0 5'	50'     0     5'       1/16" = 1'-0"     1/16"     1/16"	1/8" = 1'-	25' 	0 1'	12' 	0 1' 
						SAN
	ENT OF GENERAL CONFORMANCE	ANCE		<b>GENERA</b> ESPONSIBILITY OF THE GENERAL CRIBED, DEPICTED OR DETAILED	CONTRACTOR TO SEE TO IT	
FOR ARCHITECTS/ENGI	NEERS WHO UTILIZE PLANS, MITED TO SHOP DRAWINGS, PREPARED BY OTHER LICE	NSED DESIGN	INSTALLED <u>OR</u> OMISSIC	REGARDLESS OF THE LOCATION DN (WHETHER DELIBERATE OR A ACTOR ON HIS/HER BID.	OF THAT MATERIAL OR WORK	K WITHIN THE DOCUMENTS
(APPLICATION NO	04 440440 04 11	11)	THEIR ENTI MUST BE BF	ACTORS, WHETHER THE GENER/ RETY. DISCREPANCIES OR CONT ROUGHT TO THE ATTENTION OF FICATION. OTHERWISE EITHER D	RADICTIONS BETWEEN PORTI THE ARCHITECT AT LEAST 48 H	ONS OF THESE DOCUMENT
THIS DRAWING, PAG 1) DESIGN INTENT AND A CALIFORNIA CODE OF R	SHEETS LISTED ON THE COVER OR INDEX SHEET GE OF SPECIFICATIONS/CALCULATIONS APPEARS TO MEET THE APPROPRIATE REQUIREMENTS REGULATIONS AND THE PROJECT SPECIFICATIONS PREP	PARED BY ME, AND	3. THE CONTR GATES, SIG TO PROVIDE COMPLETIC	TTED BY THE ARCHITECT, AT NO ACTOR IS RESPONSIBLE FOR PR NAGE, SECURITY LIGHTING OR O E FOR THE SAFETY OF STUDENTS ON OF THE WORK UNLESS OTHER TION MANAGER.	OVIDING AND MAINTAINING TI THER SECURITY AND CONTRO S, FACULTY AND STAFF AROU	EMPORARY FENCING AND DL MEASURES NECESSARY ND THE WORK, UNTIL THE
INCORPORATION INTO T THE STATEMENT OF GE MY RIGHTS, DUTIES, ANI	I MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE F THE CONSTRUCTION OF THIS PROJECT. ENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS ID RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 SECTIONS 4-336, 4-341 AND 4-344" OF TITLE 24, PART 1. (	S RELIEVING ME OF 8 OF THE	4. THE CONTR DAMAGED I AROUND TH	ACTOR IS RESPONSIBLE TO REP DURING THE COURSE ON THE WO IE SITE, STAGING AREA OR PATH ACTOR SHALL LIMIT HIS/HER AC	ORK, ESPECIALLY BUT NOT LIN OF TRAVEL TO EITHER.	/ITED TO ASPHALT PAVING
SECTION 4-517 [B])			SO AS TO LI CONSTRUC	MIT HIS/HER LIABILITY FOR DAMA TION MANAGER OR OWNER. SHALL BE IN ACCORDANCE WITH	AGED PROPERTY UNLESS OT	HERWISE PERMITTED BY TH
I FIND THAT:	<ul> <li>ALL DRAWINGS OR SHEETS LISTED ON THE COV INDEX SHEET</li> <li>THIS DRAWING OR PAGE</li> </ul>	/ER OR		OR IS RESPONSIBLE FOR OBTAIN RUCTION EXCEPT DSA APPROVAL		PRIOR TO COMMENCEMEN
DESIGN INTENT, AN	OORDINATED WITH THE PROJECT PLANS	7-16-2021	"CLR" MEAN CONDITION	GIONS SHALL BE FACE OF STUD, I I CLEAR DIMENSION TO FACE OF S AND NOTIFY ARCHITECT OF AN N THESE DRAWINGS ARE NEW U	FINISH. VERIFY ALL EXISTING IY DISCREPANCIES FOUND.	
	GENERAL RESPONSIBLE CHARGE	4	CONSTRUC SHALL BE A 11. ALL UTILITII	ALL WORK OUTSIDE THE "EXTEN TION MANAGER INCLUDING ACCI PPROVED BY THE OWNER PRIOF ES REQUIRED FOR THE CONTINU AINTAINED IN SERVICE AT ALL TIM	ESS AND STORAGE. THE CONS R TO THE START OF CONSTRU IOUS OPERATION OF ALL EXIS	STRUCTION SCHEDULE CTION. TING FACILITIES TO REMAIN
W.LEE POLLARD ARCHITECT OF RECORD	C-13315         11-30-2021           D         LICENSE #         EXPIRATION D	DATE	BE COORDI	NATED WITH THE CONSTRUCTIO	N MANAGER TWO WEEKS PRI	OR TO THE REQUESTED
			QUALITY, AN 13. THE CONTR	BED DURING THE COURSE OF TH ND PERFORMANCE. RACTOR SHALL CONTAIN ALL DUS	ST AND DEBRIS TO THE CONS	TRUCTION AREA. BROOM
			14. ALL REMOD	SIDEWALKS AND DRIVEWAYS EA DELED ITEMS LISTED TO BE SALV DE AS DIRECTED BY THE OWNER.	AGED FOR THE OWNER SHAL	L BE DELIVERED TO A PLAC
			15. ALL WORK	SHALL BE EXECUTED IN A CAREF CE TO THE PUBLIC AND TO OCCU		
			ABOUT THE HAZARDS IN	RACTOR SHALL ASSUME SOLE RE CONSTRUCTION SITE, IN ACCOR ACCORDANCE WITH THE SAFET N PUBLISHED BY THE ASSOCIATI	RDANCE WITH APPLICABLE LAN ITY PROVISIONS OF THE LATES	WS AND CODES. GUARD AL ST MANUAL OF ACCIDENT
ADN	INISTRATIVE REQUIREMENT	ſS	A. COORDIN UPON TH WORK AI SUCH OT FAILURE	NATION WITH OTHER CONTRACT IE WORK OF A SEPARATE CONTR ND PROMPTLY REPORT IN WRITH THER WORK THAT RENDER IT UN OF THIS CONTRACTOR TO SO IN OTHER CONTRACTOR'S WORK, E	S: IF ANY PART OF THIS CONT RACTOR, THIS CONTRACTOR S NG TO THE CONSTRUCTION M SUITABLE TO RECEIVE THE W SPECT AND REPORT SHALL C	RACTOR'S WORK DEPENDS SHALL INSPECT SUCH OTHE ANAGER ANY DEFECTS IN ORK OF THIS CONTRACTOF ONSTITUTE AN ACCEPTANC
ADMINISTRATION BUILDIN TITLE 24, CALIFORNIA CO BY THE CONTRACT DOCU TITLE 24, CALIFORNIA CO	WINGS AND SPECIFICATIONS IS TO MODERNIZE EXISTIN NGS IN AN EXISTING ELEMENTARY SCHOOL CAMPUS IN A DDE OF REGULATIONS. SHOULD ANY CONDITIONS DEVEL UMENTS SUCH THAT THE FINISHED WORK WILL NOT CON DDE OF REGULATIONS, CONSTRUCTION DOCUMENT(S) D RED WORK SHALL BE SUBMITTED AND APPROVED BY DS	ACCORDANCE WITH ELOP NOT COVERED MPLY WITH THE SAID DETAILING AND	B. COORDIN COMPLE BY OTHE THE COM	CTOR'S WORK AFTER EXECUTIO NATION SCHEDULE: PORTIONS C TED ON SCHEDULE IN ORDER FC RS. COORDINATION WITH THE C IPLETION DATES FOR DESIGNAT CATIONS FOR LIQUIDATED DAMAG	OF WORK UNDER THIS CONTR OR OTHER NOT-IN-CONTRACT CONSTRUCTION MANAGER ANI ED PORTIONS OF WORK ARE I	ACTOR'S WORK MUST BE WORK TO BE COMPLETED D STRICT ADHERENCE TO
	2, TITLE 24 C.C.R. SHALL BE KEPT ON THE JOB SITE AT	ALL TIMES DURING	OR AS OUTI	N IS NOT NECESSARILY LIMITED LINED IN THE SPECIFICATIONS. T N REQUIRED TO COMPLETE THE	THE INTENT IS TO INDICATE GE	ENERAL SCOPE OF
OWNER AND APPROVED APPROVED BY DSA PER S ALL TESTS TO CONFROM	ANGE DOCUMENTS AND ADDENDA TO BE SIGNED BY THE BY DSA. CONSTRUCTION CHANGE DOCUMENT(S) ARE N SECTION 4-338, PART 1, TITLE 24. I TO THE REQUIREMENTS OF SECTION 4-335, PART 1 TIT	NOT VALID UNTIL FLE 24.	DISPOSAL C ANY FORM A ARCHITECT	IS NOT RESPONSIBLE FOR THE OF, OR EXPOSURE OF PERSONS AT THE PROJECT SITE. TO THE E S PARTICIPATION IS SOLELY AD OR EXECUTION OF SUCH DOCUME	TO, HAZARDOUS MATERIALS ( XTENT THESE DOCUMENTS R MINISTRATIVE WITHOUT ANY F	OR TOXIC SUBSTANCES IN ELATE TO SUCH ISSUES,
PART 1, TITLE 24 AND THE MAY BE BACK CHARGED	ND TESTING LABORATORY SHALL BE IN ACCORDANCE W E DISTRICT SHALL EMPLOY AND PAY THE LABORATORY TO THE CONTRACTOR. AT THE START OF CONSTRUCTION AND PRIOR TO THE	2. COSTSOF RE-TEST	ENTERING A SUBCONTRA	ULAR IMPORTANCE IS THE NEED A POSSIBLY HAZARDOUS AREA, II ACTORS, OTHER CONTRACTORS O THE CONTRACTOR, ARE AWAF	NCLUDING SUPERINTENDENT 5, AND OTHER PERSONS NOT I	S, WORKERS,
CONCRETE PER SECTION		SHALL BE APPROVED	AND SEALE	ND DUCT PENETRATIONS THROU D TO MAINTAIN THE REQUIRED R	ATING.	
INSPECTOR SHALL BE IN	ACCORDANCE WITH SECTION 4-342, PART 1, TITLE 24. RUCTION BY DSA SHALL BE IN ACCORDANCE WITH SEC		BEEN TESTI APPROVED	AWINGS WITH REFERENCES TO F ED BY UNDERWRITERS LABORAT TESTING AGENCY, SHALL BE CO ES CONTAINED IN THE REFEREN	ORIES, THE CALIFORNIA BUIL	DING CODE OR ANY OTHE
DSA-6 IN ACCORDANCE V D. THE ARCHITECT AND THE WITH SECTION 4-333(A) A I. THE CONTRACTOR SHAL	OR, ARCHITECT, AND ENGINEERS SHALL SUBMIT VERIFIE WITH SECTION 4-336 AND 4-343, PART 1, TITLE 24. IE STRUCTURAL ENGINEER SHALL PERFORM THEIR DUT AND 4-341, PART 1, TITLE 24. LL PERFORM HIS DUTIES IN ACCORDANCE WITH SECTION	TIES INACCORDANCE	WORK, WHI PDF OF THE REPRESEN <sup>T</sup> ADDITIONAL	OR TO MAINTAIN CONTEMPORAN CH SHALL BE MARKED IN COLOR E "AS-BUILT" DRAWINGS AND SPE TATIVE PRIOR TO FINAL APPLICA INFORMATION AND REQUIREME ARE NEW UNLESS OTHERWISE N	ON THE DRAWINGS AND SPE CIFICATIONS SHALL BE TURN TION FOR PAYMENT. REFER T INTS.	CIFICATIONS. A SCANNED ED OVER TO THE OWNER'S
<sup>24.</sup>	IPPLEMENTAL NOTES			DEFERREI	D APPROVA	LS
			NONE			

3/4" = 1'-0"

# SAN RAFAEL CITY SCHOOLS SAN RAFAEL HIGH SCHOOL **AD BUILDING REMODEL**

# 150 3RD STREET, SAN RAFAEL, CA 94901

**APPLICABLE CODES** 

2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, CCR BASED ON THE

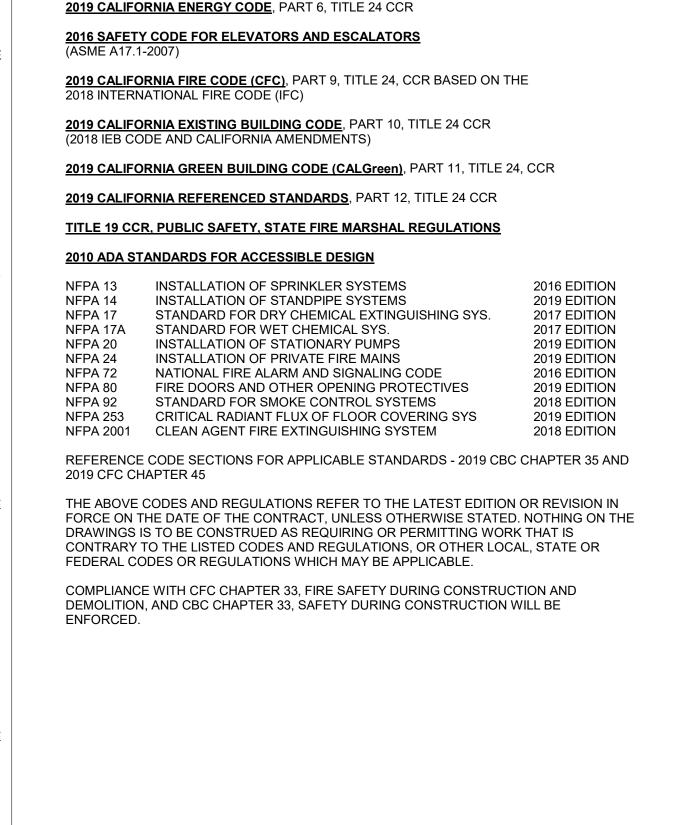
2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, CCR BASED ON THE

2018 UNIFORM MECHANICAL CODE (UMC)

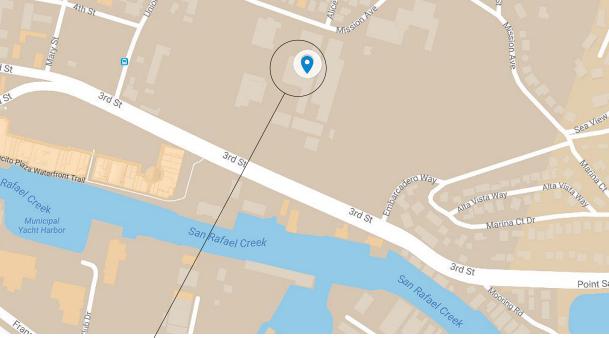
2018 UNIFORM PLUMBING CODE (UPC)

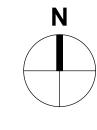
# IOTES

TRACTOR TO SEE TO IT THAT ALL MATERIALS AND/OR IIN THESE DOCUMENTS, BE FURNISHED AND OR HAT MATERIAL OR WORK WITHIN THE DOCUMENTS ENTAL) OF THAT MATERIAL OR WORK BY A	ALL WORK PERFORMED UNDER THIS CONTRACT IS TO CONFORM TO THE FOLLOWING CODES AND REGULATIONS:
SUB, SHALL CONSIDER THESE DOCUMENTS IN	2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
CTIONS BETWEEN PORTIONS OF THESE DOCUMENTS RCHITECT AT LEAST 48 HRS PRIOR TO BID OPENING IPTION OR INSTRUCTION SHALL BE IN FORCE UNTIL	<u>2019 CALIFORNIA BUILDING CODE (CBC)</u> , PART 2, TITLE 24, CCR BASED ON THE 2018 INTERNATIONAL BUILDING CODE (IBC)
TIONAL COST TO THE OWNER. ING AND MAINTAINING TEMPORARY FENCING AND	2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, CCR BASED ON THE 2018 NATIONAL ELECTRICAL CODE (NEC)
SECURITY AND CONTROL MEASURES NECESSARY	

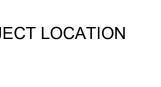


VICINITY MAP NO SCALE





**PROJECT LOCATION** 



1" = 1'-0"

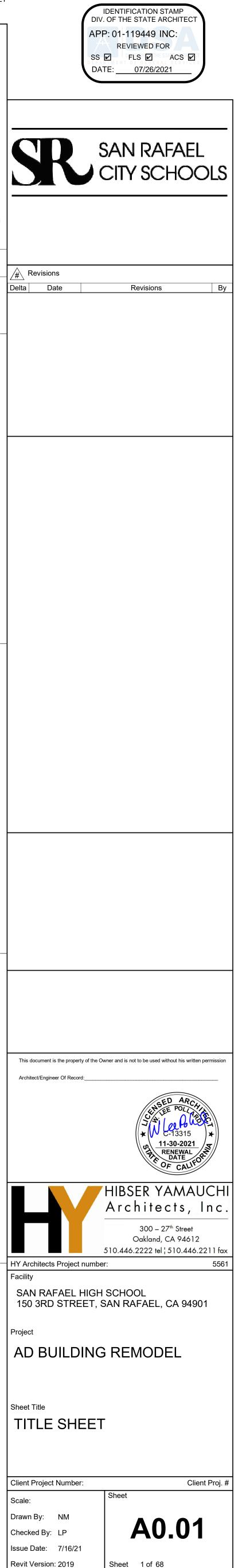
**OWNER** 

3" = 1'-0"

# **FILE: 21-H1 APPL: 01-119449**

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OMILIN			
SAN RAFAEL CITY SCHOOLS		ARCHITECTU	RAI .
	EL. (415) 492-3285 AX. (415) 492-3229	A0.01	TITLE SHEET
DIRECTOR OF CAPITAL FACULTIES: DAN ZAICH	AX. (415) 492-3229	A0.02 A0.03	SYMBOLS, LEGENDS AND ABBREVIATIONS FIRE LIFE SAFETY & CODE ANALYSIS FLOOR PLAN
SAN RAFAEL HIGH SCHOOL		A0.03 A0.04	ACCESSIBILITY SITE PLAN
	EL. (415) 485-2330	A0.05	EMERGENCY VEHICLE ACCESS PLAN
SAN RAFAEL, CA 94901 PRINCIPAL: GLEN DENNIS		A2.01 A2.03	DEMOLITION PLAN OVERALL FLOOR PLAN
PROGRAM MANAGER		A2.04	ROOF PLAN
	EL. (707) 933-0624	A3.20 A3.30	BUILDING SECTIONS WALL SECTIONS
621 WEST SPAIN STREET, FA	AX. (707) 996-8390	A3.00 A4.01	ENLARGED FLOOR PLANS
SONOMA, CA 95476 CONTACT: JOHN DILENA		A4.02	ENLARGED FLOOR PLANS
	ITO	A4.03 A5.01	ENLARGED FLOOR PLANS INTERIOR ELEVATIONS
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	510) 446-2211	A9.02	INTERIOR DETAILS - SUSPENDED ACOUSTIC CEILING DETAILS
		A9.03	
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	15) 243-4091		
601 MONTGOMERY STREET, #1450 SAN FRANCISCO, CA 94111	,	STRUCTURAL S0.1	GENERAL NOTES AND SPECIFICATIONS
CONTACT: ANGIE SOMMER		S1.1	TYPICAL CFS DETAILS
		S1.2 S2.1	TYPICAL MISCELLANEOUS DETAILS FIRST FLOOR FRAMING PLAN
MECHANICAL / PLUMBING CAPITAL ENGINEERING CONSULTANTS TEL. (9	916) 851-3500	S2.2	SECOND FLOOR FRAMING PLAN
11020 SUN CENTER DRIVE, SUITE 100		S2.3	ROOF FRAMING PLAN
RANCHO CORDOVA, CA 95670 CONTACT: TOM DUVAL		S5.1	DETAILS
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3397 MT. DIABLO BLVD., SUITE C LAFAYETTE, CA 94549		M1.2 M2.1	MECHANICAL ROOF DEMOLITION PLAN MECHANICAL FIRST FLOOR PLAN
CONTACT: TIFFANY KANE		M2.1 M2.2	MECHANICAL FIRST FLOOR PLAN MECHANICAL ROOF PLAN
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		E0.05	ELECTRICAL DETAILS
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1/8" = 1'-0"

€ <	AND ANGLE	HC HD	HOLLOW CORE HEAD
@	AT CENTERLINE	HDWD HDWE	HARDWOOD HARDWARE
Ø F	DIAMETER OR ROUND	НМ	HOLLOW METAL
T	PARALLEL PERPENDICULAR	HORIZ HR	HORIZONTAL HOUR
#	POUND OR NUMBER PROPERTY LINE	HT HWD	HEIGHT HOT WATER DISPENSER
AB ABV	ANCHOR BOLT ABOVE	ID INFO	INSIDE DIAMETER
A/C	AIR CONDITIONING	INSUL	INSULATION
AC ACOUS	ASPHALTIC CONCRETE ACOUSTICAL	INT	
ACP ACT	SUSPENDED ACOUSTIC PANEL CEILING ACOUSTIC PANEL CEILING	JAN JT	JANITOR JOINT
AD ADD	AREA DRAIN ADDITIONAL	K.S.	KNEE SPACE
ADJ AFF	ADJACENT ABOVE FINISHED FLOOR	KIT	KITCHEN
AGGR ALT	AGGREGATE ALTERNATE	LAB LAM	LABORATORY LAMINATE
ALUM ANOD	ALUMINIUM ANODIZED	LAV	LAVATORY
AP APPROX	ACESS PANEL APPROXIMATE	LNDG LT	LANDING
ARCH	ARCHITECTURAL	MAT	MATERIAL
BAL BD	BALANCE BOARD	MAX MB	MAXIMUM MACHINE BOLT
BLDG BLK	BUILDING BLOCK	MDF MECH	MEDIUM DENSITY FIREBOARD MECHANICAL
BLKG BM	BLOCKING BEAM OR BENCH MARK	MEMB MFR	MEMBRANE MANUFACTURER
вот	BOTTOM	MH	MANHOLE
BSMT BTWN	BASEMENT BETWEEN	MIN MISC	MINIMUM MISCELLANEOUS
BUR	BUILT-UP ROOFING	MO MOD	MASONRY OPENING MODULAR
CAB CB	CABINET CATCH BASIN	MS MTD	MACHINE SCREW MOUNTED
CEM CER	CEMENT CERAMIC	MTG MTL	MOUNTING METAL
CFCI CG	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	MUL	MULLION
CI CJ	CAST IRON CONTROL JOINT	(N) N	NEW NORTH
CLG CLKG	CEILING CAULKING	NIC NO or #	NOT IN CONTRACT NUMBER
CLO CLR	CLOSET CLEAR	NOM NTS	NOMINAL NOT TO SCALE
CLRM	CLASSROOM		
CMU CNTR	CONCRETE MASONRY UNIT COUNTER	OC OD	ON CENTER OUTSIDE DIAMETER
CNTRTOP CO	COUNTERTOP CLEAN OUT	OFCI OFOI	OWNER FURNISHED CONTRACTOR OWNER FURNISHED OWNER INSTAL
COL COMB	COLUMN COMBINATION	OFS OH	OUTSIDE FACE OF STUD OPPOSITE HAND
COMP CONC	COMPOSITION CONCRETE	OPNG OPP	OPENING OPPOSITE
CONN CONST	CONNECTION CONSTRUCTION	PL	PLATE
CONT	CONTINUOUS CORRIDOR	PLAM PLAS	PLASTIC LAMINATE PLASTER
CR	CURTAIN ROD	PLYWD	PLYWOOD
CT CTR	CERAMIC TILE CENTER	PR PT	PAIR POINT
CTSK CW	COUNTERSUNK COLD WATER	PTD PTD/R	PAPER TOWEL DISPENSER COMBINATION PAPERTOWEL
DBL	DOUBLE	PTN	DISPENSER/RECEPTABLE PARTITION
DEMO DEPT	DEMOLITION DEPARTMENT	PTR PVC	PAPER TOWEL RECEPTABLE POLYVINYL CHLORIDE
DF DI	DRINKING FOUNTAIN DRAIN OR DROP INLET	QT	QUARRY TILE
DIA DIAG	DIAMETER DIAGONAL	R	RISER
DIM DISP	DIMENSION DISPENSER	RAD RB	RADIUS RESILIENT BASE
DIV	DIVISION	RCP	REFLECTED CEILING PLAN ROOF DRAIN
	DOWN	RD	
NC DO	DOWN DOOR OPENING	RD (RE) REF	RELOCATED REFERENCE
DN DO DR DS	DOWN DOOR OPENING DOOR DOWNSPOUT	(RE) REF REFL	RELOCATED REFERENCE REFLECTED
DN DO DR DS DTL DW	DOWN DOOR OPENING DOOR DOWNSPOUT DETAIL DISHWASHER	(RE) REF REFL REFR REINF	RELOCATED REFERENCE REFLECTED REFRIGERATOR REINFORCED
DN DO DR DS DTL DW DWG	DOWN DOOR OPENING DOOR DOWNSPOUT DETAIL	(RE) REF REFL REFR REINF REQ RESIL	RELOCATED REFERENCE REFLECTED REFRIGERATOR REINFORCED REQUIRED RESILIENT
DN DO DR DS DTL DW DWG DWR	DOWN DOOR OPENING DOOR DOWNSPOUT DETAIL DISHWASHER DRAWING	(RE) REF REFL REFR REINF REQ RESIL RGTR RH	RELOCATED REFERENCE REFLECTED REFRIGERATOR REINFORCED REQUIRED
DN DO DR DS DTL DW DWG DWR (E) E	DOWN DOOR OPENING DOOR DOWNSPOUT DETAIL DISHWASHER DRAWING DRAWER	(RE) REF REFL REFR REINF REQ RESIL RGTR	RELOCATED REFERENCE REFLECTED REFRIGERATOR REINFORCED REQUIRED RESILIENT REGISTER
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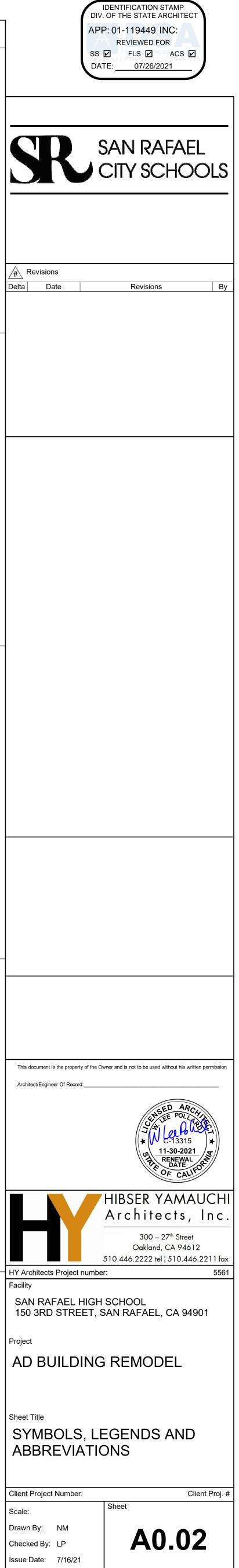
0 1' 12'   12' 1/4" = 1'-0"	0 1' 6'   1/2" = 1'-0"	<b>0</b> 	4' 	0 1'	3' 1" = 1'-0"	0 2' 1 1/2" = 1'-0"	0 1' IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT SCALE ACCORDINGL 3" = 1'-0"
					ABBREVIATIO	NS - SCHOOLS	SYMBOLS
							A
	Ę	AND	HC	HOLLOW CORE	VER		
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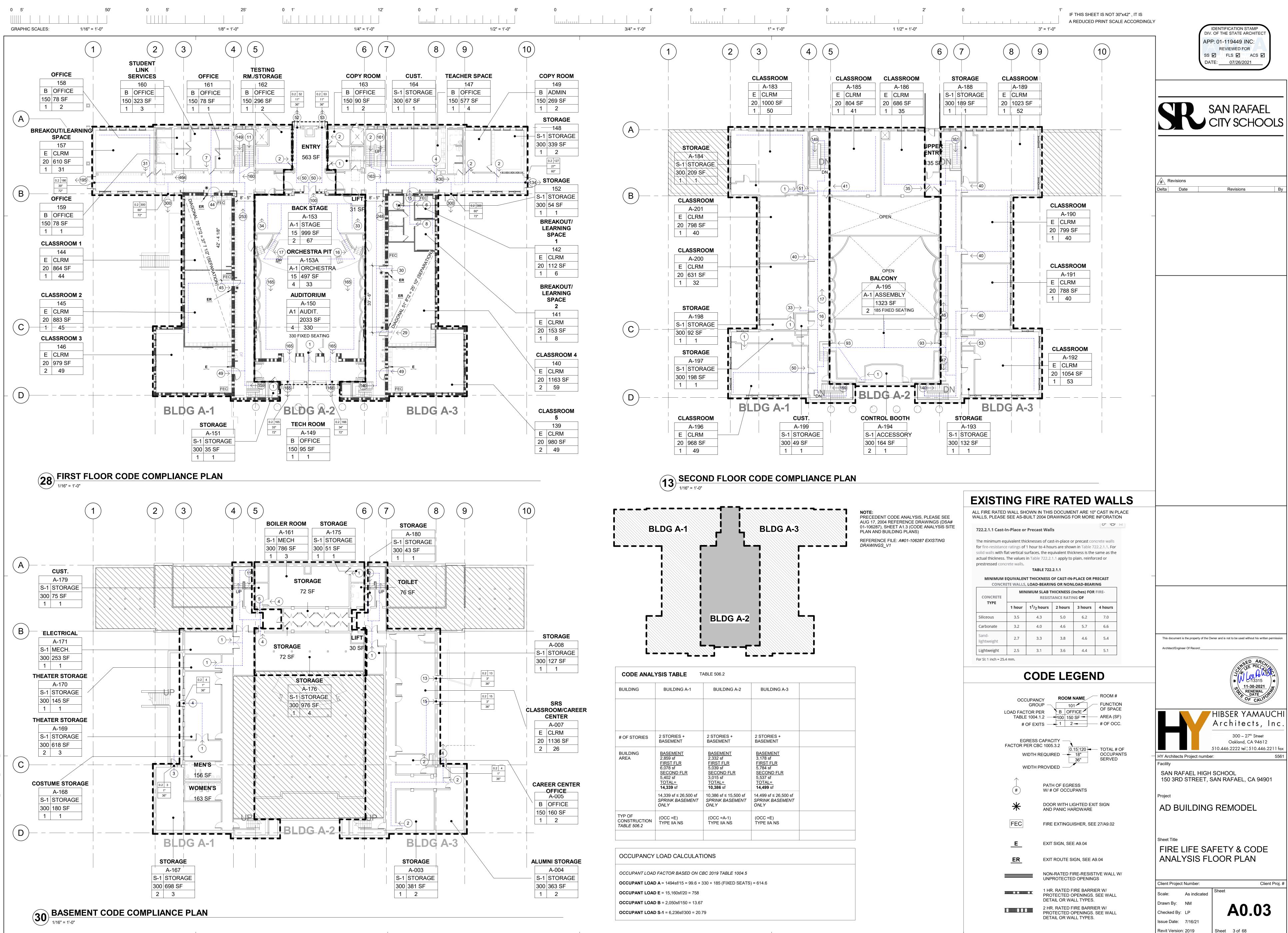
1 1/2" = 1'-0"	3" = 1'-0"	
TIONS - SCHOOLS	SYMBOLS	
VERT VERTICAL VEST VESTIBULE VTR VENT THROUGH ROOF W WEST OR WIRE	A 1 COLUMN LINE BUILDING ELEVATION 1 ELEVATION IDENTIFICATION	
w/WITHW/HWATER HEATERW/OWITHOUTWCWATER CLOSETWDWOODWDWWINDOWWOWHERE OCCURSWPWATERPROOFWTWEIGHTWWMWOVEN WIRE MESH	A3.01 - SHEET WHERE ELEVATION IS SHOWN BUILDING OR WALL SECTION - SECTION IDENTIFICATION - SHEET WHERE SECTION IS SHOWN DETAIL - DETAIL IDENTIFICATION - SHEET WHERE DETAIL IS SHOWN (- MEANS DETAIL SHOWN ON SAME SHEET)	
	INTERIOR ELEVATION(S) SHEET WHERE ELEVATION SHOWN A (A5.01 NO ARROWS MEAN ELEVATION NOT SHOWN DETAIL NO. OF ELEVATION WORK POINT, CONTROL POINT OR DATUM POINT REVISIONS	
	ROOM IDENTIFICATION (TYPE 1) CORR - ROOM NAME 2088 - ROOM NUMBER ROOM IDENTIFICATION (TYPE 2)	
	CORR ROOM NAME 2088 ROOM NUMBER 2088 CEILING HEIGHT (OTHER THAN 9'-0" SHEETNOTE TAG REFER TO SHEETNOTE LIST LOCATED ON PLAN SHEETS	
	AREA OF NO WORK DOOR SYMBOL	
	(E) DOOR MARK SEE DOOR SCHEDULE (E) DOOR TO REMAIN (E) DOOR TO BE REMOVED	
	(N) DOOR & DOOR FRAME	

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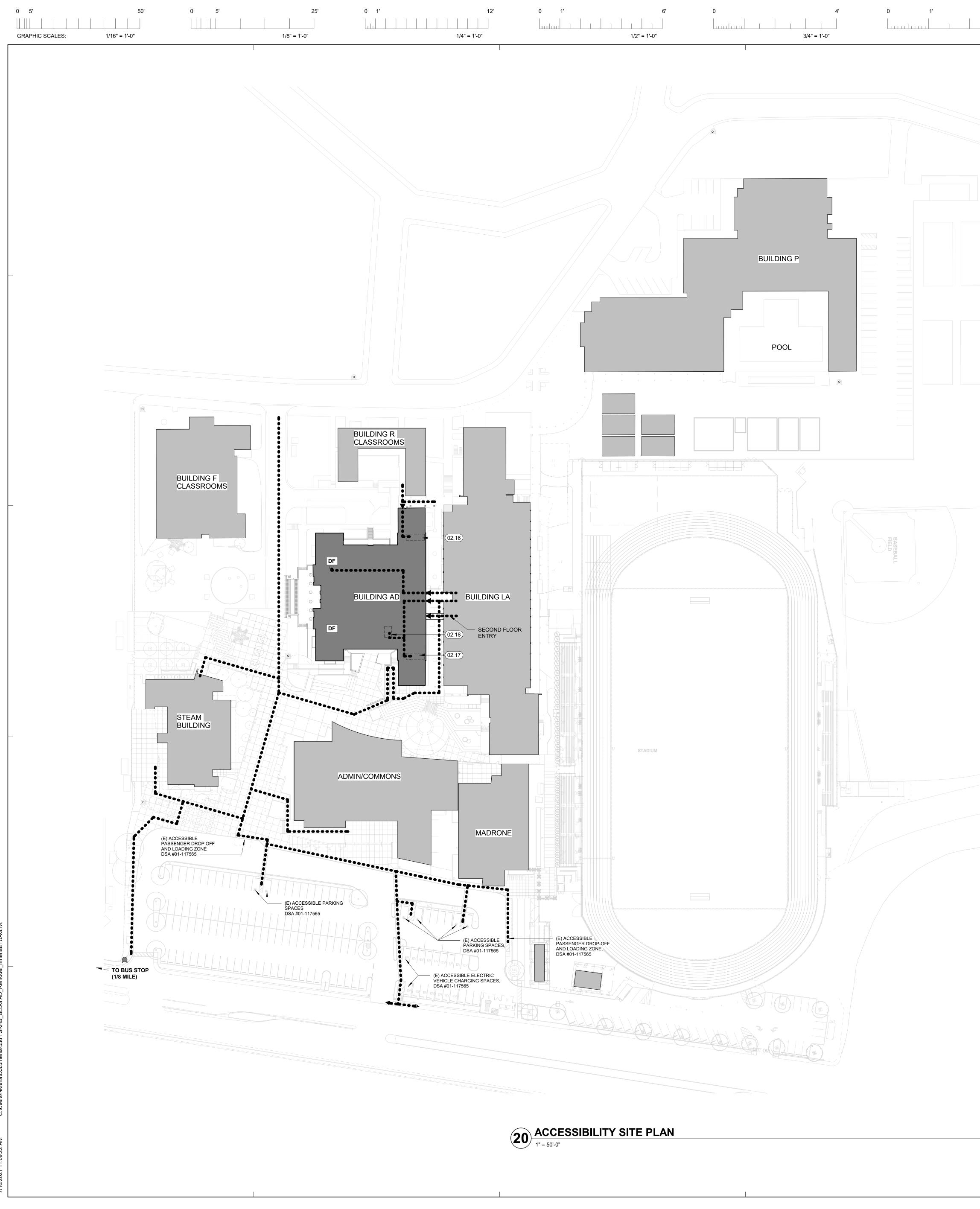
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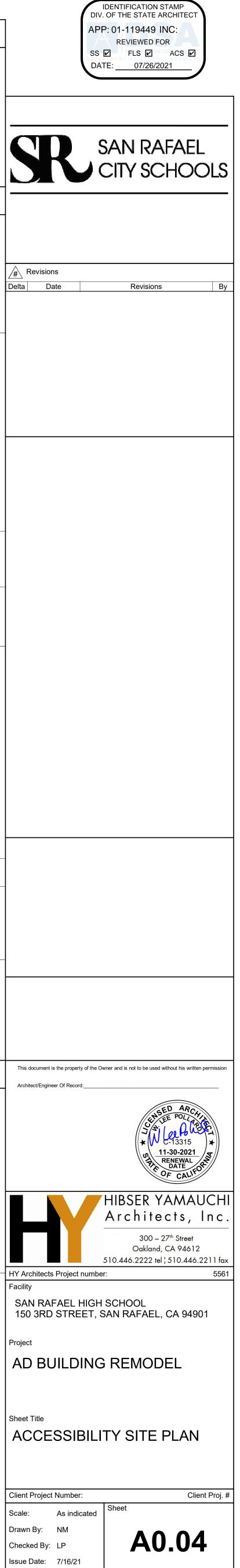




CONCRETE WALLS, LOAD-BEARING OR NONLOAD-BEARING								
CONCRETE	MINIMUM SLAB THICKNESS (inches) FOR FIRE- RESISTANCE RATING OF							
TYPE	1 hour	1 <sup>1</sup> / <sub>2</sub> hours	2 hours	3 hours	4 hours			
Siliceous	3.5	4.3	5.0	6.2	7.0			
Carbonate	3.2	4.0	4.6	5.7	6.6			
Sand- lightweight	2.7	3.3	3.8	4.6	5.4			
Lightweight	2.5	3.1	3.6	4.4	5.1			
For SI: 1 inch = 25.4 mm.								

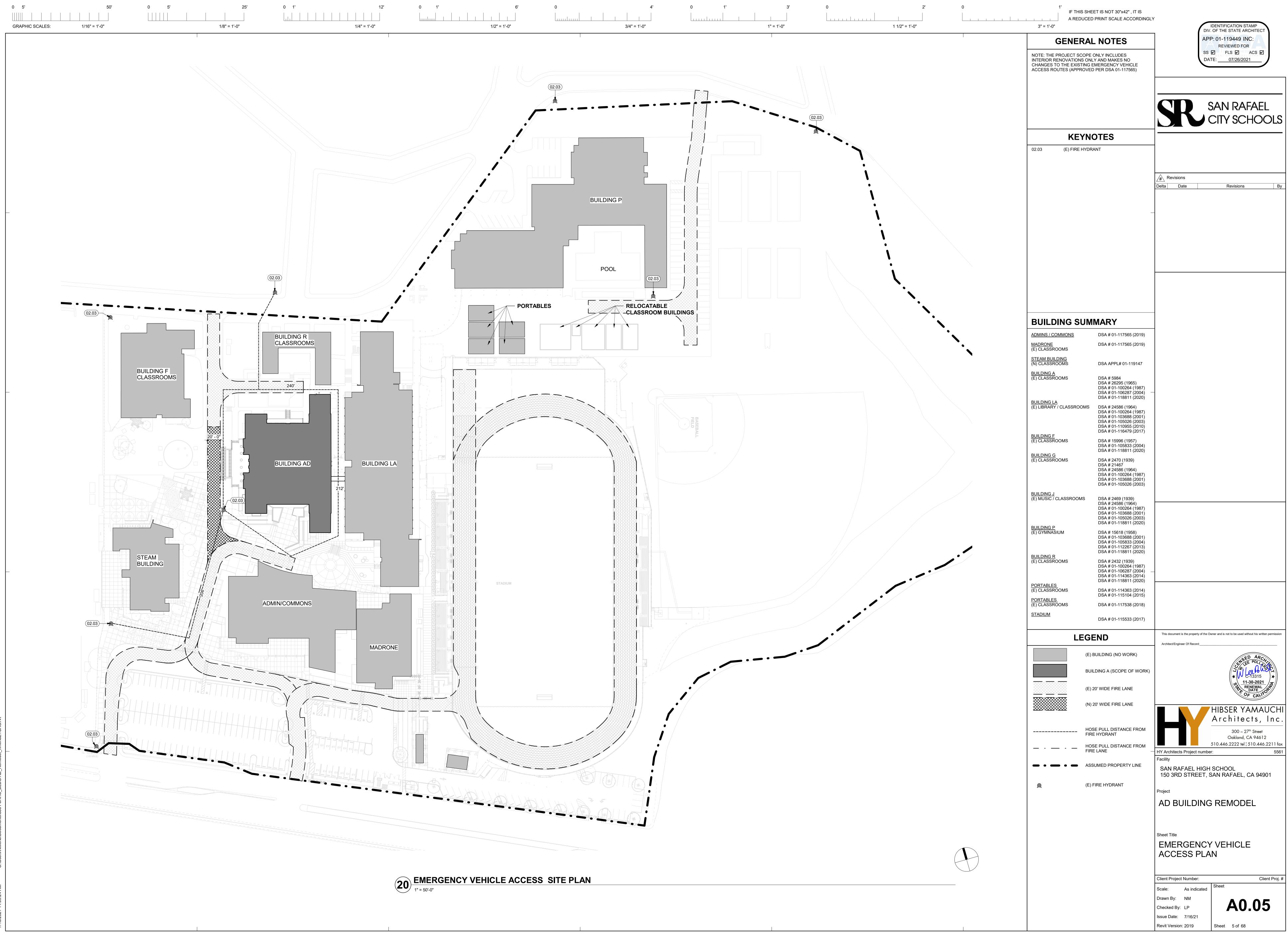


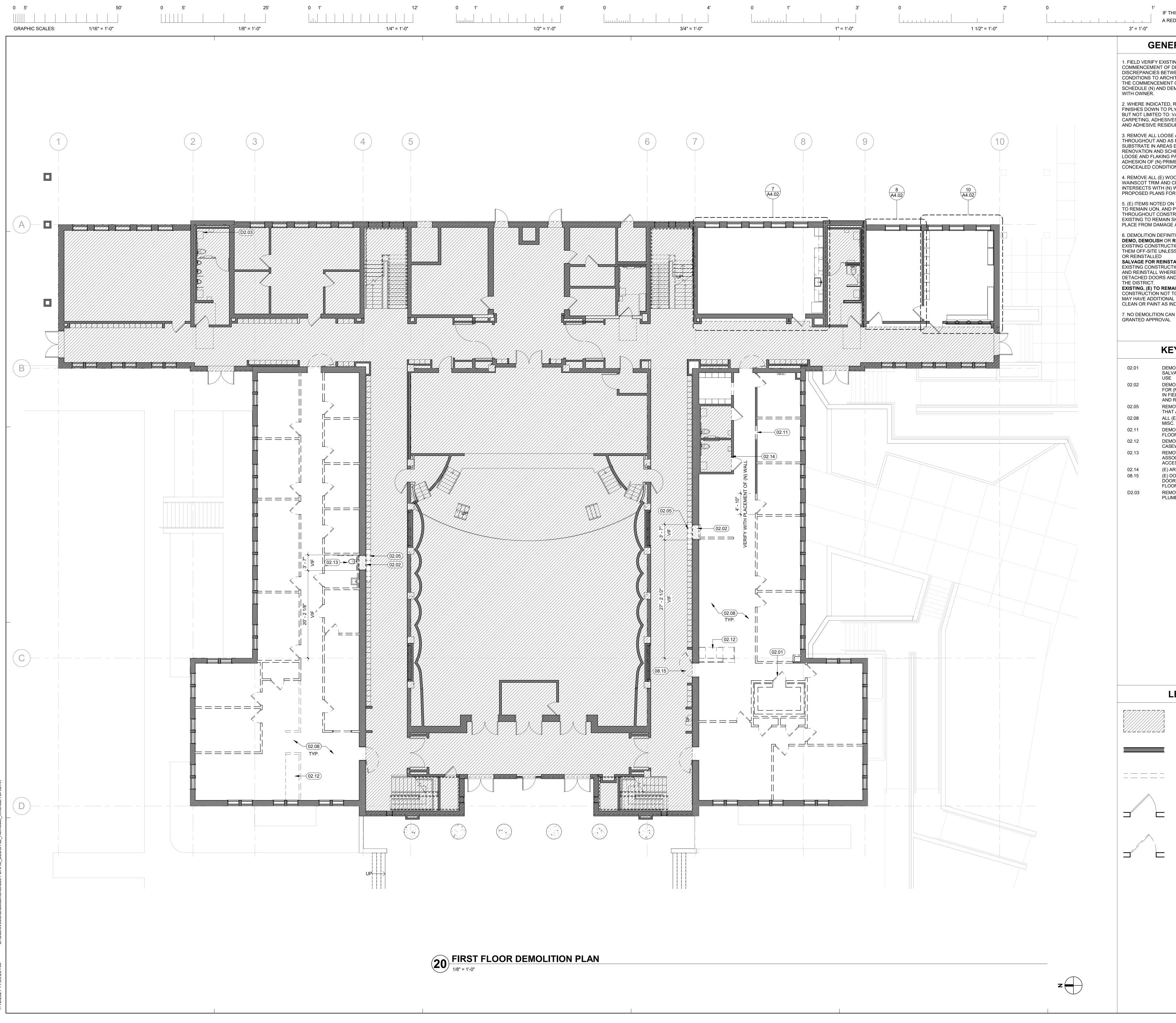
3'	0	2' 	0	1' IF THIS SHEET IS NOT : A REDUCED PRINT SCA 3" = 1'-0"	
		1 1/2 - 1-0		GENERAL NOT	ES
				<ol> <li>4" MAX DROP BETWEEN WALKING ADJACENT GRADE, TYP. U.O.N.</li> <li>EXISTING PARKING LOT IS ACCES DSA APPLICATION #01-117565 INCI PARKING SPACES AND PATH OF T EXISTING BUILDINGS. PATH OF TF IMPROVEMENTS FOR THE NEW BU ALIGN WITH EXISTING PATH OF TF LIMIT OF WORK.</li> <li>SEE SHEET A9.04 FOR ACCESSIBL SIGNAGE</li> <li>CERTIFICATION OF DSA A#01-1175 PRIOR TO CERTIFICATION OF THIS</li> </ol>	SIBLE UNDER LUDING ALL RAVEL TO ALL RAVEL UILDING WILL RAVEL AT THE LE DIRECTION 565 IS REQUIRED
				KEYNOTES	
				02.16 (E) ACCISSIBLE BOY'S RE 02.17 (E) ACCESSIBLE GIRL'S R 02.18 (E) ACCESSIBLE STAFF R	ESTROOM
				DESIGN PROFESSIC GENERAL RESPON CHARGE STATEN	ISIBLE
				THE PATH OF TRAVEL (POT) IDENTIFIED I CONSTRUCTION DOCUMENTS IS COMPLI CURRENT APPLICABLE CALIFORNIA BUILI ACCESSIBILITY PROVISIONS FOR PATH O REQUIREMENTS FOR ALTERATIONS, ADD STRUCTURAL REPAIRS.	IANT WITH THE DING CODE DF TRAVEL
				AS PART OF THE DESIGN OF THIS PROJE WAS EXAMINED AND ANY ELEMENTS, CO PORTIONS OF THE POT THAT WERE DETI NONCOMPLIANT 1) HAVE BEEN IDENTIFIE CORRECTIVE WORK NECESSARY TO BRI COMPLIANCE HAS BEEN INCLUDED WITH OF THIS PROJECT'S WORK THROUGH DE DRAWINGS AND SPECIFICATIONS INCORI THESE CONSTRUCTION DOCUMENTS. AN NONCOMPLIANT ELEMENTS, COMPONEN PORTIONS OF THE POT THAT WILL NOT E BY THIS PROJECT BASED ON VALUATION LIMITATIONS OR A FINDING OF UNREASO HARDSHIP ARE SO INDICATED IN THESE O DOCUMENTS.	OMPONENTS OR ERMINED TO BE ED AND 2) THE NG THEM INTO IIN THE SCOPE ETAILS, PORATED INTO Y ITS OR BE CORRECTED I THRESHOLD ONABLE CONSTRUCTION WITHIN THE O AS CODE FORMING
				BEYOND REASONABLE CONSTRUCTION THEY SHALL BE BROUGHT INTO COMPLIA CBC AS A PART OF THIS PROJECT BY ME CONSTRUCTION CHANGE DOCUMENT." PARKING COUI	TOLERANCES, ANCE WITH THE ANS OF A
				STANDARD SPACES: 115 ACCESSIBLE SPACES: 6 (1 ELECTRIC VEHICEL: 16	VAN & 5 AUTO) 1 VAN & 1 AUTO)
				LEGEND ACCESSIBLE ROUTE SE NEW WORK THE ACCESSIBLE ROUT ON PLAN IS A BARRIER P WITHOUT ANY ABRUPT CHANGES EXCEEDING 1 12 MAX. SLOPE, OR VEF CHANGES NOT EXCEED AND AT LEAST 36" IN WI IS STABLE, FIRM, AND S CROSS SLOPE DOES NO AND SLOPE IN THE DIRE TRAVEL IS LESS THAN 1 OTHERWISE INDICATED ACCESSIBLE ROUTE SH MAINTAINED FREE OF O OBSTRUCTIONS TO 80" PROTRUDING OBJECTS THAN 4" PROJECTION FI ABOVE 27" AND LESS TH CONTRACTOR TO VERIF BARRIERS HAVE BEEN FI COMPLIANCE WITH CBO ACCESSIBLE BUILDING FI EV ELECTRIC VEHICLE PAR (E) BUILDING (NO WORK	E AS INDICATED FREE ROUTE LEVEL 1/2" BEVELED AT RTICAL LEVEL DING 1/4" MAX. DTH. SURFACE LIP RESISTANT. DT EXCEED 1:48 ECTION OF :20 UNLESS D. THE IALL BE DVERHANGING MIN., AND GREATER ROM WALL AND HAN 80". — FY ALL REMOVED AND C 11B. ENTRANCE
				BUILDING A (SCOPE OF	WORK)



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## **GENERAL NOTES**

1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF DEMOLITION WORK. REPORT ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL FIELD CONDITIONS TO ARCHITECT AND ENGINEER PRIOR TO THE COMMENCEMENT OF DEMOLITION WORK. SCHEDULE (N) AND DEMOLITION WORK IN ADVANCE

2. WHERE INDICATED, REMOVE ALL EXISTING FLOOR FINISHES DOWN TO PLYWOOD SUBSTRATE, INCLUDING BUT NOT LIMITED TO: VAT AND VCT, LINOLEUM, CARPETING, ADHESIVES, UNDERLAYMENT, SEALERS AND ADHESIVE RESIDUE.

3. REMOVE ALL LOOSE AND SPALLING PLASTER THROUGHOUT AND AS REQUIRED FOR A SOUND SUBSTRATE IN AREAS EXPOSED TO VIEW AFTER RENOVATION AND SCHEDULED FOR REPAIR. STRIP LOOSE AND FLAKING PAINT AS REQUIRED FOR PROPER ADHESION OF (N) PRIMER THROUGHOUT INCLUDING AT CONCEALED CONDITIONS.

4. REMOVE ALL (E) WOOD OR RUBBER BASE TRIM, WAINSCOT TRIN ÁND CROWN TRIM WHERE IT INTERSECTS WITH (N) WALL LOCATIONS. SEE PROPOSED PLANS FOR (N) WALL LOCATIONS.

5. (E) ITEMS NOTED ON THE PLANS SHALL BE EXISTING TO REMAIN UON, AND PROTECT IN PLACE, THROUGHOUT CONSTRUCTION. ALL ITEMS WHICH ARE EXISTING TO REMAIN SHALL BE PROTECTED IN PLACE FROM DAMAGE AND DUST.

6. DEMOLITION DEFINITIONS: DEMO, DEMOLISH OR REMOVE: DETACH ITEMS FROM EXISTING CONSTRUCTION AND LEGALLY DISPOSE OF THEM OFF-SITE UNLESS INDICATED TO BE SALVAGED SALVAGE FOR REINSTALLATION: DETACH ITEMS FROM

EXISTING CONSTRUCTION, PREPARE THEM FOR REUSE, AND REINSTALL WHERE INDICATED. SALVAGE ALL DETACHED DOORS AND FRAMES FOR LATER USE BY EXISTING, (E) TO REMAIN: EXISTING ITEMS OF CONSTRUCTION NOT TO BE REMOVED; EXISTING ITEMS

MAY HAVE ADDITIONAL WORK SUCH AS REPAIR, PATCH, CLEAN OR PAINT AS INDICATED

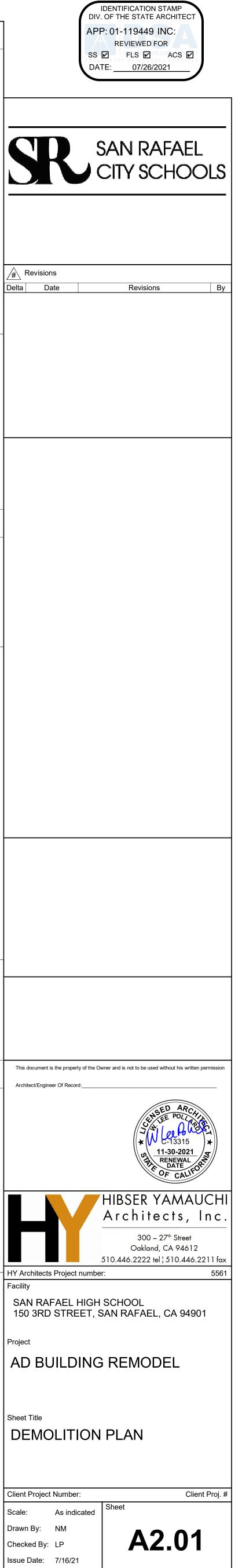
7. NO DEMOLITION CAN BEGIN UNTIL DSA HAS

# **KEYNOTES**

02.01	DEMO (E) CONCRETE VAULT, SALVAGE VAULT DOOR FOR FUTURE USE
02.02	DEMO (E) CONCRETE INFILL WALL FOR (N) OPENING. VERIFY LOCATION IN FIELD. LOCKERS TO BE SALVAGED AND REUSED
02.05	REMOVE FLOORING UNDER LOCKERS THAT ARE TO BE REMOVED
02.08	ALL (E) FLOORING, (E) CASEWORK & MISC. WALL TRIM TO BE REMOVED
02.11	DEMO AREA FOR (N) OPENING, SEE FLOOR PLAN (A2.03)
02.12	DEMOLISH (E) COUNTERTOP AND CASEWORK
02.13	REMOVE (E) WATER CLOSETS, ASSOCIATED PLUMBING AND ACCESSORIES
02.14	(E) AREA TO REMAIN, NOT IN SCOPE
08.15	(E) DOOR AND FRAME TO REMAIN. DOOR SWING TO BE FLIPPED, SEE FLOOR PLAN A2.03
D2.03	REMOVE (E) LAVATORY, ASSOCIATED PLUMBING AND ACCESSORIES

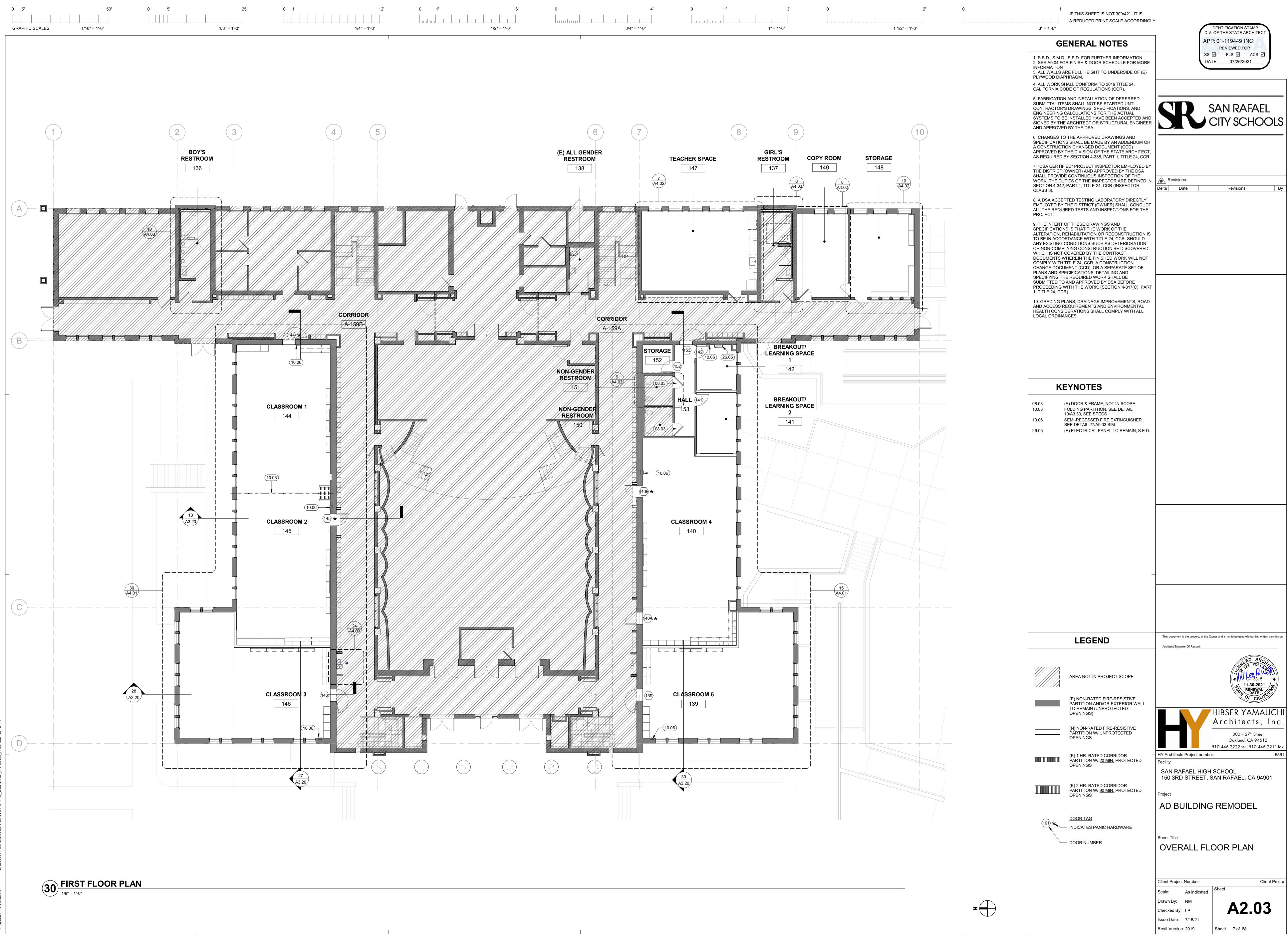
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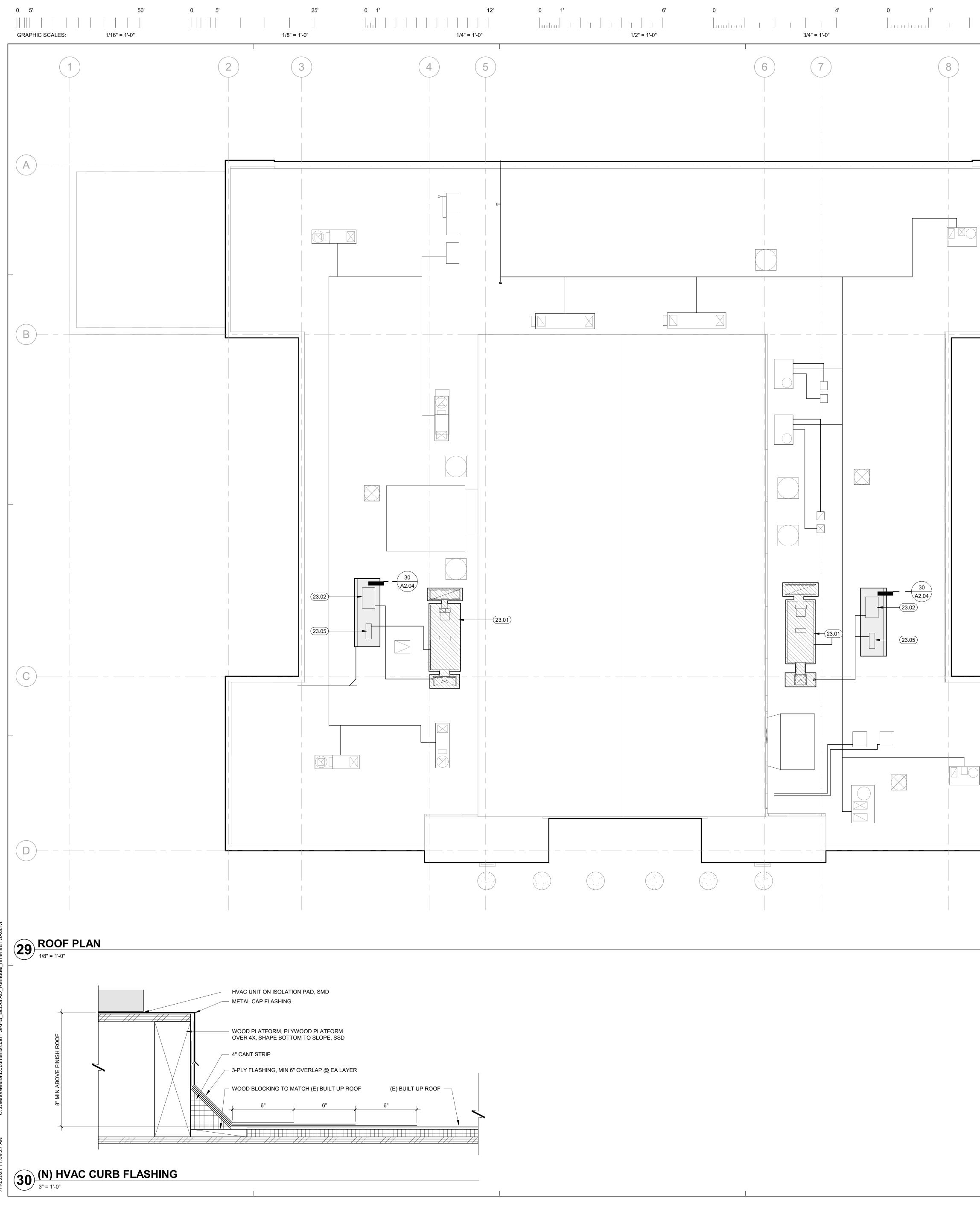
AREA NOT IN PROJECT SCOPE
(E) TO REMAIN
(E) TO BE DEMOLISHED
(E) DOOR TO REMAIN
(E) DOOR TO BE REMOVED



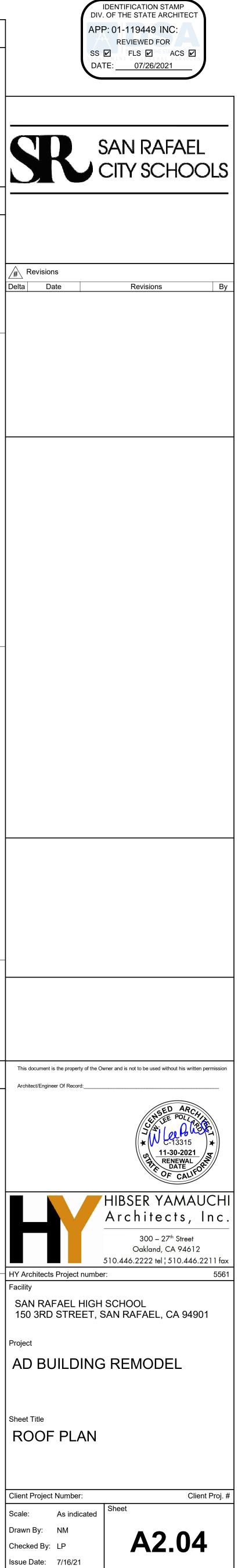
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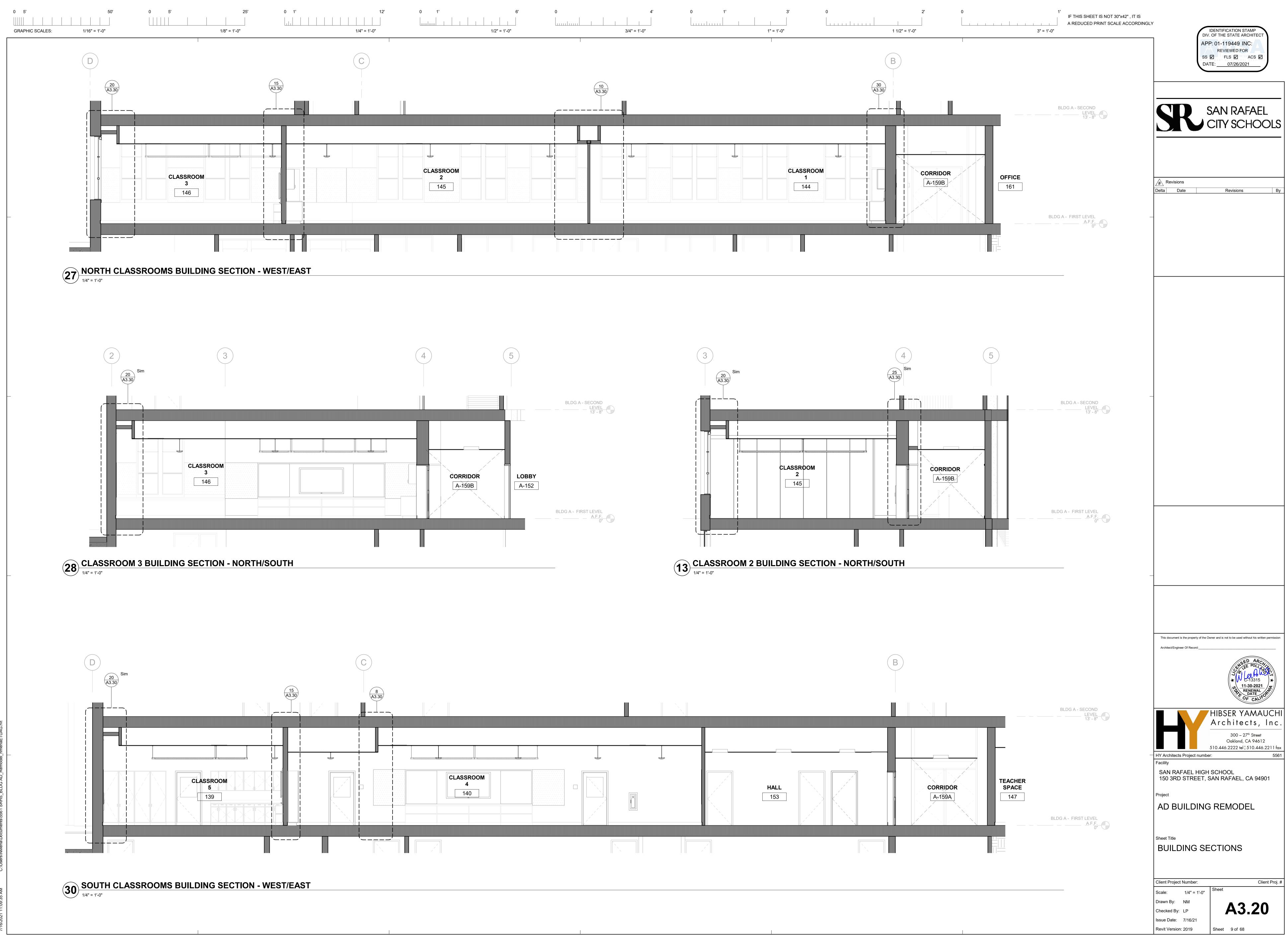




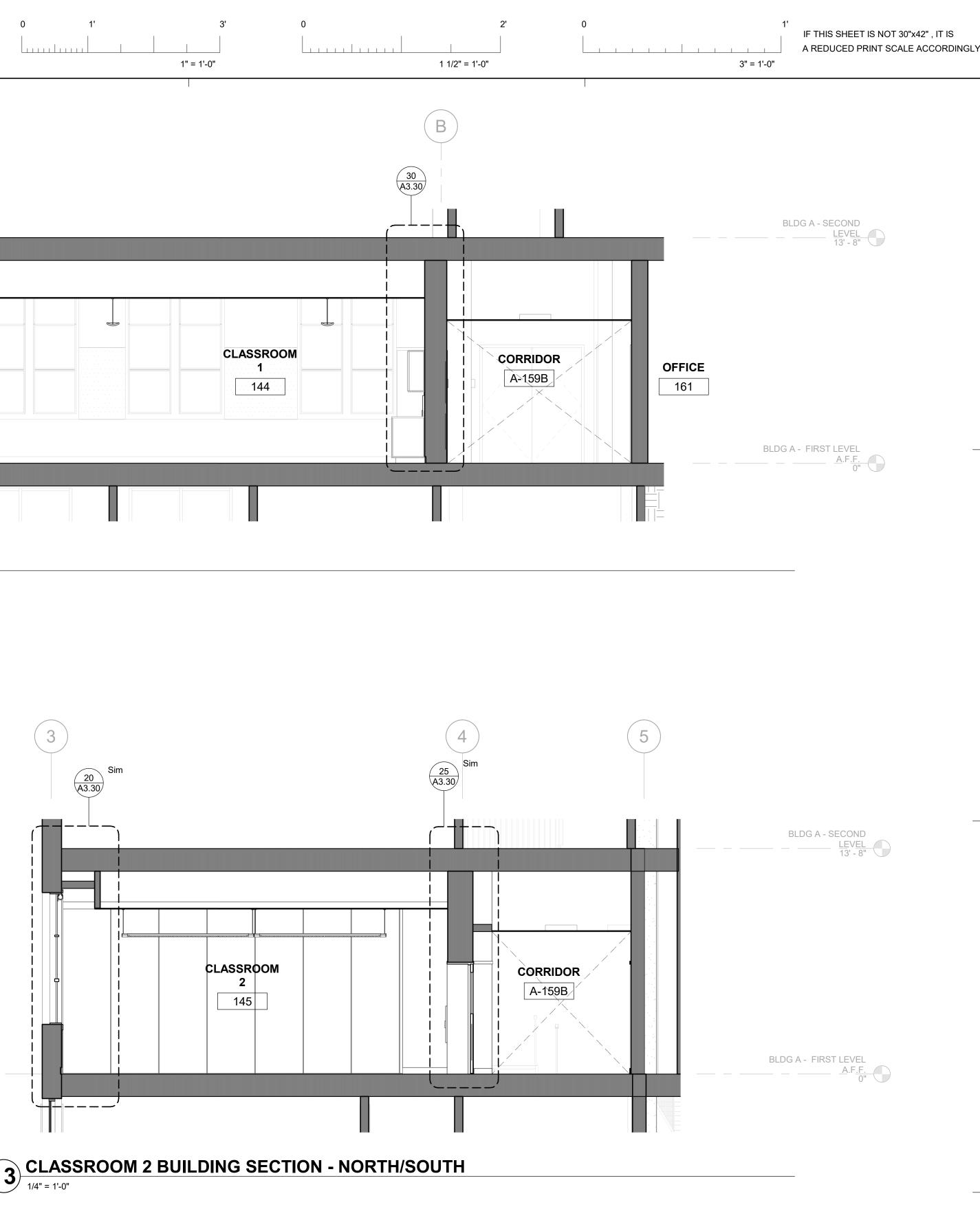
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	9	(10)	' -	GI	ENERAL NOTES	
						NK
			-		KEYNOTES	
			-	23.01 (N	) DOAS UNIT ON (E) CURB, SMD	
				23.02 (N	) OUTDOOR CONDENSING UNIT ON (N)	
				20.00 (N	) HEAT PUMP UNIT ON (N) CURB, SMD & SD	# Revisions
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			-		LEGEND	This document is the propert Architect/Engineer Of Record
	 				EXISTING MECHANICAL CURB	
					(NEW MECHANICAL CURB	
					_	HY Architects Project Facility
		-				SAN RAFAEL I 150 3RD STRE
						Project
						AD BUILD
						Sheet Title ROOF PL
						Client Project Number
						Scale: As indi
						Drawn By: NM Checked By: LP
I						Issue Date: 7/16/21 Revit Version: 2019
I						2010

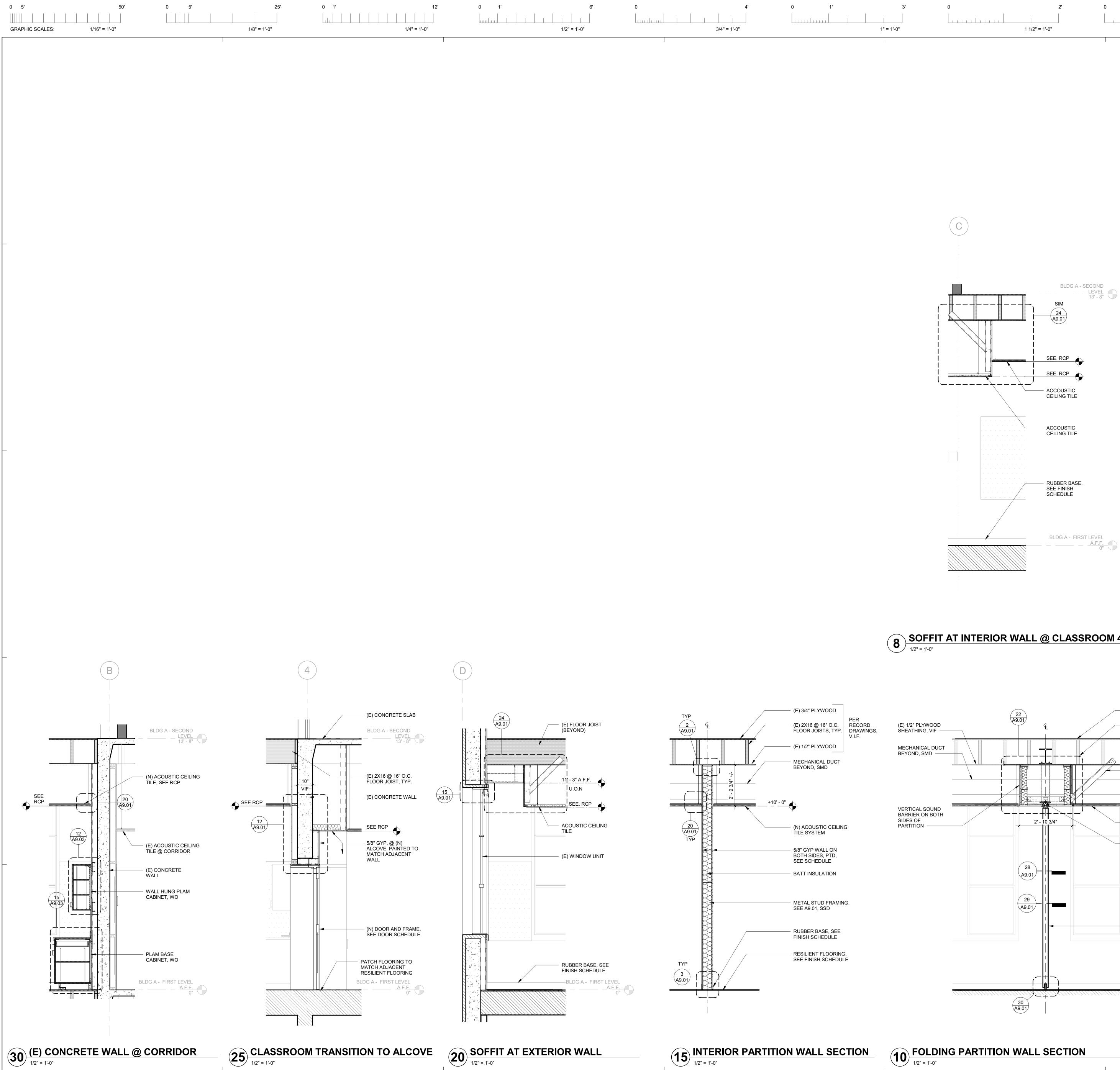


Sheet 8 of 68

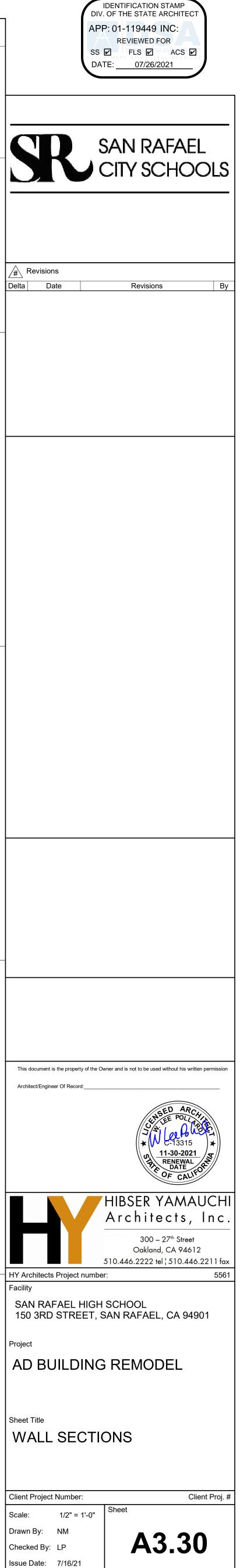


12'   1/4" = 1'-0"	0 1'	6' 	<b>0</b>	4' 	0 1'
C			I		
			10 (A3.30)		
	CLASSROOM 2 145				

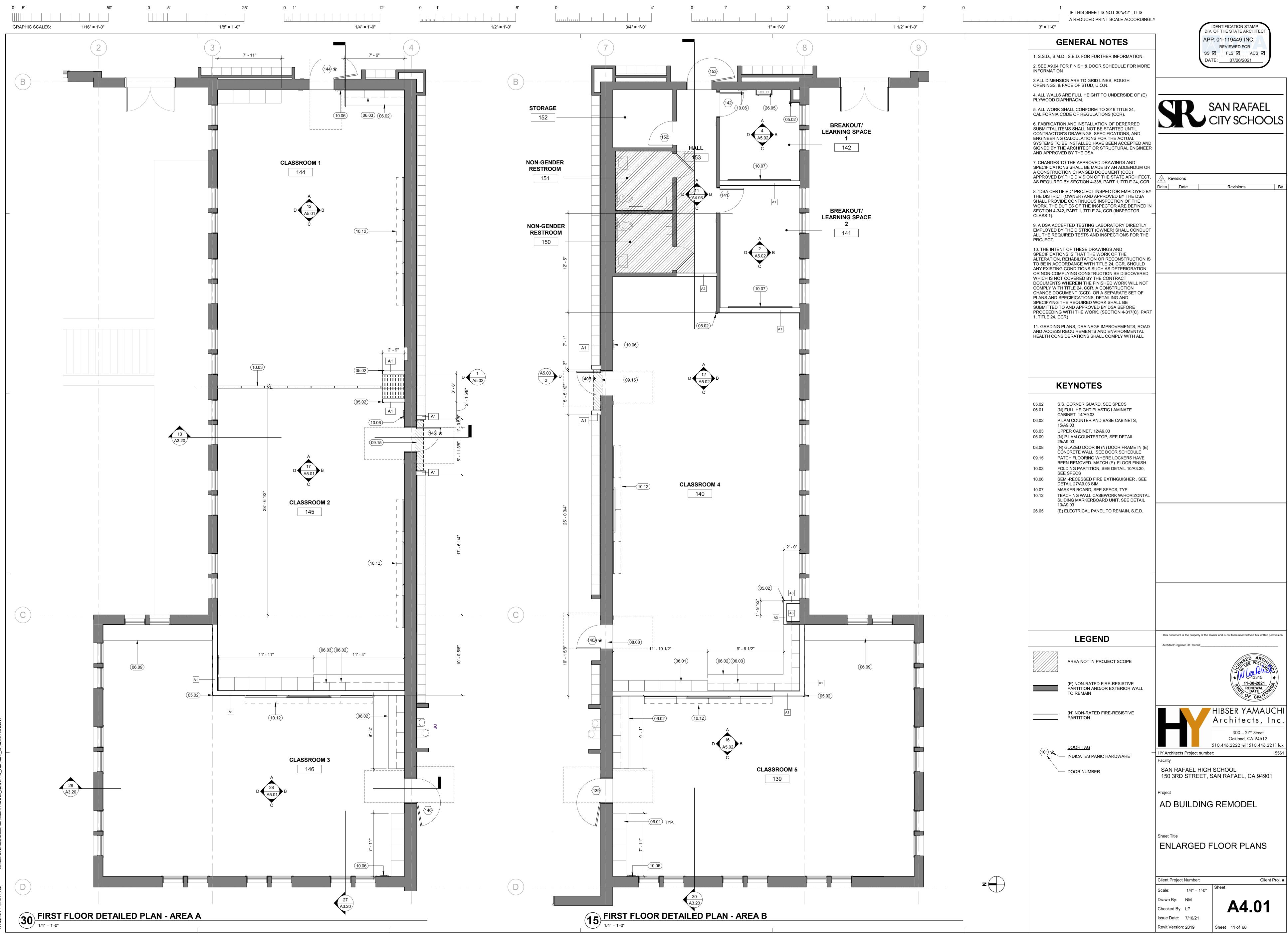




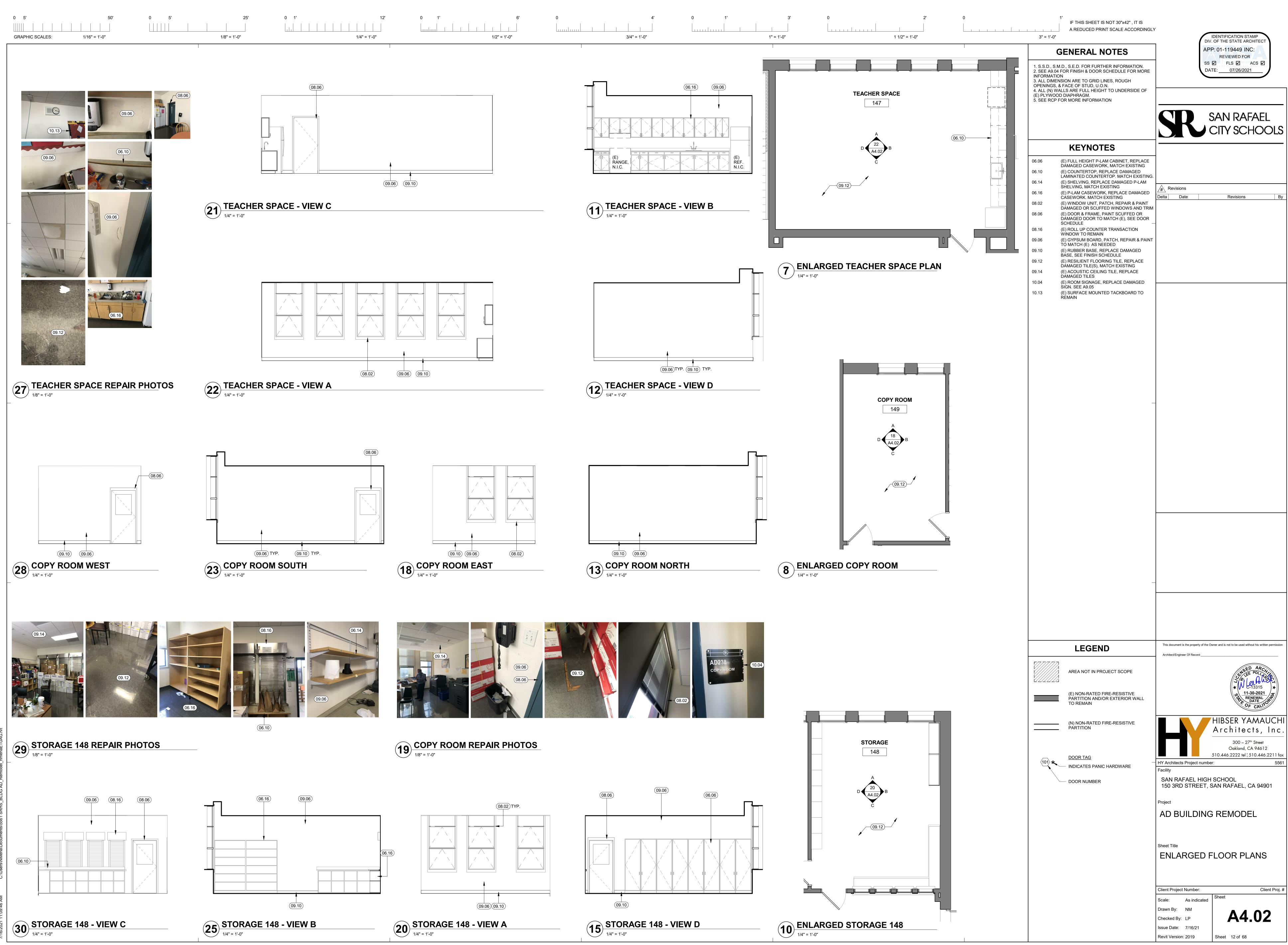
3' 	0 2' 0 1 1/2" = 1'-0"	1' IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORI 3" = 1'-0"	
		<b>GENERAL NOTES</b> 1. SEE SHEET A9.01 FOR WALL ASSEMBLIES         2. SEE SHEET A9.03 FOR FINISH SCHEDULE         3. SEE RCP FOR CEILING HEIGHTS	
	C BLDG A - SECOND LEVEL 13' - 8" SIM 24 49:01		#   Revisions     Delta   Date
	SEE. RCP SEE. RCP SEE. RCP ACCOUSTIC CEILING TILE ACCOUSTIC CEILING TILE		
<b>8 SOF</b> 1/2" = 1 <sup>4</sup>	FIT AT INTERIOR WALL @ CLASSROOM 4 -0"	(E) 3/4" PLYWOOD	
ID (E) 1/2" PLYW NGS, SHEATHING, MECHANICA BEYOND, SW VERTICAL SO BARRIER ON SIDES OF PARTITION	VOOD VIF IL DUCT ID ID ID ID ID ID ID ID ID ID ID ID ID	$\begin{array}{c} Floor Joists, Typ. \\ \hline \\ Floor Joists, Typ. \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	This document is the property of Architect/Engineer Of Record:
	LDING PARTITION WALL SECTION	OPERABLE PARTITION, SEE PLAN	Project         AD BUILDIN         Sheet Title         WALL SEC         Client Project Number:         Scale:       1/2" = 1'-         Drawn By:       NM         Checked By:       LP

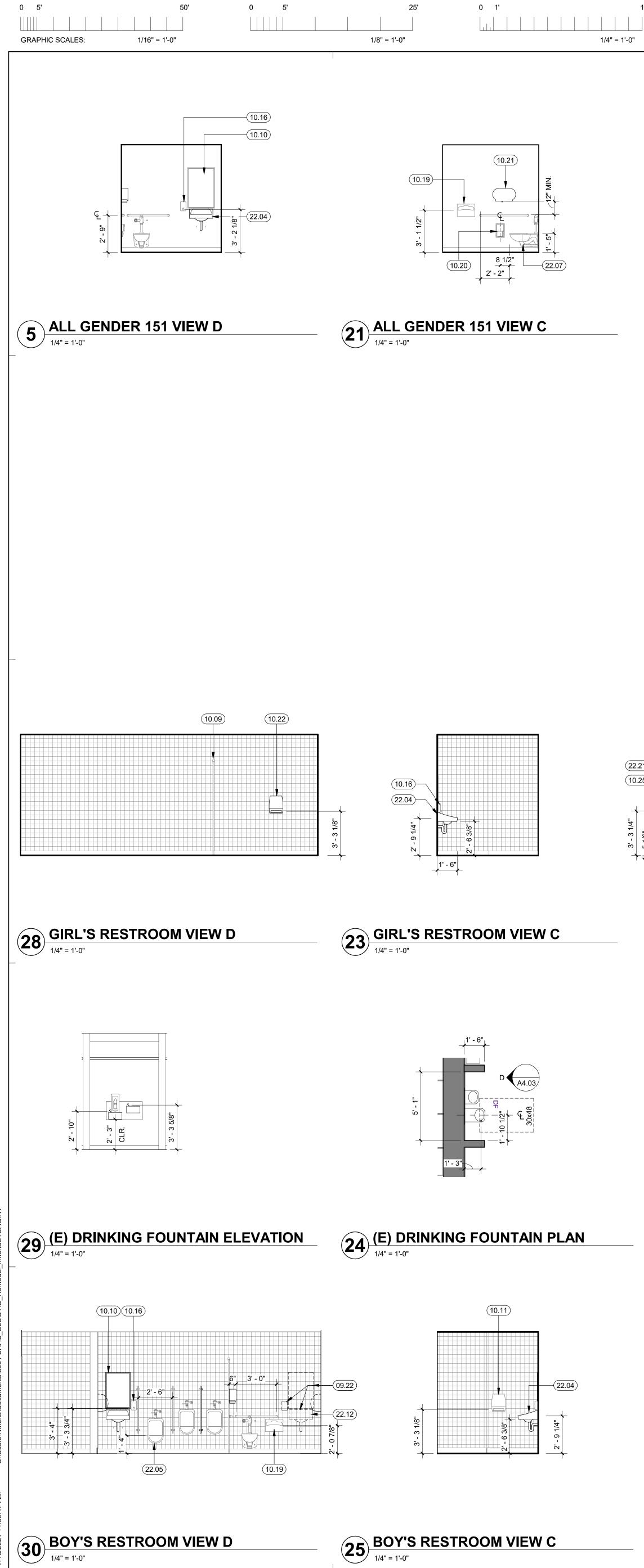


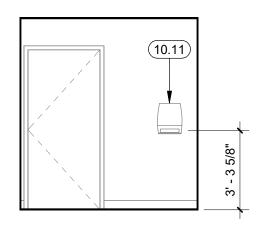
Sheet 10 of 68



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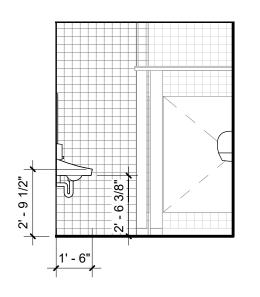




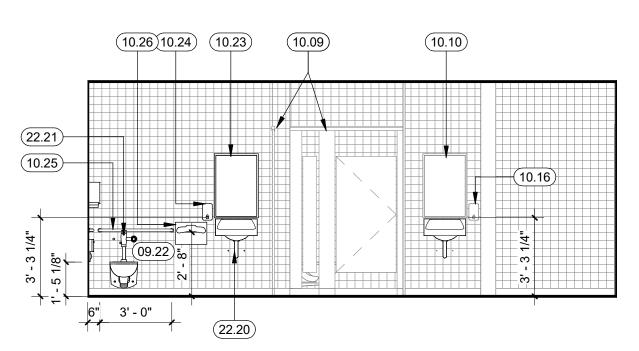
6'

1/2" = 1'-0"

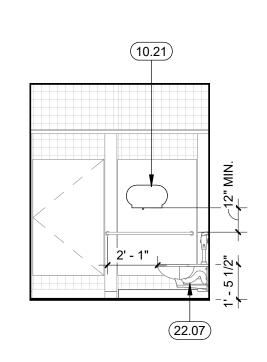




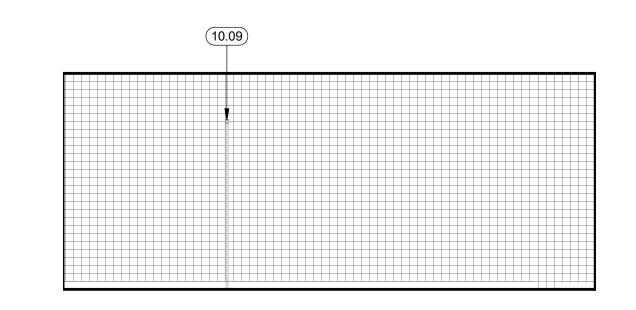


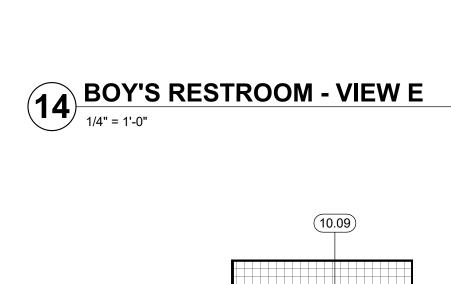


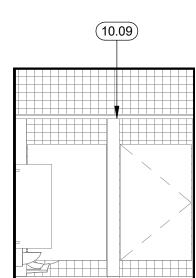


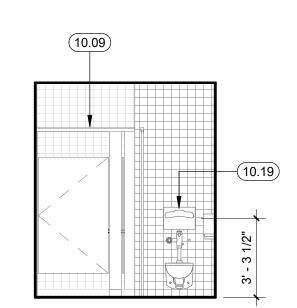






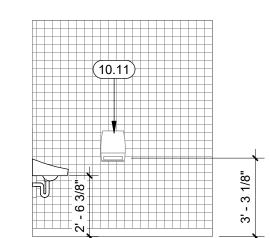




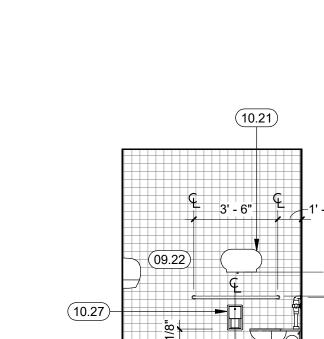


7 1/2"

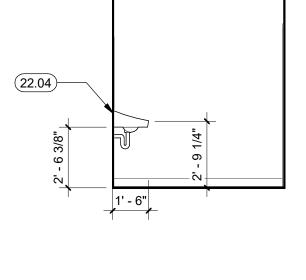






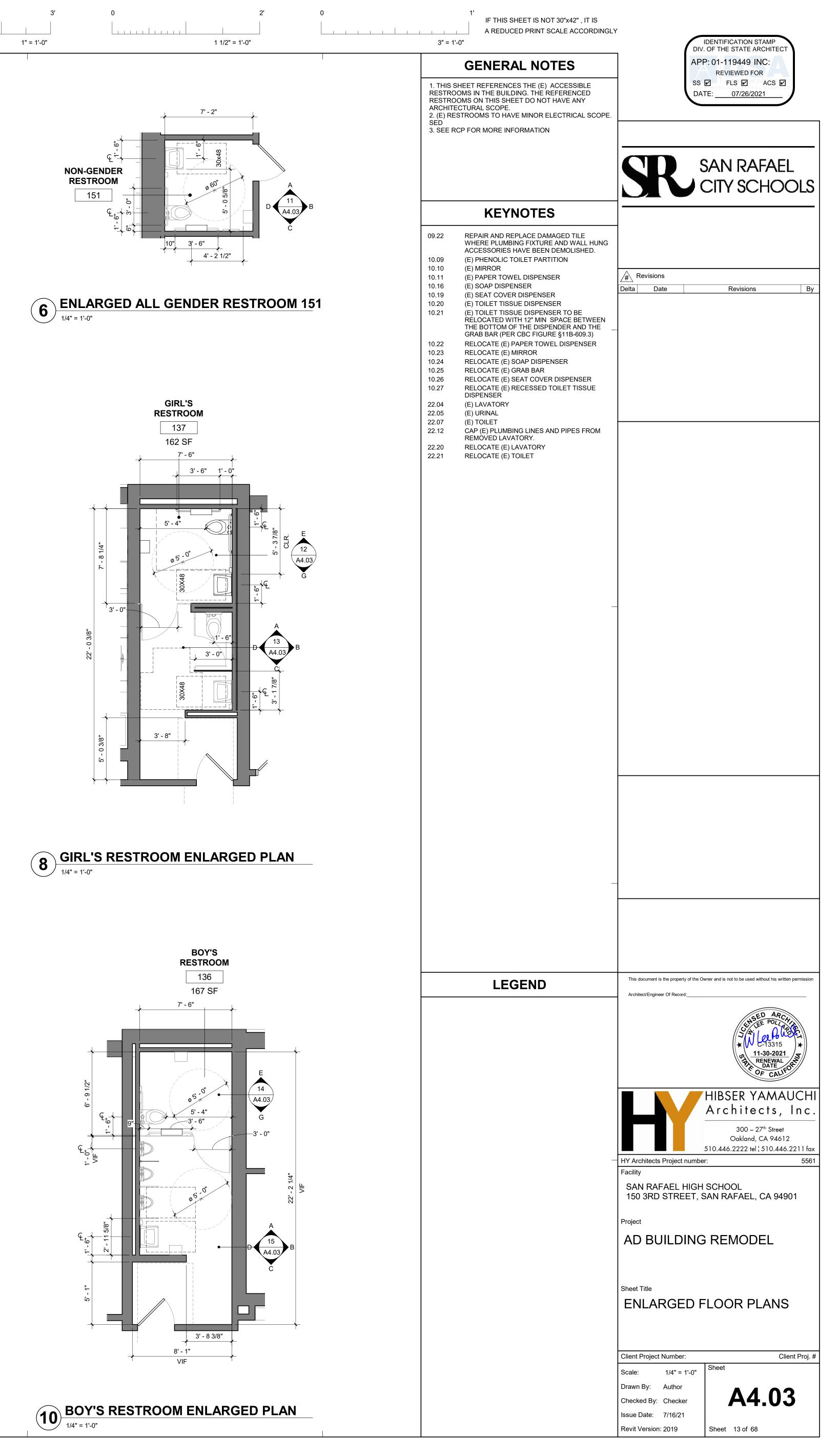


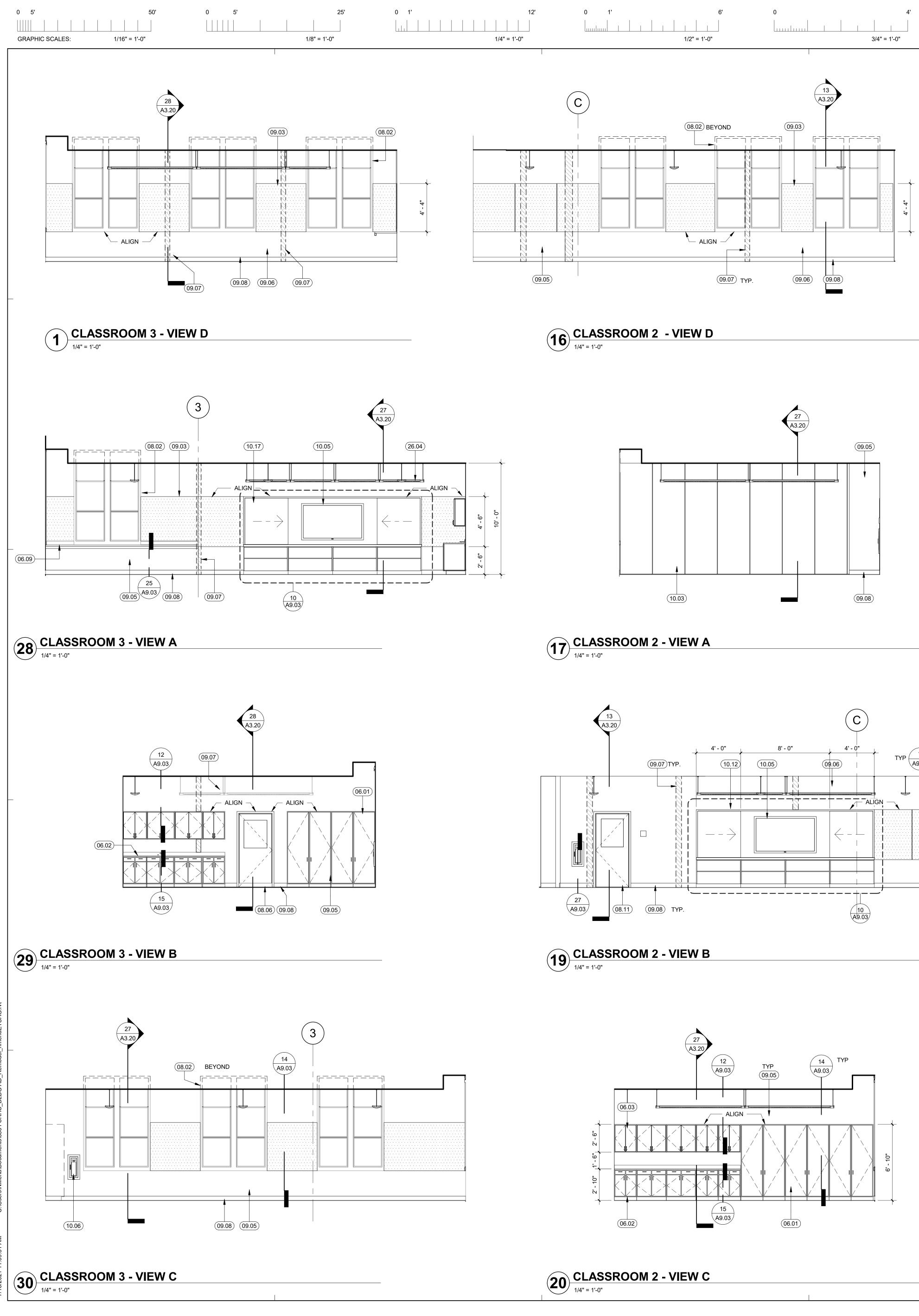
12 GIRL'S RESTROOM - VIEW E



# **ALL GENDER 151 VIEW A** 1/4" = 1'-0"

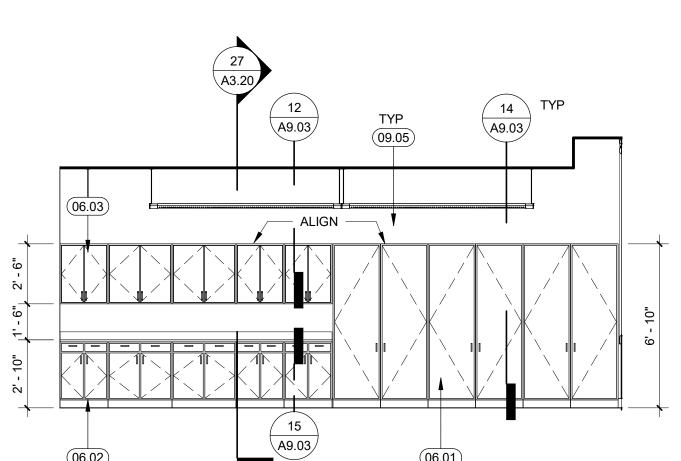
4'



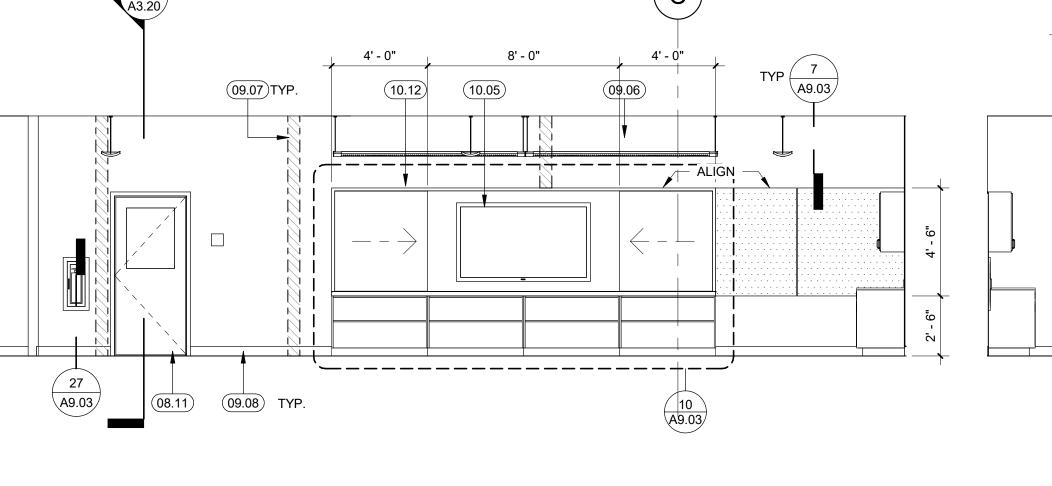


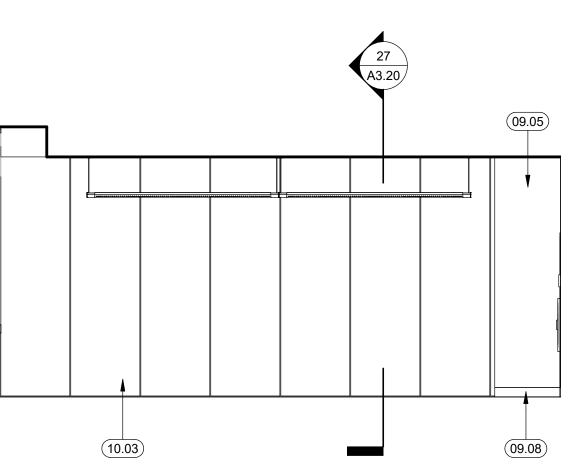


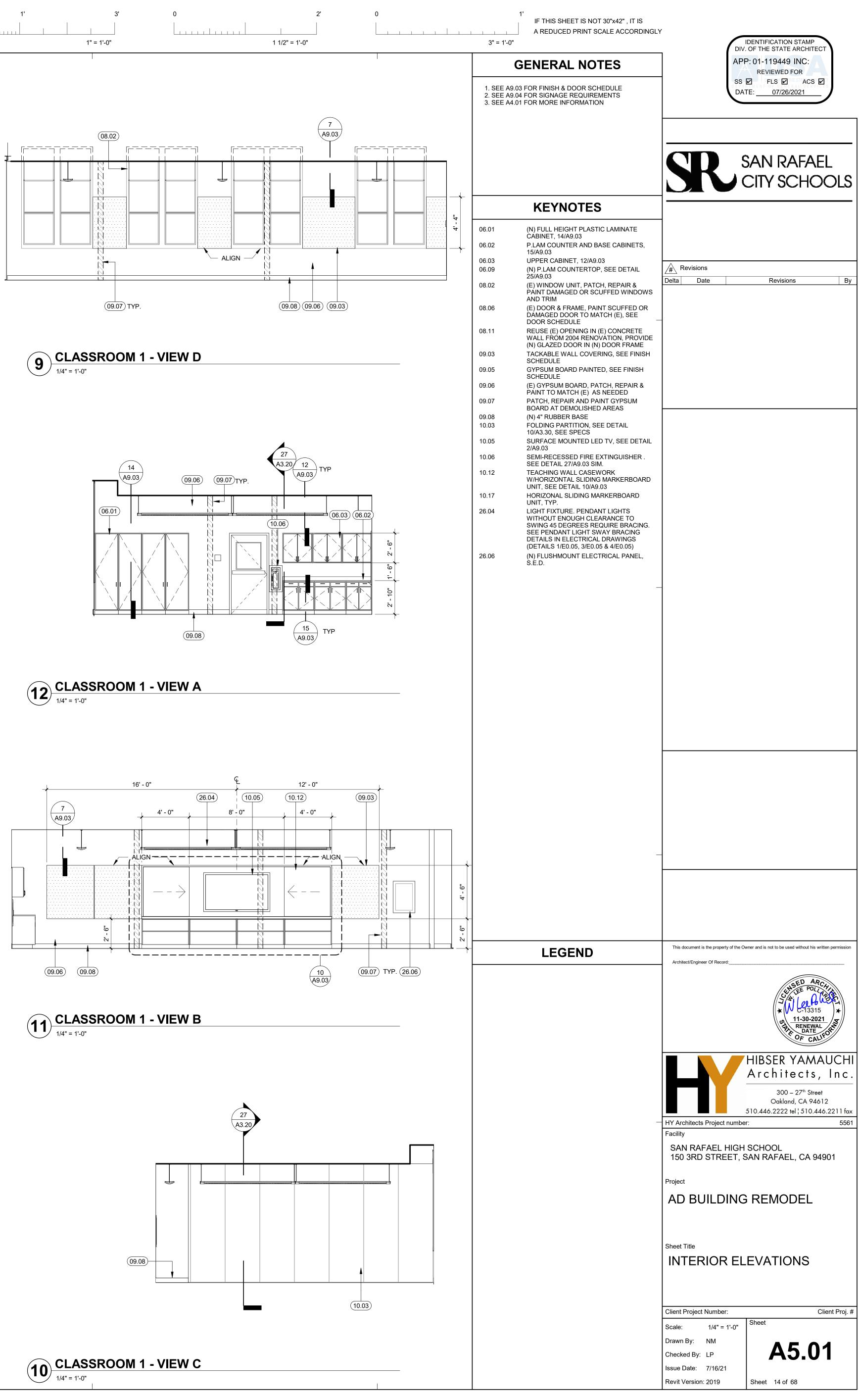


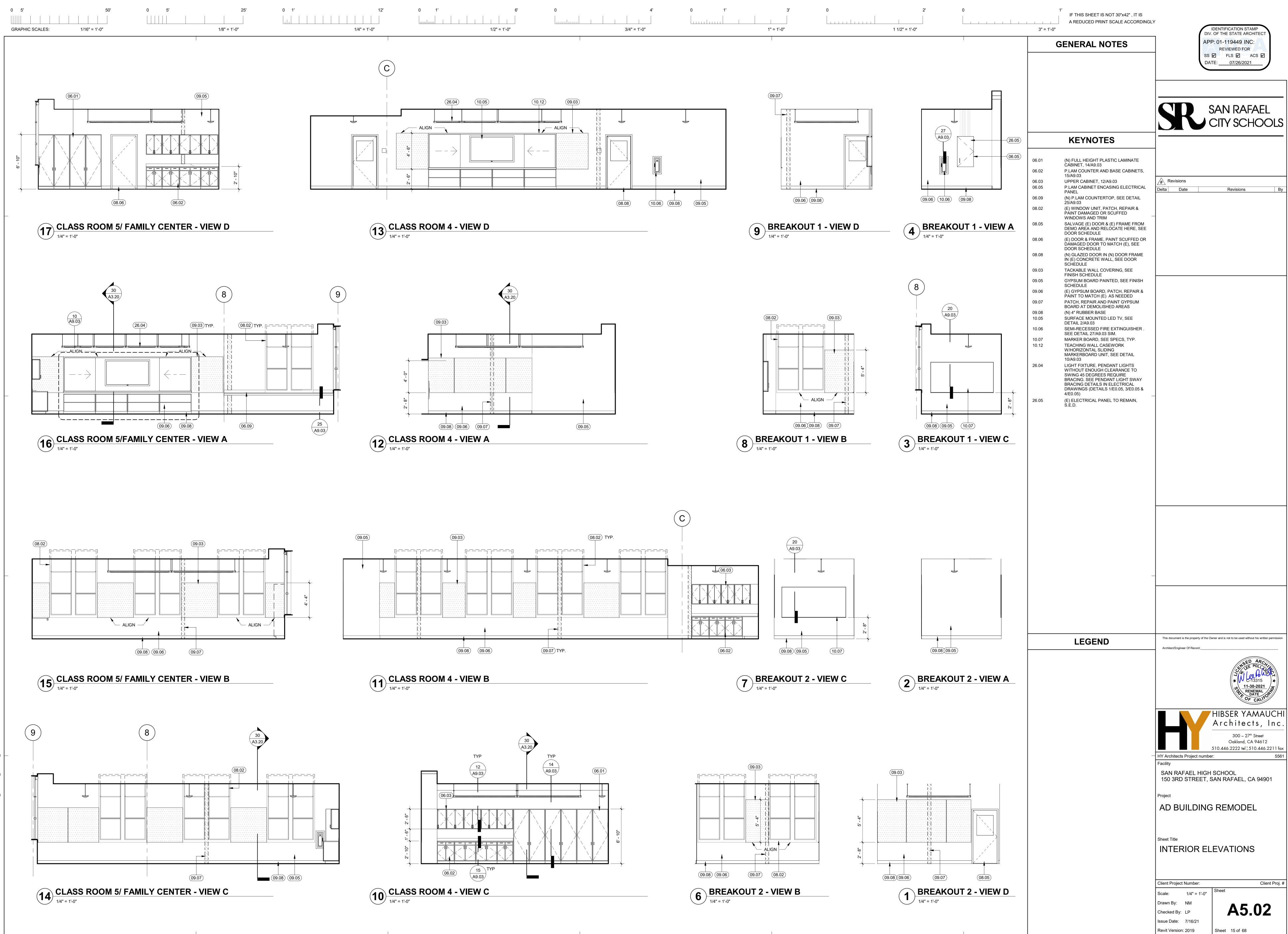


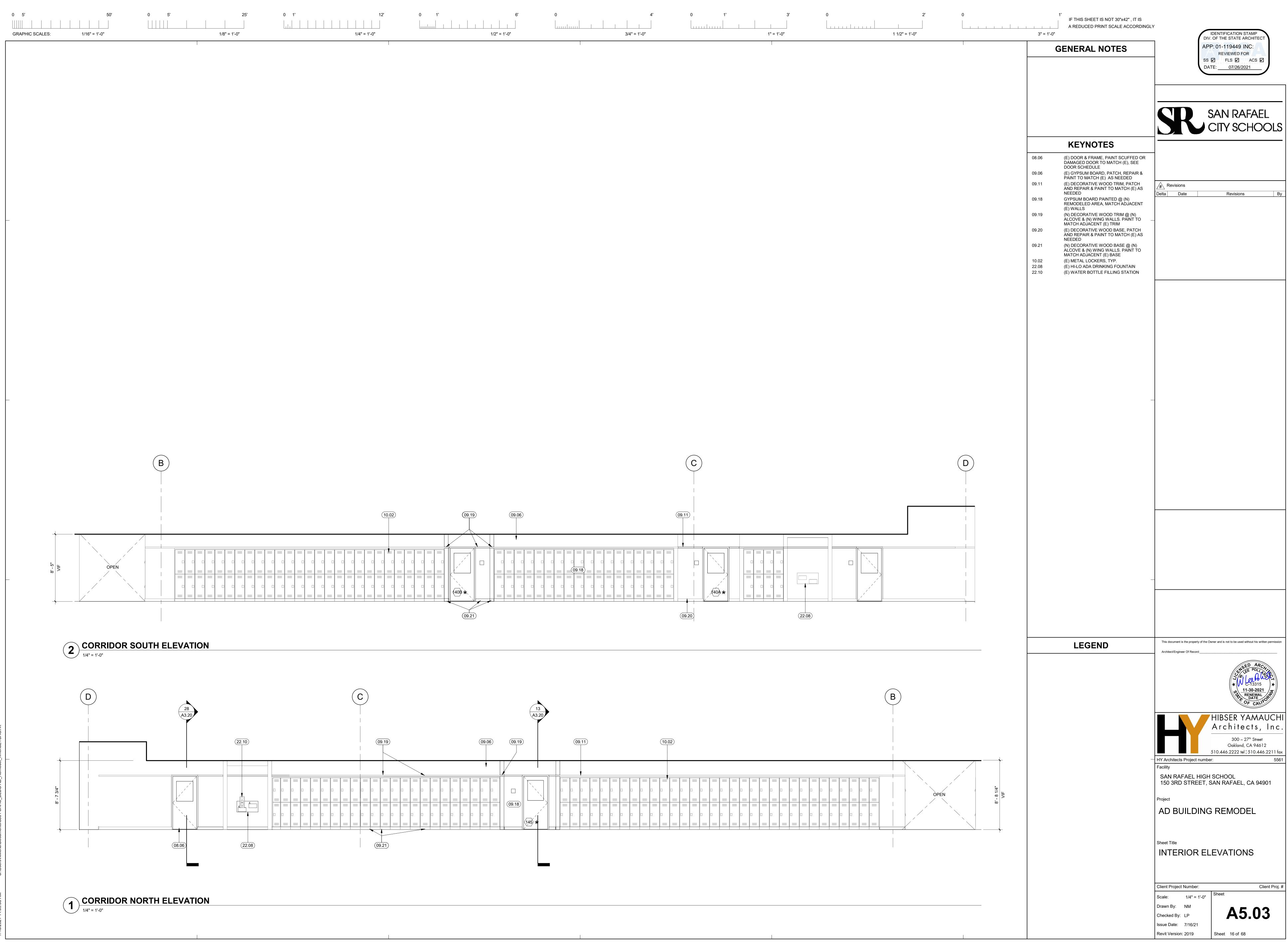


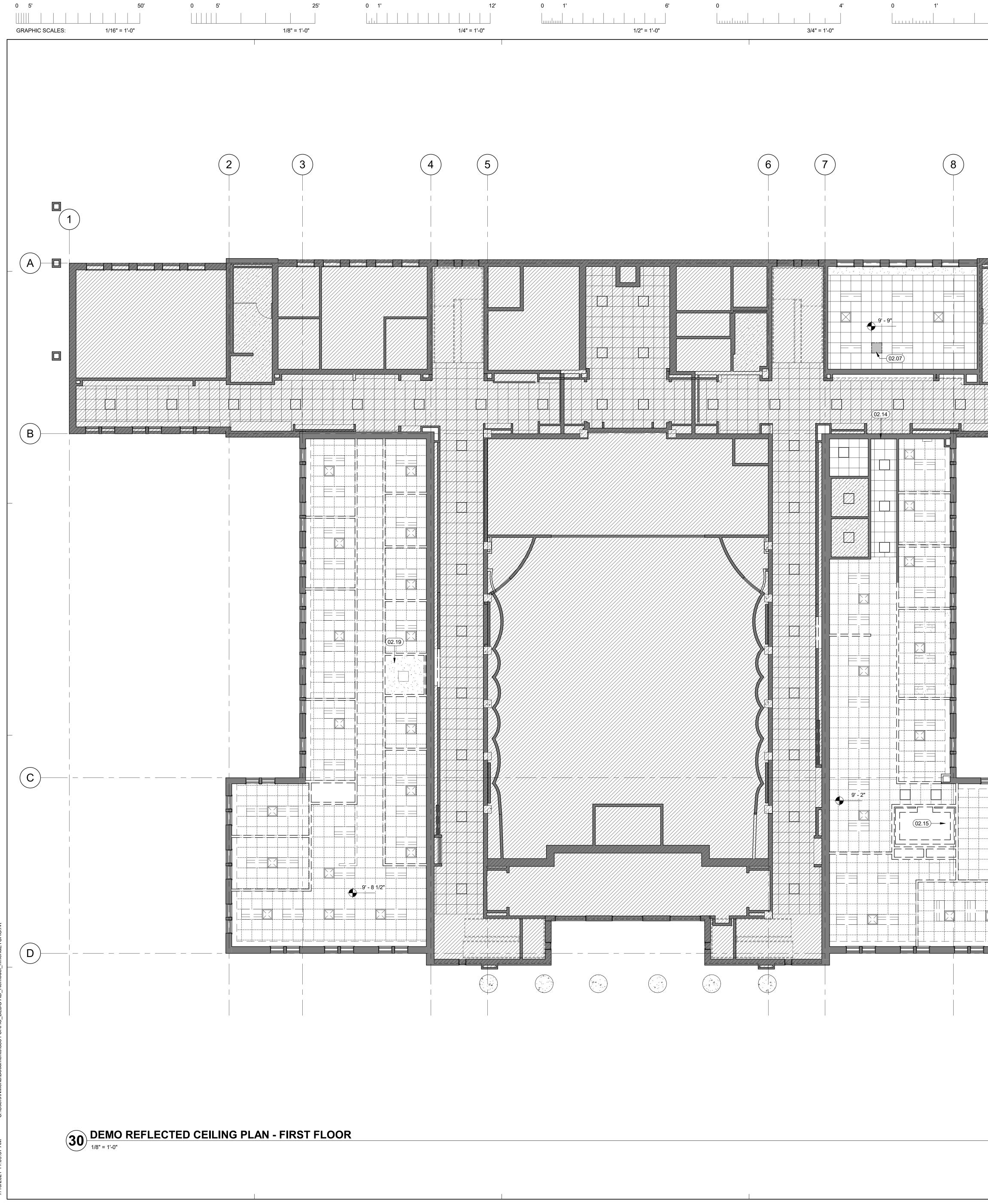




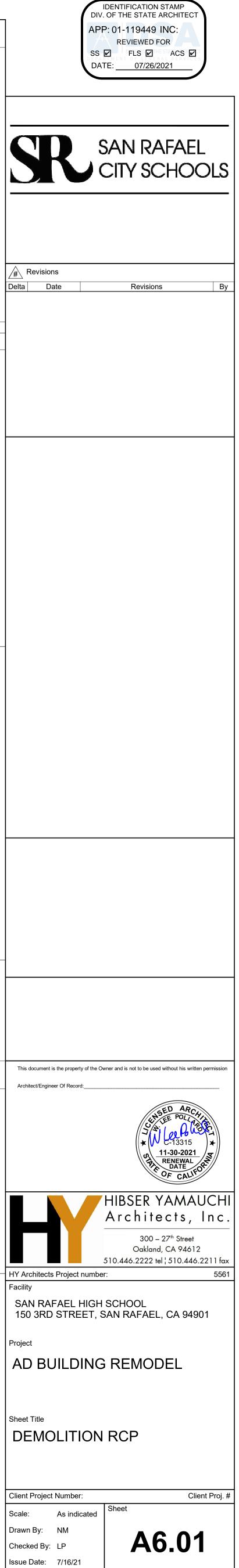




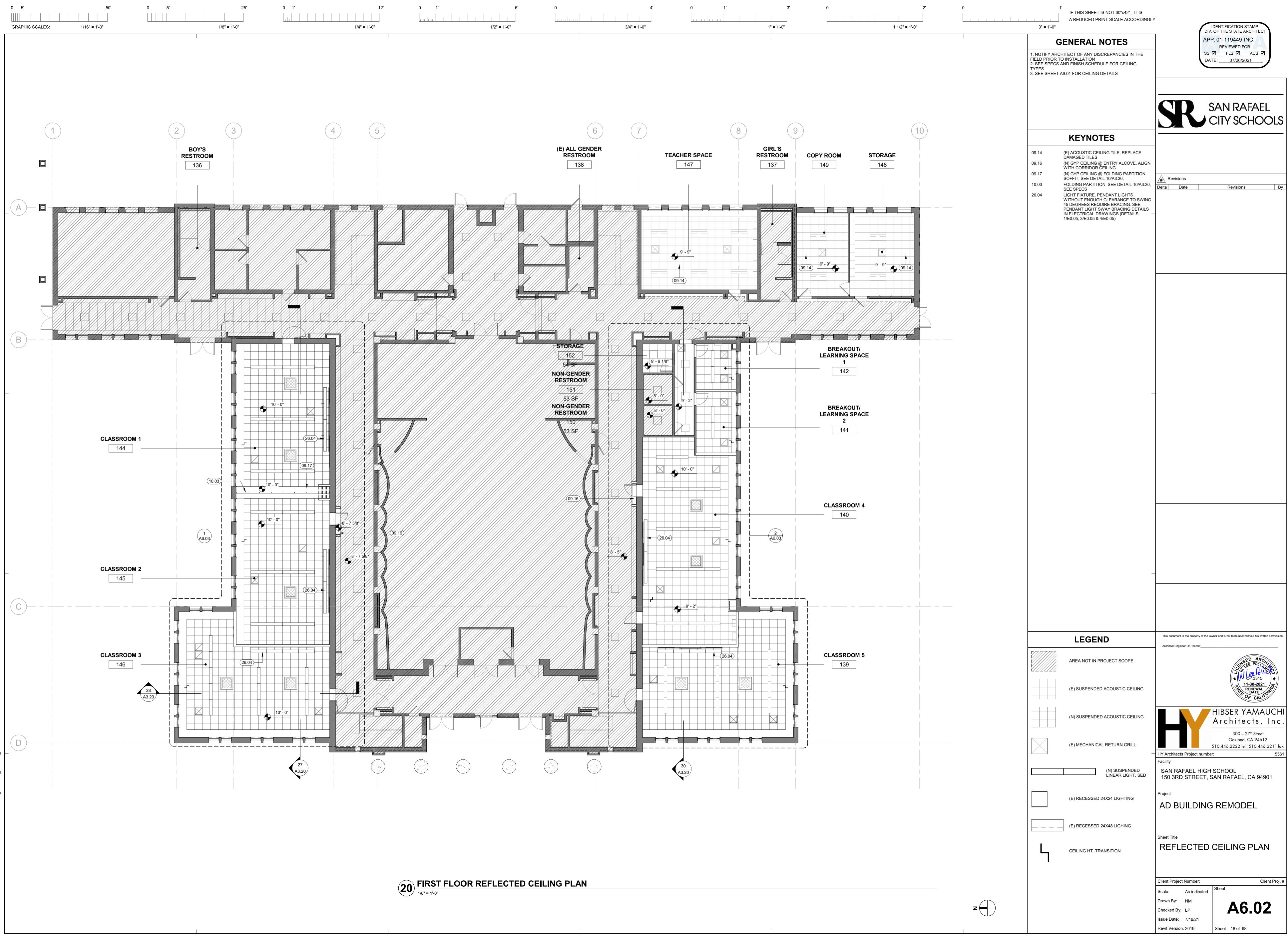




3' 0 	2' 	0	1' IF THIS SHEET IS NOT 30" A REDUCED PRINT SCALE 3" = 1'-0"	
9			<ul> <li>CENERAL NOTED, REMOVE ALL EXISTING IT THE CEILINGS, INCLUDING BUT NOT LIMITED SUSPENDED ACOUSTICAL CEILING SYSTEM HARD LID CEILING AND SOFFITS, TELECOM ELECTRICAL, LIGHTING AND RACEWAYS AN WIRING, CONDUIT, SPRINKLERS, FIRE ALAR AND CONDUITS, SMOKE DETECTORS, SURF MOUNTED LIGHT FIXTURES, SECURITY EQU AND CONDUITS, UON.</li> <li>REMOVE ALL LOOSE AND SPALLING PLAS THROUGHOUT AND AS REQUIRED FOR A SO SUBSTRATE IN AREAS EXPOSED TO VIEW A RENOVATION AND SCHEDULED FOR REPAIL LOOSE AND FLAKING PAINT AS REQURIED FO ROPER ADHESION OF (N) PRIMER THROUG STRIP PAINT TO EXTENT REQUIRED FOR PA AND EVEN FINISH.</li> <li>VERIFY EXTENT OF ALL (E) CEILING FINIS DEMOLISHED IN FIELD, PRIOR TO BID.</li> </ul>	TEMS ON D TO: MS AND DEVICES, ND EXPOSED RM DEVICES FACE JIPMENT STER OUND AFTER R. STRIP FOR GHOUT. ROPER SMOOTH
			KEYNOTES         02.07       REPLACE (E) ACOUSTIC CEILING, REMONDADAGED TILES. TO BE REPNIND         02.09       (E) ACOUSTIC CEILING, REMONDADAGED TILES. TO BE REPNIND         02.14       (E) AREA TO REMAIN, NOT INCONCELLING, CAREFULLY REMONDADACENT EDEBRIS WITHOUADJACENT STRUCTURE.         02.19       DEMOLISH (E) GYP. CEILING	OVE ANY LACED IN I SCOPE RETE VE T DAMAGING
			LEGEND         Image: Constraint of the second sec	
			Image: Constraint of the second s	ACOUSTIC EMOLISHED RETURN 4X24 Facility SAN RAFAEL HI 150 3RD STREE Project AD BUILDIN Sheet Title DEMOLITIC

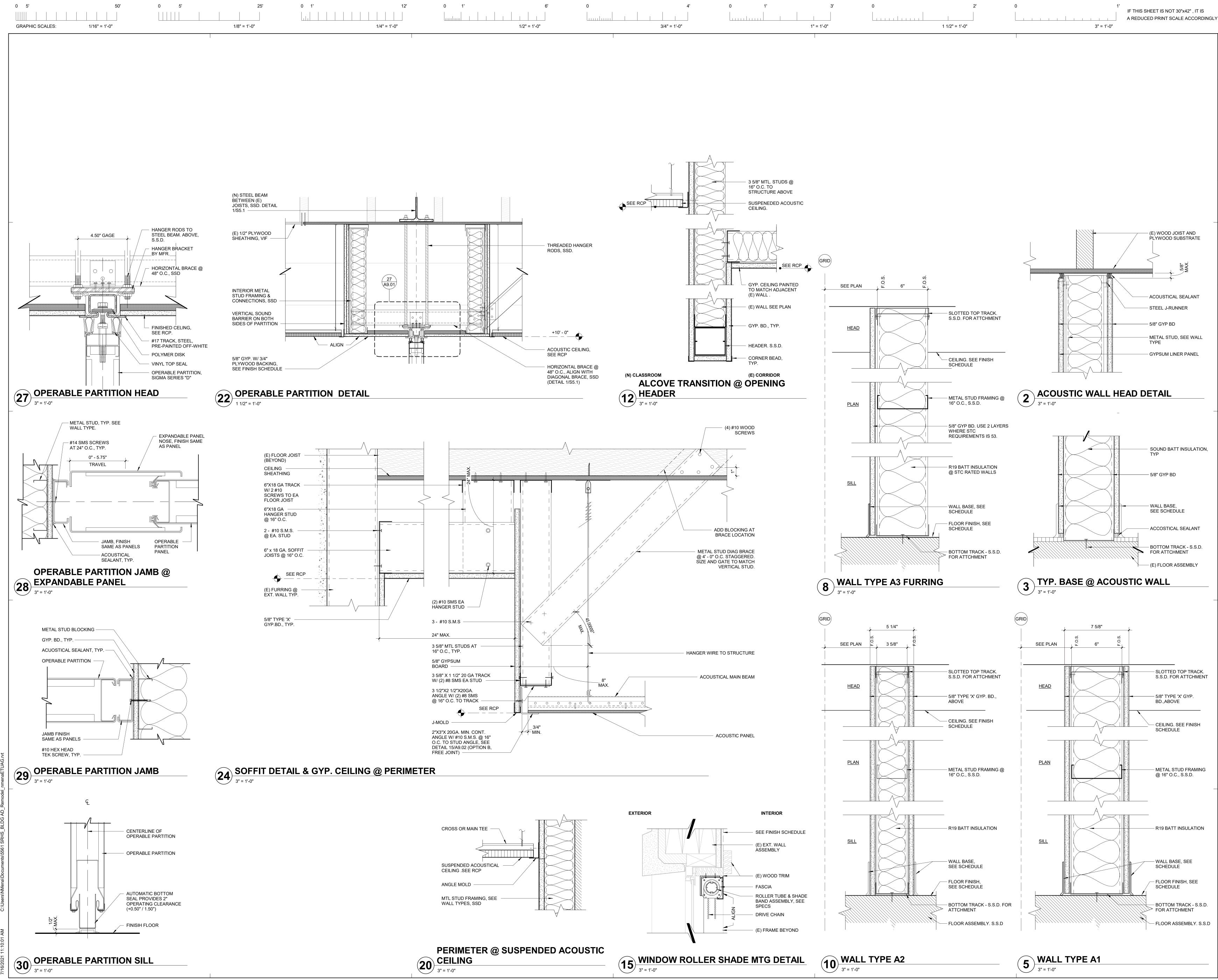


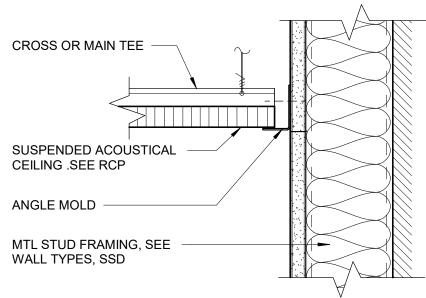
Sheet 17 of 68

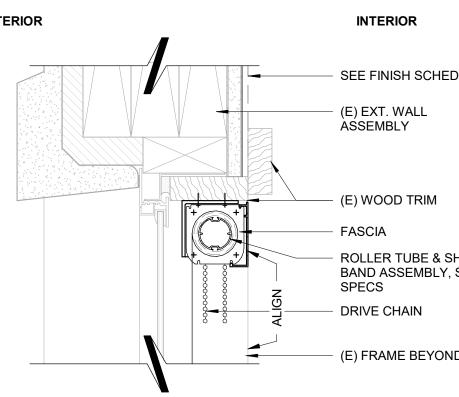


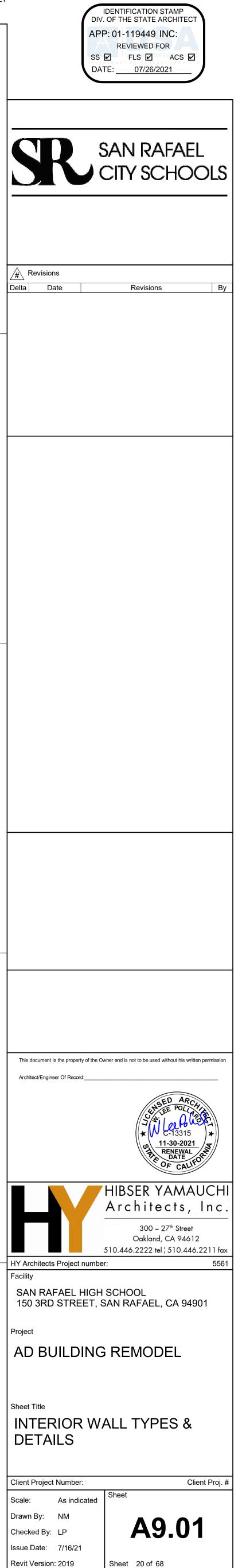


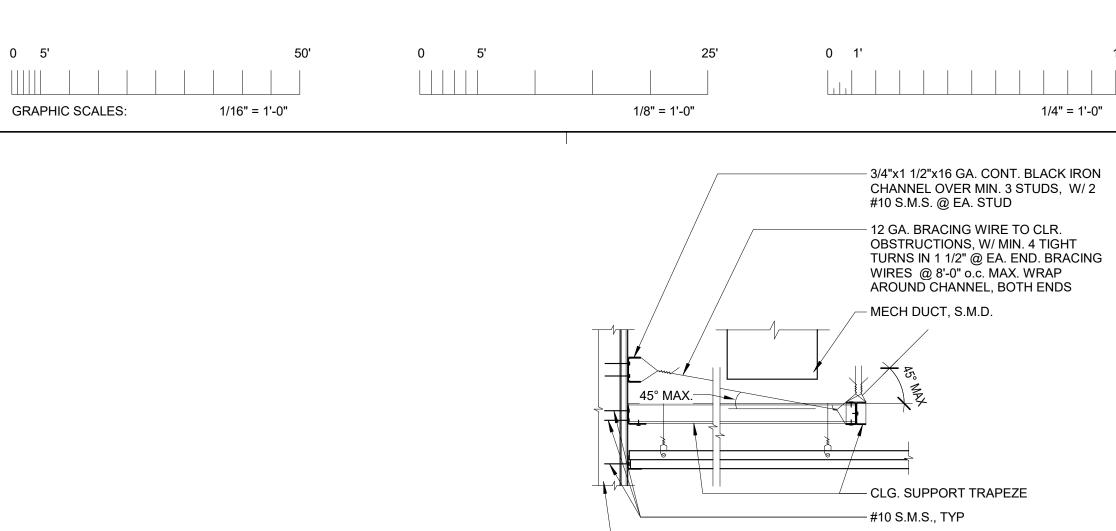
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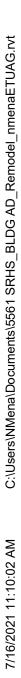


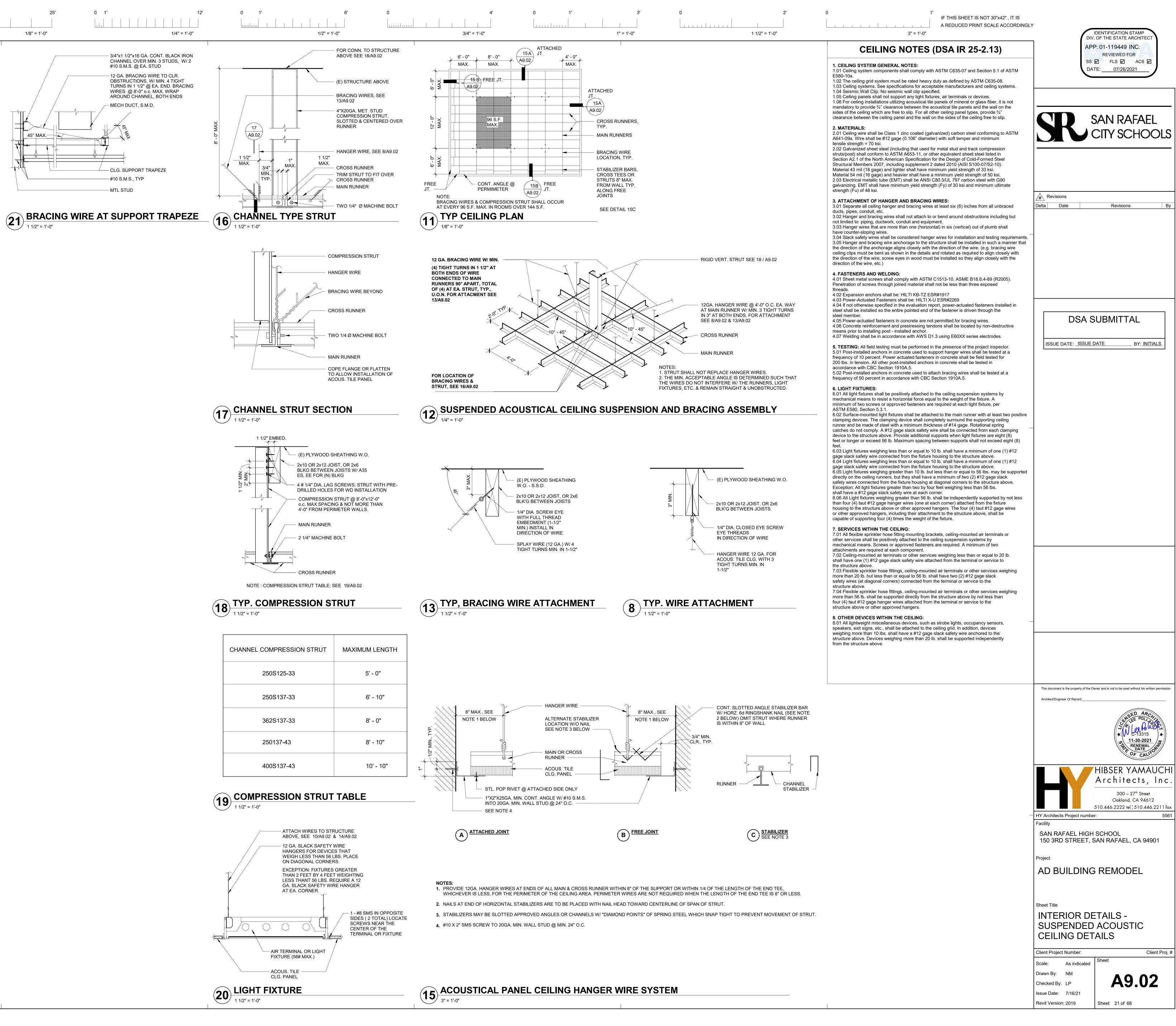


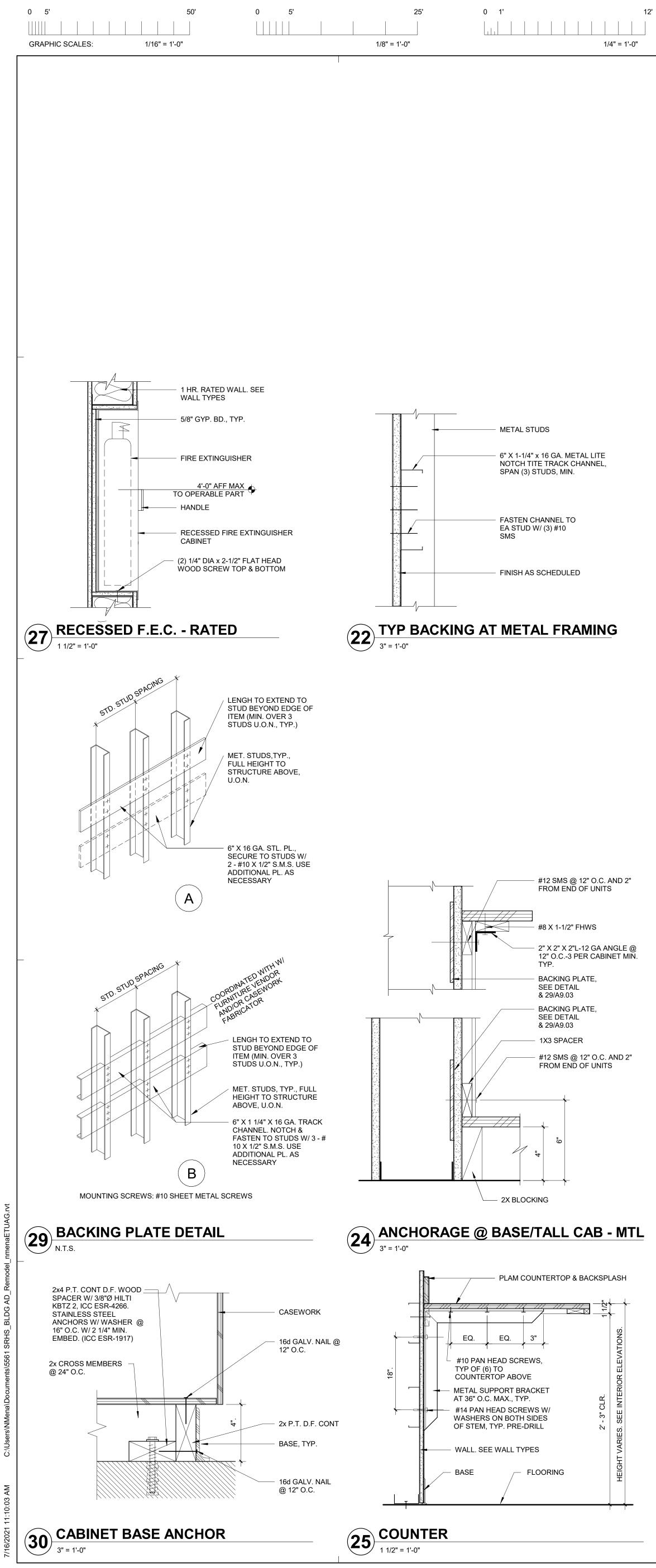




– MTL STUD

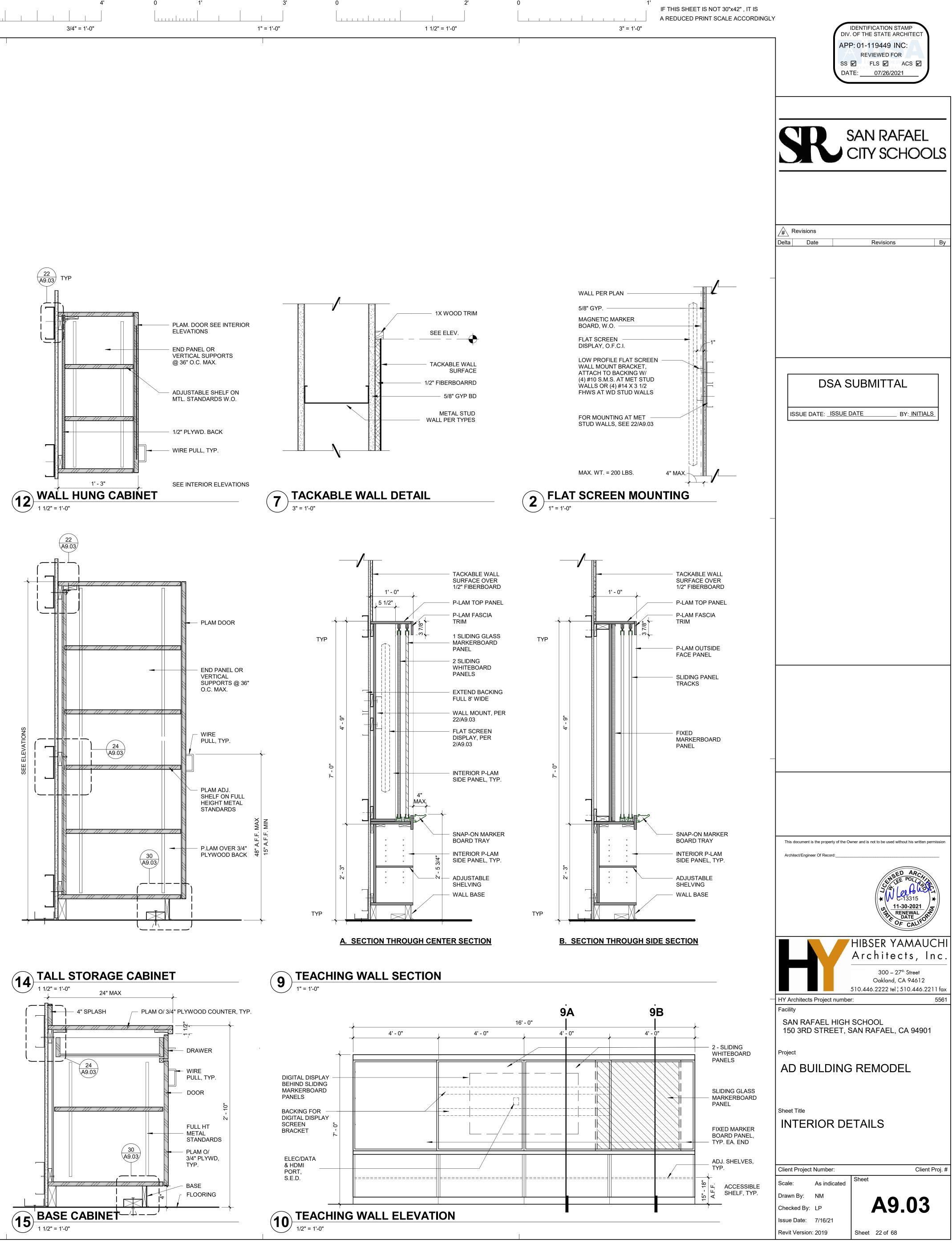


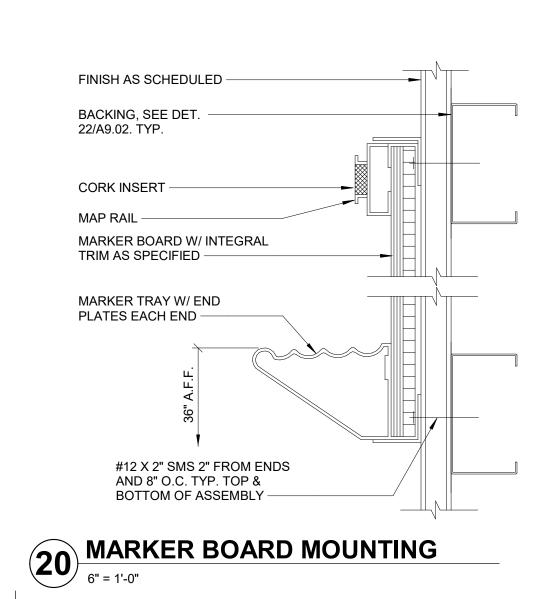


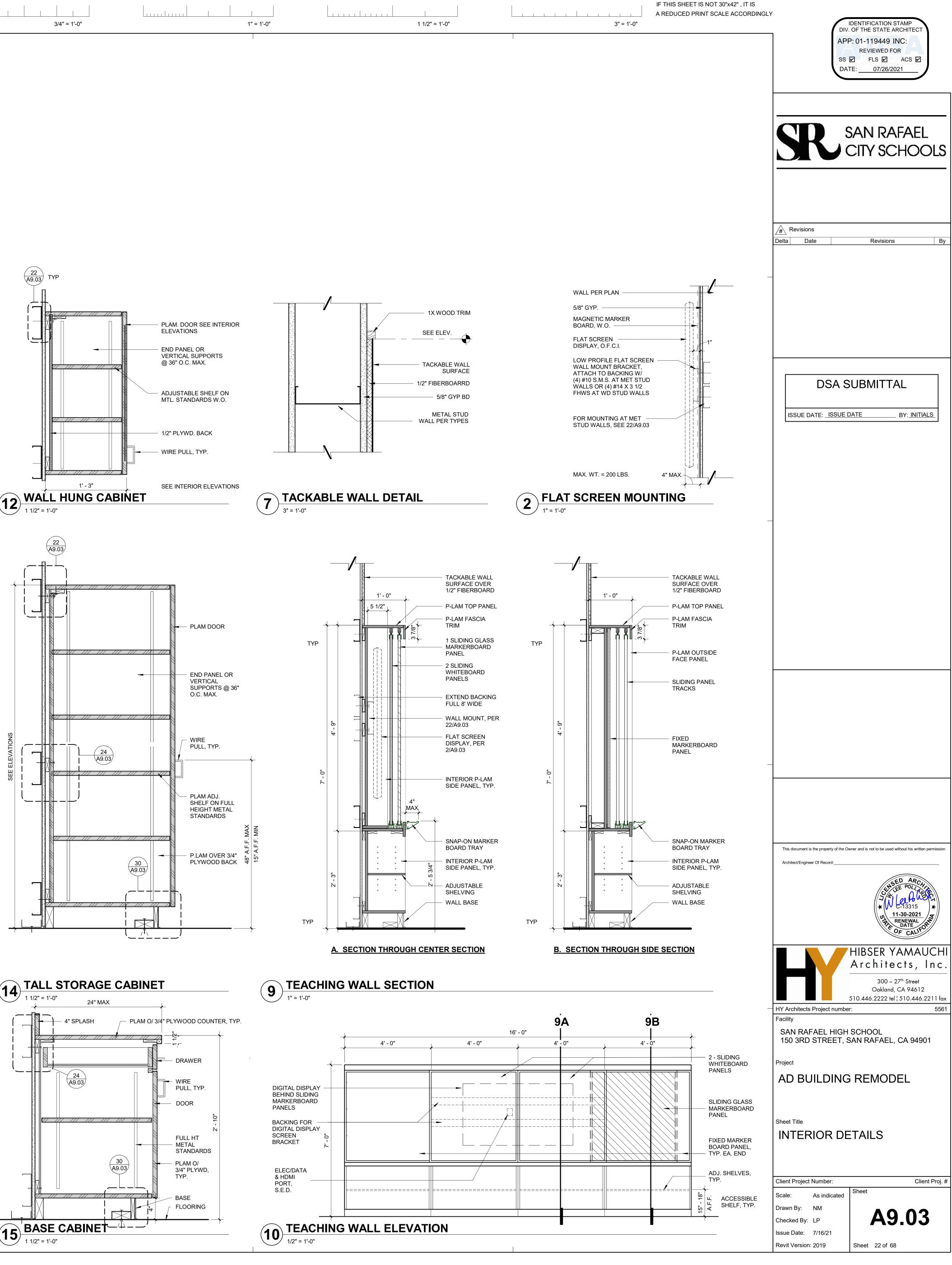


6'

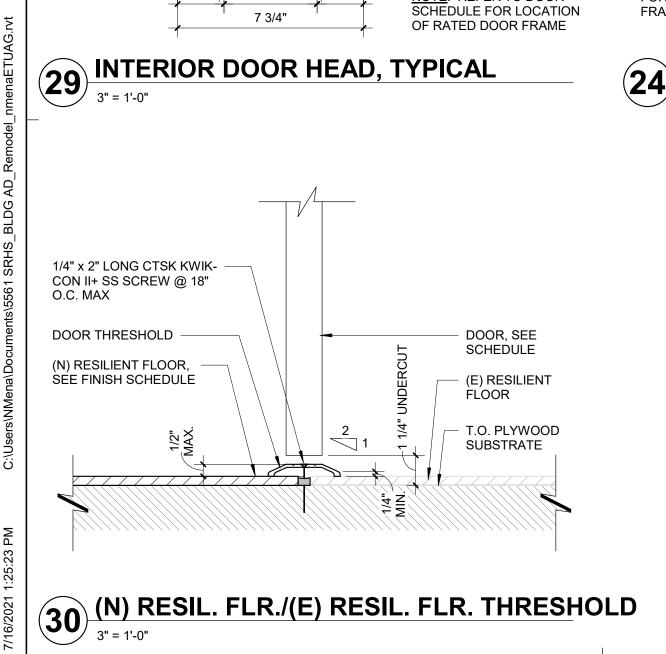
0 1'







ROOM NUMBERROOM NAME139CLASSROOM 5140CLASSROOM 4141BREAKOUT/ LEARNING SI142BREAKOUT/ LEARNING SI144CLASSROOM 1145CLASSROOM 2146CLASSROOM 3147TEACHER SPACE	PACE 1 F1 B1 F1 B1 F1 B1 F1 B1 F1 B1 F1 B1 F1 B1	NORTH         EAST           W1         W1           W1         W1	VALL FINISH           SOUTH         W           W1         W	CEILING           VEST         FINISH           W1         C2           W1         C2	COMM			1 FLOOR RESILIENT FLOORING BASE
148STORAGE149COPY ROOM152STORAGE153HALL	F1         B1           F1         B1           F1         B1           F1         B1	W1         W1           W1         W1           W1         W1           W1         W1	W1 W1	W1         C2           W1         C2           W1         C2           W1         C2	EXISTING CONDITION, RI	EPAIR SCOPE ONL		2 GYPSUM BOARD, PAINT 2 3 CERAMIC TILE 4 MARKER BOARD (OPERABLE PARTITION) CEILING
		2005	DOOR	SCHEDULE				
OPE       Room Name     DOOR #       WIDTH	NING DOOR SIZE HEIGHT THICKNESS Fire Rat 6' - 8" 1 3/4" 90 MIN	ting TYPE MATERIAL D MTL	FINISH MAT		DETAILS HEAD JAMB NA NA		HDWR GROUP 02 (N) DO	COMMENTS DOR @ (E) FRAME
CLASSROOM 4         140A         3' - 0"           CLASSROOM 4         140B         3' - 0"           BREAKOUT 2         141         3' - 0"	6' - 8"         1 3/4"         90 MIN           6' - 8"         1 3/4"         90 MIN           6' - 8"         1 3/4"         NA	D MTL D MTL D MTL	PAINTED MTL PAINTED MTL PAINTED MTL	PAINTED PAINTED PAINTED	29/A9.0324/A9.0329/A9.0324/A9.0329/A9.0324/A9.03	30/A9.03 30/A9.03 SIM 30/A9.03 SIM	03 (N) DO 03 (N) DO 02 (N) DO	00R @ (N) FRAME 00R @ (N) FRAME 00R @ (N) FRAME
BREAKOUT 1         142         3' - 0"           CLASSROOM 1         144         3' - 0"           CLASSROOM 2         145         3' - 0"	6' - 8"         1 3/4"         NA           6' - 8"         1 3/4"         90 MIN           6' - 8"         1 3/4"         90 MIN	D MTL D MTL D MTL	PAINTED MTL PAINTED MTL PAINTED MTL	PAINTED PAINTED PAINTED	NA         NA           NA         NA           29/A9.03         24/A9.03	30/A9.03 SIM 30/A9.03 SIM 30/A9.03 SIM	02 (N) DO 03 (N) DO 03 (N) DO	OOR @ (E) FRAME OOR @ (E) FRAME OOR @ (N) FRAME
CLASSROOM 3         146         3' - 0"           STORAGE         152         3' - 0"           HALL         153         3' - 0"	6' - 8"         1 3/4"         90 MIN           6' - 8"         1 3/4"         NA           6' - 8"         1 3/4"         90 MIN	D MTL A MTL D MTL	PAINTED MTL PAINTED MTL PAINTED MTL	_ PAINTED	NA         NA           29/A9.03         24/A9.03           NA         NA	30/A9.03 SIM 30/A9.03 SIM 30/A9.03	04 SALVA	OOR @ (E) FRAME AGE (E) DOOR & (E) FRAME FROM DEMO AREA OOR @ (E) FRAME
(E) SINGLE FLUSH	<b>NOT USED</b> (E) SINGLE FLUSH	<b>NOT USED</b> (E) SINGLE FLUSH	24 A9.04 (N) SING	.04	T) TEMPERED GLASS			
TYPE A	NARROW LITE PANEL - HM TYPE B	SINGLE LITE PANEL - HM TYPE C	(N) SINGLE SINGLE PANEL - TYPE D	LITE · HM	TEWFERED GLASS			
H W.O.		FINISHE	D RATED	<u>2" 5/8"</u>	FRAME ANCHOR, 32" O.C., MAX. MINIMUM 3 PER JAMB	5/8" GYP.	_	
GYP. RD WALL GH, TYP. 1/2"	1/2" FRAME ANCHO O.C., MAX. MINI PER HEAD	STUD J. S.S.D. R, 32" MUM 2			HOLLOW METAL DOOR FRAME	BOARD W FINISH, T SHIM AS REQUIRE STUD & T TO MATC	ALL (P. D RACK — H	
D & CK TO CH SIZE UGE OF L STUDS.	DOOR FRAME				_AN	SIZE & GA OF WALL STUDS. S		



1/4" x 2" LONG CTSK KWIK- — CON II+ SS SCREW @ 18" O.C. MAX

DOOR THRESHOLD ------

(N) RESILIENT FLOOR, -SEE FINISH SCHEDULE

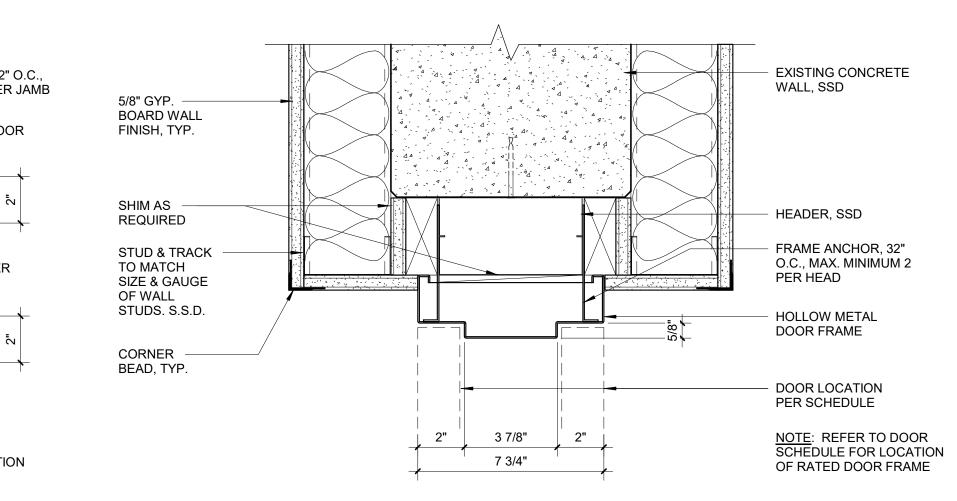
DOOR, SEE
 SCHEDULE

— (E) RESILIENT FLOOR

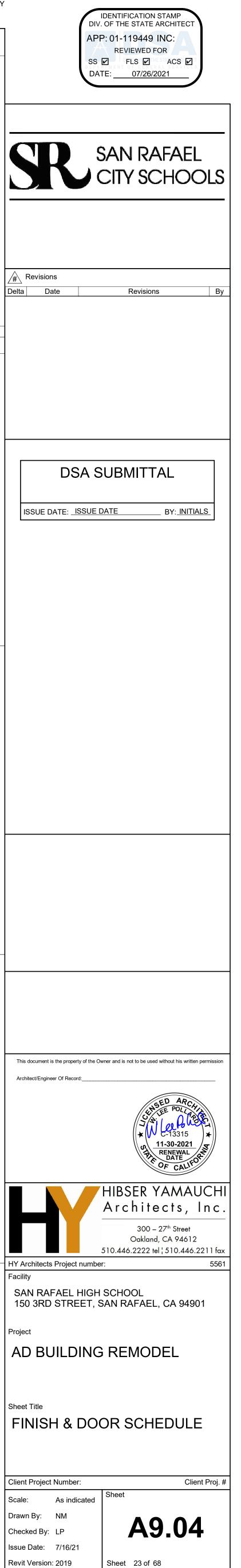
- T.O. PLYWOOD SUBSTRATE

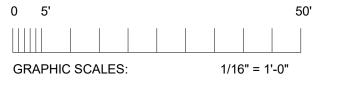
MIN"





	4'	0 1' 3'	0		2' 0	1' IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY	
	3/4" = 1'-0"	1" = 1'-0"		1 1/2" = 1	-0"	3" = 1'-0"	ו
	<u>3</u> /4" = 1'-0"					GENERAL NOTESFOR DOOR NUMBER, OPERATION AND HANDLING, REFER TO FLOOR PLANSPROVIDE TEMPERED OR SAFETY GLAZING AT GLAZED DOORS AND SIDELITESPROVIDE DOOR THRESHOLDS THAT DO NOT EXCEEED 1/2" HEIGHT. CHANGES IN HEIGHT OF UP TO 1/4" MAY BE VERTICAL. BEVELED AT A SLOPE OF 2 HORIZONTAL TO 1 VERTICAL. CHANGES IN VERTICAL HEIGHT BETWEEN 1/4" AND 1/2".PROVIDE CLOSER OPENING FORCE NOT TO EXCEED 5 	
	<ul> <li>EXISTING CONCRETE WALL, SSD</li> <li>HEADER, SSD</li> <li>FRAME ANCHOR, 32" O.C., MAX. MINIMUM 2 PER HEAD</li> <li>HOLLOW METAL DOOR FRAME</li> <li>DOOR LOCATION PER SCHEDULE</li> </ul>						This
+ +	NOTE: REFER TO DOOR SCHEDULE FOR LOCATION OF RATED DOOR FRAME						
RETE WALL							HY A
							Facili SA
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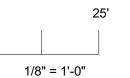




S1

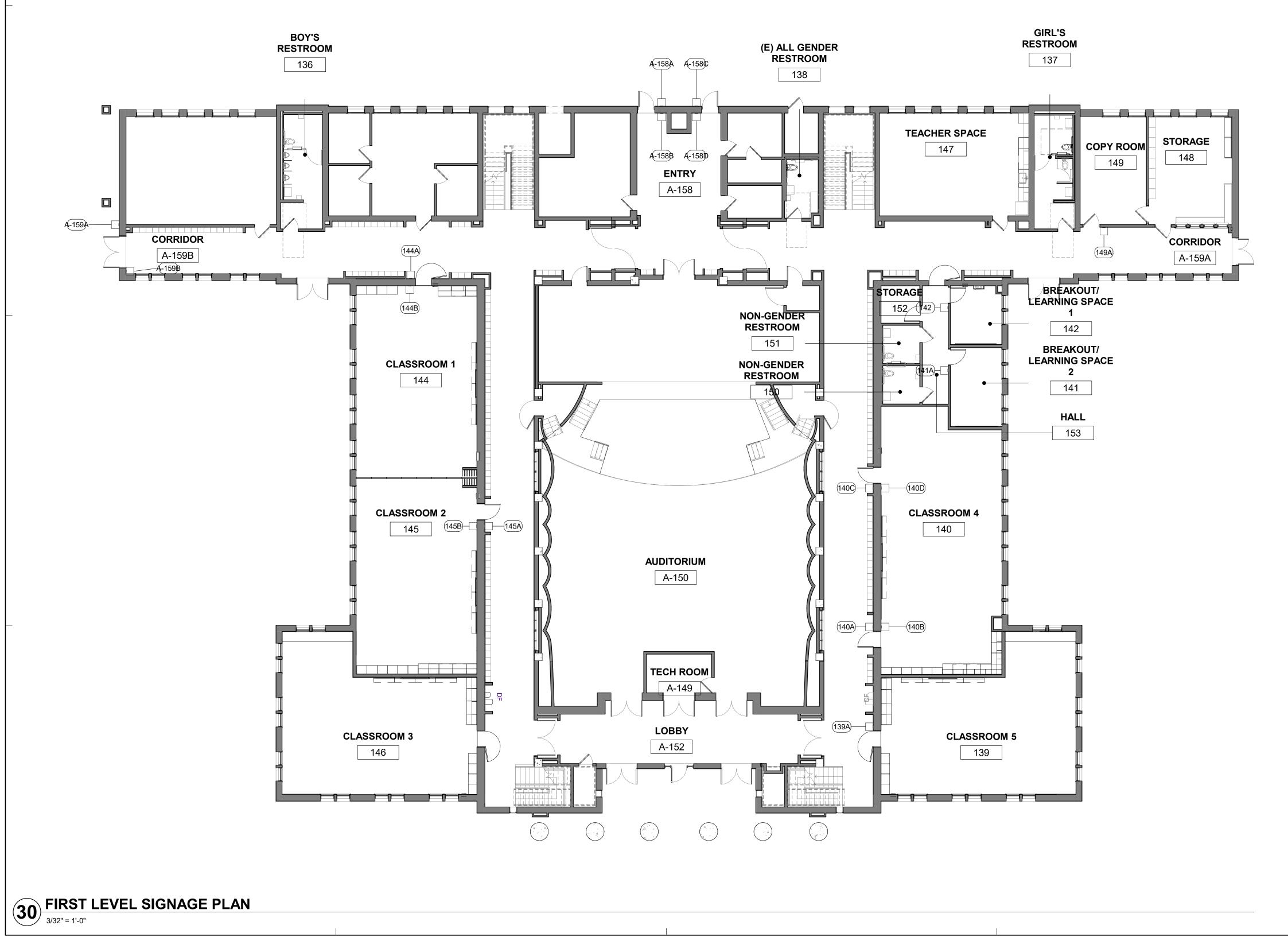
141A





LOCATION	SIGN TYPE	ITEM DESCRIPTION	SIGNAGE COPY	CONS
144B	S17	TACTILE AND BRAILLE REGULATORY "EXIT ROUTE" SIGN		4/A9.04
145B	S17	TACTILE AND BRAILLE REGULATORY "EXIT ROUTE" SIGN		4/A9.04
140B	S17	TACTILE AND BRAILLE REGULATORY "EXIT ROUTE" SIGN		4/A9.04
140D	S17	TACTILE AND BRAILLE REGULATORY "EXIT ROUTE" SIGN		4/A9.04
142	S1	TACTILE WITH BRAILLE IDENTIFICATION SIGN		3/A9.04
149A	S1	TACTILE WITH BRAILLE IDENTIFICATION SIGN		3/A9.04
A-158A	S2	TACTILE ROOM NAME AND NUMBER WITH BRAILLE IDENTIFICATION SIGN & ISA SYMBOL		3/A9.04
A-158B	S7	TACTILE AND BRAILLE REGULATORY "EXIT" SIGN		4/A9.04
A-158D	S7	TACTILE AND BRAILLE REGULATORY "EXIT" SIGN		4/A9.04
A-158C	S2	TACTILE ROOM NAME AND NUMBER WITH BRAILLE IDENTIFICATION SIGN & ISA SYMBOL		3/A9.04
A-159B	S7	TACTILE AND BRAILLE REGULATORY "EXIT" SIGN		4/A9.04
A-159A	S2	TACTILE ROOM NAME AND NUMBER WITH BRAILLE IDENTIFICATION SIGN & ISA SYMBOL		3/A9.04
145A	S1	TACTILE WITH BRAILLE IDENTIFICATION SIGN		3/A9.04
144A	S1	TACTILE WITH BRAILLE IDENTIFICATION SIGN		3/A9.04
139A	S1	TACTILE WITH BRAILLE IDENTIFICATION SIGN		3/A9.04
140A	S1	TACTILE WITH BRAILLE IDENTIFICATION SIGN		3/A9.04
140C	S1	TACTILE WITH BRAILLE IDENTIFICATION SIGN		3/A9.04

TACTILE WITH BRAILLE IDENTIFICATION SIGN

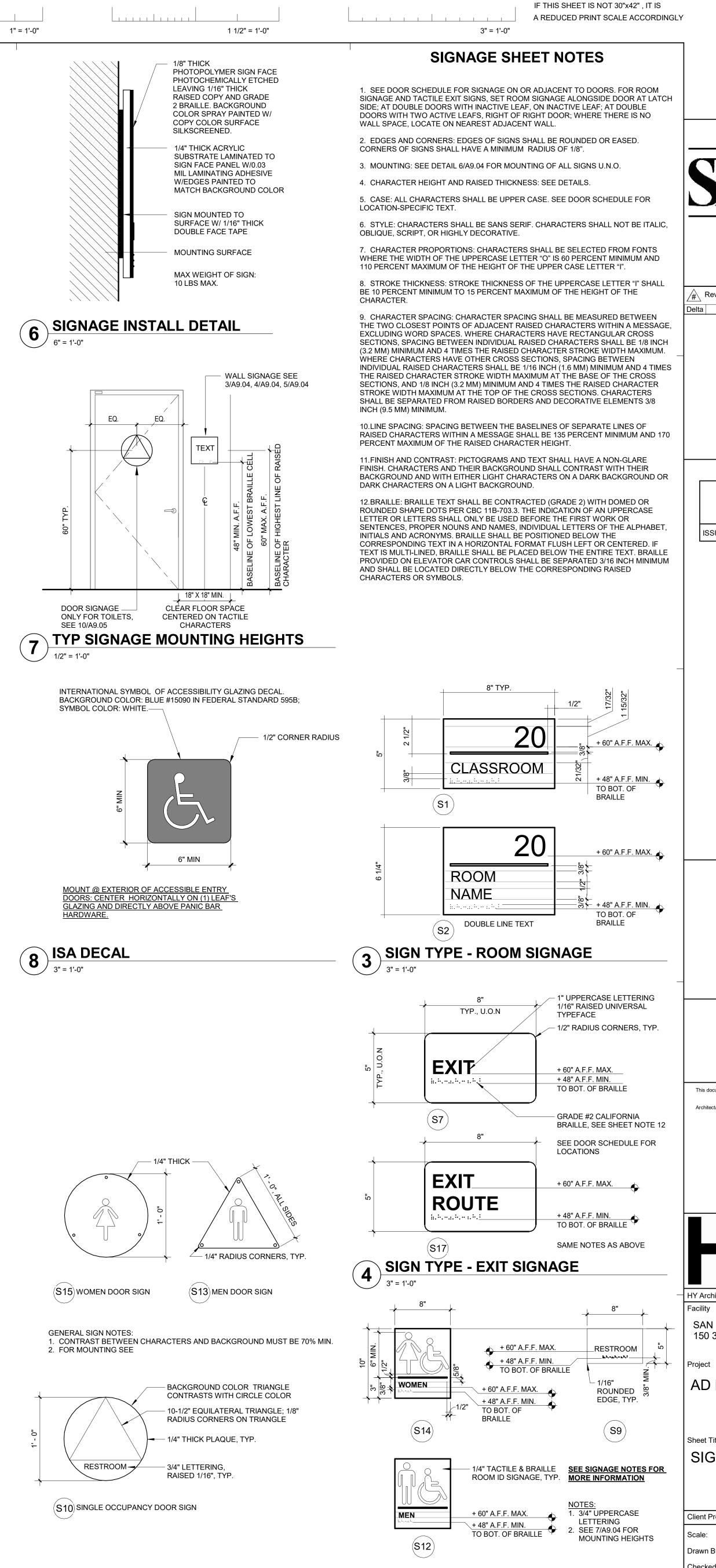


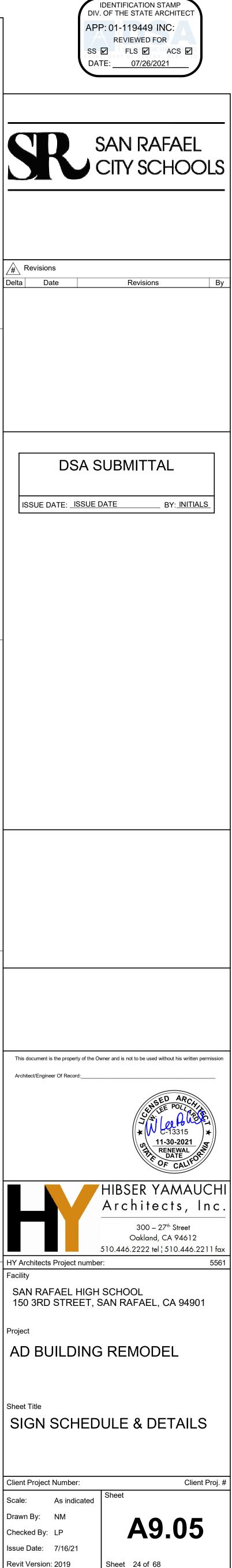
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3/A9.04

# 

- SIGNAGE LEGEND
- **S1** TACTILE ROOM NAME AND NUMBER WITH BRAILLE IDENTIFICATION SIGN, SEE DETAIL 3/A9.05
- S2 TACTILE ROOM NAME AND NUMBER WITH BRAILLE IDENTIFICATION SIGN & ISA SYMBOL SEE DETAILS 3/A9.05 AND 8/A9.05
- **S7** TACTILE AND BRAILLE REGULATORY "EXIT" SIGN
- **S8** ACCESSIBLE RESTROOM DIRECTIONAL SIGNAGE
- **S9** UNISEX TACTILE AND BRAILLE RESTROOM WALL SIGNAGE
- S10 UNISEX TACTILE AND BRAILLE RESTROOM DOOR SIGNAGES12 MEN'S TACTILE AND BRAILLE RESTROOM WALL SIGNAGE
- **S13** MEN'S TACTILE AND BRAILLE RESTROOM DOOR SIGNAGE
- **S14** WOMEN'S TACTILE AND BRAILLE RESTROOM WALL SIGNAGE
- **S15** WOMEN'S TACTILE AND BRAILLE RESTROOM DOOR SIGNAGE
- **S17** TACTILE AND BRAILLE REGULATORY "EXIT ROUTE" SIGN





25'

1/8" = 1'-0"

# MATERIAL DATA

(INFORMATION SHOWN IS FOR STRUCTURAL DESIGN REFERENCE ONLY. SEE THE PROJECT SPECIFICATIONS FOR ALL MATERIAL SPECIFICATIONS.)

WO	OD BASE DESIGN STRESS	ES (UNO):			
	SAWN LUMBER MEMBER	SPECIES AND MINIMUM GRADE, UNO	F <sub>b</sub> (PSI)	F <sub>v</sub> (PSI)	E (PSI)
	6x POSTS	DOUGLAS FIR - #1	1200	170	1.6x10 <sup>6</sup>
	6x BEAMS	DOUGLAS FIR - #1	1350	170	1.6x10 <sup>6</sup>
	4x POSTS & BEAMS	DOUGLAS FIR - #1	1000	180	1.7x10 <sup>6</sup>
	2x JOISTS, RAFTERS	DOUGLAS FIR - #1	1000	180	1.7x10 <sup>6</sup>
	P MATERIAL	DOUGLAS FIR - #1	1000	180	1.7x10 <sup>6</sup>
	2x STUDS	DOUGLAS FIR - #1	1000	180	1.7x10 <sup>6</sup>
	NUFACTURED WOOD PROI LVL (JOISTS) LSL (BLOCKING, LEDGERS PSL (BEAMS, JOISTS) PSL (POSTS)	F <sub>b</sub> = 2,600 PSI	E = 1.3x1 E = 2.2x1	0 <sup>6</sup> PSI 0 <sup>6</sup> PSI	
FOR METAL CONNECTOR DESIGNATION REFER TO SIMPSON STRONG-TIE PER SPECIFICATIONS.					
STRUCTURAL STEEL W & WT SHAPES ASTM A992 OR A572 GRADE 50 PLATES				R	

## WOOD FRAMING NOTES

## 1. ALL BEAMS AND JOISTS (EXCLUDING I JOISTS) SHALL BE SEAT CUT FOR FULL UNIFORM BEARING AT SUPPORTS, INCLUDING BEAM SEATS AND COLUMN CAPS.

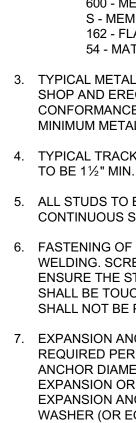
2. ALL NAILING NOT NOTED OR DETAILED OTHERWISE SHALL BE PER BELOW SCHEDULE. NAIL LENGTH TO BE SUFFICIENT TO MEET CBC PENETRATION REQUIREMENTS. NAILS INTO PRESSURE TREATED MATERIAL SHALL BE HOT DIP

RIM JOIST TO TOP ₱, TOE NAIL       10d @         TRUSSES, JOISTS OR RAFTERS AT ALL BEARING POINTS       -(2         TRUSSES, JOISTS OR RAFTERS TO SIDE OF STUDS       -(2         EIGHT (8) INCH JOISTS OR LESS       -(3         FOR EACH ADDITIONAL 4 INCHES OF DEPTH OF JOIST       -(1         BLOCKING BETWEEN JOISTS OR RAFTERS:       -(2         TO JOIST OR RAFTERS - TOE NAILS EA SIDE, EA END       -(2         BLOCKING BETWEEN STUDS, EACH END TOE NAILS EA SIDE       -(2         BLOCKING BETWEEN STUDS, EACH END TOE NAILS       -(2) 10d OR (2         BRIDGING TO JOIST, TOE NAIL EACH END       -(2)         2" SUBFLOOR TO JOIST OR GIRDER, BLIND & FACE NAIL       -(2         SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL       -16d @	D. RES.
TRUSSES, JOISTS OR RAFTERS AT ALL BEARING POINTS       -(2         TOE NAILS EACH SIDE	) 6"oc
EIGHT (8) INCH JOISTS OR LESS - (3) FOR EACH ADDITIONAL 4 INCHES OF DEPTH OF JOIST - (1) BLOCKING BETWEEN JOISTS OR RAFTERS: TO JOIST OR RAFTERS - TOE NAILS EA SIDE, EA END - (2) TO JOIST OR RAFTER BEARINGS - TOE NAILS EA SIDE - (2)	N 40 I
EIGHT (8) INCH JOISTS OR LESS - (3) FOR EACH ADDITIONAL 4 INCHES OF DEPTH OF JOIST - (1) BLOCKING BETWEEN JOISTS OR RAFTERS: TO JOIST OR RAFTERS - TOE NAILS EA SIDE, EA END - (2) TO JOIST OR RAFTER BEARINGS - TOE NAILS EA SIDE - (2)	.) 10d
BLOCKING BETWEEN JOISTS OR RAFTERS: TO JOIST OR RAFTERS - TOE NAILS EA SIDE, EA END	
BLOCKING BETWEEN JOISTS OR RAFTERS: TO JOIST OR RAFTERS - TOE NAILS EA SIDE, EA END	) 16d
TO JOIST OR RAFTERS - TOE NAILS EA SIDE, EA END	) 100
TO JOIST OR RAFTER BEARINGS - TOE NAILS EA SIDE, LA END TO JOIST OR RAFTER BEARINGS - TOE NAILS EA SIDE	n) 10d
BLOCKING BETWEEN STUDS, EACH END TOE NAILS ERTOIDE BRIDGING TO JOIST, TOE NAIL EACH END 2" SUBFLOOR TO JOIST OR GIRDER, BLIND & FACE NAIL SOLE PLATE TO JOIST OR BLOCKING, EACE NAIL	2) 10d
BRIDGING TO JOIST, TOE NAIL EACH END 2" SUBFLOOR TO JOIST OR GIRDER, BLIND & FACE NAIL SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	2) 16d
2" SUBFLOOR TO JOIST OR GIRDER, BLIND & FACE NAIL	(2) 8d
SOLE PLATE TO JOIST OR BLOCKING FACE NAIL	2) 16d
	16"oc
I SOLE PLATE TO JOIST OR BLOCKING AT	
BRACED WALL PANELS	16"oc
TOP PLATE TO STUD, END NAIL · · · · · · · · · · · · · · · · · · ·	.) 16d
STUD TO SOLE PLATE, TOE NAIL	(4) 8d
DOUBLE STUDS AT EXTERIOR WALLS, FACE NAIL	12"0C
DOUBLE STUDS, FACE NAIL	24°0C
DOUBLE STUDS, FACE NAIL - 16d @ 1 DOUBLE TOP PLATES, FACE NAIL - 16d @ 1 TOP PLATES, LAPS & INTERSECTIONS, FACE NAIL - 16d @ 10100 FACE NAIL - 16d @ 1	12 00
CONTINUOUS HEADED TWO DIECES	
	16d
CONTINUOUS HEADER, TWO PIECES	(4) 8d
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	) 16d
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	ý) 16d
BUILT-UP CORNER STUDS	12"oc
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	) 10d

- 3. FOR ROOF DRAINAGE, TOP OF FRAMING BETWEEN NOTED POINTS IS A STRAIGHT LINE.
- 4. ALL MECHANICAL SUPPLY AND RETURN OPENINGS TO BE BETWEEN FRAMING UNO. 5. JOISTS AND RAFTERS ARE PER PLAN. UNLESS NOTED OTHERWISE, PROVIDE "LU" HANGER AT FLUSH FRAMING AND "HU" HANGER WHERE HANGER IS SHOWN SKEWED PER PLAN AND/OR HANGER SEAT IS INDICATED TO BE SLOPED. HANGER SIZE TO BE CORRECT FULL SIZE FOR JOIST SIZE (I.E. LU210 FOR 2x10). FILL ALL NAIL

HOLES. HANGERS FOR PANELIZED ROOF CONSTRUCTION ARE PER PLAN.

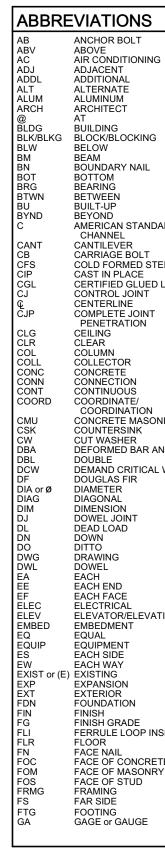
- 6. ROUND HOLES IN STEEL PLATES TO BE 1/16" OVERSIZE. SLOTTED HOLES IN STEEL PLATES SHALL BE  $\frac{1}{16}$ " WIDER THAN THE BOLT DIAMETER AND HAVE A LENGTH OF 2 TIMES THE BOLT DIAMETER. THE DIRECTION OF THE SLOTTED LENGTH IS INDICATED ON THE DETAILS (VSH OR HSH). INSTALL BOLT AT THE CENTER LINE OF THE HOLE. BOLT HOLES IN WOOD SHALL BE ROUND AND  $\frac{1}{22}$ " OVERSIZE. CUT OFF BOLT THREADED END FLUSH WITH NUT WHEN REQUIRED BY FINISHES AND 1" MAXIMUM FROM NUT OTHERWISE. PROVIDE STANDARD CUT WASHERS UNDER HEAD AND NUT WHERE BOLT BEARS ON WOOD. USE PLATE OR MALLEABLE IRON WASHERS AT EXPOSED CONDITIONS OR AS INDICATED.
- 7. ALL BOLTED OR NAILED STRAP CONNECTIONS SHALL HAVE AN EQUAL NUMBER OF BOLTS OR NAILS EACH SIDE OF THE SPLICE JOINT. THE FIRST BOLT OR NAIL FROM EACH SIDE OF THE SPLICED OR STRAPPED MEMBER SHALL BE EQUIDISTANT FROM THE SPLICE. STRAPS USING 16d NAILS ON 2x MATERIAL TO BE INSTALLED ON THE 1<sup>1</sup>/<sub>2</sub>" EDGE OF THE MEMBER.
- 8. THE CONTRACTOR SHALL VERIFY THAT THE MOISTURE CONTENT OF ALL FRAMING LUMBER AND SHEATHING MEET THE REQUIREMENTS OF THE SPECIFICATIONS AT THE TIME OF INSTALLATION AND AT CLOSE-IN. THE CONTRACTOR SHALL PROVIDE ALLOWANCE FOR DIFFERENTIAL SHRINKAGE BETWEEN FLOORS, ETC.
- 9. VENTING IS REQUIRED IN ENCLOSED FRAMING AREAS, SAD. DRILL BLOCKING AND LEDGERS AND PROVIDE SKIP BLOCKING AS DETAILED.
- 10. ALL SHEATHING SHALL HAVE 1/8" GAP AT ALL EDGES AND JOINTS. TYPICAL SHEATHING:
- A. FLAT ROOF AND CEILING SHEATHING (SLOPE 2:12 OR LESS): 1%2 "T&G APA RATED SHEATHING (40/20) EXP 1 WITH 10d @ 6"oc EDGES (PEN) AND 12"oc FIELD UNO ON PLANS. LAY PERPENDICULAR TO FRAMING MEMBERS. BLOCK EDGES WITH 2x4 LAID FLAT. NO PANELS LESS THAN 24" WIDE SHALL BE USED. STAGGER SHEETS.



## ALLOW FULLY

## 10. TYPICA 11. PROVIE

12. TYPICAL PUNCHOUTS PER <u>16/S1.1</u> .					
13. FOR POW	ER ACTUATED F	ASTENERS (PA	F) UNO:		
BASE MATERIAL	FASTENER TYPE	SIZE	MINIMUM SPACING	MINIMUM DISTANCE	NOTES
CONCRETE	HILTI X-U (ICC ESR-2269)	0.157 <b>"ø</b> MIN 1¼" LONG	4"	3"	DO NOT USE PAF AT CONCRETE CURB
STRUCTURAL STEEL	HILTI X-U (ICC ESR-2269)	0.157"øx%" LONG	1"	1⁄2"	
				•	



1" = 1'-0" 1 1/2" = 1'-0	0" 3" = 1'-0"
COLD-FORMED STEEL FRAMING NOTES	(A) DESIGN CRITERIA
<ol> <li>SEE PLANS, DETAILS, AND ARCHITECTURAL DRAWINGS FOR METAL FRAMING LOCATIONS. SEE ARCHITECTURAL DRAWINGS FOR WALL WIDTHS AND CONFIGURATIONS.</li> <li>EACH FRAMING MEMBER IS DESIGNATED BY A FOUR PART CODE INDICATING THE SIZE (BOTH DEPTH AND FLANGE WIDTH), STYLE, AND MATERIAL THICKNESS. FOR EXAMPLE, 600S162-54:         <ul> <li>600 - MEMBER DEPTH IN 1/100" (6") S - MEMBER STYLE - S=STUD, T=TRACK 162 - FLANGE WIDTH IN 1/100" (1%") 54 - MATERIAL THICKNESS IN MILS (0.054")</li> </ul> </li> <li>TYPICAL METAL STUDS AND FRAMING ARE PER SCHEDULE <u>1/S1.1</u> UNO. SUBMIT SHOP AND ERECTION DRAWINGS AND MANUFACTURER'S INFORMATION SHOWING CONFORMANCE TO CRITERIA SHOWN ON DRAWINGS AND SPECIFICATIONS. MINIMUM METAL THICKNESS = 33MILS (20GA).</li> <li>TYPICAL TRACKS ARE SAME GAUGE (MILS) AS STUD, 43 MILS MINIMUM UNO. FLANGE TO DE 11/2" MIN</li> </ol>	DESIGN CRITERIA: FLOOR LIVE LOAD: ROOF LIVE LOAD: BISK CATEGORY: MIND DATA:2019 CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2 (CBC) 60 PSF (REDUCIBLE) + 15 PSF PARTITION 20 PSF (REDUCIBLE) HIMMIND DATA: MIND EXPOSURE: C INTERNAL WIND PRESSURE COEFFICIENT (GCPI) = $\pm 0.18$ COMPONENTS AND CLADDING DESIGN PRESSURES FOR SYSTEM DESIGN STANDARDEARTHQUAKE DATA:SEISMIC IMPORTANCE FACTOR, I <sub>6</sub> : 1.25 MAPPED SPECTRAL RESPONSE ACCELERATIONS: S <sub>S</sub> = 1.50; S <sub>1</sub> = 0 SITE CLASS: D SPECTRAL RESPONSE COEFFICIENTS: S <sub>DS</sub> = 1.20; S <sub>D1</sub> = 0.60 SEISMIC DESIGN CATEGORY: DSCOPE:REMOVE EXISTING AND INSTALL NEW PARTITION WALLS AT THE
<ul> <li>TO BE 1½" MIN.</li> <li>5. ALL STUDS TO BE CONTINUOUS. ALL TRACKS IN HEADERS AND SILLS TO BE CONTINUOUS SINGLE-PIECE BETWEEN JAMB STUDS OR PARAPET POSTS.</li> </ul>	GROUND FLOOR. SUPPORT FOR NEW GROUND FLOOR OPERABL PARTITION AT THE SECOND FLOOR FRAMING. NEW AND REPLACE ROOFTOP MECHANCIAL UNITS.
<ol> <li>FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR WELDING. SCREWS OR WELDS NOT SHOWN SHALL BE OF SUFFICIENT SIZE TO ENSURE THE STRENGTH OF THE CONNECTION. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED-UP WITH A ZINC-RICH PAINT. WIRE TYING OF COMPONENTS SHALL NOT BE PERMITTED.</li> </ol>	B GENERAL NOTES
7. EXPANSION ANCHOR OR SCREW ANCHOR SIZE AND EMBEDMENT ARE AS REQUIRED PER DRAWINGS. MINIMUM STEEL EDGE DISTANCE IN TRACK IS 2x ANCHOR DIAMETER AND MINIMUM SPACING IS 3x ANCHOR DIAMETER UNO. SEE EXPANSION OR SCREW ANCHOR SCHEDULE FOR CONCRETE REQUIREMENTS. FOR EXPANSION ANCHOR THROUGH METAL TRACK, USE 3" SQUARE x ¼" PLATE WASHER (OR EQUIVALENT ROUND WASHER) AT TRACK. DRILL HOLE IN PLATE WASHER FOR EXPANSION ANCHOR AS NEEDED TO ACHIEVE MINIMUM EDGE DISTANCES.	<ol> <li>REFER TO SHEETS <u>S1.1</u>, AND <u>S1.2</u> FOR STANDARD DETAILS OF CONSTRUCTION. REFER TO THE PROJECT SPECIFICATIONS FOR MATERIALS AND METHODS.</li> <li>BUILDING DIMENSIONS SHOWN ARE FOR GENERAL REFERENCE ONLY. SEE ARCHITECTURAL DRAWINGS (SAD) FOR ALL ACTUAL BUILDING DIMENSIONS. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER SO CLARIFICATION CAN BE MADE PRIOR TO COMMENCING WORK.</li> </ol>
8. METAL STUDS TO BE LATERALLY BRACED WITH GYPSUM BOARD BOTH SIDES PER CBC OR BRACED AT 4'-0"oc MAXIMUM PER <u>12/S1.1</u> .	<ol> <li>STRUCTURAL DRAWINGS SHALL NOT BE SCALED. ALL DIMENSIONS AND FIT SHALL BE DETERMINED AND VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORK.</li> </ol>
<ol> <li>TYPICAL STUD-TO-TRACK CONNECTIONS PER <u>3/S1.1</u> UNO. MAXIMUM GAP OF <sup>1</sup>/<sub>8</sub>" IS ALLOWED BETWEEN STUDS AND TRACK AT STANDARD WALLS. TRIM STUDS TO FULLY BEAR.</li> </ol>	4. DETAILS NOT FULLY OR SPECIFICALLY SHOWN SHALL BE OF SAME NATURE AS OTHER SIMILAR CONDITIONS.
<ol> <li>10. TYPICAL WALL INTERSECTIONS PER <u>13/S1.1</u> UNO.</li> <li>11. PROVIDE LIGHT GAUGE METAL BACKING PER <u>14/S1.1</u> AND <u>15/S1.1</u> FOR ARCHITECTURAL FINISHES AND FURNISHINGS, SAD.</li> </ol>	5. VERIFY WEIGHTS AND LOCATIONS OF MECHANICAL UNITS WITH MECHANICAL ENGINEER PRIOR TO PLACEMENT. UNITS VARYING OVER 10% IN WEIGHT SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION (MECHANICAL WEIGHTS SHOWN ARE MAXIMUM). CONTRACTOR TO VERIFY MECHANICAL UNIT SIZES AND WEIGHTS AS INSTALLED PRIOR TO INSTALLATION OF SPECIAL FRAMING TO ENSURE CORRECT PLACEMENT UNDER CURBS, ETC.
12. TYPICAL PUNCHOUTS PER <u>16/S1.1</u> . 13. FOR POWER ACTUATED FASTENERS (PAF) UNO: BASE FASTENER SIZE MINIMUM MINIMUM NOTES	6. SHORING AND BRACING DESIGN, MATERIALS AND INSTALLATION SHALL BE PROVIDED BY THE GENERAL CONTRACTOR, AND SHALL BE ADEQUATE FOR ALL LOADS. LEAVE IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY AND UNTIL EINAL STRUCTURAL CONSTRUCTION IS COMPLETED. THE CONTRACTOR SHALL

	GALV	GALVANIZED	PTDF	PRESSURE TREATED
•	GB	GRADE BEAM	DT	DOUGLAS FIR
G	GLB GR	GLUE LAMINATED BEAM GRADE	PT R	POINT RADIUS
	HD	HOLD DOWN	RBS	REDUCED BEAM SECTION
	HDG	HOT-DIP GALVANIZED	RFTR	RAFTER
	HDR	HEADER	REF	REFERENCE
	HGR HK	HANGER HOOK	REINF REQD	REINFORCING REQUIRED
	HORIZ	HORIZONTAL	RET	RETAINING
i	HS	HIGH STRENGTH	REV	REVISION
	HSB	HIGH STRENGTH BOLT	RF	ROOF
	HSFB	HIGH STRENGTH FRICTION BOLT	RWD S	REDWOOD AMERICAN STANDARD BEAN
	HSG	HIGH STRENGTH GROUT	SAD	SEE ARCHITECTURAL
	HSH	HORIZONTAL SLOTTED		DRAWINGS
	1100	HOLE	SB	SOLID BLOCK
	HSS	HOLLOW STRUCTURAL SECTION	SC SCBF	SLIP CRITICAL SPECIAL CONCENTRIC
DARD	НТ	HEIGHT	CODI	BRACED FRAME
	ID	INSIDE DIAMETER	SCD	SEE CIVIL DRAWINGS
	IJ	I SHAPED WOOD BUILT	SCHED	SCHEDULE
TEEL	INT	UP TRUSS INTERIOR	SED SEOR	SEE ELECTRICAL DRAWING STRUCTURAL ENGINEER OF
	JST	JOIST	SLOK	RECORD
LUMBER	JT	JOINT	SFRS	SEISMIC FORCE RESISTING
	KP	KING POST	0.170	SYSTEM
	L Lb or #	STEEL ANGLE POUND(s)	SHTG SIM	SHEATHING SIMILAR
	LGMF	LIGHT GAGE METAL	SKYLT	SKYLIGHT
		FRAMING	SLD	SEE LANDSCAPE DRAWING
	LGMFC	LIGHT GAGE METAL	SMF	SPECIAL MOMENT FRAME
	LL	FRAMING CONTRACTOR	SMS SMD	SHEET METAL SCREW SEE MECHANICAL DRAWING
	LLH	LONG LEG HORIZONTAL	SOG	SLAB ON GRADE
	LLV	LONG LEG VERTICAL	SPCG	SPACING
	LOC	LOCATION	SPD	SEE PLUMBING DRAWINGS
	LS LSL	LAG SCREW LAMINATED STRAND LUMBER	SPEC SQ	SPECIFICATION SQUARE
NRY UNIT	LVL	LAMINATED VENEER LUMBER	SS	SELECT STRUCTURAL
-	LWC	LIGHTWEIGHT CONCRETE		or STAINLESS STEEL
	MAX	MAXIMUM	STGR	STAGGERED
ANCHOR	MB MBM	MACHINE BOLT METAL BUILDING	STD STIFF	STANDARD STIFFENER
L WELD		MANUFACTURER	STL	STEEL
	MC	MISCELLANEOUS CHANNEL	STRUCT	STRUCTURAL
	MECH	MECHANICAL	SW	SHEAR WALL
	MEZZ MF	MEZZANINE MOMENT FRAME	SYM T&B	SYMMETRICAL TOP AND BOTTOM
	MFR	MANUFACTURER	T&G	TONGUE AND GROOVE
	MIN	MINIMUM	THK	THICK
	MISC MIW	MISCELLANEOUS MALLEABLE IRON WASHER	THRD THRU	THREADED THROUGH
	MTL	METAL	TL	TOTAL LOAD
	(N)	NEW	TN	TOE NAIL
	NIC	NOT IN CONTRACT	TOC	TOP OF CONCRETE
	NO or # NS	NUMBER NEAR SIDE	TOF TOM	TOP OF FRAMING TOP OF MASONRY
	NSG	NON-SHRINK GROUT	TOP	TOP OF PLYWOOD
TION	NTS	NOT TO SCALE	TOS	TOP OF STEEL
	NWC	NORMAL-WEIGHT CONCRETE	TOT	TOTAL
	O/ oc	OVER ON CENTER	TU TYP	TILT UP TYPICAL
	ÖD	OUTSIDE DIAMETER	UNO	UNLESS NOTED OTHERWISI
	OH	OPPOSITE HAND	VERT	VERTICAL
	OPNG	OPENING	VIF	VERIFY IN FIELD
	OPP OVS	OPPOSITE OVERSIZED	VSH W	VERTICAL SLOTTED HOLE WIDE FLANGE STEEL BEAM
	ŎŴ	OTHERWISE	Ŵ/	WITH
	OWT	OPEN WEB TRUSS	W/O	WITHOUT
ISEDT	P.	PLATE or PROPERTY LINE POST ABOVE	WD WHS	WOOD WELDED HEADED STUD
ISERT	PA PDP	POWDER DRIVEN PINS	WHS WLD	WELDED HEADED STUD WELDED
	PEN	PANEL EDGE NAIL	WP	WORK POINT/WATERPROOF
TE	PERP	PERPENDICULAR	WS	WOOD SCREW
RY	PES	PANEL EDGE SCREWS	WT	
	PJP PLF	PARTIAL JOINT PENETRATION POUNDS PER LINEAR FOOT	WTS WWR	WELDED THREADED STUD WELDED WIRE
	PNL	PANEL		REINFORCEMENT
	PSF	POUNDS PER SQUARE FOOT		
	PSI PSL	POUNDS PER SQUARE INCH PARALLEL STRAND LUMBER		
	PTB	PARALLEL STRAND LOWBER		

	EXISTING CONSTRUCTION NOTES
$\mathcal{L}$	
1.	IN PREPARING THE PROJECT PLANS, THE SOURCE OF INFORMATION WAS BASE

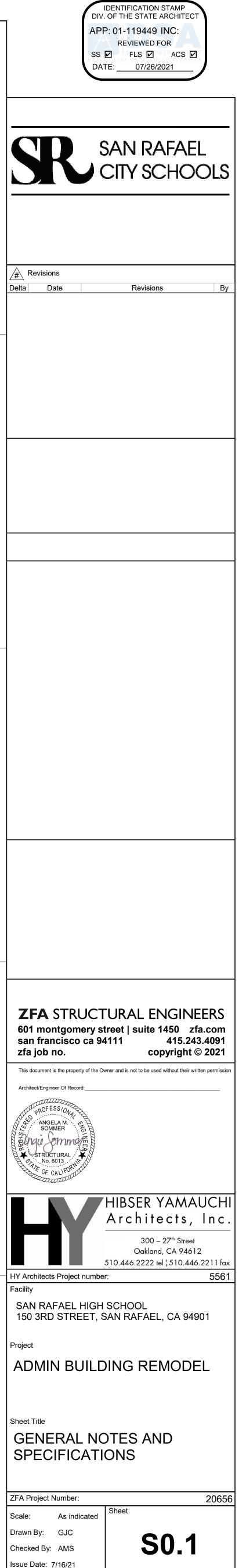
FORM.

FINAL STRUCTURAL CONSTRUCTION IS COMPLETED. THE CONTRACTOR SHALL ENGAGE A LICENSED CIVIL OR STRUCTURAL ENGINEER TO PROVIDE SHORING.

7. SPECIAL INSPECTIONS ARE REQUIRED PER THE DSA-103 TESTING AND INSPECTION

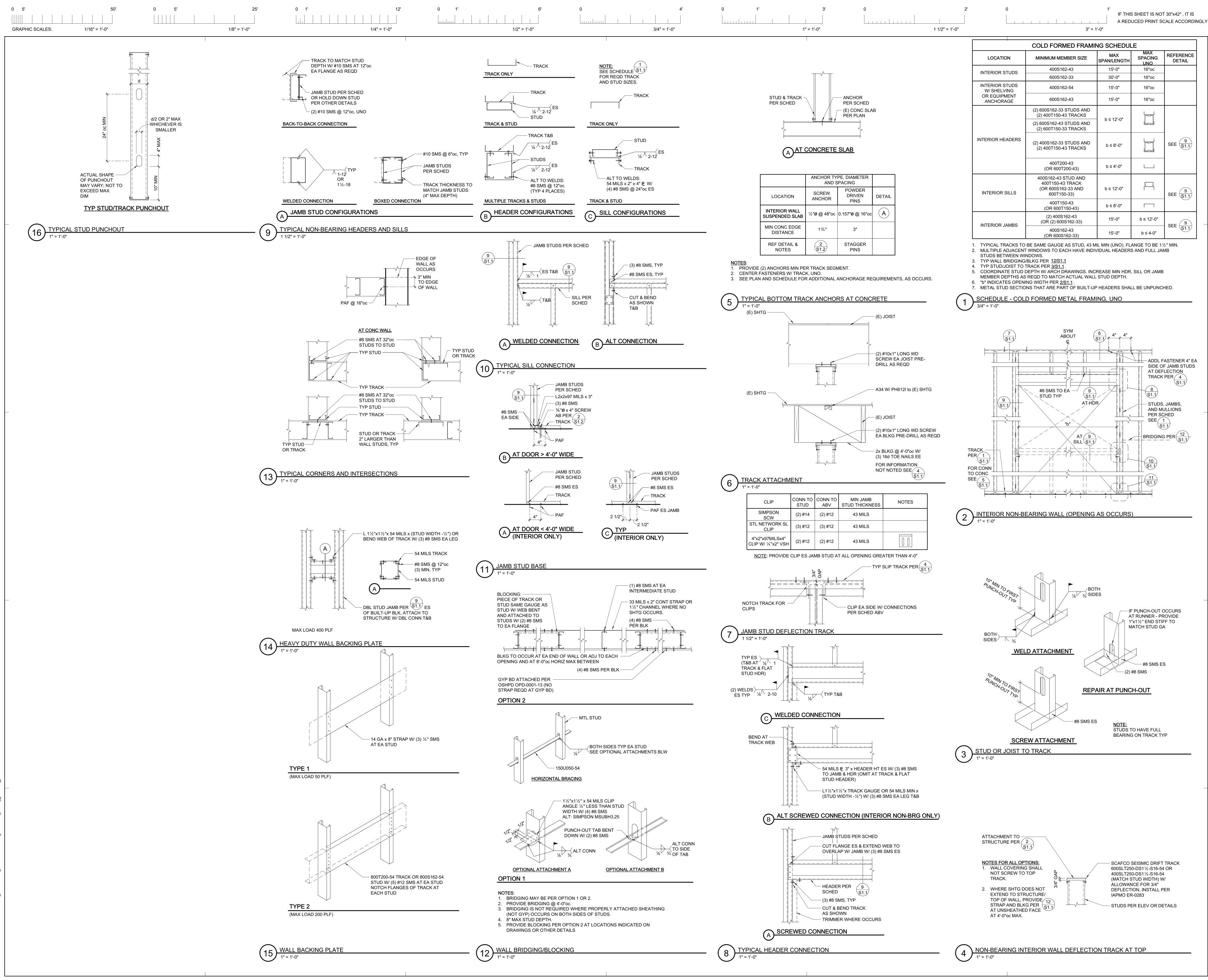
- ON THE EXISTING BUILDING PLANS PREPARED BY, DONALD BEACH KIRBY & THOMAS B. MULVIN ARCHITECTS ASSOCIATED, DATED MAY 26,1948; BY, ENGLE AND ENGLE, DATED NOV 15,1965; BY, MARSHALL/LEE, DATED FEB 6,1998; BY, DES AND DEL CAMPO & MARU , DATED AUGUST 17,2004. THE CONTRACTOR SHALL VERIFY ALL EXISTING JOB CONDITIONS, REVIEW THE PLANS AND VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ALL DISCREPANCIES AND EXCEPTIONS BEFORE PROCEEDING WITH ANY WORK. DRAWINGS FOR THE EXISTING CONSTRUCTION ARE AVAILABLE FOR REVIEW.
- 2. ALL WORK NOT INDICATED AS EXISTING (E) SHALL BE ASSUMED TO BE NEW (N).
- 3. ANY REMOVAL, CUTTING, DRILLING, ETC OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE. SMALL TOOLS SHALL BE USED IN ORDER NOT TO JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE STRUCTURE. IF STRUCTURAL MEMBERS OR MECHANICAL, ELECTRICAL, OR ARCHITECTURAL ELEMENTS NOT INDICATED FOR REMOVAL INTERFERE WITH THE NEW WORK, THE ARCHITECT/ENGINEER SHALL BE IMMEDIATELY NOTIFIED AND PRIOR APPROVAL SHALL BE OBTAINED BEFORE REMOVAL OF THE MEMBERS.
- 4. DO NOT OVER CUT EXISTING WOOD, CONCRETE, MASONRY OR OTHER WORK TO REMAIN. CUTS SHALL BE MADE NEATLY TO A CORNER, THEN ALTERNATE MEANS SHALL BE USED TO REMOVE REMAINING MATERIAL. CONTRACTOR IS RESPONSIBLE FOR REPAIR/REPLACEMENT OF OVER CUT MATERIAL AS DIRECTED BY THE ARCHITECT AND/OR ENGINEER.
- 5. EXISTING DAMAGED STRUCTURAL MEMBERS WHICH ARE UNCOVERED SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND REPAIR.
- 6. EXISTING CONCRETE SURFACE ABUTTING NEW CONCRETE SHALL BE ROUGHENED TO ¼" AMPLITUDE AND THOROUGHLY CLEANED OF DUST, LOOSE AGGREGATE, LAITANCE, ETC.
- 7. REMODELING REQUIRES ASSUMPTIONS BE MADE REGARDING EXISTING CONDITIONS WHICH MAY NOT BE VERIFIABLE WITHOUT DESTROYING OTHERWISE ADEQUATE OR SERVICEABLE PORTIONS OF THE STRUCTURE. THIS ANALYSIS DOES NOT MAKE ANY GUARANTEE TO THE ADEQUACY OF THE STRUCTURAL DESIGN OF THE EXISTING BUILDING NOT SPECIFICALLY ADDRESSED IN THE STRUCTURAL CALCULATIONS. ZFA SHALL NOT BE RESPONSIBLE FOR UNSATISFACTORY PERFORMANCE OF EXISTING PORTIONS OF THE STRUCTURE NOT SPECIFICALLY ADDRESSED IN THE CONSTRUCTION DOCUMENTS.

	SHEET INDEX
S0.1	GENERAL NOTES AND SPECIFICATIONS
S1.1	TYPICAL CFS DETAILS
S1.2	TYPICAL MISCELLANEOUS DETAILS
S2.1	FIRST FLOOR FRAMING PLAN
S2.2	SECOND FLOOR FRAMING PLAN
S2.3	ROOF FRAMING PLAN
S5.1	DETAILS



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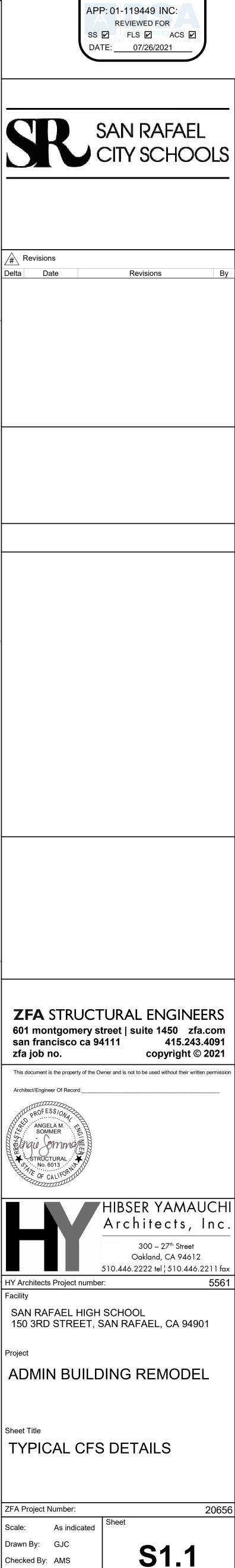
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		PE, DIAMETER SPACING	
N	SCREW ANCHOR	POWDER DRIVEN PINS	DETAIL
/ALL SLAB	½"Ø@48"oc	0.157"ø@ 16"oc	A
DGE E	1¾"	3"	
L &	2 S1.2	STAGGER PINS	

CONN TO STUD	CONN TO ABV	MIN JAMB STUD THICKNESS	NOTES						
(2) #14	(2) #12	43 MILS							
(3) #12	(3) #12	43 MILS							
(2) #12	(2) #12	43 MILS							

	COLD FORMED FRAMI	NG SCHEDUL	E	
LOCATION	MINIMUM MEMBER SIZE	MAX SPAN/LENGTH	MAX SPACING UNO	REFERENCE DETAIL
INTERIOR STUDS	400S162-43	15'-0"	16"oc	
	600S162-33	30'-0"	16"oc	
INTERIOR STUDS W/ SHELVING	400S162-54	15'-0"	16"oc	
OR EQUIPMENT ANCHORAGE	600S162-43	15'-0"	16"oc	
	(2) 600S162-33 STUDS AND (2) 400T150-43 TRACKS	- b≤12'-0"		
	(2) 600S162-43 STUDS AND (2) 600T150-33 TRACKS	0 ≤ 12 -0		
INTERIOR HEADERS	(2) 400S162-33 STUDS AND (2) 400T150-43 TRACKS	b ≤ 8'-0"		SEE 9 S1.1
	400T200-43 (OR 600T200-43)	b ≤ 4'-0"		
INTERIOR SILLS	400S162-43 STUD AND 400T150-43 TRACK (OR 600S162-33 AND 600T150-33)	b ≤ 12'-0"		SEE 9 S1.1
	400T150-43 (OR 600T150-43)	b ≤ 8'-0"	[]	
INTERIOR JAMBS	(2) 400S162-43 (OR (2) 600S162-33)	15'-0"	b ≤ 12'-0"	SEE 9
	400S162-43 (OR 600S162-33)	15'-0"	b ≤ 4-0"	SEE S1.1



IDENTIFICATION STAMP

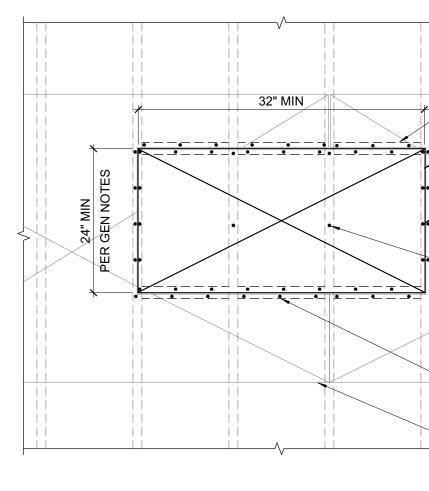
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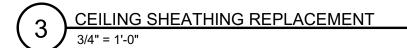
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25'

1/8" = 1'-0"



REFLECTED CEILING PLAN VIEW

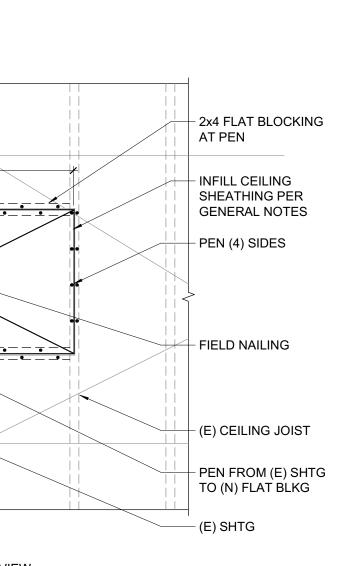


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3'

1" = 1'-0"

2'



А	DHES	IVE ANG	CHOR IN	2500 PSI	MIN CON	CRETE		
ADHESIVE	ANC	HOR	PILOT	MIN EMBED	MIN EDGE	MIN		
TYPE	THRD ROD	REBAR	HOLE	UNO H <sub>ef</sub>	DISTANCE C <sub>min</sub>	SPCG S <sub>min</sub>	DEPTH H <sub>min</sub>	
	³∕8 <b>"Ø</b>	#3	1⁄2 <b>"Ø</b>	3"	1 <sup>3</sup> ⁄4"	3"	H <sub>ef</sub> + 2½"	
	½ <b>"ø</b>	#4	5∕8 <b>"Ø</b>	4"	1 <sup>3</sup> ⁄4"	3"	H <sub>ef</sub> + 31/8"	
SIMPSON	5∕8 <b>"Ø</b>	#5	³∕₄ <b>"Ø</b>	5"	1 <sup>3</sup> ⁄4"	3"	H <sub>ef</sub> + 3¾"	
SET-XP (ICC-ESR	³∕₄ <b>"Ø</b>	#6	7∕8 <b>"Ø</b>	6"	13⁄4"	3"	H <sub>ef</sub> + 4 <sup>3</sup> / <sub>8</sub> "	
2508)	7∕8 <b>"Ø</b>	#7	1"Ø	7"	1 <sup>3</sup> ⁄4"	3"	H <sub>ef</sub> + 4"	
,	1"Ø	#8	11⁄8 <b>"Ø</b>	8"	1 <sup>3</sup> ⁄4"	3"	H <sub>ef</sub> + 5%"	
	1¼"Ø	#10	1¾ <b>"Ø</b>	10"	2¾"	6"	H <sub>ef</sub> + 6 1/8 "	
	³∕8 <b>"Ø</b>	N/A	7∕16 <b>"Ø</b>	3"	1 <sup>3</sup> ⁄4 "	1%"	_	
	N/A	#3	1⁄2 <b>"Ø</b>	3"	1 <sup>3</sup> ⁄4 "	1%"		
HILTI HIT- HY 200R (ICC-ESR 3187)	½ <b>"ø</b>	N/A	9∕ <sub>16</sub> "Ø	4"	1 <sup>3</sup> ⁄4"	21⁄2"	─ H <sub>ef</sub> + 1¼"	
	N/A	#4	5∕8 <b>"Ø</b>	4"	1¾"	21⁄2"		
	5∕8 <b>"ø</b>	#5	³∕₄ <b>"Ø</b>	5"	1 <sup>3</sup> ⁄4 "	31⁄8"	H <sub>ef</sub> + 1½"	
	³∕₄ <b>"Ø</b>	#6	7∕8 <b>"Ø</b>	6"	1 <sup>3</sup> ⁄4"	3¾"	H <sub>ef</sub> + 1¾"	
	7∕8 <b>"Ø</b>	#7	1"Ø	7"	1¾"	4 <u>%</u> "	H <sub>ef</sub> + 2"	
	1"Ø	#8	1⅓"Ø	8"	1¾"	5"	H <sub>ef</sub> + 2¼"	
	N/A	#9	1⅔ <b>"Ø</b>	9"	1¾"	5%"	- H <sub>ef</sub> + 2¾"	
	1¼"Ø	N/A	N/A 1¾"Ø 10"		1¾"	6¼"	⊓ef <b>+ ∠</b> 74 <sup>°°</sup>	
	N/A	#10	1½"ø	10"	1 3⁄4 "	6¼"	H <sub>ef</sub> + 3"	
		CHOR PEF						
	TOF CON	P OF		S <sub>min</sub> DGE OF COI				
<u>IOTES:</u>			r As	SOCCURS				

3" = 1'-0"

<u>NOTES:</u>

- 1. INSTALL ADHESIVE ANCHORS PER MANUFACTURER'S INFORMATION AND ICC REPORT.
- 2. CONTRACTOR TO VERIFY MINIMUM EDGE DISTANCES, SPACING, AND THICKNESS ARE IN ACCORDANCE W/ SCHEDULE PRIOR TO INSTALLING ANCHOR.
- 3. HOLES TO BE DRILLED W/ ROTARY DRILL ONLY. WHEN DRILLING HOLES IN EXISTING CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A REASONABLE CLEARANCE BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR. FILL ABANDONED HOLES W/ HIGH STRENGTH GROUT.
- 4. SPECIAL INSPECTION IS REQUIRED PER SECTION 1705A AND THE REQUIREMENTS OF THE ICC REPORTS. THE SPECIAL INSPECTOR SHALL PERFORM PERIODIC/CONTINUOUS INSPECTION IN ACCORDANCE WITH TABLE 1705A.3. THE SPECIAL INSPECTOR SHALL INSPECT ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANLINESS, EMBEDMENT DEPTH, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, DRILL BIT DIAMETER, HOLE DEPTH, EDGE DISTANCE(S), ANCHOR SPACING(S), CONCRETE THICKNESS, AND ADHESIVE INJECTION. TEST ANCHORS IN ACCORDANCE W/ CBC SECTION 1910A.5. SEE DRAWINGS FOR SPECIFIC TENSION TEST LOADS FOR ANCHORS.

ADHESIVE ANCHOR IN CONCRETE 3/4" = 1'-0"

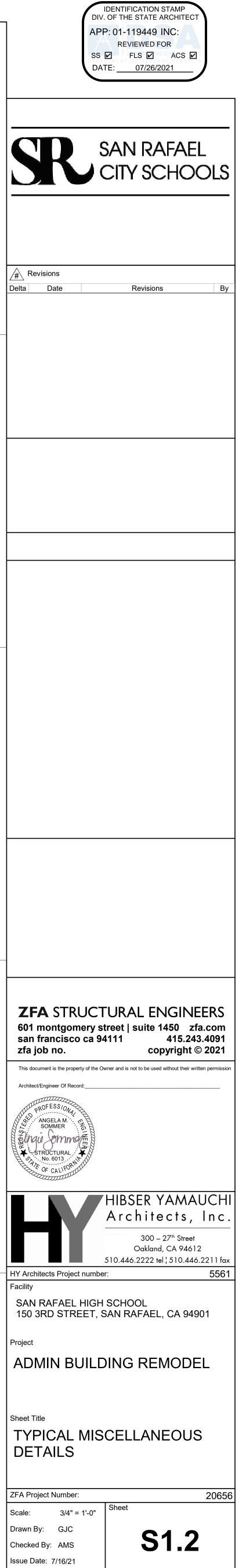
SCREW ANCHOR IN 2500 PSI MIN CONCRETE							
ANCHOR TYPE	ANCHOR AND PILOT HOLE DIA	MINIMUM EMBEDMENT H <sub>nom</sub>	MINIMUM EDGE DIST C <sub>min</sub>		•••••=	MIMIMUM INSTALL TORQUE (FT-LB)	MAXIMUM INSTALL TORQUE (FT-LB)
	1/4 "	1%"	1½"	1½"	3¼"	10	24
	<sup>3</sup> /8"	21⁄2"	1¾"	3"	4"	10	50
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1⁄2"	3¼"	1¾"	3"	5"	10	65
	10	100					
2713)	3⁄4"	5½"	1¾"	3"	8¾"	20	150
	1⁄4"	1%"	1½"	1½"	3¼"	10	18
ын ті	<sup>3</sup> /8"	21⁄2"	1½"	3"	4"	10	40
	1⁄2"	3"	1¾"	3"	4¾"	10	45
	<sup>5</sup> /8"	3¼"	1¾"	4"	5"	10	85
3027)	3/4 "	4"	1¾"	4"	6"	20	95
	3027)       3/4"       4"       13/4"       4"       6"       20       95         3027)       3/4"       4"       6"       20       95         3027)       3/4"       4"       6"       20       95         3027)       3/6 "Ø OVS HOLE AT STL THICKER THAN 12GA (½") MAX ½6 "Ø OVS         ANCHOR PER PLAN &       100 ES OTUS						

JR PER PLAN & -HOLES OTHERWISE DETAILS HOLE DEPTH TOP OF CONC — EDGE OF CONC -AS OCCURS C<sub>min</sub> S<sub>min</sub> NOTES:

1. INSTALL SCREW ANCHORS PER MANUFACTURER'S INFORMATION AND ICC REPORT INSTRUCTIONS. SPECIAL INSPECTION IS REQUIRED PER SECTION 1705A OF THE CBC AND THE REQUIREMENTS OF THE ICC REPORTS. INSTALLED ANCHORS SHALL BRING CONNECTED PLIES INTO FIRM CONTACT, MEETING THE INSTALL TORQUE BUT NOT EXCEEDING THE MAXIMUM INSTALL TORQUE.

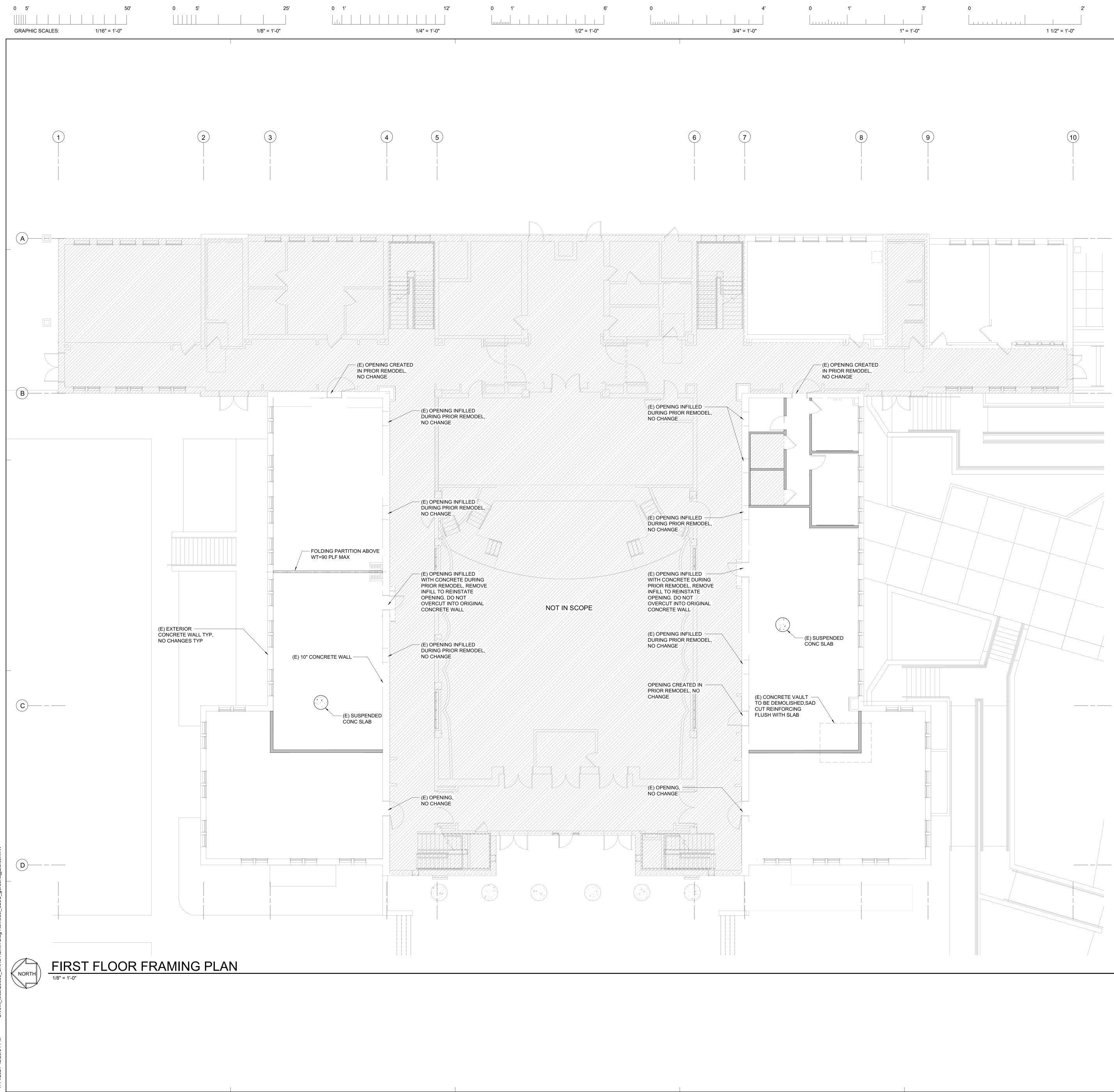
- 2. CONTRACTOR TO VERIFY MINIMUM EDGE DISTANCES, SPACING AND THICKNESS ARE IN ACCORDANCE W/ SCHEDULE PRIOR TO INSTALLING ANCHOR.
- 3. HOLES TO BE DRILLED W/ ROTARY DRILL ONLY. WHEN INSTALLING DRILLED-IN ANCHORS IN EXISTING REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A REASONABLE CLEARANCE BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR. FILL ABANDONED HOLES W/ HIGH STRENGTH GROUT.
- 4. THE SPECIAL INSPECTOR SHALL PERFORM PERIODIC/CONTINUOUS INSPECTION IN ACCORDANCE WITH TABLE 1705A.3. THE SPECIAL INSPECTOR SHALL INSPECT ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANLINESS, EMBEDMENT DEPTH, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, DRILL BIT DIAMETER, HOLE DEPTH, EDGE DISTANCE(S), ANCHOR SPACING(S), CONCRETE THICKNESS, AND TIGHTENING TORQUE.
- 5. TEST ANCHORS IN ACCORDANCE W/ CBC SECTION 1910A.5.

2 SCREW ANCHOR IN CONCRETE 3/4" = 1'-0"

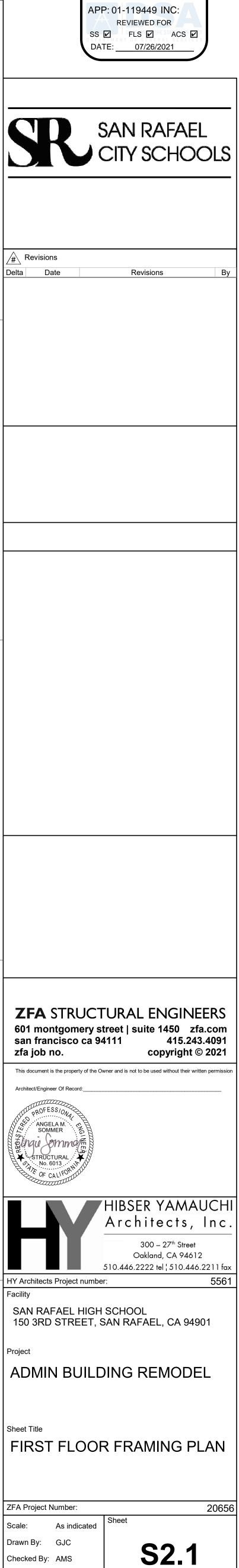


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	PLAN LEGEND						
SYMBOL	REFERENCE DETAIL	DESCRIPTION					
		INDICATES EXISTING WALLS ABOVE.					
_	<u>1/S1.1</u>	INDICATES NEW NON-BEARING COLD-FORMED STEEL PARTITION WALL ABOVE.					
===		INDICATES EXISTING STRUCTURAL WALL BELOW.					
88)		INDICATES GRIDLINE AT FACE OR CENTERLINE OF WALL.					
 L MU=XX#	<u>2/M5.1</u> <u>3/M5.1</u>	INDICATES MECHANICAL UNIT AND MAXIMUM WEIGHT, SMD					

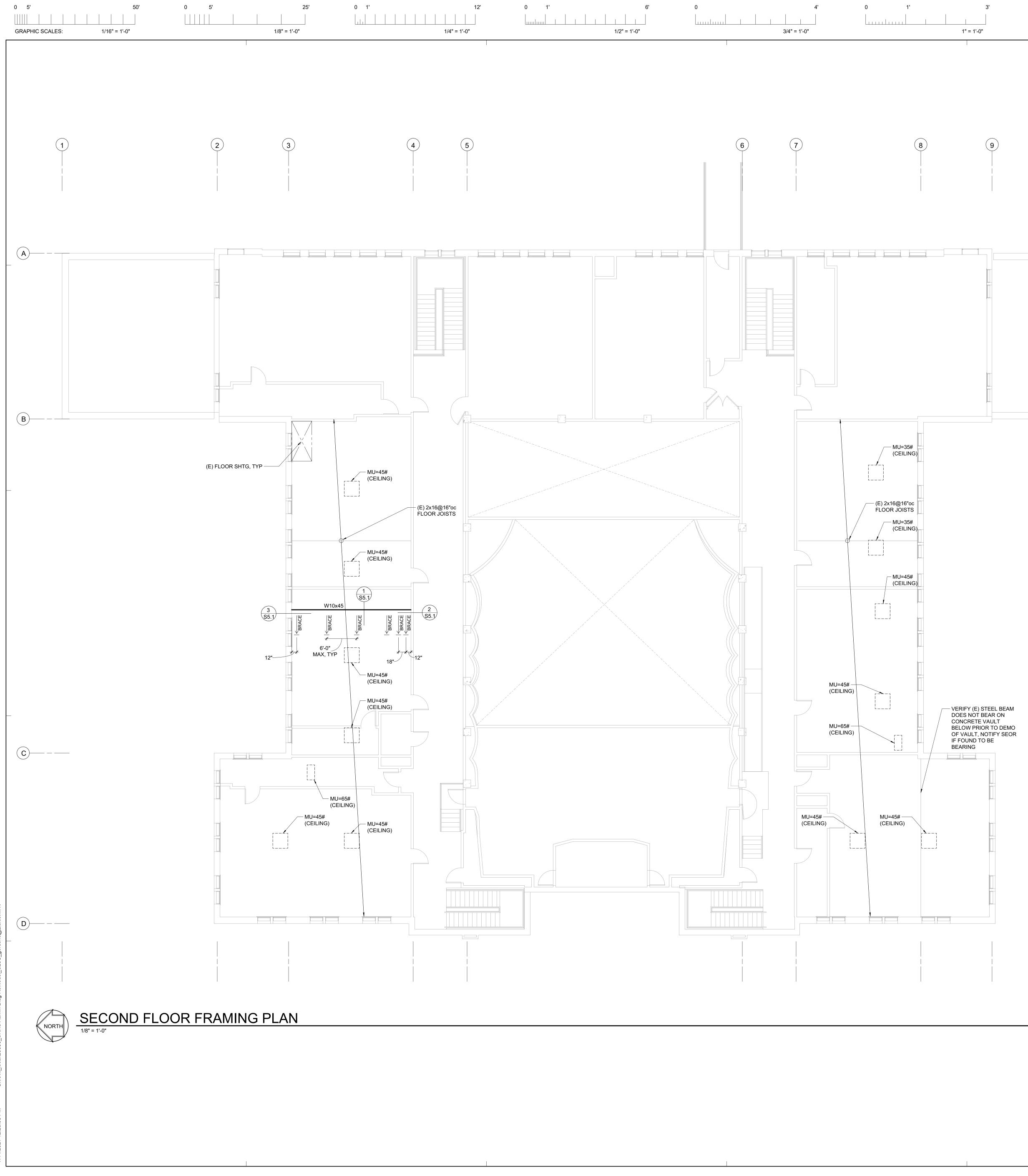


IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITEC

Issue Date: 7/16/21 Revit Version: 2020

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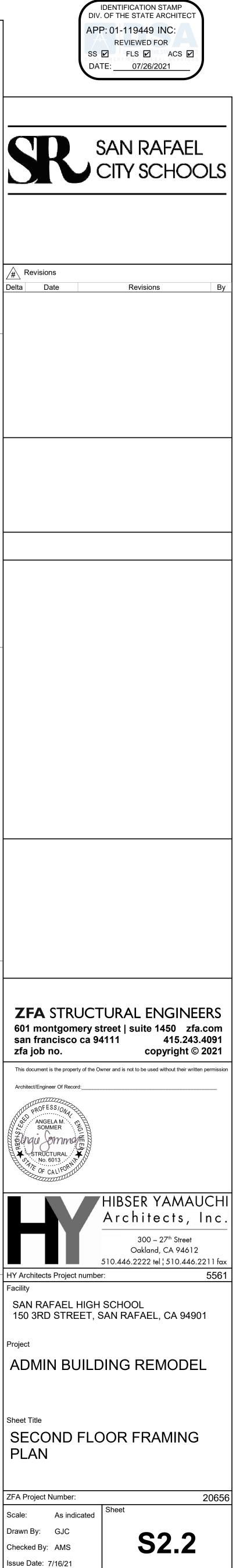
9	10	SECOND FLOOR FRAMING PLAN NOTES:         1. WHERE NEW MECHANICAL, ELECTRICAL, OR PLUMBING REQUIRES EXISTING CEILING SHEATHING TO BE REMOVED, REMOVE (E) PLYWOOD IN RECTANGULAR SECTIONS AND REPLACE PLYWOOD/NAILING PER GENERAL NOTES AND DETAIL <u>3/S1.2</u> .         PLAN LEGEND         SYMBOL REFERENCE DESCRIPTION         INDICATES EXISTING WALLS ABOVE.
9	10	SYMBOL REFERENCE DESCRIPTION
		INDICATES NEW NON-BEARING COLD-FORMED           1/S1.1         INDICATES NEW NON-BEARING COLD-FORMED           STEEL PARTITION WALL ABOVE.
		INDICATES EXISTING STRUCTURAL WALL     BELOW.
		88 INDICATES GRIDLINE AT FACE OR CENTERLINE OF WALL.
		i2/M5.1INDICATES MECHANICAL UNIT AND MAXIMUML3/M5.1WEIGHT, SMDMU=XX#3/M5.1

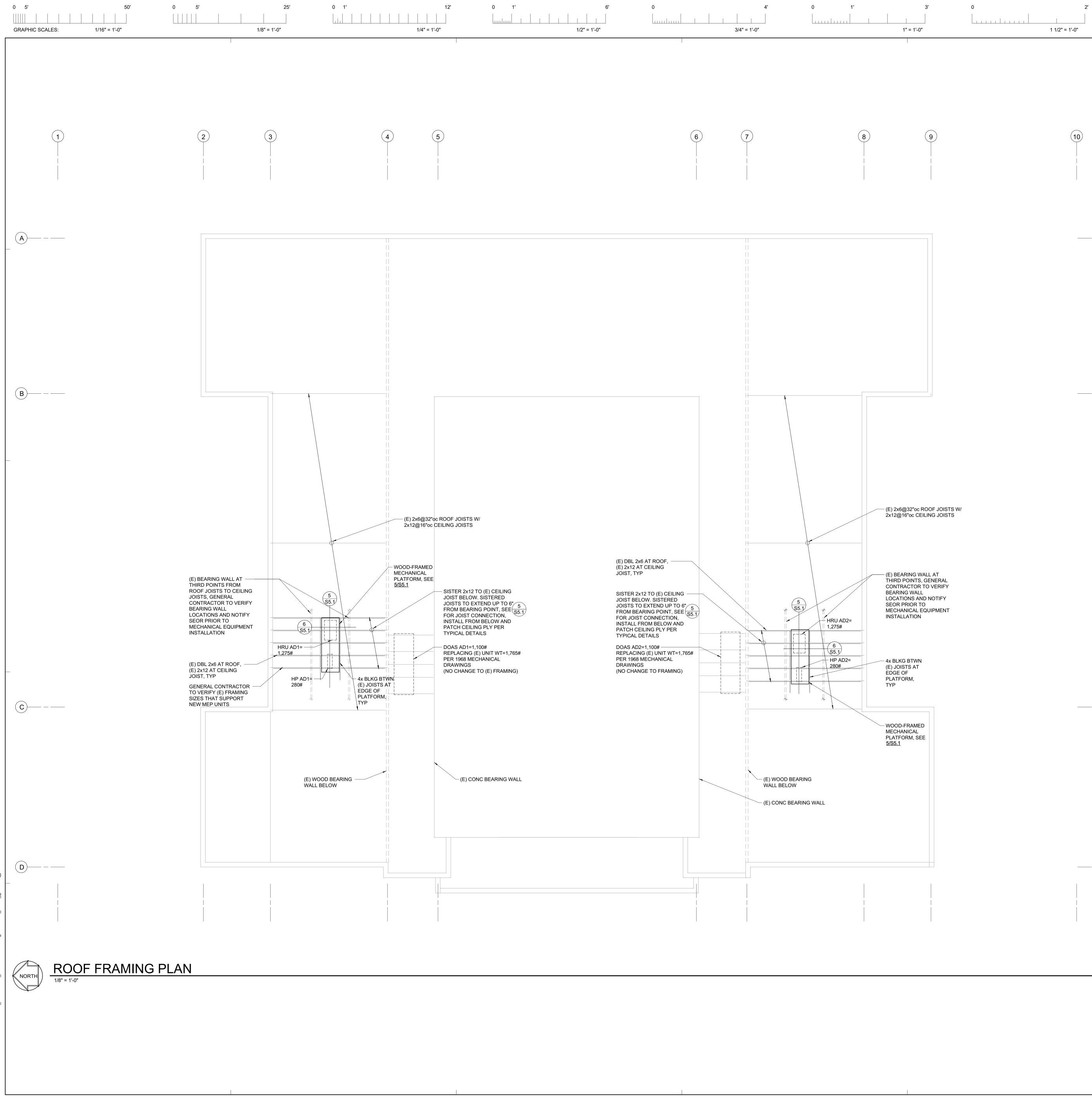
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r		
		ROOF PLAN LEGEND
SYMBOL	REFERENCE DETAIL	DESCRIPTION
		INDICATES EXISTING WALLS ABOVE.
		INDICATES EXISTING STRUCTURAL WALL BELOW.
88		INDICATES GRIDLINE AT FACE OR CENTERLINE OF WALL.
[] MU=XX#		INDICATES APPROXIMATE LOCATION, SIZE, AND MAXIMUM WEIGHT OF MECHANICAL UNIT, INCLUDING CURBS. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

— (E) 2x6@32"oc ROOF JOISTS W/ 2x12@16"oc CEILING JOISTS

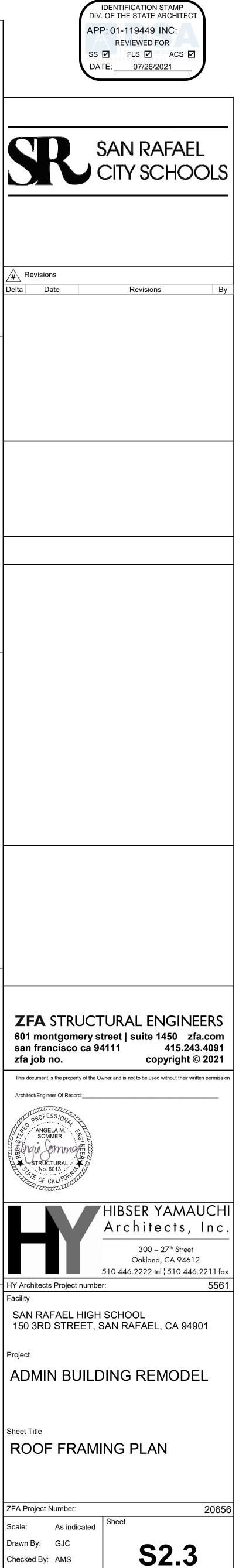
– (E) BEARING WALL AT THIRD POINTS, GENERAL CONTRACTOR TO VERIFY BEARING WALL LOCATIONS AND NOTIFY SEOR PRIOR TO MECHANICAL EQUIPMENT INSTALLATION

– 4x BLKG BTWN (E) JOISTS AT ÈDGE OF PLATFORM,

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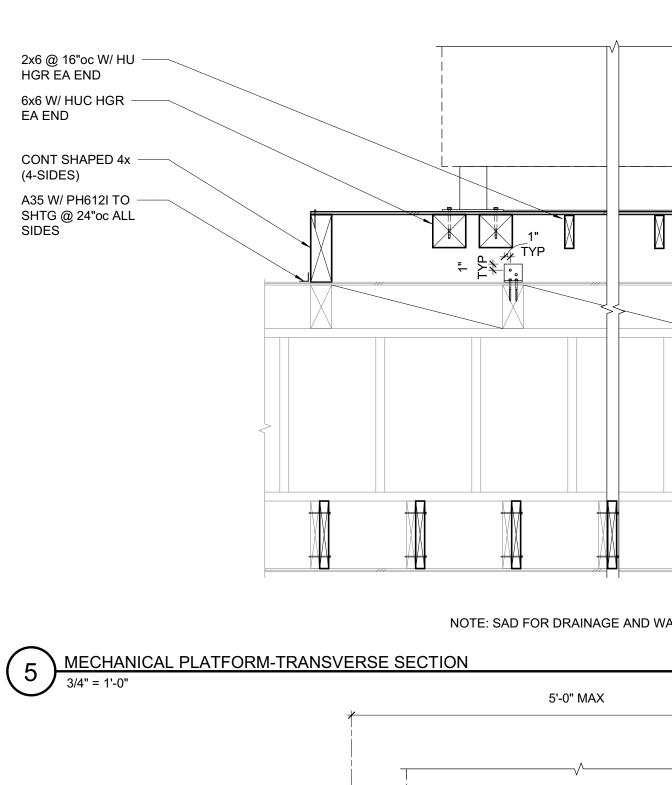
Sheet 30 of 68

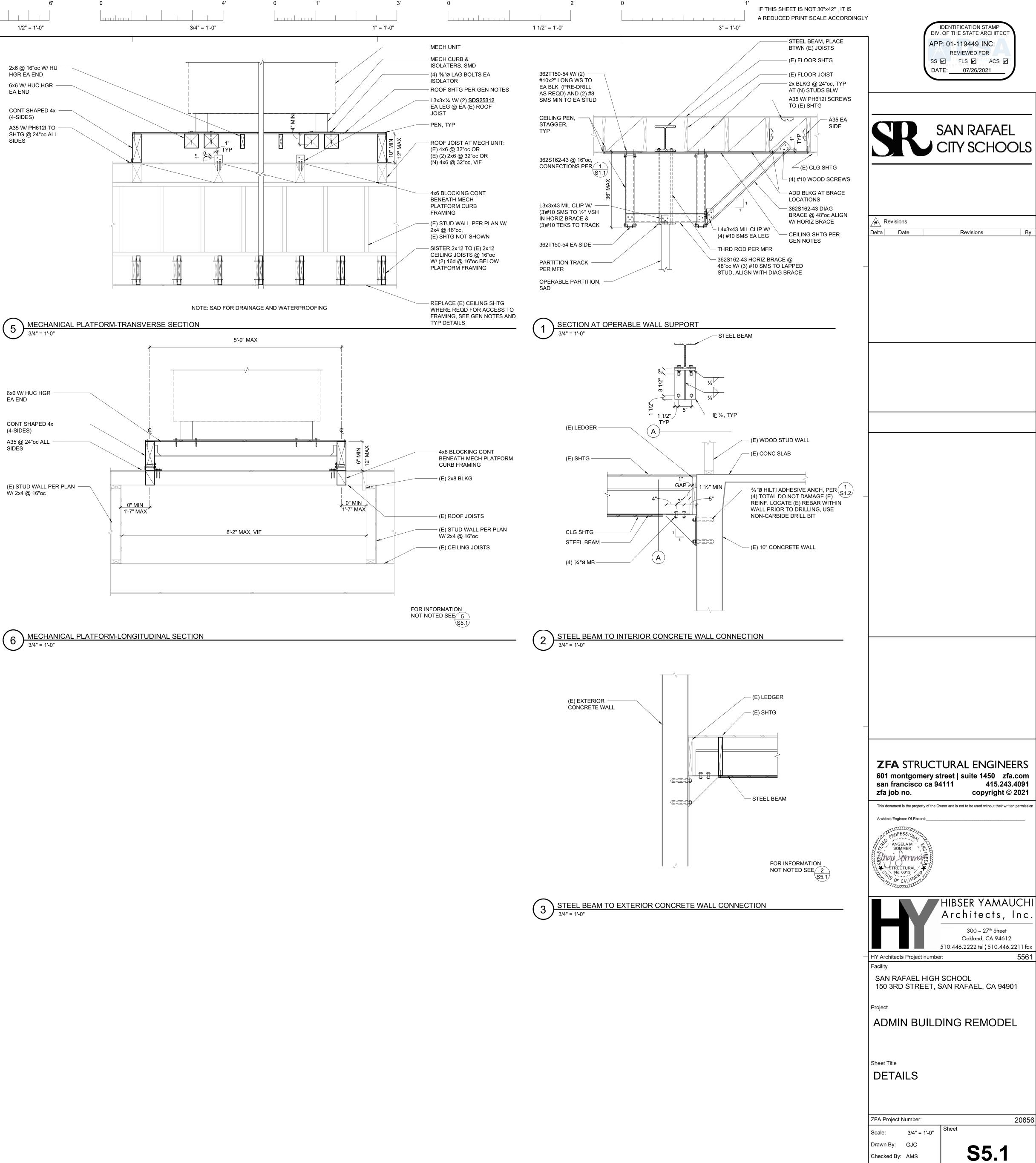


25'

1/8" = 1'-0"

12'





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0 5'								50'
GRAPHIC SCALES:					1/16	" = 1'	-0"	

QC INI %

25

1/8" = 1'-0"

SYMBOL	ABBRE VIATION ABV ABC AF AF AF AD, AP AC APD ANV AAV BV BV BDD BF BHP BTU(H) BFV BPT CBV CLG CEF CKV CLG CEF CKV CLG CEF CKV CHWS CHWR CP CLR CONC	<b>DESCRIPTION</b> ABOVE         ABOVE CEILING         ABOVE FLOOR         ABOVE FINISHED FLOOR         ACCESS DOOR , ACCESS PANEL         AIR CONDITIONING         AIR PRESSURE DROP, INCHES WATER COLUMN         ANGLE VALVE         AUTOMATIC AIR VENT         BALL VALVE         BACK DRAFT DAMPER         BELOW FLOOR         BRAKE HORSE POWER         BRITISH THERMAL UNITS (PER HOUR)         BUTTERFLY VALVE         BYPASS TIMER         CALIBRATED BALANCE VALVE         CEILING         CEILING EXHAUST FAN         CHECK VALVE         CHILLED WATER SUPPLY PIPING         CHILLED WATER RETURN PIPING         CIRCULATING PUMP		ABBREVIATION IE KW LDB LWB LRA LVR MAD MAV MFR MAX MIN MCC MD (N) OC OA OA OD OV	AL LEGEND cont'd         DESCRIPTION         INVERT ELEVATION         KILOWATTS         LEAVING DRY BULB IN DEGREES FAHRENHEIT         LEAVING WET BULB IN DEGREES FAHRENHEIT         LOCKED ROTOR AMPERES         LOUVER         MANUAL AIR DAMPER         MANUAL AIR VENT         MANUFACTURER         MAXIMUM         MINIMUM         MOTOR CONTROL CENTER         MOTORIZED CONTROL DAMPER         NEW         ON CENTER         OUTSIDE AIR         OUTSIDE AIR DAMPER         OUTSIDE AIR DAMPER         OUTSIDE AIR DAMPER	
A A A A BPT KA BPT KA CHWS 	ABC AF AFF AD, AP AC APD ANV AAV BV BDD BF BHP BTU(H) BFV BPT CBV CLG CEF CKV CLG CEF CKV CLG CEF CKV CHWS CHWR CP CLR	ABOVE CEILING ABOVE FLOOR ABOVE FINISHED FLOOR ACCESS DOOR, ACCESS PANEL AIR CONDITIONING AIR PRESSURE DROP, INCHES WATER COLUMN ANGLE VALVE AUTOMATIC AIR VENT BALL VALVE BACK DRAFT DAMPER BELOW FLOOR BRAKE HORSE POWER BRITISH THERMAL UNITS (PER HOUR) BUTTERFLY VALVE BYPASS TIMER CALIBRATED BALANCE VALVE CEILING CEILING EXHAUST FAN CHECK VALVE CHILLED WATER SUPPLY PIPING CHILLED WATER RETURN PIPING	چ ج	KW LDB LWB LRA LVR MAD MAV MFR MAX MIN MCC MD (N) OC OA OA OAD OD	KILOWATTS LEAVING DRY BULB IN DEGREES FAHRENHEIT LEAVING WET BULB IN DEGREES FAHRENHEIT LOCKED ROTOR AMPERES LOUVER MANUAL AIR DAMPER MANUAL AIR DAMPER MANUAL AIR VENT MANUFACTURER MAXIMUM MINIMUM MOTOR CONTROL CENTER MOTORIZED CONTROL DAMPER NEW ON CENTER OUTSIDE AIR OUTSIDE AIR DAMPER	
A A A A BPT KA BPT KA CHWS 	AF AFF AD , AP AC APD ANV AAV BV BDD BF BHP BTU(H) BFV BPT CBV CLG CEF CKV CLG CEF CKV CLG CEF CKV CLR	ABOVE FLOOR ABOVE FINISHED FLOOR ACCESS DOOR, ACCESS PANEL AIR CONDITIONING AIR PRESSURE DROP, INCHES WATER COLUMN ANGLE VALVE AUTOMATIC AIR VENT BALL VALVE BACK DRAFT DAMPER BELOW FLOOR BRAKE HORSE POWER BRITISH THERMAL UNITS (PER HOUR) BUTTERFLY VALVE BYPASS TIMER CALIBRATED BALANCE VALVE CEILING CEILING EXHAUST FAN CHECK VALVE CHILLED WATER SUPPLY PIPING CHILLED WATER RETURN PIPING	چ ج	LDB LWB LRA LVR MAD MAV MFR MAX MIN MCC MD (N) OC OA OA OAD OD	LEAVING DRY BULB IN DEGREES FAHRENHEIT LEAVING WET BULB IN DEGREES FAHRENHEIT LOCKED ROTOR AMPERES LOUVER MANUAL AIR DAMPER MANUAL AIR VENT MANUFACTURER MAXIMUM MINIMUM MOTOR CONTROL CENTER MOTORIZED CONTROL DAMPER NEW ON CENTER OUTSIDE AIR OUTSIDE AIR DAMPER	
A A A A BPT KA BPT KA CHWS 	AFF AD , AP AC APD ANV AAV BV BDD BF BHP BTU(H) BFV BPT CBV CLG CEF CKV CLG CEF CKV CHWS CHWR CP CLR	ABOVE FINISHED FLOOR ACCESS DOOR, ACCESS PANEL AIR CONDITIONING AIR PRESSURE DROP, INCHES WATER COLUMN ANGLE VALVE AUTOMATIC AIR VENT BALL VALVE BACK DRAFT DAMPER BELOW FLOOR BRAKE HORSE POWER BRITISH THERMAL UNITS (PER HOUR) BUTTERFLY VALVE BYPASS TIMER CALIBRATED BALANCE VALVE CEILING CEILING EXHAUST FAN CHECK VALVE CHILLED WATER SUPPLY PIPING CHILLED WATER RETURN PIPING	چ ج	LWB LRA LVR MAD MAV MFR MAX MIN MCC MD (N) OC OA OA OAD OD	LEAVING WET BULB IN DEGREES FAHRENHEIT LOCKED ROTOR AMPERES LOUVER MANUAL AIR DAMPER MANUAL AIR VENT MANUFACTURER MAXIMUM MINIMUM MOTOR CONTROL CENTER MOTORIZED CONTROL DAMPER NEW ON CENTER OUTSIDE AIR OUTSIDE AIR DAMPER	
A A A A BPT KA BPT KA CHWS 	AC APD ANV AAV BV BDD BF BHP BTU(H) BFV BPT CBV CLG CEF CKV CLG CEF CKV CHWS CHWR CP CLR	AIR CONDITIONING AIR PRESSURE DROP, INCHES WATER COLUMN ANGLE VALVE AUTOMATIC AIR VENT BALL VALVE BACK DRAFT DAMPER BELOW FLOOR BRAKE HORSE POWER BRITISH THERMAL UNITS (PER HOUR) BUTTERFLY VALVE BYPASS TIMER CALIBRATED BALANCE VALVE CEILING CEILING EXHAUST FAN CHECK VALVE CHILLED WATER SUPPLY PIPING CHILLED WATER RETURN PIPING	چ ج	LVR MAD MAV MFR MAX MIN MCC MD (N) OC OA OA OAD OD	LOUVER MANUAL AIR DAMPER MANUAL AIR VENT MANUFACTURER MAXIMUM MINIMUM MOTOR CONTROL CENTER MOTORIZED CONTROL DAMPER NEW ON CENTER OUTSIDE AIR OUTSIDE AIR DAMPER	
BPT KX CHWS CHWS CHWR CHWR CHWR CHWR	APD ANV AAV BV BDD BF BHP BTU(H) BFV BPT CBV CLG CEF CKV CLG CEF CKV CHWS CHWR CP CLR	AIR PRESSURE DROP, INCHES WATER COLUMN ANGLE VALVE AUTOMATIC AIR VENT BALL VALVE BACK DRAFT DAMPER BELOW FLOOR BRAKE HORSE POWER BRITISH THERMAL UNITS (PER HOUR) BUTTERFLY VALVE BYPASS TIMER CALIBRATED BALANCE VALVE CEILING CEILING EXHAUST FAN CHECK VALVE CHILLED WATER SUPPLY PIPING CHILLED WATER RETURN PIPING	چ ج	MAD MAV MFR MAX MIN MCC MD (N) OC OA OA OAD OD	MANUAL AIR DAMPER MANUAL AIR VENT MANUFACTURER MAXIMUM MINIMUM MOTOR CONTROL CENTER MOTORIZED CONTROL DAMPER NEW ON CENTER OUTSIDE AIR OUTSIDE AIR DAMPER	
BPT KX CHWS CHWS CHWR CHWR CHWR CHWR	AAV BV BDD BF BHP BTU(H) BFV BPT CBV CLG CEF CKV CHWS CHWR CP CLR	ANGLE VALVE AUTOMATIC AIR VENT BALL VALVE BACK DRAFT DAMPER BELOW FLOOR BRAKE HORSE POWER BRITISH THERMAL UNITS (PER HOUR) BUTTERFLY VALVE BYPASS TIMER CALIBRATED BALANCE VALVE CEILING CEILING CEILING EXHAUST FAN CHECK VALVE CHILLED WATER SUPPLY PIPING CHILLED WATER RETURN PIPING	<b>ф</b>	MFR MAX MIN MCC MD (N) OC OA OA OAD OD	MANUFACTURER MAXIMUM MINIMUM MOTOR CONTROL CENTER MOTORIZED CONTROL DAMPER NEW ON CENTER OUTSIDE AIR OUTSIDE AIR DAMPER	
BPT KX CHWS CHWS CHWR CHWR CHWR CHWR	BV BDD BF BHP BTU(H) BFV BPT CBV CLG CEF CKV CHWS CHWR CP CLR	BALL VALVE BACK DRAFT DAMPER BELOW FLOOR BRAKE HORSE POWER BRITISH THERMAL UNITS (PER HOUR) BUTTERFLY VALVE BYPASS TIMER CALIBRATED BALANCE VALVE CEILING CEILING CEILING EXHAUST FAN CHECK VALVE CHILLED WATER SUPPLY PIPING CHILLED WATER RETURN PIPING	<u>т</u>	MAX MIN MCC MD (N) OC OA OA OAD OD	MAXIMUM MINIMUM MOTOR CONTROL CENTER MOTORIZED CONTROL DAMPER NEW ON CENTER OUTSIDE AIR OUTSIDE AIR DAMPER	
BPT KX CHWS CHWS CHWR CHWR CHWR CHWR	BDD BF BHP BTU(H) BFV BPT CBV CLG CEF CKV CHWS CHWR CP CLR	BACK DRAFT DAMPER BELOW FLOOR BRAKE HORSE POWER BRITISH THERMAL UNITS (PER HOUR) BUTTERFLY VALVE BYPASS TIMER CALIBRATED BALANCE VALVE CEILING CEILING CEILING EXHAUST FAN CHECK VALVE CHILLED WATER SUPPLY PIPING CHILLED WATER RETURN PIPING	<u>т</u>	MIN MCC MD (N) OC OA OA OAD OD	MINIMUM MOTOR CONTROL CENTER MOTORIZED CONTROL DAMPER NEW ON CENTER OUTSIDE AIR OUTSIDE AIR DAMPER	
BPT KX CHWS CHWS CHWR CHWR CHWR CHWR	BTU(H) BFV BPT CBV CLG CEF CKV CHWS CHWR CP CLR	BRAKE HORSE POWER BRITISH THERMAL UNITS (PER HOUR) BUTTERFLY VALVE BYPASS TIMER CALIBRATED BALANCE VALVE CEILING CEILING CEILING EXHAUST FAN CHECK VALVE CHILLED WATER SUPPLY PIPING CHILLED WATER RETURN PIPING	<u>М</u> —	MD (N) OC OA OAD OD	MOTORIZED CONTROL DAMPER NEW ON CENTER OUTSIDE AIR OUTSIDE AIR DAMPER	
BPT KX CHWS CHWS CHWR CHWR CHWR CHWR	BTU(H) BFV BPT CBV CLG CEF CKV CHWS CHWR CP CLR	BRITISH THERMAL UNITS (PER HOUR) BUTTERFLY VALVE BYPASS TIMER CALIBRATED BALANCE VALVE CEILING CEILING EXHAUST FAN CHECK VALVE CHILLED WATER SUPPLY PIPING CHILLED WATER RETURN PIPING	т	(N) OC OA OAD OD	NEW ON CENTER OUTSIDE AIR OUTSIDE AIR DAMPER	
BPT KX CHWS CHWS CHWR CHWR CHWR CHWR	BFV BPT CBV CLG CEF CKV CHWS CHWR CP CLR	BUTTERFLY VALVE BYPASS TIMER CALIBRATED BALANCE VALVE CEILING CEILING EXHAUST FAN CHECK VALVE CHILLED WATER SUPPLY PIPING CHILLED WATER RETURN PIPING	T	OC OA OAD OD	OUTSIDE AIR OUTSIDE AIR DAMPER	
  CHWS CHWR          	CBV CLG CEF CKV CHWS CHWR CP CLR	CALIBRATED BALANCE VALVE CEILING CEILING EXHAUST FAN CHECK VALVE CHILLED WATER SUPPLY PIPING CHILLED WATER RETURN PIPING	т	OAD OD	OUTSIDE AIR DAMPER	- I - D
	CLG CEF CKV CHWS CHWR CP CLR	CEILING CEILING EXHAUST FAN CHECK VALVE CHILLED WATER SUPPLY PIPING CHILLED WATER RETURN PIPING	т	OD		
	CKV CHWS CHWR CP CLR	CHECK VALVE CHILLED WATER SUPPLY PIPING CHILLED WATER RETURN PIPING	т	OV		│ ↓
	CHWS CHWR CP CLR	CHILLED WATER SUPPLY PIPING CHILLED WATER RETURN PIPING	<u> </u>		OUTLET VELOCITY	
	CP CLR			ОН	OVERHEAD PETE'S PLUG	
	CLR	CIRCULATING PUMP	— — — — — — — — — — — — — — — — — — —		PIPE ANCHOR	
CD		CLEAR			PIPE DROP PIPE GUIDE	
CD		CONCRETE			PIPE GOIDE PIPE RISE	
00	25	CONCENTRIC REDUCER CONDENSATE DRAIN		500	PITCH DOWN IN DIRECTION OF FLOW	
	CD COND	CONDENSATE DRAIN CONDENSER		POC LBS	POINT OF CONNECTION POUNDS	
-	CONN	CONNECT OR CONNECTION		PSI (G) (A)	POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE)	
	CONT CONTR	CONTINUATION CONTRACTOR	<b>Q</b>	PD	PRESSURE DROP PRESSURE GAUGE	
f	CFM	CUBIC FEET OF AIR FLOW PER MINUTE		PRV	PRESSURE REDUCING VALVE	
-	DPR	DAMPER		PCR	PUMPED CONDENSATE RETURN	
Τ- Ø	DIA	DEGREES FAHRENHEIT DIAMETER . PHASE	RG — RS —	RG		
	DL	DOOR LOUVER	RL	RL	REFRIGERANT LIQUID PIPING	
	DN		- 埃	RV or P&TRV		
	DB	DRY BULB (DEGREES FAHRENHEIT)		RA	RETURN AIR	
	DS	DYNAMIC SENSOR		RAD	RETURN AIR DAMPER	
	EP	ELECTRICAL PANEL		RPM	RUNNING LOAD AMPERES	
	EL	ELEVATION		SM	SHEET METAL	
	EW	ENTERING WATER	ů	SQFT, FT2	SQUARE FEET	
	EWT	ENTERING WATER TEMPERATURE		SQIN, IN2	SQUARE INCHES	
	EVAP	EVAPORATOR		SPD	STATIC PRESSURE DROP	
	EA	EXHAUST AIR		STR	STRAINER	
	EAD EF			SA SF		
	(E), EXIST	EXISTING		TCP	TEMPERATURE CONTROL PANEL	
— <del>× × </del>				TCV		
	(E)	EXISTING TO BE CAPPED	Ι Ι Ψ		THERMOMETER	
	ESP	EXTERNAL STATIC PRESSURE		T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED	
	FPM FIN	FIELT PER MINUTE FINISH		ТА	TO ABOVE	
	FD	FIRE DAMPER		ТВ	TO BELOW	
		FIRE/SMOKE DAMPER FLEXIBLE CONNECTION				
	FLR	FLOOR		TYP	TYPICAL	
	ELV	FLOW IN DIRECTION OF ARROW		UG		
	FLV FA	FLOW LIMITING VALVE FROM ABOVE		UCD UON	UNLESS OTHERWISE NOTED	↓
	FB	FROM BELOW			UNION	
ı <b>∮</b>		FULL LOAD AMPS GAGE COCK	μ χ	VLV		
	GPH	GALLONS PER HOUR	│		VALVE IN VALVE BOX	
<u>&gt;</u>	GPM GV	GALLONS PER MINUTE		WPD W	WATER PRESSURE DROP	
	GV GLV	GATE VALVE GLOBE VALVE		w wt	WEIGHT	
	GALV	GALVANIZED		WB	WET BULB	∦
— ннws —	GA HHWS		&	WMS		
HHWR	HHWR	HEATING HOT WATER RETURN PIPING	₩		3-WAY CONTROL VALVE	_ I – ₽
						1 1
				1		
		f       CFM         T       DPR         ∅       DIA         DL       DN         DR       DB         DS       DS         EP       EL         ENT       EDB         EW       EWT         EVAP       EA         EA       EAD         EF       (E)         (E), EXIST       (E)         (E)       ESP         FPM       FIN         FD       FS         FC       FS         FR       FD         FS       FC         FPM       FIN         FD       FS         FC       FLV         FA       FB         FL       GCK         GPH       GPH         GLV       GALV         GA       HHWS	f     CFM     CUBIC FEET OF AIR FLOW PER MINUTE       DPR     DAMPER       DPR     DEGREES FAHRENHEIT       Ø     DIA     DIAMETER, PHASE       DL     DOOR LOUVER       DN     DOW       DR     DRAIN       DR     DRAIN       DB     DRY BULB (DEGREES FAHRENHEIT)       EP     ELEVATOR       ENT     ENT       ENT     ENT       ENT     ENT       EW     ENTERING WATER       EWT     ENTERING WATER TEMPERATURE       EWT     ENTERING WATER TEMPERATURE       EWALST FAN     (E)       EVAP     EVAPART FAN       (E)     EXISTING TO BE CABANDONED <t< td=""><td>f     GFM     CUBIC FEET OF AIR FLOW PER MINUTE     Image: Cubic FEET of AIR FLOW PER MINUTE       T     DPR     DAMPER       T     DIA     DIAATER, PHASE       DIA     DIAMETER, PHASE       DN     DOWN       DN     DOWN       DR     DRAIN       BR     DRECORRER       EV     ENTERING WIEL       EW     ENTERING WIET BULB       EW     ENTERING WIET BULB       EW     ENTERING WIET BULB       EVAP     EVAPORATOR       EVAP     EVAPORATOR       EV     ENTERING WIET BULB       EV</td><td>f     OTM     OUBLETED OF AIR FLOW PER MINUTE     PP0       DAMPER     DAMPER     PPASE     POR       *     DIA     DAMPER     PRASE       0     DA     DORN     RG       0     DORN     RG     RG       0     ECONTRIC REDUCER     RG       0     EVITERNO WATER     RG</td><td>r     Order     Output CET OF AR TOUR PER MANUE     Processure rescuences value       r     DR     Output CET OF AR TOUR PER MANUE     Processure rescuences value       r     DR     DAMETER, FINALE     PR       DL     DORTOR FINALE     PR       DL     DORTOR FINALE     PR       DL     DORTOR FINALE     PR       DR     DR     DR       DR     DORTOR FINALE     PR       DR     DR     DR       DR     DR</td></t<>	f     GFM     CUBIC FEET OF AIR FLOW PER MINUTE     Image: Cubic FEET of AIR FLOW PER MINUTE       T     DPR     DAMPER       T     DIA     DIAATER, PHASE       DIA     DIAMETER, PHASE       DN     DOWN       DN     DOWN       DR     DRAIN       BR     DRECORRER       EV     ENTERING WIEL       EW     ENTERING WIET BULB       EW     ENTERING WIET BULB       EW     ENTERING WIET BULB       EVAP     EVAPORATOR       EVAP     EVAPORATOR       EV     ENTERING WIET BULB       EV	f     OTM     OUBLETED OF AIR FLOW PER MINUTE     PP0       DAMPER     DAMPER     PPASE     POR       *     DIA     DAMPER     PRASE       0     DA     DORN     RG       0     DORN     RG     RG       0     ECONTRIC REDUCER     RG       0     EVITERNO WATER     RG	r     Order     Output CET OF AR TOUR PER MANUE     Processure rescuences value       r     DR     Output CET OF AR TOUR PER MANUE     Processure rescuences value       r     DR     DAMETER, FINALE     PR       DL     DORTOR FINALE     PR       DL     DORTOR FINALE     PR       DL     DORTOR FINALE     PR       DR     DR     DR       DR     DORTOR FINALE     PR       DR     DR     DR       DR     DR

	MECHAN
1.	ALL WORK SHALL COMPLY AND INDUSTRY STANDARDS.
2.	VERIFY EXACT LOCATION OF GRILLES. NOTIFY ARCHITEC DRAWINGS.
3.	COORDINATE EXACT LOCATION WALLS WITH ARCHITECTURA
4.	COORDINATE EXACT SIZE AI AND EQUIPMENT PRIOR TO
5.	SEE ARCHITECTURAL REFLEC DIFFUSERS, REGISTERS AND
6.	FURNISH AND INSTALL MAN SUPPLY DUFFUSER.
7.	FLEXIBLE DUCTWORK CONNE
8.	ALL DUCTWORK, CEILING DIF U.O.N. (SHOWN HEAVY). (
9.	(E) DUCTWORK AND ITEMS COORDINATE CLOSELY WITH ETC. TO REMAIN.
10	. WHERE INLET DUCT DIAMETE CONTRACTOR SHALL OVERS CONNECTION.
11.	. THERMOSTAT TO BE INSTAL INSTALL THERMOSTAT OVER

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# NICAL GENERAL NOTES

WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES

OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND ECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND

TION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND AL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.

AND ROUTING OF DUCTWORK WITH ARCHITECTURAL PLANS, STRUCTURE COMMENCING WORK. ECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING

ID GRILLES. NUAL AIR DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE

NECTIONS TO CEILING DIFFUSERS ARE LIMITED TO 5' MAXIMUM LENGTH. DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.

TO BE REMOVED ARE SHOWN CROSSED ("X") OUT, SEE LEGEND, I (N) DUCTWORK AND P.O.C.'S SHOWN. ALL OTHER (E) DUCTWORK,

ETER AND DIFFUSER NECK SIZE ARE THE SAME (I.E. 9"Ø & 9×9) RSIZE THE SHEET METAL PLENUM TO ACCOMODATE THE ROUND DUCT

ALLED AT 46" ABOVE FINISHED FLOOR (TOP OF THERMOSTAT), DO NOT TR CASEWORK OR SHELVING OVER 24" IN DEPTH & 34" IN HEIGHT.

# PIPING, DUCTWORK & ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

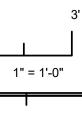
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON PREAPPROVED INSTALLATION GUIDE (E.G., SMACNA OR OSHPD OPM FOR 2013 CBC OR LATER). COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E): MP MD PP E D OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES

AND DETAILS

MPX MDX PP  $\Box$  E  $\Box$  OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) #0043-13.



3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

# MEP COMPONENT ANCHORAGE NOTE

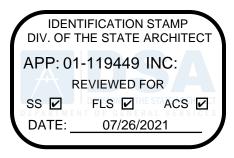
ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7–16 CHAPTER 13, 26 AND 30.

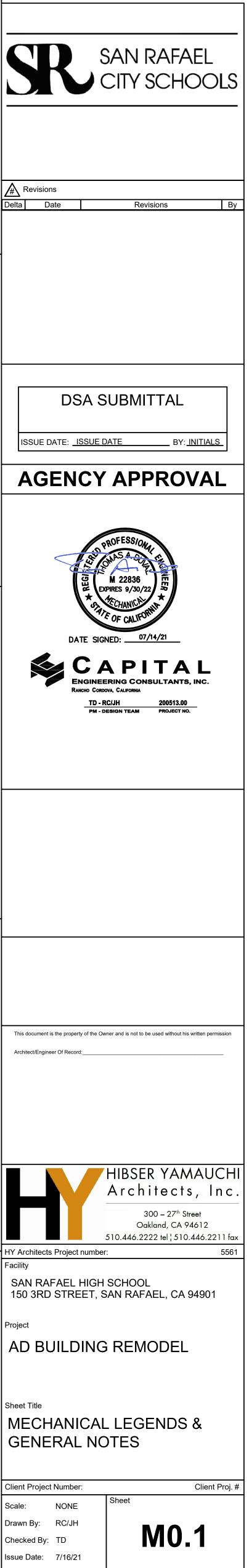
- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTIACLES HAVING FLEXIBLE CABLE.
- 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENETS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.





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0 5'	50'
GRAPHIC SCALES:	1/16" = 1'-0"

QC INI %

25'

1/8" = 1'-0"

	"SAMSUNG"			ELECT	RICAL D	ATA	OPER.		
UNIT	MODEL NO. (INDOOR UNIT)	LOCATION	HP UNIT SERVED	VOLT/PH	МСА	МОР	WT. (LBS.)	MOUNTING DETAIL	NOTES
AD1	MCU-S6NEK2N	CLASSROOM 2 145	HRU AD1	208V/1ø	2.0	15.0	65	3 M5.1	1
SB 02	MCU-S6NEK2N	CLASSROOM 4 140	HRU AD2	208V/1ø	2.0	15.0	65	3 M5.1	1

۵	DIFFUSER,	REGIST	'ER & (	GRILLE	SCHED	ULE
SYMBOL	DESCRIPTION	KRUEGER	METALAIRE	NAILOR	TITUS	TUTTLE & BAILEY
CD	MODULAR CORE SURFACE MOUNT CEILING DIFFUSER BEVEL FRAME 3/4" DROP	1240 FRAME 21 - 1-1/4"	9000–2	7500–S	MCD BORDER TYPE 6	SQD-SB
CDL	MODULAR CORE LAY-IN CEILING DIFFUSER FOR T-BAR CEILING 24x24 PANEL	1240 FRAME 23	9000–6P	7500–L	MCD BORDER TYPE 3	SQD-LT
CR/CT	CEILING RETURN/TRANSFER WITH 1/2" EGG CRATE CORE SURFACE MOUNT	EGC-5	CC5D	61 EC—S	MODEL 50 F BORDER TYPE 1	CRE500-SF
CRL/CTL	CEILING RETURN/TRANSFER WITH 1/2" EGG CRATE CORE IN 24x24 PANEL FOR T-BAR CEILING	EGC-5TB	CC5D-TBD	61 EC-L	MODEL 50 F BORDER TYPE 3	CRE500-LT
<b>R/E/T*</b> ✓ ⋌	RETURN/EXHAUST/TRANSFER GRILLE WITH 35° OR 45° HORIZONTAL BARS.	S 80 H	SRH	7145 H	350 RL	T70D
NOTES: 1	. ALL SYMBOLS NOTED MAY NO REFER TO PLANS FOR SIZE A			Ordinate Diffuser t Lected Ceiling Plan		
2	2. ALL SUPPLY AIR DIFFUSERS / UNLESS SHOWN OTHERWISE.	ARE 4 WAY BLOW	REC	POSED BLADE DAMPER QUIRED AT DIFFUSERS, LLES.		
	<ul> <li>5. FURNISH ALL PRODUCTS OF A MANUFACTURER.</li> <li>ALUMINUM REGISTERS</li> <li>FOR SHOWERS AND DAMP AREAS</li> </ul>	A SINGLE	6. PRO BR/	LLES. DVIDE MANUAL AIR DA ANCH DUCT TO A SIN DISTER OR GRILLE.		

3/4	4" = 1'-0"			1" = 1'-0"					1 1/2" = 1'-0"		3" = 1'-0"				
					F	AN C	COIL	U	NIT	SCHED	ULE				
		"SAMSUNG"		RATED COOLING	RATED HEATING	EL		DATA				0050			
UNIT	LOCATION	MODEL NO. (INDOOR UNIT)	CFM	CAPACITY (MBH)	CAPACITY (MBH)	VOLT/PH	FAN MOTOR	МСА	MOP (AMPS)	CONNECTED TO OUTDOOR	CONNECTED TO Branch	OPER. WT.	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
FC 139A	CLASSROOM 5 139	AM018NN4DCH/AA	550	18.0	20.0	208V/1Ph	1	0.70	15	HRU AD2	AD2	45	2 M5.1	2 M6.1	1, 2, 3, 4, 5
FC 139B	CLASSROOM 5 139	AM018NN4DCH/AA	550	18.0	20.0	208V/1Ph	1	0.70	15	HRU AD2	BSB AD2	45	2 M5.1	2 M6.1	1, 2, 3, 4, 5
FC 140A	CLASSROOM 4 140	AM018NN4DCH/AA	550	18.0	20.0	208V/1Ph	1	0.70	15	HRU AD2	BSB AD2	45	2 M5.1	2 M6.1	1, 2, 3, 4, 5
FC 140B	CLASSROOM 4 140	AM018NN4DCH/AA	550	18.0	20.0	208V/1Ph	1	0.70	15	HRU AD2	BSB AD2	45	2 M5.1	2 M6.1	1, 2, 3, 4, 5
FC 141	BREAKOUT / LEARNING SPACE 141	AM007NNNDCH/AA	320	7.5	8.7	208V/1Ph	1	0.24	15	HRU AD2	BSB AD2	35	2 M5.1	2 M6.1	1, 2, 3, 4
FC 142	BREAKOUT / LEARNING SPACE 142	AM007NNNDCH/AA	320	7.5	8.7	208V/1Ph	1	0.24	15	HRU AD2	BSB AD2	35	2 M5.1	2 M6.1	1, 2, 3, 4
FC 144A	CLASSROOM 1 144	AM018NN4DCH/AA	550	18.0	20.0	208V/1Ph	1	0.70	15	HRU AD1	BSB AD1	45	2 M5.1	2 M6.1	1, 2, 3, 4, 5
FC 144B	CLASSROOM 1 144	AM018NN4DCH/AA	550	18.0	20.0	208V/1Ph	1	0.70	15	HRU AD1	BSB AD1	45	2 M5.1	2 M6.1	1, 2, 3, 4, 5
FC 145A	CLASSROOM 2 145	AM018NN4DCH/AA	550	18.0	20.0	208V/1Ph	1	0.70	15	HRU AD1	BSB AD1	45	2 M5.1	2 M6.1	1, 2, 3, 4, 5
FC 145B	CLASSROOM 2 145	AM018NN4DCH/AA	550	18.0	20.0	208V/1Ph	1	0.70	15	HRU AD1	AD1	45	2 M5.1	2 M6.1	1, 2, 3, 4, 5
FC 146A	CLASSROOM 3 146	AM018NN4DCH/AA	550	18.0	20.0	208V/1Ph	1	0.70	15	HRU AD1	BSB AD1	45	2 M5.1	2 M6.1	1, 2, 3, 4, 5
FC 146B	CLASSROOM 3 146	AM018NN4DCH/AA	550	18.0	20.0	208V/1Ph	1	0.70	15	HRU AD1	BSB AD1	45	2 M5.1	2 M6.1	1, 2, 3, 4, 5
NOTES		WITH HARD-WRED					500	-	-		EIGHT INCLUDES ALL		ORIES.		

2. REFER TO MECHANICAL PIPING & WIRING DIAGRAMS DWGS M6.3 AND M6.4 FOR

REFRIGERANT PIPING SIZES.

3. OUTSIDE AIR SUPPLY PROVIDED TO SPACE BY SEPARATE DOAS SYSTEM AS SHOWN ON PLANS.

		DEDICATED OUTSIDE AIR SYSTEM SCHEDULE         SUPPLY FAN       RELIEF FAN																									
				SUPPL	Y FAN			R	ELIEF FA	N					DX C	OIL					ELEC			MAX.			
UNIT	LOCATION SERVED	"DAIRTECH" MODEL	"GREENHECK"		ESP	TSP		"GREENHECK"		ESP	TSP		coc	LING		HE	ATING		CONNECTED TO HEAT PUMP		9E	DE		OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
	SERVED	MODEL	MODEL	CFM	(IN. W.G.)	(IN. W.G.)	HP	MODEL	CFM	(IN. W.G.)	(IN. W.G.)	HP	CAP. (MBH)	EAT F DB	LAT F DB	САР. (МВН)	EAT F DB	LAT F DB		VOLT/PH	FLA	FLA	МСА	(LBS.)	DETAIL		
DOAS AD1	CLASSROOMS 144-146	CUSTOM	SQ-160HP-VG	1390	1.0	1.75	1.0	USF-13-B3	1390	1.0	1.25	0.75	60.0	95.0	75.0	66.0	30.0	70.0	HP AD1	208/1	4.9	4.9	15	1100	6 M5.2	1 M6.2	1, 2, 3, 4, 5, 6
DOAS AD2	CLASSROOMS 139-141	CUSTOM	SQ-160HP-VG	1390	1.0	1.75	1.0	USF-13-B3	1390	1.0	1.25	0.75	60.0	95.0	75.0	66.0	30.0	70.0	HP AD2	208/1	4.9	4.9	15	1100	6 M5.2	1 M6.2	1, 2, 3, 4, 5, 6

NOTES:

1. CONTRACTOR SHALL FIELD MEASURE EACH EXISTING ROOFTOP CURB AND SIZE/DIMENSION EACH CUSTOM DOAS UNIT TO FIT THE EXISTING CURB AND DUCT CONNECTIONS.

2. PROVIDE NEMA 3R DISCONNECT SWITCH FOR SINGLE POINT POWER CONNECTION.

3. PROVIDE (1) 24"X24"X2" MERV-13 FILTER WITH MAGNEHELIC GAUGE.

4.	PROVIDE	OUTSIDE	AIR	DAMPER	WTH	ACTUATOR	AND	RAIN HOOD.	

	HEAT PUMP UNIT SCHEDULE													
		"SAMSUNG" MODEL	PHYSICAL DIMENSIONS	COOL	HEAT	ELEC	TRICAL D	ATA	HP WT.	CURB WT.	TOTAL WT.	MOUNTING	CONTROL	NOTES
UNIT	LOCATION	NO.	HxWxD (in.)	(BTUH)	(BTUH)	VOLT/PH	МСА	МОСР	(LBS.)	(LBS.)	(LBS.)	DETAIL	DIAGRAM	NOTES
HP AD1	ADMIN ROOF	AM060MXMDCHAA	56x37x13	60,000	66,000	208V/1ø	32	50	280	N/A	280	9 M5.2	3 M6.1	1, 2, 3, 4, 5
HP AD2	ADMIN ROOF	AM060MXMDCHAA	56x37x13	60,000	66,000	208V/1ø	32	50	280	N/A	280	9 M5.2	3 M6.1	1, 2, 3, 4, 5

NOTES:

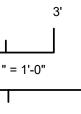
1. R410 REFRIGERANT.

2. COOLING CAPACITY RATED AT 80°F DB / 67°F WB INDOOR AIR AND 95°F DB / 75°F OUTDOOR AIR. 3. HEATING CAPACITY IS RATED AT 70°F DB / 60°F WB INDOOR AIR AND 47°F DB & 43°F WB OUTDOOR AIR.

					HEA <sup>-</sup>	<b>F</b> RE	CO	VER	ΥU	NIT	SC	HEDU	LE	
UNIT	LOCATION	"SAMSUNG" MODEL NO.	PHYSICAL DIMENSIONS HxWxD (in.)	COOL (BTUH)	HEAT (BTUH)	ELEC <sup>.</sup> VOLT/PH	TRICAL D	АТА МОСР	HRU WT. (LBS.)	CURB WT. (LBS.)	TOTAL WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
HRU AD1	ADMIN ROOF	AM120FXVAFR2AA	67x51x31	114,000	129,000	208V/3ø	43.0	50	635	640	1,275	1 M5.1	2 M6.1	1, 2, 3, 4
HRU AD2	ADMIN ROOF	AM96FXVAFR2AA	67x51x31	92,000	103,000	208V/3ø	37.8	50	635	640	1,275	1 M5.1	2 M6.1	1, 2, 3, 4

NOTES: 1. R410 REFRIGERANT.

2. COOLING CAPACITY RATED AT 80°F DB / 67°F WB INDOOR AIR AND 95°F DB / 75°F OUTDOOR AIR.



IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

5. PROVIDE WITH MFR'S MERV-13 FILTER.

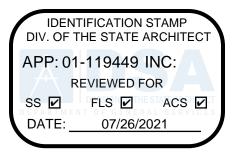
5. PROVIDE ECM MOTORS WITH SPEED DIAL MOUNTED ON THE MOTORS. 6. PROVIDE INTEGRAL DRAIN PAN.

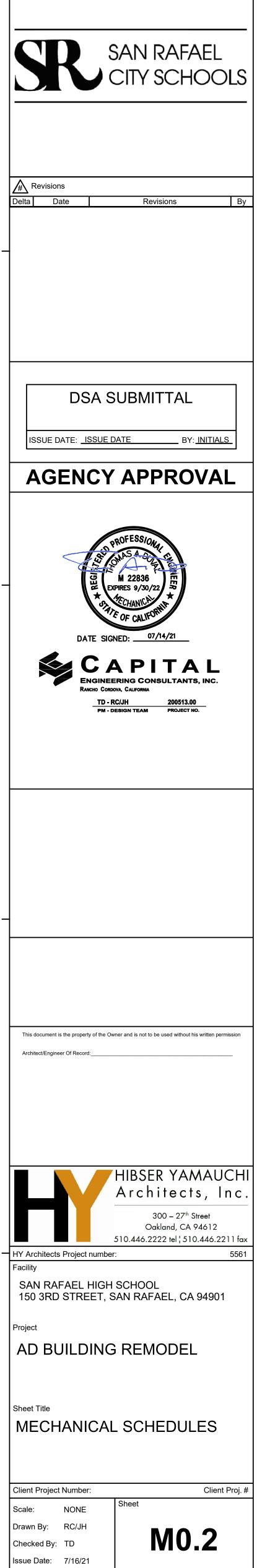
> 4. REFER TO PIPING AND WIRING DIAGRAMS M6.3 AND M6.4 FOR REFRIGERANT PIPING SIZES. 5. REFER TO STRUCTURAL DRAWINGS FOR MOUNTING DETAILS

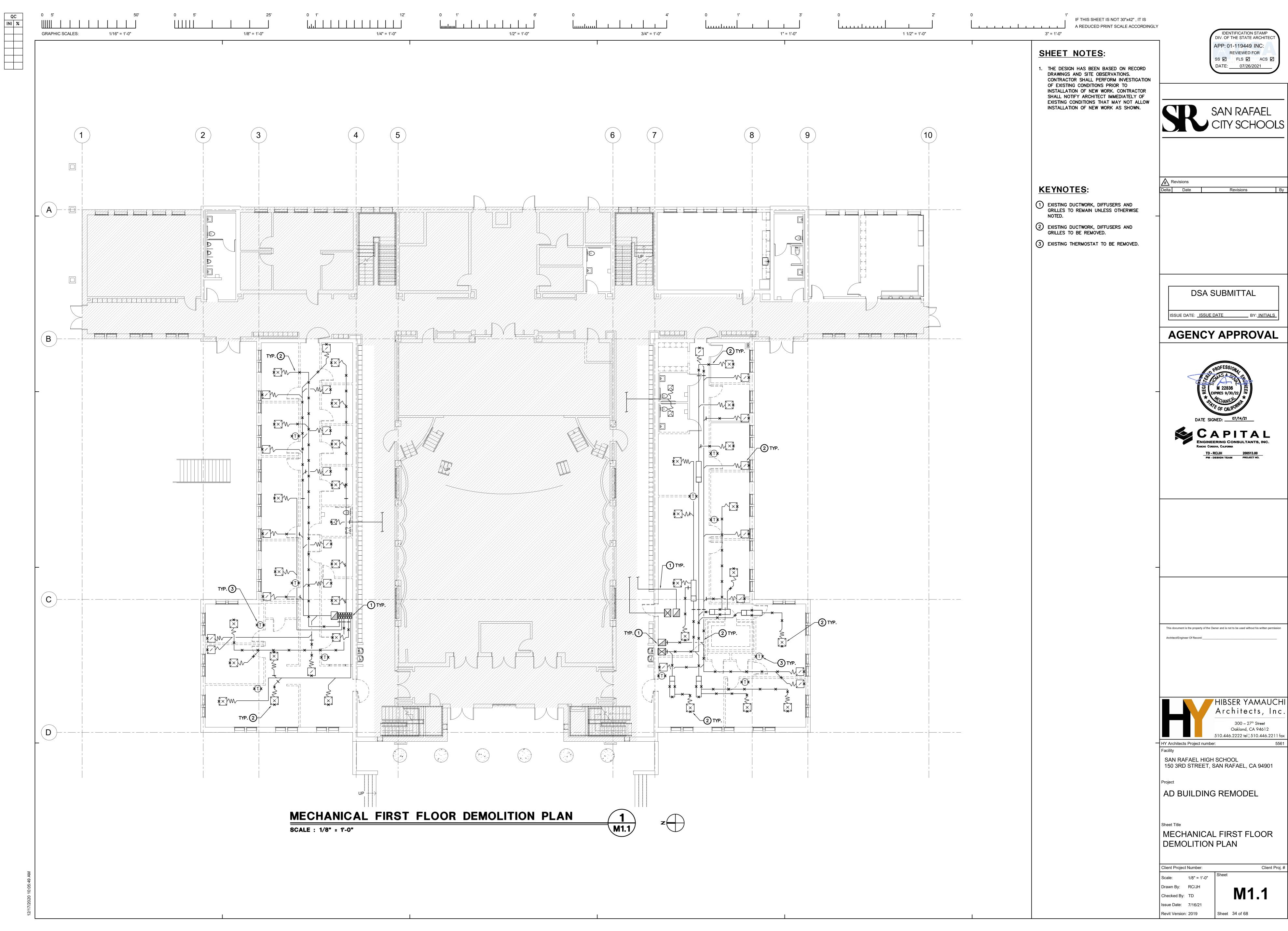
> > 3. HEATING CAPACITY IS RATED AT 70°F DB / 60°F WB INDOOR AIR AND 47°F DB & 43°F WB OUTDOOR AIR. 4. REFER TO PIPING AND WIRING DIAGRAMS M6.3 AND M6.4 FOR REFRIGERANT PIPING SIZES.

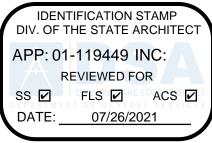
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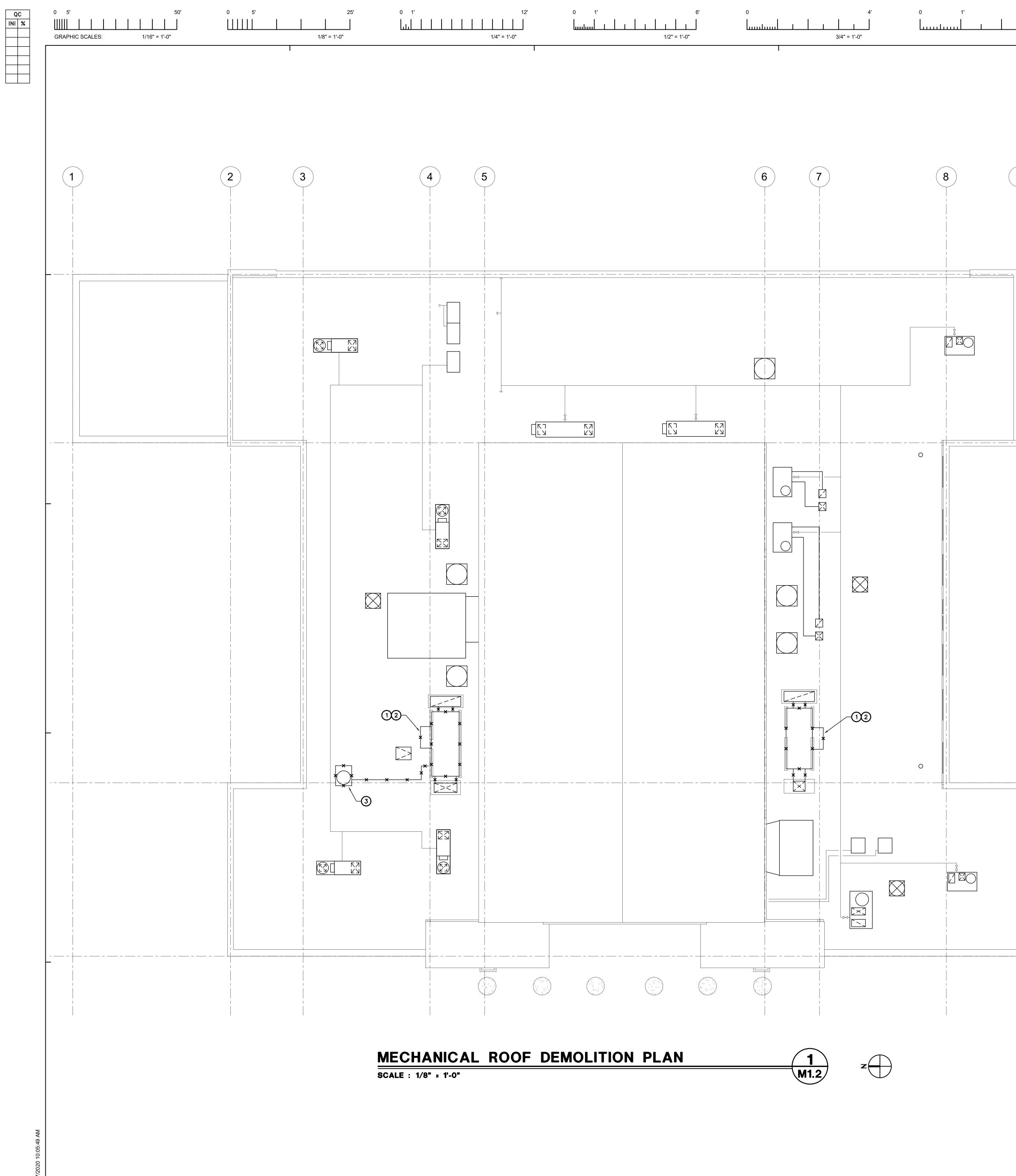
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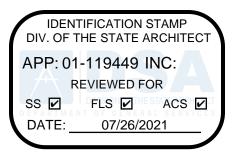


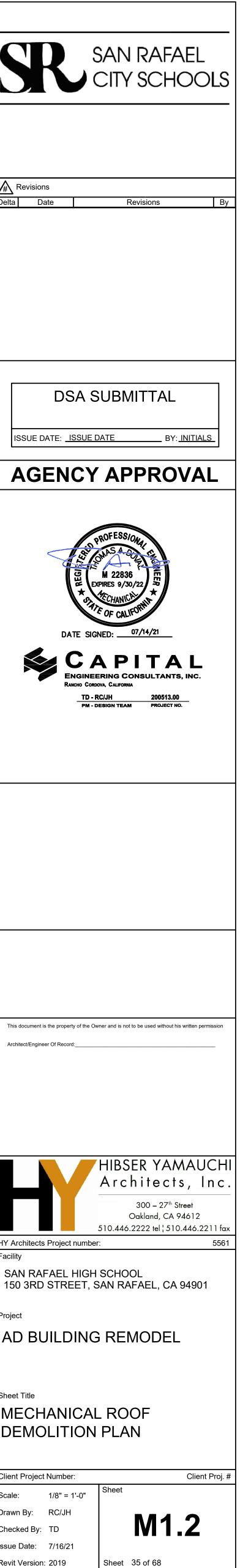


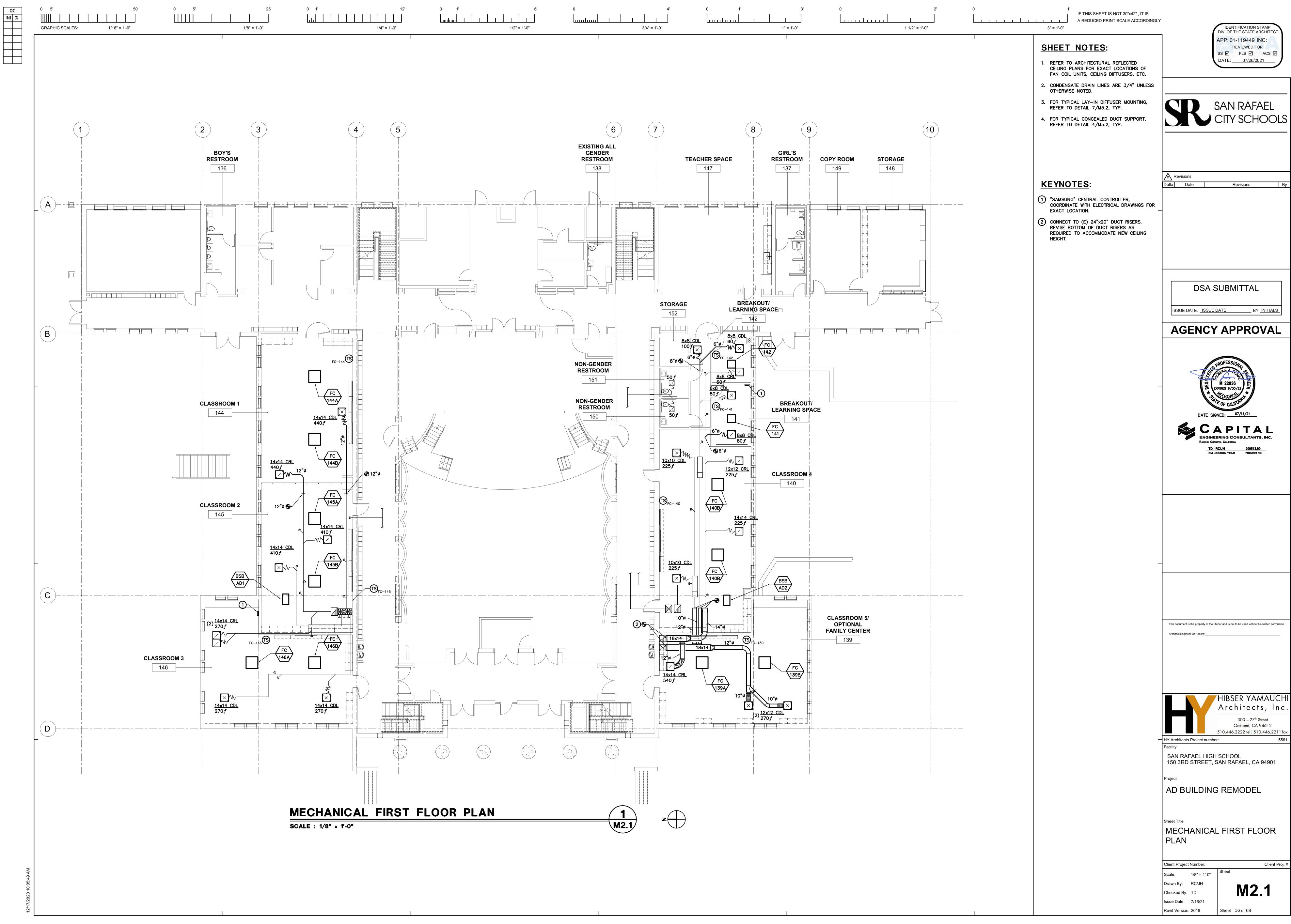


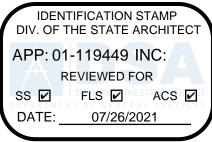
OOF	DEMOLITION	PLAN		
			<u> </u>	

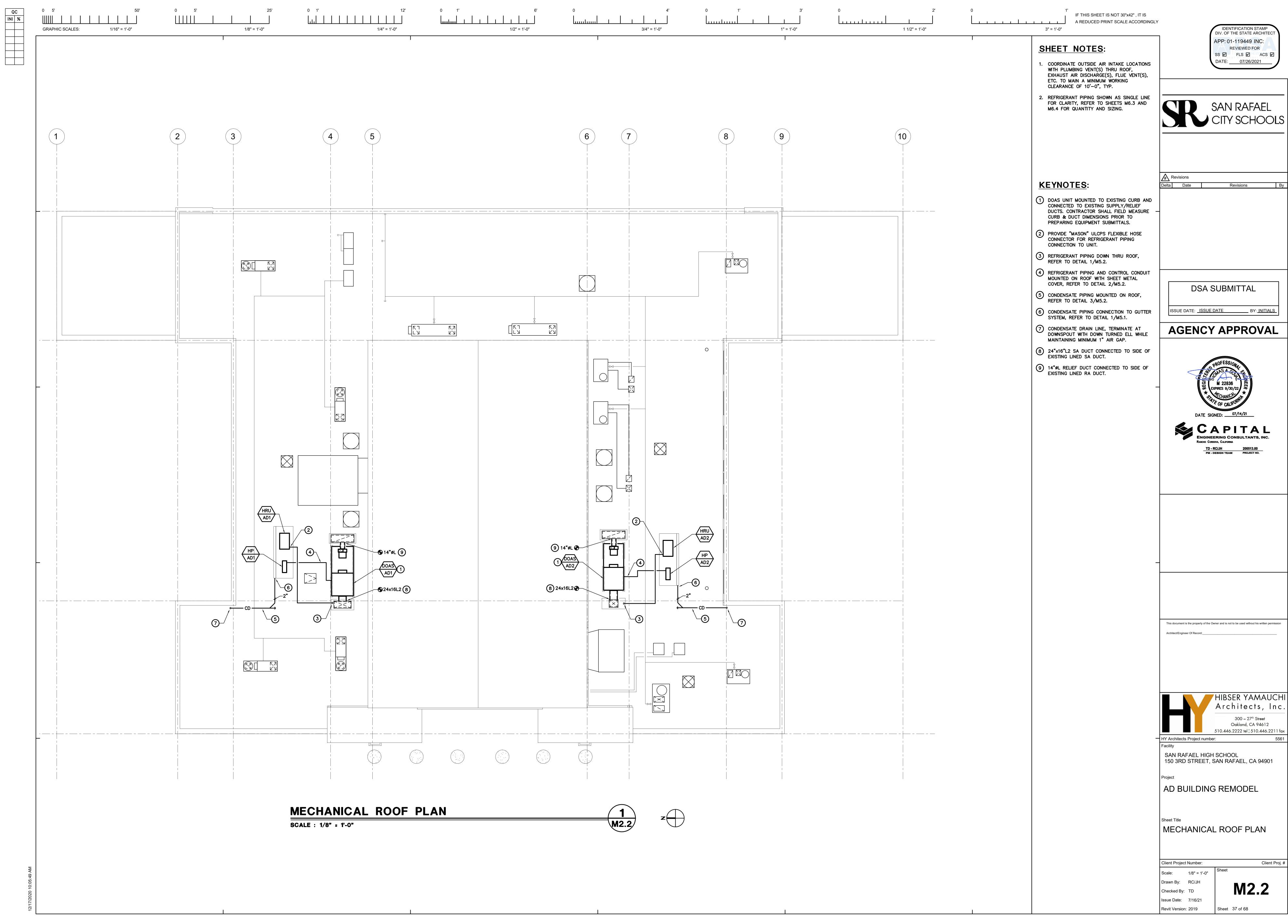
3' 	0   1 1/2" = 1'	2' 0 1' IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT SCALE ACCORDINGLY 3" = 1'-0"
9	10	SHEET NOTES: 1. THE DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.
		<ul> <li>KEYNOTES:</li> <li></li></ul>
		HY A Facili SA 15 Proje
		AI Shee MI DE Clien Scale Draw Chec Issue Revit

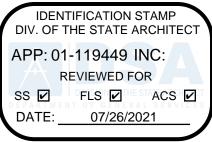


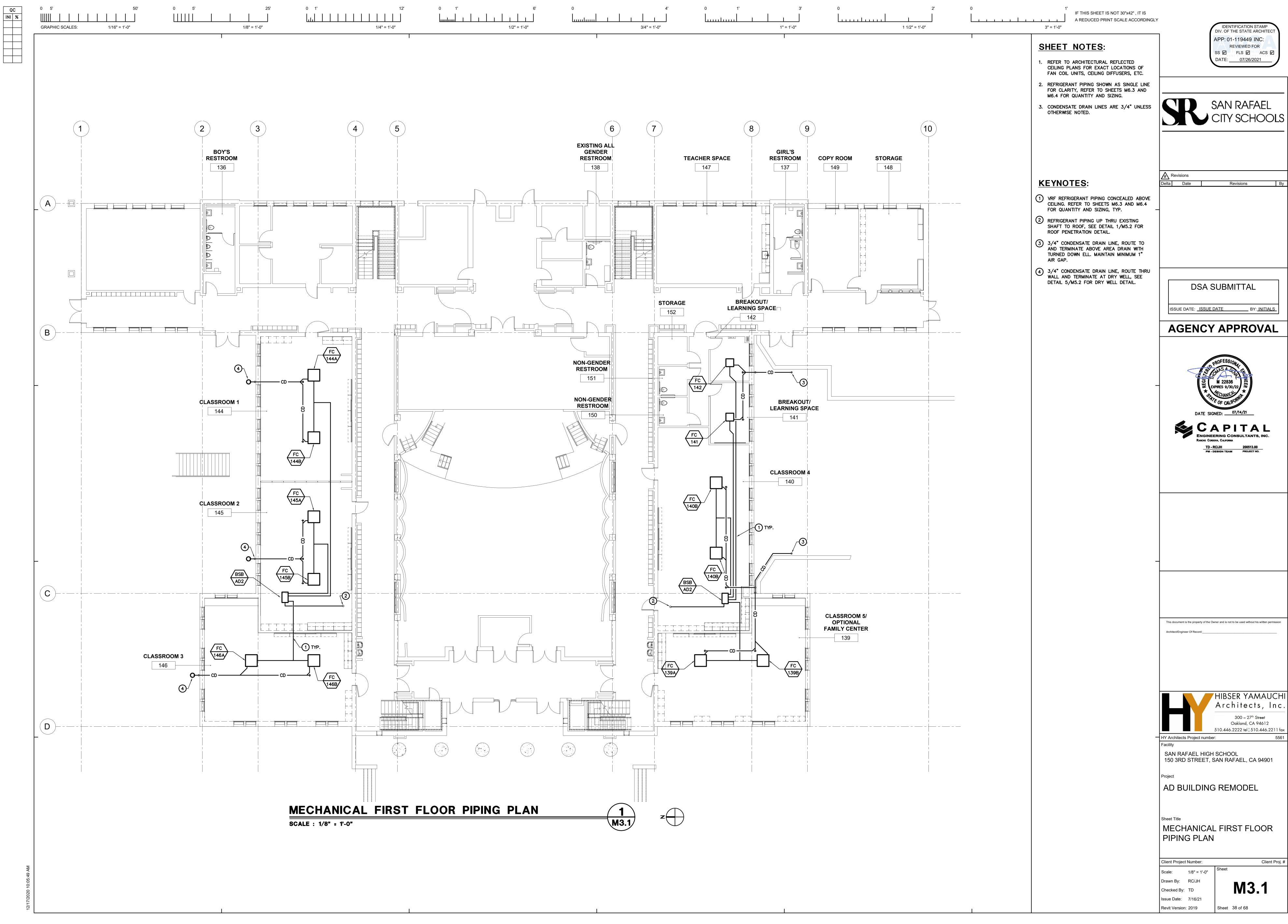


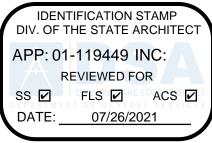








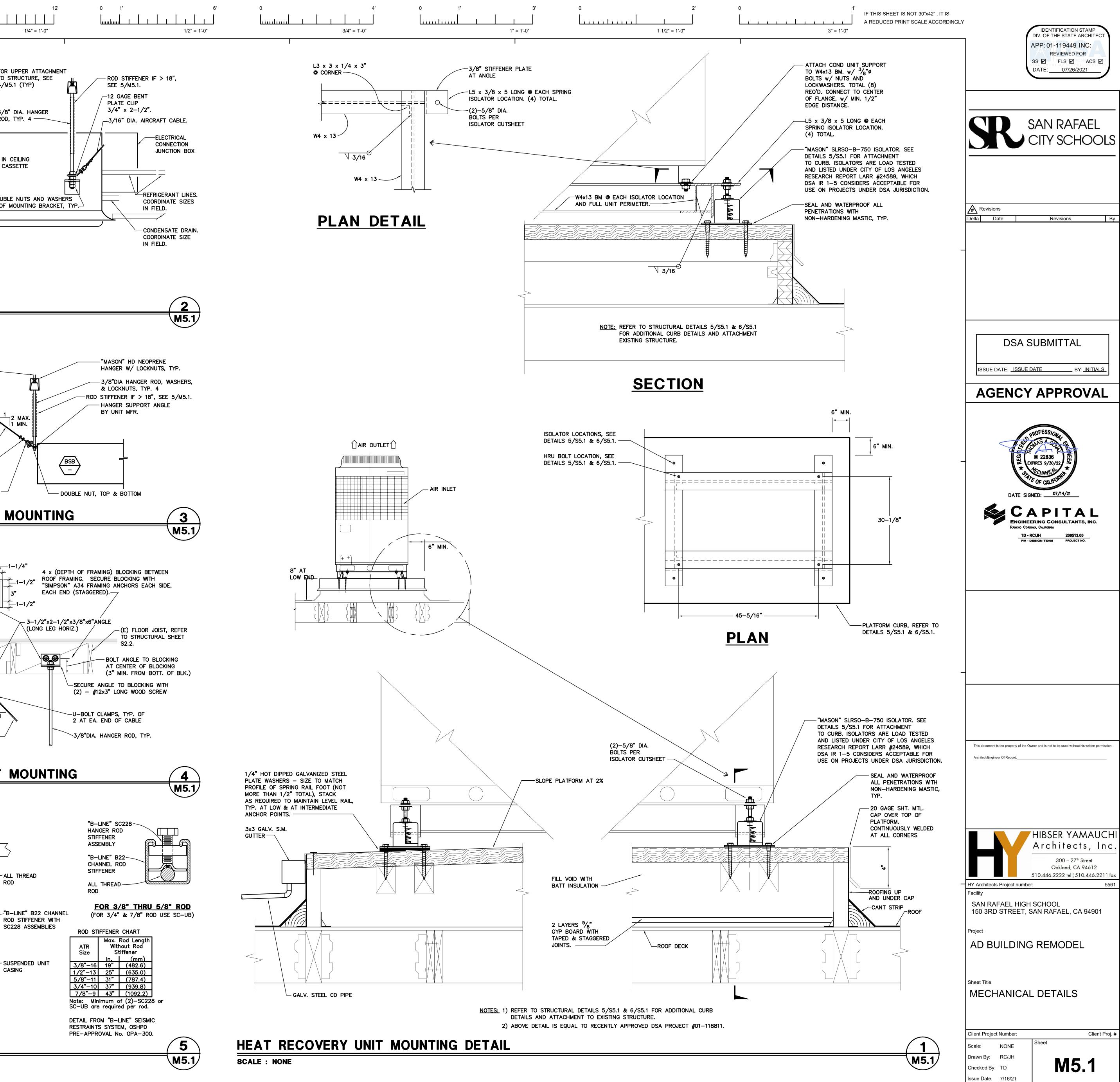


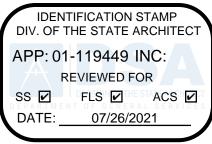


QC INI %	0 5' 50' GRAPHIC SCALES: 1/16" = 1'-0"	0 5'	25' 0 1' 1/8" = 1'-0" 1/4" = 1'-0
			"MASON" HD NEOPRENE NEOPRENE HANGER W/ LOCKNUTS, TYP. SECURE 3/8" DIA. PIN SHACKLE TO CLIP (2) U-BOLT CLIPS
			LOOP CABLE OVER WIRE ROPE THIMBLE. UNIT MOUNTING BRACKETS, TYP. 4 PROVIDE DOUBLE NUTS AND
			CEILING EACH SIDE OF MOUNTING BR UNIT CASING HANGER ROD, TYP CABLES, TYP PLAN VIEW
			CLG. MTD. FAN COIL scale : none
			FOR UPPER ATTACHMENT DETAILS, REFER TO 4/M5.1. EQUIP CASING ANGLE MOUNTING BRACKETS 1 MIN.
			3/16"DIA AIRCRAFT CABLE SWAY BRACE (LOCATE AT 45" IN PLAN VIEW), (1) BRACE AT EACH CORNER (TOTAL 4) U-BOLT CLIPS LOOP ON CABLE OVER WIRE ROPE THIMBLE, SECURE 1/2"DIA PIN SHACKLE TO CLIP
			BRANCH SELECTOR MOUN SCALE : NONE
			SECURE INTO CENTER OF BLOCKING WITH (2) - #12x3" LONG WOOD SCREW
			TYPICAL OF 4 ANGLES. 3/8"(min.)ROUND PIN CHAIN SHACKLE W/3/8"DIA. PIN. HEAVY WIRE ROPE THIMBLES. 3/16"DIA. AIRCRAFT CABLE SWAY BRACE AT 45', (1) BRACE AT EACH CORNER. (TOTAL 4)
			UPPER ATTACHMENT MOUN Scale : None
			MAX. DISTANCE FROM TOP OF HANGER ROD TO FIRST BOLT OF CHANNEL ROD STIFFENER IS 6"

MAX. DISTANCE-FROM TOP OF HANGER OR TRAPEZE TO THE - SUSPENDED UNIT FIRST BOLT OF CASING CHANNEL ROD STIFFENER IS 6"

**ROD STIFFENER** SCALE : NONE



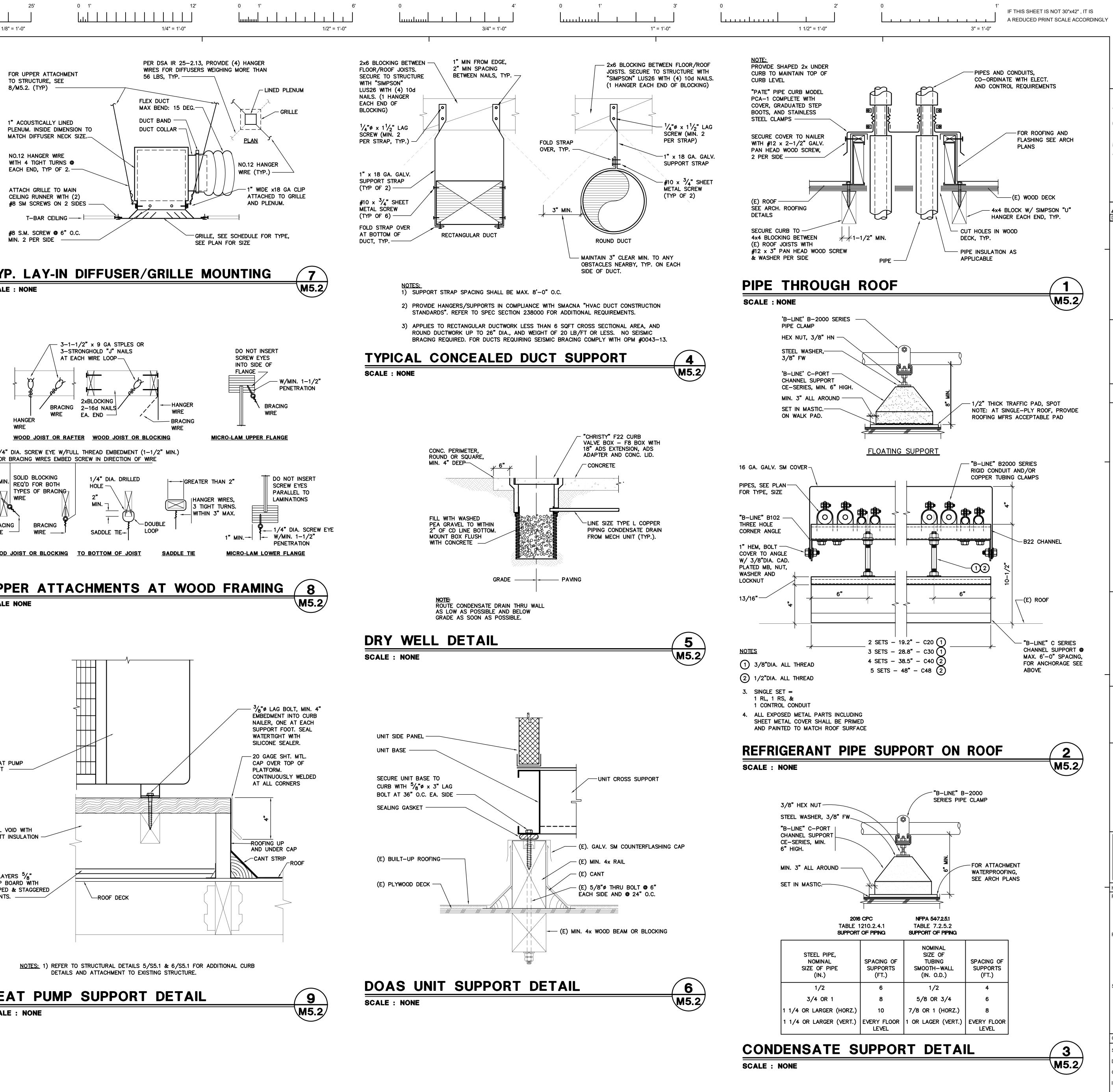


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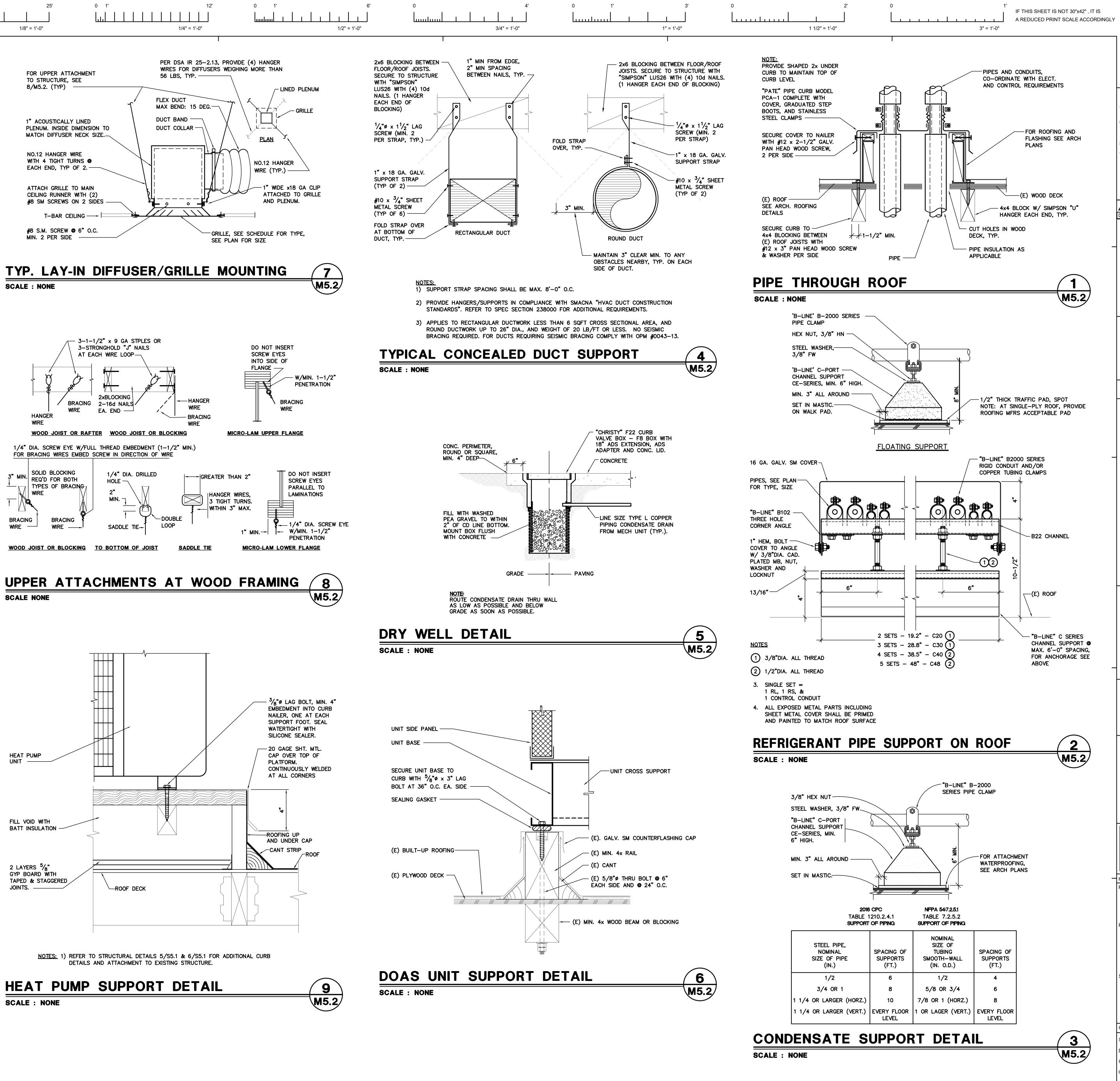
Revit Version: 2019

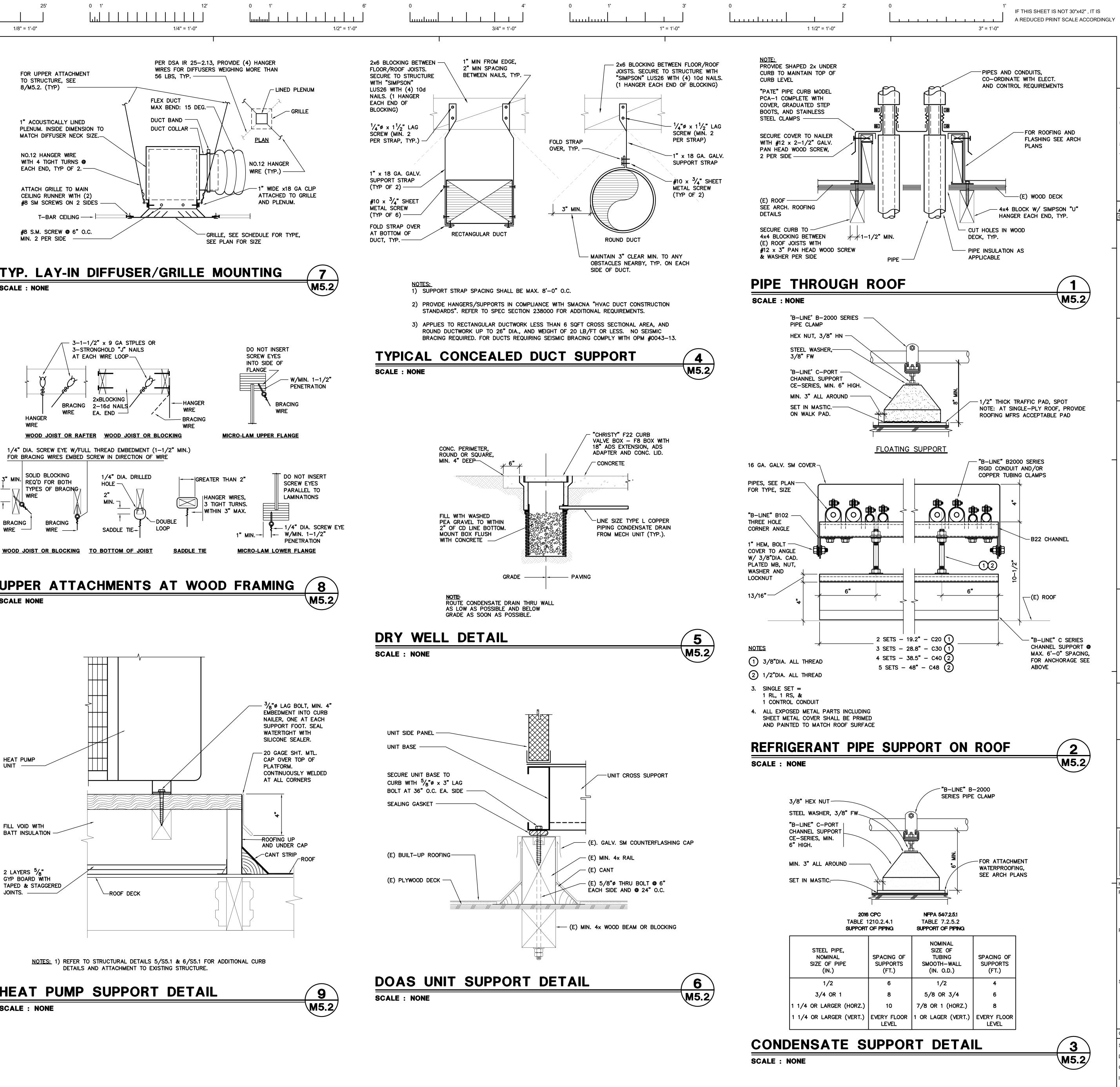
QC

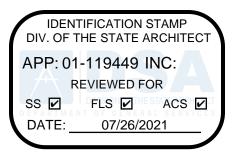
INI %

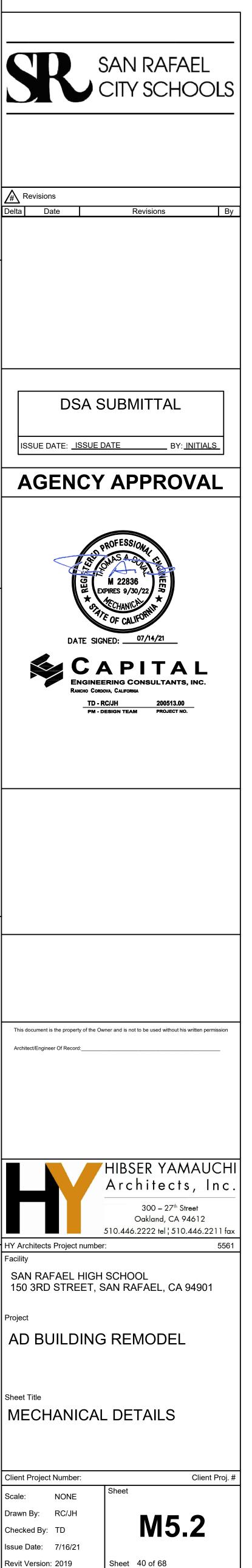


# SCALE : NONE

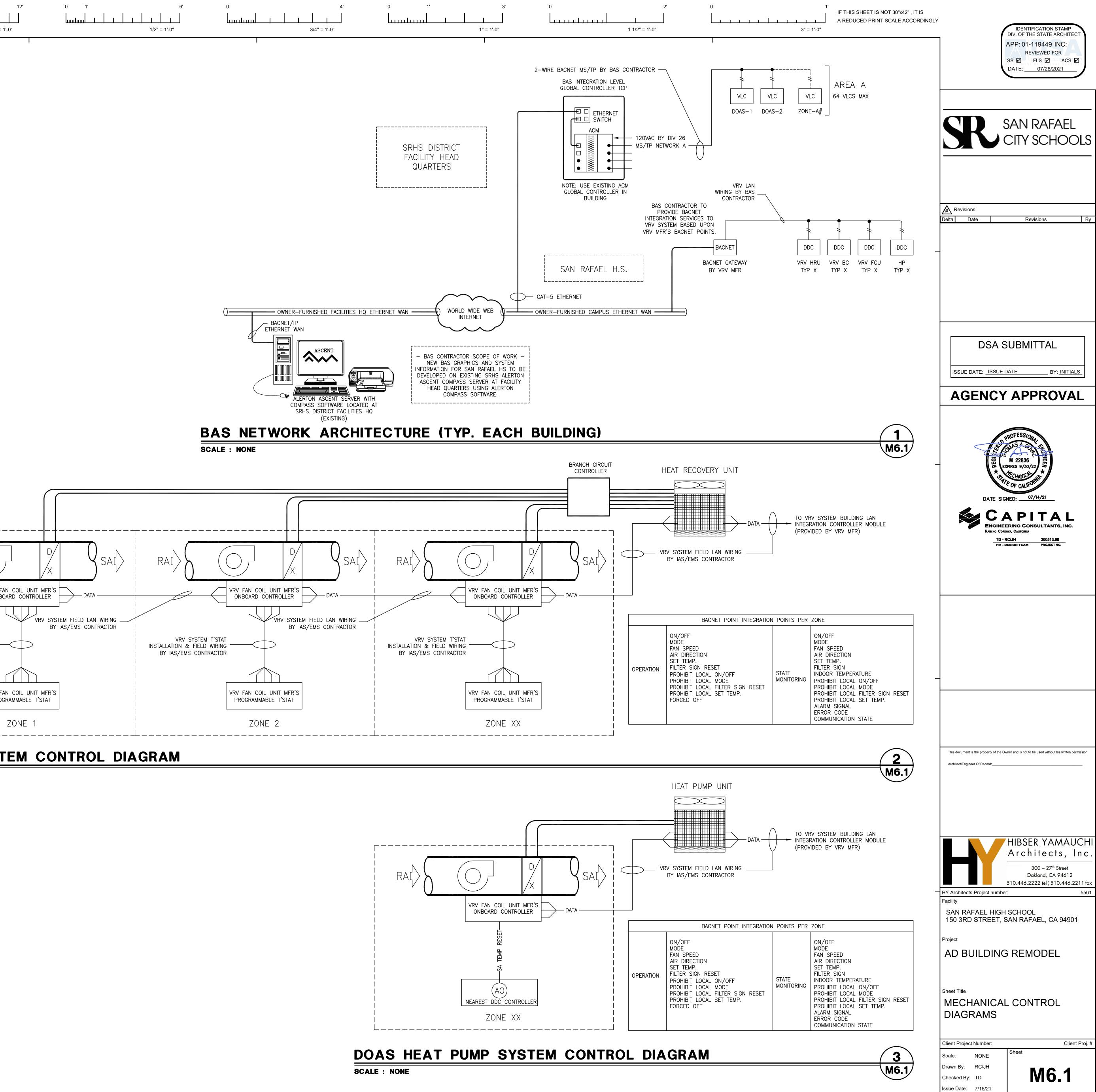


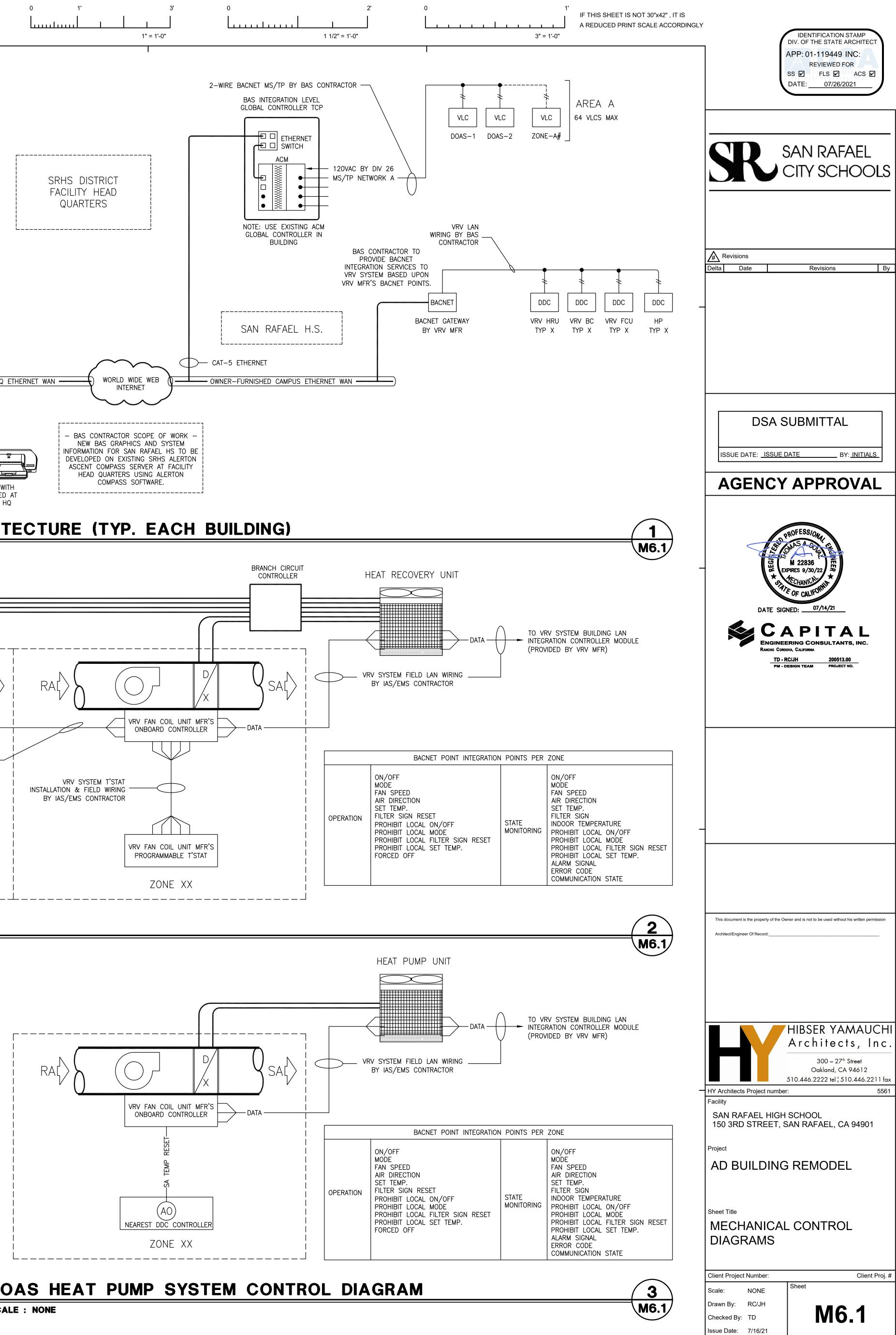






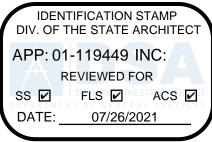
QC INI %	0 5' 50' GRAPHIC SCALES: 1/16" = 1'-0"	0 5' 	25' 0 1' 1/4" = 1
			VRV FA ONBC
			VRV SYSTEM T'STAT INSTALLATION & FIELD WIRING BY IAS/EMS CONTRACTOR
			VRV FA PROG
			VRV FAN COIL SYST
			SCALE : NONE
Ņ			
:05:49 AM			





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QC

INI %

0 5'

SAN RAFAEL HS - DOAS SEQUENCE OF OPERATION

### <u>doas ahu's</u>

25'

1/8" = 1'-0"

AHU IS PROVIDED WITH A VRV REFRIGERATION HEAT PUMP UNITS FOR THE CONTROL OF THE DISCHARGE AIR TEMPERATURE. THE AIR HANDLER IS PROVIDED TO MAINTAIN A CONSTANT AIR TEMPERATURE (+/-3 DEGREES) WITH A DX COIL.

THE AHU IS PROVIDED WITH A FACTORY INSTALLED SAMSUNG DX ELECTRONIC EXPANSION VALVE (EEV) AND A SAMSUNG CONTROL BOX. BOTH THE VALVE AND THE CONTROLLER ARE OUTDOOR RATED AND ARE TO FIELD INSTALLED. THE DX COIL IS TO BE FOR USED FOR HEATING AND COOLING. THE CONTROL BOX IS TO BE SENT A 0-10V SIGNAL IN ORDER TO STEP THE REFRIGERATION ACCORDINGLY FOR DISCHARGE AIR CONTROL. SYSTEM INITIATION

THE BMS SYSTEM WILL PROVIDE AN INITIATION COMMAND TO THE HARDWIRED INPUT TO T1/T2 TERMINAL ON THE EXV CONTROL BOX, IN ORDER TO ENABLE/DISABLE THE DX EXPANSION VALVE. THE CONTROL OF THE AIR HANDLER IS BY THE BMS SYSTEM OR DDC CONTRACTOR. COOLING MODE

WHEN THE LEAVING AIR TEMPERATURE EXCEEDS THE DISCHARGE AIR SETPOINT, PLUS THE DEADBAND TEMPERATURE, THEN MECHANICAL REFRIGERATION WILL BE STARTED TO MAINTAIN THE DISCHARGE AIR TEMPERATURE. THE VRV TARGET TEMPERATURE WILL BE STAGED TO ALLOW EVAPORATION OF THE LIQUID ENTERING THE COIL BASED UPON THE TE (TARGET EVAPORTOR TEMPERATURE) AND THE DIFFERENTIAL TEMPERATURE OF THE EXPANDED VAPOR SH (SUPERHEAT), WITH A SETTING OF (9) DEG F. THE EEV CONTROLLER WILL STEP THE VALVE, TO MAINTAIN THE PROPER SH. IF THE (SH) IS ABOVE THE TEMPERATURE DIFFERENTIAL, THE EEV WILL STEP MODULATE OPEN, AS THE DIFFERENTIAL DECREASES, AND THE EVAPORATION RATE OF THE LIQUID REFRIGERANT BECOMES LESS, THE EEV WILL STEP MODULATE

CLOSED, TO MAINTAIN SUPERHEAT. A 0-10V STEP SIGNAL WILL NEED TO BE SENT TO THE C6/C5 TERMINAL ON THE EXV CONTROL BOX.

THE FOLLOWING VOLTAGES RESPOND THE FOLLOWING TARGET REFRIGERATION EVAPORATING TEMPS: 2.5V = TE 56.3 DEGREES

5.0V = TE 51.8 DEGREES

7.5V = TE 47.3 DEGREES

### 10V = TE 42.8 DEGREES<u>HEATING MODE</u>

WHEN THE LEAVING AIR TEMPERATURE IS BELOW THE DISCHARGE AIR SETPOINT, PLUS THE DEADBAND TEMPERATURE, THEN MECHANICAL REFRIGERATION WILL BE STARTED TO MAINTAIN THE THE DISCHARGE AIR TEMPERATURE. THE VRV TARGET TEMPERATURE WILL BE STAGED TO ALLOW CONDENSING OF THE HOT REFRIGERANT GAS ENTERING THE COIL BASED UPON THE TH (TARGET HEATING TEMPERATURE) AND THE DIFFERENTIAL TEMPERATURE OF THE CONDENSED VAPOR SC (SUB-COOLING), WITH A SETTING OF (5.4) DEG F. THE EEV CONTROLLER WILL STEP THE VALVE, TO MAINTAIN THE PROPER (SC). SUB\_COOLING IS CALCUALTED BASED UPON THE OUTDOOR UNITS SATURATED CONDENSING TEMPERATURE AND THEN CONDENSED LIQUID LEAVING THE FAN COIL. IF THE (SC) IS ABOVE THE TEMPERATURE DIFFERENTIAL, THE EEV WILL STEP MODULATE CLOSE, AS THE DIFFERENTIAL INCREASES, AND THE CONDENSING RATE OF THE LIQUID REFRIGERANT BECOMES MORE, THE EEV WILL STEP MODULATE CLOSED, TO MAINTAIN SUB-COOLING IN ORDER TO ENABLE HEAT, BMS/DDC CONTROLLER MUST SEND A HEAT ENABLE TO THE A/C TERMINALS ON THE VRV

HP CONDENSING UNIT. A 0-10V STEP SIGNAL WILL NEED TO BE SENT TO THE C6/C5 TERMINAL ON THE EXV CONTROL BOX. THE FOLLOWING VOLTAGES RESPOND THE FOLLOWING TARGET REFRIGERATION EVAPORATING TEMPS:

2.5V = TC 87.8 DEGREES

5.0V = TC 96.8 DEGREES

7.5V = TC 105.8 DEGREES10V = TC 114.8 DEGREES

DISCHARGE AIR CONTROL

AIR TEMPERATURE IS CONTROLLED BY THE BMS OR DDC CONTROLLER WHICH WILL BE HARDWIRED TO EACH EXV CONTROL BOX.

AS THE LOAD INCREASES, AND THE CONTROL SIGNAL FOR THAT STAGE WILL BEGIN TO STEP THE TARGET EVAPORATOR/CONDENSING TEMPERATURE UNTIL THE MINIMUM TARGET TEMPERATURE IS REACHED. AS THE LOAD DECREASES, AND THE CONTROL SIGNAL FOR THAT STAGE WILL REDUCE ITS CONTROL SIGNAL AND STEPPED DOWN TARGET EVAPORATOR/CONDENSING TEMPERATURE UNTIL THE MAXIMUM TARGET TEMPERATURE IS REACHED.

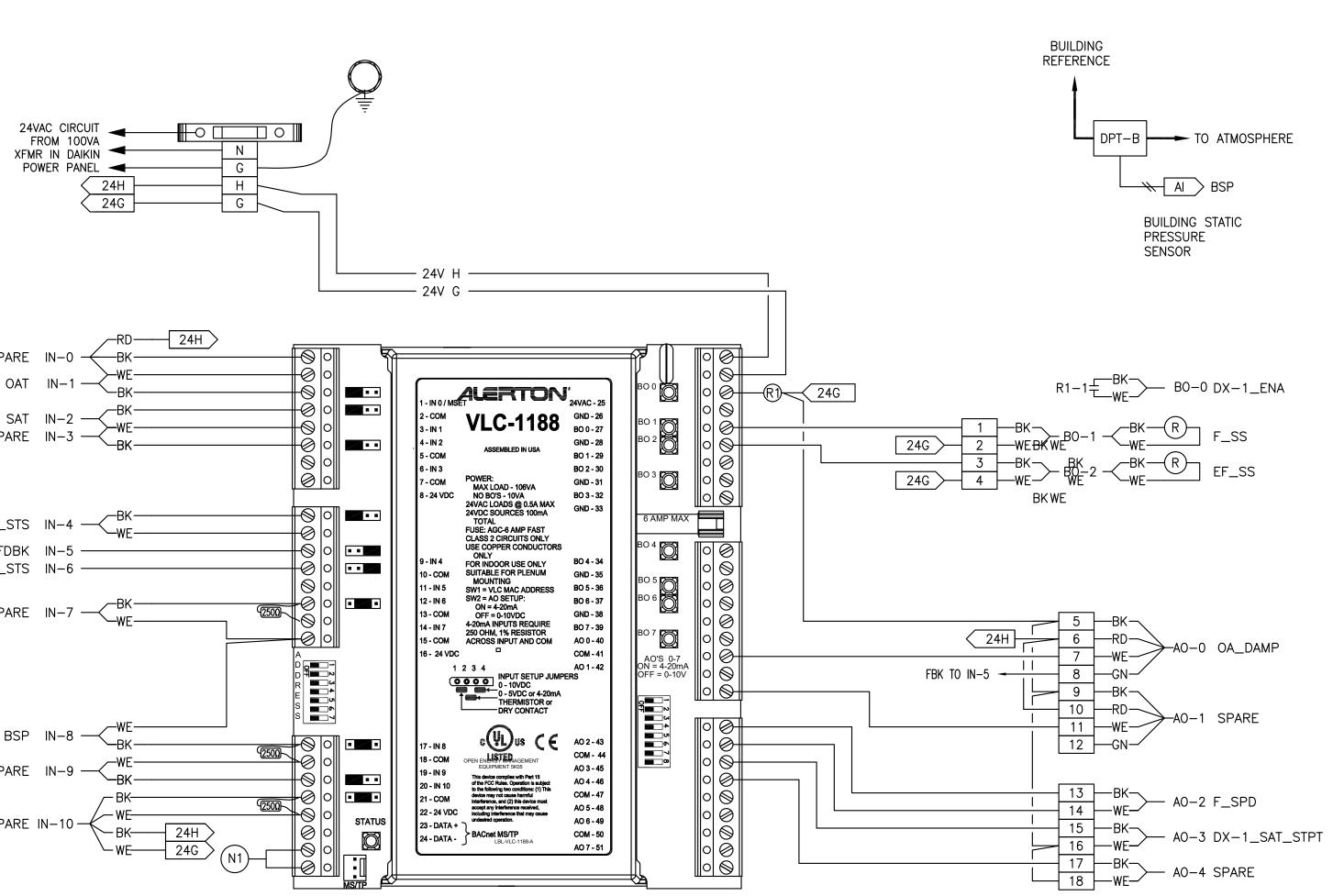
A STAGE DELAY OF 300 SECONDS WILL KEEP THE SYSTEMS FROM SHORT CYCLING, WHEN THE COMPRESSORS CYCLE OFF.

FAN OPERATION

FAN OPERATION IS CONTROLLED FROM THE BMS SYSTEM OR DDC CONTROLLER. PROVIDE PROOF-OF-FAN OPERATION. PROOF-OF-FAN OPERATION SHALL BE MONITORED BY A DIFFERENTIAL PRESSURE SWITCH. DIFFERENTIAL PRESSURE SWITCH SHALL BE FIELD INSTALLED BY TEMPERATURE CONTROL EMS CONTRACTOR. WHEN THE AIR PRESSURE IN THE UNIT LEAVING AIR SECTION, RAISES ABOVE THE DPS SETPOINT (0.5% ADJUSTABLE), THE CONTROL OF THE EEV / VRV WILL BE INITIATED.

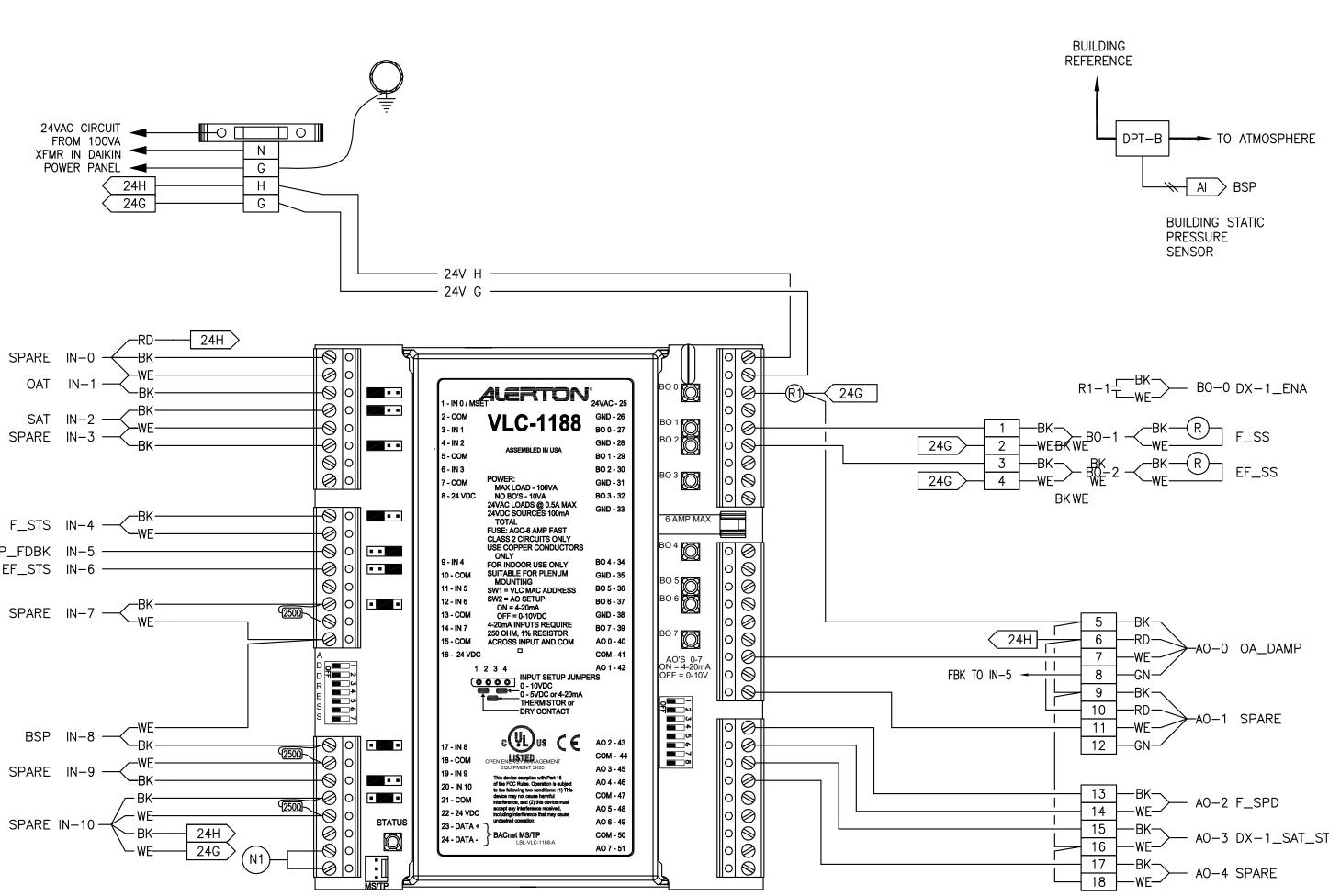
THE VRV / EEV KIT IS STARTED BY A CONTACT CLOSURE WIRED TO THE T1/T2 TERMINALS INSIDE THE EKEQFCBAV CONTROLLER. IN THE EVENT OF A FAN FAILURE THE VRV SYSTEM WILL STOP AND THE OUTDOOR UNITS WILL SHUTDOWN. DEFROST CONTROL

EACH OF THE EEV CONTROLLERS IS EQUIPPED WITH A DIGITAL OUTPUT POINT, INDICATING WHEN THE OUTDOOR UNITS ENTER THE DEFROST MODE. WHEN DEFROST IS INITAITED, THE BMS SYSTEM WILL REDUCE THE FAN SPEED TO 50% OF IT CURRENT SETTING, DURING THE DEFROST PERIOD (TYPICALLY 5-7 MINUTES). UPON EXPIRATION OF THE DEFROST CYCLE THE BMS WILL RESTORE THE FAN DELIVERY TO NORMAL CONDITION.



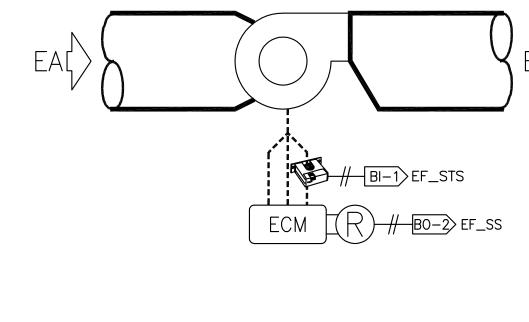
SPARE IN-0 OAT IN-1 SAT IN-2 SPARE IN-3 F\_STS IN-4

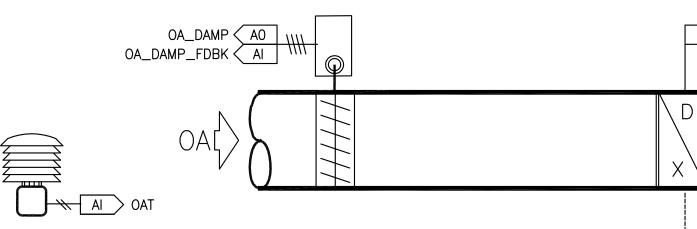
OA\_DAMP\_FDBK IN-5 EF\_STS IN-6 -SPARE IN-7



DOAS CONTROL DIAGRAM

SCALE : NONE



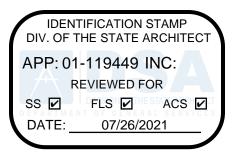


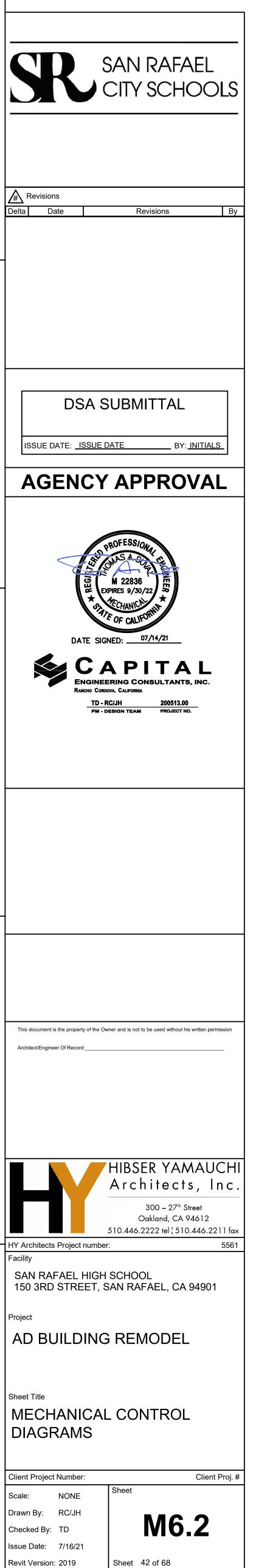
3' 	o []	2'  1 1/2" = 1'-0"	° 		IS SHEET IS NOT 30"x42" , IT IS DUCED PRINT SCALE ACCORDINGLY
EA					
AO DX-1_SAT BO DX-1_ENA	I_STPT A			SAT	
X X			U		
COMM TO SAMSUNG VRF EQUIPMENT	ECN	H BI F_STS H AO F_SPD BO F_SS			

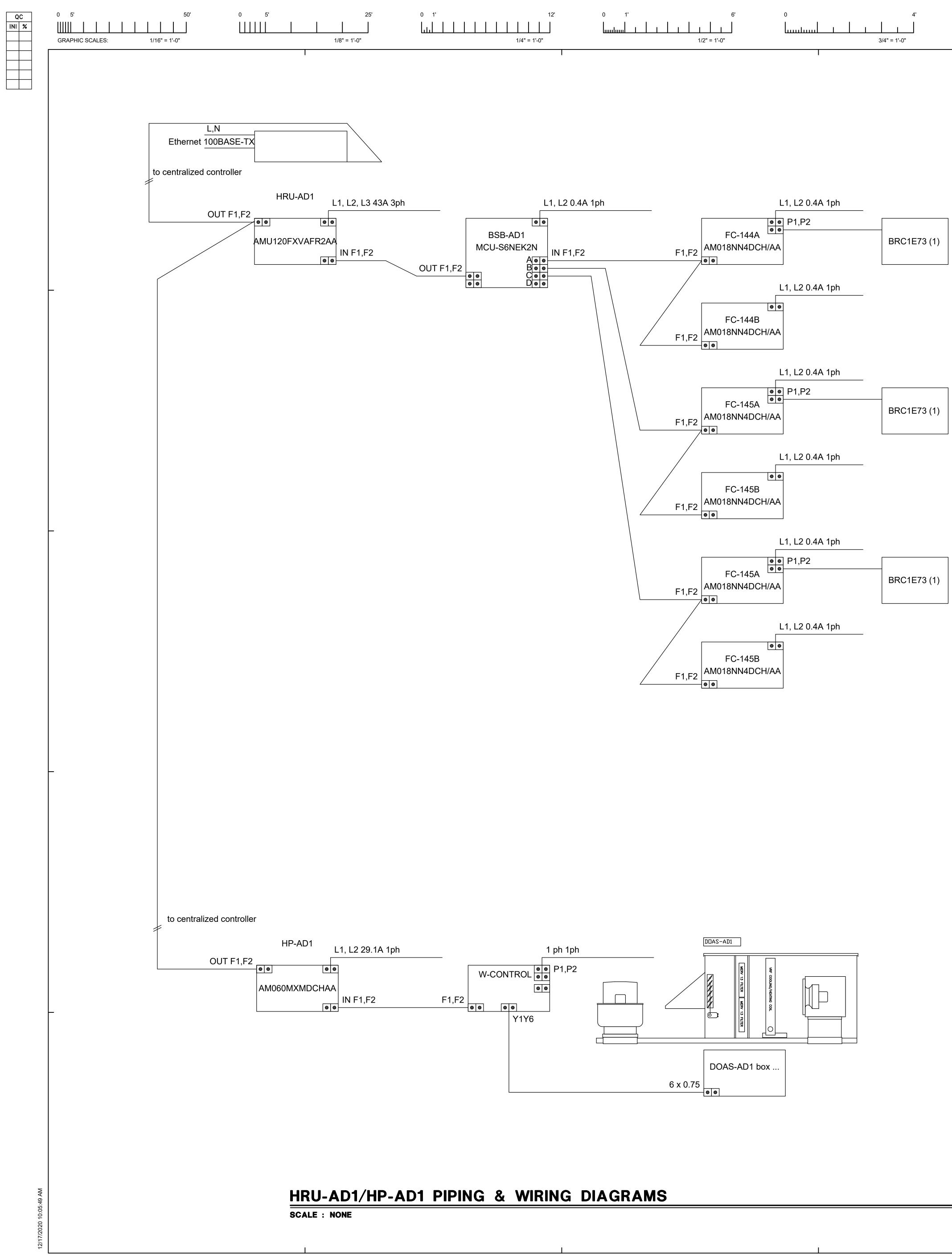
## **DEVICE NAME:** [SITE NAME]\_[BUILDING]\_[DEVICE TAG NAME]\_[AREA SERVED]

1/0	POINT NAME POINT DESCRIPTION	PT. TYPE	[RANGE] UNIT	DETAIL
BO-0	DX-1_ENA DX COIL #1 ENABLE	BINARY (NO)	ON/OFF	
BO-1	F_SS FAN START/STOP	BINARY (NO)	ON/OFF	
BO-2	EF_SS EXHAUST FAN START/STOP			
BO-3	SPARE			
BO-4	SPARE			
BO-5	SPARE			
BO-6	SPARE			
BO-7	SPARE			
AO-0	OA_DAMP OUTSIDE AIR DAMPER COMMAND	2-10 VDC	[0-100]%	B3
AO-1	SPARE			
AO-2	F_SPD FAN SPEED	0-10VDC	[0-100]%	A28
AO-3	DX-1_SAT_STPT DX SUPPLY AIR TEMP SETPOINT	0-10VDC	FIELD VERIFY	
AO-4	SPARE			
AO-5	SPARE			
AO-6	SPARE			
AO-7	SPARE			
IN-0	SPARE			
IN-1	OAT OUTSIDE AIR TEMPERATURE	THERMISTOR	DEG F	A6
IN-2	SAT SUPPLY AIR TEMPERATURE	THERMISTOR	DEG F	A4
IN-3	SPARE			
IN-4	F_STS FAN STATUS	BINARY (NO)	ON/OFF	A28
IN-5	OA_DAMP_FDBK OUTSIDE AIR DAMPER FEEDBACK	2-10VDC	[0-100]%	B3
IN-6	EF_STS EXHAUST FAN STATUS	BINARY (NO)	ON/OFF	
IN-7	SPARE			
IN-8	BSP BUILDING STATIC PRESSURE	4-20mA	+/- 0.05 IN W.C.	A7
IN-9	SPARE			
IN-10	SPARE			

M6.2/

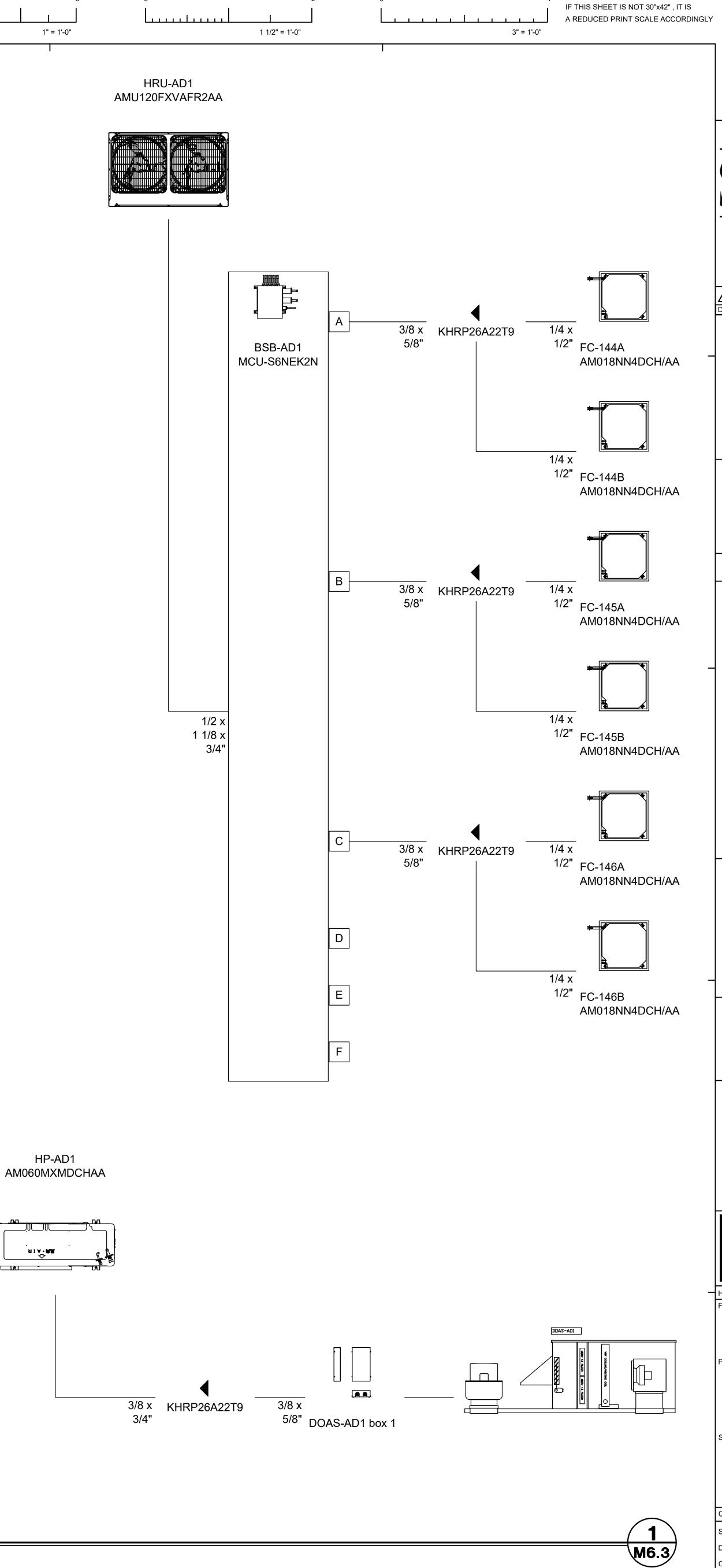


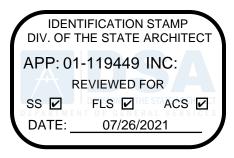


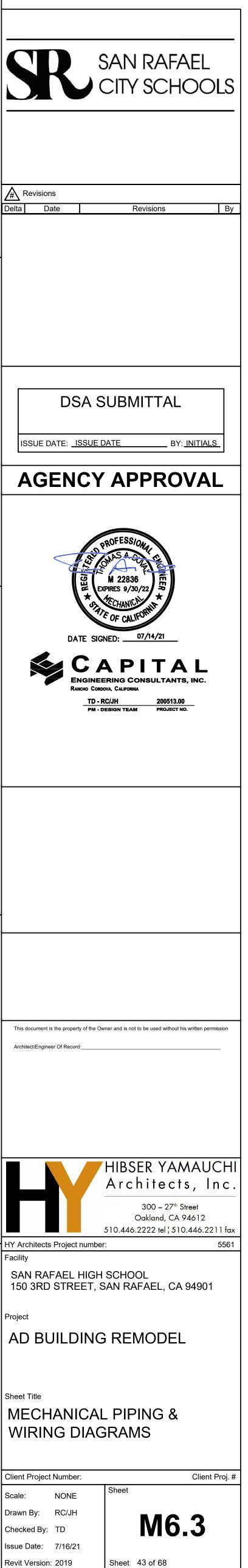


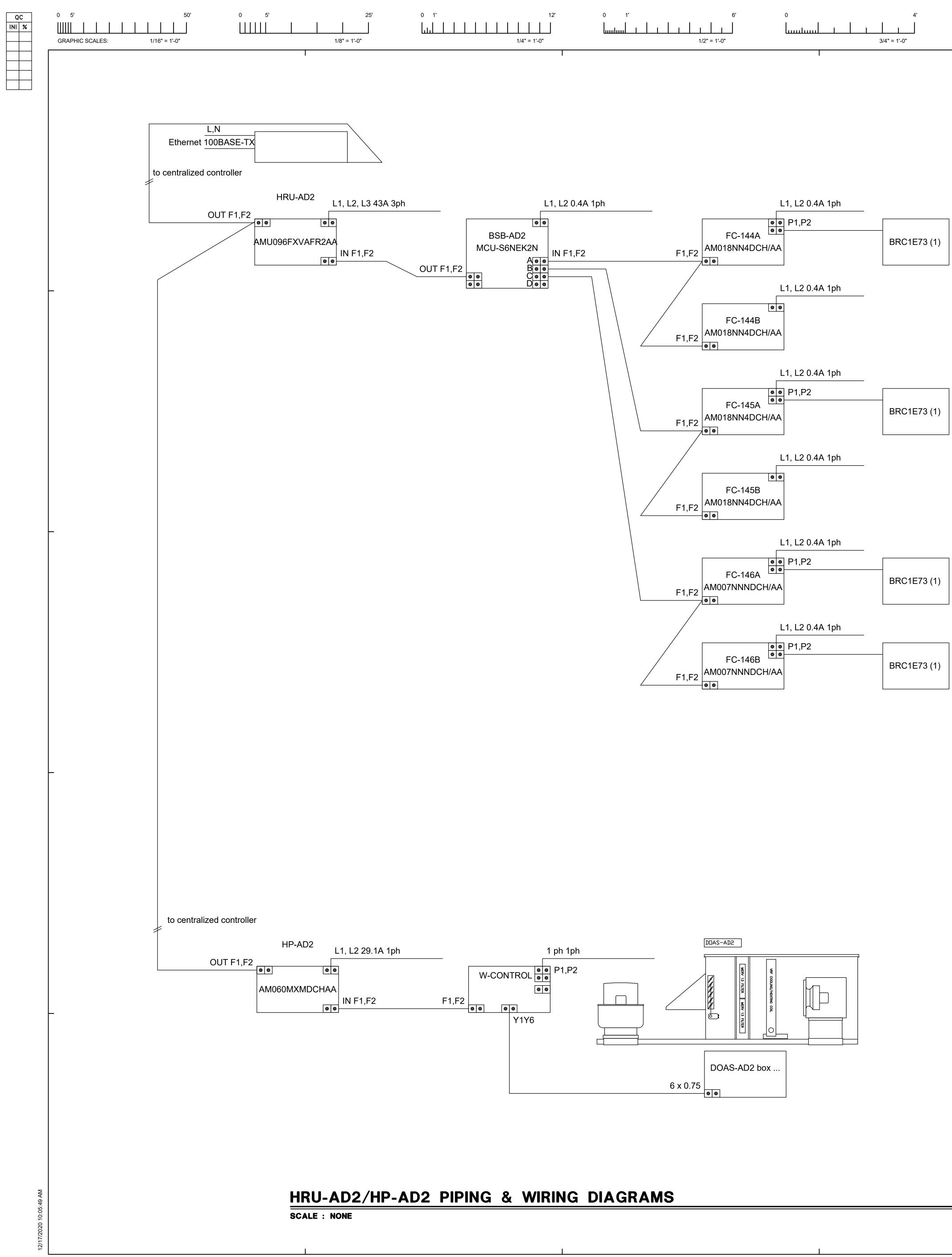
12'	0 1' 6'	0	4'
= 1'-0"	1/2" = 1'-0"		3/4" = 1'-0"

a ta**`n⊨**Mat 



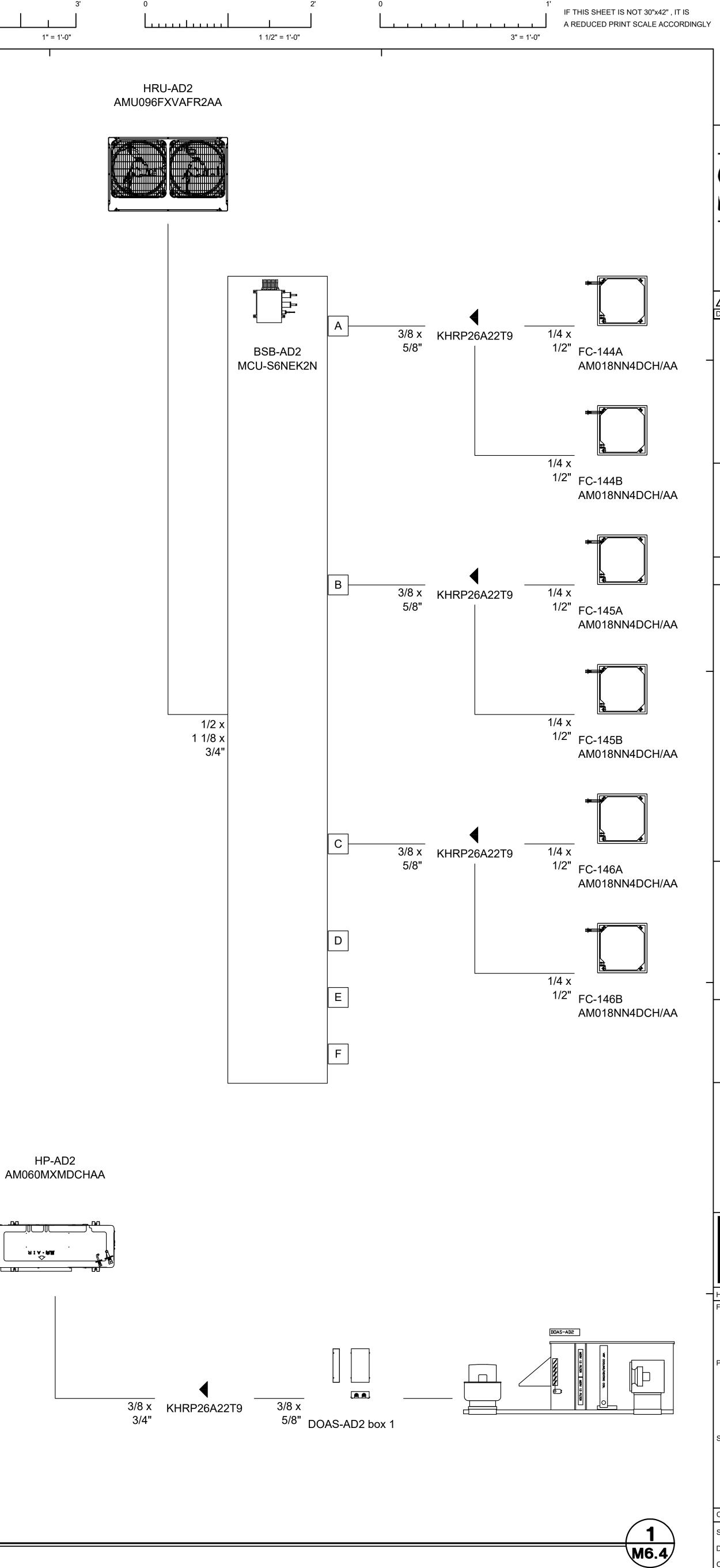






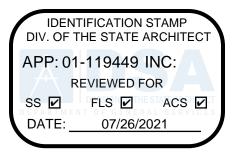
12'	0 1'	6'	0	4'
= 1'-0"	1,	/2" = 1'-0"	3	8/4" = 1'-0"

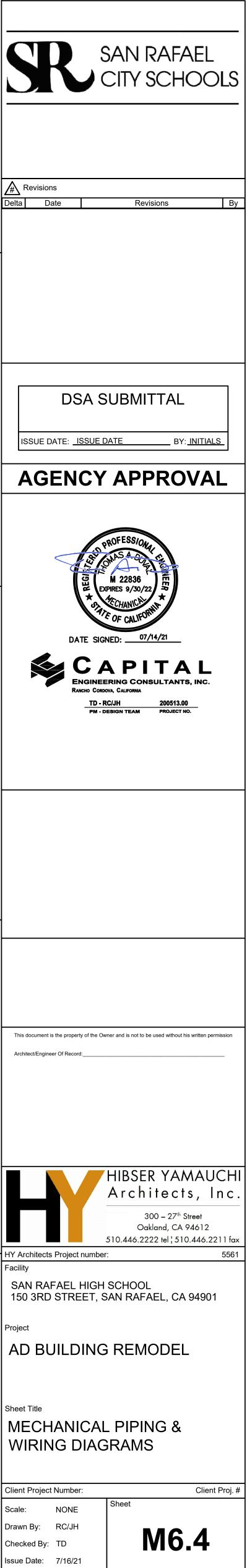
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QC INI %

### STATE OF CALIFORNIA Mechanical Systems

NRCC-MCH-E (Created 11/18)				CALIFORNIA	NERGY COMMISS
CERTIFICATE OF COMPLIANCE					
Table Instructions: Include any mechanical or for alterations.	systems that are within the scope of the perm	nit ap	plication and	are demonstrating complian	nce using the p
Project Name: San Rafael HS AD Building	Remodel			Report Page:	
Project Address: 150 3rd St., San Rafael, CA	A 94901			Date Prepared:	
A. GENERAL INFORMATION					
01 Project Location (city)	San Rafael	04	Total Condit	tioned Floor Area	
02 Climate Zone	2	05	Total Uncor	ditioned Floor Area	
03 Occupancy Types Within Project:		06	# of Stories	(Habitable Above Grade)	
Office Retai	Non-refrigerated	War	ehouse	Hotel/ Motel	🖌 S
High-Rise Residential Reloc	atable Class Bldg 🛛 🗌 Other (Write In):				
<sup>1</sup> FOOTNOTES: Climate zone can be determine	ned on the California Energy Commission's we	ebsite	e at		

25'

1/8" = 1'-0"

### **B. PROJECT SCOPE**

My project consists of (check all that apply) 02	
02	03
Wet System Components	Dry System Components
Water Economizer	Air Economizer
Pumps	Electric Resistance Heat
Hydronic System Piping	Fan Systems
Cooling Towers	Ductwork
Chillers	Ventilation
Boilers	Zonal Systems/ Terminal Boxes
	Water Economizer  Pumps Hydronic System Piping Cooling Towers Chillers

### C. COMPLIANCE RESULTS

C. COMIT LIAI	ICL I	LOOLIO													
Table Instruct	ions:	If any cell on t	his ta	ble says "DOES	S NOT	COMPLY" or "	сом	PLIES with Exc	eptior	nal Conditions'	' refei	to Table D. fo	r guid	lance.	
01		02		03		04		05		06		07		08	
System Summary , ,	AND	Pumps	AND	Fans/ Economizers ,	AND	System Controls , ,	AND	Ventilation	AND	Terminal Box Controls	AND	Distribution ,	AND	Cooling Towers	
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
No	AND		AND		AND	Yes	AND		AND		AND		AND		ĺ
Table Continu	ed														

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards

ated 11/18)					CALIFORNIA ENERGY C	OMMISSION
OF COMPLIANCE						
San Rafael HS AD Building F	Remodel			Report Page:		
ss: 150 3rd St., San Rafael, CA	94901			Date Prepared:		
quipment Efficiency (other tha	n Package Terminal Air C	Conditioners (PTAC	) and Package Ter	minal Heat Pump	os (PTHP))	
02	03	04	05	06	07	08
		Heating M	ode			Cooling N
Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Min Efficiency Required per / Title20	Design Efficiency	Efficiency Unit	Min Effici Required Title 2
	San Rafael HS AD Building F ss: 150 3rd St., San Rafael, CA quipment Efficiency (other that 02 Size Category	DF COMPLIANCE San Rafael HS AD Building Remodel ss: 150 3rd St., San Rafael, CA 94901 quipment Efficiency (other than Package Terminal Air C 02 03 Size Category (Btu/h) Rating Condition	DF COMPLIANCE San Rafael HS AD Building Remodel ss: 150 3rd St., San Rafael, CA 94901 quipment Efficiency (other than Package Terminal Air Conditioners (PTAC 02 03 04 Size Category (Btu/h) Rating Condition Efficiency Unit	DF COMPLIANCE San Rafael HS AD Building Remodel Ss: 150 3rd St., San Rafael, CA 94901 Quipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal 02 03 04 05 Heating Mode Size Category (Btu/h) Rating Condition (°F) Efficiency Unit Required per /	DF COMPLIANCE San Rafael HS AD Building Remodel Report Page: Date Prepared: Date	DF COMPLIANCE         Report Page:         San Rafael HS AD Building Remodel       Report Page:         Date Prepared:         ss: 150 3rd St., San Rafael, CA 94901       Date Prepared:         Quipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))         02       03       04       05       06       07         Size Category (Btu/h)       Rating Condition (°E)       Min Efficiency Required per /       Design Efficiency Unit

6. PUMPS	
his Section Does Not Apply	

RCC-MCH-E (Create CERTIFICATE OF											NRCC-MC
roject Name:	San Rafael HS AD	Building Remode	1			F	Report Pa	age:			
roject Address:	150 3rd St., San R	afael, CA 94901					Date Pre				2021-04
Dry System Equi	pment Efficiency (	other than Packa	a Torminal Air Co	anditionars (I	(PTAC) and Pag	kago Torr	minal Ho	at Ruma			
	02		03	04		5				08	09
01	02		03			5	0	D	07		09
				Heatin	ing Mode					Cooling Mode	
Name or Item Tag	Size Category (Btu/h)	Ra	ting Condition (°F)	Efficiency L	Unit Require	ficiency ed per / e20	Desi Effici		Efficiency Unit	Min Efficiency Required per / Title 20	Design Efficiency
											Reset
G. PUMPS											
This Section Doe	s Not Apply										
his Section Doe		MIZERS									
This Section Doe	s Not Apply		demonstrate comp	liance with n	mandatory con	trols in a	nd and p	prescripti	ve controls in and	d or requirements	in for altered
This Section Doe	s Not Apply TROLS		demonstrate comp	pliance with n	mandatory con 05	trols in a		prescripti	ve controls in and	d or requirements	in for altered
This Section Doe . SYSTEM CON Table Instruction	s Not Apply <b>TROLS</b> ns: Complete the fo	llowing Table to					6 n Zone				-
This Section Doe <b>SYSTEM CON</b> Table Instruction 01	s Not Apply TROLS ns: Complete the fo	llowing Table to 03 Conditioned Floor Area Being Served	04 Thermosta	its	05 Shut-Off	06 Isolation Contr	5 n Zone rols	Dema	07	08 Supply Air	09 Window
This Section Doe SYSTEM CON Table Instruction 01 System Name	s Not Apply TROLS ns: Complete the fo 02 System Zoning	llowing Table to 03 Conditioned Floor Area Being Served (ft <sup>2</sup> )	04 Thermosta or	its stat Aut	05 Shut-Off Controls	Isolation Contr Auto TIm	5 n Zone rols neswitch	Dema	07 and Response	08 Supply Air Temp. Reset	09 Window Interlocks pe
This Section Doe SYSTEM CON Table Instruction 01 System Name Bldg A (West) Bldg A (East) * NOTES: Contro	s Not Apply TROLS ns: Complete the for 02 System Zoning single Lone	Illowing Table to 03 Conditioned Floor Area Being Served (ft <sup>2</sup> ) ≤ 25,000 ft <sup>2</sup> ≤ 25,000 ft <sup>2</sup> a note in the space	04 Thermosta or Setback Thèrmos Setback Thèrmos	stat Aut stat Aut stat Aut	05 Shut-Off Controls uto TImeswitch uto TImeswitch liance is achieve	Isolation Contr Auto TIm Auto TIm ed.	5 n Zone rols neswitch	Dema	07 and Response	08 Supply Air Temp. Reset Included	09 Window Interlocks pe Providæd
This Section Doe SYSTEM CON Table Instruction 01 System Name Bldg A (West) Bldg A (East) * NOTES: Contro	s Not Apply TROLS TROLS System Zoning single 2one single 2one single 2one single 2one	Illowing Table to 03 Conditioned Floor Area Being Served (ft <sup>2</sup> ) ≤ 25,000 ft <sup>2</sup> ≤ 25,000 ft <sup>2</sup> a note in the space	04 Thermosta or Setback Thèrmos Setback Thèrmos	stat Aut stat Aut stat Aut	05 Shut-Off Controls uto TImeswitch uto TImeswitch liance is achieve	Isolation Contr Auto TIm Auto TIm ed.	5 n Zone rols neswitch	Dema	07 and Response	08 Supply Air Temp. Reset Included	09 Window Interlocks pe Providæd
This Section Doe SYSTEM CON Table Instruction 01 System Name Bldg A (West) Bldg A (East) * NOTES: Contro	s Not Apply TROLS  ns: Complete the for 02 System Zoning single tone single tone ls with a * require of Temp Reset: Exem	Illowing Table to 03 Conditioned Floor Area Being Served (ft <sup>2</sup> ) ≤ 25,000 ft <sup>2</sup> ≤ 25,000 ft <sup>2</sup> a note in the space	04 Thermosta or Setback Thèrmos Setback Thèrmos	stat Aut stat Aut stat Aut	05 Shut-Off Controls uto TImeswitch uto TImeswitch liance is achieve	Isolation Contr Auto TIm Auto TIm ed.	5 n Zone rols neswitch	Dema	07 and Response 1	08 Supply Air Temp. Reset Included Included	09 Window Interlocks pe Providæd Providæd

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards

STATE OF CALIFORNIA			
Mechanical Systems			
NRCC-MCH-E (Created 11/18)			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE			
Project Name: San Rafael HS AD Building Remodel			Report Page:
Project Address: 150 3rd St., San Rafael, CA 94901			Date Prepared:
			•
P. MANDATORY MEASURES DOCUMENTATION LOCATI	ON		
Table Instructions: Indicate where mandatory measures are d	ocumented in the plan set or co	onstruction do	cumentation. For any mandatory measures th
01			02
01			Plan sheet or construction document lo
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block:	Yes 1		

1/2" = 1'-0"

## NRCC-MCH-E prescriptive path outlined in , 2021-04-+ 5151 0 2 School omponents 09 Compliance Results DOES NOT COMPLY

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STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (Created 11/18)
CEDTIFICATE OF COMPLIANCE

Mechanical Systems       CALIFORNIA ENERGY COMMISSION         NRCC-MCH-E (Created 11/18)       CALIFORNIA ENERGY COMMISSION									
CERTIFICATE OF COMPLIANCE	ERTIFICATE OF COMPLIANCE NRCC-MCH-E								
Table Instructions: Include any mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in , or for alterations.									
roject Name: San Rafael HS AD Building Remodel Report Page:									
Project Address: 150 3rd St., San Rafael, CA 94901 Date Prepared:							2021-04-1+		
Table Continued									
01 02	03 04	05		06	07		08	09	
System   Pumps	Fans/ nomizers AND Syste ,	IANUI Ventilation	IANDI	inal Box htrols	Distribution ,	AND	Cooling Towers	Compliance Results	
(See Table F) (See Table G) (See	e Table H) (See Ta	le I) (See Table J	) (See	Table K)	(See Table L)		(See Table M)		
Mandatory Measures Compliance (See Table P for Details)							DOES NOT COMPLY		

3/4" = 1'-0"

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards

STATE OF CALI						
	ical Syst Created 11/18			CALIFORNIA ENERGY COMMISSION		
	E OF COMP			entri onnin entensi commission	1	NRCC-MCH
Project Nam	ne: San R	afael HS AD Building Remode	I	Report Page:		
Project Add	ress: 150 3	Brd St., San Rafael, CA 94901		Date Prepared:		2021-04-
K. TERMIN	AL BOX CO	ONTROLS				6
This Section	n Does Not A	Apply				
L. DISTRIB	UTION (DL	JCTWORK AND PIPING)				6
This Section	Does Not A	Apply				
M. COOLIN	NG TOWER	RS				
This Section	Does Not A	Apply				
						6
N. DECLAR	RATION OF	REQUIRED CERTIFICATES	DF INSTALLATION			
			on information provided in previous tables of this doc be provided to the building inspector during construct		olease explair	n why in
YES	NO		Form/Title		Field In	spector
TE5			Portigritie		Pass	Fail

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards

NRCC-MCH-E
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STATE OF CALIFORNIA  Mechanical Systems NRCC-MCH-E (Created 11/18) CERTIFICATE OF COMPLIANCE Project Name: San Rafael HS AD Building Remodel Project Address: 150 3rd St., San Rafael, CA 94901 Date Prepared: Documentation Author Name: Aaron Wintersmith Documentation Author Signature Date: 4/11/2021 Company: Capital Engineering Consultants Inc. Signature Date: 4/11/2021 Address: 11020 Sun Center Dr., Suite 100 CEA/ HERS Certification Identification (if applicable): City/State/Zip: Rancho Cordova, CA 95670 Phone: 916-851-3500 RESPONSIBLE PERSON'S DECLARATION STATEMENT 1. The information provided on this Certificate of Compliance is true and correct.	
NRCC-MCH-E (Created 11/18)       CALIFORNIA ENERGY COMMISSION         CERTIFICATE OF COMPLIANCE       Report Page:         Project Name:       San Rafael HS AD Building Remodel       Report Page:         Project Address:       150 3rd St., San Rafael, CA 94901       Date Prepared:         Documentation Author Name:       Aaron Wintersmith       Documentation Author Signature:       Image: 11/12021         Company:       Capital Engineering Consultants Inc.       Signature Date:       4/11/2021         Address:       11020 Sun Center Dr., Suite 100       CEA/ HERS Certification Identification (if applicable):         City/State/Zip:       Rancho Cordova, CA 95670       Phone:       916-851-3500         RESPONSIBLE PERSON'S DECLARATION STATEMENT       I. The information provided on this Certificate of Compliance is true and correct.       Vinceret.	
CERTIFICATE OF COMPLIANCE       Report Page:         Project Name:       San Rafael HS AD Building Remodel       Report Page:         Project Address:       150 3rd St., San Rafael, CA 94901       Date Prepared:         DOCUMENTATION AUTHOR'S DECLARATION STATEMENT         Documentation Author Name:       Aaron Wintersmith       Documentation Author Signature:       4/11/2021         Company:       Capital Engineering Consultants Inc.       Signature Date:       4/11/2021         Address:       11020 Sun Center Dr., Suite 100       CEA/ HERS Certification Identification (if applicable):         City/State/Zip:       Rancho Cordova, CA 95670       Phone:       916-851-3500         RESPONSIBLE PERSON'S DECLARATION STATEMENT       1. The information provided on this Certificate of Compliance is true and correct.       1. The information provided on this Certificate of Compliance is true and correct.	122
Project Address:       150 3rd St., San Rafael, CA 94901       Date Prepared:         DOCUMENTATION AUTHOR'S DECLARATION STATEMENT       Documentation Author Name:       Aaron Wintersmith       Documentation Author Signature:         Company:       Capital Engineering Consultants Inc.       Signature Date:       4/11/2021         Address:       11020 Sun Center Dr., Suite 100       CEA/ HERS Certification Identification (if applicable):         City/State/Zip:       Rancho Cordova, CA 95670       Phone:       916-851-3500         RESPONSIBLE PERSON'S DECLARATION STATEMENT       I. The information provided on this Certificate of Compliance is true and correct.       View and correct.	NRCC-MCH
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Address:       11020 Sun Center Dr., Suite 100       CEA/ HERS Certification Identification (if applicable):         City/State/Zip:       Rancho Cordova, CA 95670       Phone:       916-851-3500         RESPONSIBLE PERSON'S DECLARATION STATEMENT       I. The information provided on this Certificate of Compliance is true and correct.       916-851-3500	
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<b>RESPONSIBLE PERSON'S DECLARATION STATEMENT 1.</b> The information provided on this Certificate of Compliance is true and correct.	
1. The information provided on this Certificate of Compliance is true and correct.	
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certific	cate of
Compliance (responsible designer)	
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.	on this Certificat
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other ap compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit appl	
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and n the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included documentation the builder provides to the building owner at occupancy.	d with the
Responsible Designer Name: Thomas A. Duval Responsible Designer Signature:	

Responsible Designer Name:	Thomas A. Duval	Responsible Designer Signature: 🧠	A
Company :	Capital Engineering Consultants Inc.	Date Signed:	4/11/2021
Address:	11020 Sun Center Dr., Suite 100	License:	M22836
City/State/Zip:	Rancho Cordova, CA 95670	Phone:	916-851-3500

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards

1 1/2" = 1'-0"

3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

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### STATE OF CALIFORNIA Mechanical Systems

1" = 1'-0"

STATE OF CALIFORNIA			
Mechanical Systems			(79)
NRCC-MCH-E (Created 11/18)		CALIFORNIA ENERGY COMMISSION	2
CERTIFICATE OF COMPLIANCE			NRCC-MCH-
Project Name: San Rafael HS AD Building Remodel		Report Page:	
Project Address: 150 3rd St., San Rafael, CA 94901		Date Prepared:	2021-04-
D. EXCEPTIONAL CONDITIONS			<b>2</b>
This table is auto-filled with uneditable comments bec	cause of selections made or data entered in tables thr	oughout the form.	
required. Selections made in Table O have been changed by the	e permit applicant. See Table E. Additional Remarks for	or permit applicant's explanation.	
E. ADDITIONAL REMARKS			
This table includes remarks made by the permit applic	ant to the Authority Having Jurisdiction.		
F. HVAC SYSTEM SUMMARY (DRY & WET SYSTE	MS)		2
Table Instructions : Complete the following equipment	t schodulos to show compliance with mandatory requi	iroments found in and and prosprintive requirements	ants found in and

Table Instr	able Instructions: Complete the following equipment schedules to show compliance with mandatory requirements found in and prescriptive requirements found in, and										
Dry System	Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)										
01	02	03	04	05	06	07	08	09	10	11	
					Equipme	nt Sizing pe	er Mechani	cal Schedu	le (Btu/h)		
Name or Item Tag			Smallest Size	Hea	ating Outp	ul <sup>2,3</sup>	Cooling	Culpul <sup>2,3</sup>	<sup>3</sup> Load Calculations <sup>3</sup>		
	Equipment Category per	oment Category per Equipment Type per & Title 20	Available <sup>1</sup>	Per Design (Btu/h)	Rated (Btu/h)	Supp. Heating Output (Btu/h)	Sensible Per Design (Btu/h)	Rated (Btu/h)	Total Heating Load	Total Sensible Cooling Load	
HRU-AD1	Variable Refrigerant Flow		Yes	50,000	50,000	0	40,000	35,000	60,000	40,000	
HRU-AD2	Variable Refrigerant Flow		Yes	50,000	50,000	0	40,000	35,000	60,000	40,000	
						Rese	et 📃	Add Row	Rem	ove Last	

<sup>1</sup> FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a).

<sup>2</sup> It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables. <sup>3</sup> If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank. <sup>4</sup> Authority Having Jurisdiction may ask for load calculations used for compliance per .

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards

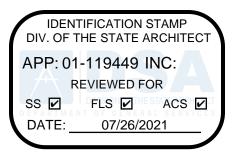
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards

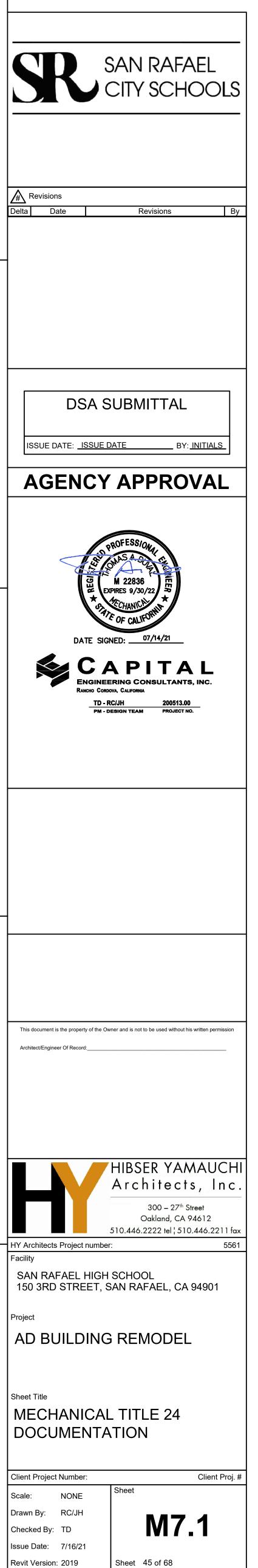
### STATE OF CALIFORNIA Mechanical Systems

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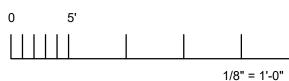
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oject Nam		PLIANCE	1	IRCC-MCH	
oiect Add	ie: San f	Rafael HS AD Building Remodel Report Page:			
oject Add	ress: 150 3	3rd St., San Rafael, CA 94901 Date Prepared:		2021-04-	
. DECLAR		REQUIRED CERTIFICATES OF ACCEPTANCE AND VERIFICATION		(	
ble E. Add		ections have been made based on information provided in previous tables of this document. If any selection needs to be changed, p marks. These documents must be provided to the building inspector during construction and can be found online at (for Certificates ification).	s of Accepta	nce) and	
YES	NO	Form/Title	Field Insp		
			Pass	Fail	
$\odot$	0	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (If applicable) since testing activities overlap.			
$\odot$	0	NRCA-MCH-03-A Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If constant volume, single zone unitary AC/HP Systems are included in the scope, permit applicant should move this form to "Yes".			
0	•	NRCA-MCH-04-A Air Distribution Duct Leakage			
0	۲	NRCV-MCH-04-H Duct Leakage Test NOTE: Must be completed by a HERS Rater			
0	•	NRCA-MCH-05-A Air Economizer Controls			
0	۲	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.			
0	۲	NRCA-MCH-07-A Supply Fan Variable Flow Controls			
0	۲	NRCA-MCH-08-A Valve Leakage Test			
0	•	NRCA-MCH-09-A Supply Water Temperature Reset Controls			
0	۲	NRCA-MCH-10-A Hydronic System Variable Flow Controls			
0	۲	NRCA-MCH-11-A Automatic Demand Shed Controls			
0	۲	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units NOTE: This form does not automatically move to "Yes". If package DX Systems are included in the scope, permit applicant should move this form to "Yes".			
0	$\odot$	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance			
0	۲	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance NOTE: This form does not automatically move to "Yes". If Distributed Energy Storage DX AC Systems are included in the scope, permit applicant should move this form to "Yes".			
0	$\odot$	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance			
0	$\odot$	NRCA-MCH-16-A Supply Air Temperature Reset Controls			
0	۲	NRCA-MCH-17-A Condenser Water Temperature Reset Controls			
•	0	NRCA-MCH-18 Energy Management Control Systems			





0 5' 50' GRAPHIC SCALES: 1/16" = 1'-0"



0 1' 1/4" = 1'-0"

12'

	SIGNAL WIRE/CABLE SCHEDULE								
TYPE	DESCRIPTION	SYSTEM							
A	2#16 TWISTED/UNSHIELDED	INITIATION - SLC LOOP							
В	2#12	HORN / STROBE CIRCUIT							
D	2#14	24 VDC POWER							
Ε	2#14	CLOCKS							
F	2#18 TWISTED SHIELDED	EXTERIOR AND INDOOR SPEAKERS							
G	CATEGORY 6A	FOR WIRELESS ACCESS							
K	CATEGORY 6A	SECURITY CAMERAS, DATA, VOICE, CLOCK/SPEAKER							

25'

NOTE: ALL EXTERIOR CABLE SHALL BE WET RATED.

			F	IXTU	RE SCHEDULE		
TYPE	MANUFACTURER AND CATALOG NUMBER	LAMP QUANTITY AND TYPE	1	TTAGE AND LTAGE	DESCRIPTION	WEIGHT	MOUNTING DETAIL
А	FINELITE #S12 LED ID-DCO-4'-3E-S-H-830- OEPN-277-SC-FA-FE	LED		WATTS 277 V	SUSPENDED LINEAR FIXTURE	16 LBS	3/E0.05
	FINELITE #S12 LED ID-DCO-4'-3E-S-H-830- OEPN-277-SC-FA-FE-EM	LED	05.1	WATTS 277 V	SAME AS TYPE AEXCEPT WITH EMERGENCY BATTERY PACK	16 LBS	3/E0.05
в	FINELITE # HP4P-WWD-x-x-835	LED		WATTS 277 V	SUSPENDED LINEAR WHITEBOARD WALLWASH FIXTURE	16 LBS	3/E0.05
с	FINELITE #HPR LED-A-2X2-DCO-S-835-EM	LED		WATTS 277 V	SURFACE 2X2 LED FIXTURE IN RESTROOMS	20 LBS	2/E0.05
CE	FINELITE #HPR LED-A-2X2-DCO-S-835-EM	LED	,,	WATTS 277 V	SAME AS TYPE C EXCEPT WITH EMERGENCY BATTERY PACK	20 LBS	2/E0.05
⊦⊗	EVENLITE #LEX-20-1/2-6-W-VS				SELF-LUMINOUS LED EXIT SIGN WITH GREEN LETTERS AND WHITE BODY, CEILING OR WALL MOUNTED AS SHOWN ON PLANS AND TAMPER RESISTANT SCREWS	5 LBS	

1/2" = 1'-0"

1" = 1'-0"

## **GENERAL ELECTRICAL NOTES**

3/4" = 1'-0"

- 1. ELECTRICAL CONTRACTOR IS TO PROVIDE LABOR, MATERIALS, TRANSPORTATION, EQUIPMENT, RELATED HAND TOOLS, SPECIAL AND OCCASIONAL SERVICES TO CONSTRUCT AND INSTALL THE COMPLETE ELECTRICAL SYSTEM AS SPECIFIED AND SHOWN ON THE PLANS.
- 2. MOUNTING HEIGHTS SHALL BE A MAXIMUM +48" TO TOP OF BOX OR MINIMUM 15" TO BOTTOM OF BOX PER CBC 1142A. ALL MOUNTING HEIGHTS SHALL BE AS SHOWN ON SYMBOL LIST UNLESS OTHERWISE NOTED ON DRAWINGS.
- 3. BONDING JUMPERS SHALL BE INSTALLED TO INSURE CONTINUITY WHERE CONDUIT CONNECTIONS AT CONCENTRIC KNOCKOUTS ARE TO SERVE AS A GROUND.
- 4. PROVIDE GREEN THWN COPPER GROUND WIRE FROM PANELBOARD GROUND BUS TO ALL BRANCH CIRCUITS.
- 5. THE ELECTRICIAN SHALL CHECK THE TIGHTNESS OF ALL PANELBOARD BUSES AND CIRCUIT BREAKER LUGS. COMPLETELY VACUUM AND CLEAN INTERIOR OF
- EQUIPMENT PRIOR TO TURN OVER TO THE OWNER. 6. ALL NEW AND EXISTING PANELBOARDS AND SWITCHBOARDS SHALL BE PROVIDED WITH NEW TYPEWRITTEN DIRECTORIES TO IDENTIFY THE LOCATION OF EACH LOAD
- SFRVFD. 7. ALL EQUIPMENT SHALL BE U.L. LISTED AND INSTALLED AS PER LISTING OR LABELING (I.E. MAX. FUSE SIZES MEAN FUSE PROTECTION REQUIRED).
- 8. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL LAYOUTS OF ALL LIGHTING FIXTURES AND EQUIPMENT.

MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE CALIFORNIA STATE FIRE MARSHAL.

- 9. CONTRACTOR TO COORDINATE ALL NEW WORK WITH ALL OTHER TRADES FOR A SMOOTH FLOW OF INSTALLATION WORK.
- 10. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO ALL WALLS, FLOORS AND CEILINGS INCURRED DURING ELECTRICAL CONSTRUCTION. IF DAMAGE OCCURS DURING ELECTRICAL CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR TO PATCH, PAINT AND REPAIR TO MATCH EXISTING CONDITIONS.
- 11. COORDINATE EQUIPMENT LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT REQUIRING ELECTRICAL HOOK-UP WITH CONTRACTOR RESPONSIBLE FOR PROVIDING EQUIPMENT AND EQUIPMENT MANUFACTURER DATA SHEETS.
- 12. COORDINATE ELECTRICAL OUTLET LOCATIONS WITH ARCHITECTURAL ELEVATIONS (I.E. CABINETRY). AVOID ALL COUNTER SUPPORTS, AND LOCATIONS BEHIND INACCESSIBLE FIXED CABINETS.
- 13. UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING FIRE AGENCY.
- 14. ALL CORRIDOR AND EXTERIOR WALL PENETRATIONS FOR PIPES, CONDUITS, ETC., IN WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. FIRE STOP
- 15. ELECTRICAL CONTRACTOR SHALL REVIEW MECHANICAL AND PLUMBING CONTRACT DRAWINGS AND VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS, MOTOR SIZES AND CONTROL WIRING REQUIREMENTS WITH MECHANICAL CONTRACTOR AND MECHANICAL EQUIPMENT SUPPLIERS AND MANUFACTURERS PRIOR TO INSTALLATION OF ELECTRICAL CONNECTIONS.
- 16. RECEPTACLES SHALL NOT BE INSTALLED BACK TO BACK AND SHALL BE SPACED 24" APART. WHERE RECEPTACLES CANNOT BE SPACED 24" APART, PROVIDE 3M FIRE RATED PUTTY PADS TO MATCH WALL FIRE RATING.
- 17. PROVIDE AN ISOLATED GROUND WIRE IN ADDITION TO NORMAL EQUIPMENT GROUND IN ALL COMPUTER DEDICATED CIRCUITS.
- 18. ALL CONTROL DEVICES TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA SHALL BE INSTALLED AT A MINIMUM OF 36" C/L, TO A MAXIMUM OF 48" TO TOP OF BOX FROM THE FINISHED FLOOR.
- 19. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND ALTHOUGH THE SIZE AND LOCATIONS OF EQUIPMENT IS SHOWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL MAKE USE OF MANUFACTURER'S OR OWNER'S DATA AVAILABLE AND/OR VERIFY DATA IN THE FIELD FOR PROVIDING AND INSTALLING CORRECT CABLE LENGTHS.
- 20. ALL EQUIPMENT MUST BE LISTED, LABELED, OR CERTIFIED BY A NATIONAL RECOGNIZED TESTING LABORATORY (NRTL).
- 21. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL TRADES TO KEEP ELECTRICAL ROOMS EXCLUSIVELY DEDICATED TO PANELBOARDS, SIGNAL AND OTHER ELECTRICAL EQUIPMENT. NO PLUMBING, PIPING OR MECHANICAL DUCTS SHALL RUN OVER ELECTRICAL PANEL OR OTHER ELECTRICAL EQUIPMENT PER C.E.C. 110-26(f).
- 22. ALL SWITCHES AND RECEPTACLES SHALL BE PROVIDED WITH 'BROTHER' LABELING SYSTEM TO IDENTIFY THE PANEL AND CIRCUIT NUMBER OF EACH OUTLET. COLOR TO BE 3/8" HIGH BLACK ON TRANSPARENT TAPE.
- 23. ALL CABINETS, DISCONNECT SWITCHES, PULLBOXES, AND TERMINAL BOXES SHALL BE PROVIDED WITH LABELING SYSTEM TO IDENTIFY THE PANEL AND ITS USE. SEE SPECIFICATIONS FOR REQUIREMENTS.
- 24. MAINTAIN "AS-BUILT" RECORDS AT ALL TIMES, SHOWING EXACT LOCATION OF ALL UNDERGROUND AND/OR CONCEALED CONDUITS AND SERVICES INSTALLED UNDER THIS CONTRACT, INCLUDING CIRCUIT IDENTIFICATION WHERE APPLICABLE. PROVIDE OWNER WITH "AS-BUILT" DOCUMENTS AS INDICATED IN THE PROJECT MANUAL. 25. DRAWINGS INDICATE THE LOCATION OF DEVICES, FIXTURES AND EQUIPMENT AND THE CIRCUIT NUMBER AND PANEL DESIGNATION WHICH SUPPLIES THEM. THE
- CONTRACTOR SHALL VERIFY WITH ARCHITECT/VENDORS AND COORDINATE ALL LOCATIONS PRIOR TO INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETELY CONNECTING ALL ELECTRICAL DEVICES TO CIRCUITS INDICATED ON THE DRAWINGS.
- 26. ALL EQUIPMENT GROUNDING SHALL CONFORM TO ARTICLE 250 OF THE NATIONAL ELECTRIC CODE, LATEST EDITION.
- 27. ALL EXTERIOR CONDUIT ABOVE GRADE INCLUDING ALL ROOF MOUNTED CONDUIT, SHALL BE RIGID GALVANIZED STEEL, U.O.N. COAT ALL EXPOSED THREADS WITH GALVANIZING PAINT.
- 28. ALL CONDUIT SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
- 29. ALL UNDERGROUND CONDUIT RUNS SHALL BE SEALED TO PREVENT GAS/MOISTURE ENTERING THE PIPE PER ARTICLE 230-8, 300.5 AND 300.50E.
- 30. PROVIDE EXPANSION FITTINGS AND/OR CONDUIT FLEX TO CONDUITS PASSING THROUGH STRUCTURAL EXPANSION JOINT SYSTEM. VERIFY/COORDINATE WITH ARCHITECT FOR LOCATION.
- 31. ALL SIGNAL WIRING/CABLING(TELEPHONE/INTERCOM/DATA/FIRE ALARM/CATV/INTRUSION ALARM SYSTEMS) SHALL BE NEATLY TERMINATED WITH TERMINAL BLOCKS AND LABELED WITH WIRE MARKERS AT ITS CABINETS/PANELS.
- 32. ALL RACEWAY PASSING THROUGH EXPANSION JOINT AREA SHALL BE PROVIDED WITH EXPANSION JOINT FITTINGS AND/OR FLEX CONDUIT AS REQUIRED.
- 33. ALL FIXTURES WITH EMERGENCY BATTERY PACK SHALL BE PROVIDED WITH UNSWITCHED HOT.
- 34. ALL EXTERIOR MOUNTED GFI RECEPTACLE OUTLETS TO BE PROVIDED WITH LOCKABLE COVERS, TAYMAC MX3200.
- 35. FOR POWER AND LIGHTING CIRCUITS, CONTRACTOR SHALL PROVIDE SEPARATE NEUTRAL FOR EACH CIRCUIT IN THE RACEWAY OR PROVIDE BREAKER TIES TO MEET NEC CODE 210.4.
- 36. ALL EQUIPMENT/COMPONENTS/DEVICES INSTALLED OUTDOOR SHALL BE U.L. LISTED FOR WET LOCATION.
- 37. THE CONTRACTOR SHALL VERIFY WITH THE ARCHITECTURAL DRAWINGS ALL LOCATIONS AND DIMENSIONS OF DEVICES/EQUIPMENT PRIOR TO ROUGH-IN.
- 38. ALL EXIT SIGNS SHALL COMPLY WITH SECTIONS 1013 OF THE C.B.C.
- 39. ALL DIVISION 25 EQUIPMENT LOW VOLTAGE CONTROL WIRING SHALL BE PROVIDED AND INSTALLED BY DIVISION 25 U.O.N. PROVIDE CONDUIT WHERE REQUIRED BY DIV 25.
- 40. COORDINATE INSTALLATION OF ALL RECESSED LIGHT FIXTURES WITH DIVISION 15 PRIOR TO INSTALLATION OF HVAC DUCTS AND SPRINKLER HEADS. ENSURE AFTER INSTALLATION OF FIXTURES THAT THERE IS NO CONTACT BETWEEN DUCTS AND FIXTURES TO AVOID VIBRATION IN FIXTURES.
- 41. ALL CONDUIT STUB OUTS AND CONDUITS TERMINATING TO A J-BOX, CABINET, AND THE LIKE SHALL BE PROVIDED WITH INSULATED THROAT. BOX OR CABINET COVER SHALL BE LABELED AS TO USE. 42. MEP COMPONENT ANCHORAGE NOTES:

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT

- REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30. ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE
- 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT. B. COMPONENTS WEIGHING LESS THAN 20 POUNDS OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS. PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS. MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP MD PP E E - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

1 1/2" = 1'-0"

3" = 1'-0"

### **ELECTRICAL SYMBOL LIST** NOTE: DASHED SYMBOLS ON PLANS DENOTE EXISTING DEVICES

	NOTE: DASHED SYMBOLS ON PLANS DENOTE EXISTING DE	VICES	
ם 🗌	LIGHT FIXTURE - SEE FIXTURE SCHEDULE	(E)	EX
ב ב	EMERGENCY LIGHT FIXTURE WITH BATTERY PACK - SEE FIXTURE SCHEDULE	(N)	NE
Ю	WALL MOUNTED LIGHT FIXTURE - SEE FIXTURE SCHEDULE	AL	AL
<u>⊗</u> ⊗l	EXIT SIGN - WALL OR CEILING MOUNT WITH DIRECTIONAL ARROWS WHERE INDICATED SEE FIXTURE SCHEDULE	ANN	AN
S	1PST LIGHT SWITCH +48" U.O.N.	CL	CE
S ₃	3-WAY LIGHT SWITCH, +48" TO TOP OF BOX U.O.N.	CR	CL
Sк	KEYED LIGHT SWITCH +48" TO TOP OF BOX U.O.N.	CU	CC
~		FACP	FI
(OS)	CEILING MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR, WATTSTOPPER LMDC-100	FATC	FIF
00	CEILING MOUNT PHOTO SENSOR, WATTSTOPPER LMLS-400	GFI	GF
DLM	LIGHTING CONTROLLER, SEE LIGHTING DETAILS	GFP	GF
D1	DIMMING SWITCH, WATTSTOPPER #LMSW-SERIES, +48" TO TOP OF BOX	IDF	IN
D2	MULTI-SCENE DIMMING SWITCH, WATTSTOPPER	IG	ISC
M1	WALL MOUNT OCCUPANCY SENSOR, +48" TO TOP OF BOX	IGB	ISC
M2	DIMMING SWITCH WITH OCC SENSOR, LUTRON MS-Z101-XX	MDF	M
⊢ ⊫	20A, 125V, 3W GROUNDING TYPE DUPLEX RECEPTACLE, +18" U.O.N.	MT	EN
₽ ₽		РВ	PL
Ц Ц	20A, 125V, 4W DUPLEX RECEPTACLE, CEILING MOUNTED	RPS	RE
₩	20A, 125V, 3W GROUNDING TYPE, FOURPLEX RECEPTACLE, +18" U.O.N. 20A, 125V, 3W GROUNDING TYPE DUPLEX RECEPTACLE, MOUNTED HORIZONTALLY	SAD	SE
Ψ		STC	SIC
	20A, 125V DUPLEX GFI RECEPTACLE, +18" U.O.N.	TMGB	TE
Þ	20A, 125V DUPLEX GFI RECEPTACLE WITH ONE SWITCHED PLUG	TTB	TE
Ю	SPECIAL RECEPTACLE AS REQUIRED BY EQUIPMENT SPECIFIED	WP	W
ωю	JUNCTION BOX, CEILING OR WALL MOUNTED - SIZED PER CODE	UG	U
©н©	DATA JUNCTION BOX FOR SECURITY CAMERA. WP INDICATES WEATHERPROOF	U.O.N.	١U
_		VIF	VE
AV	AV WALL PLATE	XFMR	TR
D	DUPLEX DATA OUTLET +18" U.O.N.	$\left(\begin{array}{c} A\\ 1\end{array}\right)$	FI) IN
R	FOURPLEX OUTLET +18" U.O.N.	$\langle 1 \rangle$	NU
	TELEPHONE OUTLET +48" TO TOP OF BOX		М
$\bigcirc$	WIRELESS ACCESS POINT	$\overline{1}$	DE
KP	INTRUSION ALARM KEYPAD BACKBOX WITH 3/4" CONDUIT TO IACP LOCATION		

EXISTING NEW ALUMINUM ANNUNCIATOR CENTERLINE CLASSROOM COPPER FIRE ALARM CONTROL PANEL FIRE ALARM TERMINAL CABINET GROUND FAULT INTERRUPTER GROUND FAULT PROTECTION INTERMEDIATE DISTRIBUTION FRAME ISOLATED GROUND ISOLATED GROUND BUS MAIN DISTRIBUTION FRAME EMPTY CONDUIT WITH PULL CORD PULL BOX REMOTE POWER SUPPLY SEE ARCHITECTURAL DRAWINGS SIGNAL TERMINAL CABINET TELECOMMUNICATIONS MAIN GROUNDING BUS BAR TELEPHONE TERMINAL BOARD WEATHERPROOF UNDERGROUND UNLESS OTHERWISE NOTED VERIFY IN FIELD RANSFORMER FIXTURE TAG - LETTER DENOTES TYPE, NUMBERS INDICATE LAMP QUANTITY AND WATTAGE NUMBERED ELECTRICAL NOTE MECHANICAL TAG - LETTER DENOTES TYPE, NUMBER DENOTES EQUIPMENT NUMBER

ΗA INTRUSION ALARM MOTION SENSOR BACKBOX WITH 3/4" CONDUIT TO IACP LOCATION

INTRUSION ALARM KEYCARD

D INTRUSION ALARM DOOR CONTACT

> INTERCOM SYSTEM CLOCK/SPEAKER UNIT PAGING SPEAKER - CEILING OR WALL MOUNTED

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SD

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SнS

FACP FIRE ALARM CONTROL PANEL (FACP)

RPS FIRE ALARM REMOTE POWER SUPPLY

FIRE ALARM SMOKE DETECTOR

VAPE SENSOR

200° FIXED HEAT DETECTOR

135° FIXED HEAT DETECTOR

FIRE ALARM HORN/STROBE, CEILING OR WALL MOUNTED, CANDELA AS NOTED

FIRE ALARM STROBE, CANDELA AS NOTED

ADDRESSABLE MONITOR MODULE

ADDRESSABLE CONTROL RELAY

END OF LINE RESISTOR

DISCONNECT SWITCH - FUSED AS REQUIRED, WEATHERPROOF FOR OUTDOORS, SIZED PER MANUFACTURER'S REQUIREMENTS

MOTOR CONNECTION

THERMAL OVERLOAD SWITCH

MANUAL MOTOR STARTING SWITCH, HORSE POWER RATED WITH OVERLOADS EXISTING CONDUIT

BRANCH CIRCUIT CONDUIT CONCEALED IN WALL OR CEILING

BRANCH CIRCUIT CONDUIT CONCEALED UNDER FLOOR OR UNDERGROUND

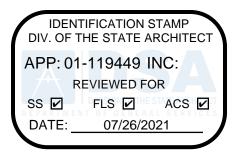
HOMERUN TO PANELBOARD OR OTHER TERMINATION POINT

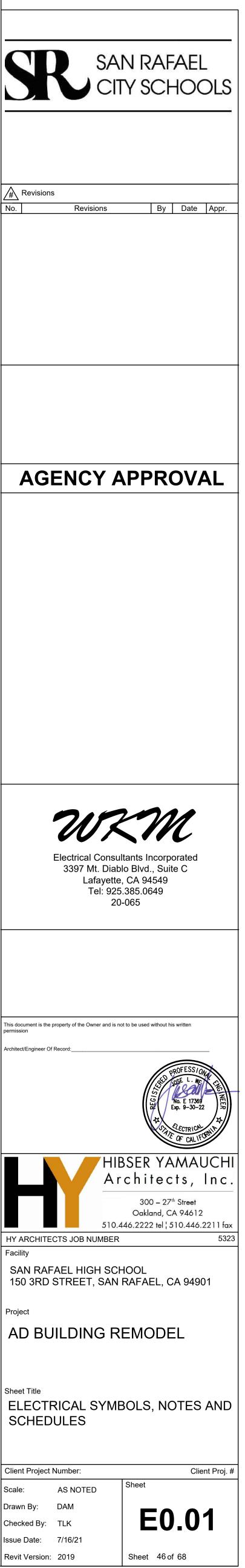
STUB CONDUIT TO ACCESSIBLE SPACE

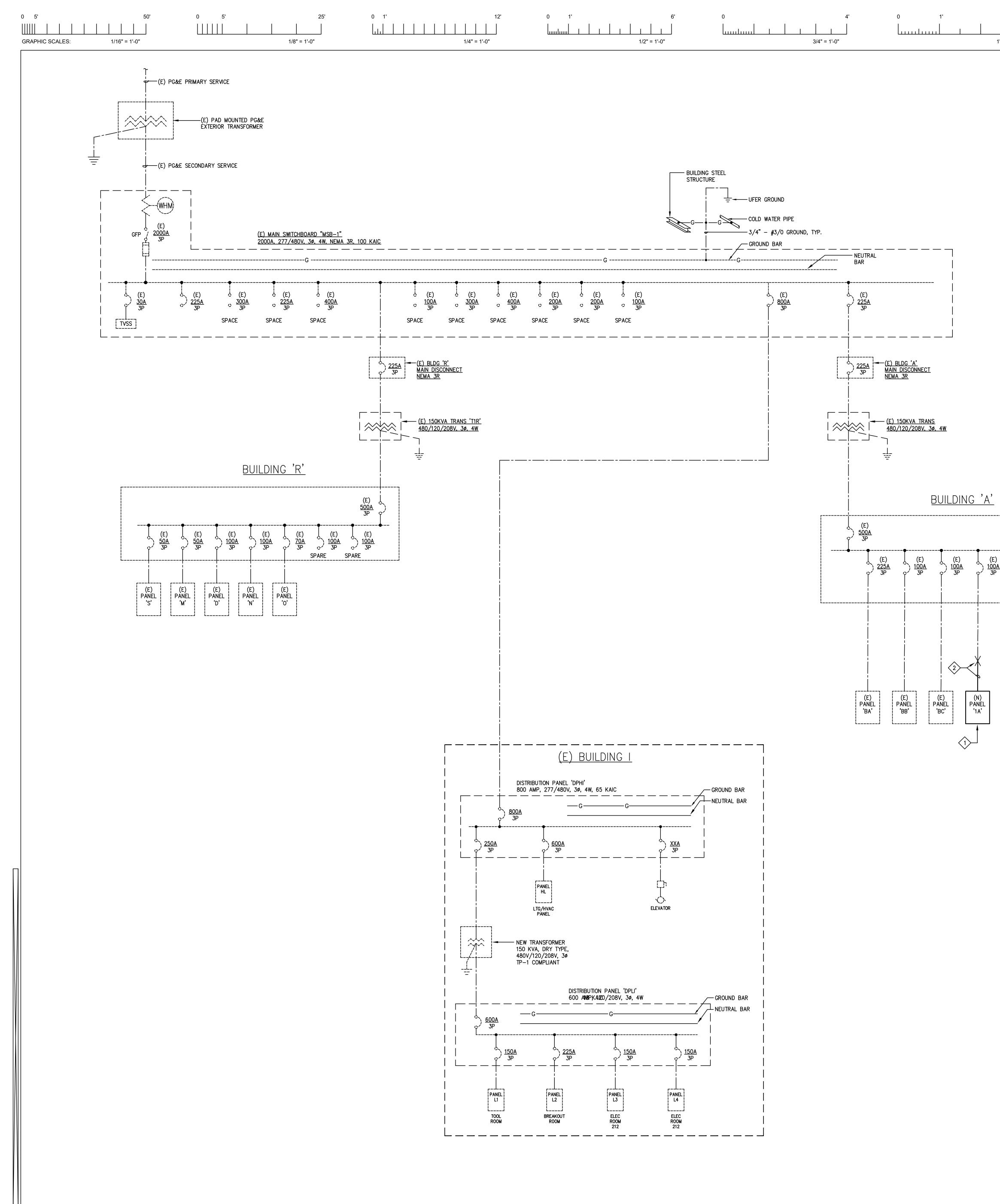
CONDUIT UP 0

CONDUIT DOWN

ANY BRANCH CIRCUIT CONDUIT SHALL BE MINIMUM 3/4"C - 2#12, 1#12 GREEN GROUND UNLESS OTHERWISE NOTED. FOR A GREATER NUMBER OF CODE SIZE CONDUIT) ETC. #8



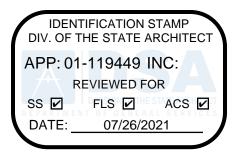


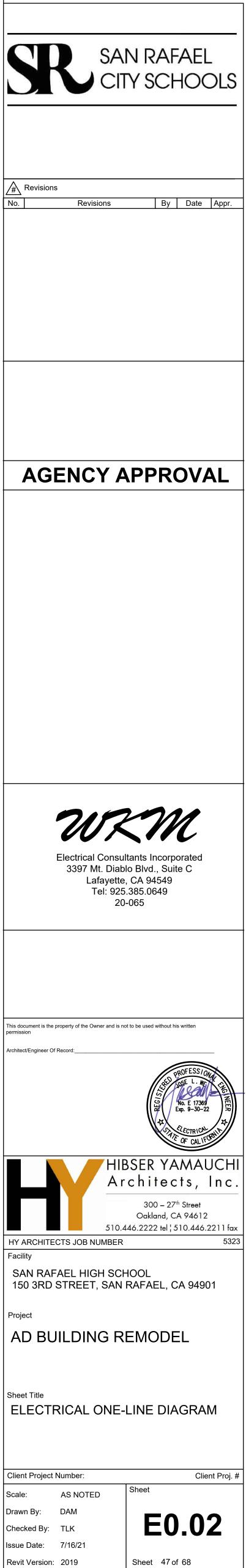


3' 	0 	2' 0 	1' IF THIS SHEET IS NOT 30"x42" , IT IS REDUCED PRINT; SCALE ACCORDINGL 3" = 1'-0"	
			<b>SHEET NOTES</b> EXISTING PANEL TO BE REPLACED WITH NEW.	
		<	INTERCEPT AND EXTEND EXISTING FEEDER WITH 1 1/2" CONDUIT WITH 4#2 AND 1#8 GROUND.	-
,	(E) DISTRIBUTION PANEL 600A, 120/208V, 3ø, 4W			
	/			
(E)	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c c} (E) \\ 100A \\ 3P \\ \end{array} \begin{array}{c} (E) \\ 100A \\ 3P \\ \end{array} \begin{array}{c} (E) \\ 100A \\ 3P \\ \end{array} \end{array} $	(E) ) <u>100A</u> 3P	
(E) PANEL '1B' (E) PANEL '1C'	(E) PANEL '2A' (E) (E) PANEL (E) PANEL (E) PANEL (E) PANEL (E) PANEL (E) PANEL (E) (E) (E) PANEL (E) (E) (E) (E) (E) (E) (E) (E)	(E) ANEL EATER R24		
L] []		R24 j [] [  		
	i S	(E) ANEL EATER R24		
				Th pe Ar

## ELECTRICAL ONE-LINE DIAGRAM

NOT TO SCALE





0 5' 50' GRAPHIC SCALES: 1/16" = 1'-0"

0 5' 1/8" = 1'-0"

0 1' 12' 

		LOAD	(KVA)								LOAD	(KVA)		
DESCRIPTION	LTG.	REC.	RES.	MOT.	СВ	CKT	SN	CKT	CB	LTG.	REC.	RES.	MOT.	DESCRIPTION
E) RECEPTACLE					20/1	1	*	2	20/1					LIGHTING OFFICE
E) RECEPTACLE					20/1	3	*	4	20/1					LIGHTING OFFICE
E) RECEPTACLE					20/1	5	*	6	20/1					LIGHTING OFFICE
E) RECEPTACLE MICROWAVE					20/1	7	*	8	20/1					LIGHTING MAIN THEATER CORRIDOR EXIT
E) RECEPTACLE					20/1	9	*	10	20/1				4.	LIGHTING LOBBY LTS. EXIT
E) RECEPTACLE					20/1	11	*	12	20/1					LIGHTING TECH RM EMERGENCY
E) RECEPTACLE					20/1	13	*	14	20/1					TECH ROOM RECEP
E) COPIER					20/1	<mark>1</mark> 5	*	16	20/1					BATHROOM DRYER BOYS
E) RECEPTACLE					20/1	17	*	18	20/1					SPARE
E) CORRIDOR RECEPTACLE					20/1	19	*	20	20/1					TECH ROOM RECEP
E) FSD					20/1	21	*	22						SPACE
SPARE					20/1	23	*	24						SPACE
SPACE						25	*	26	20/1					TECH ROOM RECEP
SPACE						27	×	28	20/1					MOTOR SAC-A1
SPACE						29	*	30						SPACE
SPACE						31	*	32						SPACE
SPACE						33	*	34						SPACE
SPACE						35	*	36						SPACE
SPACE						37	*	38						SPACE
SPACE						39	×	40						SPACE
SPACE						41	*	42						SPACE
OTAL								-						
/OLTS: 120/208V,3ø,4W M	TG: SURFA	CE												
3US: 100 AMP T	PE:		-						CONN	ECTED	KVA.			
			-								AMPS			-

25'

DESCRIPTION			(KVA)			-				) (KVA)		DESCRIPTION			R	EVI	SED	PAN	IEL	<b>1B</b>							1ST FLOO
CPT	LTG	REC.	RES.		СВ СК 0/1 1	T SN	_	CB 20/1	LTG. REC.	RES.	MOT.	OFFICE LIGHTS					(KVA)							LOAD	(KVA)		
PT		-			0/1 3	*		20/1				OFFICE CORR. LIGHTS	$ \Psi $	DESCRIPTION	LTG	REC.		MOT.	CB C	KT S	N CK	T CB	LTG	REC.		MOT.	DESCRIPTIO
CPT		_			0/1 5			20/1				OFFICE LIGHTS		RECEPTS - STOR, TOILETS		0.70			20/1	1 *	2	20/1	0.70				LTG - TOILETS, BREAKOUT
CPT		-			0/1 7	*		20/1				MAIN CORR.	$\boxed{2}$	RECEPTS - BREAKOUT 1		0.70			20/1	3	* 4	20/1					LTG - CR 4
CPT					0/1 9	*		20/1				SPARE		RECEPTS - BREAKOUT 2		0.70			20/1	5	* 6	20/1					LTG - CR 6
CPT		-			0/1 11			20/1				SPARE		RECEPTS - CR 4		0.70			20/1	7 *	8	20/1					LTG - MAIN CORR.
OPIER		-			0/1 13	1		20/1		-	-	SPARE		RECEPTS - CR 4		0.70			20/1	9	* 1(						SPARE
CPT		-			0/1 15	-		20/1				SPARE		RECEPTS - CR 4		0.70				11	* 12	2 20/1					SPARE
CPT CONF.			<u> </u>		0/1 17	_		20/1				SPARE		RECEPTS - CR 5		0.70			20/1	13 *	14						SPARE
CPT					0/1 19	*		20/1				SPARE		RECEPTS - CR 5		0.70			20/1	15	* 16	3 20/1					SPARE
CPT			-		0/1 21	*	22	20/1				SPARE		RECEPTS - CR 5		0.70			20/1	17	* 18	3 20/1					SPARE
CPT					0/1 23	1		20/1				SPARE		RECEPTS - CR 5		0.70			20/1	19 *		) 20/1					SPARE
PT				_	0/1 25		26	20/1				SPARE		RECEPTS - CR 5		0.70			20/1	21	* 22	2 20/1					SPARE
PARE				2	0/1 27	*	28	20/1				SPARE		RECEPTS - CR 5		0.70			20/1	23		4 20/1					SPARE
PARE				2	0/1 29	(		20/1				SPARE		SPARE					20/1	25 *	26	3 20/1					SPARE
PARE				2	0/1 31	*	32	20/1				SPARE		SPARE					20/1	27		3 20/1					SPARE
PARE			-	2	0/1 33	*		20/1				SPARE		SPARE					20/1	29	* 3(	) 20/1					SPARE
PARE			1	2	0/1 35		* 36	20/1				SPARE		SPARE					20/1	31 *	32	2 20/1					SPARE
PARE				2	0/1 37	*	38	20/1				SPARE		SPARE					20/1	33	* 34						SPARE
PARE			1	2	0/1 39	*	40	20/1				SPARE		SPARE					20/1	35	* 36	3 20/1					SPARE
PARE				2	0/1 41		* 42	20/1				SPARE		SPARE					20/1	37 *	38	3 20/1					SPARE
OTAL																		1.30		39	* 4(	) 20/1					SPARE
	MTG: SURF	ACE							<b>.</b>	•	•	•		BSB AND FC UNITS				1.30	15/2	41	* 42	2 20/1					SPARE
	TYPE:		_					CONNU	ECTED KVA:					TOTAL		8.40		1.30					2.10				
	15		-							15		_		VOLTS: 120/208V,3ø,4W MTG	G: SURF/	ACE											
1AIN:	KAIC:		_					CONN	ECTED AMPS	5:		_		BUS: 100 AMP TYPE	F.		-					CON	VECTE	D KVA:	11	80	
														MAIN: KAIC	10		_						VECTE				

(1) EXISTING CIRCUIT TO BE DISCONNECTED AND RE-USED.

② RECONNECT EXISTING CIRCUIT.

DESCRIPTION		LOAD	(KVA)								LOAD	(KVA)		
DESCRIPTION	LTG.	REC.	RES.	MOT.	СВ	CKT	SN	CKT	CB	LTG.	REC.	RES.	MOT.	DESCRIPTION
RCPT					20/1	1	*	2	20/1					LIGHTS
VIREMOLD					20/1	3	*	4	20/1					OFFICE LIGHTS
WIREMOLD					20/1	5	3	6	20/1					OFFICE/LOUNGE
RCPT					20/1	7	*	8	20/1					LIGHTS
RCPT					20/1	9	*	10	20/1					MAIN CORR. LIGHTS
RCPT					20/1	11	*	12	20/1					MAIN CORR. LIGHTS
RCPT					20/1	13	*	14	20/1					IDF
DF					20/1	15	*	16	05/0					
RCPT					20/1	17	*	18	25/2					EWH-1
COPIER					20/1	19	*	20	500					DANOE
RCPT					20/1	21	*	22	50/2					RANGE
RCPT LOUNGE					20/1	23	*	24	20/1					RANGE HOOD
OPIER					20/1	25	×	26	20/1					FSD
RCPT					20/1	27	*	28	20/1					SPARE
RCPT					20/1	29	3	30	20/1					SPARE
RCPT					20/1	31	×	32	20/1					SPARE
(LS					20/1	33	*	34	20/1					SPARE
SPARE					20/1	35	,	36	20/1					SPARE
SPARE					20/1	37	×	38	20/1					SPARE
SPARE					20/1	39	*	40	20/1					SPARE
SPARE					20/1	41	2	42	20/1					SPARE
TOTAL														
/OLTS: 120/208V,3ø,4W	MTG: SURFA	CE												
	TYPE:		-						CONIN	IECTED	K\/A·			
	KAIC:								CONN					

1/4" = 1'-0"

4'

		NE	W P/	ANE	:L 1	A								1ST FLOOR
DESCRIPTION		LOAD	(KVA) RES.	MOT.	СВ	СКТ	SN	СКТ	СВ	LTG.	LOAD REC.	(KVA) RES.	MOT.	DESCRIPTION
RECEPTS - CR #1	L	0.70	RES.	MOT.	20/1	1	*	2	20/1	0.70	REC.	REO.	WOT.	LIGHTING - CR 3
RECEPTS - CR #1		0.70			20/1	3	*	4	20/1	0.70				LIGHTING - CR 2
RECEPTS - CR #2		0.70			20/1	5	3	6	20/1	0.70				LIGHTING - CR 1
RECEPTS - CR #2		0.70			20/1	7	*	8	20/1					LIGHTING MAIN THEATER CORRIDOR EXIT
RECEPTS - CR #3		0.70			20/1	9	*	10	20/1					LIGHTING LOBBY LTS. EXIT
RECEPTS - CR #3		0.70			20/1	11	1	12	20/1					LIGHTING TECH RM EMERGENCY
SPARE					20/1	13	*	14	20/1					TECH ROOM RECEP
SPARE					20/1	15	*	16	20/1					BATHROOM DRYER BOYS
SPARE					20/1	17	1	18	20/1					SPARE
E) CORRIDOR RECEPTACLE					20/1	19	*	20	20/1					TECH ROOM RECEP
E) FSD					20/1	21	*	22	20/1					SPARE
SPARE					20/1	23	3	24	20/1					SPARE
SPARE					20/1	25	*	26	20/1					TECH ROOM RECEP
SPARE					20/1	27	*	28	20/1					MOTOR SAC-A1
SPARE					20/1	29		30	20/1					SPARE
SPARE					20/1	31	*	32	20/1					SPARE
SPARE					20/1	33	*	34	20/1					SPARE
SPARE					20/1	35	1	36	20/1					SPARE
SPARE					20/1	37	*	38	20/1					SPARE
3SB AND FC UNITS				1.30	15/2	39	*	40	20/1					SPARE
550 AND 1 0 01113				1.00	10/2	41	3	42	20/1					SPARE
FOTAL		4.20		1.30						2.10				
VOLTS: 120/208V,3ø,4W	MTG: SU	RFACE												
BUS: 100 AMP	TYPE:		-						CONN	IECTED	KVA:	7.	60	
MAIN:	KAIC:		-						CONN	ECTED	AMPS	21	.11	-

PANEL NOTES:

(1) RECONNECT EXISTING CIRCUIT.

PANEL NOTES:

(1) INSTALL NEW BREAKER.

3'

2' 0

3" = 1'-0"

1ST FLOOR

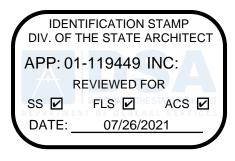
### IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT; SCALE ACCORDINGLY

DESCRIPTION		LOAD	(KVA)								LOAD	(KVA)		DESCRIPTION
DESCRIPTION	LTG.	REC.	RES.	MOT.	CB	CKT	SN	CKT	СВ	LTG.	REC.	RES.	MOT.	DESCRIPTION
DOAS AD301, 305, 307, 309				5.70	50/2	1	*	2						
				0.10	00/L	3	*	4	30/3				6.00	AH-A2
SPACE						5	*	6						
						7	*	8						
HV-A6				3.30	30/3	9	*	10	30/3				3.00	HV-A5
						11 13	*	12 14						
MOTOR				6.00	30/3	15	*	14	30/3					HRU-1A (38.1 MCA)
MOTOR				0.00	00/0	17	*	18	00/0					
						19	*	20						
AH-A3				6.00	30/3	21	*	22	30/3					HRU-1A (38.1 MCA)
						23	*	24						
						25	*	26						
AH-A4				7.60	30/3	27	*	28	30/3					HV-A1
						29	*	30						
						31	*	32						
SF-A1				6.00	30/3	33	*	34	30/3				6.00	AH-A2
						35	*	36						
						37	*	38	20/1		1.00			FIRE ALARM
AC-A5				13.90	60/3	39	*	40	20/1		1.00			ROOF GFI'S
						41	*	42						SPACE
TOTAL				48.50							2.00		15.00	
VOLTS: 120/208V,3ø,4W	ITG: SURFA	CE	•											
BUS: 600 AMP T	YPE: SIEMEN	IS							CONN	IECTED	KVA:	65	.50	
MAIN: 500 AMP MB K	(AIC: (E)		-						CONIN	ECTED		10	1.94	-

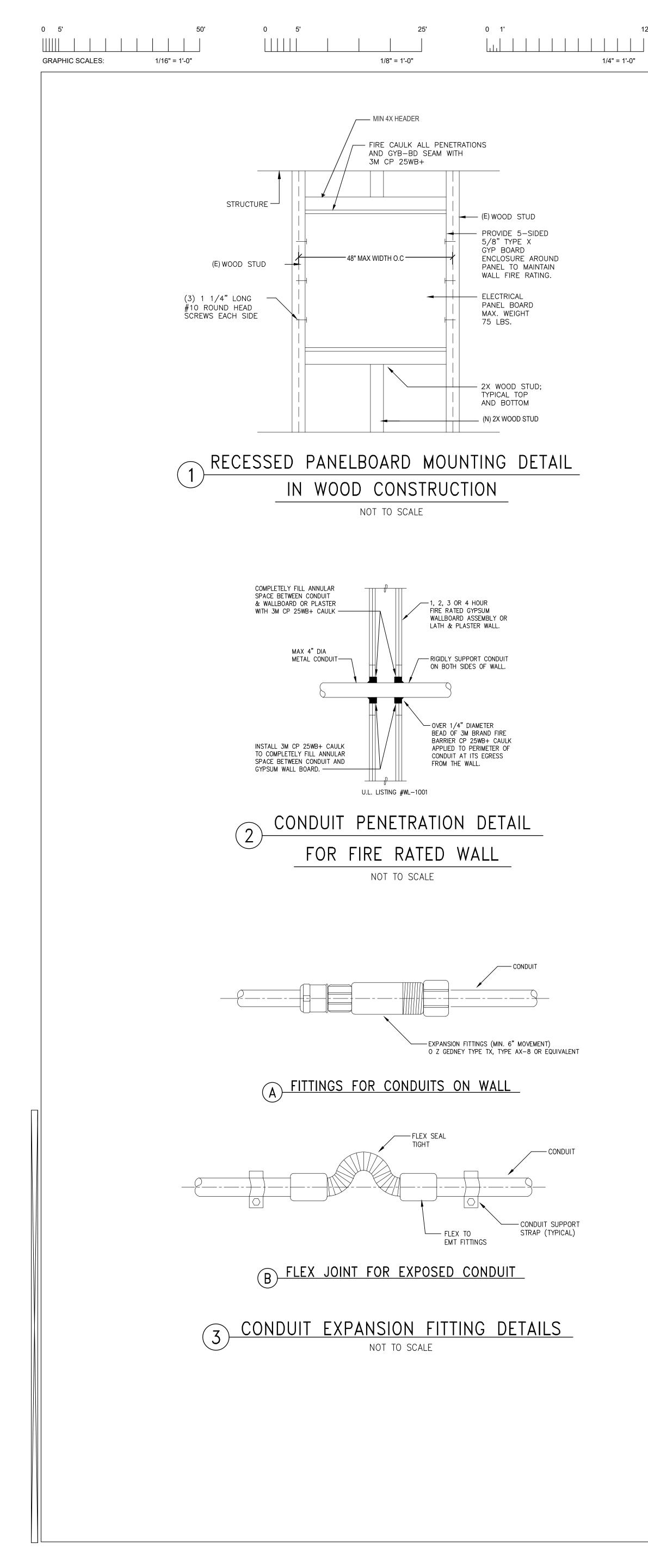
### EXISTING PANEL BC1

### LOAD (KVA) EVANOV <th EVA DESCRIPTION DESCRIPTION RECEPTACLE RECEPT - NOTIFIER ECEPTACLE RELAY 14 TRANS VAULT ET BOILER SUMP PUMP BOILER CIRC PUMP PUMP 16 STARTER PUMP AIR COMPRESSOR CU-1 SPACE SPACE SPACE SPACE \_\_\_\_\_ SPACE TOTAL VOLTS: 120/208V,3ø,4W MTG: SURFACE TYPE: CONNECTED KVA: BUS: KAIC: (E) CONNECTED AMPS: MAIN: \_\_\_\_\_\_

DEGODIDITION			LOAD	(KVA)								LOAD	(KVA)		DECODURTION
DESCRIPTION		LTG.	-		MOT.	CB	CKT	SN	CKT	CB	LTG.	REC.	RES.	MOT.	DESCRIPTION
							1	*	2						SPACE
AC-1						/3	3	*	4	12					CU-2
							5	3	6	12					00-2
							7	*	8						
EF-A2						/3	9	*	10	/3					AC-2
							11	*	12						
PUMP 1						/3	13 15	*	14 16	/3					AC-3
						10	17	3	18	10					/10-0
							19	*	20						
PUMP 2						/3	21	*	22	/3					PUMP 15 STARTER
							23	3	24						
							25	*	26						
AH-A2						/3	27	*	28	/3					PUMP 14 STARTER
							29	3	30						
							31	* *	32						
							33 35	,	34 36	-				-	
							37	*	38						
							39	*	40						
							41	,	42						
TOTAL							•	•	•						
VOLTS: 120/208V,3ø,4W	MTG:	SURFA	CE												
BUS: AMP	TYPE:	SIEME	VS	-						CONN	ECTED	KVA:			
MAIN: AMP MB	KAIC:			-							ECTED				-





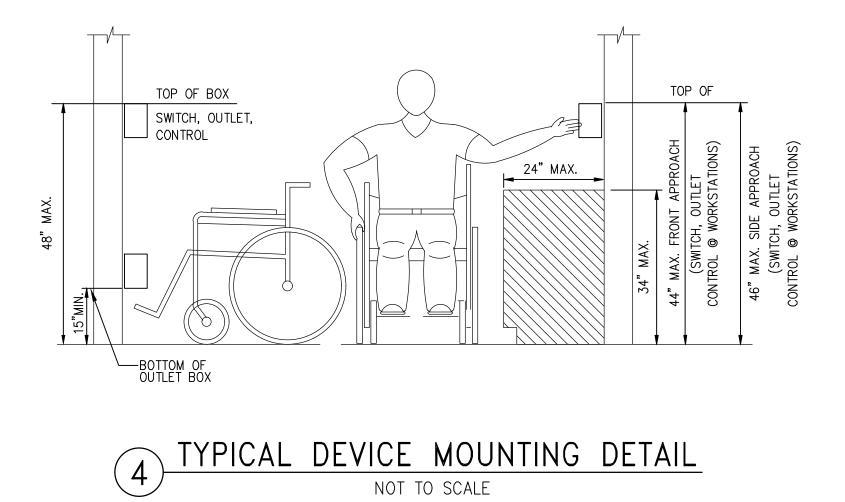


1/2" = 1'-0"

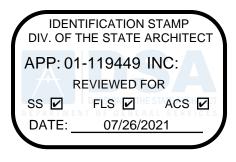
12'

4'

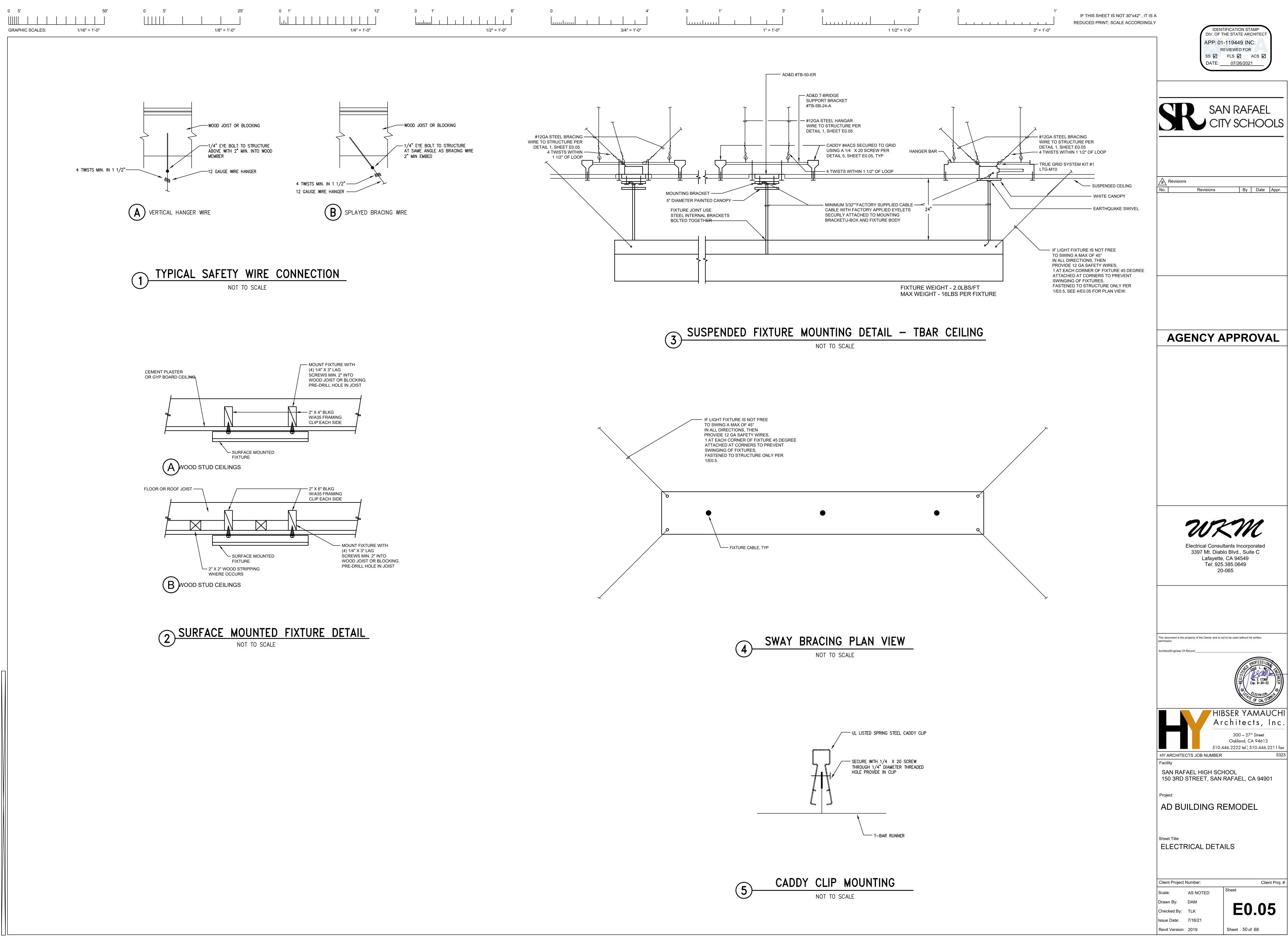
1'

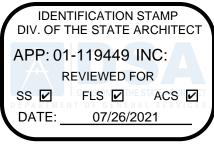


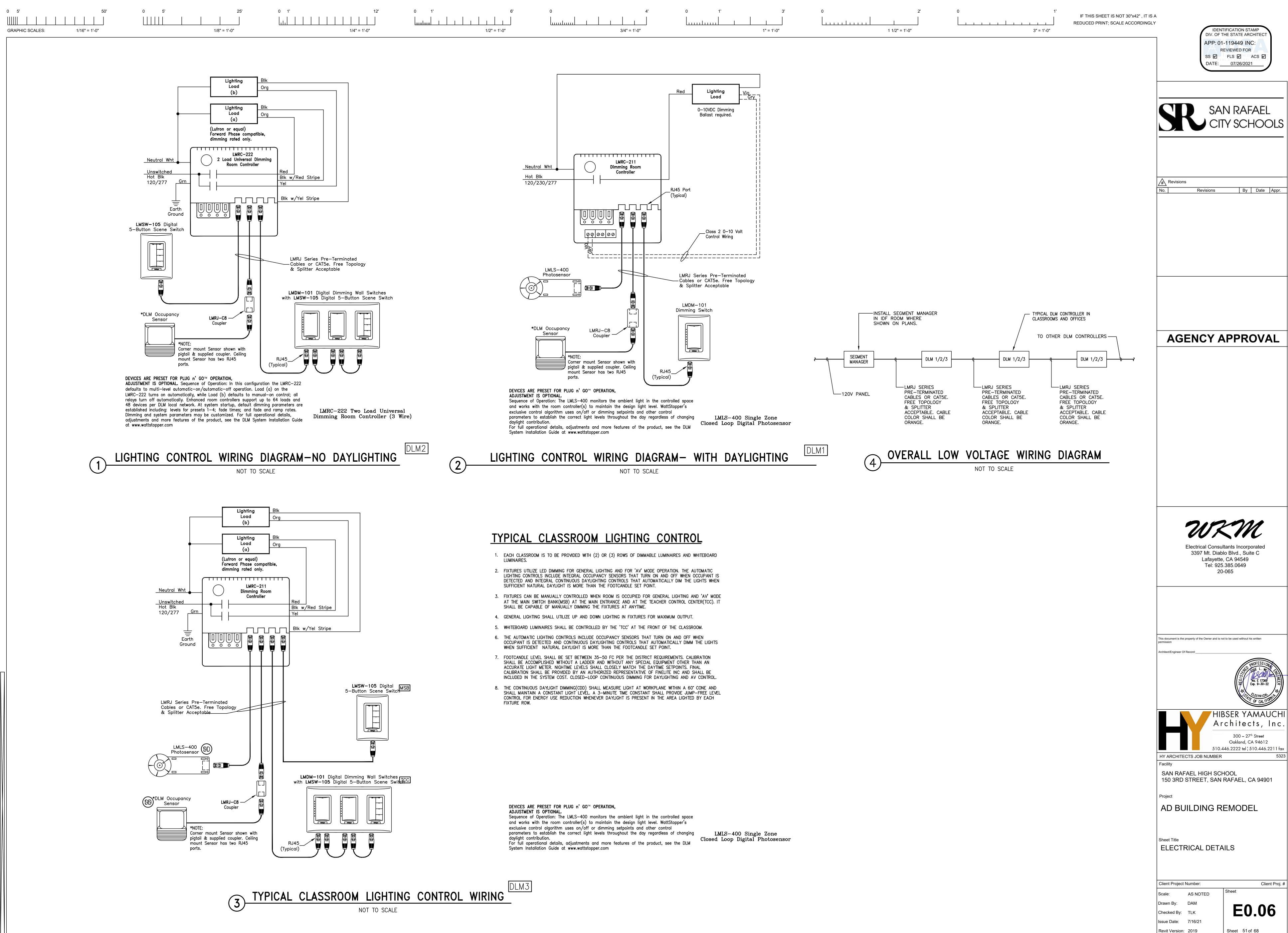
3' 	0 2'  1 1/2" = 1'-0"	0 1	IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT; SCALE ACCORDINGLY

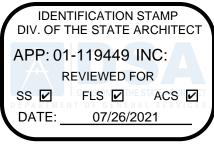


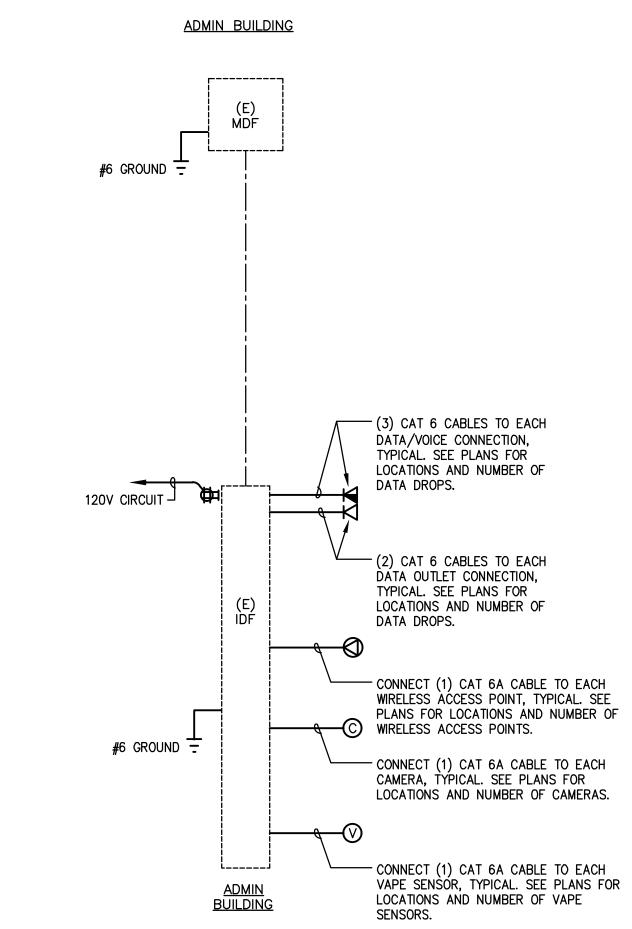






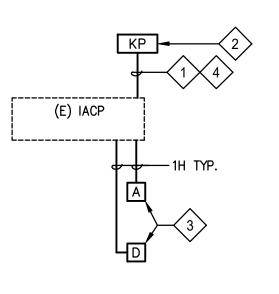






## \_\_\_ DATA/TELEPHONE DISTRIBUTION RISER DIAGRAM

NOT TO SCALE

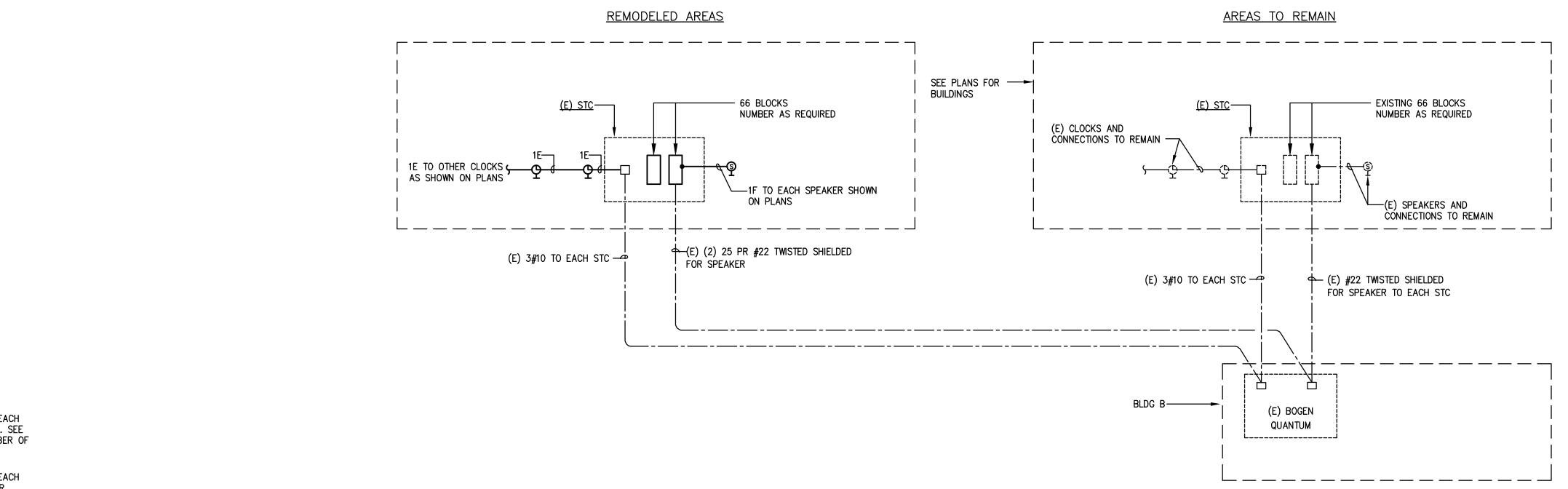


## **DETAIL NOTES:**

WEST PENN 244 FROM KEYPAD TO INTRUSION ALARM CONTROL PANEL. 2 NEW KEYPAD.  $\langle 3 \rangle$  door contact or motion sensor. 4 2#14 FOR POWER.

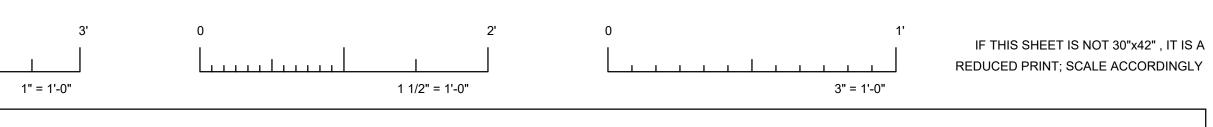


12'	0 1'	6'	0	4'	0	1'	
= 1'-0"	1/2" = 1	'-0"		3/4" = 1'-0"			



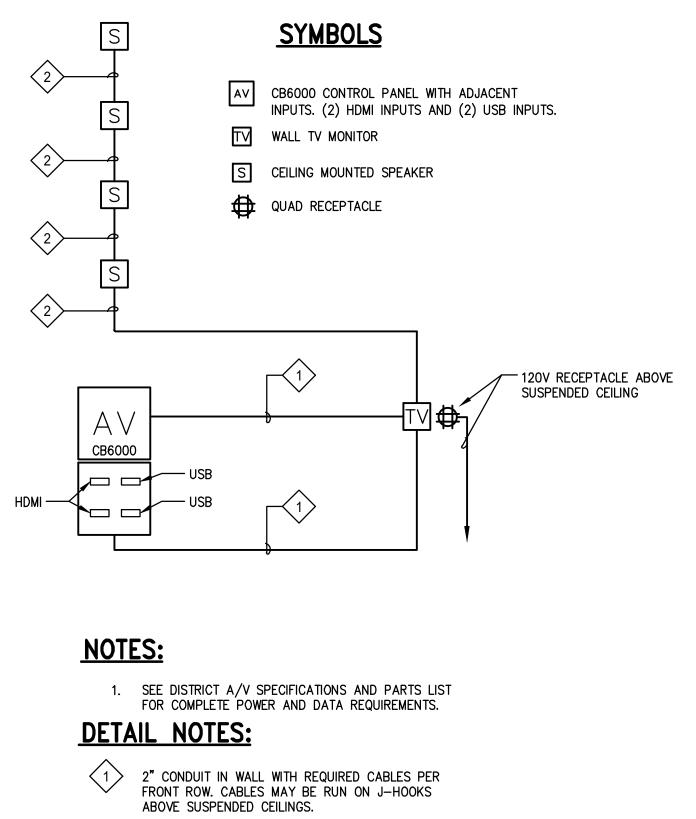
2

CLASSROOM AV SYSTEM SCHEDULE FRONTROW ezRoom AV system (provide a duplex receptacle for the plenum switcher) Media Source Control CB6000 Touch Screen Control Panel (Requires a double-gang electrical box) Speakers Frontrow Lay-in speakers Frontrow WP-PC Frontrow WP-HDMI Media Source Interfacing Priority Pager Sensor Frontrow TB13 Wireless Microphone Frontrow Microphones package includes: 1) Pendant Microphone ITM-02(1) Handheld Midrophone system ISM-01 Charging Station Receiver ICM-01





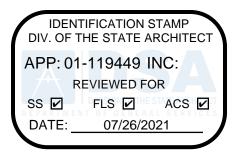
NOT TO SCALE



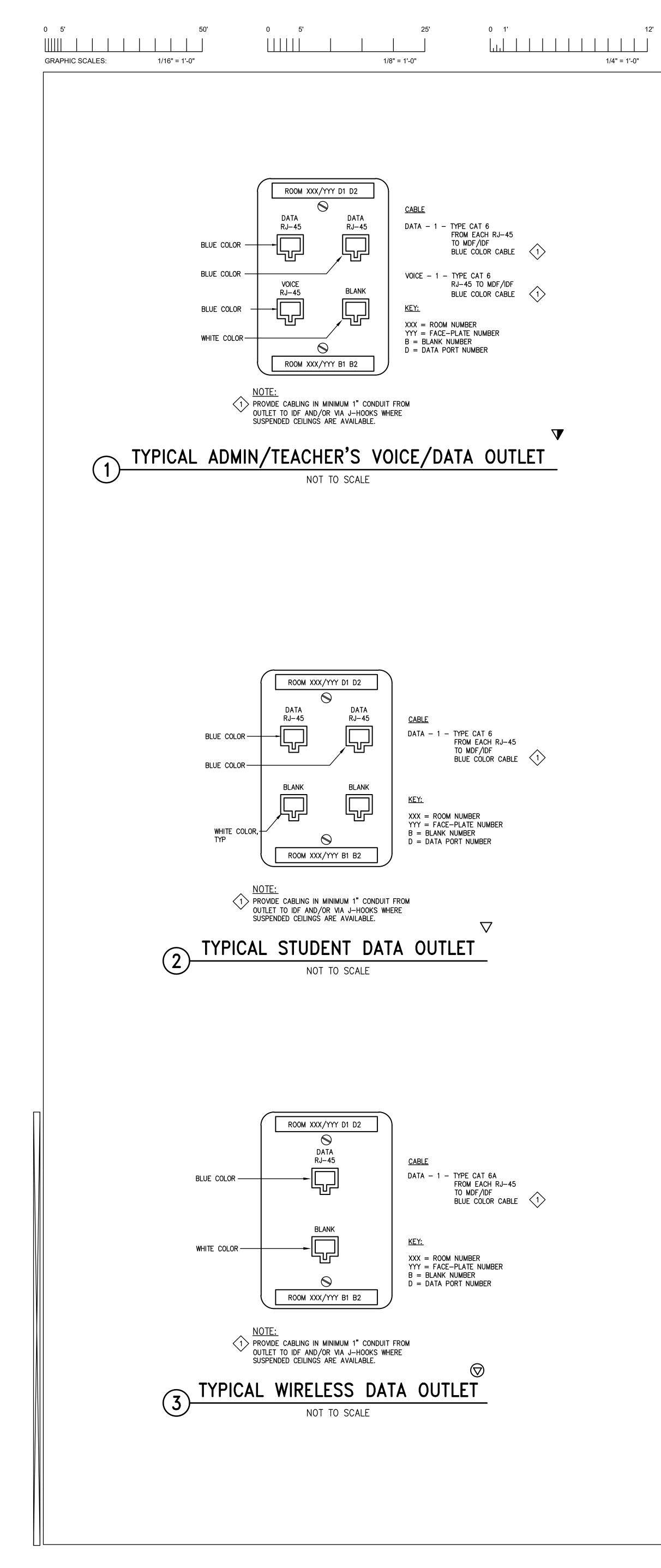
2 3.5MM AUDIO CABLES. CABLES MAY BE RUN ON J-HOOKS ABOVE SUSPENDED CEILINGS.

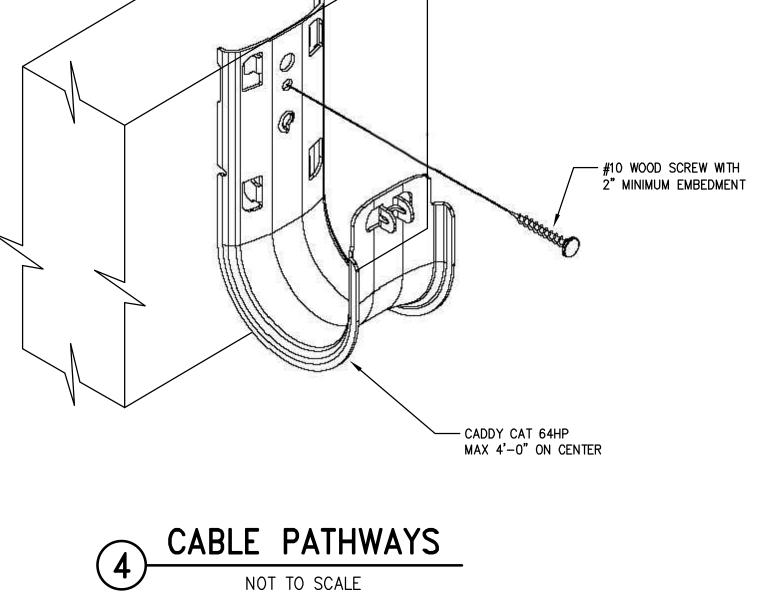
FRONT ROW RISER DIAGRAM NOT TO SCALE

4-



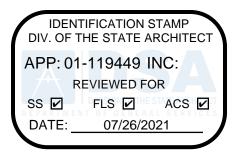






NOT TO SCALE

3'  1" = 1'-0"	0 	2' 0 ]	1' 	IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT; SCALE ACCORDINGLY





0 5'								50'
GRAPH	IIC SO	CALE	S:		1/	16" =	1'-0"	

0 5' 25' 

1/8" = 1'-0"

0 1' 12' 1/4" = 1'-0"

This document is used prescriptive path. Project Name: SAN		H SCHOOL, AD	-	ts in <u>9110.9, 911</u>	<u>.0.12(c), 9130</u>	Report		na <u>9141.0</u>	<u>)(b)2</u>	or indoor ligi	nting scopes i
Project Address: 150							repared:				
A. GENERAL INFORM			SAN RA	λεαει	04 To	tal Con	ditioned Floor	Area (ft <sup>2</sup>	2)		5,520
02 Climate Zone			3		05 To	tal Unco	onditioned Flo	oor Area (	(ft <sup>2</sup> )		
03 Occupancy Types	es Within Proj	ect (select all t Retail		/arehouse		of Storie	es (Habitable /	Above Gra			1 Support
Parking Garage		High-Rise Re	sidential 🗌 Re	elocatable	H	ealthca	re [	Other	r (write	e in):	
<b>B. PROJECT SCOPE</b> Table Instructions: Inc. <u>§140.6</u> or <u>§141.0(b)2</u> j calculation method, pl	clude any ligh for alteration	s. WARNING:	Changing the Calcu								
	-	of Work			Condition	ned Spa	03			<b>Unco</b> 04	nditioned Sp
		f (check all tha	at apply):	Calcu	ulation Metho	bd	Area (f	t <sup>2</sup> )	C	Calculation N	/lethod
New Lighting Syst											
✓ Altered Lighting S	System			A	rea Category		5,520	)			
		То	otal Area of Work (1	ft²)	5,	520					
C. COMPLIANCE RES		i			with English		1:1:	t. T	D fam		
Table Instructions: If a	any cell on thi		ting Power per §14		-		Adjusted Ligi			-	Watts) C
Lighting in conditioned and	01	02	03	04	05		06	0 Adjust	-	_	08
spaces must not	Complete Building	Area Category	Area Category Additional	Tailored §140.6(c)3 =	Total Allow	≥	Total Designed	PAF Co Cree	ontrol	Total A	djusted atts)
compliance per	§140.6(c)1	<u>§140.6(c)2</u>	<u>§140.6(c)2G</u> (+)	(+)	(Watts)	eu	(Watts)	<u>§140.</u>	.6(a)2	*Inc	ludes
<u>§140.6(b)1</u> . (Se	See Table I)	(See Table I)	(See Table J) (	(See Table K)			(See Table F)	(- See Ta	-		tments
Conditioned: Unconditioned:		3,864		=	3,864	≥ ≥	3,524			= 3,	524
				-	•					-	
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					1	1/2" =	= 1'-(	)"	

6'

0			4'
		3/4" =	1'-0"

4'

1" = 1'-0"

Project Nan	E OF COMPLIANCE ne: SAN RAFAEL HIGH SCHOOL,	ADMIN BLDG			Report Page:				
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			Rated I		rols Compliance (S tion Compliance (S		-	DOES NOT C Not Appli	
	auto-filled with uneditable comm						explanation.		
	DNAL REMARKS				-				
	ncludes remarks made by the perm	it applicant to th	ne Authority Havin	g Jurisdiction.					
F. INDOOF	R LIGHTING FIXTURE SCHEDULE	:							
	uctions: Include all permanent desi Vattage: Conditioned Spaces	gned lighting an	d all portable light	ting in offices.					
01	02	03	04	05	06	07	08	09	Field
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change <sup>1</sup>	Watts per luminaire <sup>2</sup>	How Wattage is determined	Total number luminaires	Exempt per <u>§140.6(a)3</u>	Design Watts	Pass
A	SUSPENDED LINEAR SUSPENDED WALLWASH			37 37	Mfr. Spec <sup>2</sup> Mfr. Spec <sup>2</sup>	72 20		2,664 740	
C	SURFACE 2X2			20	Mfr. Spec <sup>2</sup>	3		60	
D	RECESSED 2X2			20	Mfr. Spec <sup>2</sup>	3 d Watts CONDIT	IONED SPACES:	60 : 3,524	
_	Energy Efficiency Standards - 2019 Nor	nresidential Compl	liance: <u>http://www.</u>	energy.ca.gov/1	title24/2019standard	<u>ls</u>			Nov
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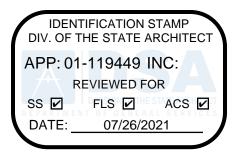
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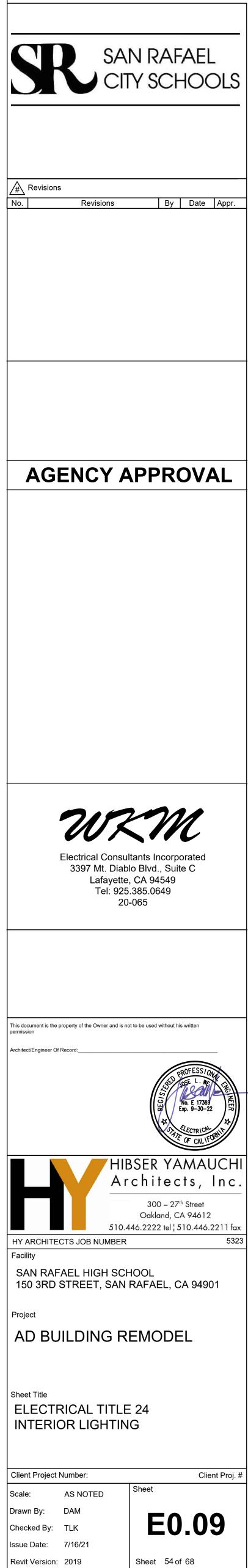
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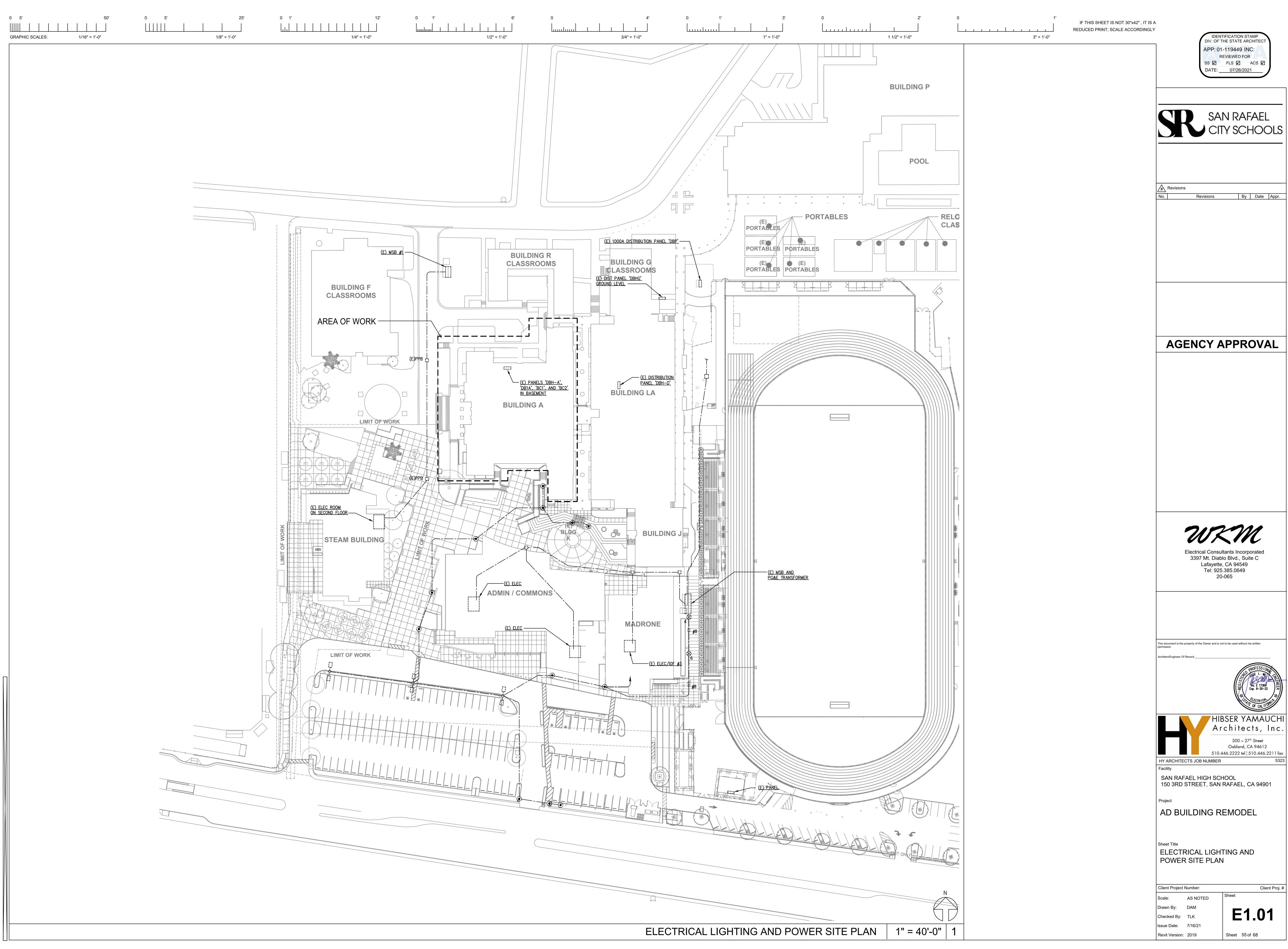
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Area Description	•	Building or Area Category	Area Controls	Multi-Level Controls	Shut-Off Controls	Primary/Skylit Daylighting	Secondary Daylighting	Interlocked Systems	Field Ir	nspector
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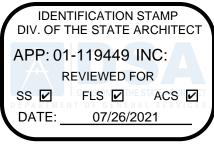
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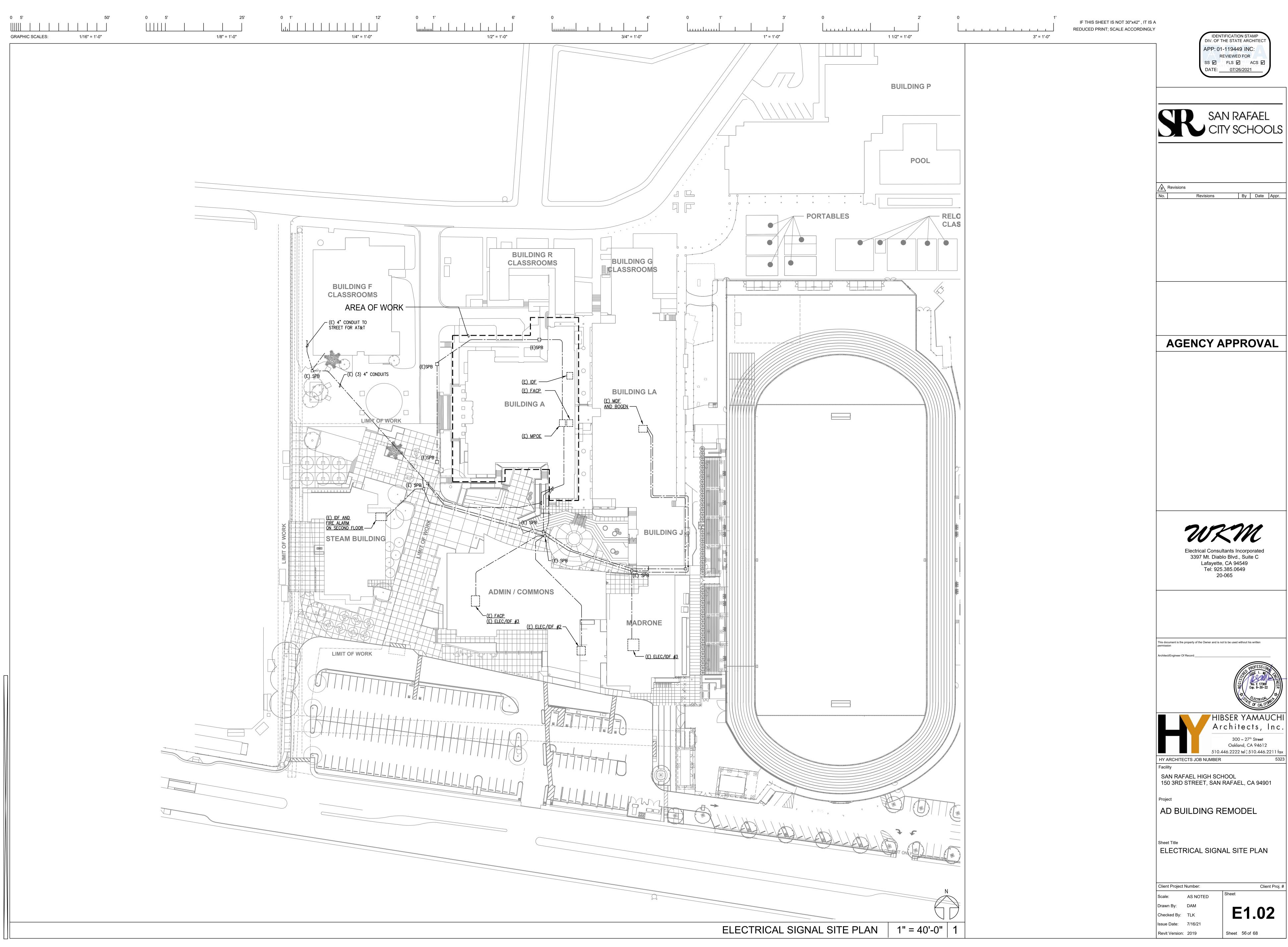
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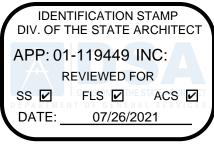


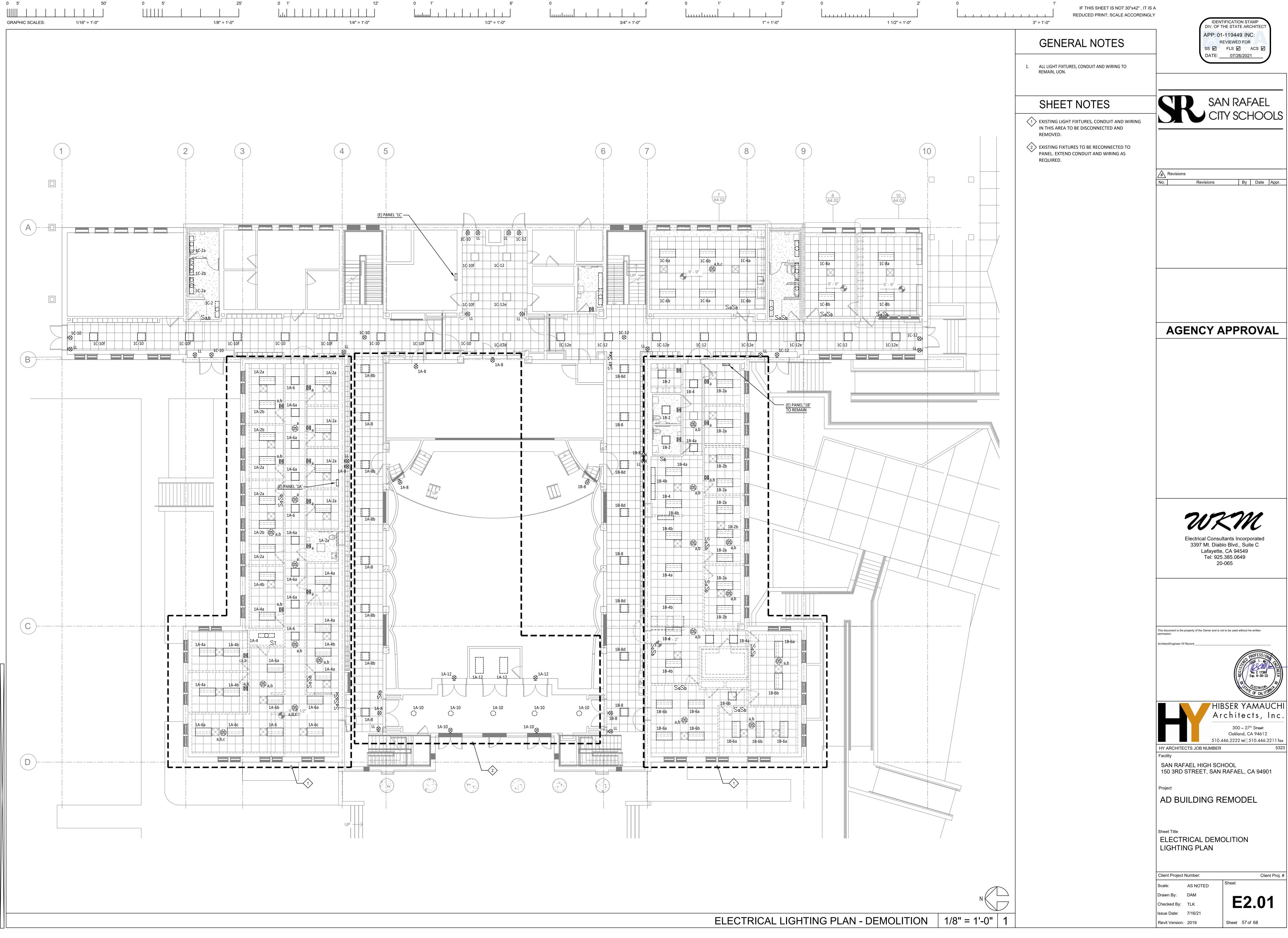


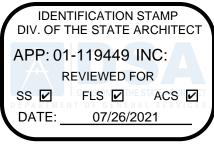


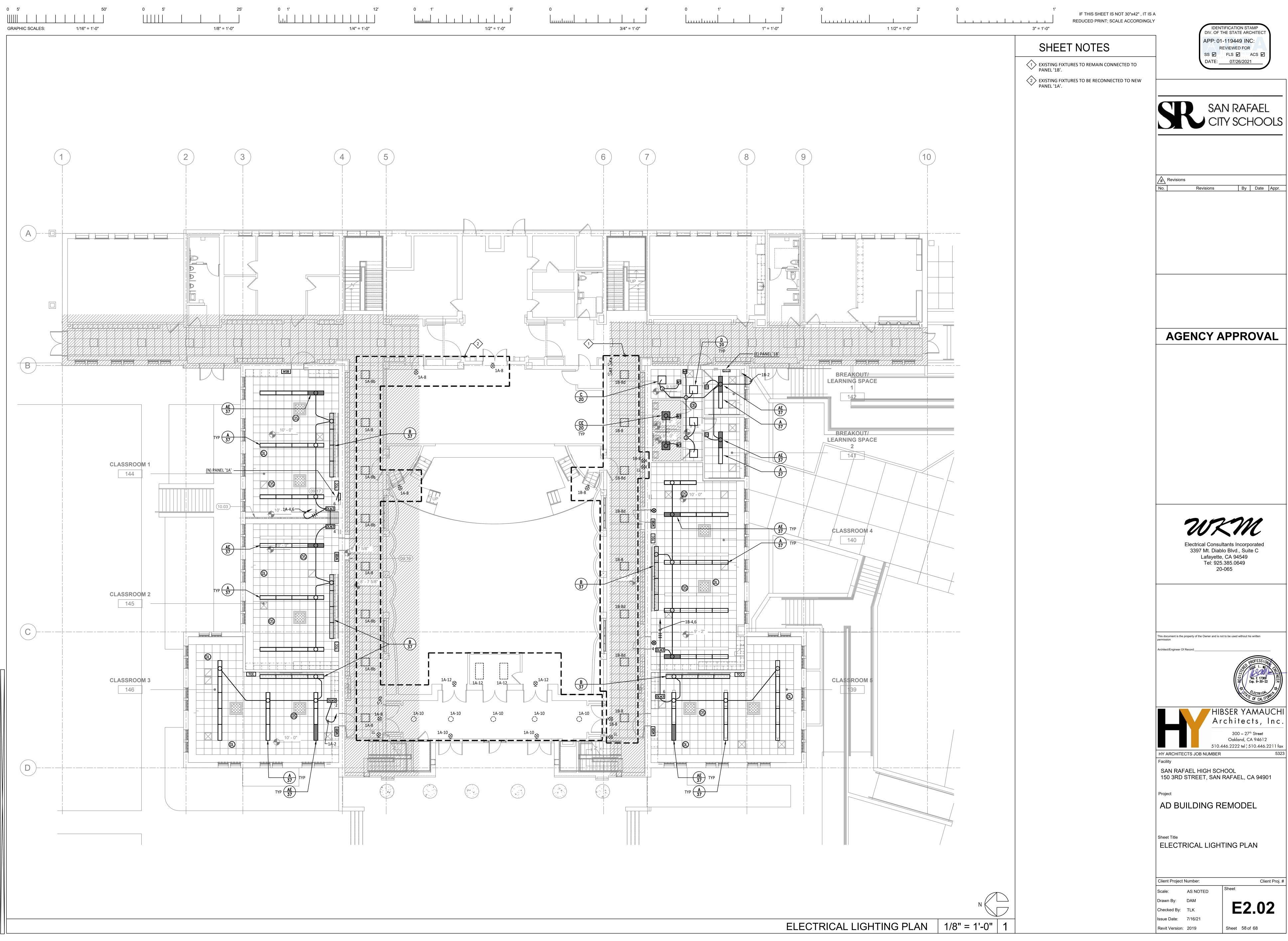


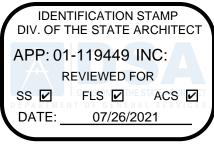


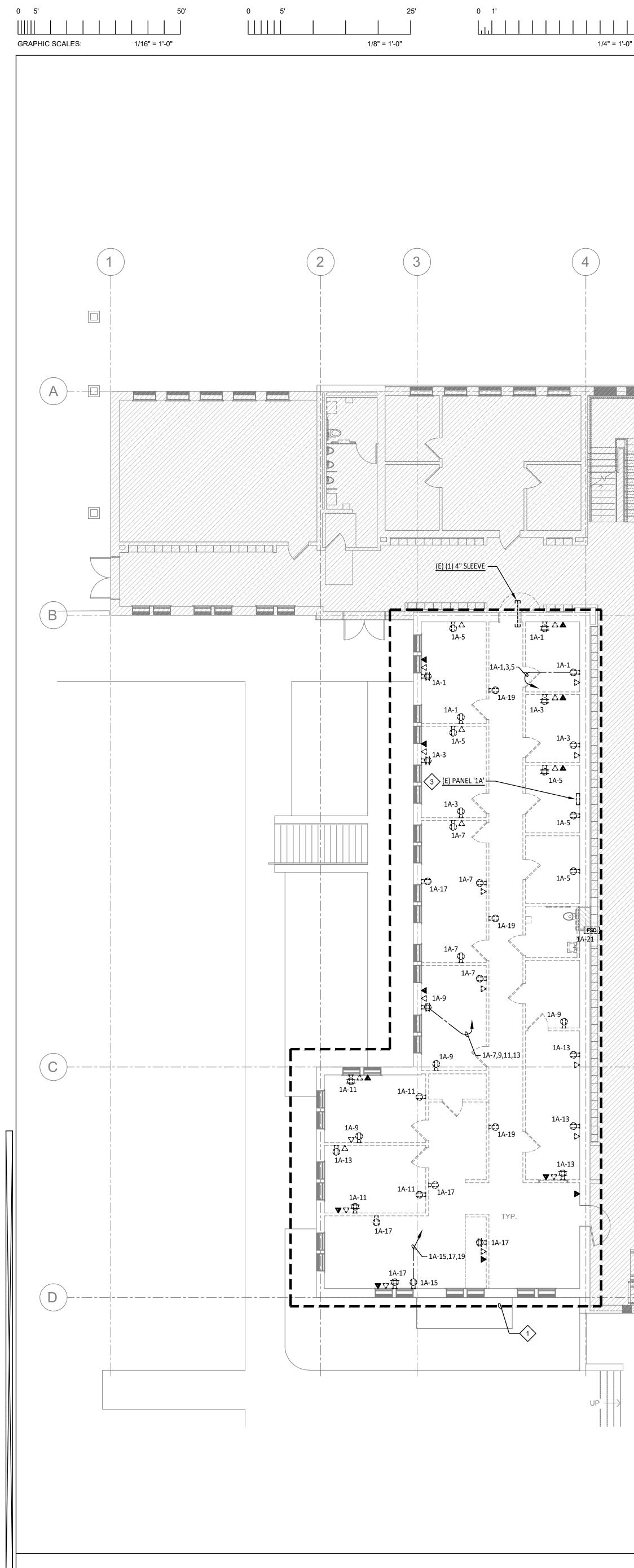












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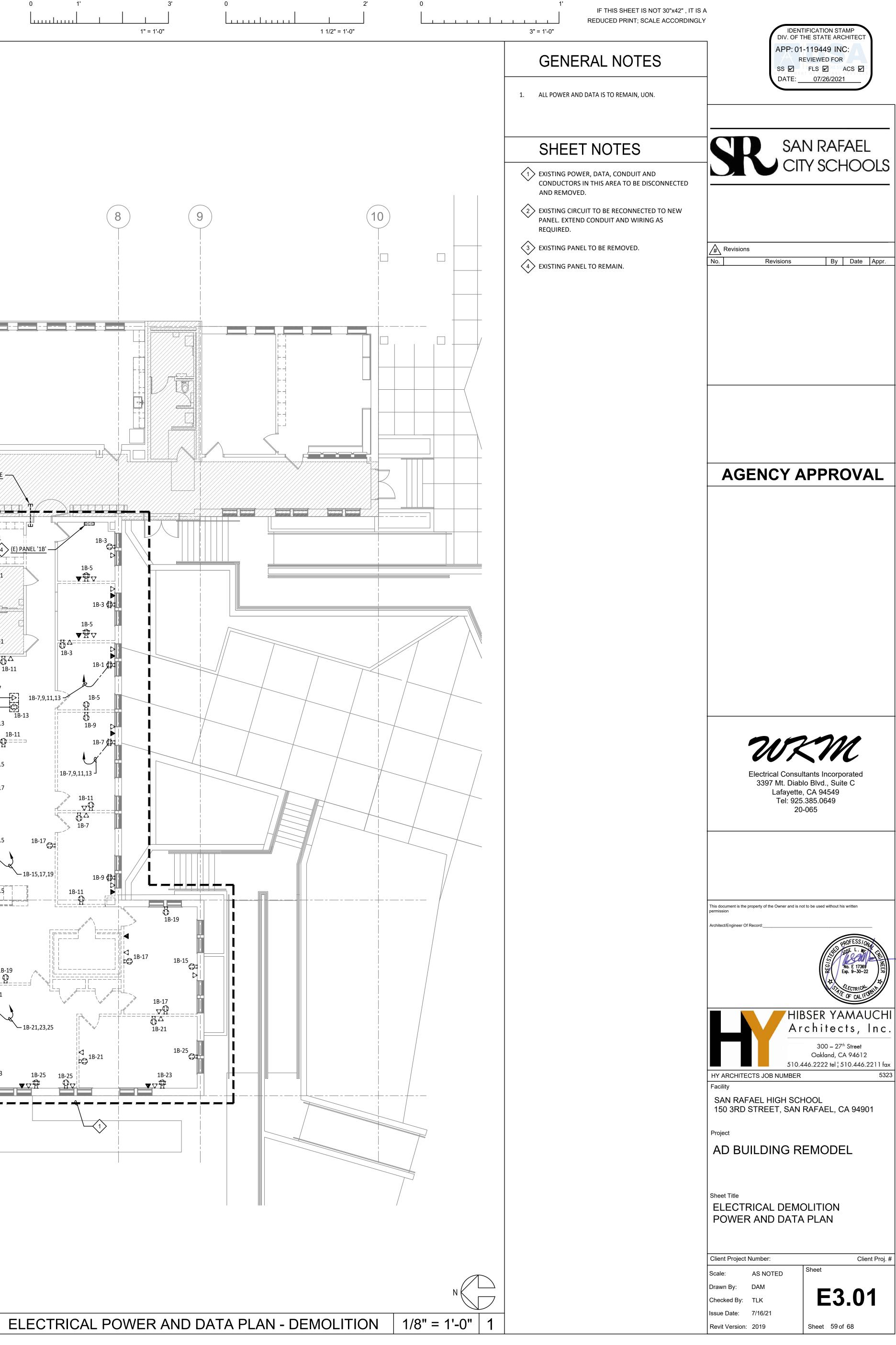
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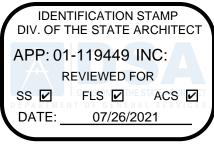
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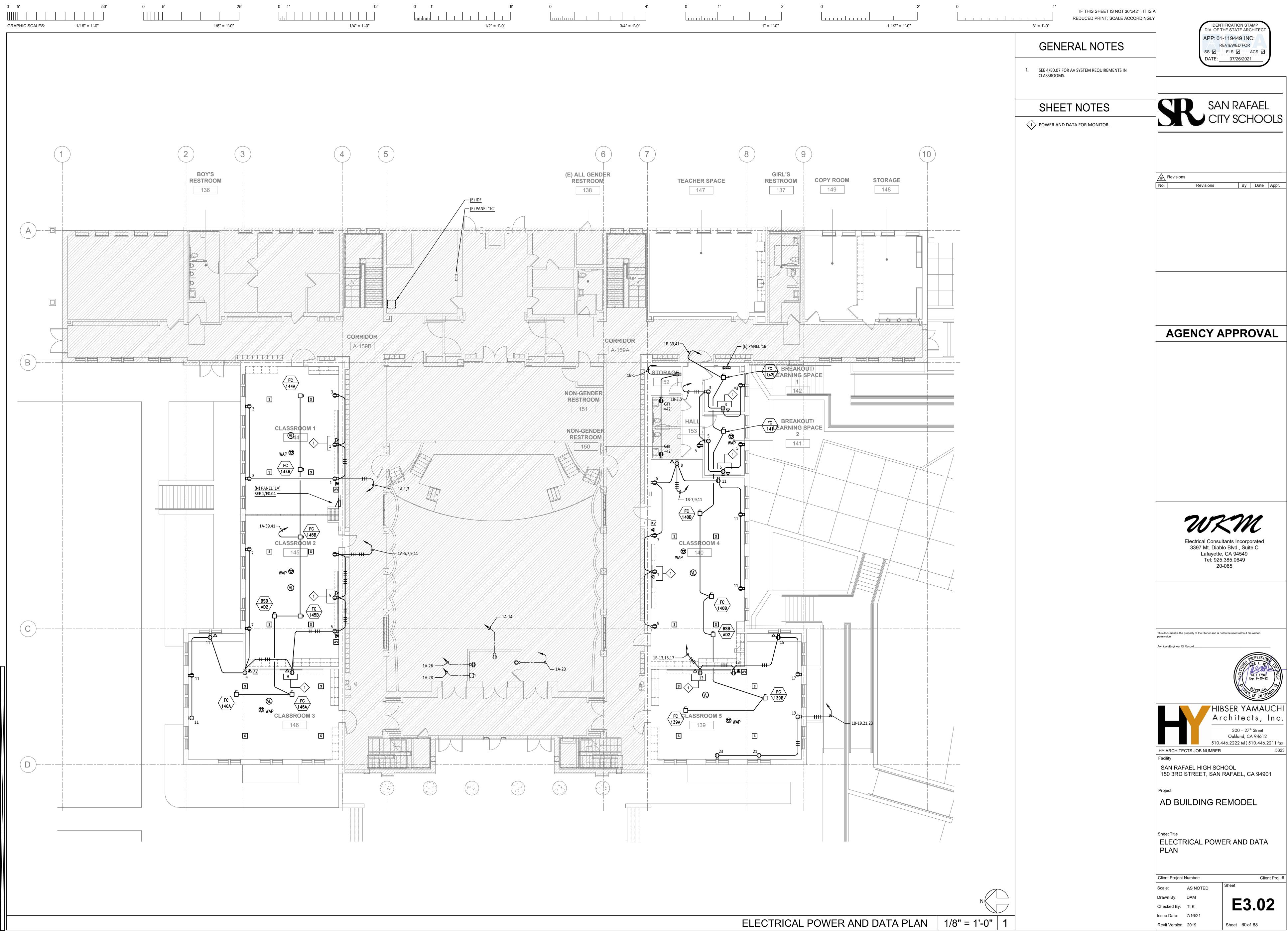
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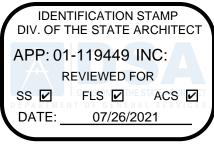
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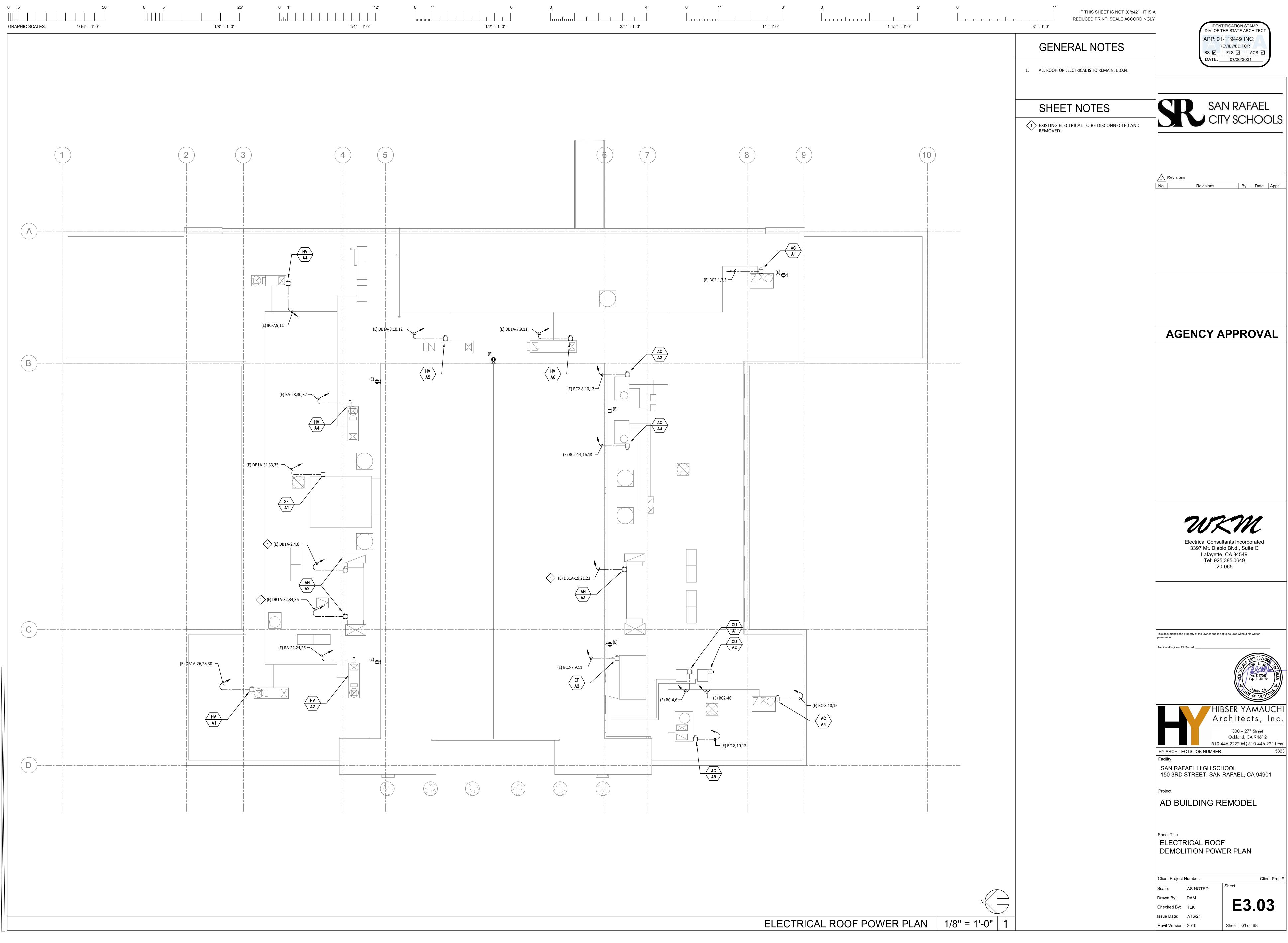
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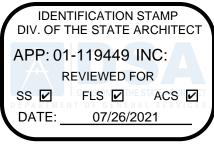


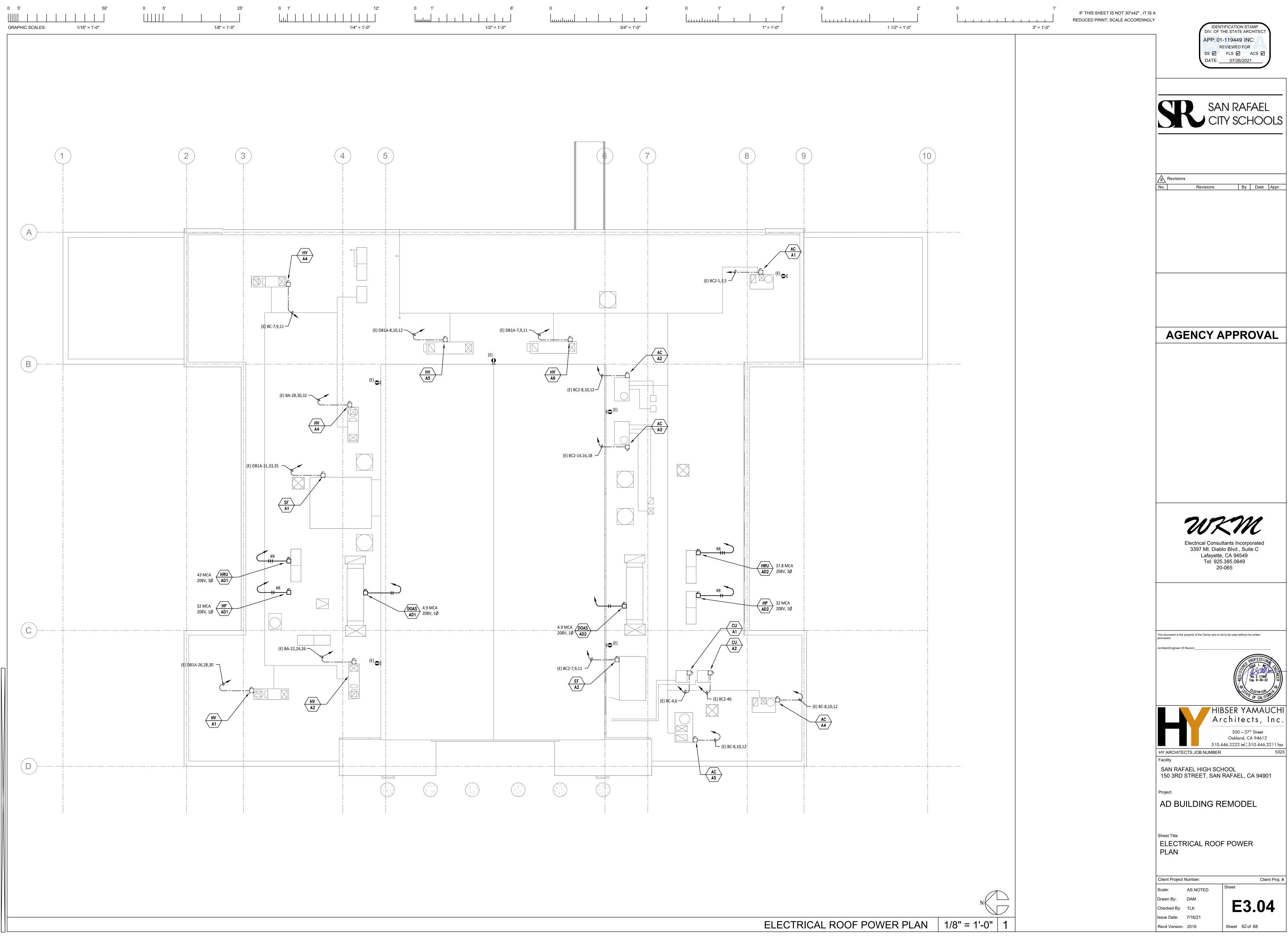


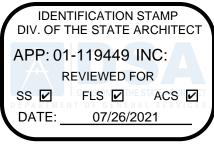


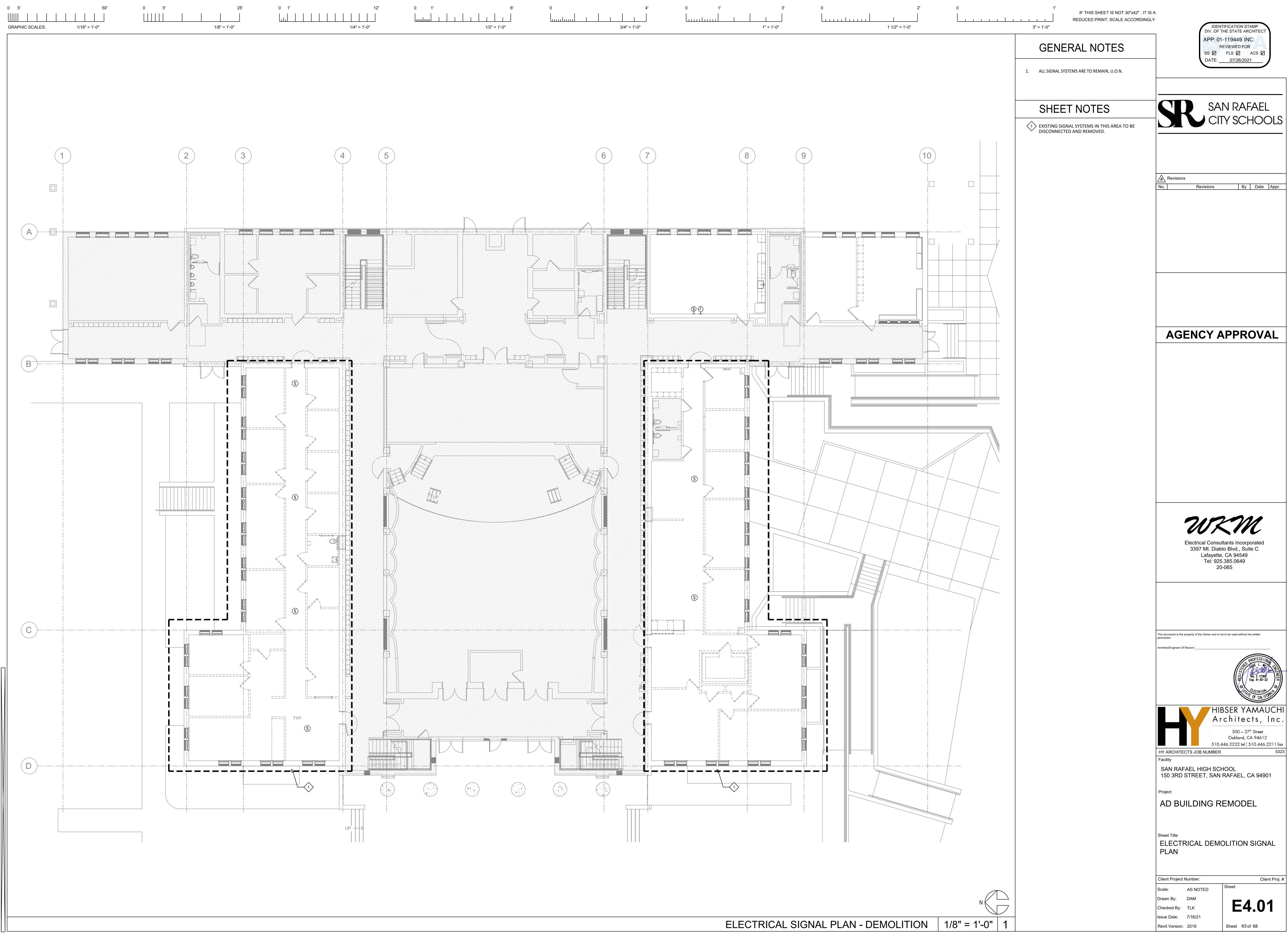




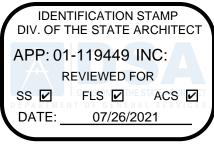


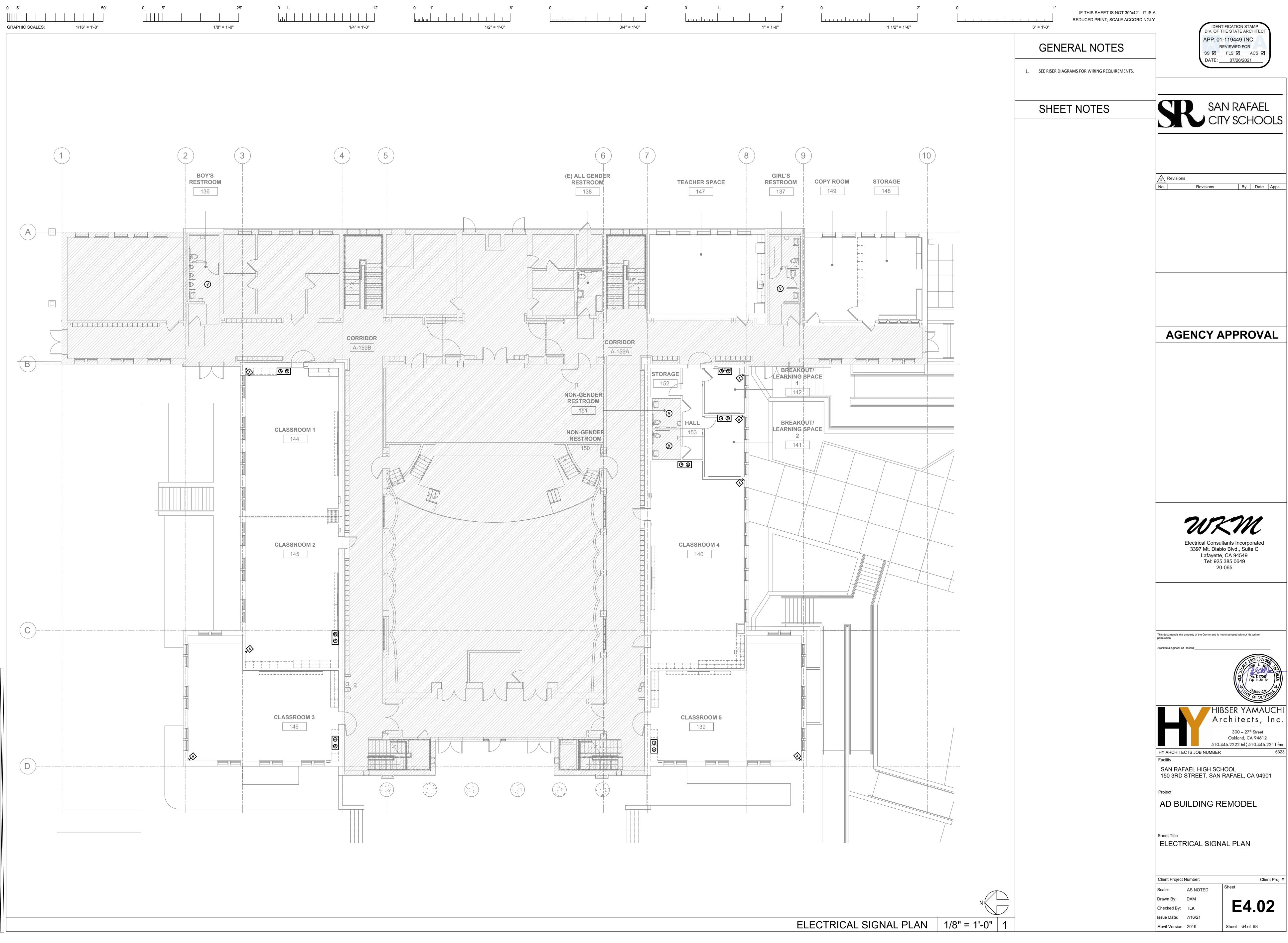


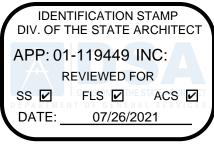


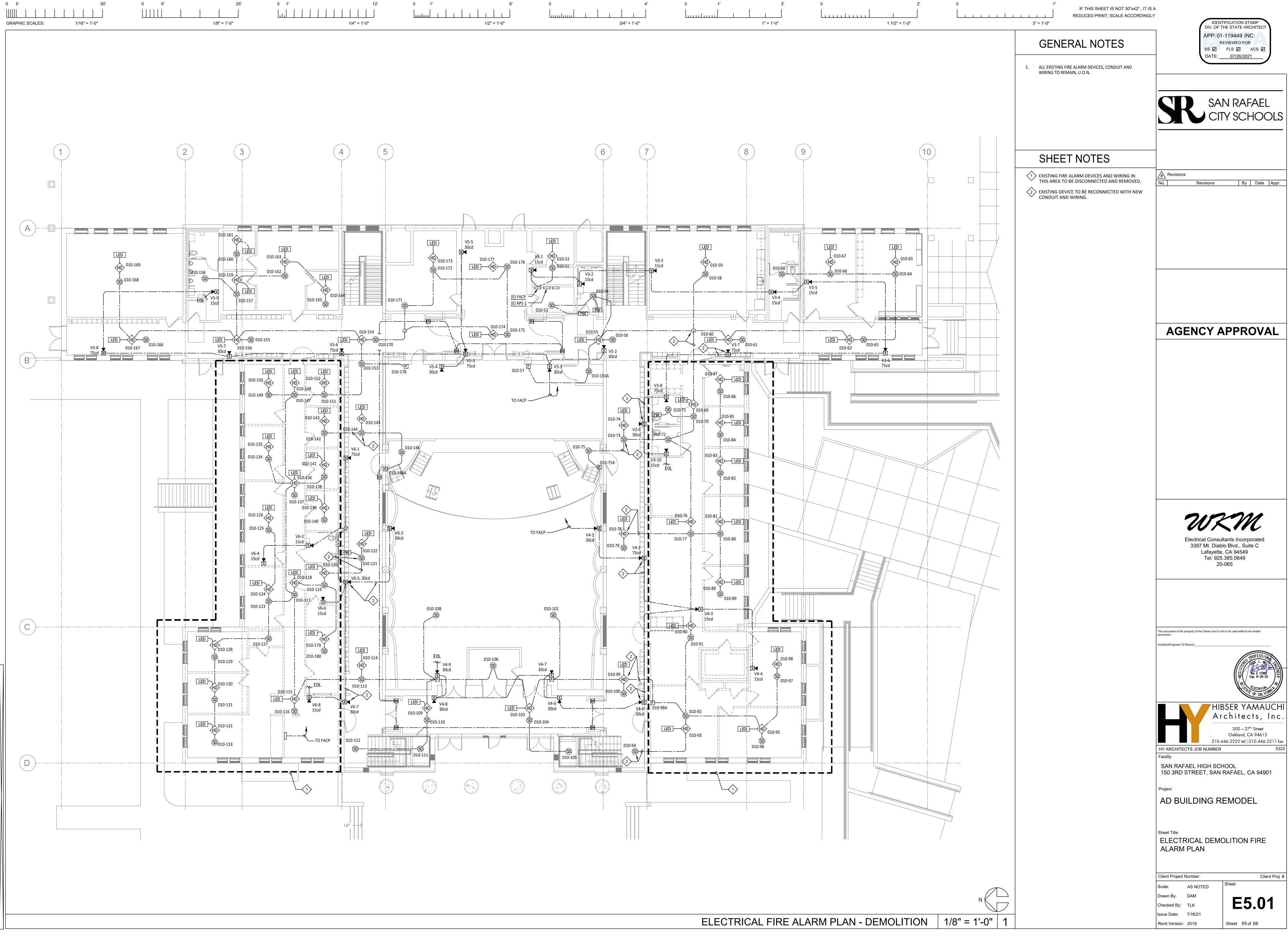


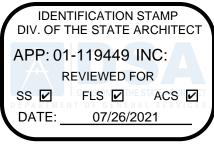
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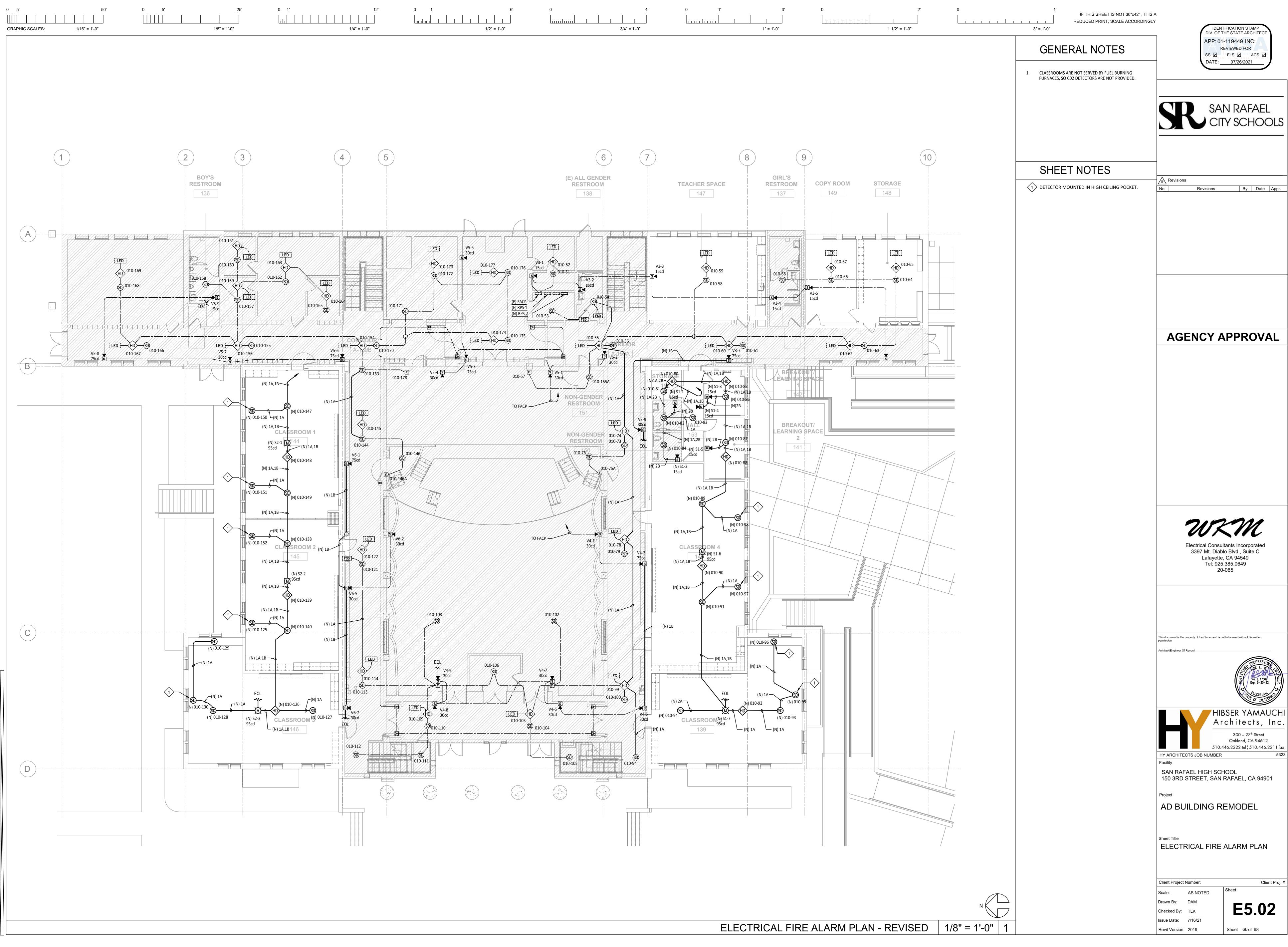


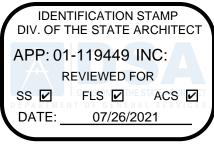












1/8" = 1'-0"

### 0 1' 12'

BILL OF MATERIALS								
QTY.	DESCRIPTION	MODEL #	MANUFACTURER	CSFM LISTING #				
1	EXISTING FIRE ALARM CONTROL PANEL	FIREFINDER XLS	SIEMENS	7165-0067:0222				
28	NEW ADDRESSABLE SMOKE DETECTOR	FP-11	SIEMENS	7270-0067:0203				
7	NEW CONVENTIONAL 200 DEGREE HEAT DETECTOR	5602	SYSTEM SENSOR	7270-1653:0167				
7	NEW ADDRESSABLE MONITOR MODULE	TRI S	SIEMENS	7300-0067:0146				
1	NEW REMOTE POWER SUPPLY	PAD 3	SIEMENS	7300-00675:0218				
2	WALL MOUNT STROBE	STR	WHEELOCK	7125-0785:0168				
3	WALL MOUNT HORN/STROBE	HSR	WHEELOCK	7125-0785:0168				
5 CEILING MOUNT HORN/STROBE HSWC WHEELOCK 7125-0785:0168								
F NUM	BER OF DEVICES VARIES BETWEEN BILL OF MATERIALS AND I	PLANS THE NUMBER	OF DEVICES ON PLANS SHALL B	E USED				
FOR PF	RICING. CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUAN	TITIES.						

FIRE	ALARM O	PERATION	MATRIX							
	ANNUNCIATE ALARM CONDITION AT FACP	ANNUNCIATE TROUBLE CONDITION AT FACP	ANNUNCIATE ALARM CONDITION AT ANNUNCIATOR	ANNUNCIATE TROUBLE CONDITION AT ANNUNCIATOR	ACTIVATE SPEAKER/STROBE UNITS THROUGHOUT CAMPUS	ACTIVATE SPRINKLER RISER BELL	SHUTDOWN ASSOCIATED AHU AND FIRE SMOKE DAMPERS	ACTIVATE ALARM SIGNAL FOR CENTRAL STATION (SIGNAL VIA DRY CONTACTS)	ACTIVATE TROUBLE SIGNAL FOR CENTRAL STATION (SIGNAL VIA DRY CONTACTS)	ANNUNCIATE SUPERVISORY AT PANEL AND ANNUNCIATOR AND CENTRAL STATION
MANUAL STATION	X		X		X			Х		
HEAT/SMOKE DETECTORS	X		X		X		X	X		
DUCT DETECTORS		X		X			X	Х		
WATER FLOW	X		Х		X	X	X	Х		
TAMPER / PIV		X		X					X	X
SYSTEM TROUBLE		X		X					X	

## EXISTING FIRE ALARM CONTROL PANEL BATTERY CALCULATIONS PANEL MODULES

QTY	DESCRIPTION	STAN	NDBY	ALA	ARM
		EACH	TOTAL	EACH	TOTAL
1	(E) MAIN CONTROL BOARD	0.175000	0.175000	0.175000	0.175000
2	(E) ALD LOOP	0.066000	0.132000	0.066000	0.132000
2	(E) NAC CIRCUIT	0.012000	0.024000	0.012000	0.024000
1	(E) ANNUNCIATOR KEYBOARD	0.005000	0.005000	0.005000	0.005000
3	(E) NETWORK INTERFACE MODULE	0.070000	0.210000	0.070000	0.210000
	PANEL STANDBY CURRENT		0.546000		
	PANEL ALARM CURRENT				0.546000
	FIELD DE	EVICES			
QTY	DESCRIPTION	STA	NDBY	ALA	ARM
		EACH	TOTAL	EACH	TOTAL
	DEVICE STANDBY CURRENT		0.000000		
	DEVICE ALARM CURRENT				0.000000

	FIELD DE	EVICES	
QTY	DESCRIPTION	STA	ND
		EACH	
-		-	
	DEVICE STANDRY CURRENT		

TOTAL SYSTEM CURRENT							
DESCRIPTION		STANDBY		ALARM			
CONTROL PANEL		0.546000		0.546000			
FIELD DEVICES		0.000000		0.000000			
TOTAL STANDBY CURRENT		0.546000					
X 24 HOUR STANDBY		13.104000					
TOTAL ALARM CURRENT				0.546000			
5 MINUTES OF ALARM (X .083)				0.045318			
TOTAL BATTERY REQUIREMENT				13.149318			
TOTAL BAT. WITH 20% SAFETY MARGIN				15.7792			
BATTERY SUPPLIED				* (2) 18 AH			

\* THE EXISTING ALD LOOPS INCLUDE CURRENT DRAW FOR MAXIMUM NUMBER OF INITIATION DEVICES, THEREFORE ADDITIONAL DEVICES ADDED IN THIS PROJECT DO NOT CHANGE THE EXISTING BATTERY REQUIREMENT.

### NEW RPS BATTERY CALCULATIONS

PANEL MODULES									
QTY	DESCRIPTION	STA	NDBY	AL	ARM				
		EACH	TOTAL	EACH	TOTAL				
1	SIEMENS PAD 3	0.0750	0.0750	0.0750	0.0750				
	PANEL STANDBY CURRENT		0.0750						
	PANEL ALARM CURRENT				0.0750				
	FIELD DEVICES								

FIELD DEVICES									
QTY	DESCRIPTION	STAI	NDBY	AL	ARM				
		EACH	TOTAL	EACH	TOTAL				
2	WALL STROBE (15CD)	0.0000	0.0000	0.0570	0.1140				
3	WALL MOUNT HORN/STROBE (15CD)	0.0000	0.0000	0.0820	0.2460				
5	CEILING MOUNT HORN/STROBE (95CD)	0.0000	0.0000	0.1630	0.8150				
	DEVICE STANDBY CURRENT		0.0000						
	DEVICE ALARM CURRENT				1.1750				

TOTAL SYSTEM CURRENT							
DESCRIPTION	STANDBY	ALARM					
CONTROL PANEL	0.0750	0.0750					
FIELD DEVICES	0.0000	1.1750					
TOTAL STANDBY CURRENT	0.0750						
X 24 HOUR STANDBY	1.8000						
TOTAL ALARM CURRENT		1.2500					
5 MINUTES OF ALARM (X .083)		0.1038					
TOTAL BATTERY REQUIREMENT		1.9038					
TOTAL BATTERY WITH 20% SAFETY MARGIN		2.2845					
BATTERY SUPPLIED		(2) 7AH					

4'

		HORN/ STROBE OR STROBE	+90" TO TO OF DEVICE C 6" BELOW C
STATION L +48" AFF 1 TOP OF HANDLE	BETWEE 96" MA		WHICHEVER
TYPICAL FIRE	ALARM D	EVICE E	LEVAT
		TO NEXT ATION DEVICE	
	FROM FIRE ALARM PANEL OR PREVIOUS NITIATION DEVICE		TO MONITORED/ INITIATION DEVIC
	TYPICAL CONTRO	OL/MONITOR MC	·
1	FROM FIRE ALARM PANEL OR PREVIOUS NITIATION DEVICE		TO NEXT INITIAT DEVICE
	TYPIC	AL PULL STATI	ON
	FROM FIRE ALARM PANEL OR PREVIOUS NITIATION DEVICE		TO NEXT INITIAT DEVICE
	TYPICAL ADDR	RESSABLE HEAT	DETECTOR
	FROM FIRE ALARM PANEL OR PREVIOUS NITIATION DEVICE =		TO NEXT INITIAT DEVICE
	TYPICA	L SMOKE DETEC	TOR
	FROM FIRE ALARM PANEL OR PREVIOUS SIGNALING DEVICE TYPIC	AL STROBE LIG	TO NEXT SIGNAI DEVICE OR END RESISTOR HT
	ROM FIRE ALARM		TO NEXT SIGNA
	PANEL OR PREVIOUS SIGNALING DEVICE TYF	PICAL SPEAKER	DEVICE OR END RESISTOR
1	FROM FIRE ALARM PANEL OR PREVIOUS SIGNALING DEVICE	 	TO NEXT SIGNAL DEVICE OR END RESISTOR
	FROM FIRE ALARM PANEL OR PREVIOUS SIGNALING DEVICE	Ø Ø SPEAKER∕STR	TO NEXT SIGNAL DEVICE OR END RESISTOR
TYPICAL	FIKE ALA		

	VOLTAGE DROP (VD) CALCULATION						
			T NAME: CIRCUIT		AEL HS		
DEVICE # GAUGE WIRE DISTANCE (FT) AMPS OF DEVICE TOTAL AMPS@DEV. VOLT. DROP @ DEV.	12 100 0.057 0.686 0.22692	12 20 0.057 0.629 0.04161	12 45 0.082 0.572 0.08514	12 5 0.082 0.49 0.0081	12 20 0.082 0.408 0.02699	12 50 0.163 0.326 0.05392	12 60 0.163 0.163 0.03235
DEVICE # GAUGE WIRE DISTANCE (FT) AMPS OF DEVICE TOTAL AMPS@DEV. VOLT. DROP @ DEV.	12 0 0	12 0 0	12 0 0	12 0 0	12 0 0	12 0 0	12
	0.686 AMPS 0.475 VDC			WIRE SIZE 10 12 14 16 18	RESIS. /M FT. 1.24 1.59 2.52 4.02	CIRC. MILS. 10380 6530 4110 2580 1620	

	VOLTAGE DROP (VD) CALCULATION						
	PROJECT NAME: SIGNAL CIRCUIT #:					AEL HS	
	1st 12 200 0.163	12 60	12 60				7th 12
TOTAL AMPS@DEV. VOLT. DROP @ DEV.	0.489	0.326	0.163			0	0 0
DEVICE # GAUGE WIRE DISTANCE (FT) AMPS OF DEVICE	11th 12						
TOTAL AMPS@DEV. VOLT. DROP @ DEV.			0 0				0 0
TOTAL CKT. AMPS	0.489 AMPS			SIZE	RESIS. /M FT. 1.24	MILS.	
TOTAL CKT V DROP =	0.4206	/DC		12	1.59	6530	*
CKT VOLTAGE =	20.4			16	4.02 6.39	2580	1
% VOLTAGE DROP=	2.1%				10.1		

3'  1" = 1'-0"		0 		2' 0 1' IF THIS SHEET IS NOT 30"x42", IT IS REDUCED PRINT; SCALE ACCORDINGLY 3" = 1'-0"	
				SCOPE OF WORK	
PEAKER TOP E OR W CEILING. ER IS LOWER				1. DISCONNECT AND REMOVE EXISTING FIRE ALARM DEVICES AND PROVIDE AND INSTALL NEW FIRE ALARM DEVICES AS SHOWN ON PLANS FOR REMODEL AREA AND CONNECT TO EXISTING SIEMENS SYSTEM.	
			-	TYPE OF SYSTEM	_
				-THIS IS AN EXISTING AUTOMATIC ADDRESSABLE SYSTEM. -CLASS 'B' DETECTION. -CLASS `B' INITIATION. -SYSTEM IS A PROTECTED PREMISIS AND REQUIRES 24 HOUR STANDBYTHE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR INITIATING DEVICES FOR AREA OF WORK SHALL BE AUTOMATIC TYPE AS REQUIRED BY FIRE PROTECTION ACT (SB575) GREEN OAKS FAMILY ACADEMY MIDDLE SCHOOL. - BUILDINGS ARE TYPE 'E' OCCUPANCY. - SYSTEM DESIGNER: TIFFANY L. KANE, WKM ELECTRICAL CONSULTANTS, INC	
TION	S	NTS	1	APPLICABLE CODES	
ED / CON TROLI EVICE _AY TIATION TIATION R TIATION R TIATION SNALING END-OF-LINE				PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2020: 2019 CALIFORNIA ADMINISTRATURE CODE (CAC), PART 1, TITLE 24 CCR 2019 CALIFORNIA BUILDING CODE (CBC), PART 3, TITLE 24 CCR (2018 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2016 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR (2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA ELECTRICAL CODE (CCC), PART 3, TITLE 24 CCR (2018 JAPMO UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA ELECTRICAL CODE (CCC), PART 1, TITLE 24 CCR (2018 JAPMO UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA FURGY CODE (CCC), PART 15, TITLE 24 CCR (2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA FURGY CODE (CCC), PART 17, TITLE 24 CCR (2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA REGOE (CCC), PART 17, TITLE 24 CCR (2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA REFERVECED 5TANDARDS CODE (CECE), PART 11, TITLE 24 CCR 2019 CALIFORNIA REFERVECED 5TANDARDS CODE (CALIGRENI), PART 11, TITLE 24 CCR 2019 CALIFORNIA REFERVECED 5TANDARDS CODE (CALIGRENI), PART 11, TITLE 24 CCR 2019 CALIFORNIA REFERVECED 5TANDARDS CODE (PART 12, TITLE 24 CCR 2019 CALIFORNIA REFERVECED 5TANDARDS CODE (PART 12, TITLE 24 CCR 2019 CALIFORNIA REFERVECED 5TANDARDS CODE (PART 12, TITLE 24 CCR 2019 CALIFORNIA REFERVECED 5TANDARDS CODE (PART 12, TITLE 24 CCR 2019 CALIFORNIA REFERVECED 5TANDARDS CODE (PART 12, TITLE 24 CCR 2019 CALIFORNIA REFERVECED 5TANDARDS CODE (PART 12, TITLE 24 CCR) 2018 CALIFORNIA STATULTURE UPON TANDARDS CODE PART 2 CH 35) NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE BAND LEST THE 204 SAME AT 12, TITLE 24 CCR 2019 CALIFORNIA REFERVECED 5TANDARDS CODE (PART 12, TITLE 24 CCR) 2019 CALIFORNIA RETAVES FOR PRIVATE FIRE PART 12, TITLE 24 CCR 2019 CALIFORNIA RETAVES FOR PRIVATE FIRE PROVINCINATION OF STEMS (CA AMENDED) - 2013 EDITION NFPA 24 - STANDARD FOR THE INSTALLATION OF SPIRIMELER SYSTEMS (CA AMEND	
SNALING END-OF-LINE SNALING			-	FIRE ALARM SYSTEM NOTES	_
END-OF-LINE				<ol> <li>FINAL FIRE ALARM TEST SHALL BE MADE WITH THE DSA PROJECT INSPECTOR (PI). LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL FIRE ALARM TESTING AND SHALL ASSIST/ WITNESS SUCH TESTING WHEN ABLE.</li> </ol>	
DETAI	L	NTS	2	<ol> <li>UNDERGROUND AND EXTERIOR CONDUITS WILL HAVE WATER-TIGHT FITTINGS. (CEC 110-11 AND 300-6)</li> <li>FIRE ALARM DEVICE MOUNTING HEIGHTS:         <ul> <li>PULL STATION: 48" TO TOP OF HANDLE ABOVE FINISHED FLOOR. (CEC 380-8c)</li> <li>HORN INTERIOR: MINIMUM 90" TO TOP OF DEVICE ABOVE FINISHED FLOOR, NOT LESS THAN</li> <li>FROM CEILING. (2016 NFPA72-18.4.8.1)</li> <li>WALL MOUNTED STROBE OR HORN/STROBE: MINIMUM 80" TO BOTTOM OF STROBE LENS AND NOT GREATER THAN 96" TO TOP OF STROBE LENS, ABOVE FINISHED FLOOR, NOT LESS THAN</li> <li>FROM CEILING. (2016 NFPA72-18.5.4.1)</li> </ul> </li> </ol>	
8th 12	9th 12	10th 12		<ol> <li>4. TO ENSURE THAT AUDIBLE PUBLIC MODE SIGNALS ARE CLEARLY HEARD, UNLESS OTHERWISE PERMITTED BY 2016 NFPA72-18.4.3.2 THROUGH 18.4.3.5, THEY SHALL HAVE A SOUND LEVEL AT LEAST 15db ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5db ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, MEASURED 5 ft (1.5 m) ABOVE THE FLOOR IN THE AREA REQUIRED TO BE SERVED BY THE SYSTEM USING THE A-WEIGHTED SCALE (dBA). (2016 NFPA72-18.4.3.1)</li> <li>5. AUDIBLE DEVICES SHALL SOUND THE CALIFORNIA UNIFORM FIRE ALARM SIGNAL IN TEMPORAL MODE.</li> </ol>	
0 0	0 0	2.27		<ol> <li>VISUAL DEVICES SHALL NOT EXCEED 2 FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN 1 FLASH EVERY SECOND. (2016 NFPA72-18.5.2.1)</li> <li>FIRE ALARM CONTRACTOR SHALL PROVIDE A ``RECORD OF COMPLETION" TO THE PROJECT INSPECTOR (D) (DSA ASTER COMPLETION OF OPERATIONAL ACCEPTANCE TESTS, (2016 NEPA 72 14 6 2 4)</li> </ol>	
18th 12	19th 12			<ul> <li>(PI) / DSA AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TESTS. (2016 NFPA 72-14.6.2.4 AND FIGURE 14.6.2.4)</li> <li>8. ALL CIRCUITS SHALL BE SUPERVISED AGAINST OPENS, SHORTS AND GROUNDS.</li> <li>9. INSTALLATION OF DEVICES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.</li> </ul>	-
0 0	0 0			<ol> <li>MARK ALL WIRES IN ACCORDANCE WITH 760-10.</li> <li>ALL OUTSIDE FIRE ALARM DEVICES SHALL BE CSFM LISTED AS WEATHERPROOF TYPE.</li> </ol>	
** FORMU I * FEET *  C.M.				<ol> <li>EXISTING CAMPUS FIRE ALARM SYSTEM SHALL NOT BE DISCONNECTED OR TAKEN OUT OF SERVICE WITHOUT WRITTEN PERMISSION FROM SCHOOL DISTRICT. 48 HOUR NOTICE SHALL PROVIDED TO LOCAL FIRE AUTHORITY PRIOR TO FIRE ALARM SYSTEM SHUTDOWN.</li> <li>ALL FIRE ALARM WIRING SHALL BE CONTINUOUS WITHOUT SPLICES AND TERMINATED IN TERMINAL BLOCKS OF THE DEVICE OR FIRE ALARM APPROVED TERMINAL BLOCKS IN TERMINAL CABINETS OR JUNCTION BOXES.</li> <li>ALL FIRE ALARM WIRING INSTALLED IN UNDERGROUND CONDUIT OR OTHER WET LOCATIONS SHALL BE UL LISTED FOR WET LOCATIONS.</li> </ol>	
				<ol> <li>ALL WIRING TO BE RUN IN FIRE ALARM DEDICATED CONDUIT. ALL NEW FA WIRING SHALL BE INSTALLED IN CONDUIT MINIMUM SIZE 3/4" U.O.N. USE EXISTING FIRE ALARM CONDUITS WHERE PRACTICAL TO INSTALL A NEW FA WIRING. FIELD VERIFY EXACT EXISTING CONDUIT ROUTING.</li> <li>ALL SHIELDS TO BE CONTINUOUS, DRY AND FREE FROM ALL GROUNDS AND SHORTS.</li> <li>ELECTRICAL/FIRE ALARM CONTRACTOR SHALL VERIFY EXISTING AVAILABLE ADDRESSES ON EXISTING SYSTEM AND CORRECT ON AS-BUILT DRAWINGS FOR SUBMITTAL TO SCHOOL DISTRICT AT END OF PROJECT.</li> </ol>	
8th 12	9th 12	10th 12		18. THIS CAMPUS HAS AN EXISTING UL LISTED CENTRAL MONITORING STATION: SUPERVISING STATION: AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72, AS AMENDED BY CFC CHAPTER 80. THE SUPERVISION STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.	29
0 0	0 0			<ol> <li>THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED <u>SYSTEM RECORD DOCUMENTS</u> PER NFPA 72, 7.7.2.4.</li> <li>AFTER APPROVAL, SUBSTITUTIONS OF FIRE ALARM MANUFACTURERS SHALL REQUIRE A CHANGE ORDER WITH MANUFACTURER CUT SHEETS AND APPLICABLE CSFM LISTINGS.</li> </ol>	
18th 12	19th 12			<ul> <li>21. PER NFPA 72 10.6.5.2:</li> <li>-PROVIDE DEDICATED FIRE ALARM CIRCUIT.</li> <li>-BREAKER FOR CIRCUIT SHALL BE RED AND MECHANICAL LOCKOUT SHALL BE PROVIDED.</li> <li>-FIRE ALARM PANEL AND CIRCUIT NUMBER SHALL BE IDENTIFIED ON ALL FIRE ALARM PANELS.</li> </ul>	
0 0	0 0	0 0		-ALL PANELS ARE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, I.E. LOCKED CABINETS OR LOCKED ROOMS.	
** FORMU					
C.M.					

