1 0 VA 0 VA 0 VA 0 VA 0 VA A 1 0 VA 0 VA 0 VA 0 VA 0 VA A 1 0 VA 0 VA 0 VA 0 VA 0 VA A 1 0 VA 0 VA 0 VA 0 VA 0 VA A 1 0 VA 0 VA 0 VA 0 VA 0 VA A 1 0 VA 0 VA 0 VA 0 VA 0 VA A 1 0 VA 0 VA 0 VA 0 VA 0 VA A 1 0 VA 0 VA 0 VA 0 VA 0 VA A 1 0 VA 0 VA 0 VA 0 VA 0 VA A 1 0 VA	Image Load Circ N 1 20 A SPARE 2 1 20 A SPARE 2 1 20 A SPARE 4 1 20 A SPARE 6 1 20 A SPARE 6 1 20 A SPARE 10 1 20 A SPARE 10 1 20 A SPARE 10 1 20 A SPARE 12 1 20 A SPARE 12 1 20 A SPARE 14 1 20 A SPARE 18 1 20 A SPARE 20 1 20 A SPARE 22 1 20 A SPARE 24 1 20 A SPARE 28 1 20 A SPARE 30 <t< th=""><th>Note Circ Load Type Trip Po 1 1 1 30 A 3 5 7 L - CLASSROOM 20 A 1 9 L - CLASSROOM 20 A 1 11 L - CLASSROOM 20 A 1 11 L - TEACHER ROOM 20 A 1 13 L - TEACHER ROOM 20 A 1 15 L - CLASSROOM 20 A 1 15 L - CLASSROOM 20 A 1 15 L - CLASSROOM 20 A 1 17 L - CLASSROOM 20 A 1 19 L - HALLWAY 20 A 1 21 L - EXTERIOR 20 A 1 225 SPARE 20 A 1 27 SPARE 20 A 1 29 SPARE</th><th>ABC$0 \vee A$$0 \circ A$$0 \circ A$$0 \vee A$$0 \vee A$$0 \vee A$$0 \vee A$$0 \circ A$$0 \circ A$$0 \vee A$</th><th>Po Trip Type Load Circ 1 20 A R - TEACHER RM 2 1 20 A R - TEACHER RM 4 1 20 A R - TEACHER RM 4 1 20 A R - CLASSROOM 6 1 20 A R - ROOF SERVICE 8 1 20 A SPARE 10 1 20 A SPARE 10 1 20 A SPARE 10 1 20 A SPARE 14 1 20 A SPARE 16 1 20 A SPARE 20 1 20 A SPARE 22 1 20 A SPARE 20 1 20 A SPARE 23 1 20 A SPARE 24 3 100 A MAIN BREAKER 28 30 <t< th=""></t<></th></t<>	Note Circ Load Type Trip Po 1 1 1 30 A 3 5 7 L - CLASSROOM 20 A 1 9 L - CLASSROOM 20 A 1 11 L - CLASSROOM 20 A 1 11 L - TEACHER ROOM 20 A 1 13 L - TEACHER ROOM 20 A 1 15 L - CLASSROOM 20 A 1 15 L - CLASSROOM 20 A 1 15 L - CLASSROOM 20 A 1 17 L - CLASSROOM 20 A 1 19 L - HALLWAY 20 A 1 21 L - EXTERIOR 20 A 1 225 SPARE 20 A 1 27 SPARE 20 A 1 29 SPARE	ABC $0 \vee A$ $0 \circ A$ $0 \circ A$ $0 \vee A$ $0 \vee A$ $0 \vee A$ $0 \vee A$ $0 \circ A$ $0 \circ A$ $0 \vee A$	Po Trip Type Load Circ 1 20 A R - TEACHER RM 2 1 20 A R - TEACHER RM 4 1 20 A R - TEACHER RM 4 1 20 A R - CLASSROOM 6 1 20 A R - ROOF SERVICE 8 1 20 A SPARE 10 1 20 A SPARE 10 1 20 A SPARE 10 1 20 A SPARE 14 1 20 A SPARE 16 1 20 A SPARE 20 1 20 A SPARE 22 1 20 A SPARE 20 1 20 A SPARE 23 1 20 A SPARE 24 3 100 A MAIN BREAKER 28 30 <t< th=""></t<>
K Kitchen E Existing O Other Panel C2 Location: Supply From: C1 Mounting: Recessed Enclosure: Turo 1	0 VA 0.00% 0 VA	Total Demand Load: 0 VA Total Demand Current: 0 A Al.C. Rating: 22 KAIC Mains Type: MLO Bus Rating: 225 A	Panel C1 Location: Supply From: MDP Mounting: Recessed Enclosure: Ture 1	Voltage: 120/208 Wye Phase: 3 Wire: 4	A.I.C. Rating: 22 KAIC Mains Type: MLO Bus Rating: 225 A
Enclosure: Type 1 Circuit Notes: Load Type Tri 1 ROOM 1 20 3 ROOM 1 20 5 ROOM 3 20 7 ROOM 3 20	ip Po A B C F A 1 0 VA 0 VA 0 VA 0 VA A 1 0 VA 0 VA 0 VA 0 VA A 1 0 VA 0 VA 0 VA 0 VA A 1 0 VA 0 VA 0 VA 0 VA A 1 0 VA 0 VA 0 VA	o Trip Type Load Circ N 1 20 A ROOM 7 2 1 1 20 A ROOM 7 4 1 1 20 A ROOM 7 4 1 1 20 A ROOM 8 6 1 1 20 A ROOM 8 8 1 1 20 A ROOM 8 10 10	Note Circuit Notes: Note Circuit Notes: 1 A: RM 9 - B: DR ACCESS 20 A 1 3 A: RM 9 - B: VESTIBULE 20 A 1 5 ROOM 10 20 A 1 7 ROOM 10 20 A 1 9 ROOM 11 20 A 1	A B C 0 VA 0 VA 0 VA 0 VA	Po Trip Type Load Circ 1 20 A ROOM 18 2 1 20 A ROOM 18 4 0 0.000 18 4 6

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Load AIR COMP R - ROOF SPARE	Туре	Trip	Po												
AIR COMP R - ROOF SPARE		20 4	1 0		Δ	F	B		<u>.</u>	Po	Trip	Type	Load	Circ	Note
AIR COMP R - ROOF SPARE		20 ∆	1	0 VA		-				1	20 A		R - ROOF	2	
R - ROOF SPARE			3	0 1/1	0 1/1	0 VA	0 VA			1	20 A		SPARE	4	
R - ROOF SPARE						• • • •		0 VA	0 VA	1	20 A		SPARE	6	
SPARE		20 A	1	0 VA	0 VA					1	20 A		R - ROOF	8	-
SDADE		20 A	1			0 VA	0 VA			1	20 A		SPARE	10	
JEARE		20 A	1			-		0 VA	0 VA	1	20 A		SPARE	12	
R - ROOF		20 A	1	0 VA	0 VA					1	20 A		SPARE	14	
SPARE		20 A	1			0 VA	0 VA			1	20 A		FREEZER	16	
SPARE		20 A	1			-		0 VA	0 VA	1	20 A		FREEZER	18	
L - EXTERIOR		20 A	1	0 VA	0 VA					1	20 A		SPARE	20	
						0 VA	0 VA							22	
TOP OVEN		50 A	3					0 VA	0 VA	3	50 A		BOTTOM OVEN	24	1
				0 VA	0 VA									26	1
SPARE		30 A	1			0 VA	0 VA			1	20 A		R - ROOF	28	
SPARE		20 A	1					0 VA	0 VA	1	20 A		SPARE	30	
		Total	Load:	0	VA	0 \	VA	0	VA						
		Total A	Amps:	0	А	0	A	0	A						
	Ph	ase Bal	ance:		% A-B		% B-C		% C-A	1					
				Connec	ted Load	Demano	d Factor	Deman	d Load				Panel Totals		
g				0	VA	0.0	0%	0	VA			Pow	ver Factor: 1		
tacle				0	VA	0.0	0%	0	VA						
				0	VA	0.0	0%	0	VA		Tota	al Connec	cted Load: 0 VA		
uous				0	VA	0.0	0%	0	VA		Total C	Connecte	d Current: 0 A		
al				0	VA	0.0	0%	0	VA						
า				0	VA	0.0	0%	0	VA		Т	otal Dema	and Load: 0 VA		
g				0	VA	0.0	0%	0	VA		Tota	al Deman	d Current: 0 A		
				0	VA	0.0	0%	0	VA						
	I - EATERIOR TOP OVEN SPARE SPARE SPARE	L - EXTERIOR TOP OVEN SPARE SPARE Ph acle ious i j s:	L - EXTERIOR 20 A TOP OVEN 50 A SPARE 30 A SPARE 20 A Total Total Total acle i j s:	L - EXTERIOR 20 A 1 TOP OVEN 50 A 3 SPARE 30 A 1 SPARE 20 A 1 Total Load: Total Load: Total Amps: Phase Balance: acle i s:	L - EXTERIOR 20 A 1 0 VA TOP OVEN 50 A 3 0 VA SPARE 30 A 1 0 VA SPARE 20 A 1 0 Total Load: 0 0 0 Total Amps: 0 0 0 Phase Balance: 0 0 acle 0 0 ious 0 0 ious 0 0 j 0 0 j 0 0 j 0 0	L-EXTERIOR20 A10 VA0 VATOP OVEN 50 A 3 0 VA0 VASPARE 30 A 10 VASPARE 20 A 10 VATotal Load:0 VATotal Load:0 VATotal Amps:0 APhase Balance:% A-BConnected Load0 A0 VA0 VA0 VA0 VA0 VA10 VA0 VA	L-EXTERIOR 20 A 1 0 VA 0 VA TOP OVEN 50 A 3 0 VA 0 VA SPARE 30 A 1 0 VA 0 VA SPARE 20 A 1 0 VA 0 VA SPARE 20 A 1 0 VA 0 VA SPARE 20 A 1 0 VA 0 VA Total Load: 0 VA 0 VA 0 VA 0 VA Phase Balance: % A-B 0 VA 0.0 acle 0 VA 0.0 0 VA 0.0 ious 0 VA 0.0 0.0 0.0 ious 0 VA 0.0 0.0 0.0 j 0 VA 0.0	L-EXTERIOR 20 A 1 0 VA 0 VA 0 VA TOP OVEN 50 A 3 0 VA 0 VA 0 VA 0 VA SPARE 30 A 1 0 VA 0 VA 0 VA 0 VA SPARE 20 A 1 0 VA 0 VA 0 VA 0 VA SPARE 20 A 1 0 VA 0 VA 0 VA 0 VA SPARE 20 A 1 0 VA 0 VA 0 VA SPARE 20 A 1 0 VA 0 VA 0 VA SPARE 20 A 1 0 VA 0 VA 0 VA Total Amps: 0 A 0 A 0 A 0 A 0 A Phase Balance: % A-B % B-C Connected Load Demand Factor gacle 0 VA 0.00% 0 VA </td <td>L-EXTERIOR 20 A 1 0 VA 0 VA 0 VA 0 VA TOP OVEN 50 A 3 0 VA 0 VA 0 VA 0 VA SPARE 30 A 1 0 VA 0 VA 0 VA 0 VA SPARE 20 A 1 0 VA 0 VA 0 VA 0 VA SPARE 20 A 1 0 VA 0 VA 0 VA 0 VA SPARE 20 A 1 0 VA 0 VA 0 VA 0 VA Total Load: 0 VA Total Amps: 0 A 0 A 0 A 0 A 0 A 0 A 0 VA acle 0 VA 0.00% 0 VA 0.00% 0 VA 0.00% 0 VA ious 0 VA 0.00% 0 VA 0.00% 0 VA 0.00% 0 VA g 0 VA 0.00% 0 VA 0.00% 0 VA 0.00% 0 VA ious 0 VA 0.00%<td>L-EXTERIOR 20 A 1 0 VA 0 VA 0 VA 0 VA TOP OVEN 50 A 3 0 VA <t< td=""><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>L-EXTERIOR 20 A 1 0 VA 1 20 A 1 20 A SPARE 20 A 1 0 VA 1 20 A SPARE 20 A 1 0 VA 0 VA</td><td>L-EXTERIOR 20 A 1 0 VA 0 VA</td><td>L-EXTERIOR 20 A 1 0 VA 0 VA</td><td>L-EXTERIOR 20A I 0VA 20A SPARE 20 TOP OVEN 30A 1 0VA 0VA 0VA 0VA 0VA 0VA 0VA 24 24 24 SPARE 30A 1 0VA 0VA 0VA 0VA 1 20A BOTTOM OVEN 24 SPARE 30A 1 0VA 0VA 0VA 1 20A R-ROOF 28 SPARE 20A 1 0VA 0VA 0VA 0VA 0VA SPARE 30 SPARE 20A 1 0VA 0VA 0VA 0VA 0VA SPARE 30 SPARE 20A 1 0VA 0VA 0VA 0VA SPARE 30 SPARE 20A 0VA 0VA 0VA 0VA 0VA SPARE 30 Spare 20A 0A 0A 0A 0A</td></t<></td></td>	L-EXTERIOR 20 A 1 0 VA 0 VA 0 VA 0 VA TOP OVEN 50 A 3 0 VA 0 VA 0 VA 0 VA SPARE 30 A 1 0 VA 0 VA 0 VA 0 VA SPARE 20 A 1 0 VA 0 VA 0 VA 0 VA SPARE 20 A 1 0 VA 0 VA 0 VA 0 VA SPARE 20 A 1 0 VA 0 VA 0 VA 0 VA Total Load: 0 VA Total Amps: 0 A 0 A 0 A 0 A 0 A 0 A 0 VA acle 0 VA 0.00% 0 VA 0.00% 0 VA 0.00% 0 VA ious 0 VA 0.00% 0 VA 0.00% 0 VA 0.00% 0 VA g 0 VA 0.00% 0 VA 0.00% 0 VA 0.00% 0 VA ious 0 VA 0.00% <td>L-EXTERIOR 20 A 1 0 VA 0 VA 0 VA 0 VA TOP OVEN 50 A 3 0 VA <t< td=""><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>L-EXTERIOR 20 A 1 0 VA 1 20 A 1 20 A SPARE 20 A 1 0 VA 1 20 A SPARE 20 A 1 0 VA 0 VA</td><td>L-EXTERIOR 20 A 1 0 VA 0 VA</td><td>L-EXTERIOR 20 A 1 0 VA 0 VA</td><td>L-EXTERIOR 20A I 0VA 20A SPARE 20 TOP OVEN 30A 1 0VA 0VA 0VA 0VA 0VA 0VA 0VA 24 24 24 SPARE 30A 1 0VA 0VA 0VA 0VA 1 20A BOTTOM OVEN 24 SPARE 30A 1 0VA 0VA 0VA 1 20A R-ROOF 28 SPARE 20A 1 0VA 0VA 0VA 0VA 0VA SPARE 30 SPARE 20A 1 0VA 0VA 0VA 0VA 0VA SPARE 30 SPARE 20A 1 0VA 0VA 0VA 0VA SPARE 30 SPARE 20A 0VA 0VA 0VA 0VA 0VA SPARE 30 Spare 20A 0A 0A 0A 0A</td></t<></td>	L-EXTERIOR 20 A 1 0 VA 0 VA 0 VA 0 VA TOP OVEN 50 A 3 0 VA 0 VA <t< td=""><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>L-EXTERIOR 20 A 1 0 VA 1 20 A 1 20 A SPARE 20 A 1 0 VA 1 20 A SPARE 20 A 1 0 VA 0 VA</td><td>L-EXTERIOR 20 A 1 0 VA 0 VA</td><td>L-EXTERIOR 20 A 1 0 VA 0 VA</td><td>L-EXTERIOR 20A I 0VA 20A SPARE 20 TOP OVEN 30A 1 0VA 0VA 0VA 0VA 0VA 0VA 0VA 24 24 24 SPARE 30A 1 0VA 0VA 0VA 0VA 1 20A BOTTOM OVEN 24 SPARE 30A 1 0VA 0VA 0VA 1 20A R-ROOF 28 SPARE 20A 1 0VA 0VA 0VA 0VA 0VA SPARE 30 SPARE 20A 1 0VA 0VA 0VA 0VA 0VA SPARE 30 SPARE 20A 1 0VA 0VA 0VA 0VA SPARE 30 SPARE 20A 0VA 0VA 0VA 0VA 0VA SPARE 30 Spare 20A 0A 0A 0A 0A</td></t<>	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	L-EXTERIOR 20 A 1 0 VA 1 20 A 1 20 A SPARE 20 A 1 0 VA 1 20 A SPARE 20 A 1 0 VA 0 VA	L-EXTERIOR 20 A 1 0 VA 0 VA	L-EXTERIOR 20 A 1 0 VA 0 VA	L-EXTERIOR 20A I 0VA 20A SPARE 20 TOP OVEN 30A 1 0VA 0VA 0VA 0VA 0VA 0VA 0VA 24 24 24 SPARE 30A 1 0VA 0VA 0VA 0VA 1 20A BOTTOM OVEN 24 SPARE 30A 1 0VA 0VA 0VA 1 20A R-ROOF 28 SPARE 20A 1 0VA 0VA 0VA 0VA 0VA SPARE 30 SPARE 20A 1 0VA 0VA 0VA 0VA 0VA SPARE 30 SPARE 20A 1 0VA 0VA 0VA 0VA SPARE 30 SPARE 20A 0VA 0VA 0VA 0VA 0VA SPARE 30 Spare 20A 0A 0A 0A 0A

1 Panel HVAC3 Location: Voltage: 120/208 Wye Supply From: MDP Phase: 3 Mounting: Surface Wire: 4 Enclosure: Type 1 Note Circ...

A.I.C. Rating: 42 KAIC

2

Mains Type: MLO Bus Rating: 250 A

Load

Panel Totals

Total Connected Load: 41232 VA

Total Demand Load: 43573 VA

Total Connected Current: 114 A

Total Demand Current: 121 A

Circuit Notes:

1

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11

13

19

23

29

31

3 ECUH-1

9 ECUH-2

15 ECUH-2 17

21 ECUH-2

25 27 EUH-1

33 ECUH-1

Load

F	4	

Β

С

D

Ε

	35									667 VA	0 VA					
	37					667 VA	0 VA									
	39	ECUH-3	М	20 A	3			667 VA	0 VA			3	20 A		SPARE	
	41									667 VA	0 VA					
	43					0 VA	0 VA									
	45	SPARE		20 A	3			0 VA	0 VA			3	20 A		SPARE	
	47									0 VA	0 VA					
	49						-									
	51	SPACE			3							3			SPACE	
	53															
	55															
	57	SPACE			3							3			SPACE	
	59															
			Load:	1374	4 VA	1374	4 VA	13744 VA								
	Total Amps					115 A		115 A		115 A						
			Ph	ase Bal	ance:	0	% A-B	0	% B-C	0	% C-A					
Load	Туре					Connected Load		Demand Factor		Deman	d Load				Panel T	ota
L	Lightin	g				0 VA		0.00%		0 VA				Pow	er Factor:	1
R	Recep	tacle				0 VA		0.00%		0 VA						
М	Motor					4123	2 VA	105.68%		43573 VA		Total Connected Load: 4			4	
С	Contin	uous				0 \	ЛА	0.0	0%	0 \	ЛА		Total	Connecte	d Current:	1
G	Genera	al				0 \	ЛА	0.0	0%	0 \	ЛА					
Κ	Kitcher	n				0 \	ЛА	0.00%		0 \	ЛА			Fotal Dem	and Load:	43
-	Existin	g				0 VA		0.00%		0 \	ЛА	Total Demand Current:				12
E		Other						0.00%		0 VA						

Panel H3 Location: Supply From: MDP Mounting: Recessed Enclosure: Type 1 Circuit Notes:							Voltage: Phase: Wire:	120/208 3 4	Wye			A	.I.C. Ratir Mains Typ Bus Ratir	ng: 22 Kaio De: MLO Ng: 225 A	C			
Note	Circ	boal	Туре	Trin	Po		۵		R		<u>c</u>	Po	Trin	Type		Load	Circ	No
Note	1			20 A	1			•				1	20 A			116	2	
	3	L - ROOM 24		20 A	1	0 1/1	0 1/1	0 VA	0 VA			1	20 A			V 16	4	+
	5	L - ROOM 24		20 A	1			0 171	0 1/1	0 VA	0 VA	1	20 A		L - ROOM	и 16 И 16	6	+
	7	L - ROOM 19		20 A	1	0 VA	0 VA					1	20 A		UNIT HE	ATERS	8	+
	9	L - ROOM 19		20 A	1			0 VA	0 VA			1	20 A		R - CLAS	SROOM	10	-
	11	L - ROOM 19		20 A	1			-	-	0 VA	0 VA	1	20 A		SPARE		12	+
	13	L - ROOM 18		20 A	1	0 VA	0 VA			-		1	20 A		SPARE		14	+
	15	L - ROOM 18		20 A	1			0 VA	0 VA			1	20 A		SPARE		16	+
	17	L - ROOM 18		20 A	1					0 VA	0 VA	1	20 A		SPARE		18	+
	19	L - ROOM 25, JANITOR		20 A	1	0 VA	0 VA					1	20 A		SPARE		20	1
	21	L - ROOM		20 A	1			0 VA	0 VA			1	20 A		R - ROO	M 17,18	22	+
	23	L - ROOM		20 A	1					0 VA	0 VA	1	20 A		SPARE		24	+
	25	L - ROOM 17		20 A	1	0 VA	0 VA					1	20 A		SPARE		26	1
	27	L - ROOM 17		20 A	1			0 VA	0 VA			1	20 A		SPARE		28	1
	29	L - ROOM 17		20 A	1					0 VA	0 VA	1	20 A		SPARE		30	1
			1	Total I	Load:	0	VA	0	VA	0	VA				1		I	
				Total A	mps:	0	А	0	А	0	А							
			Ph	ase Bala	ance:		% A-B		% B-C		% C-A	1						
Load	Туре					Connec	ted Load	Deman	d Factor	Demar	nd Load				Panel T	otals		
L	Lightir	ng				0	VA	0.0	0%	0	VA			Pow	er Factor:	1		
R	Recep	otacle				0	VA	0.0	0%	0	VA							
М	Motor					0	VA	0.0	0%	0	VA		Tota	al Connec	ted Load:	0 VA		
С	Contir	nuous				0	VA	0.0	0%	0	VA		Total C	Connecte	d Current:	0 A		
G	Gener	al				0	VA	0.0	0%	0	VA							
К	Kitche	en				0	VA	0.0	0%	0	VA		Т	otal Dema	and Load:	0 VA		
Е	Existir	ng				0	VA	0.0	0%	0	VA		Tota	al Deman	d Current:	0 A		
	O Other				0 VA 0.00%			0%	0 VA									

		Panel F	RR															
Location: Supply From: MDP Mounting: Surface Enclosure: Type 1 Circuit Notes:				Voltage: 120/208 Wye Phase: 3 Wire: 4					A.I.C. Rating: Mains Type: MLO Bus Rating: 225 A									
Note	Circ	Load	Type	Trip	Po		A	E	3)	Ро	Trip	Туре		Load	Circ	.
	1	S WATER COOLER		20 A	1	0 VA	0 VA					1	20 A		L - S EN	ſRY	2	t
	3	N WATER COOLER		20 A	1			0 VA	0 VA			1	20 A		L - OUTS	SIDE	4	1
	5	R - MUSIC, RR		20 A	1					0 VA	0 VA	1	20 A		L - N EN	TRY	6	T
	7	R - CLASSROOM 24		20 A	1	0 VA	0 VA					1	20 A		L - RR		8	T
	9	R - CLASSROOM 24		20 A	1			0 VA	0 VA			1	20 A		L - LIBRA	ARY	10	t
	11	R - CLASSROOM 22,23		20 A	1					0 VA	0 VA	1	20 A		L - LIBRA	ARY	12	
	13	R - LIBRARY, HALL		20 A	1	0 VA	0 VA					1	20 A		L - LIBRA	ARY	14	
	15	R - RM 9		20 A	1			0 VA	0 VA			1	20 A		L - CLAS	SROOM 21	16	T
	17	R - RM 10,11		20 A	1					0 VA	0 VA	1	20 A		L - CLAS	SROOM 21	18	
	19	R - 10,11		20 A	1	0 VA	0 VA					1	20 A		L - CLAS	SROOM 22	20	T
	21	SPARE		20 A	1			0 VA	0 VA			1	20 A		L - CLAS	SROOM 22	22	
	23	S ENTRY HEATER		20 A	1					0 VA	0 VA	1	20 A		L - CLAS	SROOM 23	24	T
	25	N ENTRY HEATER		20 A	1	0 VA	0 VA					1	20 A		L - CLAS	SROOM 23	26	
	27	SPARE		20 A	1			0 VA	0 VA			1	20 A		L - CLAS	SROOM 24	28	T
	29	SPARE		20 A	1					0 VA	0 VA	1	20 A		L - CLAS	SROOM 24	30	T
	31	SPARE		20 A	1	0 VA	0 VA					1	20 A		SPARE		32	T
	33	SPARE		20 A	1			0 VA	0 VA			1	20 A		R - LIBR/	ARY	34	
	35	SPARE		20 A	1					0 VA	0 VA	1	20 A		SPARE		36	
	37	SPARE		20 A	1	0 VA	0 VA										38	
	39	SPARE		20 A	1			0 VA	0 VA			3	20 A		SPARE		40	1
	41	SPARE		20 A	1					0 VA	0 VA						42	1
			I	Total	Load:	0	VA	0 \	VA	0	/A		1				I	
				Total A	mps:	0	А	0	А	0	А	1						
			Ph	ase Bal	ance:		% A-B		% B-C		% C-A	1						
Load	Туре					Connec	ted Load	Demano	d Factor	Deman	d Load				Panel To	otals		
L	Lightir	ng				0	VA	0.0	0%	0 '	ΛN			Pow	er Factor:	1		
R	Recep	otacle				0	VA	0.0	0%	0 '	/A							
М	M Motor			0	VA	0.0	0%	0 '	VΑ		Tota	al Connec	ted Load:	0 VA				
С	Contin	uous				0	VA	0.0	0%	0 '	/A		Total (Connecte	d Current:	0 A		
G	Gener	al				0	VA	0.0	0%	0 '	VΑ							
К	Kitche	n				0	VA	0.0	0%	0 '	VΑ		Т	otal Dema	and Load:	0 VA		
Е	Existir	ng				0	VA	0.0	0%	0 '	/A		Tot	al Deman	d Current:	0 A		
0	Other					0	VA	0.0	0%	0	ΛA							

Pa Loc Supply Mou Encl Circuit Notes:	nel HVAC2 ation: From: MDP nting: Surface osure: Type 1	Voltage: 120/208 Wye Phase: 3 Wire: 4	A.I.C. Rating: 42 KAIC Mains Type: MLO Bus Rating: 600 A	Circuit Notes:	Panel HVAC1 Location: Supply From: MDP Mounting: Surface Enclosure: Type 1	Voltage: 120/208 Wye Phase: 3 Wire: 4	A.I.C. Rating: 42 KAIC Mains Type: MLO Bus Rating: 600 A	
NoteCircLoad13RTU-55799RTU-61111131515RTU-71717171721RTU-823252727RTU-102929313330RTU-15353739RTU-16414345RTU-17474951SPARE535557SPARE5957SPARE5957SPARE5057SPARE5957SPARE5957SPARE5957SPARE5957SPARE5957SPARE5957SPARE5957SPARE5957SPARE5957SPARE5957SPARE5957SPARE5957SPARE5957SPARE5957SPARE595757575857595950515253545557 <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>B C I 3411 VA 4131 VA 3411 VA 4131 VA 3411 VA 4131 VA 3411 VA 4131 VA VA 3411 VA 4131 VA 4131 VA VA 4131 VA 4131 VA 4131 VA VA 4131 VA 0 VA 0 VA 4131 VA 0 VA 0 VA 0 VA Q 0 VA 0 VA 0 VA Q 0 VA 0 VA</td> <td>PoTripTypeLoad345 AMRTU-18345 AMRTU-20345 AMRTU-22345 AMRTU-22345 AMRTU-23345 AMRTU-24345 AMRTU-28345 AMRTU-28340 ASPARE340 ASPARE340 ASPARE340 ASPARE340 ASPARE40 ASPARE340 ASPARE340 ASPARE40 ASPARE40 ASPARE5TOTAL CONNECTE LOAGI172928 VA40 A175810 VA40 A175810 VA</td> <td>Circ Note Note Circ Image: Circ 2 1 3 RTU- 4 5 7 RTU- 6 7 9 RTU- 10 11 13 RTU- 12 11 13 RTU- 14 13 15 RTU- 16 15 RTU- 23 20 21 RTU- 23 22 24 23 25 28 31 31 33 30 29 31 34 36 35 35 36 38 37 39 RTU- 40 43 45 RTU- 44 43 45 RTU- 50 57 SPAF 50 57 SPAF 56 57 SPAF 50 57 SPAF 50 57 SPAF 50 57 SPAF 58 57 SPAF <!--</td--><td>Load Type Trip Po 1 M 35 A 3 3 M 40 A 3 4 M 40 A 3 9 M 40 A 3 11 M 40 A 3 12 M 40 A 3 13 M 40 A 3 14 M 40 A 3 21 M 45 A 3 RE 30 A 3 Total Load: Total Amps: Phase Balance </td><td>ABC2750 VA4131 VA2750 VA4131 VA2750 VA4131 VA3411 VA4131 VA4131 VA4131 VA4131 VA4131 VA3411 VA4131 VA4131 VA4131 VA4131 VA3411 VA4131 VA4131 VA4131 VA4131 VA3411 VA720 VA$200$$3411$ VA3411 VA720 VA$200$$3411$ VA3411 VA720 VA$200$$3411$ VA3411 VA0 VA$200$$3411$ VA3411 VA0 VA$200$$3411$ VA3411 VA0 VA$200$$3411$ VA0 VA0 VA0 VA</td><td>PoTripTypeLoadA345 AMRTU-24A345 AMRTU-25A345 AMRTU-26A345 AMRTU-29A345 AMRTU-29A345 AMRTU-30A345 AMRTU-30A120 ARR ROOFA120 ARR ROFA120 ARR ROFA120 ARR ROFA340 ASPAREA330 ASPAREA330 ASPAREATotal Connected Load:168963 VAATotal Demand Load:171845 VAATotal Demand Load:171845 VA</td><td>Circ Note 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60</td></td>	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	B C I 3411 VA 4131 VA 3411 VA 4131 VA 3411 VA 4131 VA 3411 VA 4131 VA VA 3411 VA 4131 VA 4131 VA VA 4131 VA 4131 VA 4131 VA VA 4131 VA 0 VA 0 VA 4131 VA 0 VA 0 VA 0 VA Q 0 VA 0 VA 0 VA Q 0 VA 0 VA	PoTripTypeLoad345 AMRTU-18345 AMRTU-20345 AMRTU-22345 AMRTU-22345 AMRTU-23345 AMRTU-24345 AMRTU-28345 AMRTU-28340 ASPARE340 ASPARE340 ASPARE340 ASPARE340 ASPARE40 ASPARE340 ASPARE340 ASPARE40 ASPARE40 ASPARE5TOTAL CONNECTE LOAGI172928 VA40 A175810 VA40 A175810 VA	Circ Note Note Circ Image: Circ 2 1 3 RTU- 4 5 7 RTU- 6 7 9 RTU- 10 11 13 RTU- 12 11 13 RTU- 14 13 15 RTU- 16 15 RTU- 23 20 21 RTU- 23 22 24 23 25 28 31 31 33 30 29 31 34 36 35 35 36 38 37 39 RTU- 40 43 45 RTU- 44 43 45 RTU- 50 57 SPAF 50 57 SPAF 56 57 SPAF 50 57 SPAF 50 57 SPAF 50 57 SPAF 58 57 SPAF </td <td>Load Type Trip Po 1 M 35 A 3 3 M 40 A 3 4 M 40 A 3 9 M 40 A 3 11 M 40 A 3 12 M 40 A 3 13 M 40 A 3 14 M 40 A 3 21 M 45 A 3 RE 30 A 3 Total Load: Total Amps: Phase Balance </td> <td>ABC2750 VA4131 VA2750 VA4131 VA2750 VA4131 VA3411 VA4131 VA4131 VA4131 VA4131 VA4131 VA3411 VA4131 VA4131 VA4131 VA4131 VA3411 VA4131 VA4131 VA4131 VA4131 VA3411 VA720 VA$200$$3411$ VA3411 VA720 VA$200$$3411$ VA3411 VA720 VA$200$$3411$ VA3411 VA0 VA$200$$3411$ VA3411 VA0 VA$200$$3411$ VA3411 VA0 VA$200$$3411$ VA0 VA0 VA0 VA</td> <td>PoTripTypeLoadA345 AMRTU-24A345 AMRTU-25A345 AMRTU-26A345 AMRTU-29A345 AMRTU-29A345 AMRTU-30A345 AMRTU-30A120 ARR ROOFA120 ARR ROFA120 ARR ROFA120 ARR ROFA340 ASPAREA330 ASPAREA330 ASPAREATotal Connected Load:168963 VAATotal Demand Load:171845 VAATotal Demand Load:171845 VA</td> <td>Circ Note 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60</td>	Load Type Trip Po 1 M 35 A 3 3 M 40 A 3 4 M 40 A 3 9 M 40 A 3 11 M 40 A 3 12 M 40 A 3 13 M 40 A 3 14 M 40 A 3 21 M 45 A 3 RE 30 A 3 Total Load: Total Amps: Phase Balance	ABC2750 VA 4131 VA 2750 VA 4131 VA 2750 VA 4131 VA3411 VA 4131 VA 4131 VA 4131 VA 4131 VA 4131 VA3411 VA 4131 VA 4131 VA 4131 VA 4131 VA3411 VA 4131 VA 4131 VA 4131 VA 4131 VA3411 VA 720 VA 200 3411 VA3411 VA 720 VA 200 3411 VA3411 VA 720 VA 200 3411 VA3411 VA 0 VA 200 3411 VA3411 VA 0 VA 200 3411 VA 3411 VA 0 VA 200 3411 VA 0 VA 0 VA 0 VA	PoTripTypeLoadA345 AMRTU-24A345 AMRTU-25A345 AMRTU-26A345 AMRTU-29A345 AMRTU-29A345 AMRTU-30A345 AMRTU-30A120 ARR ROOFA120 ARR ROFA120 ARR ROFA120 ARR ROFA340 ASPAREA330 ASPAREA330 ASPAREATotal Connected Load:168963 VAATotal Demand Load:171845 VAATotal Demand Load:171845 VA	Circ Note 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60
Note Circuit Notes:	Type Trip Po A ining: Recessed osure: Type No A 20 A 1 0 VA 0 V 20 A 1 0 VA 0 VA 20 A 1 0 VA<	Voltage: 120/208 Wye Phase: 3 Wire: 4 Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	AI.C. Rating: 10 KAIC Mains Type: MLO Bus Rating: 225 A 20 A L - RM 6 1 20 A L - RM 5 1 20 A L - RM 4 1 20 A L - RM 7 1 20 A SPARE 1 20 A SPAR	Circuit Notes: 2 1 L-R 4 3 L-R 6 5 L-R 8 7 L-R 10 9 L-R 12 11 L-R 14 3 L-R 16 5 L-R 18 7 L-R 20 19 L-R 14 13 L-E 18 17 L-W 20 19 L-R 22 21 L-R 23 L-R 29 24 23 L-R 25 A: R 29 28 27 SPAR 30 29 SPAR Lighting R Receptacle M Motor C Continuous G General K Kitchen E Existing O O Other General Notes:	Location: Supply From: MDP. Mounting: Recessed. Enclosure: Type 1 Image: Type 1	Voltage: 120/208 Wye: Phase: 3 Wire: 4 Phase: 3 Wire: 4 \vee	A.I.C. Rating: 22 KAIC Mains Type: MLO Bus Rating: 225 A Po Trip Type Load 1 20 A SPARE 1 20 A CORRIDOR 1 20 A L - CORRIDOR 1 20 A OFFICE 1 20 A OFFICE 1 20 A OFFICE 1 20 A COFFICE 1 20 A SPARE 1 20 A SPARE 1 20 A SPARE 1 20 A SPARE 1 20 A OFFICE 1 20 A SPARE 1 20 A	Circ Note 2 4 4 6 8 10 12 14 16 20 22 22 24 26 28 30
Note Circuit Notes: Note Circuit Spare 1 Spare 1 LTG - CLASSROW 11 LTG - CLASSROW 13 LTG - CLASSROW 13 LTG - CLASSROW 13 LTG - CLASSROW 14 Spare 15 RCPT - RM 22,23 17 Spare 23 Spare 24 Spare 25 Spare 26 Spare 27 Spare 29 Spare 29 Spare	Type Trip Po A Type Trip Po A osure: Type Trip Po A 20 A 1 0 VA 0 V DM 22 20 A 1 0 VA 0 V DM 23 20 A 1 0 VA 0 V DM 23 20 A 1 0 VA 0 V DM 23 20 A 1 0 VA 0 V DM 21 20 A 1 0 VA 0 V DM 21 20 A 1 0 VA 0 V DM 20 20 A 1 0 VA 0 V 0.1 20 A 1 0 VA 0 V </td <td>Voltage: 120/208 Wye Phase: 3 Wire: 4 Nore: 4 O VA O VA I O VA O VA O VA I O VA O VA O VA O VA I O VA O VA O VA O VA I O VA O VA O VA O VA I O VA O VA O VA O VA I O VA O VA O VA O VA I O VA O VA O VA O VA I O VA O VA O VA O VA I O VA O VA O VA I I O VA O VA O VA I I O VA O VA I <thi< th=""> I I <</thi<></td> <td>A.I.C. Rating: 10 KAIC: Mains Type: MLO: Bus Rating: 225 A Po Trip Type Load 1 20 A LTG - CLASSROOM 22 1 20 A LTG - CLASSROOM 22 1 20 A LTG - CLASSROOM 22 1 20 A LTG - CLASSROOM 23 1 20 A LTG - CLASSROOM 21 1 20 A LTG - CLASSROOM 21 1 20 A LTG - CLASSROOM 21 1 20 A LTG - CLASSROOM 20 1 20 A LTG - CLASSROOM 20 1 20 A SPARE 1 20 A SPARE</td> <td>Circ Note 2 4 4 6 8 10 12 14 16 18 20 22 24 26 28 30</td> <td></td> <td></td> <td></td> <td></td>	Voltage: 120/208 Wye Phase: 3 Wire: 4 Nore: 4 O VA O VA I O VA O VA O VA I O VA O VA O VA O VA I O VA O VA O VA O VA I O VA O VA O VA O VA I O VA O VA O VA O VA I O VA O VA O VA O VA I O VA O VA O VA O VA I O VA O VA O VA O VA I O VA O VA O VA I I O VA O VA O VA I I O VA O VA I I I O VA O VA I <thi< th=""> I I <</thi<>	A.I.C. Rating: 10 KAIC: Mains Type: MLO: Bus Rating: 225 A Po Trip Type Load 1 20 A LTG - CLASSROOM 22 1 20 A LTG - CLASSROOM 22 1 20 A LTG - CLASSROOM 22 1 20 A LTG - CLASSROOM 23 1 20 A LTG - CLASSROOM 21 1 20 A LTG - CLASSROOM 21 1 20 A LTG - CLASSROOM 21 1 20 A LTG - CLASSROOM 20 1 20 A LTG - CLASSROOM 20 1 20 A SPARE	Circ Note 2 4 4 6 8 10 12 14 16 18 20 22 24 26 28 30				

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M Motor C Continuous G General K Kitchen E Existing O Other General Notes:

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0.00%

0 VA

Total Connected Current: 0 A

Total Demand Load: 0 VA

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KEYNOTES

- E1 EXISTING EQUIPMENT TO BE REMOVED THROUGH DEMO PHASE. DEMO CONDUIT AND ASSOCIATED BRANCH CIRCUITRY BACK TO PANEL. TURN BREAKER TO OFF POSITION AND RE-LABEL AS SPARE.
- E2 EXISTING EQUIPMENT TO BE REMOVED THROUGH DEMO. PRESERVE AND PROTECT EXISTING CIRCUITRY FOR RE-USE. ENSURE CIRCUIT CONTINUITY OF DOWNSTREAM DEVICES AND ADJACENT SPACES IS MAINTAINED THROUGHOUT WORK.
- E12 EXISTING CEILING IN THIS ROOM TO BE REMOVED THROUGH DEMO. REMOVE ALL CEILING MOUNTED POWER, FIRE ALARM AND LOW VOLTAGE OUTLETS. PRESERVE AND PROTECT EXISTING CIRCUITRY FOR RE-USE. ENSURE CIRCUIT CONTINUITY OF DOWNSTREAM DEVICES AND ADJACENT SPACES IS MAINTAINED THROUGHOUT WORK.

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