

ZLA LOS ANGELES AIR ROUTE TRAFFIC CONTROL CENTER







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	Revision	Sheet Number	Sheet Name
			GENERAL
		G001	TITLE SHEET
		G002	CODE REVIEW
		G003	
		G004	
		G005	
		G007	MECH ATTIC LIFE SAFETY PLAN
			STRUCTURAL
		S001	STRUCTURAL NOTES
		S002	SCHEDULES
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		S101	FOOTING AND FOUNDATION PLAN
		S102	MEZZANINE FRAMING PLAN
		S103	FRAMING PLANS
		S201	DETAILS
		S202	
		S203	
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		A103	MEZZANINE PLAN
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		A502	DETAILS
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		A601	DOOR SCHEDULE AND TYPES
			FIRE PROTECTION
		FP102	FIRE SPRINKLER PLAN LEVEL 1
		FP103	FIRE SPRINKLER PLAN ATTIC
		FP105	PRE-ACTION FIRE SPRINKLER DETECTION PLAN ATTIC LEVEL
			MECHANICAL
		MD101	MECHANICAL DEMOLITION PLAN
		M001	MECHANICAL LEGEND, NOTES AND SCHEDULES
		M101	FIRST FLOOR MECHANICAL PLAN
		M102	MEZZANINE MECHANICAL PLAN
		M103	
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		M601	CONTROLS
		M602	DDCP POINT FUNCTION SCHEDULE
			ELECTRICAL
		E174	ELECTRICAL LEGEND. SYMBOLS. NOTES AND ABBREVIATIONS
		E175	FIRST FLOOR ELECTRICAL DEMOLITION PLAN
		E176	FIRST FLOOR POWER AND GROUNDING PLAN
		E177	ATTIC POWER PLAN
		E178	FIRST FLOOR LIGHTING PLAN
		E180	FIRST FLOOR DATA / TELCO / PA SYSTEM PLAN
1 1		E181	FIRST FLOOR CABLE TRAY PLAN
		E400	
		E182	ELECTRICAL DETAILS

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	GENERAL NOTES	
	A. DIMENSION LINES SHOWN ON ARCHITECTURAL SHEETS ARE FROM COLUMN CENTER LINES AND FACE OF MASONRY, CONCRETE OR FINISHED FACE OF WALL, UNLESS OTHERWISE NOTED.	1.
	B. FIELD VERIFY EXISTING CONDITIONS & DIMENSIONS BEFORE DEMOLITION OF BUILDING SYSTEMS. COORDINATE DEMOLITION WITH THE WORK AND NOTIFY COR OF CONFLICTS. NO DEMOLITION WORK SHALL PROCEED UNTIL CONFLICTS ARE RESOLVED TO SATISFACTION OF COR.	
	C. FINISHES & ASSOCIATED ADJACENT FINISHES AFFECTED BY THE WORK SHALL BE PATCHED AND REPAIRED TO MATCH EXISTING FINISHES. UNLESS OTHERWISE NOTED.	
	D. VERIFY DEMOLITION REQUIRED TO FACILITATE ROUTING OF MECHANICAL AND ELECTRICAL SYSTEMS. FOR DEMOLITION REQUIRED OUTSIDE OF AREA SHOWN ON ARCHITECTURAL DRAWINGS, REFER TO MECHANICAL AND ELECTRICAL FOR ITEMS TO BE REMOVED.	2.
	E. THE BUILDING SHALL BE OCCUPIED BY FAA DURING CONSTRUCTION. COORDINATE THE WORK WITH COR TO AVOID DISRUPTING FAA OPERATIONS.	
	F. NO DUST, ODOR, FUMES OR DISCERNIBLE NOISE SHALL BE GENERATED BY THE WORK THAT IS DETECTABLE ANYWHERE IN THE FACILITY OUTSIDE THE IMMEDIATE AREA OF CONSTRUCTION WORK.	
	G. CLEAN CONSTRUCTION AREAS DAILY. CONSTRUCTION DEBRIS & EQUIPMENT SHALL NOT BE LEFT IN OCCUPIED AREAS.	
	H. MAINTAIN FIRE RATINGS OF FIRE RATED ASSEMBLIES IN FLOORS, WALLS, CEILINGS, ROOFS OR SMOKE BARRIERS PENETRATED BY DUCTS, ELECTRICAL CONDUITS, PIPES AND OTHER PENETRATIONS CAUSED BY THE WORK OF THIS PROJECT WITH AN APPROVED U.L. SYSTEM. WHERE WORK IS REQUIRED ON BUILDINGS WHICH ARE PART OF THE FACILITY, COORDINATE WITH COR TO VERIFY EXISTING CONDITION OF BUILDING SYSTEMS (INCLUDING EXTERIOR WALLS, PARTITIONS, FLOORS, CEILINGS AND ROOFS) BEFORE ANY DEMOLITION OR CONSTRUCTION.	
	I. DO NOT SCALE DRAWINGS. THE GRAPHICAL SCALE SHOWN IS FOR REFERENCE ONLY AND NOT TO BE USED TO SCALE DRAWINGS FOR CONSTRUCTION.	3.
	J. EXISTING FAA COMPUTER AND OTHER SENSITIVE EQUIPMENT SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. COORDINATE WITH COR DEMOLITION WORK THAT MAY CAUSE VIBRATION OR DISRUPTION TO EQUIPMENT IN THE WORK AREA. PROVIDE DUST PROOF PARTITIONS AND BARRIERS AS REQUIRED BY COR TO PROTECT ACTIVE FOURPMENT. COORDINATE WITH COR NOT TO DISRUPT FAA OPERATIONS	4. 5.
	ACCOMMODATE THE 24-HOUR OPERATIONAL FACILITY SCHEDULE AND REQUIREMENTS. K. PROVIDE OPENINGS THROUGH EXISTING WALLS (GWB, MASONRY AND CONCRETE) FOR PROVISION OF ARCHITECTURAL, MECHANICAL, ELECTRICAL & FIRE PROTECTION	AIF
	L. BUILDING CONTAINS HAZARDOUS MATERIALS (HAZMAT). NO HAZMAT IN AREA OF WORK.	CC 25
	M. UNSCHEDULED INTERRUPTIONS IN FAA OPERATIONS SHALL BE NOT TOLERATED. WORK REQUIRING PERMANENT, TEMPORARY OR PARTIAL OUTAGES SHALL BE SCHEDULED AND APPROVED IN WRITING BY COR AT LEAST 10 WORKING DAYS IN ADVANCE OF PERFORMANCE OF WORK.	(FC PA 93
	N. EXISTING BUILDING FLOOR PLANS AND SITE PLANS FOR THE EXISTING BUILDING CONSTRUCTION PRESENTED IN THIS DOCUMENT WERE OBTAINED FROM THE FAA. FIELD VERIFY EXISTING CONDITION PRIOR TO ANY CONSTRUCTION WORK REQUIRED.	
	O. LIGHTING LEVELS IN CONSTRUCTION WORK AREAS TO FOLLOW OSHA GUIDELINES PER UNITED STATES DEPARTMENT OF LABOR OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA) 1926 SAFETY AND HEALTH REQUIREMENTS FOR CONSTRUCTION, SUBPART D, TITLE OCCUPATIONAL HEALTH AND ENVIRONMENTAL CONTROLS, 1926.56 ILLUMINATION. AT NOT TIME SHALL ILLUMINATION BE LESS THAN 5fc IN ALL AREAS OF WORK.	
	P. PERSONAL PROTECTION EQUIPMENT TO BE WORN AT ALL TIMES BY CONSTRUCTION PERSONNEL WHILE IN THE AREA. THIS PPE SHALL INCLUDE HARD HAT, EYE PROTECTION, GLOVES, STEEL-TOED SHOES AND HEARING PROTECTION.	
		OF STEVEN J. PETERSON 6830295-0301 SFD A R C 02/04/2022
		Case, Lowe & Hart, Inc. 24 Suite 510 Ogden, Uta 801.399.5821 ww





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## **CONSTRUCTION STAGING PLAN NOTES:**

THE FOLLOWING NOTES AND ACCOMPANYING "CONSTRUCTION STAGING PLAN" REPRESENT MANY OF THE MAJOR REQUIREMENTS STATED IN "DIVISION I - GENERAL REQUIREMENTS" OF THE SPECIFICATIONS. THESE NOTES PARAPHRASE DIVISION I REQUIREMENTS AND ARE NOT INTENDED TO MODIFY OR REPLACE ANY DIVISION I REQUIREMENTS.

CONSTRUCTION ACCESS, CONTRACTORS PARKING, CONSTRUCTION OFFICES AND THE EXTENT/SIZE OF THE CONSTRUCTION STAGING AREA MUST BE COORDINATED WITH COR. see specifications div 1 section 01 50 00 temporary facilities

## A. CONSTRUCTION ACCESS

- A.1 CONTRACTOR'S VEHICLES, PEDESTRIANS AND ALL DELIVERIES TO THE SITE SHALL BE THROUGH THE MAIN FAA SECURITY GATE. THIS GATE IS MANNED 24 HOURS A DAY.
- A.2 ALL DELIVERIES SHALL BE SCHEDULED IN ADVANCE WITH COR AND AT TIMES OTHER THAN THE FAA EMPLOYEE SHIFT CHANGES TO AVOID CONGESTION. FAA SHIFT CHANGES OCCUR FROM 6:30 AM TO 8:00 AM AND FROM 2:30 PM TO 4:00 PM.
- A.3 THE CONTRACTOR SHALL PROVIDE SIGNAGE TO INDICATE THE ACCESS ROUTE FOR CONSTRUCTION EMPLOYEES AND DELIVERIES ON THE SITE. PROVIDE NECESSARY BARRICADES, LIGHTS, SIGNAGE AND FENCING TO PROTECT, WARN AND DIRECT ALL PERSONS NEAR THE CONSTRUCTION AREAS.
- A.4 CONTRACTOR'S ACCESS TO THE BUILDING SHALL BE LIMITED TO THE FOLLOWING LOCATIONS: 1). LOADING DOCK; 2). GRADE LEVEL ENTRANCE TO STAIR "3"; 3). OR AS DIRECTED BY THE COR. FREIGHT ELEVATOR WILL BE USED ONLY WITH COR APPROVAL FOR LARGE OR HEAVY EQUIPMENT.
- A.5 CONTRACTOR SHALL KEEP LOADING DOCK AND CAFETERIA ACCESSIBLE AT ALL TIMES FOR FAA DELIVERIES.
- A.6 CONTRACTOR'S ROUTE FROM STAGING AREA TO THE AREA OF WORK IS TO BE ESTABLISHED BY THE COR.

## B. CONTRACTOR PARKING

- B.1 ALL CONTRACTOR PARKING SHALL BE LIMITED TO CONSTRUCTION STAGING AREA AS ESTABLISHED BY THE C ADDITIONAL PARKING MAY BE PROVIDED (IF AVAILABLE) BY WRITTEN REQUEST TO THE COR.
- B.2 ADDITIONAL PARKING, IF NECESSARY SHALL BE OFF SITE AND COORDINATED BY THE CONTRACTOR
- B.3 PROVIDE SIGNAGE AS NECESSARY TO RESERVE THIS AREA FOR CONTRACTOR PARKING ONLY.
- C. FAA SECURITY REQUIREMENTS
- C.1 AN ADVANCE LIST OF CONSTRUCTION PERSONNEL SHALL BE PROVIDED TO THE COR. TEMPORARY SECURITY BADGES WILL BE ISSUED TO CONSTRUCTION PERSONNEL. EACH CONSTRUCTION EMPLOYEE SHALL CHECK IN AND OUT AT THE MAIN GATE. THE CONTRACTOR SUPERVISORY PERSONNEL SHALL BE RESPONSIBLE FOR THE CONDUCT OF THEIR PERSONNEL WHILE ON SITE. ALL CONTRACTORS' VEHICLES SHALL BE MARKED AS SUCH.
- C.2 THE SITE IS A SECURE AREA. ACCESS FOR ALL CONSTRUCTION PERSONNEL IS LIMITED TO THE CONSTRUCTION AREA AND DESIGNATED ACCESS ROUTES AT ALL TIMES.
- C.3 FAA ESCORTS are REQUIRED FOR CONSTRUCTION PERSONNEL WORKING WITHIN THE premises.
- C.4 THE CONTRACTOR SHALL USE GREAT CARE AND CAUTION WHILE WORKING WITHIN THE AUTOMATION WING, MECHANICAL AND ELECTRICAL ROOMS. ALL WORK MUST BE COORDINATED WITH COR. DISRUPTION OF THE SERVICES OF THIS FACILITY WILL NOT BE PERMITTED.

## D. CONSTRUCTION MATERIAL STORAGE

- D.1 STORAGE OF CONSTRUCTION MATERIALS AND TRAILERS ON THE SITE SHALL BE LIMITED TO THE CONSTRUCTION STAGING AREAS. MATERIALS SHALL BE NEATLY STORED AND PROTECTED AT ALL TIMES. A CONSTRUCTION FENCE SHALL BE INSTALLED AT THE DIRECTION OF THE COR. CONSTRUCTION MATERIALS, FENCING, VEHICLES, AND THE TRAILER SHALL BE LOCATED At a location determined by the cor. CONTRACTOR SHALL DO NO DIGGING WITHOUT PERMISSION FROM COR. BURIED CABLES (UNDERGROUND UTILITIES) RUN THROUGH THE STAGING AREA AND ELSEWHERE.
- D.2 THE CONSTRUCTION STAGING AREA'S EXACT SIZE AND LOCATION SHALL BE DETERMINED AT THE PRECONSTRUCTION CONFERENCE BY THE FAA. REFER TO CONSTRUCTION STAGING PLAN FOR APPROXIMATE INFORMATION.
- D.3 CONSTRUCTION LIGHTING SHALL BE PROVIDED AS REQUIRED IN THE CONSTRUCTION STAGING AREA TO ILLUMINATE ADEQUATELY THE AREA FOR SAFE NIGHT WORK. ALL LIGHTING SHALL BE APPROVED BY THE CONTRACTING OFFICER REPRESENTATIVE BEFORE USE. UPON COMPLETION OF CONSTRUCTION, REMOVE ALL CONSTRUCTION LIGHTING. ALL AREAS AND SURFACES DISTURBED SHALL BE REPAIRED AND/OR REPLACED BY THE CONTRACTOR.
- E. CONSTRUCTION DEBRIS
- E.1 ENCLOSED DUMPSTERS FOR DISPOSAL OF CONSTRUCTION DEBRIS SHALL BE PROVIDED BY THE CONTRACTOR WITHIN THE STAGING AREA. THE AREAS AROUND THE DUMPSTERS SHALL BE KEPT CLEAN AND FREE OF EXCESS DEBRIS AND DUST DURING CONSTRUCTION. ALL DEBRIS SHALL BE REMOVED BY CONTRACTOR.
- CONSTRUCTION OFFICE
- F.1 CONTRACTOR TRAILER SHALL BE LOCATED IN THE CONSTRUCTION STAGING AREA, AS SHOWN ON DRAWING CONTRACTOR SHALL PROVIDE TELEPHONE FOR HIS USE. CONSTRUCTION MATERIALS, FENCING, VEHICLES, THE TRAILER SHALL BE LOCATED AT A LOCATION DETERMINED BY THE COR. THE CONTRACTOR SHALL PROV ALL NECESSARY POWER AND WATER FOR THE OFFICE TRAILER.

F.2 not used.





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		G.1	Por With	TABLE CHEMICAL TOIL	ETS SHALL BE	E PROVIDED BY REA AT THE CO	THE CONTRACTOR A	IS REQUIRED SE.			
		<u>H.</u>	DEI	MOLITION AND C	ONSTRUC	TION HOUF	RS				
		H.1	THE THE 7:00	CONTRACTOR SHALL N FACILITY. DEMOLITION AM AND 8:30 PM.	NOT INTERFER	RE WITH THE AI RUCTION NOISE	R TRAFFIC CONTROL MUST BE MINIMIZED	EVINCTION C BETWEEN	)F		
		H.2	NOT	USED.							
		H.3	SCH	EDULE ALL NOISY DEM		NIMUM OF 10 DA	AYS IN ADVANCE WIT				
		П.4	WILL 5:00	. BE PERFORMED IN A I AM ONLY AT PREARRA	DRILLING, CC DUST FREE M, NGED TIMES ,	ANNER BETWEE	ITTON AND ANCHOP IN THE HOURS OF 1:1 THE COR.	00 AM AND			G
		<u>l.</u>	PA	RKING LOT DRIVI	EWAY AND	D LAWN ARE	EA REPAIR				
		l.1	UPO Dam	N COMPLETION OF WO	RK THE CONT	RACTOR SHALL S, TO ORIGINAL	. REPAIR ALL PAVED CONDITION.	SURFACES,			
		1.2	LAW CON	N AREAS DISTURBED E IDITION. DISTURBED LA	BY CONSTRUC	TION ACTIVITY	SHALL BE RESTOREI H SOD, SEEDING IS (	D TO ORIGINA JNACCEPTAB	AL BLE.		
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		K.2	SHU <sup>-</sup> BETV PRIC	TDOWN AND CUTOVERS NEEN THE HOURS OF 1:( NR TO SHUTDOWN, AND (	OF ELECTRICA 00 AM AND 5:00 CUTOVER SHAI	L AND MECHANI AM. ALL PREPAR L BE SCHEDULE	CAL SYSTEMS SHALL I RATORY WORK SHALL D AND COORDINATED	BE ACCOMPLIS BE COMPLETE WITH THE CC	SHED ED IR A		_
		K.3	MINII TO S THE NEC	NUM OF 10 DAYS IN ADV. UBMIT IN WRITING THE ( ARTCC IS A 24 HOUR A ESSARY TO COORDINA	ANCE OF THE S CUT OVER REQ DAY, 7 DAY P	SHUTDOWN AND UEST WITH A MI ER WEEK OPER TRUCTION ACTI	CUTOVER. FAA REQU NIMUM OF 10 DAYS AD ATING FACILITY. IT V VITY SO AS NOT TO I	IRES CONTRA VANCE NOTIC /ILL BE NTEREERE	CTOR E.		E
			WITH	1 THE FUNCTIONS OF T	THE ARTCC.						
		K.4	NO V SYST	VELDING AND TORCH CU FEM. WELDING AND TOF	ITTING EQUIPM CH CUTTING S	IENT SHALL BE F	POWERED BY THE FAC	ILITY ELECTR	ical Thods.		
		K.5	COR	TRACTOR SHALL RECEIV	AINED BEFORE	N FROM COR BEI	FORE USING POWER S	SUPPLIES DUR	RING THE WORK.	ſ	
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ROOM OCCUPANCY							
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1051			1/15	521 SE	26		
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10510		0	1/200	252 85	1		
10510		ی م	1/300	104 SE	1		
10510			1/150	194 SF	2		
1051E			1/150	193 SF	2		
10516		B	1/150	193 SF	2		
1051G	AREA D SUPERVISOR	B	1/150	197 SF	2		
1051H		В	1/150	127 SF			
10511		В	1/150	128 SF	1		
1051J	AREA E SUPERVISOR	В	1/150	128 SF	1		
1051K	AREA F SUPERVISOR	B	1/150	128 SF	1		
1051L	STMC	В	1/150	128 SF	1		
1051M	CONF RM	A	1/15	841 SF	56		
1051N	CONF RM	A	1/15	843 SF	56		
1051O	CORRIDOR	В	1/150	316 SF	3		
1051P	CORRIDOR	В	1/150	278 SF	2		
1051Q	CORRIDOR	В	1/150	296 SF	2		
1051R	CORRIDOR	В	1/150	92 SF	1		
1052	CONTROL RM	В	1/150	901 SF	6		
MEZZ	Room			Not Placed	185		



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<u>IBC 2018</u>				
TABLE 1014.3 COMMON PATH	OF EGRESS TRAVEL W	ITH SPRINKLERS		⊢
OCCUPANCY B	MAX DISTANCE 100 FT.			
TABLE 1016.2 EXIT ACCESS OF	EGRESS TRAVEL WIT	H SPRINKLERS		
OCCUPANCY B	MAX DISTANCE 300 FT.			

LIFE SAFETY LEGEND

 1-HOUR FIRE RATED PARTITION
 2-HOUR FIRE RATED PARTITION
 EXIT PASSAGEWAY
 COMMON PATH OF TRAVEL

APPROVED DATE

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ATO - TECHNICAL OPERATIONS RECONFIGURE M1 ROOM 1st FLOOR LIFE SAFETY PLAN A R C H I T E C T S E N G I N E E R S PALMDALE SUBMITTED BY REVIEWED BY Α ART GAPASIN DARYL KITCHEN MGR. ENGINEERING - LA PROJECT ENGINEER E-Corp DESIGNED ISSUED BY DATE JCN 02.04.2021 1004394 KDL DRAWN ENGINEERING SERVICES DRAWING NO KDL ZLA-D-ARTCC- G005 BUILDING A WORLD OF DIFFERENCE ENROUTE/FSS CHECKED SJP 2



STEVEN J. PETERSON 6830295-0301 02/04/2022

TABLE 1014.3 COMMON PATH OF EGF OCCUPANCY MAX B	RESS TRAVEL WITH SPRINKLERS X DISTANCE 100 FT.
OCCUPANCY MAX	ESS TRAVEL WITH SPRINKLERS
В	300 FT.
LIFE SAFETY	Y LEGEND
	1-HOUR FIRE RATED PARTITION
	2-HOUR FIRE RATED PARTITION
	EXIT PASSAGEWAY
- · · · · · · · · · · · ·	COMMON PATH OF TRAVEL
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	IBC 2018         TABLE 1014.3         COMMON PATH OF EGRESS TRAVEL WITH SPRINKLERS         OCCUPANCY       MAX DISTANCE         B       100 FT.         TABLE 1016.2         EXIT ACCESS OF EGRESS TRAVEL WITH SPRINKLERS	Н
	G-G B LIFE SAFETY LEGEND	G
I	1-HOUR FIRE RATED PARTITION          2-HOUR FIRE RATED PARTITION          EXIT PASSAGEWAY          COMMON PATH OF TRAVEL	F
		E
	ADMINISTRATION WING CONTROL WING	D
	KEY PLAN	С
	REV     APPROVED DATE     DESCRIPTION     JCN     REDLINE DATE     APVD       REV     APPROVED DATE     DESCRIPTION     JCN     REDLINE DATE     APVD       REV     APPROVED DATE     DESCRIPTION     JCN     REDLINE DATE     APVD       ARTO - TECHNICAL OPERATIONS     WESTERN SERVICE AREA       ARTCC RECONFLIGUERE M1 ROOM	В
ITEN E NE Vashir 8440 nae.co	NECONTROCORE INTERCONT         MECONTROCORE INTERCONT         MECONTROCORE INTERCONT         MECH ATTIC LIFE SAFETY PLAN         PALMDALE       LOS ANGELES CTR       CA         MEVIEWED BY       APPROVED BY         Intercontrol       DARYL KITCHEN         MGR. ENGINEERING - LA       DARYL KITCHEN         Image: Designed by       Intercontrol       DARYL KITCHEN         Image: Designed by       Intercontrol       DARYL KITCHEN         Image: Designed by       DARYL KITCHEN         Image: Designed by       DARWIN KDL       DARYL KITCHEN         Image: Designed by       DARYL KITCHEN         Image: Designed by       DARWIN KDL       DARYL KITCHEN         Image: Designed by       DARYL KITCHEN         Image: Designed by       DARYL NITE 02.04.2021       JCN 1004394         Image: Designed by       DARWIN KDL       DRAWING NO         Image: Designed by       DARWIN KDL       DRAWING NO         Image: Designed by       DARWIN KDL       DARWIN KDL	A

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	STRUCTURAL NOTES :		
	A. GENERAL		D. STRUCTURAL STEEL
н	1. THE STRUCTURAL NOTES ARE INTENDED TO COM PART OF THE CONSTRUCTION DOCUMENTS. SPEC GOVERN OVER THE STRUCTURAL NOTES AND TY	IPLEMENT THE PROJECT SPECIFICATIONS WHICH ARE CIFIC NOTES AND DETAILS ON THE DRAWINGS SHALL PICAL DETAILS.	<ol> <li>STRUCTURAL STEEL SHALL BE FABRIC OF THE FOLLOWING:         <ul> <li>ANSI/AISC 360-10 "SPECIFICATION I "SUPPLEMENTS" AS REQUIRED BY</li> </ul> </li> </ol>
	2. THESE DRAWINGS (AND, WHERE APPLICABLE, AC ONLY CONTRACT DOCUMENTS PROVIDED BY ARV HEREIN. NOTHING IN ANY DIGITAL MODEL OR DIG TAKEN TO SUPERSEDE ANY INFORMATION SHOW	V ENGINEERS FOR THE PROJECT REPRESENTED ITAL FILE RELATED TO THIS PROJECT SHALL BE N IN THESE DRAWINGS (INCLUDING, BUT NOT LIMITED	b. AISC 303-10 "CODE OF STANDARD FOLLOWING SECTIONS: 4.4, 4.4.1, A c. AISI "SPECIFICATIONS FOR THE DE
	<ul><li>TO, DIMENSIONS, SIZES, ETC).</li><li>3. THE ARCHITECTURAL DRAWINGS ARE THE PRIME ARE SUPPLEMENTARY TO AND MUST BE USED IN</li></ul>	CONTRACT DRAWINGS. THE STRUCTURAL DRAWINGS CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS	<ul> <li>d. AISC "SPECIFICATION FOR STRUCT</li> <li>e. AWS D1.1 AND 1.3, "STRUCTURAL V CONFLICT WITH AISC).</li> </ul>
	AND OTHER CONSULTANTS DRAWINGS. ALL OMIS ELEMENTS OF THE WORKING DRAWINGS AND/OR ATTENTION OF THE ARCHITECT AND STRUCTURA INVOLVED IN CASE OF CONFLICT, FOLLOW THE M	SIONS OR CONFLICTS BETWEEN THE VARIOUS SPECIFICATIONS SHALL BE BROUGHT TO THE L ENGINEER BEFORE PROCEEDING WITH ANY WORK	f. ANSI/AISC 341-10 "SEISMIC PROVIS g. AWS D1.8, "STRUCTURAL WELDING 2. STRUCTURAL STEEL SHALL COMPLY V a. WIDE FLANGE SHAPES AND WT SH
	ARCHITECT AT NO ADDITIONAL COST TO THE OWN 4. SEE SPECIFICATIONS FOR REQUIRED SUBMITTAL AS INDICATED IN SPECIFICATIONS. REVIEW OF SU	NER. S. SUBMITTALS SHALL BE MADE IN A TIMELY MANNER IBMITTALS BY ARW ENGINEERS IS FOR GENERAL	<ul> <li>b. OTHER SHAPES AND PLATES - AST</li> <li>c. HOLLOW STRUCTURAL SECTIONS ROUND SHAPES (FY = 50 KSI FOR S</li> </ul>
C	COMPLIANCE ONLY AND IS NOT INTENDED AS APP VERIFYING ALL SIZES, DIMENSIONS, AND ELEVATI DOCUMENTS. PREPARATION OF SHOP DRAWINGS	PROVAL. CONTRACTOR IS RESPONSIBLE FOR ONS ON SUBMITTALS AS RELATED TO DESIGN S FOR STRUCTURAL ELEMENTS WILL REQUIRE	SHAPES) d. STAINLESS STEEL SHAPES, PLATE e. DEFORMED BAR ANCHORS (DBA) - f. HEADED STUD ANCHORS (HSA) - A
9	CONSULTANTS DRAWINGS. 5. THE CONTRACTOR SHALL VERIFY ALL CONDITION CONDITIONS DIFFER FROM THOSE SHOWN ON CC	IS AND DIMENSIONS AT THE SITE. IF ACTUAL DNTRACT DOCUMENTS, CONTRACTOR SHALL NOTIFY	WITH AWS D1.1 FOR TYPE "B". USE g. THREADED ROD - ASTM A-449. h. NON-SHRINK GROUT - ASTM C110.
	ARCHITECT PRIOR TO FABRICATION OR CONSTRU- 6. THE CONTRACTOR SHALL COORDINATE AND VER EQUIPMENT OR OTHER EQUIPMENT BEFORE FAB	JCTION OF ANY AFFECTED ELEMENTS. IFY ALL LOCATIONS AND SIZES OF MECHANICAL RICATING AND ERECTING STRUCTURAL ELEMENTS.	WITH A 28-DAY COMPRESSIVE STR 3. CONNECTIONS SHALL COMPLY WITH 1 CHANGE IS GIVEN BY THE STRUCTURA 4. ALL SHOP FARPICATIONS SHALL BE PR
	REPORTED TO THE ARCHITECT. 7. THE CONTRACTOR SHALL SUBMIT A WRITTEN REC ENGINEER APPROVAL BEFORE PROCEEDING WIT	QUEST TO THE ARCHITECT FOR ARCHITECT AND/OR H ANY CHANGES, MODIFICATIONS, OR	WITH SECTIONS 1702 AND 1704 OF THE IN ACCORDANCE WITH SECTION 1704. 5. WELDING
	SUBSTITUTIONS. 8. OBSERVATION VISITS TO THE SITE BY ARW ENGIN CONSTRUED AS INSPECTION NOR APPROVAL OF	NEERS FIELD REPRESENTATIVES SHALL NEITHER BE CONSTRUCTION.	<ul> <li>a. ALL WELDING AND CUTTING SHALL WITH ANSI/AWS D1.1 (LATEST EDIT</li> <li>b. USE E-70XX ELECTRODES UNLESS DECKS</li> </ul>
F	WITHIN THE LIMITS OF DESIGN LOADS AS NOTED 10. TYPICAL OR SIMILAR DETAILS AND SECTIONS SHA SHOWN. TYPICAL OR SIMILAR DETAILS REFER TO	IN THESE DOCUMENTS. ALL APPLY WHERE SPECIFIC DETAILS ARE NOT THE CONDITION ADDRESSED AND ARE NOT	c. ALL INTERSECTING STEEL SHAPES TOGETHER WITH A FILLET WELD A ARE NOT SHOWN, USE THE FOLLO
1	NECESSARILY DETAILS LABELED "TYPICAL" OR "SI 11. DRAWINGS AND DETAILS HAVE BEEN PREPARED INFORMATION PROVIDED IN SCALED FORM; HOW!	IMILAR" IN THE PLANS AND DOCUMENTS. WITH THE INTENT TO VISUALLY REPRESENT EVER CONTRACTOR/SUPPLIERS SHOULD NOT SCALE	<ol> <li>WHERE THE THICKNESS OF TH SIZE SHALL BE 1/16" LESS THAL</li> <li>WHERE ANY OF THE CONNECT SAME AS THE THICKNESS OF THE CONNECT</li> </ol>
	12. THE CONTRACTOR SHALL PROVIDE ADEQUATE TE STRUCTURAL ELEMENTS UNTIL THE ENTIRE STRU SHORING AND BRACING IS BY OTHERS AT NO ADI	EMPORARY SHORING AND BRACING FOR ALL JCTURAL SYSTEM IS COMPLETED. DESIGN OF ALL DITIONAL COST TO THE OWNER.	d. WELDING OF HSA'S (HEADED STUE CONFORM TO THE MANUFACTURE NOT BE SUBSTITUTED FOR HSA'S
	13. ENGINEER SHALL NOT BE RESPONSIBLE FOR ACT AS CONSTRUCTION SITE SAFETY, MEANS, METHO SHALL NOT BE RESPONSIBLE FOR FABRICATION, DESCRIPTED BY OSUA OF OTHER RECUMATORY	IVITIES UNDER CONTROL OF THE CONTRACTOR SUCH DS AND SEQUENCING OF CONSTRUCTION. ENGINEER ERECTION AND CONSTRUCTION REQUIREMENTS AS	e. WHEREVER POSSIBLE, WELDS SH WHICH MAY NEED ADJUSTMENT A WHERE QUESTIONS OR DISCREPA
	DOCUMENTS. 14. NOTICE OF COPYRIGHT: THESE STRUCTURAL DR/ ENGINEERS, ALL RIGHTS RESERVED. THESE DOC	AGENCIES REGARDLESS OF INDICATIONS IN THESE AWINGS ARE HEREBY COPYRIGHTED BY ARW UMENTS DEFINE A STRUCTURE AND ARE	f. SPECIAL PROVISIONS FOR SFRS ( 1. ALL WELDS DESIGNATED AS D MEETING THE REQUIREMENTS
E	INSTRUMENTS OF SERVICE, FOR ONE USE ONLY. DRAWINGS IS ONLY ALLOWED AS REQUIRED FOR INFORMATION TO PARTIES INVOLVED IN THE CON	REPRODUCTION AND DISTRIBUTION OF THESE REGULATORY AGENCIES AND FOR CONVEYANCE OF STRUCTION OF THIS PROJECT. THESE DOCUMENTS	<ol> <li>ALL OTHER WELDS THAT ARE MEETING THE REQUIREMENTS</li> <li>BUTT WELDS IN MEMBERS WIT</li> </ol>
L	PREPARATION OF SHOP DRAWINGS OR OTHER SI 15. WHERE THE WORD "SHALL" OCCURS IN THESE DF IT IS CONSIDERED A MANDATORY OBLIGATION AN	T OR WHOLE BY ANY PARTY FOR USE IN UBMITTALS. RAWINGS AND ANY ACCOMPANYING SPECIFICATIONS, ID SYNONYMOUS WITH THE PHRASE "HAS DUTY TO".	2-1/2 INCHES. THE TRANSITION TAPERING THE WIDER PART, S 6. BOLTING
	B. STATEMENT OF SPECIAL INSPECTIONS AND SPECIAL		<ul> <li>a. UNLESS NOTED OTHERWISE, ALL S</li> <li>STRENGTH BOLTS CONFORMING T</li> <li>b. UNLESS NOTED OTHERWISE, ALL I</li> <li>CONNECTIONS WITH THEEADS INCOMPACTIONS</li> </ul>
	<ol> <li>THE DESIGNATED SEISMIC/WIND SYSTEMS AND S SUBJECT TO SPECIAL INSPECTIONS IN ACCORDAN IDENTIFIED IN THE SPECIAL INSPECTION SCHEDU</li> <li>SPECIAL INSPECTIONS AND TESTING ARE TO BE F</li> </ol>	EISMIC/WIND-FORCE-RESISTING SYSTEMS THAT ARE NCE WITH CBC SECTION 1705.11 AND 1705.12 ARE LE ON SHEET S002. PROVIDED AS REQUIRED BY CBC SECTIONS 1704	CONDITION, WITH ALL PLIES OF TH c. WHERE OVERSIZED OR SLOTTED I 5/16" THICK COMMON PLATE WASH
	THROUGH 1705 AND OTHER APPLICABLE SECTION TESTING AND SPECIAL INSPECTIONS SHALL BE AS SPECIFICATIONS, AND ACCORDANCE WITH CBC S	NS OF THE CBC. THE TYPE AND FREQUENCY OF S NOTED IN THE SPECIAL INSPECTION SCHEDULE, JOB ECTION 110 AND CHAPTER 17. CONTRACTOR SHALL	HOLE. d. BOLTS SHALL BE CENTERED IN SL e. WHERE A STEEL BEAM TO BEAM C FRAMED CONNECTION SIZED FOR
D	<ol> <li>ALL TESTING AND SPECIAL INSPECTION SHALL BE INSPECTION AGENCY IN ACCORDANCE WITH CBC REPORTS OF FINDINGS OR DISCREPANCIES SHALL</li> </ol>	PROVIDED BY A QUALIFIED INDEPENDENT SPECIAL 1704 AND AS OUTLINED IN THE JOB SPECIFICATIONS. L BE NOTED AND FORWARDED TO THE CONTRACTOR,	AND STEEL SPECIFIED. 7. METAL DECKING a. UNLESS NOTED OTHERWISE, MET.
	ARCHITECT, ENGINEERS, AND BUILDING OFFICIAL 4. STRUCTURAL OBSERVATION VISITS SHALL BE PER ENGINEERS IN ACCORDANCE WITH THE CONTRAC CRITICAL BUILDING ELEMENTS (LE FOOTINGS BE	IN A TIMELY MANNER. RFORMED BY A REPRESENTATIVE FROM ARW CT AS NEEDED TO OBSERVE THE CONSTRUCTION OF RACED FRAMES MOMENT FRAMES DRAG STRUTS AND	b. ALL DECK SHALL BE CONTINUOUS SUPPLIER/CONTRACTOR SHALL PF EQUIVALENT PERFORMANCE OF T
	THEIR CONNECTIONS, COLLECTORS, AND ROOF A OBSERVATION REPORTS FOR EACH VISIT SHALL E DISTRIBUTION TO THE CONTRACTOR AND BUILDI	AND FLOOR DIAPHRAGMS). STRUCTURAL BE SENT DIRECTLY TO THE ARCHITECT FOR NG OFFICIAL. STRUCTURAL OBSERVATION VISITS	<ul> <li>c. SEE TYPICAL DETAILS FOR SUPPO</li> <li>d. PAINTED STEEL DECK SHALL CONI CONFORM TO A653 GRADE G60.</li> </ul>
	5. IN ACCORDANCE WITH CBC 1704.4, THE CONTRAC STATEMENT OF RESPONSIBILITY TO THE BUILDIN	CTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S G OFFICIAL AND OWNER.	PROVIDED THAT THE TOTAL WEIG ATTACHMENT TO THE DECKING IS LEAST 6 FEET APART IN ANY DIREC
	C. BASIS OF DESIGN		8. PROVIDE FULL DEPTH WEB STIFFENER (EXCEPT SECONDARY FRAMING) POIN NOTED OTHERWISE AND SHALL BE WI
С	<ol> <li>GOVERNING BUILDING CODE : CALIFORNIA BU RISK CATEGORY : IV</li> <li>SUSPENDED FLOOR LOADS         <ul> <li>a. LIVE LOAD = 20 PSF</li> </ul> </li> </ol>	NEDING CODE (CBC) 2019	<pre>&lt; 8 1/4" 1/4" 8 1/4" &lt; BF &lt; 12 1/2" 3/8" 12 1/2" &lt; BF &lt; 18" 1/2"</pre>
	<ul> <li>b. DEAD LOAD = 12 PSF</li> <li>3. SEISMIC DESIGN :</li> <li>a. SEISMIC IMPORTANCE FACTOR, IE: 1.5</li> <li>b. SITE CLASS : D. (DEEALUIT)</li> </ul>		<ol> <li>9. FABRICATORS AND SUPPLIERS SHALL APPLIED INSULATION, FIREPROOFING,</li> <li>10. WHEN DETERMINING THE FIRE RESIST MEMBERS ARE CONSIDERED UN-REST</li> </ol>
	<ul> <li>c. MAPPED SPECTRAL RESPONSE ACCELERATION</li> <li>d. SPECTRAL RESPONSE COEFFICIENTS : S<sub>DS</sub> =</li> <li>e. SEISMIC DESIGN CATEGORY : D</li> </ul>	DNS: S <sub>S</sub> = 1.835,S <sub>1</sub> = 0.764 1.468,S <sub>D1</sub> = 0.866	CONSIDERED RESTRAINED. 11. UNLESS NOTED OTHERWISE, ALL HOR NATURAL CROWN UP.
	f. BASIC SEISMIC-FORCE-RESISTING SYSTEM : L g. DESIGN BASE SHEAR : $V_{N-S} = 0.339 \text{ *W}$ , $V_{E-W} =$ h. SEISMIC RESPONSE COEFFICIENT, C <sub>S</sub> : 0.339	LIGHT-FRAME COLD-FORMED STEEL SHEAR WALLS = 0.339 *W	12. UNLESS OTHERWISE SHOWN OR DET/ STRUTS, ETC. SHALL BE CONTINUOUS SHALL NOT BE PERMITTED WITHOUT V 13. EXISTING STRUCTURAL STEEL HAS LE
	j. ANALYSIS PROCEDURE : EQUIVALENT LATER/	AL FORCE	CONTRACTOR MAY BE REQUIRED WHI BEAMS AND GRATING.
В			
	Structural	Sheet Index	
	SHEET NUMBER S001 STRUCTURAL NOTES	SHEET NAME	
	S002SCHEDULESS003SCHEDULESS101FOOTING AND FOUNDATION PLAN		
	S102     MEZZANINE FRAMING PLAN       S103     FRAMING PLANS       S201     DETAILS		
А	S201     DETAILS       S202     DETAILS       S203     DETAILS		
	S204 DETAILS S205 DETAILS		

S206 DETAILS

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- ICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION
- N FOR STRUCTURAL STEEL BUILDINGS", WITH "COMMENTARY" AND BY BUILDING CODE. D PRACTICE FOR STEEL BUILDINGS AND BRIDGES" EXCLUDING THE
- I, AND 4.4.2. DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS". CTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
- L WELDING CODE" (EXCEPT SPECIFIC ITEMS DO NOT APPLY IF THEY
- ISIONS FOR STRUCTURAL STEEL BUILDINGS". NG CODE - SEISMIC".
- Y WITH THE FOLLOWING:
- SHAPES ASTM A992 STM A-36 (UNO)
- IS (HSS) ÁSTM A-500, GRADE C FOR SQUARE, RECTANGULAR AND R SQUARE AND RECTANGULAR SHAPES AND 46 KSI FOR ROUND
- TES, AND FASTENERS ASTM 304
- A) ASTM A-496, WELDED IN ACCORDANCE WITH AWS D1.1 - ASTM A-108, GRADE 1015 STEEL AND WELDED IN ACCORDANCE SE 3/4" DIAMETER STUDS, UNLESS NOTED OTHERWISE.
- 10. NON-SHRINK GROUT SHALL BE PRE-PACKAGED, NON-METALLIC,
- TRENGTH OF 6,000 PSI. H THE STRUCTURAL DRAWINGS UNLESS WRITTEN APPROVAL TO IRAL ENGINEER.
- PERFORMED BY AN APPROVED FABRICATOR IN ACCORDANCE THE CBC OR WITH SHOP INSPECTION BY AN INDEPENDENT AGENCY 04.2.5 OF THE CBC.
- ALL BE PERFORMED BY AWS QUALIFIED WELDERS IN ACCORDANCE DITION).
- SS NOTED OTHERWISE. E-60XX MAY BE USED FOR WELDING STEEL ES WHICH ARE NOT CONNECTED WITH BOLTS SHALL BE WELDED
- ) ALL AROUND UNLESS NOTED OTHERWISE. WHERE WELD SIZES LOWING: THE CONNECTED PARTS IS EQUAL TO OR THICKER THAN 1/4", WELD
- IAN THE THICKNESS OF THE THINNEST PART. CTED PARTS IS LESS THAN 1/4" THICK, WELD SIZE SHALL BE THE
- F THE THINNEST PART. 'UD ANCHORS) AND DBA'S (DEFORMED BAR ANCHORS) SHALL RER'S SPECIFICATIONS AND AWS D1.1. REINFORCING BARS SHALL
- S OR DBA'S. SHALL BE SHOP WELDS. SPECIAL CONSIDERATIONS, SUCH AS ITEMS
- AT THE SITE, REQUIRE THAT SOME WELDS BE FIELD WELDS. PANCIES OCCUR THE CONTRACTOR SHALL COORDINATE THE RICATOR AND THE STEEL ERECTOR.
- (SEISMIC FORCE RESISTING SYSTEM): DEMAND CRITICAL WELDS SHALL BE MADE WITH FILLER METALS TS SPECIFIED IN CLAUSES 6.1, 6.2, AND 6.3 OF AWS D1.8. E PART OF THE SFRS SHALL BE MADE WITH FILLER METALS
- TS SPECIFIED IN CLAUSE 6.1 OF AWS D1.8. /ITH DIFFERENT THICKNESSES, SUCH AS COLUMN SPLICES, SHALL SUCH A MANNER THAT THE TRANSITION DOES NOT EXCEED 1 IN ON SHALL BE ACCOMPLISHED BY CHAMFERING THE THICKER PART,
- , SLOPING THE WELD METAL OR BY A COMBINATION OF THESE L STRUCTURAL STEEL TO STEEL CONNECTIONS SHALL USE HIGH
- G TO ASTM A-325. L BOLTING IS CLASSIFIED AS NON-SLIP CRITICAL BEARING TYPE
- NCLUDED IN SHEAR PLANE. TIGHTEN BOLTS TO A SNUG TIGHT THE JOINT IN FIRM CONTACT. D HOLES OCCUR IN THE OUTER PLY, AN ASTM F436 WASHER OR
- SHER SHALL BE USED AS REQUIRED TO COMPLETELY COVER THE SLOTTED HOLES, UNLESS NOTED OTHERWISE.
- I CONNECTION IS NOT SHOWN, PROVIDE AN AISC STANDARD OR 1/2 OF THE TOTAL LOAD CAPACITY OF THE BEAM FOR THE SPAN
- ETAL ROOF DECK SHALL BE 20 GAUGE TYPE B GALVANIZED STEEL JLE FOR ATTACHMENTS.
- JS OVER 3-SPANS. WHERE NOT POSSIBLE, THE DECK PROVIDE HEAVIER GAUGE DECK AS NEEDED TO PROVIDE THE THE SPECIFIED DECK WITH 3-SPAN CONTINUITY.
- PORT OF DECK AT OPENINGS. DNFORM TO ASTM A1008 AND GALVANIZED STEEL DECK SHALL
- JPPORTED BY HANGING DIRECTLY FROM METAL DECKING, IGHT PER CONNECTION IS LESS THAN 50 LBS AND THAT THE IS DISTRIBUTED ACROSS AT LEAST TWO RIBS AND SPACED AT RECTION.
- NER PLATES AT EACH SIDE OF STEEL BEAMS AT ALL BEARING DINTS. STIFFENER PLATES SHALL BE THICKNESS SHOWN UNLESS WELDED BOTH SIDES WITH FILLET WELDS ALL AROUND. KNESS WELD THICKNESS
  - 3/16" 1/4"
  - 5/16"
- LL COORDINATE PAINT/FINISHES WITH REQUIREMENTS FOR DIRECT G, ETC. AS NOTED IN THE PROJECT SPECIFICATIONS. STANCE OF ASSEMBLIES, USE THE FOLLOWING: STEEL ROOF STRAINED AND STEEL FLOOR FRAMING MEMBERS ARE
- ORIZONTAL FRAMING MEMBERS SHALL BE ERECTED WITH THE
- ETAILED IN THE PLANS, ALL STEEL COLUMNS, BEAMS, BRACES, US BETWEEN CONNECTIONS OR SUPPORTS. SPLICES IN MEMBERS T WRITTEN APPROVAL BY THE ENGINEER OF RECORD. LEAD PAINT COATING. LEAD ABATEMENT BY LICENSED /HEN CONNECTING TO OR DISTURBING THE PAINT ON EXISTING

- G. ADHESIVE/MECHANICAL ANCHORS
- 1. WITHOUT WRITTEN APPROVAL OF THE ENGINEER, CONTRACTOR SHALL NOT SUBSTITUTE POST-
- INSTALLED ANCHORS WHERE CAST-IN-PLACE ANCHORS ARE SPECIFIED IN THE DRAWINGS.
  2. WHERE STRUCTURAL DETAILS SPECIFY SPECIFIC BRANDS AND/OR TYPES OF ADHESIVES OR ANCHORS, SUBSTITUTIONS OF OTHER BRANDS AND/OR TYPES IS NOT ALLOWED, WITHOUT WRITTEN
- APPROVAL OF THE ENGINEER.
  3. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. SUBSTITUTION REQUESTS SHALL INCLUDE AN ICC ESR OR IAPMO REPORT AND SUPPORTING CALCULATIONS INDICATING COMPLIANCE WITH DESIGN
- INTENT.
  ALL ADHESIVE/MECHANICAL ANCHORS SHALL BE INSTALLED, INCLUDING HOLE DRILLING AND PREPARATION, IN ACCORDANCE WITH AN APPROVED INDEPENDENT EVALUATION REPORT (ICC-ES, IAPMO, OR APPROVED EQUAL), AS INDICATED BELOW, AND IN ACCORDANCE WITH ALL MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII).
- ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION. ADHESIVE ANCHORS SHALL NOT BE FULLY LOADED UNTIL CONCRETE HAS REACHED DESIGN STRENGTH.
- 6. UNLESS APPROVED BY THE ENGINEER OF RECORD, CONCRETE AND DRILLED ANCHOR HOLES SHALL BE DRY AND FREE OF WATER FOR 24 HOURS PRIOR TO ADHESIVE INSTALLATION. CONTACT THE ENGINEER OF RECORD FOR GUIDANCE IF THE CONTRACTOR CHOOSES TO INSTALL IN WET OR DAMP HOLES.
- CONCRETE TEMPERATURE AT THE TIME OF INSTALLATION SHALL BE MONITORED BY THE CONTRACTOR. CONTRACTOR SHALL COMPLY WITH ALL MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) RELATIVE TO SUBSTRATE TEMPERATURE.
- INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT SUSTAINED TENSION LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT IN ACCORDANCE WITH ACI 318-11 D.9.2.2. PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. CONTINUOUS SPECIAL INSPECTION SHALL BE PROVIDED FOR THESE ANCHORS.
- UNLESS NOTED OTHERWISE, ALL ADHESIVE ANCHORS INTO CONCRETE SHALL BE:
   a. HILTI HIT-RE 500V3 (ESR-3814), OR HILTI HIT-HY 200-A (ESR-3187).
   SIMBON SET 2C (ESR 4057) OR AT YE (ER 0262)
- b. SIMPSON SET-3G (ESR-4057), OR AT-XP (ER-0263).
  c. DEWALT PURE 110+ (ESR-3298), OR AC200+ GOLD (ESR-4027-COLD WEATHER).
- UNLESS NOTED OTHER WISE, ALL MECHANICAL ANCHORS INTO CONCRETE SHALL BE:
   a. HILTI KWIK BOLT TZ (ESR-1917).
- b. SIMPSON STRONG-BOLT 2 (ESR-3037).
  11. UNLESS NOTED OTHERWISE, ALL SCREW ANCHORS INTO CONCRETE SHALL BE:
  a. SIMPSON TITEN HD (ESR-2713).
- b. DEWALT SCREWBOLT+ (ESR-2526).
- c. HILTI KWIK HUS-EZ (ESR-3027).
   12. THE TESTING LABORATORY WILL PERFORM VISUAL INSPECTION OF ANCHORS AND DOWELS AS SPECIFIED IN THE SPECIAL INSPECTION SCHEDULE AND THE APPROVED INDEPENDENT EVALUATION REPORT. TENSION TESTING CAN BE REQUIRED AT THE DIRECTION OF THE STRUCTURAL ENGINEER OF RECORD OR THE SPECIAL INSPECTOR.
- 13. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON THAT HOLE AND SHIFT THE ANCHOR LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM SPACE OF (2) ANCHOR HOLE DIAMETERS OR 1 INCH, WHICH EVER IS LARGER, OF SOUND CONCRETE/MASONRY BETWEEN THE ANCHOR AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. AT CONTRACTORS OPTION, LOCATE EXISTING REINFORCEMENT PRIOR TO DRILLING/CORING. IF THE ANCHOR OR DOWEL CANNOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW LOCATION.
- 14. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.





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I. CO	LIGHT (	MED ST	<b>EEL</b> STEEL FRAN	AING							
	a. STE	EEL FRA	MING SIZE [ ED BY THE	DESIGNATOR STEEL STUD	S USED IN 1 MANUFACT	THE DRAWING	SS FOLLOW THE ( OCIATION (SSMA)	CONVENTIO	N DRTH		н
	b. ALL	CEED AL	L SSMA ANI BEARING ST	D NASFA STA UDS (AND/OF	NDARDS AN NDARDS AN NOIST FRA	ND DESIGN PE	ROPERTIES. ERS ALONG WITH		ERS,		
	BRI AB( A1(	IDGING, OVE ELE )11/A101	AND END-TI MENTS SHA 1M-04. ALL (	RACKS SHALI ALL BE FORM COMPONENT	L BE OF THE ED FROM S S SHALL BE	E DESIGNATIO TEEL MEETIN E GALVANIZED	ON SHOWN ON TH G REQUIREMENT D. ALL COMPONEN	IE PLANS. A S OF ASTM NTS SHALL F	LL OF THE		
	FOI CO STI	LLOWIN MPONE JDS. JOI	G YIELD STF NT STS & TRAC	RESSES : BASE SKS 33 &	E METAL TH 43 MILL	ICKNESS	YIELD STRESS 33.000 PSI				
	ENI c EOI		JRES & BRI	54, 68 DGING 33, 43	8 & 97 MILL 3, 54 & 68 M	ILL ATIONS FOR T	50,000 PSI 33,000 PSI THE USE OF THES		TS		
	d. UN D1.	LESS NO	TED OTHER	RWISE, ALL W URAL DETAIL	ELDED COL S. ALL WEL	NNECTIONS S DS SHALL BE	COMPLETED USI	DRDANCE W NG E60XX	ITH AWS		
2.	SHEAT	HING SH	ALL BE APA ATING AS N	RATED SHE	ATHING, EX V UNLESS N	POSURE I, EX NOTED OTHER	TERIOR GLUE, FI RWISE :	RE RETARD	ANT, AND		0
	UO WA RO	CATION LLS : OFS :	1 HI 15/3 19/3	CKNESS 32" 32"	PANEL IN 24/0 32/16	NDEX					G
	a. IND TH/ b. UN	IVIDUAL AN 24" IN LESS NC	PIECES OF I EITHER DIF DTED OTHEF	SHEATHING RECTION ANE RWISE, ALL W	AT ROOF, F D SHALL SP/ /ALL SHEAT	LOOR, AND S AN A MINIMUN HING AT SHE	HEAR WALLS SH. 1 OF TWO FRAMII AR WALLS SHALL	ALL NOT BE NG SPACES . HAVE FLAT	SMALLER , UNO. ' STUD		
3	BLC c. FOI	DCKING R MAXIM	AT ALL PAN IUM OPENIN FASTENER	EL EDGES. SI IGS IN PLYWO	EE DETAIL 1 DOD SEE DE	1/S202. ETAIL 1/S206.					
	a. UN SHI	LESS NC EARWAL	TED OTHER	RWISE, #8 TE NG TO STUDS	K SCREWS S AND BLOC	SHALL BE US KING AS FOL	ED TO FASTEN AI LOWS :	LL PLYWOO	D		
	2. 3.	PANEL THE HE	FIELD SCRE	WS "FS": 12"( SCREWS SHA	O.C. AT INTE ALL BE SCRI	ERIOR SUPPC EWED FLUSH	ORTS IN FIELD OF	PANEL. ACE OF THE			
	b. ALL MIN	SHEAT SCREW	S SHALL COROLLES	ONFORM TO	CFSEI TECH	I NOTE (F701-	12) AND SHALL H	AVE THE FC	LLOWING		
	SCI NO NO	REW SIZ . 6 . 8	E SHA 0.13 0.16	ANK DIAMETE 38" 54"	R HEAI 0.272 0.272	D DIAMETER					F
	NO NO	. 10 . 12 LESS NO	0.19 0.21 0.750 OTHE	90" 16" RWISE ALLE	0.340 0.340 RAMING AN	)" )" CHORS CLIP	S HOLD DOWNS	STRAPS F			
	d. UN	OVIDED	BY THE STE	EL NETWORI RWISE, ALL E	K OR APPROX XTERIOR W	OVED EQUAL	TRACKS TO BE A		TO THE		
4.	EM UNLES	BEDMEN S NOTEI	T AT 12"O.C O OTHERWIS	SE, ALL STEE	L STUD WA	LLS SHALL BE	E CONTINUOUS B	ETWEEN TO	P AND		
5.	BOTTO UNLES CONTIN	M TRAC S NOTEI NUOUS V	KS WITH NC D OTHERWIS VITH NO SP	) SPLICES. SE, ALL STEE LICES BETWE	L STUD JOI	STS AND BOX	HEADER COMPC	NENTS SHA	ILL BE		
6.	ALL TO LONG T	P AND B FRACKS	OTTOM TRA	ACKS OF STU VAILABLE, TR TRACKS MAY	D WALLS AI ACKS MAY	ND BOX HEAD BE WELDED <sup>-</sup> D PER DETAIL	DERS SHALL BE C FOGETHER PER N 2/S201	ONTINUOUS	3. WHERE THESE		
7.	SEE TY	PICAL D	ETAIL FOR I	REINFORCEM STS AND BOX	IENT OF KN	OCK OUT HO	LES AT BEARING		LOAD		Е
0.	362T12	5-54 TRA	CKS. ATTA	CH TRACK TO	) STUDS WI	TH (1) #8 TEK	SCREW EACH SI	DE OF STUD			
<b>J. EX</b> 1.	ARW E		RS EXPRES	SLY DISCLAIN	IS RESPON	SIBILITY FOR	ANY PORTION OF	THE EXIST	ING		
2.	BUILDII DRAWI CONFIC	NG NOT NGS ANI GURATIC	SPECIFICAL D DETAILS H )NS OF STR	LY ADDRESS IAVE BEEN P UCTURAL ELI	ED IN THES REPARED T EMENTS. H	E DRAWINGS O REFLECT T OWEVER, TH	3. THE EXISTING CO E CONTRACTOR	NDITIONS AI	ND ELY		
3.	RESPO DISCRE THE CO	NSIBLE EPANCIE DNTRAC	FOR VERIFY S FOUND P TOR IS RES	/ING ALL EXIS RIOR TO FAB PONSIBLE FC	STING CONE RICATING C R MAKING 3	OITIONS AND A R INSTALLIN SURE THAT T	ALERTING THE EN G STRUCTURAL E HE BUILDING AND	NGINEER OF LEMENTS. DELEMENTS	S WITHIN		
	THE BU OWNER SUPPO	JILDING R, THE C RT OF S	REMAIN STA ONTRACTO TRUCTURA	ABLE UNTIL C R SHALL BE I L MEMBERS I	ONSTRUCT RESPONSIB	ION IS COMP LE FOR PROV	LETE. AT NO ADD /IDING SHORING SURATION HAS BE	OITIONAL CO OR OTHER <sup>-</sup> EEN COMPLI	ST TO THE TEMPORARY TED.		
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				REC		ARICC SURE M	11 ROOM				
				S	TRUCT	URAL N	IOTES				
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hae.com	┨──		ART GAPA PROJECT				DARYL KITCHEI MGR. ENGINEE	N RING - LA			
Corp			DESIGNED DRAWN	A. Bown	ISSU ENGINEERIM	ED BY	DATE 08.20.202 DRAWING NO	JCN	10	04394 REV	
INCE			CHECKED	Z. Thorner S. Ericksen	ENROL	JTE/FSS	ZLA-D-ART	CC- S0	01		



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			SPECIAL INSPEC
		ES	TABLISHED PER 2019 CBC
ITEM	CONTINUOUS <sup>3</sup>	PERIODIC <sup>3</sup>	REFERENCE
PRE-FAB CONSTRUCTION (CBC 1704.2)			REFERENCE NOTES P1 & P2
COLD FORMED FRAMING (CBC 1705.11.2 & 1705.12.32)			
LIGHT GAUGE METAL FRAMING WELDING		•	
SHEAR WALL & DIAPHRAGM ATTACHMENTS		•	
DRAG STRUT & BRACE INSTALLATION		•	
HOLDOWN INSTALLATION		•	

THE ITEMS MARKED WITH A "O" IN THE SPECIAL INSPECTION SCHEDULE SHALL BE INSPECTED IN ACCORDANCE WITH CBC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO THE MATERIAL SAMPLING AND TESTING SECTION, THE PROJECT SPECIFICATIONS, AND THE SPECIFIC GENERAL NOTES SECTIONS. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ARCHITECT, ENGINEER, CONTRACTOR, AND BUILDING OFFICIAL. ANY ITEMS WHICH FAIL TO COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL, ARCHITECT, AND ENGINEER PRIOR TO COMPLETION OF THAT PHASE OF WORK. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS. ANY CONSTRUCTION OR MATERIAL THAT HAS FAILED INSPECTION SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT. CONTINUOUS SPECIAL INSPECTION MEANS THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION MEANS THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK. (CBC SECTION 202)

	SHE	AR PLATE INFORMATIC	DN	BOLTS W/ STANDARD WASHERS OVER SLOTS									
BEAM DEPTH	PL. DIMENSIONS W/ SHORT-	Lev	Leh			SLOTS		SLOTS		SLOTS		SLOTS	
	SLOTTED HOLES			No.	SIZE								
W8	PL. 1/4" x 4"	1 1/2"	2"	2	3/4" Ø	3/16"							
W14, W16	PL. 5/16" x 4"	1 1/2"	2"	3	3/4" Ø	1/4"							



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## **SPECIAL INSPECTION SCHEDULE** <sup>1, 2</sup>

## SECTION 110 AND CHAPTER 17

2

COMMENTS SPECIAL INSPECTION IS NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND P1. APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION, PROVIDED THE FABRICATOR COMPLIES WITH CBC. INSPECTION FOR PREFABRICATED CONSTRUCTION SHALL BE THE SAME AS IF THE MATERIAL USED IN THE CONSTRUCTION TOOK P2. PLACE ON SITE. SPECIAL INSPECTION WILL NOT BE REQUIRED DURING PREFABRICATION IF THE APPROVED AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHES EVIDENCE OF COMPLIANCE. (SEE NOTE 2). CF1. SPECIAL INSPECTION IS NOT REQUIRED FOR COLD-FORMED STEEL LIGHT-FRAME SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLDOWNS WHERE SHEATHING IS WOOD STRUCTURAL PANEL OR STEEL SHEETS ON ONLY ONE SIDE OF THE SHEAR WALL, SHEAR PANEL OR DIAPHRAGM ASSEMBLY AND THE FASTENER SPACING OF THE SHEATHING IS MORE THAN 4"o.c.

## **GENERAL SPECIAL INSPECTION NOTES :**

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INSPECTION TASKS PRIOR TO WELDING (TABLE N5.4-1)		JK TROL PERIODIC	SPECIAL IN QUALITY AS	SURANCE	NOT	S
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	•			•	······································	······
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	•		•		1. PERIODIC - OBSERVE THESE ITEM	S ON A RANDOM B
MATERIAL IDENTIFICATION (TYPE / GRADE)	-	٠		•	OPERATIONS NEED NOT BE DELAY INSPECTIONS.	ED PENDING THES
WELDER IDENTIFICATION SYSTEM <sup>1</sup>		٠		٠	2. CONTINUOUS - PERFORM THESE T OR MEMBER.	ASKS FOR EACH V
* JOINT PREPARATION					3. QUALITY CONTROL (QC) SHALL BE AND ERECTOR.	
* DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)		•		•	4. QUALITY ASSURANCE (QA) SHALL REQUIRED BY THE AUTHORITY HA	VING JURISDICTIO
* CLEANLINESS (CONDITION OF STEEL SURFACES) * TACKING (TACK WELD QUALITY AND LOCATION)					ENGINEER OF RECORD (EOR). NO SHALL BE PERFORMED BY THE AC	NDESTRUCTIVE TE
* BACKING TYPE AND FIT (IF APPLICABLE)					FOR QUALITY ASSURANCE, EXCEP ACCORDANCE WITH SECTION N6.	T AS PERMITTED I
FIT-UP OF CJP GROOVE WELDS OFHSS T-, Y-, AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY)					5. QC AND QA INSPECTORS SHALL B WITH AISC 360-16 CHAPTER N4.	E QUALIFIED IN AC
* JOINT PREPARATIONS				-	6. NONDESTRUCTIVE TESTING PERS ACCORDANCE WITH AISC 360-16 C	UNNEL SHALL BE ( HAPTER N4.3.
* DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	•			•	WITH AISC 360-16 CHAPTER N5.5a	AND b. ATIONS AND VISUA
* CLEANLINESS (CONDITION OF STEEL SURFACES) * TACKING (TACK WELD QUALITY AND LOCATION)					OF IN-PROCESS AND COMPLETED METHOD TO CONFIRM THAT THE N	WELDS SHALL BE
CONFIGURATION AND FINISH OF ACCESS HOLES		•		•	WORKMANSHIP ARE IN CONFORM DOCUMENTS. FOR STRUCTURAL	ANCE WITH THE CO STEEL, ALL PROVIS
* DIMENSIONS (ALIGNMENT, GAPS AT ROOT)	·····				D1.1 / D1.1M STRUCTURAL WELDIN STATICALLY LOADED STRUCTURE	G CODE - STEEL F S SHALL APPLY.
* CLEANLINESS (CONDITION OF STEEL SURFACES)		٠			9. I HERMALLY CUT SURFACES OF AU BY QA USING MT OR PT, WHEN TH	CESS HOLES SHA
* TACKING (TACK WELD QUALITY AND LOCATION)		-	· · · ·	· · · · · · · · · · · · · · · · · · ·	Z IN. (OUMM) FOR ROLLED SHAPES EXCEEDS 2 IN. (50mm) FOR BUILT-I BE DEEMED UNACCEDTADE E DEC	UR WHEN THE WI JP SHAPES: ANY ( ARDI ESS OF SIZE (
THE FABRICATOR OR FRECTOR AS APPLICABLE SHALL MAINTAIN A SYSTE			O HAS WELDE		10. WHEN REQUIRED BY APPENDIX 3, REQUIRING WELD SOLINDNESS TO	TABLE A-3.1, WELL BE ESTARI ISHED
JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LO	OW-STRESS TYPE.				RADIOGRAPHICS OR ULTRASONIC BY QA AS PRESCRIBED. REDUCTION	INSPECTION SHAL
CONTROL AND HANDLING OF WELDING CONSUMABLES	CONTINUOUS F	PERIODIC	CONTINUOUS	PERIODIC	PROHIBITED. 11. REDUCTION OF RATE OF ULTRASC IS ONLY PERMITTED TO BE REDUC	NIC TESTING - TH
* PACKAGING		•		•	AND THE AHJ PER AISC 360-16 CH/ 12. FOR STRUCTURES IN RISK CATEG	VPTER N5.5e. ORY II, WHERE THI
				-	FOR UT IS 10%, THE NDT RATE FOR WELDING OPERATOR SHALL BE IN	R AN INDIVIDUAL W CREASED TO 1009
ENVIRONMENTAL CONDITIONS		•		•	REJECT RATE, THE NUMBER OF W UNACCEPTABLE DEFECTS DIVIDED	ELDS CONTAINING
* WIND SPEED WITHIN LIMITS		•		•	COMPLETED, EXCEEDS 5% OF THE WELDER OR WELDING OPERATOR	WELDS TESTED F
* PRECIPITATION AND TEMPERATURE						E. WHEN THE RE.
* SETTINGS ON WELDING EQUIPMENT				• • • • • •	LEAST 40 COMPLETED WELDS, HA	S FALLEN TO 5% O TO 10%. FOR EVA
* TRAVEL SPEED				·	REJECT RATE OF CONTINUOUS W WHERE THE EFFECTIVE THROAT IS	ELDS OVER 3 FT (1 S 1 IN. (25mm) OR L
* SHIELDING GAS TYPE / FLOW RATE		•		•	IN. (300mm) INCREMENT OR FRACT CONSIDERED AS ONE WELD. FOR	ION THEREOF SHA
* PREHEAT APPLIED					ON CONTINUOUS WELDS OVER 3 P EFFECTIVE THROAT IS GREATER 1 (150mm) OF LENGTH OR EPACTION	T (1M) IN LENGTH HAN 1 IN. (25mm),
* INTERPASS TEMPERATURE MAINTAINED (MIN. / MAX) * PROPER POSITION (F, V, H, OH)					CONSIDERED ON WELD.	
WELDING TECHNIQUES					FABRICATION, THE NDT REPORT S WELD BY PIECE MARK AND LOCAT	HALL IDENTIFY TH
* INTERPASS AND FINAL CLEANING * EACH PASS WITHIN PROFILE LIMITATIONS		•		•	WORK, THE NDT REPORT SHALL IE LOCATION IN THE STRUCTURE, PIE	ENTIFY THE TEST CE MARK, AND LC
* EACH PASS MEETS QUALITY REQUIREMENTS					PIECE. WHEN A WELD IS REJECTE	D ON THE BASIS C LOCATION OF TH
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	•		•		14. DEMAND CRITICAL WELDS SHALL AISC 341-16 AND WELDING METHO	
WELDS CLEANED	CONTINUOUS F		CONTINUOUS	PERIODIC	CONTROL SHALL COMPLY WITH A	VS D1.1 AND THE I
SIZE, LENGTH AND LOCATION OF WELDS	•		•		OR ADJACENT TO THE JOINT, REMOVED.	SHALL BE REPAIR
					b. PREHEAT AND INTER-PASS R SECTION 3.5.	EQUIREMENTS AS
* WELD / BASE-METAL FUSION					c. UNREPAIRED CRACKS, GOUG PERMITTED IN THE JOINT ARE	ES, AND NOTCHES
* CRATER CROSS SECTION	•		•		CONTROLOGY EQUAL TO OR GREA	TER THAN 20 FT-LI
* WELD PROFILES * WELD SIZE					METHODS, AND 40 FT-LBS AT TEST PROCEDURES PRESCR	70 DEGREES FAHF BED IN APPENDIX
* UNDERCUT					ACCEPTABLE ELECTRODES IN	ICLUDE E70TG-K2
* POROSITY ARC STRIKES						
K-AREA <sup>1</sup>	•		•			
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES <sup>2</sup>	•		٠			
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	•		•			
REPAIR ACTIVITIES	•		•			
	•		•			
APPROVAL OF THE EOR		•		•	an e trans	
<sup>1</sup> WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENER VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (75mm) OF 1 <sup>2</sup> AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.1c) AND BUILT-UP HEAVY VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS.	RS HAS BEEN PERF THE WELD) ′ SHAPES (SEE SEC	ORMED II	N THE K-AREA, d) ARE WELDE	D,		
				 • •	*••••••••	· · · · · · · · · · · · · · · · · · ·
	4 - <sup>19</sup> - <sub>10 -</sub>			a de Charles en Salares N		···
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## STRUCTURAL STEEL SPECIAL INSPECTION SCHEDULE

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ESTABLISHE						
NOTES	INSPECTION TASKS PRIOR TO BOLTING (TABLE N5.6-1)	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	
· · · · · · · · · · · · · · · · · · ·	MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS		•	•		1.
	FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS		٠		٠	l
IESE ITEMS ON A RANDOM BASIS. BE DELAYED PENDING THESE	PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)		•		•	2.
M THESE TASKS FOR EACH WELDED JOINT	PROPER BOLTING PROCEDURES SELECTED FOR JOINT DETAIL		•		•	3.
	CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS		•		•	4.
IORITY HAVING JURISDICTION (AHJ), ODE (ABC), PURCHASER, OWNER, OR (FOR), NONDESTRUCTIVE TESTING (NDT)	PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	•			•	
BY THE AGENCY OR FIRM RESPONSIBLE CE, EXCEPT AS PERMITTED IN CTION N6.	PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS		٠		٠	5.
S SHALL BE QUALIFIED IN ACCORDANCE	INSPECTION TASKS DURING BOLTING (TABLE N5.6-2)	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	
ING PERSONNEL SHALL BE QUALIFIED IN C 360-16 CHAPTER N4.3. ING OF WELDED JOINTS SHALL COMPLY	FASTENER ASSEMBLIES, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED		•		٠	6.
TER N5.5a AND b. DING OPERATIONS AND VISUAL INSPECTION MPLETED WELDS SHALL BE THE PRIMARY	JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION		•		•	
HAT THE MATERIALS, PROCEDURES AND	FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING		٠		٠	
JCTURAL STEEL, ALL PROVISIONS OF AWS AL WELDING CODE - STEEL FOR RUCTURES SHALL APPLY. CES OF ACCESS HOLES SHALL BE TESTED	FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES		•		•	7.
WHEN THE FLANGE THICKNESS EXCEEDS D SHAPES, OR WHEN THE WEB THICKNESS	INSPECTION TASKS AFTER BOLTING (TABLE N5.6-3)	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	
ABLE REGARDLESS OF SIZE OR LOCATION. PENDIX 3, TABLE A-3.1, WELDED JOINTS IDNESS TO BE ESTABLISHED BY TRASONIC INSPECTION SHALL BE TESTED REDUCTION IN THE RATE OF UT IS	DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	•		•		8.
FULTRASONIC TESTING - THE RATE OF UT BE REDUCED IF APPROVED BY THE EOR 360-16 CHAPTER N5.5e. SK CATEGORY II, WHERE THE INITIAL RATE TRATE FOR AN INDIVIDUAL WELDER OR 1ALL BE INCREASED TO 100% SHOULD THE BER OF WELDS CONTAINING	<ol> <li>GENERAL STEEI</li> <li>QUALITY ASSURANCE (QA) INSPECTION OF FABRICATED ITEMS SHALL BE MADE AT INTERRUPTION TO THE WORK OF THE FABRICATOR.</li> <li>QA INSPECTION OF THE ERECTED STEEL SYSTEM SHALL BE MADE AT THE PROJECTION OF THE PROJECTION OF THE ERECTED STEEL SYSTEM SHALL BE MADE AT THE PROJECTION OF THE PROJECTIO</li></ol>	L SPECIAL THE FABRICATE	INSPEC OR'S PLANT	TION NOTE	ES : ASSURANC	

- WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH QC AND QA, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QCI AND QAI SO THAT THE INSPECTION FUNCTIONS ARE PERFORMED BY ONLY ONE PARTY. WHERE QA RELIES UPON INSPECTION FUNCTIONS PERFORMED BY QC, THE APPROVAL OF THE ENGINEER OF RECORD AND THE AUTHORITY HAVING JURISDICTION IS REQUIRED.
- THE FABRICATOR'S QCI SHALL INSPECT THE FABRICATED STEEL TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE SHOP DRAWINGS, SUCH AS PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION. THE ERECTOR'S QCI SHALL INSPECT THE ERECTED STEEL FRAME TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE ERECTION DRAWINGS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.
- THE QAI SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. AS A MINIMUM, THE DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE, SHALL BE VERIFIED PRIOR TO PLACEMENT OF THE CONCRETE.
- THE QAI SHALL INSPECT THE FABRICATED STEEL OR ERECTED STEEL FRAME, AS APPROPRIATE, TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION. QUALITY ASSURANCE (QA) INSPECTIONS, EXCEPT NONDESTRUCTIVE TESTING (NDT), MAY BE WAIVED WHEN THE WORK IS PERFORMED IN A FABRICATING SHOP OR BY AN ERECTOR APPROVED BY THE
- AUTHORITY HAVING JURISDICTION (AHJ) TO PERFORM THE WORK WITHOUT QA. NOT OF WELDS COMPLETED IN AN APPROVED FABRICATOR'S SHOP MAY BE PERFORMED BY THAT FABRICATOR WHEN APPROVED BY THE AHJ. WHEN THE FABRICATOR PERFORMS THE NDT, THE QA AGENCY SHALL REVIEW THE FABRICATOR'S NDT REPORTS. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AHJ STATING THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE FABRICATOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. AT COMPLETION OF ERECTION, THE APPROVED ERECTOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AHJ STATING
- THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE ERECTOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. IDENTIFICATION AND REJECTION OF MATERIAL OR WORKMANSHIP THAT IS NOT IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS, SHALL BE PERMITTED AT ANY TIME DURING THE PROGRESS OF THE WORK. HOWEVER, THIS PROVISION SHALL NOT RELIEVE THE OWNER OR THE INSPECTOR OF THE OBLIGATION FOR TIMELY, IN-SEQUENCE INSPECTIONS. NONCONFORMING MATERIAL AND
- WORKMANSHIP SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE FABRICATOR OR ERECTOR, AS APPLICABLE. 10. NONCONFORMING MATERIAL OR WORKMANSHIP SHALL BE BROUGHT INTO CONFORMANCE, OR MADE SUITABLE FOR ITS INTENDED PURPOSE AS DETERMINED BY THE ENGINEER OF RECORD. 11. CONCURRENT WITH THE SUBMITTAL OF SUCH REPORTS TO THE AHJ, EOR OR OWNER, THE QA AGENCY SHALL SUBMIT TO THE FABRICATOR AND ERECTOR: (1) NONCONFORMANCE REPORTS

(2) REPORTS OF	REPAIR, RE	PLACEMENT OR ACCEPTANCE OF NONCONFORMING ITEMS.
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	FRAMI	NG NOTES							e de la deserve en entre en e entre en entre			
	1. 2. 3. 4. 5. 6. 7.	SSH-1 (ST AND BOTT DETAILS 6 SSW-1 (ST OTHERWIS ALL WALLS SEE DETA SSJ-1 (STE OF JAMB ( SEE DETA SEE DETA SEE ARCH INFORMAT	- EEL STUD HE/ OM. AT 6" WA /S201, 5/S205, EEL STUD WA SE. SSW-2 (ST S EXCEPT WH IL 3/S201. EEL STUD JAN CONNECTION. IL 2/S204 FOR IRE ROPE LOC IITECTURAL D FION. OCKING. SEE	ADER). AT 3 ALL, USE (2) 6/S205, ANE ALL) = 362S1 EEL STUD V IERE WALL I MB) = (2) 3625 . SSJ-2 (STE . REQUIRED CATIONS. SE PRAWINGS A	3 5/8" WALL, U 600S162-68 V 0 7/S205, FOR 62-54 AT 16"0 VALL) = 600S1 IS SHEATHED S162-54, SEE I EL STUD JAW DETAILING A EDETAIL 6/S 502 AND A503 S202.	SE (2) 60 ERTICAL DIFFER c., ALL \ 62-554 A ON BOT DETAIL 7 DETAIL 7 IB) = (2) ISMALL 203 AND B FOR AL	00S162-6 - WITH (2 ENT COI WALLS S AT 16"o.c TH SIDES 7/S203 A 600S162 . PENETI 8/S205. DDITION,	8 VERT 2) 600T <sup>2</sup> NDITION HALL B HALL B HALL B ND 1/S2 -54. RATION	ICAL WITH (2) 3 25-68, TOP ANI IS. E SSW-1 UNLE GING IS REQUIF SHEATHING AN 204. SEE DETAI S IN DECK. UCTURAL WOR	62T125-68, TOF D BOTTOM. SEI RED AT 4'-0"o.c. D OR GYP BOA L 2/S205 FOR TO K AND	Ξ AT RD. OP	H
	8.	Sli	MPSON STRAF	P 	jeren er som er en er	Т	1 1	Т		· · ·		
MIC JOII	NT			F				7	· · · · · · · · · · · · · · · · · · ·			G
IOISTS E	BELOW											
I STRAP /S203	• - SEE	•••					 _ s	EE NO <sup>-</sup>	те 5, түр.	····		F
		10							<u> </u>	_		
		·			· · · · · · · · · · · · · · · · · · ·				6 TYF S203 ROF	2. AT EACH WIR	Ξ	E
АТ М	····			· · · · · · · · · · · · · · · · · · ·			TYP.		— USE (2) JOIS BRACE LOC	TS AT EACH ATION, TYP.		
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-Co	orp		ART GAPAS PROJECT E DESIGNED	SIN NGINEER A. Bown		BY	DAF MGI DATE	RYL KIT R. ENG 08	CHEN INEERING - LA .20.2021	N 1	004394	A
IFFERENCE			CHECKED	Z. Thorner S. Ericksen	ENROUTE	JERVICES /FSS	ZL	A-D-A	RTCC- S	102		













![](_page_18_Figure_0.jpeg)

![](_page_19_Figure_0.jpeg)

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## **GENERAL NOTES:**

- A. DEVELOP RISK MITIGATION PLANS WITH COR ON THE FOLLOWING ISSUES:
- a. DISRUPTION TO THE CONTROL ROOM 1052. b. MAINTAINING SECURITY TO THE BUILDING DURING
- c. MAINTAINING ACCESS AS REQUIRED FOR FAA TO THE CONTROL WING.
- d. STAGING OF DEMOLITION OF THE CONTROL ROOM WALL AND CONSTRUCTION OF THE NEW WALL ON
- B. CONTRACTOR SHALL PROVIDE DUST-PROOF PARTITIONS MAINTAINED AT ALL TIMES TO PREVENT INTRUSION OF CONSTRUCTION DUST AND DEBRIS FROM
- ENTERING THE FACILITY. C. THE CONTRACT DOCUMENTS ASSUME THERE IS NO
- ASBESTOS CONTAINING OR OTHER HAZARDOUS MATERIALS WITHIN THE WORK AREA.
- D. ALL DEBRIS SHALL BE REMOVED FROM THE BUILDING AND ALL AREAS SHALL BE LEFT IN A BROOM-CLEAN CONDITION AT THE END OF EACH WORK SHIFT.
- E. CONTRACTOR SHALL DEMO REMAINING MATERIALS THAT WERE LEFT THAT IS NOTING BEING USED FOR NEW INSTALLATION OF SYSTEMS( ELECTRICAL, HVAC
- MECHANICAL, CONTROLS, ETC F. DEMO OF UPPER WALL SEPARATING DSR ATTIC AND
- M1 STILL NEEDS TO BE COMPLETED AT THE END OF PROJECT AFTER THE MAJOR PORTION OF HE M1
- PROJECT IS COMPLETED TO REUSE IN DSR ATTIC AND NEW CONTROL ROOM FLOOR.
- G. DEMO OF DUST BARRIER WALL IN THE CONTROL ROOM COMES LAST AND DUST CONTROL MEASURES SHALL BE TAKEN IN DSR ATTIC AND CONTROL ROOM WHEN DEMO OF DUST BARRIER WALL IS COMPLETED.
- H. DEMO AND REMOVAL OF ANY CONTROL AND ELECTRICAL WIRING, CONDUIT, SUPPORTS, HANGERS THAT ARE NOT BEING REUSED IN REQUIRED. I. CONTRACTOR SHALL FIELD VERIFY THAT ALL PREVIOUS DEMO WAS COMPLETED TO COMPLETE THE CONTRACT. J. CONTRACTOR IS REQUIRED TO FINISH ANY
- K. CONTRACTOR TO VERIFY ALL DEMO OF ORIGINAL M1 CEILING IS COMPLETED . FIELD VERIFY, CONTRACTOR SHALL COMPLETE ANY DEMO THAT WAS NOT

## DEMOLITION KEY NOTES

- REMOVE METAL STUD AND GWB PARTITIONS AND DOOR ASSEMBLIES AS INDICATED.
- PROVIDE DUST BARRIERS.
- REMOVE (E) KO PANEL FOR CONSTRUCTION AND REPLACE AT END OF CONSTRUCTION.
- REMOVE EXISTING GUARDRAIL AND HANDRAIL AND REPLACE, MEETING ABA.

## DEMO LEGEND

= = = = = = PARTITIONS, DOORS, TO BE REMOVED

2

= = = DB= = DUST BARRIER

![](_page_19_Figure_30.jpeg)

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RCHITECTS	PA	LMDALE			LOS ANGELES C	ſR			CA	
2484 Washington Blvd. Itah 84401-2346	RE	VIEWED BY	SUBMITTED BY			APPROVED BY				Α
/ww.clhae.com			ART GAPASIN			DARYL KITCHEN				
-			PROJECT ENG	INEER	1	MGR. ENGINEER	RING - LA			
-Corp			DESIGNED	KDL	ISSUED BY	DATE 02.04.2021	JCN	1	004394	
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	ARCHITE	CTURAL NOTES	
Н	1. THE S PRIMA DRAW SHALL	STRUCTURAL DRAWINGS PRECEDENCE ARCHIT ARY CONTRACT DOCUMENTS. ANY CONFLICTS I /INGS AND EXISTING CONDITIONS AND/OR DRAV BE IMMEDIATELY REPORTED TO THE ARCHITE	TECTURAL DRAWINGS AS THE BETWEEN ARCHITECTURAL WINGS OF OTHER DISCIPLINES ECT.
	2. THE C ITEMS SHALL	CONTRACTOR SHALL VERIFY ALL EXISTING CON AND DIMENSIONS BETWEEN EXISTING AND NE BE VERIFIED TO ENSURE COORDINATION.	NDITIONS PRIOR TO ANY WORK. W PORTIONS OF THE PROJECT
G	3. THE C THE C WITH	CONTRACTOR SHALL SUBMIT ANY PROPOSED O CONTRACT DOCUMENTS, IN WRITING, TO THE AI ANY ACTION.	CHANGES OR MODIFICATIONS OF RCHITECT BEFORE PROCEEDING
	4. WHEI STANI ARCH	RE SPECIFIC DETAILS ARE NOT PROVIDED, TYP DARD DETAILS SHALL APPLY. IF FURTHER DETA ITECT.	ICAL OR SIMILAR INDUSTRY AIL IS REQUIRED CONTACT
	5. DETA THE D MAY E	AILS ARE PROVIDED FOR VISUAL REPRESENTAT ETAILS ARE BASED ON A BASIS-OF-DESIGN PRO BE DIAGRAMMATIC IN NATURE.	TION OF DESIGN INTENT. OFTEN ODUCT AND/OR MATERIAL AND
F	6. IF A D OR SF CONT TO RE	DIFFERENT PRODUCT OR MATERIAL FROM THAT PECIFICATIONS IS SUBSTITUTED, IT IS THE RESP RACTOR TO PROVIDE ALTERNATE DETAILS AS I EVIEW.	T INDICATED ON THE DRAWINGS PONSIBILITY OF THE REQUIRED FOR THE ARCHITECT
	7. GENE THE C OF ST	ERALLY, DIMENSIONS SHOWN OF ARCHITECTUF ORE STRUCTURE FACE (IE. CONCRETE WALL=F UD).	RAL DRAWINGS ARE TAKEN FROM FACE OF WALL; STUD WALL=FACE
E	8. ANY A FOR II OPEN THE C	ADDITIONAL BLOCKING, BRACING, TRIM, FLASH NSTALLATION OF COMPLETE SYSTEMS_ PERTA INGS, PENETRATIONS, ETC. ARE EXPECTED TO CONTRACTOR.	ING, SEALANTS, ETC. REQUIRED INING TO DOORS, WINDOWS, BE PROVIDED AND INSTALLED BY
	9. ASSU NOTE	IME ALL GYP. BD. WALLS TO HAVE TOPSET RUB D OTHERWISE.	BER BASE INSTALLED UNLESS
	10. PRC IN CO	OVIDE SEALANT OR TRIM AS APPROPRIATE WHE NTACT.	ERE DISSIMILAR MATERIALS COME
-	11. PRC	VIDE FLOORING TRANSITION WHERE DISSIMIL	AR FLOORING MATERIALS OCCUR.
D	ATTAC	CHED TO PAINTED SURFACES, SUPPORTS	HE ELEMENTS.
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![](_page_20_Figure_1.jpeg)

![](_page_20_Figure_2.jpeg)

![](_page_20_Figure_3.jpeg)

SYMBOLS	
1 View Name	VIEW TITLE
0 1" 2"	GRAPHIC SCALE
	NORTH ARROW w/ TRUE NORTH
0	GRID INDICATOR
1 SIM A101	SECTION CALLOUT
1 SIM()	DETAIL CALLOUT
1 SIM A101	DETAIL CALLOUT
تقرير 1 (A101) 1	ELEVATION CALLOUT
Name Elevation	LEVEL / ELEVATION CALLOUT
100'-0"	SPOT ELEVATION CALLOUT
_1:12	ROOF SLOPE INDICATOR
Room name	ROOM TAG
(101A)	DOOR TAG
A	WALL TAG
	WINDOW TAG
A	DEMOLITION KEYNOTE
Ê	FIRE RISER

	ABBREVIA	TIONS	
& L @ #	AND ANGLE AT POUND OR NUMBER	JAN JST JT	JANITOR JOIST JOINT
& L @ # AC A.F.F. ALUM APPROX ARCH APPROX ARCH ASPH BD BITUM BLDG BLKG BTM C C.I. C.J. C.L. CLG CLR C.J. C.L. CLG CLR C.O. CONC CONSTR CONT C.T. CTR D.C.W. D.F. DTL DIA DIM DISP DN DRN DS DWG E EA E.I.F.S. E.J. ELEC ENGR EQUIP (E) EXP EXT F.A. F.D. FLR FLASH FLOR F.O. F.T. FTG FUT GA GALV GNP GNP H B	AND ANGLE AT POUND OR NUMBER ACOUSTICAL ABOVE FINISH FLOOR ALUMINUM APPROXIMATE ARCHITECTURAL ASPHALT BOARD BITUMINUUS BUILDING BLOCKING BEARING BOTTOM TOP OF FINISH CONCRETE CAST IRON CONTROL JOINT CENTER LINE CELLING CLEAR CONCRETE MASONRY UNIT CLEAN OUT CLEAN OUT CLEAN OUT CLEAN OUT CLEAN OUT CLEAN OUT CLEAN OUT CLEAN OUT CLEAN OUT CLEAN OUT CONSTRUCTION	JAN JST JT K.O. LAM LAV MAX MAS MECH MEMB MTL MFTR MH MIN MISC M.O. MTD N N.I.C. NO or # NOM N.T.S. O.C. O.D. OFF OH OPNG OPP PLAM PLYWD P.O.C. PNL PR PT Q.T. RAD RESIL RFG RM RS R.O. SCH SECT STD STD STD STD STD STD STD STD STD ST	JANITOR JOIST JOINT KNOCK OUT LAMINATE LAVATORY MAXIMUM MASONRY MECHANICAL MEMBRANE METAL MANUFACTURER MANUFACTURER MANUFACTURER MANHOLE MINIMUM MISCELLANEOUS MASONRY OPENING MOUNTED NORTH NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE ON CENTER OUTSIDE DIAMETER (DIM) OFFICE OVERHEAD OPENING OPPOSITE PLATE P
H.B. HC H.M. HORIZ HGT I.D. IN INSUL	HOSE BIBB HANDICAP HOLLOW METAL HORIZONTAL HEIGHT INSIDE DIAMETER (DIM) INCH, INCHES INSULATION	VEST W W/ WC WD W/O WP	VESTIBULE WEST WITH WATER CLOSET WOOD WITHOUT WATERPROOF
INT	INTERIOR		

![](_page_20_Picture_6.jpeg)

Case, Lowe & Hart, Inc. 248 Suite 510 Ogden, Utah 801.399.5821 www BUILDING A WORLD OF DIFFE

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![](_page_21_Figure_0.jpeg)

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## **KEY NOTES:**

 $\langle$  A1 angle provide vertical control joints at 30'-0" in New GWB. SEE DETAIL C7/A504, ALIGN JOINTS WITH DOOR JAMBS WHERE POSSIBLE. CONTROL JOINT IS NOT REQUIRED IN SHEAR WALLS- WALL TYPE "B"

〈A2 〉 PROVIDE OPERABLE (STACKABLE) PARTITION, MOUNTED TO

 $\langle$  A3  $\rangle$  SEMI-RECESSED FIRE EXTINGUISHER CABINET WITH DRY CHEMICAL FIRE EXTINGUISHER. PROVIDE BLOCKING AS REQUIRED. FIELD VERIFY EXACT LOCATION WITH PROJECT

 $\langle$  A4  $\rangle$  NEW RAISED FLOOR, SEE SPECIFICATION.

 $\langle$  A5  $\rangle$  2.7" EXP JOINT BETWEEN EXISTING WALL AND NEW

 $\langle$  A6  $\rangle$  PROVIDE HORIZONTAL BLOCKING FOR FLAT-SCREEN TV INSTALLATION (TV BY OTHERS). PROVIDE RECEPTACLE AT 48"AFF-SEE ELECTRICAL. COORDINATE EXACT LOCATION

 $\langle$  A7  $\rangle$  NEW RAISED FLOOR SYSTEM GUARD RAILS.

(A8 ) EXISTING RAISED FLOOR SYSTEM & RAMPS. REMOVE (E) GUARDRAIL AND PROVIDE NEW GUARDRAIL TO MEET ABA.

 $\langle$  A9  $\rangle$  PROVIDE NEW GUARD RAIL AT EXISTING RAISED FLOOR

(A10) BRIDGE GALLERY ABOVE AT COLUMN LINE 'K'.

 $\langle A_{11} \rangle$  location of New Door in Attic along column line 'm' IS APPROXIMATE. COORDINATE EXACT LOCATION WITH THE LOCATION OF EXISTING BEAM HANGERS.

(A12) INSTALL #6 DRYWALL SCREWS @ 12" O.C. ON EXISTING DRYWALL OVER BRIDGE AND 12" O.C. ON HORIZ TRACK.

 $\langle$ A13 $\rangle$  R-13 BATT INSUL ON TOP OF CEILING PANELS- TYP ALL

(A14) TEMP DUST PARTITION

 $\langle A15 \rangle$  INFILL EXISTING KO WALL PANEL WITH METAL PANELS TO MATCH EXISTING COLOR AND PROFILES.

(A16) FOR ENTIRE LENGTH (62 LINEAR FEET): PROVIDE PATCHING COMPOUND ON EXISTING DAMAGED VINYL GYPSUM WALL BETWEEN BRIDGE CEILING AND NEW CEILING TO HIDE ALL SCREWS, TEARS AND OTHER DAMAGE. PATCHING COMPOUND SHALL BE INSTALLED TO MAKE SMOOTH SEAMLESS SURFACE. PAINT ALL EXPOSED SURFACES.

WHERE PERIMETER INSULATION WITH VAPOR BARRIER IS MISSING OR DAMAGED, FURNISH AND INSTALL NEW INSULATION AND VAPOR BARRIER TO MATCH EXISTING.

 $\langle$ A18 $\rangle$  provide sign that states "storage for folding" PARTITION SHALL BE ON THIS SIDE ONLY".

 $\langle$ A19 $\rangle$  PROVIDE SIGN THAT STATES "STORAGE OF FOLDING" PARTITION PROHIBITED AT THIS END"

 $\langle A20 \rangle$  provide sign that states "No storage allowed on

 $\langle$ A21 $\rangle$  INSTALL PLYWOOD SHEATHING ON THIS FACE OF WALL

 $\langle A22 \rangle$  PROVIDE RETURN AIR OPENING OVER DOOR SEE MECH TO

## $\langle$ A23 $\rangle$ PROVIDE SELF-CLOSING PIPE GATE

(A24) PROVIDE RETURN AIR OPENING IN FIRE WALL STUD SPACE-— SEE MECH AND STRUCTURAL

## В REDLINE DATE APPROVED DESCRIPTION JCN DATE DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WESTERN SERVICE AREA **ATO - TECHNICAL OPERATIONS** ARTCC **RECONFIGURE M1 ROOM** MAIN FLOOR PLAN ARCHITECTS PALMDALE LOS ANGELES CTR CA ENGINEERS APPROVED BY SUBMITTED BY REVIEWED BY Α ART GAPASIN DARYL KITCHEN PROJECT ENGINEER MGR. ENGINEERING - LA E-Corp DESIGNED DATE JCN ISSUED BY 02.04.2021 1004394 KDL ENGINEERING SERVICES DRAWN DRAWING NO KDL ZLA-D-ARTCC- A101 ENROUTE/FSS CHECKED SJP

## **GENERAL NOTES:**

1. THE CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO ANY WORK AND SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY SUBCONTRACTORS.

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- 2. ALL DIMENSIONS ON THE PLAN ARE FROM STUD SURFACE TO STUD SURFACE UNLESS OTHERWISE INDICATED.
- 3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREIN OR NOT AND TO PROTECT THEM FROM DAMAGE.
- 4. ALL DEBRIS SHALL BE REMOVED FROM THE BUILDING AND ALL AREAS SHALL BE LEFT IN A BROOM CLEAN CONDITION AT THE END OF EACH WORK SHIFT.
- 5. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS AND SHALL MAINTAIN THE STRUCTURAL INTEGRITY OF ANY CONSTRUCTION UNTIL ALL LOAD CARRYING SYSTEMS ARE COMPLETED.
- 6. REFER TO SHEET A504 FOR PARTITION TYPE 7. DO NOT PROVIDE OR INSTALL GYPSUM BOARD
- MANUFACTURED IN CHINA 8. CONTRACTOR SHALL PATCH ALL WALLS WHERE DEVICES HAVE BEEN REMOVED, INCLUDING BUT NOT LIMITED TO FIRE EXTINGUISHER CABINETS, AED CABINETS, LIGHT SWITCHES AND FIRE ALARM EQUIPMENT
- 9. NEW METAL STUD TO EXTEND TO NEW MEZZANINE DECK. GYPSUM BOARD TO EXTEND **6" ABOVE CEILING TYP EXCEPT AT FIRE** PARTITIONS AND SHEAR WALLS GYPSUM BOARD TO EXTEND TO DECK.
- 10. REFER TO STRUCTURAL DRAWINGS FOR METAL STUD DESIGN.
- 11. EXISTING PAINT ON STEEL BEAMS AND GRATING CONTAINS LEAD AND WILL NEED TO HAVE ABATEMENT PREFORMED, BY LICENSED CONTRACTOR.

![](_page_21_Picture_48.jpeg)

AUTOMATION WING

KEY PLAN

![](_page_22_Figure_0.jpeg)

MAIN	FLOOR	FIN
1/8" = 1'-0"		

ROOM					WALL	FINISHES				
NUMBE R	NAME	FLOOR NAME	WALL BASE	NORTH	WEST	SOUTH	EAST	CEILING FINISH	CEILING HEIGHT	COMMENTS
3	STAIR	-	-	-	-	-	-	-		NO WORK IN THIS AREA
1051	CBILAB	CPT-1	RB-1	PT-2	PT-2	PT-1	PT-1	ACP-1	9' - 0"	
1051A	BRK RM	VCT-1	RB-1	PT-1	PT-2	PT-3	PT-1	ACP-1	9' - 0"	WD-1 FOR MILLWORK/SS-1 FOR COUNTERTOP
1051B	MECH STOR	CPT-1	RB-1	PT-1	PT-3	PT-1	PT-1	ACP-1	9' - 0"	
1051C	(E) MECH	-	-	-	-	-	-	-		NO WORK IN THIS AREA
1051D	AREA A SUPERVISOR	CPT-1	RB-1	PT-1	PT-1	PT-3	PT-1	ACP-1	9' - 0"	
1051E	AREA B SUPERVISOR	CPT-1	RB-1	PT-1	PT-1	PT-3	PT-1	ACP-1	9' - 0"	
1051F	AREA C SUPERVISOR	CPT-1	RB-1	PT-1	PT-1	PT-3	PT-1	ACP-1	9' - 0"	
1051G	AREA D SUPERVISOR	CPT-1	RB-1	PT-1	PT-1	PT-3	PT-1	ACP-1	9' - 0"	
1051H	TECH OPS OFF	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-3	ACP-1	9' - 0"	
10511	OFFICE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-3	ACP-1	9' - 0"	
1051J	AREA E SUPERVISOR	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-3	ACP-1	9' - 0"	
1051K	AREA F SUPERVISOR	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-3	ACP-1	9' - 0"	
1051L	STMC	CPT-1	RB-1	PT-3	PT-1	PT-1	PT-1	ACP-1	9' - 0"	
1051M	CONF RM	CPT-1	RB-1	PT-2	PT-1	PT-1		ACP-1	10' - 0"	PROVIDE SLIDER "IN USE / NOT IN USE" 8 ON NORTH END OF ROOM, AND 9 ON SOUTH END
1051N	CONF RM	CPT-1	RB-1	PT-2		PT-1	PT-1	ACP-1	10' - 0"	PROVIDE SLIDER "IN USE / NOT IN USE" 8 ON NORTH END OF ROOM, AND 9 ON SOUTH END
10510	CORRIDOR	CPT-1	RB-1	PT-1	PT-2	PT-1	PT-2	ACP-1	9' - 0"	
1051P	CORRIDOR	CPT-1	RB-1	PT-2		PT-2		ACP-1	9' - 0"	
1051Q	CORRIDOR	CPT-1	RB-1	PT-2	PT-2	PT-2	PT-2	ACP-1	9' - 0"	
1051R	CORRIDOR	CPT-1	RB-1	PT-2		PT-2	PT-2	ACP-1	9' - 0"	
1052	CONTROL RM	CPT-1/VCT-1	RB-1	PT-1	AWP/PT-1	AWP/PT-1	PT-1	ACP-1	12' - 0"	
MEZZ	Room									PROVIDE (2) ONE AT WEST LADDER AND ONE AT EAST LADDER

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![](_page_22_Figure_7.jpeg)

![](_page_22_Picture_8.jpeg)

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FINISHES LEGEND			TEQ:					
<b>— — —</b> RB-1 RU	JBBER BASE	1. SEE ROOM FIN	IISH SCHEDULE ON	THIS SHEET FOR				
EXISTIN	ig flooring	ADDITIONAL INF 2. WORK ON EAS BETWEEN MIDN 2:00 AM TILL 5:00 3. MATCH NEW VI CONTROL ROOM	ORMATION I SIDE OF DUST BAF IGHT AND 5:30 AM P AM. COORDINATE NYL COMPOSITION A AREA WITH EXISTI	RIER WALL SHALL BE ST. NOISY WORK IS FROM WITH COR. TILE (VCT) IN NORTH NG VCT IN SOUTH	Н			
	OMPOSITION TILE	ENTRANCE OF C		ORDINATE WITH COR.				
RAISED	FLOOR				G			
CPT-1 C	ARPET							
TERIAL FINISHES	S SCHEDULE		]		F			
			-					
SHERWIN WILLIAMS- SW 703 SHERWIN WILLIAMS- SW 764 SHERWIN WILLIAMS- SW 761 SHERWIN WILLIAMS- SW 703 CARPET & BUBBE	ACCCESSIBLE BEIGE, SATH 13 PUSSY WILLOW, SATIN SHE 12 MOUNTAIN STREAM, SATIN 32 WARM STONE, SATIN SHEE 	EEN, WALLS SHEEN, WALLS SHEEN, WALLS N, WALLS						
1 MASLAND SPEAK T503 VIBRA 2 "HOUSTON" FROM DISCOVER	ATO #50308 AZORES 24x 24 TII RY ECO SERIES BY JULIE IND <sup>I</sup>	LE 1/4 TURN LAY USTRIES						
ROPPE- #150 DARK GRAY, 4" ACOUSTICAL WALI	, INCLUDE OUTSIDE PREMOLI	DED CORNERS.	-		E			
ACOUSTICORD TRI/KES SOURSE-ONE ACS-32 HEATHER 6'-7" WIDE INSTALL HORIZONTALLY								
ACOUSTICAL CEILI	ING TILE	6 (ANGLED TEGULAR)	-					
OR OLYMPIA MICRO CLIMAPI	LUS 4221 BY USG							
WOOD	OD SATIN			WING				
SOLID SURFA COLOR TO BE SELECTED IN	ICE SHOP DRAWINGS							
				AUTOMATION WING				
				KEY PLAN				
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![](_page_23_Figure_0.jpeg)

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GE	NERAL NOTES					
	HE CONTRACTOR SHALL FIELD V	ERIFY ALL CONDITIONS F	PRIOR TO ANY	+		
W IN	ORK AND SHALL BE RESPONSIBL CLUDING THOSE FURNISHED BY	E FOR ALL WORK AND M SUBCONTRACTORS.	ATERIALS			
2. T TH	HE ACOUSTICAL CEILING GRID SH HE DRAWING.	HALL BE BALANCED AS IN	IDICATED ON			
3. A E>	.COUSTICAL CEILING HEIGHT SHA KCEPT CONF RM WHICH ARE 10'-0	LL BE AT 9'-0" AFF IN ALL	. ROOMS RWISE.			
4. L DE	OCATE CEILING MOUNTED FIXTUI ETECTORS, DOWN LIGHTS, SPEAI	Ý RES, I.E. SMOKE DETECT KERS. EXIT SIGNS. ETC. I	ORS, HEAT N THE CENTER			
OF 5 R	F CEILING PANELS.			0		
RE	ESTRAINTS.					
6. N 7. P	IINIMUM ALLOWABLE CEILING TIL	E WIDTH TO BE NO LESS DUSTIC CEILING SYSTEM	IHAN 6". IS.			
<u>SH</u>	<u>EET KEY NOTES</u>					
	ACOUSTICAL CEILING HEIGHT	@ 10'-0" AFF		F		
A2 ACOUSTICAL CEILING @ 9'-0" A.F.F. TYPICAL UNLESS NOTED OTHERWISE.						
<b>A3</b>	NO WORK IN THIS AREA.					
<b>A</b> 4		; TILE WIDTH TO BE NO L	.ESS THAN 4".			
<b>A5</b>	CENTER FULL-WIDTH ACT TILE	IN ALL CORRIDORS				
<b>A6</b>	NEW CONTROL ROOM ACT CE	ILING HGT. AT 10'-6" AFF.				
<b>A</b> 7	PROVIDE BRACING AT 12' ON C THE ROOM. COORDINATE ACT	CENTER EACH WAY MAXI	MUM THROUGHOUT ES IN THE FIELD.			
	COORDINATE WITH COR. SEE BRACES. THE CEILING SHALL I	D8/A504 FOR TENSION O NOT BE BRACED TO THE	R COMPRESSION OBSERVATION	E		
	BRIDGE WALL.					
				$\neg$		
			ADMINISTRATION			
			WING			
			CONTROL WING	L L		
			AUTOMATION			
			WING			
			KEY PLAN			
REV APPROVED	DESCRI	PTION	JCN REDLINE DATE	E APVD		
	DEPARTMENT FEDFRAL AV/IAT	OF TRANSPORTATIO	)N ATION			
ATO - TEO	CHNICAL OPERATIONS		WESTERN SERVICE A	REA		
			N 4			
	RECONFIG	JURE M1 ROO	M			
	REFLECTE	D CEILING PLA	NN			
PALMDALE	LOS	ANGELES CTR		CA		
REVIEWED BY	SUBMITTED BY	APPROVED BY		<i>k</i>		
	ART GAPASIN PROJECT ENGINEER	DARYL KITC MGR. ENGI	HEN NEERING - LA			
	DESIGNED KDL ISSUE	ED BY DATE 02.0	)4.2021 JCN	1004394		
	CHECKED S.IP	ITE/FSS ZLA-D-A	RTCC- A103	NEV		

![](_page_24_Figure_0.jpeg)

![](_page_25_Figure_0.jpeg)

			2		1					
	<u>KEY NC</u>	DTES:								
$\rangle$	PROVIDE VEI SEE DETAIL ( POSSIBLE.	RTICAL CONTROL J C7/A504, ALIGN JOI	IOINTS AT 30'-0" IN NEW GWB. NTS WITH DOOR JAMBS WHERE					н		
$\rangle$	PROVIDE OP BEAM ABOVE	ERABLE (STACKAB	LE) PARTITION, MOUNTED TO							
$\rangle$	SEMI-RECESSED FIRE EXTINGUISHER CABINET WITH DRY CHEMICAL FIRE EXTINGUISHER. PROVIDE BLOCKING AS REQUIRED. FIELD VERIFY EXACT LOCATION WITH PROJECT MANAGER									
$\rangle$	NEW RAISED	FLOOR, SEE SPEC	CIFICATION.							
$\left.\right>$	2.7" EXP JOIN	IT BETWEEN EXIST	ING WALL AND NEW PARTITION					G		
$\rangle$	PROVIDE HORIZONTAL BLOCKING FOR FLAT-SCREEN TV INSTALLATION (TV BY OTHERS). PROVIDE RECEPTACLE AT 48"AFF-SEE ELECTRICAL. COORDINATE EXACT LOCATION WITH COR.									
$\rangle$	NEW RAISED	FLOOR SYSTEM G	UARD RAILS.							
	EXISTING RA GUARDRAIL	ISED FLOOR SYSTI AND PROVIDE NEW	EM & RAMPS. REMOVE (E) GUARDRAIL TO MEET ABA.							
$\rangle$	PROVIDE NE	W GUARD RAIL AT	EXISTING RAISED FLOOR RAMP.							
$\rangle$	BRIDGE GALI	LERY ABOVE AT CO	DLUMN LINE 'K'.					F		
$\left\langle \right\rangle$	LOCATION OF NEW DOOR IN ATTIC ALONG COLUMN LINE 'M' IS APPROXIMATE. COORDINATE EXACT LOCATION WITH THE LOCATION OF EXISTING BEAM HANGERS.									
$\rangle$	INSTALL #6 DRYWALL SCREWS @ 12" O.C. ON EXISTING DRYWALL OVER BRIDGE AND 12" O.C. ON HORIZ TRACK.									
$\rangle$	R-13 BATT INSUL ON TOP OF CEILING PANELS- TYP ALL ROOMS									
$\rangle$	TEMP DUST F	PARTITION								
$\rangle$	INFILL EXISTI METAL PANE	ING KO WALL PANE LS TO MATCH EXIS	EL WITH CONCRETE PANELS AND TING COLOR AND PROFILES.	)				Е		
$\rangle$	FOR ENTIRE COMPOUND BETWEEN BF SCREWS, TE SHALL BE INS PAINT ALL EX	LENGTH (62 LINEA ON EXISTING DAMA RIDGE CEILING AND ARS AND OTHER D STALLED TO MAKE (POSED SURFACES	R FEET): PROVIDE PATCHING AGED VINYL GYPSUM WALL O NEW CEILING TO HIDE ALL AMAGE. PATCHING COMPOUND SMOOTH SEAMLESS SURFACE. S.							
$\rangle$	WHERE PERI MISSING OR AND VAPOR I	METER INSULATIO DAMAGED, FURNIS BARRIER TO MATC	N WITH VAPOR BARRIER IS 3H AND INSTALL NEW INSULATIO H EXISTING.	N	ADMINISTRA WING	TION				
$\rangle$	PROVIDE SIG	IN THAT STATES "S HALL BE ON THIS S	STORAGE FOR FOLDING SIDE ONLY".					D		
$\rangle$	PROVIDE SIG PROHIBITED	SN THAT STATES "S AT THIS END"	TORAGE OF FOLDING PARTITIO	N	CONTROI	_ WING				
$\rangle$	PROVIDE SIG MEZZANINE".	IN THAT STATES "N	IO STORAGE ALLOWED ON				-			
$\rangle$	NEW SHIPP'S FRAMING FO	G LADDER, SEE STR R NEW OPENING.	RUCTURAL FOR ADDITION STEEL		KEY P					
$\rangle$		JARDRAIL, REMOVI	E EXISTING GRATING AS		<u> </u>			~		
		C WELD NEW PIPE						С		
/										
		REV APPROVED DATE	DESCRIP	FION	JCN	REDLINE DATE	APVD	В		
d ×			DEPARTMENT OF FEDERAL AV/IATI	OF TRANSPORTATIO	ON ATION					
30° 2	IN	ATO - TECH	INICAL OPERATIONS		WESTERN S	ERVICE ARE/	4			

ARTCC	
RECONFIGURE M1	ROOM

## PARTIAL ATTIC PLAN

CHITECTS	PALMDALE		LOS ANGELES CTR				
2484 Washington Blvd. tah 84401-2346	REVIEWED BY	SUBMITTED BY		APPROVED BY			A
ww.clhae.com		ART GAPASIN		DARYL KITCHEN			
		PROJECT ENGINEER		MGR. ENGINEERING - LA			
Corp		DESIGNED KDL	ISSUED BY	DATE 02.04.2021	JCN	1004394	
		DRAWN KDL			A 4 0 F	REV	
FERENCE		CHECKED SJP	ENROUTE/FSS	ZLA-D-ARTCC-	A105		
		2		1			

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HH LOY	DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION ATO - TECHNICAL OPERATIONS WESTERN SERVICE ARTCC RECONFIGURE M1 ROOM							ERVICE AF	EA.		
Ģ	_				SECTIO	NS					
CHITECTS	PALM	IDALE		/	LOS ANGELES					CA	
484 Washington Blvd. ah 84401-2346 vw.clhae.com	REVIE	WED BY	ART GAPAS	SIN		DAF	RYL KITCHEN				A
<b>C</b>			PROJECT E	ENGINEER		MG	R. ENGINEERI	NG - LA			
COPP			DRAWN CHECKED	KDL KDL SJP	ENGINEERING SERVICE	s draw	02.04.2021 /ING NO A-D-ARTC	C- A3	02	1004394	
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![](_page_28_Figure_0.jpeg)

![](_page_28_Figure_4.jpeg)

![](_page_28_Picture_5.jpeg)

![](_page_29_Figure_0.jpeg)

REFLECTIVE

SIGNS NTS

7

(**A8**)

TEXT

-BRAILLE

7

COMMENTS

NO WORK IN THIS AREA

8

STAIR NO. 3

**SIGN WORDS** 

ROOM NUMBER

Η

SIGN SCHEDULE

7,5

SIGN TYPE

![](_page_29_Figure_1.jpeg)

Α

![](_page_29_Figure_4.jpeg)

В

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DOOR CENTER

TYPE 5

8

![](_page_29_Figure_5.jpeg)

6

5

4

6

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![](_page_29_Figure_7.jpeg)

**BUILDING A WORLD OF DIFFERENC** 

3

ENROUTE/FSS

SJP

CHECKED

2

![](_page_29_Figure_8.jpeg)

4

3

![](_page_30_Figure_0.jpeg)

![](_page_31_Figure_0.jpeg)

![](_page_32_Figure_0.jpeg)

![](_page_33_Figure_0.jpeg)

![](_page_34_Figure_0.jpeg)

						4	
3	THRESHOLD	GLAZING	HARDWARE GROUP	FIRE RATING	STC RATING	COMMENTS	5 1/2"
		60 GLASS	SEE SPECS	60 MIN	45		
		60 GLASS	SEE SPECS	60 MIN	45	PAIR OF HM DOORS	
-		TEMP	SEE SPECS	-	45		
-		-	SEE SPECS	-	-	PAIR OF WOOD DOORS	
-			SEE SPECS	-	45		
-			SEE SPECS	-	45		

![](_page_34_Figure_5.jpeg)

![](_page_34_Figure_6.jpeg)

![](_page_34_Picture_8.jpeg)

![](_page_35_Figure_0.jpeg)

ARCHITECTS ENGINEERS Case, Lowe & Hart, Inc. 2484 Washington Blvd. Suite 510 Ogden, Utah 84401-2346 801.399.5821 www.clhae.com E-Corp BUILDING A WORLD OF DIFFERENCE

# FIRE ALARM GEN NOTES

1. SCOPE OF WORK: WORK SHALL INCLUDE REMODEL/EXPANSION OF EXISTING FIRE ALARM SYSTEM THROUGHOUT TENANT IMPROVEMENT AREA. DESIGN AND INSTALLATION OF FIRE ALARM SYSTEM SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF NFPA 72 AND FAA STANDARDS.

2

- 3. QUALITY ASSURANCE: ALL NEW EQUIPMENT, MATERIAL AND DEVICES USED FOR THE FIRE ALARM SYSTEM EXPANSION SHALL BE UL LISTED AND/OR FM APPROVED FOR USE IN FIRE PROTECTION SYSTEMS. ALL INITIATING DEVICES SHALL BE LISTED COMPATIBLE WITH THE EXISTING FIRE ALARM CONTROL PANEL (FACP).
- 4. SUBMITTALS: FIRE ALARM SYSTEM CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS TO ALL AUTHORITIES HAVING JURISDICTION FOR REVIEW/APPROVAL PRIOR TO ORDERING OR INSTALLING ANY EQUIPMENT. SUBMITTALS SHALL CONFORM TO THE CONSTRUCTION DOCUMENTS
- 5. SYSTEM TYPE: FIRE ALARM SYSTEM SHALL MEET THE REQUIREMENTS FOR PROTECTED PREMISE FIRE ALARM SYSTEMS. SYSTEM PROVIDES OFF-PREMISE NOTIFICATION OF STATUS TO OFF-PREMISE FIRE ALARM RECEIVING STATION. FIRE ALARM SYSTEM SHALL TRANSMIT FIRE ALARM SIGNALS (WATER FLOW SWITCHES, MANUAL PULL STATIONS, WET CHEMICAL SYSTEM ACTIVATION AND SMOKE DETECTOR), SUPERVISORY SIGNALS (VALVE TAMPER SWITCHES AND DUCT SMOKE DETECTORS) AND TROUBLE SIGNALS TO OFF-PREMISE FIRE ALARM RECEIVING STATION VIA
- 6. WIRING/CONDUIT: ALL WIRING TO NEW. WIRING SHALL BE FREE OF OPENS, SHORTS AND GROUNDS. ALL WIRING SHALL BE INSTALLED IN RIGID, EMT OR FLEXIBLE CONDUIT. ALL PENETRATIONS THROUGH RATED PARTITIONS SHALL BE FIRE STOPPED WITH A SUITABLE CAULKING COMPOUND. ALL WIRING USED IN THE FIRE ALARM SYSTEM SHALL BE FPL (FIRE POWER LIMITED) WITH 300V INSULATION OR EQUIVALENT AS PER
- 7. WIRING STYLES (PER NFPA 72): INITIATING DEVICE CIRCUITS SHALL MEET THE REQUIREMENTS FOR CLASS A STYLE D, CIRCUITS. NOTIFICATION APPLIANCE CIRCUITS SHALL MEET THE REQUIREMENTS FOR CLASS A
- TESTING: CONTRACTOR SHALL SCHEDULE AND PERFORM ALL ACCEPTANCE TESTS REQUIRED BY NFPA 72. TESTING SHALL BE WITNESSED BY FAA AND/OR LOCAL FIRE DEPARTMENT.

# FIRE ALARM KEY NOTES

(1) EXISTING NOTIFICATION APPLIANCE POWER SUPPLY(S) (WHEELOCK POWERPATH) TO REMAIN. RECONFIGURE POWER SUPPLY(S) TO PROVIDE 24 VDC POWER TO NEW NOTIFICATION APPLIANCES INSTALLED AS PART OF TENANT IMPROVEMENT. INSTALL ADDITIONAL POWER SUPPLIES AS REQUIRED TO MEET CIRCUIT POWER REQUIREMENTS.

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- INSTALL NEW SMOKE DETECTORS BELOW CEILINGS 2 THROUGHOUT TENANT IMPROVEMENT AREAS OF MAIN FLOOR. DETECTORS SHALL BE COMPATIBLE WITH AND CONNECTED TO EXISTING FACP. UPDATE FACP PROGRAMMING AS REQUIRED.
- INSTALL NEW SMOKE DETECTORS BELOW SUB-FLOOR (J) ADDED IN CONTROL ROOM 1052. DETECTORS SHALL BE COMPATIBLE WITH AND CONNECTED TO EXISTING FACP. UPDATE FACP PROGRAMMING AS REQUIRED.
- INSTALL NEW FIRE ALARM PULL STATION AT EACH EXIT 4 INSTALL NEW FIRE ALARM FULL STATION AND LOSS DOOR FROM TENANT IMPROVEMENT AREA. WALL MOUNT BETWEEN 42" AND 48" AFF TO CENTER OF PULL STATION. PULL STATION SHALL BE COMPATIBLE WITH AND CONNECTED TO EXISTING FACP. UPDATE FACP PROGRAMMING AS REQUIRED.
- 5 INSTALL NEW FIRE ALARM NOTIFICATION APPLIANCE TO PROVIDE AUDIBLE AND/OR VISIBLE NOTIFICATION THROUGHOUT TENANT IMPROVEMENT AREA. CONNECT TO NEW OR EXISTING NOTIFICATION APPLIANCE POWER SUPPLIES IN MECHANICAL 105C. AUDIBLE AND VISIBLE SIGNALS SHALL BE SYNCHRONIZED.
- INSTALL STAGE 1 FIRE ALARM STROBES ON CEILING IN CONTROL ROOM. CONFIGURE STROBES TO ACTIVATE UPON ACTUATION OF ANY SINGLE SMOKE DETECTOR LOCATED ON CEILING IN MAIN FLOOR TENANT IMPROVEMENT AREA.
- (7) INSTALL STAGE 2 FIRE ALARM STROBE AND CHIME ON WALL IN CONTROL ROOM. CONFIGURE STROBE AND CHIME TO ACTIVATE UPON ACTUATION OF ANY HEAT DETECTOR OR PULL STATION LOCATED IN MAIN FLOOR TENANT IMPROVEMENT AREA.
- SMOKE DAMPER. SEE MECHANICAL PLANS FOR 8 LOCATION. INSTALL FIRE ALARM RELAY TO PROVIDE DAMPER ACTUATION. PROGRAM RELAY TO CLOSE DAMPER UPON ACTUATION OF ANY AREA SMOKE DETECTOR LOCATED IN AREA SERVED BY DAMPER.
- (9) APPROXIMATE LOCATION OF AIR HANDLER AHU-206. AREA SERVED BY AHU-206 IS PROTECTED THROUGHOUT BY SPOT TYPE SMOKE DETECTORS INSTALLED ON CEILING. INSTALL RELAY FROM FIRE ALARM SYSTEM TO SHUT DOWN AIR HANDLER UPON ACTUATION OF ANY SINGLE SMOKE DETECTOR IN AREA SERVED BY AHU-206.

![](_page_35_Figure_28.jpeg)

![](_page_36_Figure_0.jpeg)

ARCHITECTS ENGINEERS Case, Lowe & Hart, Inc. 2484 Washington Blvd. Suite 510 Ogden, Utah 84401-2346 801.399.5821 www.clhae.com E-Corp BUILDING A WORLD OF DIFFERENCE

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2

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![](_page_36_Figure_26.jpeg)

![](_page_37_Figure_0.jpeg)

- CODES AND STANDARDS: A. FAA FIRE LIFE SAFETY TECHNICAL IMPLEMENTATION GUIDANCE, 2017 SYSTEMS 2016 EDITION
- 2. THE DESIGN OF THE FIRE SPRINKLER SYSTEM CONTAINED ON THIS DRAWING IS CONCEPTUAL IN NATURE. THE LOCATIONS SHOWN ON THESE DRAWINGS FOR SPRINKLERS, PIPING AND OTHER FIRE PROTECTION EQUIPMENT ARE APPROXIMATE AND MUST BE ADJUSTED WHERE REQUIRED TO MATCH ACTUAL BUILDING CONDITIONS. THE FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS, DEVELOP THE FINAL DESIGN FOR FIRE SPRINKLER SYSTEM. PREPARE SHOP DRAWINGS. HYDRAULIC CALCULATIONS AND OBTAIN APPROVAL FROM AUTHORITY HAVING JURISDICTION.
- 3. FURNISH ALL MATERIALS, EQUIPMENT AND SUPPLIES AND PERFORM ALL WORK AND OPERATIONS TO REMODEL AND MAKE FUNCTIONAL THE EXISTING CYCLING TYPE PRE-ACTION FIRE SPRINKLER SYSTEMS TO PROTECT TENANT IMPROVEMENT AREAS. THE SYSTEM DESIGN SHALL MEET THE REQUIREMENTS OF FAA STANDARDS, NFPA 13 2016 EDITION AND BE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
- 4. FIRE SPRINKLER DESIGN DENSITIES: MECHANICAL, STORAGE, CBI LAB AND ATTIC SPACE -ORDINARY HAZARD GROUP 1. 0.15 GPM/SQ FT OVER 1,950 SQ FT WITH 250 GPM HOSE ALLOWANCE. ALL OTHER AREAS - LIGHT HAZARD. 0.10 GPM/SQ FT OVER 1,950 SQ FT WITH 100 GPM HOSE ALLOWANCE
- 5. MAXIMUM COVERAGE PER SPRINKLER HEAD. A. ORDINARY HAZARD: 130 SQ. FT. B. LIGHT HAZARD: 225 SQ. FT.
- 6. ALL DEVICES AND MATERIALS USED FOR THE INSTALLATION OF THE FIRE SPRINKLER SYSTEM SHALL BE U.L. LISTED AND/OR FM APPROVED FOR USE IN FIRE PROTECTION SYSTEMS.
- 7. NEW FIRE SPRINKLER PIPING SHALL BE STEEL PIPE CONFORMING TO ANSI/ASTM A53, ASTM A135 OR A795. PIPING SHALL BE DOMESTIC, BLACK STEEL, SCHEDULE 40 PIPING.
- 8. FITTINGS: A. PIPING 2" AND SMALLER IN NOMINAL DIAMETER SHALL BE JOINED WITH THREADED JOINTS USING CAST IRON FITTINGS AND COUPLINGS. B. PIPING 2-1/2" AND LARGER IN NOMINAL DIAMETER SHALL BE JOINED WITH ROLL GROOVED JOINTS USING RUBBER GASKETED VICTAULIC STYLE FITTINGS AND COUPLINGS. C. PLAIN END FITTINGS MAY NOT BE USED.
- 9. HANGERS: 1-1/4" AND SMALLER PIPE: MINIMUM ONE HANGER PER LENGTH OF PIPE AND MAXIMUM 12'-0" BETWEEN HANGERS.
- 1-1/2" AND LARGER: MINIMUM ONE HANGER PER LENGTH OF PIPE AND MAXIMUM 15'-0" BETWEEN HANGERS.
- 10. FIRE SPRINKLERS STANDARD ORIFICE (K-5.6), FACTORY WHITE, GLASS BULB, UPRIGHT OR PENDENT, ORDINARY TEMPERATURE RATED.
- 11. CONTRACTOR SHALL PREPARE AND SUBMIT COMPLETE SHOP DRAWINGS AND HYDRAULIC CALCULATIONS IN ACCORDANCE WITH NFPA 13 FOR REVIEW AND APPROVAL TO THE PROJECT ENGINEER AND THE FAA PRIOR TO ORDERING, FABRICATING OR INSTALLING ANY EQUIPMENT.
- THE FAA.

![](_page_37_Picture_17.jpeg)

# FIRE SPKR GEN. NOTES

1. THE FIRE SPRINKLER SYSTEM IS DESIGNED TO COMPLY WITH THE APPLICABLE PROVISIONS OF THE FOLLOWING

B. NFPA 13 INSTALLATION OF FIRE SPRINKLER

12. CONTRACTOR SHALL PERFORM ALL TESTING AND COMMISSIONING REQUIRED BY NFPA 13 AND NFPA 72 AND RECOMMENDED BY EQUIPMENT MANUFACTURERS. ALL TESTING SHALL BE WITNESSED AND APPROVED BY

APPROVED

DATE

REV

# FIRE SPKR KEY NOTES

- 1 EXISTING 4" FEED MAIN FROM PRE-ACTION FIRE SPRINKLER RISERS TO REMAIN
- 2 EXISTING 4" FIRE SPRINKLER CROSS MAIN TO REMAIN. LOCATION AND SIZE ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY.

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- EXISTING FIRE SPRINKLER SYSTEM IN ATTIC SPACE AND 3 EXISTING FIRE SPRINKLER STSTEM IN AND PORTIONS OF BUILDING NOT UNDERGOING TENANT IMPROVEMENT TO REMAIN.
- TENANT IMPROVEMENT TO OCCUR IN AREA SHOWN. DEMO, MODIFY, ADJUST AND/OR ADD FIRE SPRINKLERS AND PIPING AS REQUIRED TO ACCOMMODATE REMODEL AND ENSURE FIRE SPRINKLER PROTECTION THROUGHOUT AREA IN ACCORDANCE WITH NFPA 13. REFER TO ARCHITECTURAL PLANS TO DETERMINE SCOPE AND EXTENT OF REMODEL. COORDINATE WITH MECHANICAL AND ELECTRICAL SYSTEMS. LOCATIONS OF FIRE SPRINKLERS AND PIPING ON DRAWINGS IS APPROXIMATE AND SHOULD BE FIELD VERIFIED BY CONTRACTOR.
- EXISTING LOW POINT DRAIN FOR PRE-ACTION FIRE SPRINKLER SYSTEM TO REMAIN. FIELD LOCATE. PIPING SLOPES TO WEST END OF CROSS MAIN.

![](_page_37_Figure_32.jpeg)

ARCHITECTS PALMDALE ENGINEERS APPROVED BY SUBMITTED BY REVIEWED BY Α ART GAPASIN DARYL KITCHEN **PROJECT ENGINEER** MGR. ENGINEERING - LA E-Corp DESIGNED ISSUED BY DATE JCN 08.20.2021 1004394 GTJ ENGINEERING SERVICES DRAWN DRAWING NO NSS ZLA-D-ARTCC- FP103 ENROUTE/FSS CHECKED GTJ 2

![](_page_38_Figure_0.jpeg)

![](_page_38_Figure_29.jpeg)

![](_page_39_Figure_0.jpeg)

čсн Case, Lowe & Hart, Inc. 2484 Washington Blvd. Suite 510 Ogden, Utah 84401-2346 801.399.5821 www.clhae.com E-Corp BUILDING A WORLD OF DIFFERENCE

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![](_page_39_Figure_6.jpeg)

![](_page_40_Figure_0.jpeg)

![](_page_40_Figure_4.jpeg)

![](_page_41_Figure_0.jpeg)

	AIR HANDLING UNIT SCHEDULE																																							
						S		AIR FAN						CI	HILLED W	ATER CO	IL							НС	OT WATER C	JIL					FILTER	SECTION	1							
MARK	MANUFACTURER &	LOCATION	SERVICE	WEIGHT			FSP	FΔN		MOTOR	CAP	ACITY	EAT		LAT	FWT	ıwт		ΔΡΓ	WPD	FΔT	ΙΔΤ	FWT I	мт	CAPA				т	INITIAL	FINAL		INITIAL	FINAL	VOLT/	HZ	FLA	LRC	NOTES	5
	MODEL			(LB3)	CFM	CFM	(W.G.)	) RPM	BHP	HP	SENS.	TOTAL	DB (°F) (°F	B) DB (	°F) WB (°F)	(°F)	(°F)	GPM	ROWS IN W.	G. FT W.G.	(°F)	(°F)	(°F) (°	°F) G			VS W.G	. W.G.	' TYPE	APD IN W.G.	APD IN W.G.	TYPE	APD IN W.G.	APD IN W.G.	PHASE					
(E) AHU-700	MCQUAY VISION	1007	1ST FL. CONTROL WING	-	5460	1654	2	1750	8.09	10	235	245	86 63	50	49	45	55	50	6 0.95	6.7	31	96	180 1	60 1	13 15	3 1	0.05	3.1	30% PRE	0.63	1	65%	0.77	1.2	480/3	60	12.9	106 1,	2	
AHU-206	TEMTROL ITF	ATTIC	DSR EXPANSION AREA	2000	2000	200	1.2	1750	2.7	3		60	78	50		45	55	12			36	90	180 1	60 1	1.7 17	1			30% PRE		1	30%	0.28	0.901	480	60		3,	4	
NOTES.																																			1.					

1. INTERNAL STATIC PRESSURE SHALL INCLUDE OUTDOOR AIR LOUVER WITH BIRD SCREEN, OUTDOOR AND RETURN AIR DAMPERS, PRE- AND MAIN FILTERS, AND HEATING AND CHILLED WATER COILS. 2. MCQUAY VISION, DRAW-THROUGH, DANFOSS VFD, PREMIUM EFF. MOTOR (91.7%)

3. CUSTOM MADE TO MEET SPECIFICATIONS, WITH LOW FREQUENCY SOUND REDUCTION FOR QUIET OPERATION. PROVIDE WITH PREMIUM EFFICIENCY MOTOR (INVERTER RATED) AND VARIABLE FREQUENCY DRIVE (VFD) WITH BYPASS, ABB-ACH550. 4. AHU-206 SHALL BE CONSTRUCTED AS SEPARATE MODULES (DEMOUNT) SO IT CAN BE BROUGHT INTO M1 ATTIC WHICH HAS LIMITED ACCESS.

DUCT SEALING & INSULATION R-VALUE SCHEDULE											
	DUC	CT LOCATION									
DUCTITPE	EXTERIOR	UNCONDITIONED SPACE	SEAL CLASS								
SUPPLY	R-8	R-6	A								
RETURN	R-8	R-6	A								
EXHAUST	NONE	NONE									
NOTES:			1								

FOR THE INSULATION AS INSTALLED AND DO NOT INCLUDE AIR FILM RESISTANCE. PRESSURE SENSITIVE TAPE SHALL NOT BE USED AS THE PRIMARY SEALANT, INLESS IT HAS BEEN CERTIFIED TO COMPLY WITH UL-181A OR UL-181B BY AN INDEPENDENT TESTING LAB AND THE TAPE IS USED IN ACCORDANCE WITH THAT CERTIFICATION.

. SEAL CLASS A: SEAL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, & DUCT WALL PENETRATIONS

MECHANICAL	GENERAL	NOTES:	· · ·

1. ALL EQUIPMENT MANUFACTURERS SHOWN AS A BASIS OF DESIGN. NOT INTENDED TO SOLE SOURCE EQUIPMENT MANUFACTURER.

2. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST STATE ADOPTED EDITION OF THE INTERNATIONAL MECHANICAL CODE AND SMACNA.

3. MECHANICAL PLANS ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE THEIR WORK WITH OTHER TRADES AND ACTUAL JOB SITE CONDITIONS. CONTRACTOR TO FIELD VERIFY QUANTITIES AND DIMENSION.

4. CONTRACTOR TO PROVIDE ALL NECESSARY MATERIALS, DUCTWORK, HANGERS, FITTINGS, OFFSETS, INSULATION AND ACCESSORIES LOGICALLY REQUIRED FOR A COMPLETE FUNCTIONAL AIR DELIVERY SYSTEM.

5. DUCT DIMENSIONS ON DRAWING ARE INSIDE DIMENSIONS. MINIMUM DUCTWORK GAUGE TO BE 26 GUAGE.

6. CONTRACTOR SHALL COORDINATE ALL SUPPLY DIFFUSER PLACEMENTS.

7. ALL SQUARE ELBOWS IN SUPPLY AND RETURN DUCTWORK SHALL HAVE SINGLE THICKNESS TURNING VANES.

8. INSULATED FLEXIBLE DUCT NOT TO EXCEED 4 FEET IN LENGTH.

9. CONNECTIONS TO SUPPLY DIFFUSERS TO BE MADE WITH A RIDGED CONNECTION SO THAT CLEAR AND UNOBSTRUCTED AIRLFLOW IS ACHIEVED.

10. MOUNT BOTTOM OF THERMOSTAT 48 INCHES ABOVE FINISHED FLOOR. RUN WIRING FROM THERMOSTAT LOCATION TO AIR HANDLER AND TERMINATE TO PROVIDE FOR A FULLY FUNCTIONAL SYSTEM.

11. CONTRACTOR TO FURNISH FILTERS.

8

12. CONTRACTOR TO FURNISH AND INSTALL CONDENSATE P-TRAP ON ALL NEW AIR HANDLERS PER DETAILS SHOWN ON DRAWINGS.

13. ALL PIPING THAT COMES IN CONTACT WITH A DISSIMILAR METAL TO BE PROTECTED AGAINST GALVANIC CORROSION.

14. REMOTE CONCEALED CEILING CABEL CONTROL SYSTEM REQUIRED FOR ALL MANUAL VOLUME DAMPERS IN HARD LID CEILING APPLICATIONS.

15. SEISMIC SUPORTS ARE NOT REQUIRED FOR HVAC DUCTWORK IF DUCTS ARE SUSPENDED FROM HANGERS 12 INCH OR LESS IN LENGTH.

16. REFER TO STRUCTURAL DETAILS FOR ALL EQUIPMENT AND DUCT PENETRATIONS THROUGH ROOF. IF DETAIL IS NOT PRESENT THEN CONTACT ENGINEER.

17. ALL EXPOSED DUCTWORK TO HAVE ALL LABELS AND WRITING REMOVED FROM DUCT.

18. AFTER AIR AND HYDRONIC SYSTEM BALANCING HAS BEEN COMPLETED, MARK ALL BALANCING DAMPER AND BALANCING VALVES TO PERMANENTLY INDICATE FINAL POSITION; IE AN ARROW OR DRAWING AN OUTLINE OF BALANCING HANDLE POSTION.

19. FIELD VERIFY EQUIPMENT, DUCTWORK AND PIPING SIZES PRIOR TO START OF WORK. COORDINATE INSTALLATION WITH LOCATION OF EXISTING PIPING, DUCTWORK, CONDUITS, STRUCTURE AND OTHER EXISTING EQUIPMENT.

MARK CONDITION VAV-1 EXISTING, NEW CFM VAV-2 EXISTING, NEW CFM VAV-3 EXISTING, NEW CFM VAV-4 EXISTING, NEW CFM VAV-5 EXISTING VAV-6 EXISTING VAV-7 EXISTING VAV-8 EXISTING EXISTING VAV-9 VAV-10 EXISTING

SPONSIBLE FOR FIRE PROTECTION DURING WELDING OR EMPORARY FIRE EXTINGUISHERS AND FIRE WATCH DURING DING WORK W/C.O.R. AS REQUIRED BY DIVISION

SOLATION OF EQUIPMENT, DUCTWORK AND PIPING SEE

ED PER MANUFACTURER'S RECOMMENDATIONS AND

BE INSULATED. FOR INSULATION REQUIREMENTS, REFER

AT PIPE PENETRATIONS AND ABANDONED HOLES THROUGH OF SEALANT SHALL BE EQUAL TO OR EXCEED RATING OF FIRE RATED ASSEMBLY. PROVIDE UL APPROVED FIRE RATED SEALANT.

26. ELECTRICAL DEMOLITION AND INSTALLATION SHALL BE IN ACCORDANCE WITH ELECTRICAL DRAWINGS AND DIVISION 16 SPECIFICATIONS. PROVIDE SEISMIC RESTRAINTS AND VIBRATION ISOLATION FOR NEW EQUIPMENT, DUCTWORK, AND PIPING PER DIVISION 23 SPECIFICATION, "VIBRATION AND SEISMIC CONTROLS FOR HVAC".

27. LOCATIONS, SIZES, CLEARANCES AND CONFIGURATIONS OF EQUIPMENT SHOWN ARE BASED ON SPECIFIC SCHEDULED MANUFACTURERS AND MODEL NUMBERS. SUBSTITUTION OF SUCH EQUIPMENT MANUFACTURERS WILL REQUIRE THE CONTRACTOR'S PRIOR VERIFICATION OF CONFORMANCE PER THE REQUIREMENTS OF LOCATION, SIZE CLEARANCES AND CONFIGURATION AS COMPARED TO THE SPACE ALLOCATED TO HOUSE THE SPECIFIC EQUIPMENT. CONTRACTOR SHALL RESUBMIT THE PROPOSED EQUIPMENT TO THE CONTRACTING OFFICER TECHNICAL REPRESENTATIVE (COR) FOR APPROVAL, PRIOR TO INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL WORK, MATERIALS, ETC. REQUIRED AS A RESULT OF SUBSTITUTIONS. THE CONTRACTOR SHALL NOT BE COMPENSATED FOR ADDITIONAL COST OR TIME RESULTING FROM THE SUBSTITUTION OF MATERIALS OR EQUIPMENT.

28. FACILITY CONTAINS HAZARDOUS MATERIALS.

29. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

30. ALL AIRFLOW RATES SHOWN (CFM) ARE ACTUAL AIRFLOWS (ADJUSTED FOR ELEVATION).

31. DESIGN AND PROVIDE MINIMUM VENTILATION AS FOLLOWS DURING ALL PHASES OF CONSTRUCTION: 12,000 CFM (INDUSTRIAL VENTILATION FAN) AT 3" EXTERNAL STATIC PRESSURE. USE EXISTING WEST LOUVERS (EAST END) FOR EXHAUST. REMOVE TEMPORARY VENTILATION AND BLANK OFF LOUVERS AFTER COMPLETION OF CONSTRUCTION. PROVIDE ADDITIONAL VENTILATION IF REQUIRED FOR SPECIFIC ACTIVITIES CREATING ODORS, DUST, OR HAZARDOUS FUMES.

32. ALL EXISTING STRUCTURAL AND MISCELLANEOUS STEEL AND GRATINGS CONTAIN LEAD PAINT, APPROXIMATELY 60%. REFER TO SPECIFICATION SECTION 028050, "LEAD COATING WORK PRACTICES" FOR MORE INFORMATION.

6

20. INSTALLATION SHALL PROVIDE F ACCESS DOORS SHALL BE INSTALLE ACCESS.
21. DESIGNATE A PERSON TO BE RE CUTTING OPERATIONS. PROVIDE TH CONSTRUCTION. COORDINATE WEL SPECIFICATIONS.
22. FOR SUPPORT AND VIBRATION IS SPECIFICATIONS AND DRAWINGS.
23. EQUIPMENT SHALL BE INSTALLE INSTRUCTIONS.
24. SUPPLY AIR DUCTWORK SHALL I TO SPECIFICATION.
25. PROVIDE FIRE RATED SEALANT A

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## AIR HANDI ING LINIT SCHEDI II F

VAV TERMINAL SCHEDULE																
MANUFACTURER VAV SYSTEM SERVES IN ET SIZE NOMINAL DESIGN DESIGN DISCH NC WO HOT WATER HEATING COIL																
& MODEL	SERVICE	ROOMS(S)	(IN)	CFM RANGE	MAX CFM (COOLING)	MIN CFM (HEATING)	WIDE OPEN	∆Ps	MBH	GPM	WPD MAX ("H20)	COIL CONN. (IN)	EAT (°F)	LAT (°F)	ROWS	NOTES
TITUS DESV	AHU-700	1051E, 1051F, 1051G, 1051Q	.7	70-650	650	173	28	0.7	6.6	1.0	2.0	1/2	53	92.8	1	SOUND ATTENUATOR
TITUS DESV	AHU-701	1051D	5	40-350	175	40	25	0.7	1.6	1.0	2.0	1/2	53	95.1	1	SOUND ATTENUATOR
TITUS DESV	AHU-702	1051B		40-350	150	40		0.7	1.4	1.0	· · · · 2.0· · · · · ·	1/2	53	95.1	···· <b>1</b> ·····	SOUND ATTENUATOR
TITUS DESV	AHU-703	1051A	7	70-650	520	114	28	0.7	4.8	1.0	2.0	1/2	53	95.1	1	SOUND ATTENUATOR
TITUS DESV	AHU-704	1051N	8	90-900	780	252	28	0.7	7.9	1.0	2.0	1/2	53	90.0	1	SOUND ATTENUATOR
TITUS DESV	AHU-705	1051M	9	120-1050	780	213	28	0.7	7.8	1.0	2.0	1/2	53	90.1	1	SOUND ATTENUATOR
TITUS DESV	AHU-706	1051Q	7	70-650	350	132	25	0.7	4.2	1.0	2.0	1/2	53	90.0	1	SOUND ATTENUATOR
TITUS DESV	AHU-707	1051J, 1051K, 1051L, 1051O	7	70-650	630	212	25	0.7	6.7	1.0	2.0	1/2	53	90.0	1	SOUND ATTENUATOR
TITUS DESV	AHU-708	1051	10	145-1400	1000	390	28	0.7	10.3	1.0	2.0	1/2	53	90.0	1	SOUND ATTENUATOR
TITUS DESV	AHU-709	1051H, 1051I, 1051O	. 6	45-500	455	88.	25	0.7	2.8	1.0	2.0	1/2	53	90.0	.1	SOUND ATTENUATOR

## READY ACCESS TO DAMPERS, COILS AND OTHER DEVICES. ED TO PROVIDE ADEQUATE CLEARANCES FOR DIRECT

		<b>GRILLE, REGISTER &amp; DIFFUSER SCHEDULE</b>														
RK	MANUFACTURER & MODEL	DESCRIPTION	MATERIAL	FINISH	FRAME	MAX NC	MAX CFM	NECK SIZE	MODULE SIZE							
-1	TITUS TMS	CEILING DIFFUSER	STEEL	#26 WHITE	LAY-IN	15	152	6	24x24							
-2	TITUS TMS	CEILING DIFFUSER	STEEL	#26 WHITE	LAY-IN	20	289	8	24x24							
-3	TITUS TMS	CEILING DIFFUSER	STEEL	#26 WHITE	LAY-IN	20	534	12	24x24							

STEEL

		· · · · · · · · · · · · · · · · · · ·	IN-LI	NE SI	JPPLY F/	AN SC	HEDULE			·····	
					STATIC		SOUND	ELEC	TRICAL	WEICHT	
MARK	MODEL	DESCRIPTION	AREA SERVED	CFM	PRESS. (IN WC)	RPM	RATING (dBA)	HP	VOLTS/ PHASE	(LBS)	NOTES
SF-1	GREENHECK CSP-A390	IN-LINE	FLIGHT DATA RACK	350	1/4	1350	41	0.07	115/1	23	1
NOTES:				<u> </u>							

#26 WHITE LAY-IN N/A N/A N/A 24x24

1. LOCATED BELOW THE RAISED FLOOR IN THE CONTROL ROOM

RETURN

GRILLE

RG-1

TITUS 50NT

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QTY	NOTES									
12	3 CONE FACE									
17	3 CONE FACE									
4	3 CONE FACE									
18	1/2" SQUARE EGG CRATE									

MECHAN	
SYMBOL	DESCRIPTION
S	LIQUID REFRIGERANT SUCTION REFRIGERANT
OR	MANUAL VOLUME CONTROL DAMPER
	EXHAUST AIR DUCT - UP / DOWN
	RETURN/OUTSIDE AIR DUCT - UP / DOWN
	SUPPLY AIR DUCT - UP / DOWN
	MITERED ELBOW W/ TURNING VANES
<u>∭</u> OR <del>////  </del> ∃	FLEX DUCT (MAX. LENGTH 4 FT.) BLIND FLANGE OR CAP
<del></del>	PIPING DOWN
0	PIPING UP
<del></del>	PIPING TEE DOWN
	FLANGE
	UNION PUMP
$\stackrel{\widetilde{\oplus}}{\bigcirc}$	THERMOSTAT EQUIPMENT SYMBOL
(DET#) SHT#/	DETAIL SYMBOL
$\langle \mathbf{x} \mathbf{x} \rangle$	SHEET KEYNOTE
€ ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	POINT OF CONNECTION POINT OF DISCONNECTION AIRFLOW DIRECTION ABOVE FINISH FLOOR EXISTING NOT IN CONTRACT
N.O.	NORMALLY OPEN
N.C. TYP	NORMALLY CLOSED TYPICAL

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nater				REC	A ONFIG		/11 ROC	DM				
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CHITECTS	PAL	MDALE		1997 - Landard Barrison, 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19	LOS A	NGELES C	ſR	<sup>1</sup> 8			CA	
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M1	FURNI SENSC SCHEI VAV-1	SH ANI DR PD-2 DULE F THRU	D INSTA 2 TO NE OR DET VAV-10 S	LL NEW W SHO' AILS. S SERVE	/ DDC C WN LOC EQUEN( AHU-70 <sup>/</sup>	ONTROL CATION. S CE OF OF 0.	POINTS FC SEE CONTR PERATIONS	OR VAV UNIT OL DIAGRAN ARE PROVI	S. RELOCATE IS AND DDCP DED IN MECH,	AHU-700 PRES POINT FUNCT ANICAL SPECI	SSURE ION FICATIONS.	
M2	FURNI SYSTE LOCAT	SH ANI M. The Tons S	D INSTAI ERMOST SHALL B	LL NEW ATS AF E COOF	/ THERM RE TO BI RDINATI	IOSTATS E MOUNT ED WITH	5. INTEGRA <sup>-</sup> FED AT LEA COR	TE NEW THE ST 4 FEET A	RMOSTATS W BOVE FINISHE	ITH EXISTING ED FLOOR. AC	JCI DDC TUAL	
M3	COOR		E NEW D		ESIGNA			COR.				
M4	ABOVE	NNECT E MECH	1051C	VITH FL SHALL	BE SEIS	CONNEC	TION, SIZE	ROM ABOVE	E. DUCTS ABO	JIREMENTS. L DVE THE MEZZ	JUCTS ANINE	
M5	SHALL THIS E THE C THROU THE D THE FI	BE SE XHAUS ENTER JGH TH UCTLIN NAL EN	ISMICAL St duct Of the He wall Ne. Coo Nd Poin	LY BRA LINE IS RAMPS FURN RDINAT T OF TI	ACED FF S LOCAT S WITH IISH ANI IE THE I HIS DUC	ROM BEL TED BELC AN 8" DIA D INSTAL LOCATIO CTLINE.	OW. OW THE RA A DUCT. SE L AN INLINE N OF THE F	ISED FLOOR AL THE PENI E FAN SET A LIGHT DATA	. PENETRATE TRATION TO I 350CFM 6-10 RACK WITH 1	THE WALL UN MINIMIZE AIR OFT FROM THE THE COR TO D	IDERNEATH FLOW END OF ETERMINE	
M6	DUCTV	VORK	SHOWN	IS LOC	ATED A	BOVE TH	E FIRST FL	OOR ACOUS	TIC CEILING.			
M7 M8	CLEAN	I ENTIF	RE RETU	RN AIR	L, OUTSI	DE AND S		R DUCT RUN	S BACK TO (E THE NEW CEM	) AHU-700. 1 VALUES		
M9	EXTEN		ITROL, F	POWER	, AND C		FOR RETUR	RN AIR CONT	ROL DAMPER	ACTUATOR.		-
M10	AFMS-	1 SHAL	L BE 6"		NUM LO-	-FLO PIT		SE STATION	MFD BY AIR I	MONITOR COR	P.	
M11 M12	ROUTE PROVI	DUCI	AS HIG	H AS P R GRII				ANSITIONS I	O MISS OBST	RUCTIONS, LY	P ALL DUCT.	
M13	GWB F		IG. FEXISTI				JPPER 45° E		ROTATE135°.	EXISTING RET		
	FOR D			ZZANIN	IE TO FL		CONNECTIO	ON.	JUUI. JEIJM			
M14	COOR	DINATE	E WITH C	SWB FR	AMING	TO FRAM		DUCT. SEA	DUCT PENE	TRATION TO V	VALL.	
M15 M16	PROVI	Dinate De gr	E AHU-20 AVITY S		ATION F	OR MAIN	TENANCE A	ACCESS AND		AL ACCESS.		
M17	DESIG FURNI	N COO	RDINAT		H MANU	JFACTUR	SPECIFIC LO	DCATIONS O	ATION. F PIPE LAYOU	IT SHALL BE S		-
	AND IN	ISULA1	FE ALL P	IPING F	PER ME	CHANICA	L SPECIFIC	ATIONS.		ARRANGEMEN	T. INSTALL	
M18	PIPING	SHOV	VN ARE	LOCATI	ED ON N	NEW MEZ	ZANINE DE	CK.				
M19 M20	REFER		ETAIL F2		VAV RE-				L. DOE STRUCTI		· · · · · · · · · · · · · · · · · · ·	
/120	NECES	SARY	SEISMIC	BRAC	ING ANI	D VIBRAT	ION ISOLA	ED FROM R FION.				
M21	PIPINO 1" PIPE 1/2" CO	GATAH SIZE ONTRO	IU SHAL FOR HO L VALVE	L BE PE T WATE E & 1/2"	ER DETA ER MANI BALAN(	AIL B5/M5 IFOLD PII CE VALVE	501 FOR HO PING AND 1 E (cv=2.5 FC	T WATER & -1/4" FOR CH R BALANCE	DETAIL B8/M5 IILLED WATEF VALVE) FOR I	01 FOR COLD R MANIFOLD P HOT WATER. L	WATER. USE IPING. USE JSE 3/4"	
M22	PROVI	DE U.L	. RATED	FIRE S		LVE (CV=2	RIAL OR AS	SEMBLY AT	E) FOR CHILL	ED WATER. ATION IN WAL	LON	
	GRIDL	INE 'M'										
M23	TIE IN LESS S ONE N FEET L	TO AND STEEL EW WA LONG S	D EXTEN PROVID ATERPRO SENSING	d drai E conn Oof df G cable	N PAN 1 NECTION RAIN PA E WITH (	TO NEW L N TO EXIS N. SLOPE CONNEC	LINE GRIDL STING DRA E TO EXISTI TOR KIT; C	ine 'm' wall In pan so t Ng drain p Onnect to	NEW DRAIN HAT EXISTING AN. PROVIDE EXISTING LEA	PAN SHALL BE AND NEW SE TRACETEK TT K DETECTION	E 18g STAIN CTION FORM 1000 X 25 I CABLE IN	
M24	INSTA		AIN PAN	I. (F DAM	PFR AS	REQUIR	ED PER SM		IFPA I OCATE	B/W STUDS		
M25	DUCTV	VORK I	EAST OF	GRIDL	INE 'M'	REQUIRE	ES SEISMIC	BRACING.		····	· · ·	
M26	CUT H	ole in	PLATE	COVER	ING EXI	STING LO	OUVER TO	CONNECT O	SA DUCT. SE	AL PENETRAT	ION.	
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	MECH	IANICAL KEYED NO	DTES	
MARK	NOT	E (all notes may not appear o	n this sheet)	
M1	FURNISH AND INSTALL NEW DDC CO SENSOR PD-2 TO NEW SHOWN LOC SCHEDULE FOR DETAILS. SEQUENO VAV-1 THRU VAV-10 SERVE AHU-700	ONTROL POINTS FOR VAV UN ATION. SEE CONTROL DIAGR E OF OPERATIONS ARE PRC ).	ITS. RELOCATE AHU-700 PRESSURE AMS AND DDCP POINT FUNCTION VIDED IN MECHANICAL SPECIFICATIONS.	ŀ
M2	FURNISH AND INSTALL NEW THERM SYSTEM. THERMOSTATS ARE TO BE LOCATIONS SHALL BE COORDINATE	OSTATS. INTEGRATE NEW TI MOUNTED AT LEAST 4 FEET D WITH COR	HERMOSTATS WITH EXISTING JCI DDC ABOVE FINISHED FLOOR. ACTUAL	
М3	COORDINATE NEW DDCP DESIGNAT	ION NUMBER WITH COR.	·	
M4	RECONNECT DUCT WITH FLEXIBLE ABOVE MECH 1051C SHALL BE SEIS SHALL BE SEISMICALLY BRACED FR	CONNECTION, SIZED TO MEE MICALLY BRACED FROM ABC OM BELOW.	T SEISMIC REQUIREMENTS. DUCTS IVE. DUCTS ABOVE THE MEZZANINE	
т. M5	THIS EXHAUST DUCT LINE IS LOCAT THE CENTER OF THE RAMPS WITH THROUGH THE WALL. FURNISH AND THE DUCTLINE. COORDINATE THE L THE FINAL END POINT OF THIS DUC	ED BELOW THE RAISED FLO AN 8" DIA DUCT. SEAL THE PE INSTALL AN INLINE FAN SET OCATION OF THE FLIGHT DA TLINE.	OR. PENETRATE THE WALL UNDERNEATH ENETRATION TO MINIMIZE AIR FLOW AT 350CFM 6-10FT FROM THE END OF TA RACK WITH THE COR TO DETERMINE	C
M6	DUCTWORK SHOWN IS LOCATED AE	BOVE THE FIRST FLOOR ACO	USTIC CEILING.	
M7	CLEAN ENTIRE RETURN AIR, OUTSI	DE AND SUPPLY AIR DUCT RU	JNS BACK TO (E) AHU-700.	
M8	REBALANCE AND REPROGRAM RET	URN AIR AND OUTSIDE AIR T	O THE NEW CFM VALUES.	
M9	EXTEND CONTROL, POWER, AND CO	UNDULL FOR RETURN AIR CO		
M11	ROUTE DUCT AS HIGH AS POSSIBLE		STO MISS OBSTRUCTIONS TYPALL DUCT	
M112	PROVIDE RETURN AIR GRILLE IN WA	ALL AND AIRTIGHT SEAL AT W	VALL PENETRATION. COORDINATE WITH	
M13	DISCONNECT EXISTING RETURN DU CONTROL DAMPER AND ACTUATOR FOR DUCT FROM MEZZANINE TO FL	ICT AT UPPER 45° ELBOW AN TO BE RELOCATED WITH TH EXIBLE CONNECTION.	D ROTATE135°. EXISTING RETURN AIR E DUCT. SEISMIC BRACING REQUIRED	F
M14	COORDINATE WITH GWB FRAMING	TO FRAME AROUND DUCT. SI	EAL DUCT PENETRATION TO WALL.	
M15	COORDINATE AHU-206 LOCATION F	OR MAINTENANCE ACCESS A	ND COIL REMOVAL ACCESS.	
M16	PROVIDE GRAVITY SUPPORTS & SE DESIGN COORDINATED WITH MANU	ISMIC BRACING OF UNIT IN A FACTURERS SEISMIC CERTIF	TTIC. PROVIDE STAMPED ENGINEERING	_
M17	FURNISH AND INSTALL PIPING AS SI FOR APPROVAL TO THE COR. SHOP AND INSULATE ALL PIPING PER MEC	HOWN. SPECIFIC LOCATIONS DRAWINGS SHALL BE REQU CHANICAL SPECIFICATIONS.	OF PIPE LAYOUT SHALL BE SUBMITTED IRED FOR PIPE ARRANGEMENT. INSTALL	
M18	PIPING SHOWN ARE LOCATED ON N	EW MEZZANINE DECK.		
M19 M20	REFER TO DETAIL F2/M501 VAV RE-I AHU-206 AND ASSOCIATED PIPING S NECESSARY SEISMIC BRACING AND	HEAT COIL CONNECTION DET	TAIL. ROOF STRUCTURE. PROVIDE	E
M21	PIPING AT AHU SHALL BE PER DETA 1" PIPE SIZE FOR HOT WATER MANI 1/2" CONTROL VALVE & 1/2" BALANCE CONTROL VALVE & 1" BALANCE VAL	IL B5/M501 FOR HOT WATER FOLD PIPING AND 1-1/4" FOR E VALVE (cv=2.5 FOR BALANC VE (cv=2.5 FOR BALANCE VA	& DETAIL B8/M501 FOR COLD WATER. USE CHILLED WATER MANIFOLD PIPING. USE CE VALVE) FOR HOT WATER. USE 3/4" LVE) FOR CHILLED WATER.	
M22	PROVIDE U.L. RATED FIRE STOPPIN GRIDLINE 'M'.	G MATERIAL OR ASSEMBLY A	AT PIPE PENETRATION IN WALL ON	
M23	TIE INTO AND EXTEND DRAIN PAN T LESS STEEL PROVIDE CONNECTION ONE NEW WATERPROOF DRAIN PAN FEET LONG SENSING CABLE WITH C EXISTING DRAIN PAN.	O NEW LINE GRIDLINE 'M' WA I TO EXISTING DRAIN PAN SC I. SLOPE TO EXISTING DRAIN CONNECTOR KIT; CONNECT 1	ALL. NEW DRAIN PAN SHALL BE 18g STAIN O THAT EXISTING AND NEW SECTION FORM I PAN. PROVIDE TRACETEK TT1000 X 25 TO EXISTING LEAK DETECTION CABLE IN	
M24	INSTALL FIRE / SMOKE DAMPER AS	REQUIRED PER SMACNA ANI	O NFPA LOCATE B/W STUDS.	
M25	DUCTWORK EAST OF GRIDLINE 'M' F	REQUIRES SEISMIC BRACING	· · · · · · · · · · · · · · · · · · ·	
M26	CUT HOLE IN PLATE COVERING EXIS	STING LOUVER TO CONNECT	OSA DUCT. SEAL PENETRATION.	
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nater				REC	A ONFIG		/11 ROOM				
ORM EXPIRES: 09/30/2023				MEZZA	ANINE M	ИЕСНА	NICAL PLA		·		
CHITECTS	PAI	MDALE		1997 - Angeler Angeler († 1997) 1997 - Angeler Angeler († 1997) 1997 - Angeler Angeler († 1997)	LOS A	ANGELES CT	TR			CA	
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1947 				MECH	ANICAL KE	EYED NOTES	S	•••••		]	I
	MARK			NOTE	all notes may	not appear on this s	heet)				I
	M1 FU SI SU	JRNISI ENSOF CHEDU	H AND INSTALL R PD-2 TO NEW 3 JLE FOR DETAIL	NEW DDC CO SHOWN LOCA .S. SEQUENCE	NTROL POINTS TION. SEE CON E OF OPERATION	FOR VAV UNITS. RI IROL DIAGRAMS A NS ARE PROVIDED	ELOCATE AHU-7 ND DDCP POINT IN MECHANICA	'00 PRESS [ FUNCTIC L SPECIFI	SURE DN CATIONS.		ŀ
	M2 FI S`	JRNISI YSTEM DCATIO	HAND INSTALL I. THERMOSTAT	NEW THERMO S ARE TO BE	DSTATS. INTEGR MOUNTED AT LI D WITH COR	ATE NEW THERMC EAST 4 FEET ABOV	OSTATS WITH EX E FINISHED FLC	(ISTING JOR. ACTL	CI DDC JAL	_	1
	M3 C		NATE NEW DDC			TH COR.					
	M4 RI Al	BOVE I HALL B	MECH DUCT WIT MECH 1051C SH E SEISMICALLY	A FLEXIBLE C ALL BE SEISM BRACED FRO	IONNECTION, SI AICALLY BRACEI OM BELOW.	FROM ABOVE. D	UCTS ABOVE TH	IE MEZZA	NINE		l
14.	TI TI TI TI TI	HIS EX HE CEN HROU( HE DU( HE FIN	HAUST DUCT LI NTER OF THE R. 3H THE WALL. F CTLINE. COORD AL END POINT (	NE IS LOCATE AMPS WITH A URNISH AND UNATE THE LO DF THIS DUCT	ED BELOW THE I N 8" DIA DUCT. S INSTALL AN INLI DCATION OF THE 'LINE.	RAISED FLOOR. PE SEAL THE PENETRA NE FAN SET AT 350 E FLIGHT DATA RAG	NETRATE THE A ATION TO MINIM OCFM 6-10FT FR CK WITH THE CO	Vall Und IIZE AIR FL Om the E Or to de <sup>-</sup>	DERNEATH LOW END OF TERMINE		(
	M6 D		ORK SHOWN IS		OVE THE FIRST			700		-	I
	M8 R	EBALA	NCE AND REPR	OGRAM RETU	JRN AIR AND OU	TSIDE AIR TO THE	NEW CFM VALU	<u>/00.</u> JES.		-	1
	M9 E2	XTEND	CONTROL, PO	WER, AND CO	NDUIT FOR RET	URN AIR CONTROL	DAMPER ACTU	JATOR.			
	M10 AI	FMS-1	SHALL BE 6" AL			ERSE STATION MFI	D BY AIR MONIT	OR CORP			1
	M11 R M12 Pl G	ROVID WB FR	E RETURN AIR ( AMING.	GRILLE IN WA	LL AND AIRTIGH	T SEAL AT WALL PI	ENETRATION. C	OORDINA	TE WITH		1
, 1997 1997 1997	M13 D F(	ISCON ONTRO OR DU	NECT EXISTING DL DAMPER AND CT FROM MEZZ	ACTUATOR	CT AT UPPER 45 TO BE RELOCAT EXIBLE CONNEC	° Elbow and Rot. Ed with the duc Tion.	ATE135°. EXISTI T. SEISMIC BRA	NG RETUI	RN AIR QUIRED		
	M14 C		NATE WITH GW		O FRAME AROU	ND DUCT. SEAL DU			LL.		I
	M15 C	ROVID	E GRAVITY SUP	PORTS & SEIS	SMIC BRACING (	F UNIT IN ATTIC. F	ROVIDE STAMF	PED ENGIN	NEERING		I
	M17 FU	ESIGN JRNISI OR API	COORDINATED H AND INSTALL PROVAL TO THE	WITH MANUF PIPING AS SH COR. SHOP I	ACTURERS SEIS IOWN. SPECIFIC DRAWINGS SHA	SMIC CERTIFICATIONS OF PILL BE REQUIRED F	DN. PE LAYOUT SHA OR PIPE ARRAN	ALL BE SU	BMITTED . INSTALL	-	
	Al M18 Pl		ULATE ALL PIPI	NG PER MECH	HANICAL SPECIF	ICATIONS.					1
	M10 P1	EFER 1	TO DETAIL F2/M	501 VAV RE-H	IEAT COIL CONN	ECTION DETAIL.				-	I
	M20 AI	HU-206 ECESS	AND ASSOCIA	TED PIPING SI RACING AND	HALL BE SUPPO VIBRATION ISOL	RTED FROM ROOF ATION.	STRUCTURE. P	ROVIDE			
i der Stati	M21 PI 	PING / PIPE ( 2" Con Ontro Rovidi	AT AHU SHALL E SIZE FOR HOT V ITROL VALVE & DL VALVE & 1" B E U.L. RATED FI	BE PER DETAI VATER MANIF 1/2" BALANCE ALANCE VALV RE STOPPING	L B5/M501 FOR I OLD PIPING ANI E VALVE (cv=2.5 /E (cv=2.5 FOR B G MATERIAL OR /	OT WATER & DETA 1-1/4" FOR CHILLE FOR BALANCE VAL ALANCE VALVE) F( ASSEMBLY AT PIPE	AIL B8/M501 FOI ED WATER MAN VE) FOR HOT W OR CHILLED WA E PENETRATION	R COLD W. IFOLD PIP /ATER. US /TER. I IN WALL	ATER. USE ING. USE E 3/4" ON	_	
	G M23 TI LE	RIDLIN E INTC ESS ST	e 'm'. ) and extend i Teel provide (	DRAIN PAN TO	D NEW LINE GRI	DLINE 'M' WALL. NE Rain Pan So That	W DRAIN PAN S EXISTING AND	HALL BE '	18g STAIN TION FORM	-	
	O FE E2	NE NE EET LC XISTIN	W WATERPROC NG SENSING C G DRAIN PAN.	of Drain Pan Able With Co	. SLOPE TO EXIS ONNECTOR KIT;	CONNECT TO EXIS	PROVIDE TRACI		000 X 25 CABLE IN		· r
	M24 IN M25 D M26 C	UCTWO UT HO	FIRE / SMOKE ORK EAST OF G LE IN PLATE CO	DAMPER AS R RIDLINE 'M' R VERING EXIS	EQUIRED PER S EQUIRES SEISM TING LOUVER T	MACNA AND NEPA IC BRACING. D CONNECT OSA D	UCT. SEAL PE	NETRATIC	DN.	-	L
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Case, Lowe & Hart, Inc. 2484 Washington Blvd. Suite 510 Ogden, Utah 84401-2346	REVIEWED BY			AFFROVED BI	
801.399.3821 www.cinae.com		ART GAPASIN		DARYL KITCHEN	
		PROJECT ENGINEER		MGR. ENGINEERING -	LA
E-Corp		DESIGNED MTS	ISSUED BY	DATE 02.04.2021	JCN
<b>-r</b>		DRAWN GM, JAC	ENGINEERING SERVICES		
BUILDING A WORLD OF DIFFERENCE		CHECKED MTS	- ENROUTE/FSS	ZLA-D-ARTCC-	M103

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POINT DESCRIPTION				H	ARDV	VARE				FA	IL MOD	E									SO	FTWA	RE									GRA	PHICS	S	LIMI	TS	NOTE	5			
	DEVICE CODE	SUPERVISED WIRING	ANALOG INPUT	ADDRESSABLE INPLIT	ACCUMULATOR INPUT	ANALOG OUTPUT	2 STATE DIGITAL OUTPUT	3 STATE DIGITAL OUTPUT	ADDRESSABLE OUTPUT	FAIL ON (UPEN)	FAIL UFF (CLUSED) LAST COMMAND STATE	LOCAL DEFAULT	NETWORKED POINT	CALCULATED POINT	MAINTENANCE ALARM		PROGRAM START (STOP)	OPTIMUM START (STOP) MORNING WARM/COOI			DUTY CYCLE	ENTHALPY ECONOMIZER	DIRECT DIGITAL CONTROL	TOTALIZER	R IN TIME	LIGHTING CONTROL	TENANT BILLING	ALARM INSTRUCTIONS	MAINTENANCE WORK ORDER	ALARM LIMITS	INTERLOCKS (SEE SEQUENCE) 2-D GRAPHICS	3-D GRAPHICS	FLOOR PLAN	POINT LIST	LOW ALARM LIMIT	HIGH ALARM LIMIT					
VAV BOX (TYPICAL)																															•		•	•			TYPIC	AL FOR	7, NOTE	E 2	
SPACE TEMPERATURE SENSOR	Т		•												•													•		•				6	5°F 8	85°F	TYPIC	AL FOR	7, NOTE	E 2	
DAMPER CONTROL	CD					•					•								•				•														TYPIC	AL FOR	7, NOTE	E 2	
REHEAT COIL VALVE CONTROL	CV					•					•								•				•														TYPIC	AL FOR	6, NOTE	2	
VAV AIRFLOW CFM	PD		•												•													•		•				S	EE S	SCH	TYPIC	AL FOR	7, NOTE	2	
AHU-206																															•		•	•							
RETURN AIR TEMPERATURE	TS-1		•																																						
RETURN AIR HUMIDITY	HS-1		•																																						
OUTDOOR AIR VOLUME	AF-1		•													•													•		•						NOTE	6			
RETURN AIR DAMPER CONTROL	CD-1					•				•													•																		
OUTDOOR AIR DAMPER CONTROL	CD-2					•					•												•																		
FILTER DIFFERENTIAL PRESSURE	DP-1		•	,											•														•												
OSA FILTER DIFFERENTIAL PRESSURE	DP-2		•	,											•														•												
MIXED AIR TEMPERATURE	TS-2		•													•													•		•										
HOT WATER CONTROL VALVE	CV-1					•				•													•																		
CHILLED WATER CONTROL VALVE	CV-2					•				•													•																		
FREEZESTAT (MANUAL RESET)	FZ-1		•	,																											•										
SUPPLY FAN CONTROL (START/STOP)	SS						•				•						•														•										
VFD FAULT	DC		•	,												•														•											
SUPPLY FAN STATUS	DC		•	,												•									•				•								NOTE	4			
SUPPLY FAN BYPASS	DC		•	,																																					
SUPPLY FAN SPEED CONTROL	CI					•						•											•														NOTE	5			
SUPPLY SMOKE DETECTOR	S-1		•	,												•															•										
SUPPLY STATIC PRESSURE	SP-1		•												•														•		•										
DISCHARGE AIR TEMPERATURE	TS-3		•													•													•		•										
DISCHARGE AIR HUMIDITY	HS-2		•																																						
ZONE TEMPERATURE	TS-4		•													•													•												

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## SHEET NOTES

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1. LISTED ALARM LIMITS ARE INITIAL SETTINGS ONLY. ACTUAL ALARM LIMITS MAY DIFFER DEPENDING ON ACTUAL OPERATING CONDITIONS. Η

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- 2. SEE MECHANICAL FLOOR PLANS FOR LOCATIONS AND QUANTITIES OF NEW AND EXISTING VAV BOXES. VAV-1, VAV- 2, VAV-3, VAV-4 ARE 2 ALREADY PROGRAMMED WITH DDCP POINTS .
- 3. SET THE ALARM LIMITS AT +/- 10% OF THE SET POINT FOR THE VAV BOX BASED ON THE MECHANICAL SCHEDULE.
- 4. PROVIDE A NEW CURRENT RELAY FOR STATUS OF AIR HANDLING UNIT.
- 5. EC FAN MOTOR SHALL BE PROGRAMMED FOR REVERSE SIGNAL, PROGRAM FAN RUN AT 100%. IF EC FAN MOTOR CANNOT BE PROGRAMMED FOR REVERSE SIGNAL. PROVIDE REVERSE ACTING CONTROLLER IN UNIT. POWERED BY ANY AHU TRANSFORMER.
- 6. WHEN AHU-206 IS ON AND OUTSIDE AIR FLOW IS BELOW ALARM LIMITS, GENERATE ALARM WITH INSTRUCTIONS TO CHANGE FILTER.

REV	APPROV	/ED	DESCRI	PTION		JCN	REDLINE DATE	APVD	E
	ATO - T	DEP FEDER ECHNICAL OPERATIO	PARTMENT AL AVIAT	OF TRAN	SPORTATION MINISTRATION WE	ON Estern	I SERVICE AR	EA	
		REC	A CONFIG		/11 ROOM				
		DDCP P	POINT FU	JNCTIC	ON SCHED	JLE			
PA	LMDALE		LOS A	ANGELES C	ſR			CA	
RE	VIEWED BY	SUBMITTED BY			APPROVED BY				A
					DARYL KITCHEN		A		
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	ELEC	TRICAL LEGEND			El	ECTRICAL ABBREVIATIONS		
	LIGHTING FIXTURES	DISTRIBUTION EQUIPMENT	A		G		R	
╎┍	FLUORESCENT FIXTURE - CAPITAL LETTER (A,B,etc) INDICATES		Α		GALV	GAGE GALVANIZED	RECP	RECEPTACLE
L	TYPE AS SHOWN IN LIGHTING FIXTURE SCHEDULE. SUBSCRIPT (a, b, etc)		AC	ALTERNATING CURRENT	GALV	GENERAL ELECTRIC	RECT	RADIO FREQUENCY INTERFERENCE
Г	INDICATES SWITCH CIRCUIT (TYP FOR ALL FIXTURES)	LAN FLUSH MOUNTED TELCO OR LAN CABINET	ACT	ACCESS CONTROL TERMINAL	GFE	GOVERNMENT FURNISHED EQUIPMENT	RGS	RIGID GALVANIZED STEEL
L	(TYP FOR ALL FIXTURES)		AF	AMPERE FRAME	GND	GROUND	RML	RADAR MICROWAVE LINK
г		COMMUNICATIONS	AFCT	ABOVE FINISHED COUNTER TOP	H		RMS	ROOT MEAN SQUARE
L	2'x4' FLUORESCENT FIXTURE	TELEPHONE OUTLET	AFF	ABOVE FINISHED FLOOR	HPS	HIGH PRESSURE SODIUM	S	
		DATA OUTLET			HZ	HERTZ	SATS SCC	
		COMBINED TELEPHONE/DATA OUTLET					SIM	SIMILAR
l	FLUORESCENT STRIP OR TRACK LIGHT FIXTURE	FLOOR MOUNTED TELEPHONE/DATA OUTLET	AP	ANNUNCIATOR POINT	IC	INTERCOMMUNICATION / INTERCOM	SP	
			AT	AMPERE TRIP	INCANE		SRG	SIGNAL REFERENCE GRID
	10 INCANDESCENT, FLUORESCENT OR HID FIXTURE, CEILING MOUNTED	GROUNDING & LIGHTNING PROTECTION	ATS	AUTOMATIC TRANSFER SWITCH	ISMS	INTEGRATED SECURITY MANAGEMENT SYSTEM	S/S	START-STOP
		GROUND PLATE ON STAND OFF INSULATOR	AWG	AMERICAN WIRE GAGE	J JB	JUNCTION BOX	STGP	SIGNAL TRANSPORT GROUND PLANE
			B		K		STP	SHIELDED TWISTED PAIR
	INDICATE FACE(S) WITH DIRECTIONAL ARROWS AS SHOWN ON PLANS			BATTERY CHARGER	KA	KILOAMPERES	SW	SWITCH
		CONSOLE EQUIPMENT GROUNDING	BKR	BREAKER	KCMIL	THOUSAND CIRCULAR MILLS	SWBD	SWITCHBOARD
	INDICATE FACE(S) WITH DIRECTIONAL ARROWS AS SHOWN ON PLANS	MISCELLANEOUS	BRU	BREAKER PROGRAMMING UNIT	KV	KILOVOLT	T	SWITCHGEAR
		MIGGELEANEOUS	C		KVA	KILOVOLT AMPERES	I T	TRANSDUCER
	RECEPTACLES & FOWER CONNECTIONS	CROSS HATCHING OVERLAPPING ELECTRICAL DEVICES AND EQUIPMENT	C		KVAR	KILOVOLT AMPERES-REACTIVE	ТВ	TERMINAL BOX OR TERMINAL BOARD
	➡ DUPLEX RECEPTACLE, 20A, 125V, +18" UON				KW	KILOWATT	ТС	TRIP COIL
	SUBSCRIPTS: 1 = NUMBER INDICATES CIRCUIT CONNECTION	LIGHT LINE WEIGHT INDICATES EXISTING WORK			KWH	KILOWATT HOUR	TD	TIME DELAY
	WP = WEATHERPROOF	HEAVY LINE WEIGHT INDICATES NEW WORK			L		TERM	TERMINAL
	EWC = DEDICATED FOR ELECTRIC WATER COOLER USE	AREA DEFINED BY BANK OF OVERHEAD CONDUITS					TV	TELEVISION
	FLOOR MOUNTED DUPLEX RECEPTACLE		COMM	COMMUNICATIONS	LOSF I RA		TYP	TYPICAL
		KEYED NOTE CALLOUT - NUMBER AS INDICATED	COTR	CONTRACTING OFFICER'S TECHNICAL REPRESENTATI	VE LTG	LIGHTING	U	
	(J) JUNCTION BOX-WALL MOUNTED		CPC	CRITICAL POWER CENTER	LV	LOW VOLTAGE	UON	UNLESS OTHERWISE NOTED
	JUNCTION BOX-CEILING MOUNTED		CPU	CENTRAL PROCESSING UNIT	M		V	
	J JUNCTION BOX-SURFACE FLOOR MOUNTED	SINGLE LINE, SCHEMATIC DIAGRAM SYMBOLS	CR	CONTROL RELAY	MCC	MOTOR CONTROL CENTER	VA	
	(1/2) MOTOR CONNECTION		CS	CONTROL SWITCH	MCP	MOTOR CIRCUIT PROTECTOR	VFD	VARIABLE FREQUENCY DRIVE
			СТ	CURRENT TRANSFORMER / CABLE TRAY	MDT	MAIN DISTRIBUTION TERMINAL	VM	VOLTMETER
	30 SUBSCRIPT INDICATES RATED AMPACITY OF SWITCH	60A   MOLDED CASE THERMAL MAGNETIC CIRCUIT BREAKER, 100A FRAME AND 60A TRIP			MG	MOTOR GENERATOR	W	
	MAGNETIC STARTER +60" LION				MH	MANHOLE	W	WATT / WIRE
	SUBSCRIPT INDICATES NEMA STARTER SIZE	TRANSFER SWITCH, TYPE, SIZE AND RATING AS INDICATED ON DRAWINGS		DIGITAL INPUT	MLO	MAIN LUGS ONLY	WM	WATTMETER
	COMBINATION MAGNETIC STARTER WITH MOTOR CIRCUIT PROTECTOR.		DIA	DIAMETER	MTS	MANUAL TRANSFER SWITCH	X	
	+60" UON - SUBSCRIPT INDICATES NEMA STARTER SIZE		DISC	DISCONNECT	MVA	MEGAVOLT AMPERE	X	
			DM	DEMAND METER	N	NELITRAL	XFR	TRANSFER
	VFD       VARIABLE FREQUENCY DRIVE WITH INTEGRAL STARTER/DISCONNECT SWITCH,         FURNISHED BY DIVISION 15 AND INSTALLED BY DIVISION 16		DO	DIGITAL OUTPUT		NATIONAL ELECTRICAL MANUFACTURER'S ASS		
			DPDT	DOUBLE POLE DOUBLE THROW	$\bigcap$		XMIR XMIR	
	SWITCHES & CONTROLS		DPST	DOUBLE POLE SINGLE THROW	OVHD	OVERHEAD		TRANSDUCER
	· · · · · · · · · · · · · · · · · · ·				Р		I Y	WYE
	Pa,b,c, etc. SINGLE POLE SWITCH - SUBSCRIPT (a,b,etc) INDICATES SWITCHLEG, +48" UON		FDAM	ELECTRICAL DATA ACQUISITION AND MONITORING	Р	POLE	Y-D	WYE-DELTA
	3 \$ 3-WAY SWITCH. +48" UON		FH	ELECTRIC HEATER / ELECTRONIC HUMIDIFIER	PABX	PRIVATE AUTOMATIC BRANCH EXCHANGE	Z	
		— — — LIMIT OF EQUIPMENT	EHC	ELECTRIC HEATING COIL	PCMS	POWER CONTROL AND MONITORING SYSTEM	Z	IMPEDANCE
	\$ FLUORESCENT DIMMER SWITCH, +48" UON		EMERG	EMERGENCY	PCS	POWER CONDITIONING SYSTEM	MISCELLA	NEOUS
	MS OCCUPANCY SENSOR	B1B PANELBOARD	EMT	ELECTRICAL METALLIC TUBING	PF	POWER FACTOR		
			ERMS	ENVIRONMENTAL REMOTE MONITORING SYSTEM	PH	PHASE	Ø	PHASE
	\$ MOTION SENSOR SWITCH	ALL POWER PANELS AND CIRCUITS ARE DESIGNATED AS FOLLOWS:	ET	ELECTRIC HEAT TRACE	PNL	PANEL		
	\$ MANUAL MOTOR STARTER	C 1051 A 1	F <sub>FA</sub>	FAN COOLED	POS	POSITIVE / POSITION		
	T TRANSFORMER, SIZE AND RATING AS SHOWN ON DRAWINGS		FDR	FFEDER	PP	POWER POLE / PATCH PANEL		
	+18" MOUNTING HEIGHTS SHOWN WITH SYMBOL TO CENTER OF DEVICE, UON	PANEL DESIGNATOR	FLA	FULL LOAD AMPERES				
			FLUOR	FLUORESCENT				
	PUBLIC ADDRESS/INTERCOM SPEAKER - WALL MOUNT	BUS DESIGNATION:	FO	FIBER OPTIC				
	(SP) PUBLIC ADDRESS/INTERCOM SPEAKER - CEILING FLUSH MOUNT		FOT	FIBER OPTIC TERMINAL				
		"E"=ESSENTIAL	FV	FULL VOLTAGE				
	CONDUITS & CONDUCTORS							
		ELECTRICAL GENI	ERAL NUTES					
_	BRANCH CIRCUIT, SURFACE MOUNTED 3/4"C WITH 2#12 PLUS							
	1#12 GROUND UON	1. PRACTICE EXTREME CAUTION WHEN WORKING ON ANY	6. FIRESTOP CONDUIT P	ENETRATIONS THROUGH FLOORS		(		
	— — SAME AS BRANCH CIRCUIT - BUT CONCEALED	OF THE ELECTRICAL POWER SYSTEMS. THIS FACILITY IS		LS. MATERIALS & METHODS EMPLOYED		REV APPROVED DATE		DESCRIPTION JCN
		CENTER (ARTCC) AND UNAUTHORIZED ELECTRICAL	STANDARDS. CONTR	ACTOR SHALL FIELD VERIFY LOCATIONS		22 PROTOTONAL	DEPART	MENT OF TRANSPORTATION
-	IN CONDULT WIRES SHALL BE #12 UON	OUTAGES MAY CAUSE ACCIDENTS AND/OR LOSS OF LIFE.	OF FIRE RATED WALL	S.	1	ATO TECHNI		
		2 UNSCHEDULED ELECTRICAL SERVICE INTERRUPTIONS ARE	7. ROUTE OVERHEAD CO	ONDUIT RUNS AS HIGH AS POSSIBLE.	EG	E18329		NDT22
	HOME RUN TO PANEL DP, CIRCUIT 1	<sup>2</sup> NOT PERMITTED. WORK REQUIRING PERMANENT, TEMPORARY	8. ELECTRICAL EQUIPM	ENT AND LIGHTING FIXTURE SUPPORT				ARICC
_		IN WRITING BY COTR AT LEAST 14 CALENDAR DAYS IN	SYSTEMS SHALL BE I	NSTALLED TO WITHSTAND SEISMIC		2 02/04/2022 T 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	RECON	IFIGURE M1 ROOM
		ADVANCE OF PERFORMING WORK.	IBC CATEGORY D.			FILE EXPIRES:		GEND SYMBOLS NOTES AND
V		3. ONLY FAA PERSONNEL MAY OPERATE CIRCUIT BREAKERS.	9. INFORMATION SHOWI	N IS PER SURVEY PERFORMED ON 8/12/13.		03/31/2022	Δ	BREVIATIONS
_	CONDUIT DOWN	CONTRACTOR SHALL REQUEST PERMISSION OF FAA IN	COORDINATE WITH C	OR IF CONFLICTS ARISE.			7 \	
_	CONDUIT UP	ADVANCE AND IN WRITING FOR EACH CASE OF BREAKER	10. EXISTING STRUCTUR	AL STEEL, MISCELLANEOUS STEEL, AND GRATING	Ċ	ENGINEERS PALMDALE		
		OR CLOSE (ENERGIZE) ANY CIRCUIT BREAKER AT ANY TIME.		AINT. CONTRACTOR WILL NEED TO ABATE PAINT OR		Case, Lowe & Hart, Inc. 2484 Washington Blvd. Suite 510 Ogden, Utah 84401-2346	.2001	
-		4. CONDUIT ROUTING SHOWN IS DIAGRAMMATIC. FIFLD VERIFY	FROM GETTING IN TH	E AIR PER SPECIFICATION 2085.		801.399.5821 www.clhae.com	GAPASIN	DARYL KITCHEN
						PRO		MGR. ENGINEERING - LA
		ACTUAL CONDITIONS PRIOR TO INSTALLATION.					I I I I I I I I I I I I I I I I I I I	
		5. COORDINATE ELECTRICAL WORK WITH ARCHITECTURAL				<b>E-Corp</b>	NED Designer	ISSUED BY DATE 02.04.2021 JCN GINEERING SERVICES DRAWING NO
		5. COORDINATE ELECTRICAL WORK WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.			В	JILDING A WORLD OF DIFFERENCE	NED Designer	ISSUED BY DATE 02.04.2021 JCN GINEERING SERVICES DRAWING NO ENROUTE/FSS ZLA-D-ARTCC- E174

![](_page_50_Picture_17.jpeg)

![](_page_51_Figure_0.jpeg)

	ELECTRICAL DEMOLITION KEYED NOTES
MARK	NOTE
ED1	EXISTING DEVICE TO REMAIN.
ED2	REMOVE EXISTING CONDUIT, J-BOXES & DEVICES. RE-INSTALL CONDUIT, J-BOXES & NEW DEVICES IN THE NEW WALL.
ED3	REMOVE & STORE EXISTING CABLE TRAY FOR RE-INSTALLATION. REMOVE ALL HANGARS FROM UPPER STRUCTURE.

![](_page_51_Figure_14.jpeg)

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	<b>[</b>									
χ.	REV	APPROVED DATE		DESCRI	PTION		JCN	REDLINE DATE	APVD	В
ENGIN	A	ATO - TEC	DEPA FEDERA	RTMENT L AVIAT	OF TRANS	SPORTATION MINISTRATION WE	ON ESTERN S	ERVICE ARE	ĒA	
EER★V			REC	A ONFIG		11 ROOM				
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84401-2346 hae.com		A A	ART GAPASIN			DARYL KITCHEN	1			7 \
		F	ROJECT ENGINEER			MGR. ENGINEER	RING - LA			
Corp		D	ESIGNED Designer	ISSUE	ED BY	DATE 02.04.202	1 JCN	1	004394	
ENCE		D C	RAWN J.M.S. HECKED K.J.L.	ENGINEERIN ENROU	G SERVICES TE/FSS	DRAWING NO	CC- E1	75	REV	
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![](_page_52_Figure_0.jpeg)

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E18329 ELECTRICAL  $|\star|$ 02/04/2022  $\mathcal{O}_{\lambda}$ THE OF CALIFY Case, Lowe & Hart, Inc. 2484 V Suite 510 Ogden, Utah 801.399.5821 www.cl

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	ELECTRICAL POWER KEYED NOTES		
MARK	NOTE		
EP1	PROVIDE LABEL ON RECEPTACLE WITH NAME OF POWER PANEL AND THE CIRCUIT NUMBER INDICATED.		
EP2	NUMBER OF CIRCUITS IS SHOWN ON THE HOMERUN ONLY. EACH BRANCH CIRCUIT SHALL HAVE ITS OWN SEPARATE NEUTRAL AND GROUNDING CONDUCTORS. USE OF A COMMON SHARED NEUTRAL OR GROUNDING CONDUCTORS IS NOT PERMITTED.		Π
EP3	RECEPTACLES TO BE INSTALLED 18" ABOVE THE RAISED FLOOR.		
EP4	COORDINATE WITH UNICOR SUPPLIER TO PROVIDE RECEPTACLE FOR EACH CBI UNIT. REMOVE EXISTING POWER POLES ON THE CBI UNITS AND PROVIDE COVER PLATES.		
EP5	INSTALL (3) 1" CONDUITS WITH PULL STRING FROM PANEL "B1051C" TO A J-BOX UNDERNEATH THE RAISED FLOOR. POWER TO BE PULLED BY OTHER CONDUIT SHALL GO ABOVE THE CEILING AND DOWN THE NEW M1 WALL. CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING.		
EP6	CONNECT PERIMETER GROUND LOOP TO EVERY THIRD PERIMETER ACCESS FLOOR PEDESTAL USING #6 AWG BARE COPPER CONDUCTOR AND EXOTHERMIC WELDS.		
EP7	INSTALL #4/0 AWG BARE COPPER CABLE PERIMETER GROUND LOOP ON FLOOR SLAB NOT MORE THAN 12" FROM PERIMETER WALL. FASTEN TO FLOOR WITH CLIPS EVERY 5 FEET.		G
EP8	CONNECT SRG TO PERIMETER GROUND LOOP EVERY 10'-0" WITH #4/0 AWG BY EXOTHERMIC WELD.		
EP9	THE DISTANCE FROM THE EXTERNAL WALLS OF THE CONTROL ROOM TO THE SIGNAL REFERENCE GRID SHALL NOT EXCEED 3 FEET.		
EP10	CONNECT NEW PERIMETER GROUND CONDUCTOR TO EXISTING PERIMETER GROUND CONDUCTOR BY EXOTHERMIC WELD.		
EP11	CONNECT NEW SRG TO EXISTING SRG BY EXOTHERMIC WELDS.		
EP12	CONNECT NEW MULTI-POINT GROUND PLATE TO EXISTING MULTI-POINT WITH 4/0 AWG BARE COPPER CONDUCTOR BY EXOTHERMIC WELDS.		
EP13	COORDINATE EXACT LOCATION AND MOUNTING HEIGHT FOR TV MONITOR RECEPTACLE.		
EP14	EXISTING RECEPTACLE ALONG PERIMETER WALLS SHALL BE RELOCATED TO NEW STUD WALL. PROVIDE NEW CONDUIT AND CONDUCTORS.		F
EP15	FINAL LOCATION BY FAA.		
FP16	MOUNT IN CEILING, FINAL LOCATION BY FAA.		

![](_page_52_Figure_9.jpeg)

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E18329 ELECTRICAL			REC	A ONFIG		M1 ROOM				
OF CALIFOT EXPIRES: 03/31/2022			FIRST FLOOR	POWE	R AND	GROUNDI	NG F	PLAN		
ARCHITECTS	PAL	MDALE		LOS A	ANGELES C	TR			CA	
Case, Lowe & Hart, Inc. 2484 Washington Blvd. Suite 510 Ogden, Utah 84401-2346	REV	IEWED BY	SUBMITTED BY			APPROVED BY				A
801.399.5821 www.clhae.com								٨		
E Corn				ISSUE	ED BY	DATE 02.04.202	KING - L	A ICN	004204	
BUILDING A WORLD OF DIFFERENCE			DRAWN CHECKED K.J.L.	ENGINEERIN ENROU	G SERVICES TE/FSS	DRAWING NO	CC- E	E176	REV	
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![](_page_54_Figure_0.jpeg)

						LI	GH1	ΓΓΙΧ	TURE SC	HE	DUL	Ē			
								LAMPS	6		BAL	LAST/DRIVE	R	MANUFACTURER & CATALOG NUMBER	
NO	DESCRIPTION	VOLTS	MTG.	LENS	FINISH			io. Of Amps	LAMP TYPE	٦ ٩	YPE	NO. PER LUMINAIRE	INPUT WATTS	(NO SUBSTITUTIONS WITHOUT PRIOR APPROVAL) NOTE COMMISSION ALL LIGHTING	DETAILS
T-1	LED LAY-IN	277	CEILING RECESSED	ACRYLIC	WHITE	r n	*	1	LED 4000K	3	*	1	47.59	LITHONIA 2BLT4-60L-ADP-EZ1-LP840	DIMMING BALLAST
Т-1Е	LED LAY-IN	277	CEILING RECESSED	ACRYLIC	WHITE		*	1	LED 4000K		*	1	47.59	LITHONIA 2BLT4-60L-ADP-EZ1-LP840	DIMMING BALLAST
T-2	LED DOWN LIGHT	277	CEILING RECESSED	ACRYLIC	WHITE		*	1	LED 4000K		*	1	17.5	LITHONIA LDN6-40/15 LO6 AR LSS MVOLT EZ10	DIMMING BALLAST
T-2E	LED DOWN LIGHT	277	CEILING RECESSED	ACRYLIC	WHITE		*	1	LED 4000K		*	1	17.5	LITHONIA LDN6-40/15 LO6 AR LSS MVOLT EZ10	DIMMING BALLAST
Т-3	EMERGENCY LIGHT	277	SURFACE	ACRYLIC	WHITE		*	1	LED		*	1	3.15	LITHONIA ELM4L	
E	EXIT LIGHT	120/277	WALL OR CEILING SURFACE	ACRYLIC	WHITE		*	1	LED		*	1		LITHONIA LHQM LED R HO RO	ARROWS WHERE SHOWN

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		LIGHTING CO	NTROL DEVICES	
TYPE	MANUFACTURER	CATALOG NUMBER	REMARKS	
NEW	LEGRAND WATTSTOPPER	LMDC-100	CEILING MOUNTED DUAL TECH SENSOR	
NEW	LEGRAND WATTSTOPPER	LMBC-101	BRIDGE	
NEW	LEGRAND WATTSTOPPER	LMDM-101	DIMMING SWITCH	
NEW	LEGRAND WATTSTOPPER	LMRC-211	1-RELAY DIMMING ROOM CONTROLLER	

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## GENERAL NOTES:

1. EACH BRANCH CIRCUIT SHALL HAVE ITS OWN SE GROUNDING CONDUCTORS. USE OF COMMON OR OR CONDUCTORS IS NOT PERMITTED.

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- 2. LED DRIVERS TO MEET FCC PART 15 SUBPART B, CLASS B TO PREVENT RADIO FREQUENCY INTERFERENCES.
- 3. EXISTING CIRCUIT B120AA.3 IS ABOVE THE CEILING ABOVE THE OBSERVATION BRIDGE, AND EXISTING CIRCUIT B120AA.5 IS ABOVE THE CONTROL ROOM ACOUSTICAL CEILING UNDER THE OBSERVATION BRIDGE FLOOR.

LEP.	D PROFESSIO
REGIS	MARC L. GOUL E18329 ELECTRICAL
SI	02/04/2022
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![](_page_54_Picture_11.jpeg)

OR LIGH	ITI	NG	PLAN	
	0	4'	8'	16

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MARK	NOTE
EL2	ALL ENERGENCY FIXTURES SHALL BE CONNECTED TO EXISTING CIRCUIT POWERED BY UPS PANEL B120AA. CONNECT TO CIRCUIT B120AA.3 OR B120AA.5. THE NORMAL POWER SHALL NOT BE CONNECTED TO THESE EMERGENCY LIGHTS. HOWEVER, THE DIMMING CONTROLS (0-10 VOLTS) SHALL BE CONNECTED TO THE 2x4 LIGHTS. ON THE LOSS OF DIMMING CONTROL, 2x4 EMERGENCY LIGHTS SHALL GO TO FULL BRIGHTNESS.
EL3	LIGHTING IN ROOMS 1051A & 1051B SHALL BE CONNECTED TO B1052B-11. LIGHTING IN 1051C (MECH. ROOM), 1051D, & 1051E SHALL BE CONNECTED TO B105B-17. PULL2 - #12 & 1 - #12 GRD. TO BREAKER. RE-USE EXISTING CIRCUIT IN PANEL B1052B IN UTILITY CHASE.
EL4	CONNECT EMERGENCY LIGHTS TO B120AA.3 OR B120AA.5 AND BALANCE THE LOAD.
EL5	USE EXISTING SPARE 20AMP BREAKER IN PANEL B1052B FOR NEW LIGHTING CIRCUIT. PULL 2 - #12 & 1 - #12 GRD. WIRES IN 3/4" C. TO BREAKER.
EL6	EXIT LIGHTS SHALL BE INSTALLED ON EAST AND WEST SIDE OF BRIDGE. COORDINATE EXACT LOCATION WITH SOR. WHERE CONDUIT CANNOT BE HIDDEN IN WALLS OR CEILING, PAINT TO MATCH WALL COLOR.
EL7	ALL SWITCHES SHALL BE DIMMABLE. EVERY CONFERENCE ROOM, OFFICE, CORRIDOR, CBI LAB AND NEW CONTROL ROOM AREA SHALL HAVE ROOM CONTROLLERS AND BRIDGE (COMMUNICATIONS). ALL NEW CONFERENCE ROOMS & OFFICES SHALL HAVE OCCUPANCY SENSORS, DIMMABLE SWITCHES, ROOM CONTROLLERS, OCCUPANCY SENSORS AND BRIDGE (COMMUNICATION) SHALL MATCH EXISTING IN THE FACILITY. SEE SCHEDULE ON THIS SHEET FOR MANUFACTURE AND CATALOG NUMBERS.
EL8	PANEL IS LOCATED IN ELECTRICAL CLOSET IN HALLWAY NEAR GRID 8/C-2.

PARATE NEUTRAL AND	
R SHARED NEUTRAL	

![](_page_54_Picture_20.jpeg)

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w.clhae.com			ART GAPASIN				DARYL KITCHEN	١			
^			PROJECT ENG	SINEER	100115		MGR. ENGINEEI	RING - LA			
Corp			DESIGNED	Designer			DATE 02.04.202	1	1	004394	
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_	EA EA	<b>RK</b> 1 2 3	FOR E/ FACEP ABOVE COORE EXISTII INSTAL AWG IN	ACH 4 LATE THE DINAT NG CI L CE	A PORT TELCO/DAT, CEILING LEVEL INC CEILING LEVEL INC TE WITH UNICOR SU BI UNITS. ILING MOUNTED SF CONDUIT TO CON	A OUTLET IN 64) AND 1 - 1 CLUDE A PUL JPPLIER TO I PEAKERS WIT	NOTE ISTALLED 4" " CONDUIT F L STRING F PROVIDE TE TH VOLUME EAKERS. CO	x 4" OUTLET FROM THE TE OR ALL CON ELCO / DATA CONTROL. IN DORDINATE V	BOXES WITH L ELEPHONE OUT DUITS. OUTLETS FOR NSTALL TWISTE VITH THE ARCH	EVITON LET BOX TO 6 EACH ED PAIR #16 I. DWG. FOR		Н
	EA	5	OTHER INSTAL ROOM EXISTII STUD V	CEIL L WA AS IN NG TI VALL	ING DEVICES. ALL MOUNTED SPEA IDICATED. MOUNT ELCO / DATA OUTLE S.	KER ATTEN THE ATTENU ETS ALONG F	UATOR IN A JATOR AT 48 PERIMETER	SINGLE GAN 8" ABOVE FIN WALLS SHAL	IG BOX IN THE ISHED FLOOR. L BE RELOCAT	CONFERENCE ED TO NEW		G
	<u>GE</u> A. A C T	NE F TH OOR HAT	RAL NO DRIZONTA IS CONTR DINATE W MAY COIN	OTE AL DA ACT. /ITH -	ES: TA / TELCO CABLE THEY WILL BE INS THE COR FOR THE WITH THE CONTR	ARE NOT IN TALLED BY ( CABLE INST ACTOR'S SC	I THE SCOP OTHERS. ALLATION COPE OF WC	e Drk.				F
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ENCE				CHEC	J.M.S. CKED K.J.L.	ENROUT	E/FSS	ZLA-D-AI	RTCC- E1	80		

![](_page_56_Figure_0.jpeg)

MARK	NOTE
CT1	PROVIDE A 2" CONDUIT BETWEEN THE PRESSURIZED AND NON-PRESSURIZED RAISED FLOOR AREA FOR FUTURE DATA CABLES.
CT2	PROVIDE AND INSTALL CABLE TRAY UNDERNEATH THE RAISED FLOOR. MATCH EXISTING CABLE TRAY IN THE CONTROL WING. CONTRACTOR SHALL FIELD VERIFY.
CT3	WHERE NEW CABLE TRAY SPLICES OCCUR, INSTALL SPLICE KIT (SWK FROM CABLOFIL), FOR A TOTAL OF 4 SPLICE CLIPS (SWK TYPE) FOR EACH SPLICE. MULTIPLE PLACES. COORDINATE WITH COR.
CT4	WHERE NEW CABLE TRAY INTERSECTIONS AND TEES OCCUR, INSTALL 90 DEGREE BENDS AND TEE BEND KIT (EZT 90 KIT FROM CABLOFIL) FOR CORNERS OF EACH SIDE OF INTERSECTIONS AND 2 CORNERS FOR TEES'S. MULTIPLE PLACES. COORDINATE WITH COR.
CT5	DO NOT ATTACH CABLE TRAY TO WALLS. MAINTAIN 3 INCH SEPARATION.
CT6	2 - 4" CONDUIT SLEEVES THROUGH WALL. LEAVE APPROX. 3" SLACK IN CABLES ON BOTH SIDES OF WALL.

![](_page_56_Figure_8.jpeg)

![](_page_56_Figure_9.jpeg)

![](_page_57_Figure_0.jpeg)

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PANEL: (E) B1051A-DEMO	MA		REAK	ER		250		VOLA	r <b>AGE</b> :		208 Y/	120		PHASE.		3 W	IRE: 4	NEMA:
MAINS: 400 AMPS	400 AMPS MOUNTING.					USH		LOC	ATION	N CONTROL RM 10				REMARKS		EA	TON PRL 1	A
					$\overline{/}$	KVA	PHASE			<b>KVA</b> /								
	WIRE	P	AWP	LA	PWR	L/TS	C.Ø.	/A/	В	9	<b>C.O</b> .	LTS	PWR		Alvin	H VV		DAD DESCRIPTION
	X/		/ /	1	$\overline{/}$			0.00			$\overline{/}$			2			$\overline{//}$	
PANEL B1051B	12	3	100	3					0.00					4	100	3	2	PANEL B1051C
	X/			5						0.00				6				
J-BOX NORTH ISLAND	12	1	20	7				0.00			[//			8	20	1	12	CBI ISLAND W
J-BOX NORTH ISLAND	12	1	20	9					0.00		///			10	20	1	12	CBI ISLAND W
J-BOX NØRTH ISLAND	12	1	20	11						0.00				12	20/	1	12	
RECEPT EAST WALL NORTH /	12	1	20	13	$\langle / \rangle$			0.00			$\langle / \rangle$			14	/20/	1	12	J-BOX SOUTH I
RECEPT EAST WALL NORTH	12	1	20	15	$\langle / \rangle$			$\langle / \rangle$	0.00		$\langle / /$			16	/20/	1	12	J-BOX SOUTH J
RECEPT WEST WALL	12	1	20	17	$\mathbb{Z}$			$\langle$		0.00	$\mathbb{Z}$			18	/20/	1	12	
RECEPT NORTH WALL	12	1	20	19	$\mathbb{Z}$			0.00			$\mathbb{Z}$			20	/20 /	1	12 /	J-BOX WE
J-BOX CBI ISLAND EAST #1	12	1	/20/	21	V		$\langle / \rangle$	$\langle /$	0.00	$\left[ \right]$	$\mathbb{X}$			22	20	1	12///	J-BOX WES
J-BOX CBI ISLAND EAST #4	12	1	/20/	23	$\mathbb{Z}$		$\langle $	$\langle /$		0.00	$V \overline{Z}$			24	20	1	12///	J-BOX NORTH
	12	1	/20/	25	$\langle /$			0.00		$\langle \rangle$				26	20	1	12///	J-BOX NORTH
RECEPT SOUTH CB/105	/ 12	1	/20 /	27	//				0.00	/ /				28	20	1	12	
RECEPT SOUTH CBI 105	12	1	<i>7</i> 20	29						0.00				30	20		12	<u> </u>
SPARE / / / /	12	1	20	31				0.00					$\langle /$	32	20	1	12	/////
SPARE / / /	12	1	20	33					0.00					34	20	1/	12	/////
RECEPT EAST WALL SOUTH	12	1	20	35						0.00				36	20/	1/	12	
SPARE / / /	12	1	20	37		$\langle / \rangle$		0.00						38	20	1/	12	/////
SPARÉ / / /	12	1	20	39				<u>۲</u>	0.00		$\langle / / \rangle$			40	/20/		12	
SPARE / /	12	1	20	41	$\angle$					0.00	$\mathbb{K}$			42	/20/		12 /	
SUB-TOTAL (KVA)	1//				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<u> </u>				
*PROVIDE GFCI BREAKER		/ /					$\left  \right  $			F LOA	<b>p</b> /		<u> </u>	ÓNNÉ	CTÉD		DIVERSITY	DEMANI
**PROVIDE UL LISTED FIRE ALA		AKE	R HAI	NDLE	/ /		× / /	/ /		ITING		$\square$		9.0	, 0 / _		/ 100%/	0,00
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PANEL:	(E) B1	051A	MA	IN B	REAK	ER		250		VOLT	AGE:		208 Y/	120		PH/	ASE:	3	WIRE:	4	NEMA:	1
MAINS:	400	AMPS	MOUN	TINC	G:		FL	JSH		LOCA	TION		MECH	ROOM		REI	MARKS	5:	EATON	TON PRL 1A		
								KVA			PHASE			KVA								
LOAD DESCRIPTION		ΓΙΟΝ	WIRE	Р	AMP	СКТ	PWR	PWR LTS C.O.		A B C		C.O.	LTS	PWR	СКТ	CKT AMP		WIRE LOAD DESCRIPTI			ION	
						1	0.83	0.00	4.02	5.59			0.24	0.00	0.50	2						
P/	ANEL B1051	В	12	3	100	3	0.83	0.00	4.02		5.59		0.24	0.00	0.50	4	100	3	2	P	ANEL B1051	C
						5	0.83	0.00	4.02			5.59	0.24	0.00	0.50	6						
OFFICE			12	1	20	7			0.90	1.80			0.90			8	20	1	12			OFFICE
OFFICE			12	1	20	9			0.90		1.80		0.90			10	20	1	12			OFFICE
OFFICE			12	1	20	11			0.90			0.90				12	20	1	12			SPARE
SPARE			12	1	20	13				0.90			0.90			14	20	1	12			OFFICE
SPARE			12	1	20	15					0.90		0.90			16	20	1	12			OFFICE
OFFICE			12	1	20	17			0.90			0.90				18	20	1	12			SPARE
OFFICE			12	1	20	19			0.90	1.80			0.90			20	20	1	12		CONFER	
SPARE			12	1	20	21					0.90		0.90			22	20	1	12		CONFER	
SPARE			12	1	20	23						0.90	0.90			24	20	1	12		CONFER	
VAV-7,8			12	1	20	25		0.72		1.62			0.90			26	20	1	12		CONFER	
VAV-9,10			12	1	20	27		0.72			0.72					28	20	1	12			SPARE
SPARE			12	1	20	29						0.00				30	20	1	12			SPARE
IN-LINE FA	N		12	1	20	31		0.20		0.74			0.54			32	20	1	12		CBI L	AB WES
SPARE			12	1	20	33					0.50		0.50			34	20	1	12		CBI L	AB WES
SPARE			12	1	20	35						0.50	0.50			36	20	1	12		CBI L	
SPARE			12	1	20	37				0.50			0.50			38	20	1	12		CBI	
SPARE			12	1	20	39					0.50		0.50			40	20	1	12		CBI	
SPARE			12	1	20	41						0.72	0.72			42	20	1	12		CBI	
SUB-TOTA	L (KVA)						2.50	1.64	16.56	12.95	10.91	9.51	11.18	0.00	1.50			1				
*NEW LOAD									1	TYPE C	F LOA	D		C	ONNE	CTED		DIVI	ERSITY	DEMA	ND	
**PROVIDE UL LISTED FIRE ALARM BREAKER HANDLE										LIGH	ITING				1.64	4		100% 1.64			4	
									PO	NER				4.00	)		7	70%	2.8	0		
										С	.0.				27.7	4		NEC	220.44	18.9	00	
PANEL LOADING 26%											то	TAL			33,38				ł	KVA 23.34		

![](_page_58_Picture_13.jpeg)

![](_page_58_Picture_14.jpeg)

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PANEL:	(E) B1051B	MAIN BREAKER					100		VOLT	AGE:		208 Y	7/ 120		PH	ASE:	3	WIRE:	4	NEMA:	1
MAINS:	125 AMPS	MOUN	ITIN	G:		SU	RFACE		LOCA	ATION		MEC	CH RM.		RE	REMARKS:		EATON PRL 1A			
	DECODIDITION				ОИТ		KVA			PHASE			KVA		OKT		<b>D</b>		1.04		
LUAD DESCRIPTION		WIRE	P	AIVIP	CKI	PWR	LTS	C.O.	Α	В	С	C.O.	LTS	PWR	CNI	AIVIP	P	WIKE	LOAD DESCRIPTION		
RECEPT		12	1	20	1			0.90	1.40					0.50	2	20	1	12			VAV-1,2,3
RECEPT		12	1	20	3			0.90		1.40				0.50	4	20	1	12			VAV-4,5,6
RECEPT		12	1	20	5			0.90			1.26	0.36			6	20	1	12		MECH R	M OUTLET
RECEPT		12	1	20	7			0.90	1.26			0.36			8	20	1	12		MECH R	M OUTLET
RECEPT		12	1	20	9			0.90		0.90					10	20	1	12			SPARE
RECEPT		12	1	20	11			0.90			0.90				12	20	1	12			SPARE
RECEPT		12	1	20	13			0.90	0.90						14	20*	1	12			SPARE
RECEPT	CEPT 12 1 20		20	15			0.90		1.40				0.50	16	20	1	12			P-200	
RECEPT		12	1	20	17			0.90			1.40			0.50	18	20	1	12			DOCCP
RECEPT		12	1	20	19			0.90	0.90						20	20	1	12			SPARE
J-BOX SPEC	IALIST RM	12	1	20	21			0.90		0.90					22	20*	1	12			OFFICE
J-BOX SPEC	IALIST RM	12	1	20	23			0.90			0.90				24	20*	1	12			OFFICE
SPARE		12	1	20	25				0.00						26	20*	1	12			OFFICE
MAC PANEL	RM 125	12	1	20	27	0.50				0.50					28	20*	1	12			OFFICE
OUTLET PAI	NEL ATTIC	12	1	20	29			0.18			0.18				30	20	1	12			SPARE
FLOOR REC	EPTS.	12	1	20	31			0.36	0.36						32	20	1	12			SPARE
FLOOR REC	EPTS.	12	1	20	33			0.36		0.36					34	20	1	12			SPARE
FLOOR REC	EPTS.	12	1	20	35			0.36			0.36				36	20	1	12			SPARE
SPARE		12	1	20	37				0.00						38	20	1	12			SPARE
SPARE		12	1	20	39					0.00					40	20	1	12			SPARE
SPARE		12	1	20	41						0.00				42	20	1	12			SPARE
SUB-TOTAL	(KVA)					0.50	0.00	12.06	4.82	5.46	5.00	0.72	0.00	2.00							
*NEW LOAD ON EXITING BREAKER								TYPE OF LOAD							ONNE	CTED		DIV	ERSITY	DEM	AND
**PROVIDE UL LISTED FIRE ALARM BREAKER HANDLE								LIGHTING							0.00				00%	0.0	00
***NEW LOAD ON NEW BREAKER									WER			2.50					70%	1.8	30		
				C.O.							12.78						NEC 220.44 11.40				
PANEL LC	DADING	37%						TOTAL							15.28				KVA 13.20		20
7/10/2020	11:46									то	TAL				43				MPS	3	7

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![](_page_59_Figure_2.jpeg)

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									1									-				
PANEL:	(E) B1051C	MA	BREAKI	ER		100		VOLI	AGE:		208 Y/	120		PH	ASE:	3	WIRE:	4	NEMA:	1		
MAINS:	125 AMPS	MOUN	TIN	G:		FL	USH		LOCA	ATION	CC	ONTROL	- RM 10	52	REI	MARKS	<b>S</b> :	EATON	N PRL 1A			
							KVA			PHASE			KVA									
	DESCRIPTION	WIRE	P	AMP	СКТ	PWR	LTS	C.O.	Α	В	С	C.O.	LTS	PWR	CKT	AMP	P	WIRE	LOAD DESCRIPTION			
CONTROL RO	DOM WEST WALL	12	1	20*	1			0.36	0.36						2	20	1	12			SPARE	
CONTROL RO	OOM WEST WALL	12	1	20*	3			0.36		0.36					4	20	1	12			SPARE	
SPARE		12	1	20	5						0.50			0.50	6	20**	1	12	DCN36 PNL CWA FACP (K			
SPARE		12	1	20	7				0.50					0.50	8	20**	1	12	JCI FIRE	PNL CW 1 F	ACP (K.25)	
SPARE		12	1	20	9					0.50				0.50	10	20**	1	12	NCCU	-3 FIRE SYS	RM B120	
SPARE		12	1	20	11						0.00				12	20	1	12			SPARE	
SPARE	PARE 12 1 20		13				0.00						14	20	1	12	12 SPAF					
SPARE 12 1 20		20	15					0.00					16	20	1	12			SPARE			
SPARE		12	1	20	17						0.00				18	20	1	12			SPARE	
SPARE		12	1	20	19				0.00						20	20	1	12			SPARE	
SPARE		12	1	20	21					0.00					22	20	1	12			SPARE	
SPARE		12	1	20	23						0.00				24	20	1	12			SPARE	
SPARE		12	1	20	25				0.00						26	20	1	12			SPARE	
SPARE		12	1	20	27					0.00					28	20	1	12			SPARE	
SPARE		12	1	20	29						0.00				30	20	1	12			SPARE	
BLANK		12	1	20	31				0.00						32	20	1	12			BLANK	
BLANK		12	1	20	33					0.00					34	20	1	12			BLANK	
BLANK		12	1	20	35						0.00				36	20	1	12			BLANK	
BLANK		12	1	20	37				0.00						38	20	1	12			BLANK	
BLANK		12	1	20	39					0.00					40	20	1	12			BLANK	
BLANK		12	1	20	41						0.00				42	20	1	12			BLANK	
SUB-TOTAL (	KVA)					0.00	0.00	0.72	0.86	0.86	0.50	0.00	0.00	1.50								
*NEW LOAD					TYPE C	of Loa	D		С	ONNE	CTED		DIV	ERSITY	DEM	AND						
**PROVIDE UL LISTED FIRE ALARM BREAKER HANDLE								LIGHTING							0.0	0			100%	0.0	0	
										PO	WER				1.5	0			70%	1.1	0	
									С		0.72					NEG	220.44	0.8	0			
PANEL LO	ADING 6%	I								то	TAL				2.2	2			KVA 1.			
4/27/2020	17:04									TOTAL								A	AMPS			

![](_page_59_Picture_9.jpeg)

![](_page_59_Picture_10.jpeg)

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С