SAN RAFAEL CITY SCHOOLS

# SAN RAFAEL HIGH SCHOOL COMMONS AUDIO VISUAL SYSTEM

150 3RD STREET, SAN RAFAEL, CA 94901

**310 NOVA ALBION WAY** SAN RAFAEL, CA 94903 TEL: 415.492.3200 FAX: 415.492.3229

AGENCY APPROVAL

### **GENERAL NOTES** 1. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO SEE TO IT THAT ALL MATERIALS AND/OR WORK DESCRIBED. DEPICTED OR DETAILED WITHIN THESE DOCUMENTS, BE FURNISHED AND OR INSTALLED REGARDLESS OF THE LOCATION OF THAT MATERIAL OR WORK WITHIN THE DOCUMENTS OR OMISSION (WHETHER DELIBERATE OR ACCIDENTAL) OF THAT MATERIAL OR WORK BY A SUBCONTRACTOR ON HIS/HER BID. 2. ALL CONTRACTORS, WHETHER THE GENERAL OR SUB, SHALL CONSIDER THESE DOCUMENTS IN THEIR ENTIRETY. DISCREPANCIES OR CONTRADICTIONS BETWEEN PORTIONS OF THESE DOCUMENTS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AT LEAST 48 HRS PRIOR TO BID OPENING FOR CLARIFICATION. OTHERWISE EITHER DESCRIPTION OR INSTRUCTION SHALL BE IN FORCE UNTIL ONE IS OMITTED BY THE ARCHITECT, AT NO ADDITIONAL COST TO THE OWNER. 3. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING TEMPORARY FENCING AND GATES, SIGNAGE, SECURITY LIGHTING OR OTHER SECURITY AND CONTROL MEASURES NECESSARY TO PROVIDE FOR THE SAFETY OF STUDENTS, FACULTY AND STAFF AROUND THE WORK, UNTIL THE COMPLETION OF THE WORK UNLESS OTHERWISE DETERMINED BY THE ARCHITECT OR CONSTRUCTION MANAGER.

- 4. THE CONTRACTOR IS RESPONSIBLE TO REPAIR AND/OR REPLACE ALL DISTRICT PROPERTY DAMAGED DURING THE COURSE ON THE WORK, ESPECIALLY BUT NOT LIMITED TO ASPHALT PAVING AROUND THE SITE, STAGING AREA OR PATH OF TRAVEL TO EITHER. 5. THE CONTRACTOR SHALL LIMIT HIS/HER ACTIVITY TO THE AREA DESCRIBED WITHIN THE DOCUMENTS
- SO AS TO LIMIT HIS/HER LIABILITY FOR DAMAGED PROPERTY UNLESS OTHERWISE PERMITTED BY THE CONSTRUCTION MANAGER OR OWNER.
- 6. ALL WORK SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF ALL APPLICABLE CODES. SEE LIST
- 7. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS PRIOR TO COMMENCEMENT OF CONSTRUCTION EXCEPT DSA APPROVAL.
- 8. ALL DIMENSIONS SHALL BE FACE OF STUD, UNLESS OTHERWISE NOTED, DIMENSIONS NOTED AS "CLR" MEAN CLEAR DIMENSION TO FACE OF FINISH. VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND.
- 9. ALL ITEMS IN THESE DRAWINGS ARE NEW UNLESS OTHERWISE NOTED.
- 10. SCHEDULE ALL WORK OUTSIDE THE "EXTENT OF WORK" SET FORTH IN THESE DOCUMENTS WITH THE CONSTRUCTION MANAGER INCLUDING ACCESS AND STORAGE. THE CONSTRUCTION SCHEDULE SHALL BE APPROVED BY THE OWNER PRIOR TO THE START OF CONSTRUCTION.
- 11. ALL UTILITIES REQUIRED FOR THE CONTINUOUS OPERATION OF ALL EXISTING FACILITIES TO REMAIN MUST BE MAINTAINED IN SERVICE AT ALL TIMES. ANY SHUT DOWNS FOR NEW CONNECTIONS MUST BE COORDINATED WITH THE CONSTRUCTION MANAGER TWO WEEKS PRIOR TO THE REQUESTED
- 12. THE CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ANY ITEMS DAMAGED OR DISTURBED DURING THE COURSE OF THE WORK. INSTALLATION SHALL MATCH EXISTING IN KIND,
- 13. THE CONTRACTOR SHALL CONTAIN ALL DUST AND DEBRIS TO THE CONSTRUCTION AREA. BROOM CLEAN ALL SIDEWALKS AND DRIVEWAYS EACH DAY. KEEP DIRT AND DUST TO A MINIMUM.
- 14. ALL REMODELED ITEMS LISTED TO BE SALVAGED FOR THE OWNER SHALL BE DELIVERED TO A PLACE OF STORAGE AS DIRECTED BY THE OWNER. ALL OTHER ITEMS MUST BE DISPOSED OF OFF SITE IN A
- 15. ALL WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DISTURBANCE TO THE PUBLIC AND TO OCCUPANTS OF EXISTING BUILDINGS.
- 16. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE SAFETY OF ALL PERSONS ON OR ABOUT THE CONSTRUCTION SITE, IN ACCORDANCE WITH APPLICABLE LAWS AND CODES. GUARD ALL HAZARDS IN ACCORDANCE WITH THE SAFETY PROVISIONS OF THE LATEST MANUAL OF ACCIDENT PREVENTION PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA.
- A. COORDINATION WITH OTHER CONTRACTS: IF ANY PART OF THIS CONTRACTOR'S WORK DEPENDS UPON THE WORK OF A SEPARATE CONTRACTOR. THIS CONTRACTOR SHALL INSPECT SUCH OTHER WORK AND PROMPTLY REPORT IN WRITING TO THE CONSTRUCTION MANAGER ANY DEFECTS IN SUCH OTHER WORK THAT RENDER IT UNSUITABLE TO RECEIVE THE WORK OF THIS CONTRACTOR. FAILURE OF THIS CONTRACTOR TO SO INSPECT AND REPORT SHALL CONSTITUTE AN ACCEPTANCE OF THE OTHER CONTRACTOR'S WORK, EXCEPT AS TO DEFECTS WHICH MAY DEVELOP IN OTHER CONTRACTOR'S WORK AFTER EXECUTION OF THIS CONTRACTOR'S WORK.
- B. COORDINATION SCHEDULE: PORTIONS OF WORK UNDER THIS CONTRACTOR'S WORK MUST BE COMPLETED ON SCHEDULE IN ORDER FOR OTHER NOT-IN-CONTRACT WORK TO BE COMPLETED BY OTHERS. COORDINATION WITH THE CONSTRUCTION MANAGER AND STRICT ADHERENCE TO THE COMPLETION DATES FOR DESIGNATED PORTIONS OF WORK ARE IMPERATIVE. SEE SPECIFICATIONS FOR LIQUIDATED DAMAGES.
- 17. DEMOLITION IS NOT NECESSARILY LIMITED TO ONLY WHAT IS SHOWN ON THIS OR OTHER DRAWINGS OR AS OUTLINED IN THE SPECIFICATIONS. THE INTENT IS TO INDICATE GENERAL SCOPE OF DEMOLITION REQUIRED TO COMPLETE THE PROJECT WITH THE CONSTRUCTION DOCUMENTS.
- 18. OF PARTICULAR IMPORTANCE IS THE NEED FOR CONTRACTOR TO ASSURE THAT ALL PERSONS ENTERING A POSSIBLY HAZARDOUS AREA, INCLUDING SUPERINTENDENTS, WORKERS, SUBCONTRACTORS, OTHER CONTRACTORS, AND OTHER PERSONS NOT UNDER CONTRACTUAL CONTROL TO THE CONTRACTOR, ARE AWARE OF PROCEDURES.
- 19. ALL PIPE AND DUCT PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE FIRE STOPPED AND SEALED TO MAINTAIN THE REQUIRED RATING.
- 20. DETAIL DRAWINGS WITH REFERENCES TO FIRE-RATED ASSEMBLIES OR CONSTRUCTION WHICH HAVE BEEN TESTED BY UNDERWRITERS LABORATORIES, THE CALIFORNIA BUILDING CODE OR ANY OTHER APPROVED TESTING AGENCY, SHALL BE CONSTRUED TO INDICATE ALL CONSTRUCTION AND PROCEDURES CONTAINED IN THE REFERENCED ASSEMBLY FOR CONSTRUCTION.
- 21. CONTRACTOR TO MAINTAIN CONTEMPORANEOUSLY RECORDED "AS-BUILT" INFORMATION OF ALL WORK, WHICH SHALL BE MARKED IN COLOR ON THE DRAWINGS AND SPECIFICATIONS. A SCANNED PDF OF THE "AS-BUILT" DRAWINGS AND SPECIFICATIONS SHALL BE TURNED OVER TO THE OWNER'S REPRESENTATIVE PRIOR TO FINAL APPLICATION FOR PAYMENT. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- 22. ARCHITECT IS NOT RESPONSIBLE FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO, HAZARDOUS MATERIALS OR TOXIC SUBSTANCES IN ANY FORM AT THE PROJECT SITE. TO THE EXTENT THESE DOCUMENTS RELATE TO SUCH ISSUES, ARCHITECT'S PARTICIPATION IS SOLELY ADMINISTRATIVE WITHOUT ANY RESPONSIBILITY FOR THE CONTENT OR EXECUTION OF SUCH DOCUMENTS.
- 23. GENERAL CONTRACTOR AND SUB-CONTRACTORS TO VERIFY LEAD TIMES ON ALL PRODUCTS IMMEDIATELY UPON PROJECT AWARD. SOME PRODUCTS REQUIRE 6-12 WEEKS LEAD TIME AND SUBSTITUTIONS ARE NOT ALLOWED, UON

### **ADMINISTRATIVE REQUIREMENTS** THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO MODERNIZE EXISTING CLASSROOM AND

- ADMINISTRATION BUILDINGS IN AN EXISTING ELEMENTARY SCHOOL CAMPUS IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS SUCH THAT THE FINISHED WORK WILL NOT COMPLY WITH THE SAID TITLE 24, CALIFORNIA CODE OF REGULATIONS, CONSTRUCTION DOCUMENT(S) DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK
- . A COPY OF PARTS 1 AND 2, TITLE 24 C.C.R. SHALL BE KEPT ON THE JOB SITE AT ALL TIMES DURING
- ALL CONSTRUCTION CHANGE DOCUMENTS AND ADDENDA TO BE SIGNED BY THE ARCHITECT AND THE OWNER AND APPROVED BY DSA. CONSTRUCTION CHANGE DOCUMENT(S) ARE NOT VALID UNTIL APPROVED BY DSA PER SECTION 4-338, PART 1, TITLE 24.
- ALL TESTS TO CONFROM TO THE REQUIREMENTS OF SECTION 4-335, PART 1 TITLE 24. TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH SECTION 4-335OF PART 1, TITLE 24 AND THE DISTRICT SHALL EMPLOY AND PAY THE LABORATORY. COSTSOF RE-TEST MAY BE BACK CHARGED TO THE CONTRACTOR.
- 5. DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF CONCRETE PER SECTION 4-331, PART 1, TITLE 24.
- THIS PROJECT REQUIRES A DSA CERTIFIED PROJECT INSPECTOR. INSPECTOR SHALL BE APPROVED BY DSA. INSPECTION SHALL BE IN ACCORDANCE WITH SECTION 4-333(B). THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-342, PART 1, TITLE 24.
- 8. SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH SECTION 4-334, PART 1,
- 9. CONTRACTOR, INSPECTOR, ARCHITECT, AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (FORM DSA-6 IN ACCORDANCE WITH SECTION 4-336 AND 4-343, PART 1, TITLE 24.
- 0. THE ARCHITECT SHALL PERFORM THEIR DUTIES INACCORDANCE WITH SECTION 4-333(A) AND 4-341, . THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH SECTION 4-343, PART 1, TITLE

# APPLICABLE CODES

- CODES AND REGULATIONS: 2022 CALIFORNIA BUILDING ADMINISTRATIVE CODE,
- **2022 CALIFORNIA BUILDING CODE (CBC)**, PART 2, TITLE 24, CCR BASED ON THE
- 2021 INTERNATIONAL BUILDING CODE (IBC) WITH 2021 CALIFORNIA AMENDMENTS) **2022 CALIFORNIA ELECTRICAL CODE (CEC)**, PART 3, TITLE 24, CCR BASED ON THE

ALL WORK PERFORMED UNDER THIS CONTRACT IS TO CONFORM TO THE FOLLOWING

- **2022 CALIFORNIA MECHANICAL CODE (CMC)**, PART 4, TITLE 24, CCR BASED ON THE 2021 UNIFORM MECHANICAL CODE (UMC) WITH 2021 CALIFORNIA AMENDMENTS) **2022 CALIFORNIA PLUMBING CODE (CPC)**, PART 5, TITLE 24, CCR BASED ON THE
- 2021 UNIFORM PLUMBING CODE (UPC) WITH 2021 CALIFORNIA AMENDMENTS)
- <u>2022 SAFETY CODE FOR ELEVATORS AND ESCALATORS</u> **2022 CALIFORNIA FIRE CODE (CFC)**, PART 9, TITLE 24, CCR BASED ON THE
- 2021 INTERNATIONAL FIRE CODE (IFC) WITH 2022 CALIFORNIA AMENDMENTS) **2022 CALIFORNIA EXISTING BUILDING CODE**, PART 10, TITLE 24 CCR
- 2021 IEB CODE AND 2022 CALIFORNIA AMENDMENTS) **2022 CALIFORNIA GREEN BUILDING CODE (CALGreen)**, PART 11, TITLE 24, CCR 2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 CCR

# <u>TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS</u>

- INSTALLATION OF SPRINKLER SYSTEMS 2022 EDITION INSTALLATION OF STANDPIPE SYSTEMS 2019 EDITION STANDARD FOR DRY CHEMICAL EXTINGUISHING SYS. 2021 EDITION NFPA 17A STANDARD FOR WET CHEMICAL SYS. 2021 EDITION INSTALLATION OF STATIONARY PUMPS 2019 EDITION NFPA 20 2019 EDITION
- INSTALLATION OF PRIVATE FIRE MAINS NATIONAL FIRE ALARM AND SIGNALING CODE 2022 EDITION FIRE DOORS AND OTHER OPENING PROTECTIVES 2019 EDITION STANDARD FOR SMOKE CONTROL SYSTEMS 2018 EDITION CRITICAL RADIANT FLUX OF FLOOR COVERING SYS NFPA 253
- 2019 EDITION CLEAN AGENT FIRE EXTINGUISHING SYSTEM 2018 EDITION REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS - 2022 CBC CHAPTER 35 AND 2022 CFC CHAPTER 45
- THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IN FORCE ON THE DATE OF THE CONTRACT, UNLESS OTHERWISE STATED, NOTHING ON THE DRAWINGS IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS WHICH MAY BE APPLICABLE.

COMPLIANCE WITH CFC CHAPTER 33, FIRE SAFETY DURING CONSTRUCTION AND

DEMOLITION, AND CBC CHAPTER 33, SAFETY DURING CONSTRUCTION WILL BE

## OWNER

SAN RAFAEL CITY SCHOOLS 310 NOVA ALBION WAY TEL. (415) 492-3285 SAN RAFAEL, CA 94903 FAX. (415) 492-3229

DIRECTOR OF CAPITAL FACULTIES: WILLIAM SAVIDGE

- SAN RAFAEL HIGH SCHOOL
- 150 THIRD STREET SAN RAFAEL, CA 94901
- PROGRAM MANAGER
- VAN PELT CONSTRUCTION SERVICES TEL. (707) 438-3790 5030 BUSINESS CENTER DRIVE, STE 240 FAX. (707) 438-3793 FAIRFIELD, CA 94534
- **CONSTRUCTION MANAGER**
- WILL McMANUS **GREYSTONE WEST COMPANY** MAIN OFFICE: 621 WEST SPAIN STREET, SONOMA, CA 95476
- TEL. (707) 933-0624 FAX. (707) 996-8390

TEL. (415) 485-2330

- HIBSER YAMAUCHI ARCHITECTS, INC. 300 27TH STREET, 2ND FLOOR OAKLAND, CA 94612
- **CONTACT: JENAN ABDUNNUR**
- WKM ELECTRICAL CONSULTANTS, INC 3397 MT. DIABLE BLVD, SUITE C
- THE SHALLECK COLLABORATIVE, INC 1553 MARTIN LUTHER KING JR WAY

FILE: 21-H1

**INDEX OF DRAWINGS** 

APPL: 01-121140

**CEILING PLAN ENLARGED CEILING PLANS AND SECTION** 

FIRE LIFE SAFETY SITE PLAN

ACCESSIBILITY SITE PLAN

INTERIOR ELEVATIONS AND DETAILS INTERIOR DETAILS

FLOOR PLAN

ARCHITECTURAL

A0.01 TITLE SHEET

- FOR REFERENCE ONLY PLANS 01-117565 DSA APPROVED PLANS
- AV0.01 AV PANEL SCHEDULE, STANDARD DETAILS, ALS, SCOPE INFO AV0.02 AV WIRETYPE SCHEDULE AND CABLE/CONDUIT GUIDELINES

SYMBOLS, LEGENDS AND ABBREVIATIONS

CODE ANALYSIS FIRST FLOOR PLAN WEST

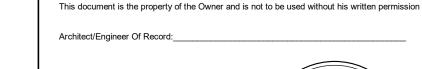
- AV2.01 AV DEVICE PLAN AND RCP AV3.01 AV EQUIPMENT PLAN, SECTION AND ELEVATION AT COMMONS
- AV4.01 AV PANEL ELEVATIONS, WIRE & CONDUIT DIAGRAM, BLOCK DIAGRAM AV5.01 AV MOUNTING DETAILS
- ELECTRICAL NOTES, SYMBOLS AND DETAILS ELECTRICAL FLOOR PLAN- OVERALL E1.02 ELECTRICAL LIGHTING PLAN

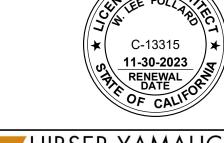
### CONSULTANTS

### **ARCHITECT**

- TEL. (925) 385-0649
- PRODUCTION SYSTEMS/AV SYSTEM PLANNING

- TEL. (510) 446-2222 FAX (510) 446-2211
- ELECTRICAL / COMMUNICATIONS
- LAFAYETTE, CA 94549 CONTACT: TIFFANY L. KANE
- TEL. (415) 814-1566 BERKELEY, CA 94709 CONTACT: SCOTT KRENZKE





### **VICINITY MAP SCOPE OF WORK DEFERRED APPROVALS**



INSTALLATION OF A DIRECT VIEW LED WALL MOUNT SYSTEM AND SPEAKERS,AT THE EXISTING MADRONE ADMINISTRATION COMMONS BUILDING. INSTALLATION SHALL INCLUDE ALL ITEMS TO COMPLETE A FULL WORKING SYSTEM INCLUDING CONTROLS, WIRING, CONDUITS, AND EQUIPMENT.

PROJECT SHALL INCLUDE DEMOLITION AND REPAIR OF EXISTING FINISHES FOR INSTALLATION OF MOUNTED SYSTEM, CONDUIT, WIRING AND FINISH ELEMENTS. MINOR ADJUSTMENTS TO EXISTING UTILITES AS REQUIRED TO ACCOMMODATE THE INSTALLATION AS REQUIRED.

ALL WIRING, CONDUIT AND DEVICES SHALL BE RECESSED UNLESS OTHERWISE INDICATED IN THE

HIBSER YAMAUCH Architects, Inc 300 – 27<sup>th</sup> Street Oakland, CA 94612 510.446.2222 tel | 510.446.2211 fax HY Architects Project number:

SAN RAFAEL HIGH SCHOOL 150 3RD STREET, SAN RAFAEL, CA 94901

**COMMONS AUDIO VISUAL** SYSTEM

Client Project Number:

Checked By: JA

Revit Version: 2023

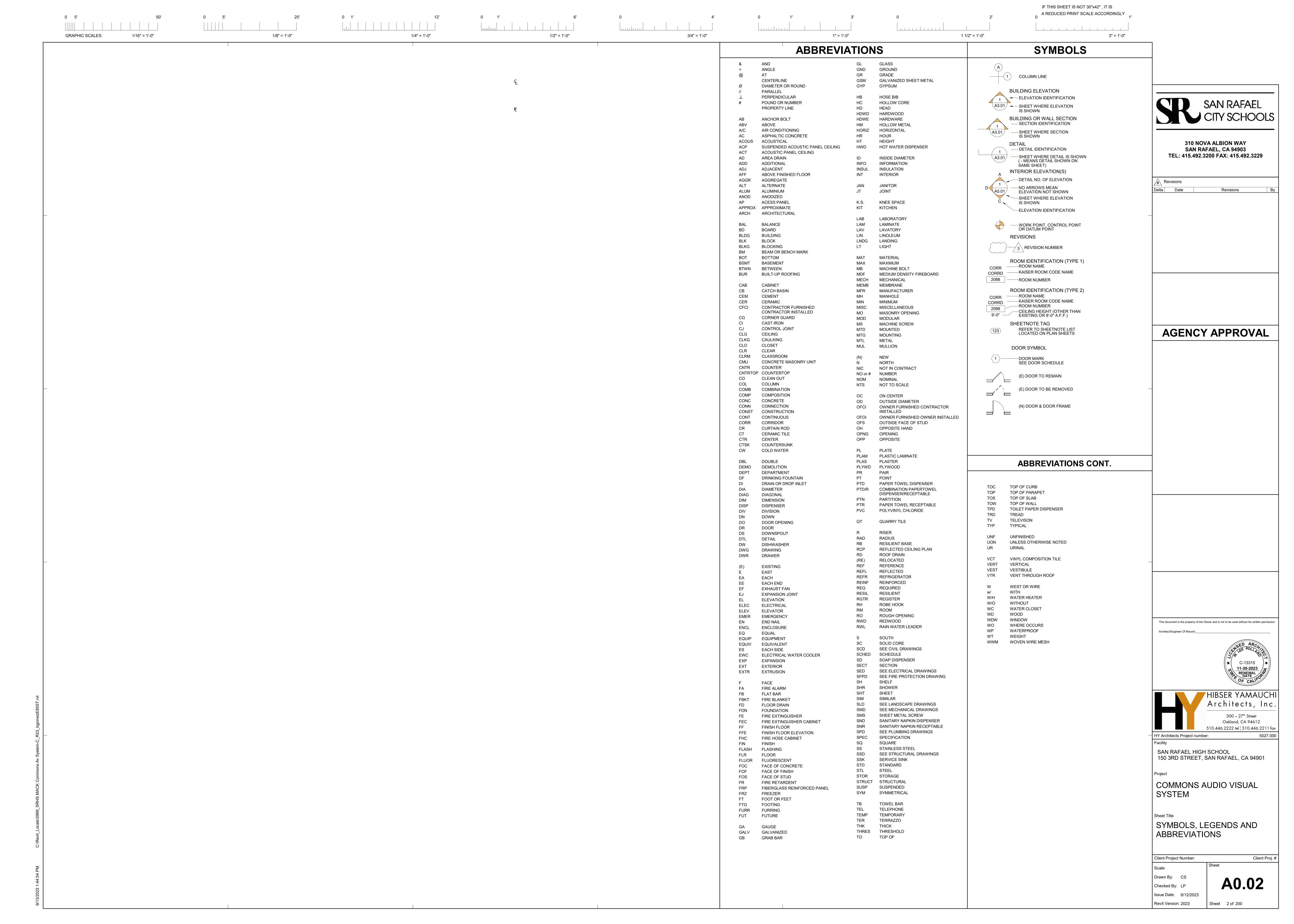
TITLE SHEET

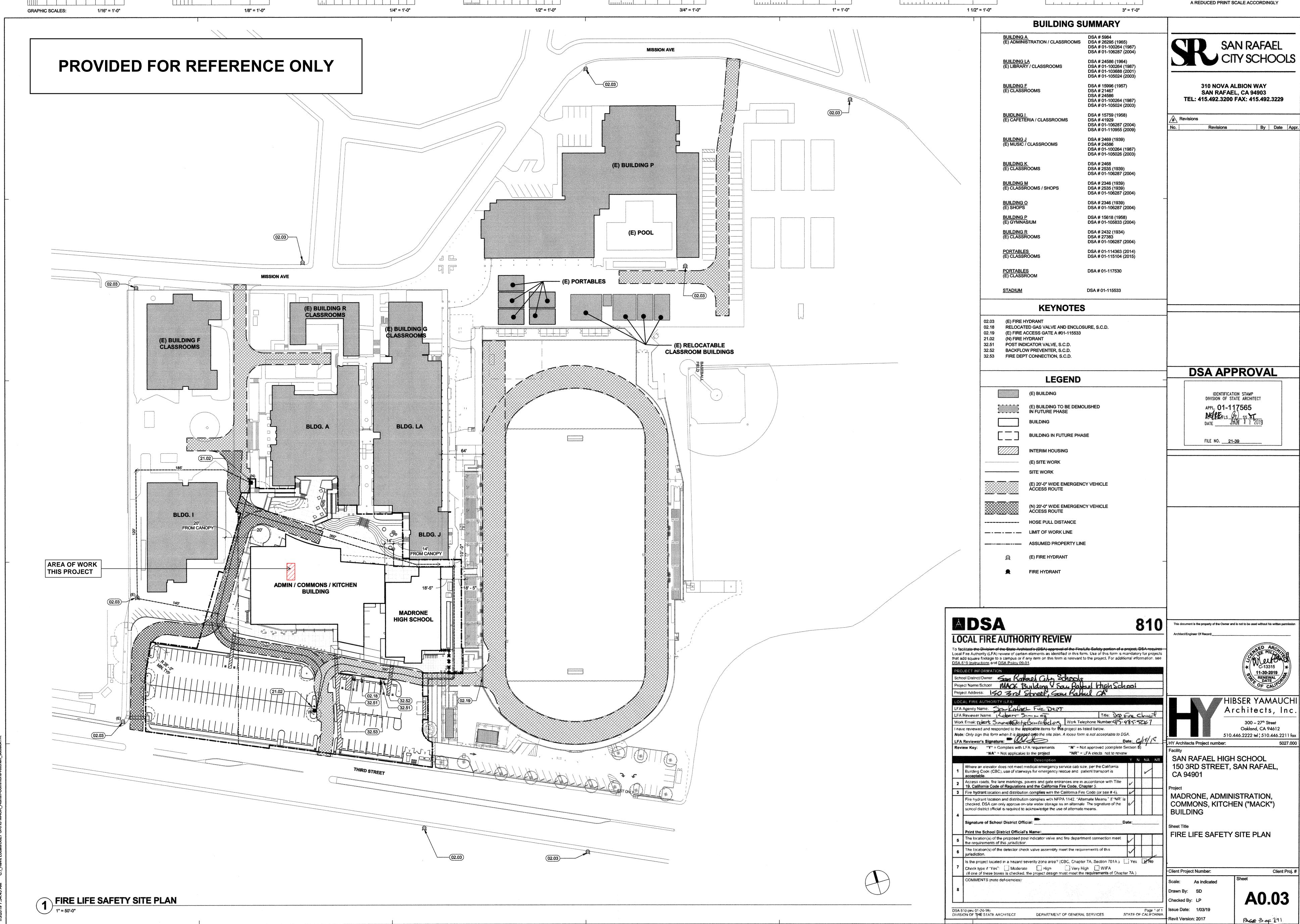
Issue Date: 6/12/2023

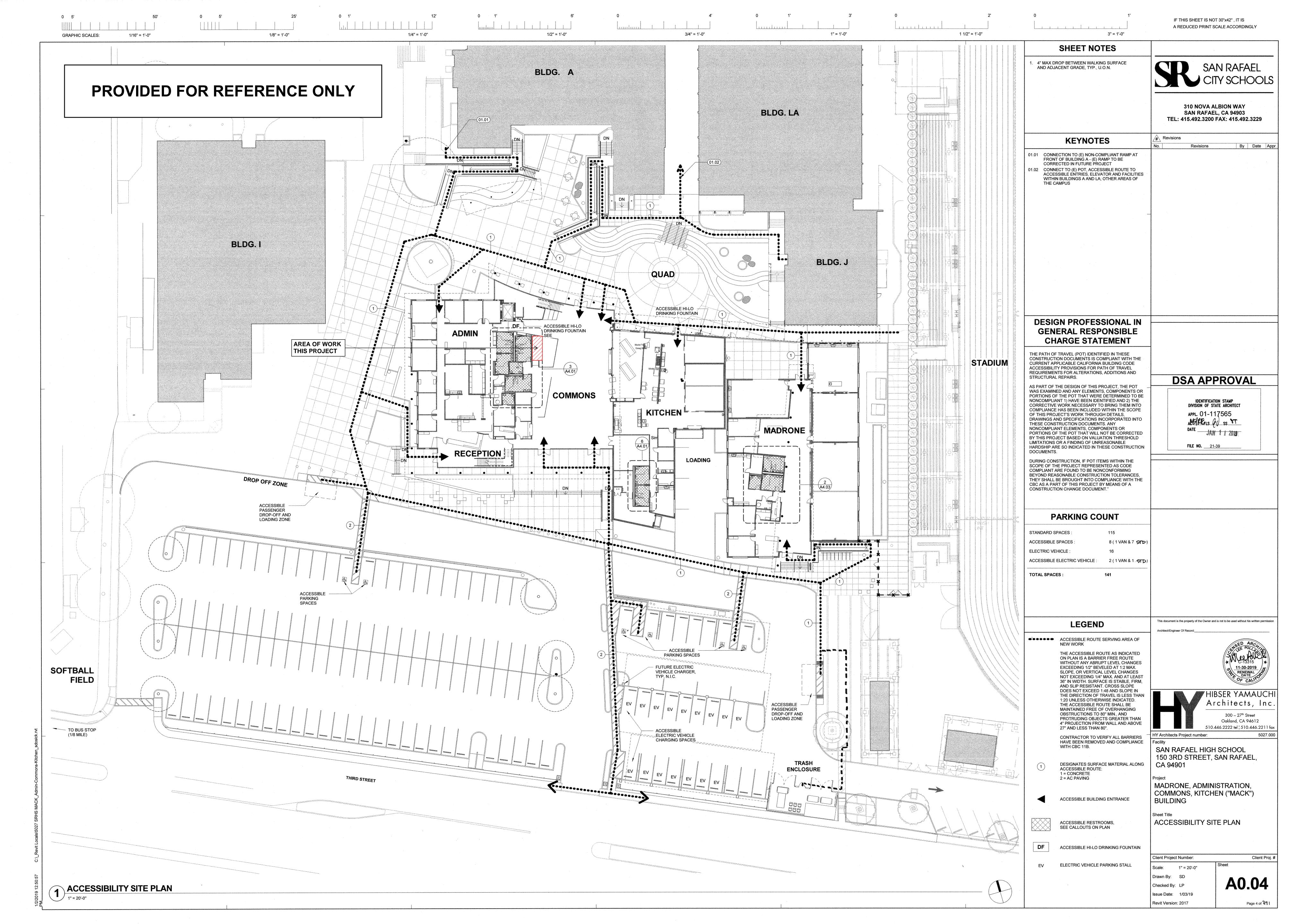
Client Proj. #

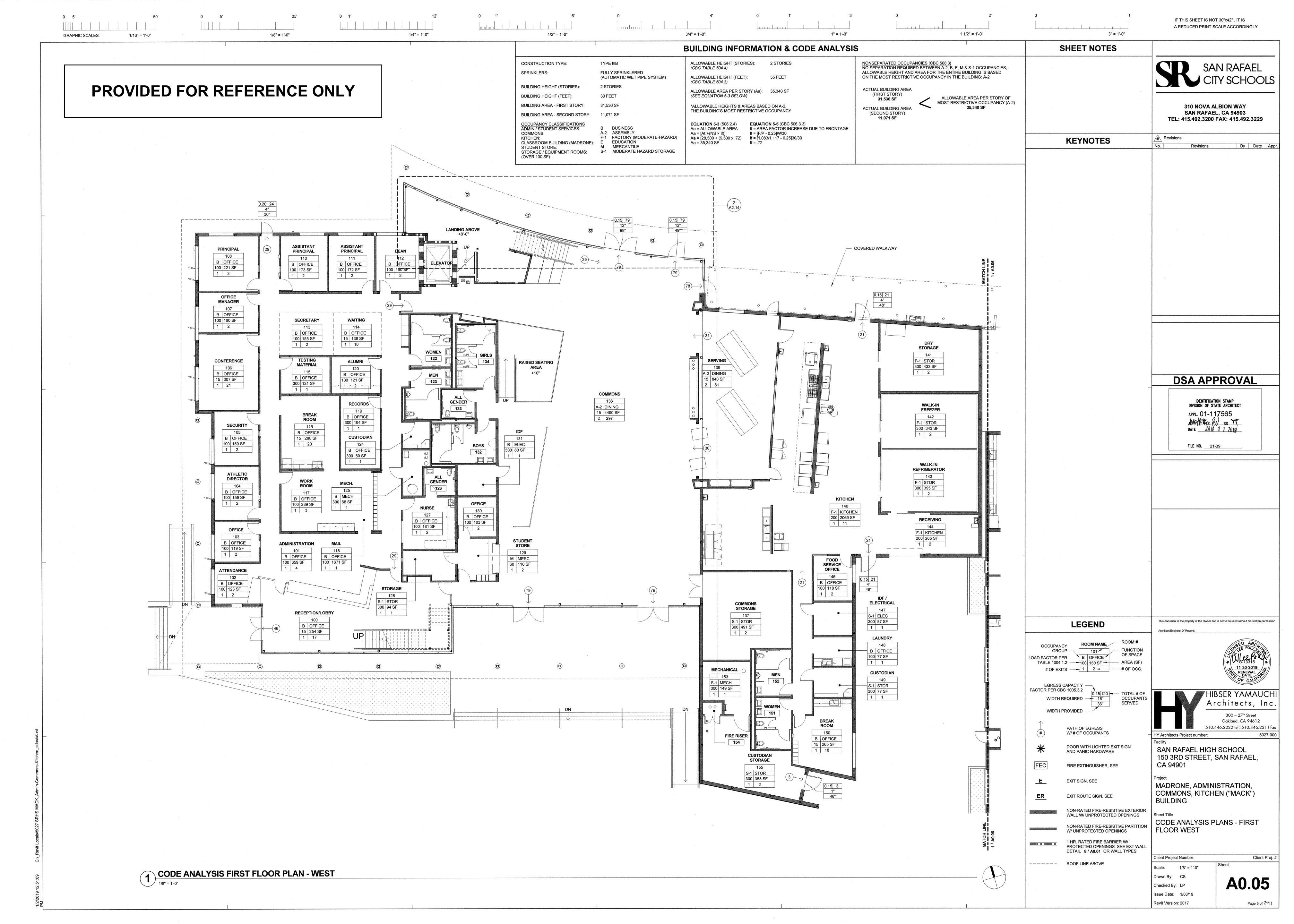
PROJECT LOCATION-











IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT SCALE ACCORDINGLY GRAPHIC SCALES: 1/8" = 1'-0" 1 1/2" = 1'-0" 3" = 1'-0" **GENERAL NOTES** 1. SEE AUDIO VISUAL & ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.. (E)(N)(G)2. ALL CONDUIT & WIRING SHALL BE RUN RECESSD IN THE EXISTING WALLS. EXISTING WALLS SHALL BE PATCHED AND REPAIRED TO LOOK NEW UPON COMPLETION. REPAINT ENTIRE ADJACENT SURFACE UPON COMPLETION OF SAN RAFAEL CITY SCHOOLS 3. ALL EXISTING DEVICES AND EQUIPMENT ARE TO REMAIN UNLESS SPECIFICALLY NOTED FOR REMOVAL.

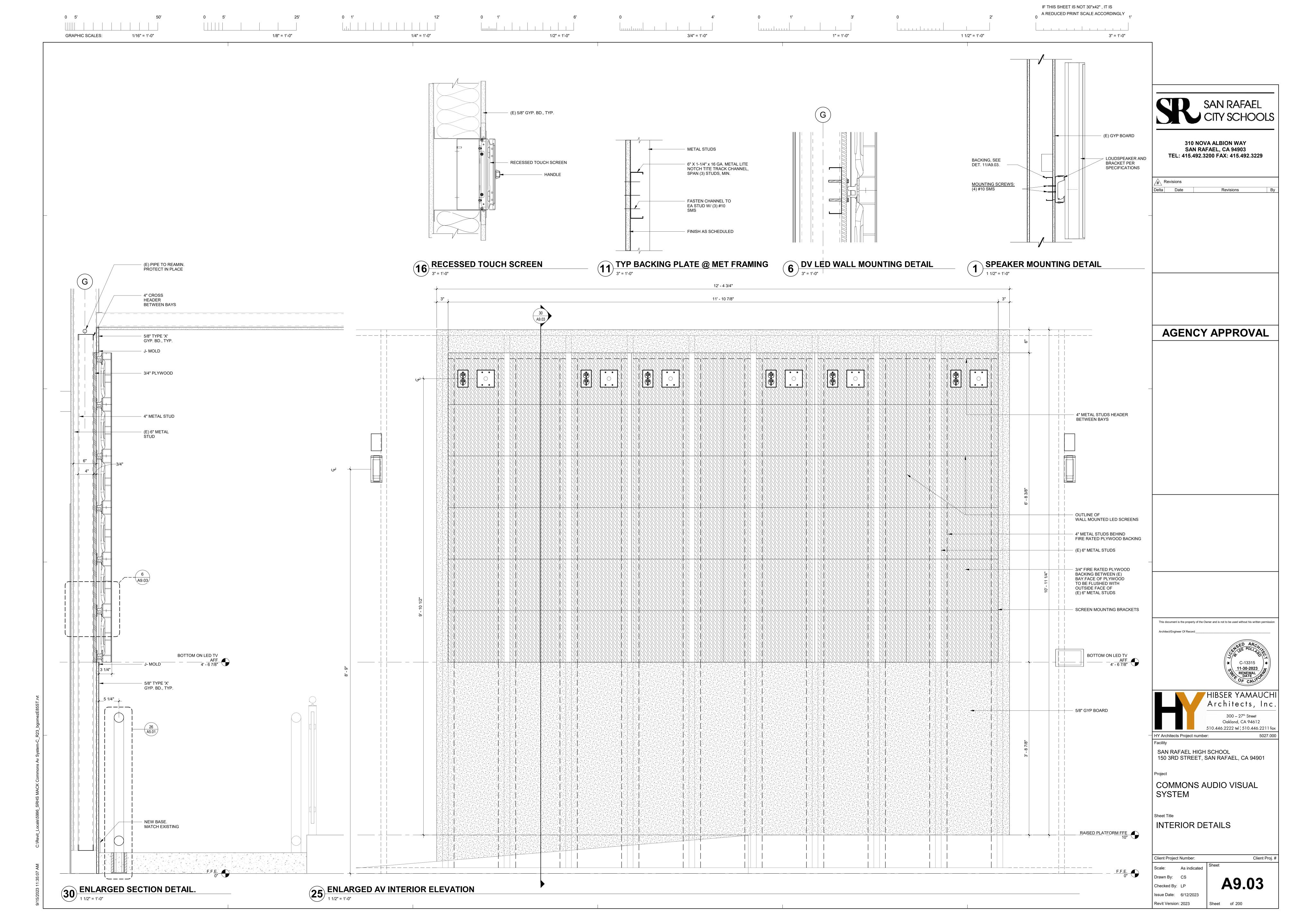
A. PROTECT ALL ITEMS TO REMAIN IN PLACE INCLUDING LIGHTING, PANELS, DEVICES, SPRINKLERS, STRUCTURAL MEMBERS, ETC. B. WHERE NECESSARY FOR ACCESS, REMOVE & PROTECT ALL (E) DEVICES FOR RE-INSTALLATION AT PROJECT COMPLETION. 4. NOTIFY ARCHITECT OF ANY IN THE FIELD DISCREPANCIES PRIOR TO FINISHES INSTALLATION. 310 NOVA ALBION WAY SAN RAFAEL, CA 94903 5. GENERAL CONTRACTOR AND SUB-CONTRACTORS TO VERIFY LEAD TIMES ON ALL PRODUCTS IMMEDIATELY UPON PROJECT AWARD. SOME PRODUCTS TEL: 415.492.3200 FAX: 415.492.3229 REQUIRE 6-12 WEEKS LEAD TIME AND SUBSTITUTIONS ARE NOT ALLOWED, UON. # Revisions Revisions LANDING ABOVE STAIR #2 **ASSISTANT ASSISTANT** PRINCIPAL PRINCIPAL ELEVATOR | STAIR #3 PRINCIPAL 110 111 MANAGER - AREA OF WORK **AGENCY APPROVAL** +10" RAISED SEATING 30 CONFERNCE TESTING **ALUMNI** MATERIAL 120 **GENDER** BREAK ROOM RECORDS SECURITY **KEYNOTES** COMMONS 11.03 WALL MOUNTED SPEAKER, SEE AV DRAWINGS. PROVIDE BACKING PER DETAIL TYP. U.ON. 15/A9.03 AS REQUIRED TO SUPPORT NEW WALL MOUNTED EQUIPMENT 11.04 RECESSED DIGITAL TOUCH SCREEN. PROVIDE LOCKABLE COVER BOX PER OWNER'S REQUIREMENTS. SEE DETAIL 16/A9.03 11.05 WALL MOUNTED DATA RACK. ADJUST LOCATION OF ADJACENT CONDUIT AS REQUIRED AND SHIFT MOBILE FLOOR RACK TO ACCOMMODATE NEW DATA RACK. SEE ELECTRICAL AND AV DRAWINGS FOR MOUNTING DETAILS. **ATHLETIC** 11.06 WALL MOUNTED LED SCREENS SYSTEM, SEE AV DRAWINGS FOR **DIRECTOR** WORK ROOM SPECIFICATIONS 11.07 FLOOR MOUNTED GALVANIZED STEEL PIPE HANDRAIL **KITCHEN** NURSE OFFICE 127 COPIER COPIER WASH STORAGE 141 **ATTENDANCE** VAN LOADING COMMONS STORAGE This document is the property of the Owner and is not to be used without his written permission KITCHEN 142 **EMPLOYEE** RECEPTION/LOBBY Architect/Engineer Of Record:\_ PARKING HIBSER YAMAUCH Architects, Inc WOMEN KITCHEN Oakland, CA 94612 **EMPLOYEE** ±7' - 0" V.I.F. |3' - 1". 510.446.2222 tel ¦ 510.446.2211 fax HY Architects Project number: SAN RAFAEL HIGH SCHOOL 150 3RD STREET, SAN RAFAEL, CA 94901 STORAGE **COMMONS AUDIO VISUAL** SYSTEM FLOOR PLAN Client Project Number: Client Proj.# FIRST FLOOR PLAN - WEST A1.01 Issue Date: 6/12/2023 Revit Version: 2023

A REDUCED PRINT SCALE ACCORDINGLY **GRAPHIC SCALES:** 1/8" = 1'-0" 1/4" = 1'-0" 1 1/2" = 1'-0" 3" = 1'-0" **GENERAL NOTES** (G)- FACE OF EXISTING WALL 1. SEE AUDIO VISUAL & ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.. 2. ALL CONDUIT & WIRING SHALL BE RUN RECESSD IN THE EXISTING WALLS. EXISTING WALLS SHALL BE PATCHED AND REPAIRED TO LOOK NEW UPON - 1 1/4" O.D. S.S. STD PIPE SET 3' - 10 3/4" COMPLETION. REPAINT ENTIRE ADJACENT SURFACE UPON COMPLETION OF IN POST SLEEVE, SEE SAN RAFAEL 3. ALL EXISTING DEVICES AND EQUIPMENT ARE TO REMAIN UNLESS SPECIFICALLY NOTED FOR REMOVAL. A. PROTECT ALL ITEMS TO REMAIN IN PLACE INCLUDING LIGHTING, PANELS. (3) 1-1/4" O.D. STEEL DEVICES, SPRINKLERS, STRUCTURAL MEMBERS, ETC. PIPE HANDRAIL, B. WHERE NECESSARY FOR ACCESS, REMOVE & PROTECT ALL (E) DEVICES FOR RE-INSTALLATION AT PROJECT COMPLETION. 4. NOTIFY ARCHITECT OF ANY IN THE FIELD DISCREPANCIES PRIOR TO FINISHES INSTALLATION. 310 NOVA ALBION WAY SAN RAFAEL, CA 94903 5. GENERAL CONTRACTOR AND SUB-CONTRACTORS TO VERIFY LEAD TIMES ON ALL PRODUCTS IMMEDIATELY UPON PROJECT AWARD. SOME PRODUCTS TEL: 415.492.3200 FAX: 415.492.3229 1-1/4" O.D. STEEL REQUIRE 6-12 WEEKS LEAD TIME AND SUBSTITUTIONS ARE NOT ALLOWED, UON. PIPE CONTINUOUS DEMO (E)
WALL MOUNTED
HANDRAIL
PATCH/PAINT WALL AS
NEEDED WHEEL GUIDE # Revisions Revisions CONCRETE RAMP, SET POST IN STEEL SLEEVE W/ 6" MIN EMBEDMENT IN NON SHRINK GROUT, TYP FLOOR MOUNTED HANDRAIL CROSS SECTION DETAIL

1 1/2" = 1'-0" 6 ENLARGED DEMO PLAN
1/2" = 1'-0" 1 ENLARGED FLOOR PLAN
1/2" = 1'-0" **AGENCY APPROVAL** RELOCATE (E) WIRING AS 12' - 3" REQUIRED FOR DATA RACK A5.01 1 1/4" O.D. STAINLESS STEEL PIPE RAILING, WELD ALL JOINTS & GRIND EDGES SMOOTH, TYP **KEYNOTES** 09.01 PATCH AND REPAIR GYP. BD. AND REPAINT ENTIRE AREA AS REQUIRED FOR INSTALLATION OF RECESSED WIRING. 09.08 BASE MATCH EXISTING. 11.03 WALL MOUNTED SPEAKER, SEE AV DRAWINGS. PROVIDE BACKING PER DETAIL 15/A9.03 AS REQUIRED TO SUPPORT NEW WALL MOUNTED EQUIPMENT 1.04 RECESSED DIGITAL TOUCH SCREEN. PROVIDE LOCKABLE COVER BOX PER OWNER'S REQUIREMENTS. SEE DETAIL 16/A9.03 1.05 WALL MOUNTED DATA RACK. ADJUST LOCATION OF ADJACENT CONDUIT AS REQUIRED AND SHIFT MOBILE FLOOR RACK TO ACCOMMODATE NEW DATA RACK. MOUNT AV RACK IN SEE ELECTRICAL AND AV DRAWINGS FOR MOUNTING DETAILS. BETWEEN **EQUIPMENT SHOWN** 1.06 WALL MOUNTED LED SCREENS SYSTEM, SEE AV DRAWINGS FOR IN IMAGE. SEE SPECIFICATIONS - DRILL 3" O HOLE, 6" ELECTRICAL AND AV 11.07 FLOOR MOUNTED GALVANIZED STEEL PIPE HANDRAIL MIN DEEP SLEEVE, DRAWINGS FILL NON-SHINK 1. (E) CONCRETE RAMP IS TO REMAIN. PROVIDE (N) HANDRAILS ONLY. **GROUT IN EXISTING** 2. LÉVEL LANDING IS EQUAL TO 2% CROSS SLOPÈ MAX IN EA DIRECTION 28 IDF- INTERIOR ELEVATION AND ENLARGED FLOOR PLAN
1/4" = 1'-0" 7 FLOOR MOUNTED HANDRAIL @ RAMP This document is the property of the Owner and is not to be used without his written permission Architect/Engineer Of Record:\_ HIBSER YAMAUCH Architects, Inc Oakland, CA 94612 **LEGEND** 510.446.2222 tel ¦ 510.446.2211 fax HY Architects Project number: SAN RAFAEL HIGH SCHOOL 150 3RD STREET, SAN RAFAEL, CA 94901 NEW GYP BOARD \_\_\_\_\_\_ **COMMONS AUDIO VISUAL** WE ARE SR! SYSTEM INTERIOR ELEVATIONS AND **DETAILS ∱**RAISED PLATFORM Client Proj.# Client Project Number: 09.08 As indicated 30 COMMONS WEST AV INTERIOR ELEVATION

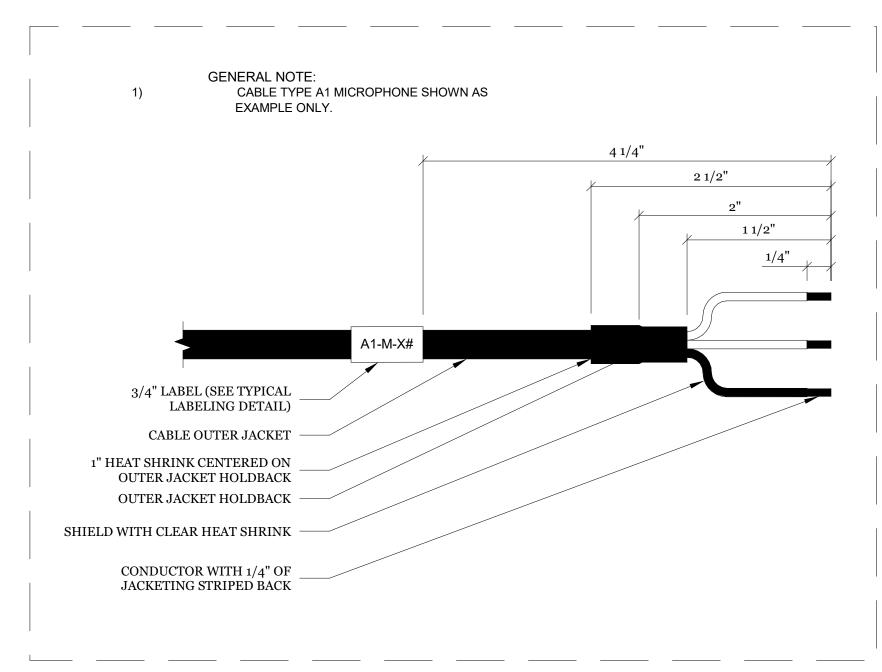
1/4" = 1'-0" Drawn By: Author A5.01 Checked By: Checker Issue Date: 6/12/2023 Revit Version: 2023

IF THIS SHEET IS NOT 30"x42", IT IS



1 1/2" = 1'-0"

3" = 1'-0"



1/8" = 1'-0"

GRAPHIC SCALES:

FAN CONTROL UNIT AT TOP OF RACK LIGHT High Reach ≺ 1. RACKS SHOWN IN THIS DETAIL NON-OPERABLE ARE NOT PROJECT SPECIFIC, SEE **POWER EQUIPMENT** MOUNTING DETAILS FOR SEQUENCING CONSTANT POWER: EXAMPLES: SPECIFIC RACK MODELS AND WIRELESS MICROPHONE • DIGITAL SIGNAL PROCESSORS RECEIVERS CONTROL PROCESSORS CABLE MODULATORS 2. SEE SPEC FOR REQUIRED CONTROL PROCESSORS DISPLAYS DC POWER SUPPLIES EQUIPMENT RACK ACCESSORIES. NETWORK SWITCHES INTERCOM STATIONS CABLE MODULATORS 3. OPERABLE PORTIONS OF THE AV UNINTERRUPTIBLE POWER VIDEO CONVERTERS EQUIPMENT MUST BE WITHIN SUPPLIES VIDEO SWITCHES DIGITAL SIGNAL THE LOW/HIGH FORWARD/SIDE FIRST ON/LAST OFF: REACH ZONE NOTED WIRELESS MICROPHONE RECEIVERS BELOW. DISPLAYS DC POWER SUPPLIES VIDEO CONVERTERS VIDEO SWITCHES +48" Max. High
Forward/Side Reach
Seated Eye LAST ON/FIRST OFF: PROJECTORS OPERABLE PROJECTION SCREENS AMPLIFIERS/SPEAKERS **EQUIPMENT** COORDINATE WITH OTHER CONTRACTORS WHEN NON-AV EQUIPMENT IS MOUNTED IN AV EXAMPLES: DISPLAY CONTROLS TOUCH SCREENS PATCHBAYS CUSTOM RACK PANELS INTERCOM STATIONS NETWORK SWITCHES VERTICAL POWER STRIP ON - CONSTANT POWER (CONNECTED TO UPS IF AVAILABLE) MODULAR POWER RACEWAY (SEE SPEC +15" Min. Low Forward/Side – - FOR MORE INFORMATION) CONNECTED TO POWER SEQUENCING NON-OPERABLE CONVENIENCE POWER IN **EQUIPMENT** MIN ONE OUTLET OF MPR ON CONSTANT BOTTOM SPACE EXAMPLES: AMPLIFIERSUPS FRONT VIEW REAR VIEW

1" = 1'-0"

6 TYPICAL WIRE TERMINATION PREP

	VIEW NUMBER
	· VIEW TITLE
# TITLE  1/8"=1'-0"	- SCALE
EMPTY WEIGHT: XXX LBS. EQUIPMENT WEIGHT: XXX LBS. TOTAL MAX WEIGHT: XXX LBS.	EQUIPMENT WEIGHT (IF APPLICABLE)
I	

5 RACK ELEVATION GUIDELINES

NTS

			AV PAN	NEL SCHE	DULE		
DEVICE TYPE	LOCATION	DEVICE DESCRIPTION	PANEL SIZE - FLUSH MOUNT	PANEL SIZE - SURFACE MOUNT	BOX TYPE - FLUSH MOUNT	BOX TYPE - SURFACE MOUNT	WIRING CONNECTION
CSP-1	COMMONS	CONTROL PANEL WITH LOCKING COVER	7 1/2" X 7 1/2"	N/A	MFR: FSR INC. MODEL: OWB-CP1-PLT W/ RECESS KIT	N/A	HOME RUN TO AV RACK
FM	COMMONS	FM ASSISTIVE LISTENING ANTENNA	1-GANG	1-GANG	2-GANG DOUBLE-DEPTH BOX W/ 1-GANG REDUCER	DOUBLE-DEPTH 1-GANG BELL WEATHERPROOF BOX	HOME RUN TO AV RACK
HDMI	COMMONS	HDMI INPUT	2-GANG	2-GANG	2-GANG DOUBLE-DEPTH BOX	DOUBLE-DEPTH 2-GANG BELL WEATHERPROOF BOX	HOME RUN TO AV RACK
LS-1	COMMONS	LOUDSPEAKER CONNECTIONS	1-GANG W/ GROMMET	1-GANG W/ GROMMET	2-GANG DOUBLE-DEPTH BOX W/ 1-GANG REDUCER	DOUBLE-DEPTH 1-GANG BELL WEATHERPROOF BOX	HOME RUN TO AV RACK
RK-1	IDF	EQUIPMENT RACK J-BOX	N/A	N/A	NEMA TYPE 1 12X12X6	NEMA TYPE 1 12X12X6	HOME RUN TO AV RACK
VDWL	COMMONS	VIDEO WALL CONNECTION	2-GANG W/ GROMMET	2-GANG W/ GROMMET	2-GANG DOUBLE-DEPTH BOX	DOUBLE-DEPTH 2-GANG BELL WEATHERPROOF BOX	HOME RUN TO AV RACK
WX	COMMONS	WIRELESS MICROPHONE	1-GANG	1-GANG	2-GANG DOUBLE-DEPTH BOX W/1-GANG REDUCER	DOUBLE-DEPTH 1-GANG BELL WEATHERPROOF	HOME RUN TO AV RACK

AV: AUDIO-VISUAL CONTRACTOR EC: ELECTRICAL CONTRACTOR	PROV	TIDED BY	INSTALLED BY		
SCOPE	EC	AV	EC	AV	
POWER SYSTEMS (COMPLETE)	Yes	No	Yes	No	
COMPANY SWITCHES	Yes	No	Yes	No	
CONDUIT FOR AV SYSTEM	Yes	No	Yes	No	
STANDARD GANG & DIMENSIONAL BACKBOXES	Yes	No	Yes	No	
FLOOR & WALL SPECIALTY BACKBOXES	No	Yes	Yes	No	
WIRE & PULL FOR AV SYSTEMS (LOW-VOLTAGE ONLY)	No	Yes	No	Yes	
WIRE TERMINATION FOR AV SYSTEMS	No	Yes	No	Yes	
EQUIPMENT RACKS FOR AV	No	Yes	No	Yes	
AV EQUIPMENT & INSTALLATION	No	Yes	No	Yes	
AV TESTING, TUNING, CONFIGURATION	No	Yes	No	Yes	

PRODUCTION SYSTEMS SCOPE MATRIX

	ASSISTIVE LISTENING-CBC											
		# SEATS	# RECEIVERS	# HEARING-AID	TYPE	NOTES						
C	OMMONS	297	12	3	FM							

11B-219.3 ASSISTIVE LISTENING RECEIVERS										
-California's ADA Standards for Accessible Design (2016)-										
Capacity of seating in Assembly Area	Minimum Number of Required Receivers	Minimum Number of Hearing-Air Compatible Required Receivers								
1-50 Seats Two Two										
51+ Seats	4% of the Total Amount of Seating	25%								

	ASSISTIVE LISTENING CALCULATIONS & REFERENCES
2	NTS

CBC-ASSISTIVE LISTENING CODE REFERENCES
1. 11B-219 Assistive listening systems
2. 11B·219.1 General. Assistive listening systems shall be provided in accordance with
Section 71B-219 and shall comply with Section 17 B-706.
3. IIB·219.2 Required systems. An assistive listening system shall be provided in
assembly areas, including conference and meeting rooms.
Exception: This section does not apply to systems used exclusively for paging,
background music, or a combination of these two uses.
4. 11B-219.3 Receivers. The minimum number of receivers to be provided shall be
equal to 4 percent of the total number of seats, but in no case less than two.
Twenty-five percent minimum of receivers provided, but no fewer than two, shall h
nearing-aid compatible in accordance with Section J 1 B-706.3.
Exceptions:
1. Where a building contains more than one assembly area and the assembly
areas required to provide assistive listening systems are under one
management, the total number of required receivers shall be permitted to be
calculated according to the total number of seats in the assembly areas in the
building provided that all receivers are usable with all systems.
2. Where all seats in an assembly area are served by an induction loop assistive
listening system, the minimum number of receivers required by Section f J
B-219.3 to be hearing-aid compatible shall not be required to be provided.
5. 11B-219.4 Location. If the assistive-listening system provided is limited to specific
areas or seats, then such areas or seats shall be within a 50-foot (15240 mm) viewing
distance of the stage or playing area and shall have a complete view of the stage or
playing area.

1 AV PANEL SCHEDULE

1 NTS

**310 NOVA ALBION WAY** SAN RAFAEL, CA 94903 TEL: 415.492.3200 FAX: 415.492.3229

#\ Revisions Revisions

**AGENCY APPROVAL** 

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Architects, Inc

510.446.2222 tel ¦ 510.446.2211 fax HY Architects Project number:

SAN RAFAEL HIGH SCHOOL 150 3RD STREET, SAN RAFAEL, CA 94901

**COMMONS AUDIO VISUAL** SYSTEM

AV PANEL SCHEDULE, STANDARD DETAILS, ALS, & SCOPE INFO

Client Project Number:

Revit Version: 2023

12" = 1'-0" Drawn By: GTEH Checked By: STK Issue Date: 09/26/2023

**AV0.01** Sheet 1 of 6

Client Proj.#

3" = 1'-0"

TYPE	DESCRIPTION	EX:	DRY LOC IN-WALL, C	_	_	MD	EX: IN	NOTES				
		MFR	MODEL	O.D.	AREA	RATING	MFR	MODEL	O.D.	AREA	RATING	
GROUP A -	MIC LEVEL											
A1	Microphone Level Audio 22 AWG, 7X30 stranding, Foil shield	Belden	9451	0.135	0.0143	CMR	Belden	2451RW	0.158	0.0196	CMR	
ROUP B -	LINE LEVEL											
B1	Line Level Audio 22 AWG, 7x30 Stranding, Foil Shield	Belden	9451	0.135	0.0143	CMR	Belden	2451RW	0.158	0.0196	CMR	
B2	Digital Audio - AES/EBU, 110-ohm 22 AWG, 7x30 Stranding, Foil Shield	Gepco	DS401	0.18	0.0254	CMR	Sommer Cable	200-0241AQ	0.276	0.0598	CMR	
В3	Line Audio + DC Power 1-PR 22 AWG, 7x30 Stranding, Foil Shield 1-PR 18 AWG, 16x30 Stranding, Foil Shield	Belden	1502R	0.250	0.0491	CMR	Liberty	LLINX-U-DB	0.275	0.0594	DB	Runs Under 300'
ВЗВ	Line Audio + DC Power 1-PR 22 AWG, 7x30 Stranding, Foil Shield 1-PR 14 AWG, 16x30 Stranding, Foil Shield	Sommer Cable	500-0101-1	0.291	0.0665	CMR	R	un 2 separate cables (1)	) B1 & (1) D1		N/A	Runs Over 300'
ROUP C -	VIDEO, NETWORK, & RF LEVEL											
C1	Party-Line Intercom, 1 CH 20 AWG, 7x28 Stranding, Foil Shield	Belden	8762	0.204	0.0327	CM	West Penn	AQC292	0.220	0.0380	CL3	Runs Under 500'
C1B	Party-Line Intercom, 1 CH 18 AWG, 16x30 Stranding, Foil Shield	Belden	8760	0.222	0.0387	CM	West Penn	AQ293	0.310	0.0754	CL3	Runs Over 500'
C1C	Digital Intercom, 1 CH 20 AWG, 7x28 Stranding, Foil Shield	Belden	9207	0.330	0.0855	CMG	West Penn	AQC292	0.220	0.0380	CL3	Helix-Net 1 Channel
C2	Party-Line Intercom, 2 CH 22 AWG, 7x30 Stranding, Foil Shield, 2 Pair	Belden	1814R	0.330	0.0855	CMR	West Penn	AQC430	0.250	0.0491	CL3	
С3	Party-Line Intercom, 4 CH 22 AWG, 7x30 Stranding, Foil Shield, 4 Pair	Belden	1815R	0.384	0.1158	CMR	West Penn	AQC439	0.427	0.1431	CL3	
СЗВ	Digital Intercom, Multi-CH 24 AWG, Solid, Foil Shield, 4 Pair, Cat5e, F/UTP	Belden	1533R	0.260	0.0531	CMR	Belden	7937A	0.276	0.0598	DB	Helix-Net Multi Chan
C5	Ethernet Data, Cat 6A, Single Foil Shield, F/UTP 23 AWG, Solid, Bonded Pairs	Belden	10GX62F	0.300	0.0707	CMR	Belden	2141A	0.370	0.1075	CM-LS	
C6	Crestron / AMX Control 22 AWG, 7x30 Stranded, Foil Shield, (DATA) 18 AWG, 16x30 Stranded, (Power)	Liberty	LLINX-U	0.246	0.0475	CMG	Liberty	LLINX-U-DB	0.275	0.0594	DB	
C7	DC Control, 2 Conductor 18 AWG, 16x30 Stranded, Twisted Pair	Belden	9740	0.210	0.0346	CMG	West Penn	AQ224	0.270	0.0572	CL3	
C8	DC Control, 4 Conductor 18 AWG, 16x30 Stranded, Twisted Pair	Belden	9156	0.333	0.0870	CMG	West Penn	AQ244	0.327	0.0839	CL3	
C9	CATV Video 18 AWG, Solid Conductor, Braided Shield, RG-6 Type	Belden	9116	0.270	0.0572	CM, CATV	West Penn	AQC841	0.275	0.0594	CL3	
C10	Production Video 20 AWG, Solid Conductor, Braided Shield, RG-59 Type	Belden	1505A	0.233	0.0426	CMR	Belden	88281	0.271	0.0577	CMP	Runs Under 500'
С10В	Production Video 18 AWG, Solid Conductor, Braided Shield	Belden	1694A	0.274	0.0589	CMR	Belden	1694WB	0.274	0.0589	CMR	Runs Over 500'
C10C	Production Video 16 AWG, Solid Conductor, Braided Shied	Belden	4794R	0.320	0.0804	CMR		No Kno	own Option			
C12	Wireless Antenna 10 AWG, Solid Conductor, Braided Shield, RG-8/U, $50\Omega$	Times Microwave Systems	LMR-400-FR	0.405	0.1288	CMR	Times Microwave Systems	LMR-400-DB	0.405	0.1288	DB	
C14	Infrared Emitter 19 AWG, Solid Conductor, Braided Shield	Times Microwave Systems	LMR-200-FR	0.195	0.0298	CMR	Times Microwave Systems	LMR-200-DB	0.195	0.0298	DB	Runs Under 100'
C15	Extron XTP/DTP shielded 4-Twisted Pair	Extron	XTP DTP 24	0.276	0.0598	СМ		No Kno	wn Option			
C19	Crestron Digital Media Cable, 8G Shielded 4 Twisted	Crestron	DM-CBL-8G-NP	0.244	0.0467	CMR		No Kno	wn Option			Use DM-8G-CONN Conn
ROUP D -	LOUDSPEAKER LEVEL											
D1	Loudspeaker, 2 Conductor 12 AWG, Stranded	Belden	5000UP	0.312	0.0764	CL3	Belden	5000U1	0.320	0.0804	WB	
D2	Loudspeaker, 4 Conductor 12 AWG, Stranded	Belden	5002UP	0.365	0.1046	CL3	Belden	5002U1	0.370	0.1075	WB	
D3	Loudspeaker, 70 Volt, 2 Conductor 18 AWG, 7x26 Stranded	West Penn	224	0.156	0.0191	CMR	West Penn	AQ224	0.270	0.0572	CL3	

CMR

OFNR

0.183

0.184

FISD002R9

FI4D002R9

0.0263

0.0266

West Penn

Belden

0.327

0.184

FDSD002R9

FD4D002L9A

0.0839

0.0266

0.0266

CL3

OFNR

OFNR

1/4" = 1'-0"

1/8" = 1'-0"

CONDUIT SEPARATION TABLE-AV CONDUITS

## CONDITE CEDADATION TABLE ELECTRICAL

CONDUIT SEPARATION	N TABLE-ELECTRICA
	CONDUIT
AC BRANCH LOAD	36"
AC DIMMED LOAD	48"
AC FEEDER	36"
CONTROL (OTHER)	12"

### **CONDUIT SEPARATION NOTES**

1 1/2" = 1'-0"

1. THE AV SPECIFIC CONDUIT SEPARATION TABLE ABOVE REFLECTS BEST-CASE SCENARIOS, AND SHOULD BE ADHERED TO WHEN POSSIBLE. 2. ABSOLUTE MINIMUM SEPARATION FOR AV CONDUIT IS 4", IF ABOVE DISTANCES ARE NOT ACHIEVABLE. 3. ABSOLUTE MINIMUM SEPARATION BETWEEN AV AND ELECTRICAL POWER CONDUITS IS 36"

### **EXCEPTIONS**

1. SHOULD ELECTRICAL CONDUIT NEED TO CROSS AV CONDUIT, DO SO AT 90-DEGREES.

2. IF AV CONDUIT MINIMUM SEPARATION CANNOT BE MET (SUCH AS WHEN GOING THROUGH A NARROW CAVITY), CONDUIT MAY RUN IMMEDIATELY ADJACENT FOR NO MORE THAN 3'-0" IN ANY 50'-0" SPAN.

# CONDUIT SEPARATION TABLES NTS

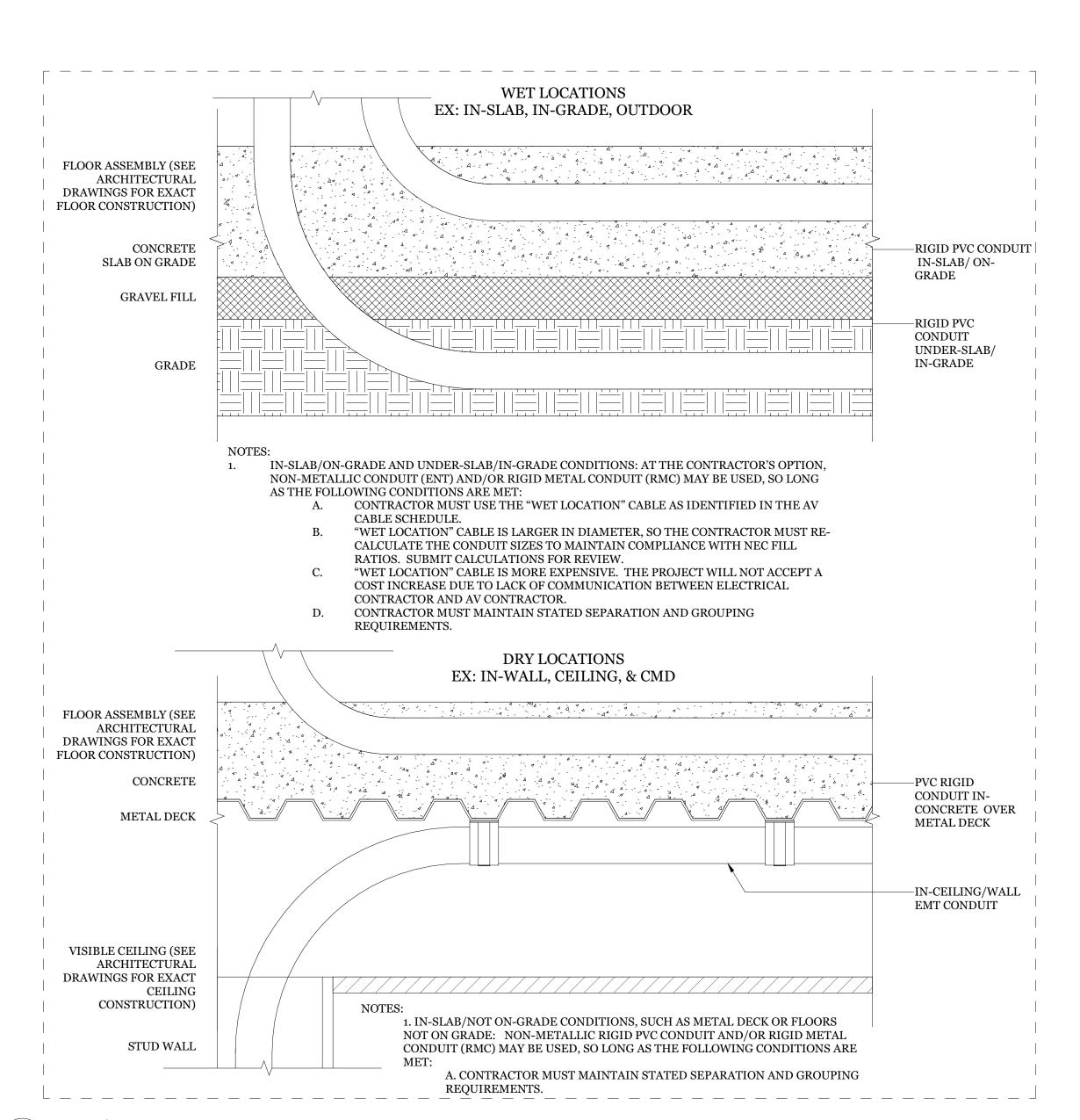
TEL/DATA

CONDUIT RUN LENGTH LIMITS-ELECTRICAL									
AV CONDUIT TYPE	MAX RUN LENGTH								
A	500'								
В	500'								
C	250'								
D	500'								
E	250'								
F	5000'								

CONDUIT RUN LENGTH LIMIT NOTES

1. C-TYPE CONDUIT CONTAINS IP BASED NETWORK CONNECTIONS THAT CAN NOT EXCEED 250' 2. IF CONDUIT RUN LENGTHS CAN NOT BE MAINTAINED, CONTRACTOR MUST SUBMIT RUN LENGTH FOR APPROVAL.

# CONDUIT RUN LENGTH LIMIT NOTES



4 WET/DRY CABLE SELECTION GUIDELINES

310 NOVA ALBION WAY SAN RAFAEL, CA 94903 TEL: 415.492.3200 FAX: 415.492.3229

# Revisions Revisions

**AGENCY APPROVAL** 

Shalleck Collaborative

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HY Architects Project number:

SAN RAFAEL HIGH SCHOOL 150 3RD STREET, SAN RAFAEL, CA 94901

COMMONS AUDIO VISUAL SYSTEM

AV WIRETYPE SCHEDULE AND CABLE/CONDUIT GUIDELINES

Client Project Number:

12" = 1'-0" Drawn By: GTEH AV0.02 Checked By: STK Issue Date: 09/26/2023

Revit Version: 2023 Sheet 2 of 6

Client Proj.#

WIRETYPE SCHEDULE

1 NTS

Loudspeaker, 70 Volt, 4 Conductor

Single-Mode Fiber, 2-strand 1310 μm, OS2,

18 AWG, 7x26 Stranded

E No Wiretypes, For Future Expansion.

Multi-Mode Fiber, 2-strand,

OM3 50/125 MM, DUPLEX, OFNR

GROUP E - EMPTY CONDUIT

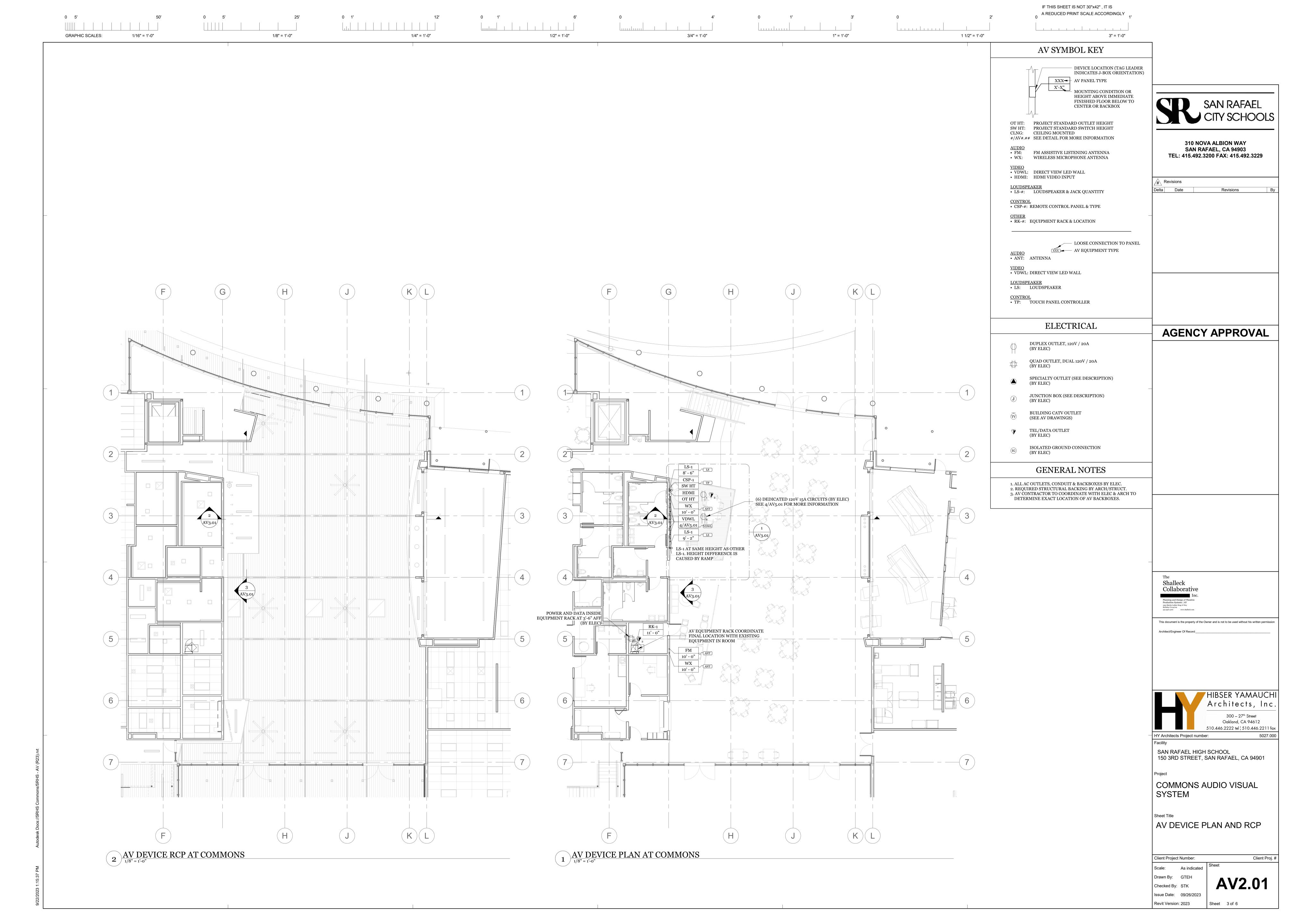
GROUP F - FIBER OPTIC LEVEL

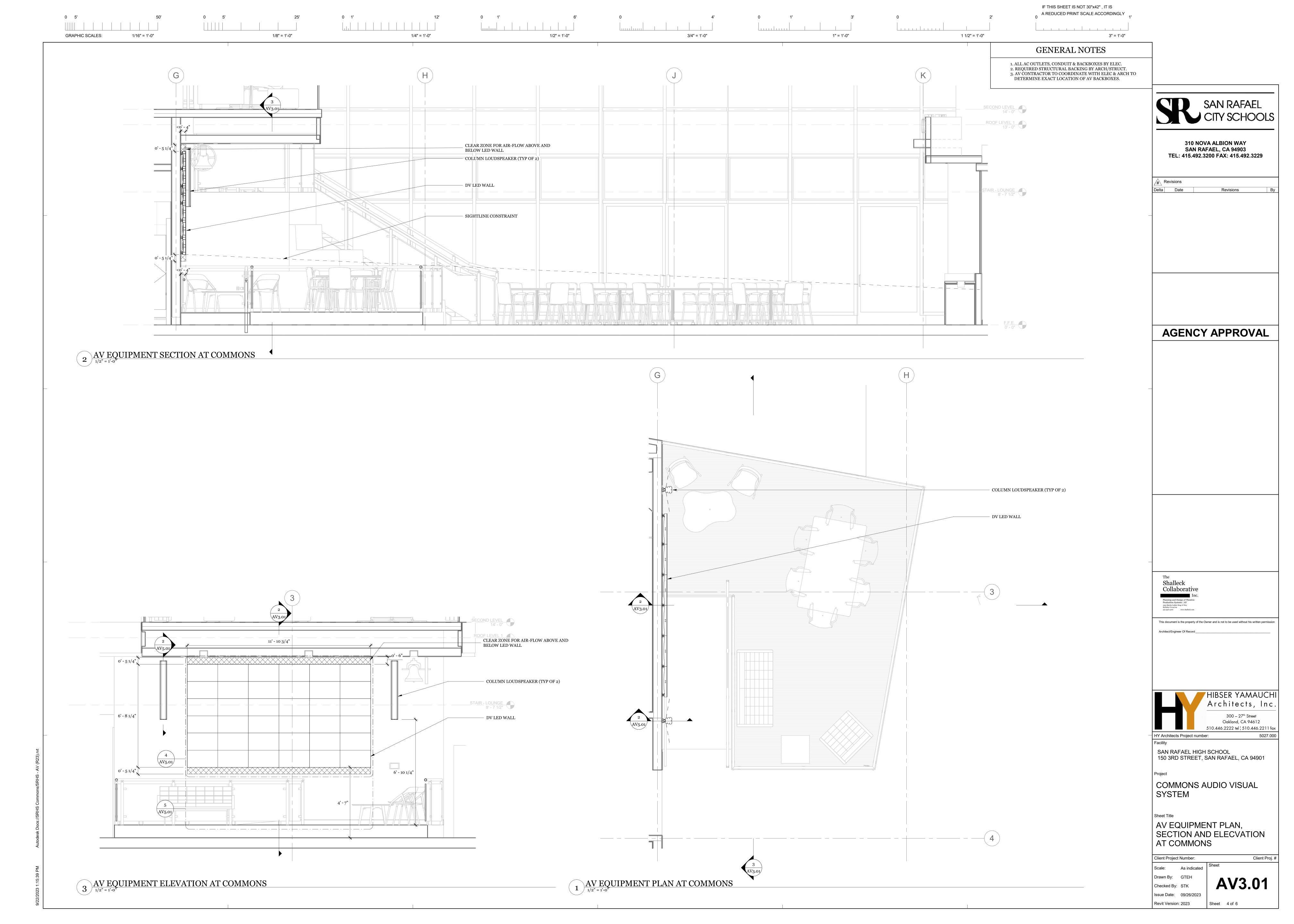
West Penn

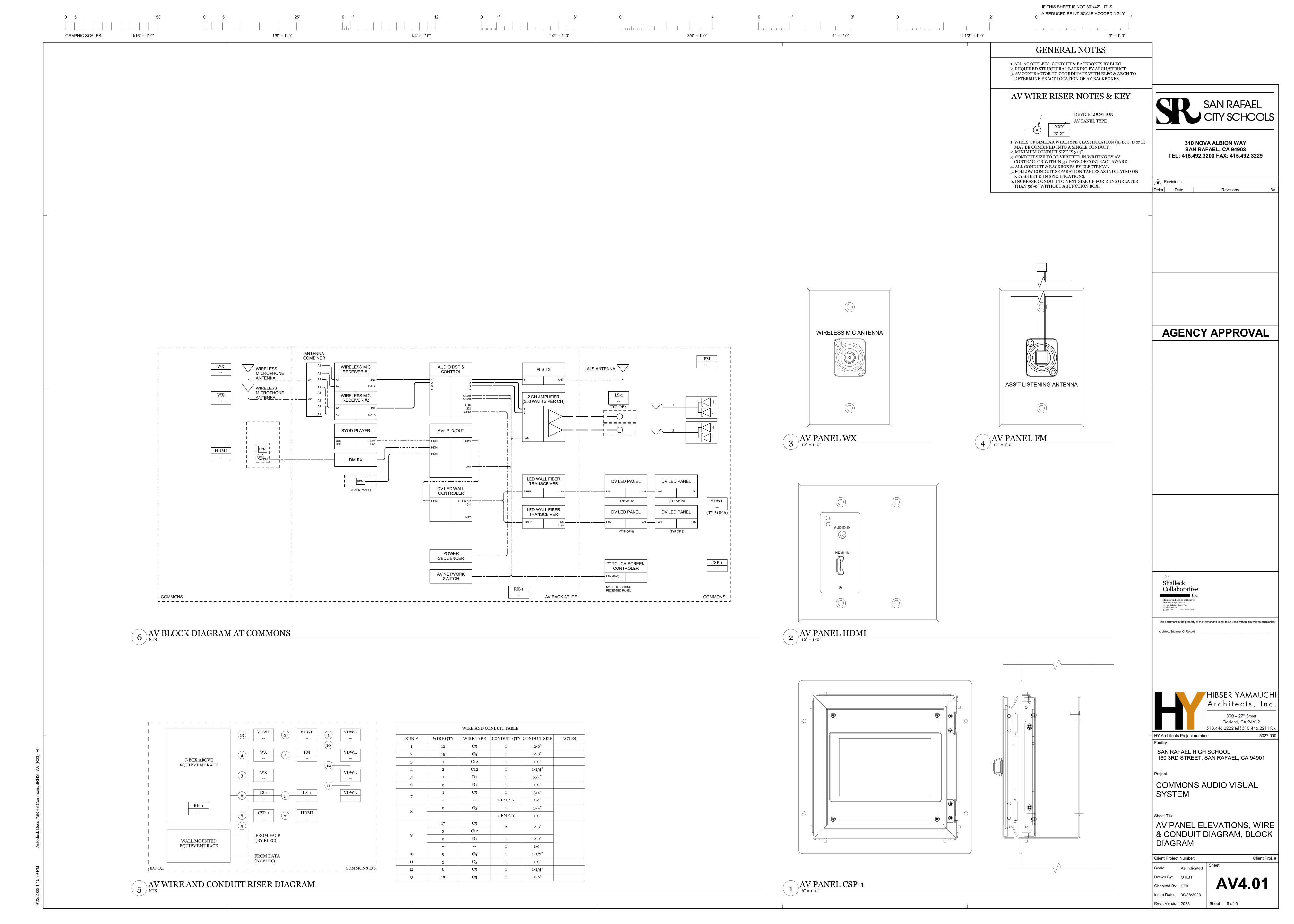
**GRAPHIC SCALES:** 

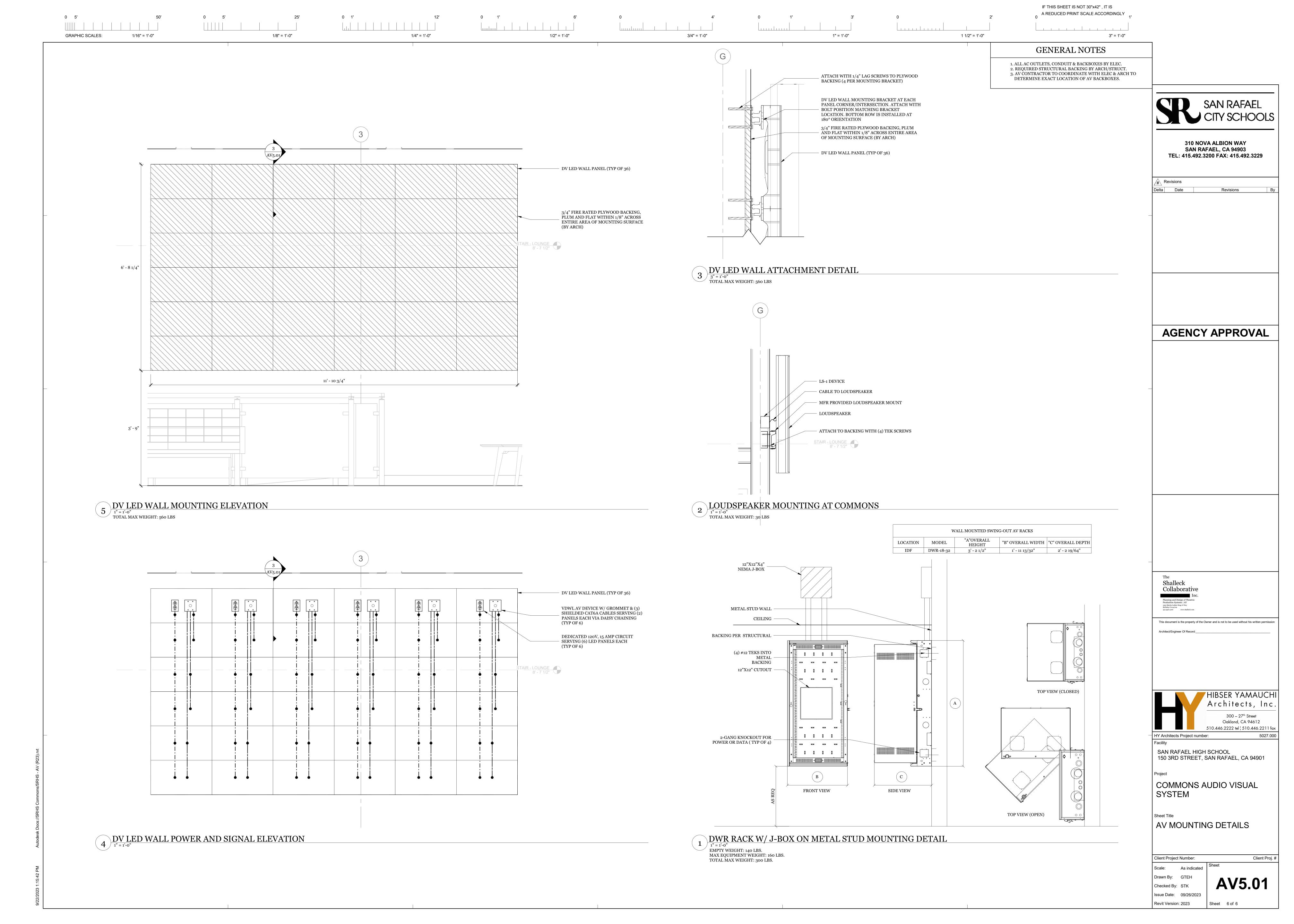
1/16" = 1'-0"

WIRETYPE SCHEDULE







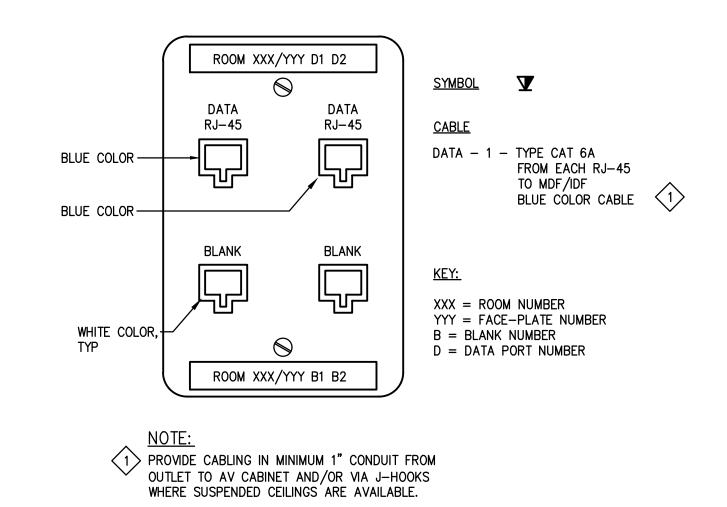


1/4" = 1'-0"

1/2" = 1'-0"

1/8" = 1'-0"

(E) PANEL LBP - SECTION 2												RECORDS 119		
DESCRIPTION	LOAD (KVA)								LOAD (KVA)				DESCRIPTION	
		REC. RES		MOT.	СВ	CKT	SN	CKT	СВ	LTG.	REC.	RES.	MOT.	DESCRIPTION
RECEPTS - COMMONS		0.18			20/1	43	*	44	20/1			1.00		FLUSH VALVES
RECEPTS - COMMONS		0.18			20/1	45	*	46	20/1			1.00		FLUSH VALVES
RECEPTS - COMMONS		0.18			20/1	47	*	48	20/1			1.00		WATER BOTTLE FILLER STATION
RECEPTS - STUDENT STORE		0.18			20/1	49	*	50	20/1			1.00		FACP/AMP
RECEPTS - STUDENT STORE		0.18			20/1	51	*	52	20/1			1.00		RPS
RECEPTS - ROOM 130		0.54			20/1	53	*	54	20/1				0.86	OVERHEAD COILING DOOR
RECEPTS - IDF		0.36			20/1	55	*	56	20/1					SPARE
RECEPTS - IDF		0.36			20/1	57	*	58	20/1					SPARE
RECEPTS - IDF		0.36			20/1	59	*	60	20/1					SPARE
RECEPTS - IDF		0.36			20/1	61	*	62	20/1					SPARE
SPARE					20/1	63	*	64	20/1			0.80		UC FRIDGE - NURSE 127
SPARE					20/1	65	*	66	20/1				1.10	HAND DRYER - WOMENS 122
SPARE					20/1	67	*	68	20/1				1.10	HAND DRYER - WOMENS 122
SPARE					20/1	69	*	70	20/1				1.10	HAND DRYER - MENS 123
SPARE					20/1	71	*	72	20/1				1.10	HAND DRYER - MENS 123
SPARE					20/1	73	*	74	20/1				1.10	HAND DRYER - ALL GENDER 133
SPARE					20/1	75	*	76	20/1				1.10	HAND DRYER - GIRLS 134
SPARE					20/1	77	*	78	20/1				1.10	HAND DRYER - GIRLS 134
SPARE					20/1	79	*	80	20/1				1.10	HAND DRYER - ALL GENDER 126
SPARE					20/1	81	*	82	20/1				1.10	HAND DRYER - BOYS 132
SPARE					20/1	83	*	84	20/1				1.10	HAND DRYER - BOYS 132
TOTAL		2.88										5.80	11.86	
VOLTS: 120/208V,3ø,4W MTG:	RECES	SED												
BUS: 225 AMP TYPE:	NQOD		_	SEC	TION 1	KVA:	29.	24		TOTA	AL KVA:	49	.78	_
MAIN: 150 AMP MB KAIC:	18		_	SEC	TION 2	KVA:	20.	54	CONN	IECTED	AMPS:	138	3.28	-



TYPICAL DATA OUTLET

### GENERAL ELECTRICAL NOTES

1" = 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 11B-308. 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.

3/4" = 1'-0"

- 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 SERVED WHERE ADDITIONS HAVE BEEN MADE.
- 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
- 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.
- MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE CALIFORNIA STATE FIRE MARSHAL. 14. ELECTRICAL CONTRACTOR SHALL REVIEW MECHANICAL AND PLUMBING CONTRACT DRAWINGS AND VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS, MOTOR SIZES

13. ALL CORRIDOR AND EXTERIOR WALL PENETRATIONS FOR PIPES, CONDUITS, ETC., IN WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. FIRE STOP

- AND CONTROL WIRING REQUIREMENTS WITH MECHANICAL CONTRACTOR AND MECHANICAL EQUIPMENT SUPPLIERS AND MANUFACTURERS PRIOR TO INSTALLATION OF ELECTRICAL CONNECTIONS.
- 15. 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.
- 16. PROVIDE AN ISOLATED GROUND WIRE IN ADDITION TO NORMAL EQUIPMENT GROUND IN ALL COMPUTER DEDICATED CIRCUITS. 17. 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. 18. 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.
- 19. ALL EQUIPMENT MUST BE LISTED, LABELED, OR CERTIFIED BY A NATIONAL RECOGNIZED TESTING LABORATORY (NRTL).
- 20. 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.
- 21. 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.
- 22. ALL CABINETS, DISCONNECT SWITCHES, PULLBOXES, AND TERMINAL BOXES SHALL BE PROVIDED WITH LABELING SYSTEM TO IDENTIFY THE PANEL AND ITS USE. SEE
- 23. 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.
- 24. 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.
- 25. ALL EQUIPMENT GROUNDING SHALL CONFORM TO ARTICLE 250 OF THE NATIONAL ELECTRIC CODE, LATEST EDITION.
- 26. 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.
- 27. ALL CONDUIT SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.

SPECIFICATIONS FOR REQUIREMENTS.

- 28. ALL UNDERGROUND CONDUIT RUNS SHALL BE SEALED TO PREVENT GAS/MOISTURE ENTERING THE PIPE PER ARTICLE 230-8, 300.5 AND 300.50E.
- 29. PROVIDE EXPANSION FITTINGS AND/OR CONDUIT FLEX TO CONDUITS PASSING THROUGH STRUCTURAL EXPANSION JOINT SYSTEM. VERIFY/COORDINATE WITH ARCHITECT FOR LOCATION.
- 30. 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.
- 31. ALL RACEWAY PASSING THROUGH EXPANSION JOINT AREA SHALL BE PROVIDED WITH EXPANSION JOINT FITTINGS AND/OR FLEX CONDUIT AS REQUIRED.
- 32. ALL EXTERIOR MOUNTED GFI RECEPTACLE OUTLETS TO BE PROVIDED WITH LOCKABLE COVERS, TAYMAC MX3200.
- 33. 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.
- 34. ALL EQUIPMENT/COMPONENTS/DEVICES INSTALLED OUTDOOR SHALL BE U.L. LISTED FOR WET LOCATION.
- 35. THE CONTRACTOR SHALL VERIFY WITH THE ARCHITECTURAL DRAWINGS ALL LOCATIONS AND DIMENSIONS OF DEVICES/EQUIPMENT PRIOR TO ROUGH-IN.
- 36. 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.
- 37. MEP COMPONENT ANCHORAGE NOTES:
- 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 2022 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 OR MOVABLE 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 FLEXIBLE CABLE.
- 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 NEED NOT DEMONSTARTE

3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE

- 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
- 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 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND
- 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 ☒ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES

AND DETAILS.

MP MD PP E X - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #0043-13, 0052-13, 0063-13 AND SHALL BE KEPT ONSITE DURING CONSTRUCTION.

### **ELECTRICAL SYMBOL LIST**

3" = 1'-0"

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

NOTE: DASHED SYMBOLS ON PLANS DENOTE EXISTING DEVICES 20A, 125V, 3W GROUNDING TYPE DUPLEX RECEPTACLE, +18" U.O.N.

20A, 125V, 3W GROUNDING TYPE, FOURPLEX RECEPTACLE, +18" U.O.N.

JUNCTION BOX, CEILING OR WALL MOUNTED - SIZED PER CODE

DATA OUTLET +18" U.O.N.

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

CONDUIT DOWN

CODE SIZE CONDUIT) ETC.

\_\_\_\_

1 1/2" = 1'-0"

ANY BRANCH CIRCUIT CONDUIT SHALL BE MINIMUM 3/4"C - 2#12, 1#12 GREEN GROUND UNLESS OTHERWISE NOTED. FOR A GREATER NUMBER OF #12 WIRES: ( — +++ = 3/4"C - 3#12, 1#12G) ETC. FOR WIRE SIZES OTHER THAN #12: (  $\frac{}{}$  = 3#8, 1#12G), (GROUND SIZED PER CEC, IN

**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

REMOTE POWER SUPPLY

PULL BOX

SEE ARCHITECTURAL DRAWINGS

SIGNAL TERMINAL CABINET

TELECOMMUNICATIONS MAIN GROUNDING BUS BAR

NUMBERED ELECTRICAL NOTE

TELEPHONE TERMINAL BOARD WP WEATHERPROOF

UNDERGROUND

UNLESS OTHERWISE NOTED U.O.N. VERIFY IN FIELD

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#\ Revisions

Revisions

**AGENCY APPROVAL** 

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23-022

This document is the property of the Owner and is not to be used without his written

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HY ARCHITECTS JOB NUMBER

SAN RAFAEL HIGH SCHOOL 150 3RD STREET, SAN RAFAEL, CA 94901

**COMMONS AUDIO VISUAL** SYSTEM

ELECTRICAL SYMBOLS. NOTES AND

SCHEDULES

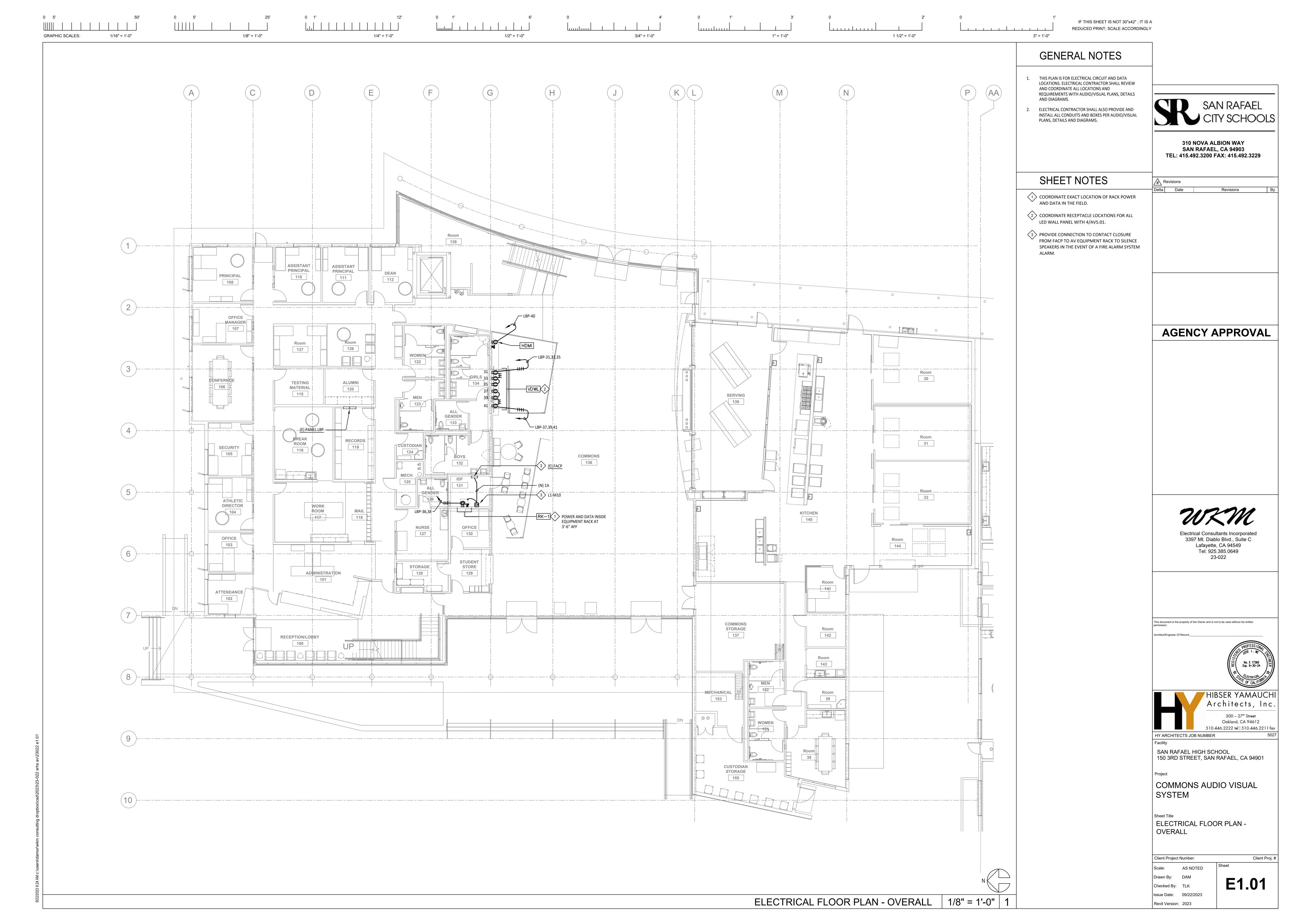
Client Proj. #

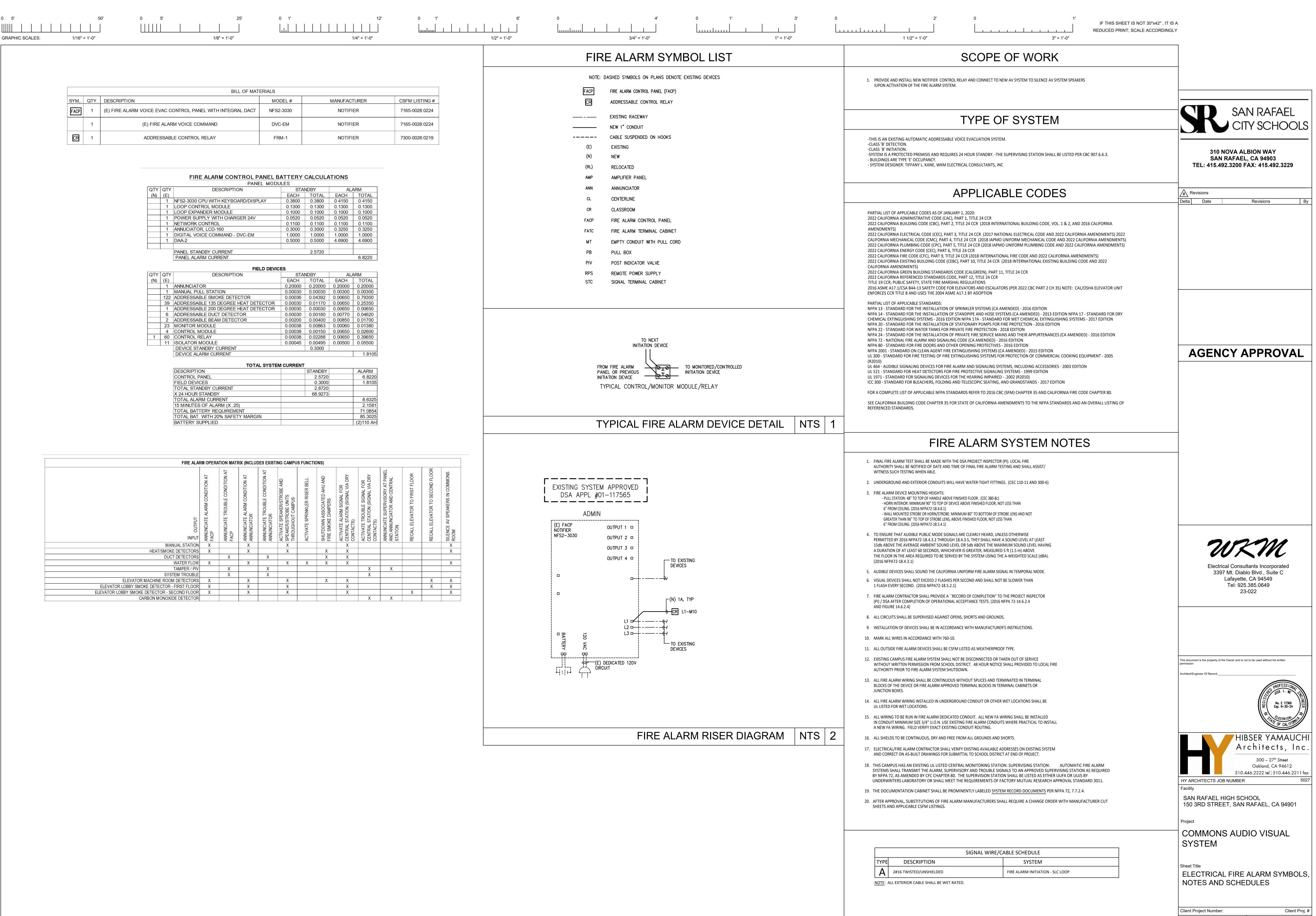
Client Project Number: AS NOTED

Drawn By: DAM E0.01 Checked By: TLK Issue Date: 09/22/2023 Revit Version: 2023

**GRAPHIC SCALES:** 

1/16" = 1'-0"





AS NOTED Drawn By: DAM

Issue Date: 09/22/2023 Revit Version: 2023

Checked By: TLK