CTE ROBOTICS CLASSROOM UPGRADE - NOGALES HIGH SCHOOL

GENERAL ABBREVIATIONS AND SYMBOLS

AND ANGLE AT CENTERLINE DIAMETER OR ROUND PERPENDICULAR POUND OR NUMBER ANCHOR BOLT A.B. A/C AIR CONDITIONING A.C. ASPHALTIC CONCRETE ACOUS. ACOUSTICAL A.D. AREA DRAIN ADDITION ADDN. ADJUSTABLE ADJ. AGGREGATE AGGR. ALUMINUM ALT. ALTERNATE APPROX. APPROXIMATE ARCH ARCHITECTURAL ASPH. ASPHALT AVE. AVENUE BOARD BLDG. BUILDING BLOCK BLK. BLKG. BLOCKING B.M. BENCH MARK BM. BEAM BOT. BOTTOM BETWEEN BTWN. B.W. BOTH WAYS CAB. CABINET C.B. CATCH BASIN CBA CONCRETE BLOCK ANCHORAGE CEM. CEMENT CER. CERAMIC CH.BD. CHALKBOARD CAST IRON C.I. C.J. CONTROL JOINT CLG. CEILING CLO. CLOSET CLR. CLEAR C.M.U. CONCRETE MASONRY UNIT CNTR. COUNTER COL. COLUMN CONC. CONCRETE CONN. CONNECTION CONST. CONSTRUCTION CONT. CONTINUOUS CORR. CORRIDOR C.T. CERAMIC TILE CPT. CARPET CTR. CENTER CTSK. COUNTERSINK DOUBLE DBL DEPT. DEPARTMENT DET. DETAIL D.F. DRINKING FOUNTAIN DIA. DIAMETER DIAG. DIAGONAL DIM. DIMENSION DISP. DISPENSER DISPOS. DISPOSAL DN. DOWN D.O. DOOR OPENING DR. DOOR DS. DOWNSPOUT D.S.P. DRY STANDPIPE D.T.J. DEEP TOOLED JOINT DWG. DRAWING DWR. DRAWER EXISTING EAST EACH EA. E.C.W. EXISTING COLD WATER E.J. EXPANSION JOINT EL. ELEVATION ELEC. ELECTRICAL EMER. EMERGENCY ENCL. ENCLOSURE E.P. ELECTRICAL PANELBOARD EQ. EQUAL EQPT. EQUIPMENT E.S. EXISTING SEWER EXP. EXPANSION EXPO. EXPOSED EXT. EXTERIOR ELECTRIC WATER COOLER E.W.C. F.A. FIRE ALARM F.D. FLOOR DRAIN FDN. FOUNDATION F.E. FIRE EXTINGUISHER F.E.C. FIRE EXTINGUISHER CABINET F.F. FINISH FLOOR F.H. FIRE HYDRANT F.H.C. FIRE HOSE CABINET F.H.M.S. FLAT MACHINE SCREW F.H.W.S. FLAT HEAD WOOD SCREW FIN. FINISH FIX. FIXTURE FLOW LINE F.L. FLASH. FLASHING FLR. FLOOR FLUOR. FLUORESCENT F.O.C. FACE OF CONCRETE F.O.F. FACE OF FINISH F.O.M. FACE OF MASONRY F.O.S. FACE OF STUDS FPRF. FIREPROOF F.R. FIRE RATED F.S. FLOOR SINK FOOT OR FEET FT. FTG. FOOTING FURR. FUT. FURRING FUTURE

GA.	GAGE
GALV.	GALVANIZED
G.B.	GRAB BAR
G.I.	GALVANIZED IRON
GL.	GLASS
GND.	GROUND
GR.	GRADE
GYP.	GYPSUM
GYP. WBD.	GYPSUM WALLBOARD
H.B.	HOSE BIBB
H.C.	HOLLOW CORE
HDW.	HARDWARE
HDWD.	HARDWOOD
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
HR.	HOUR
HT.	HEIGHT
IC.	INTERCOM
I.D.	INSIDE DIAMETER (DIM.)
INSUL.	INSULATION
INT.	INTERIOR
INV.	INVERT
JAN.	JANITOR
JT.	JOINT
KIT.	KITCHEN
KO.	KNOCKOUT
LAB.	LABORATORY
LAM.	LAMINATE
LAV.	LAVATORY
LB.	POUND
L.F.	LINEAR FOOT/FEET
LIB.	LIBRARY
LKR.	LOCKER
MACH. MATL. MAX. MEZZ. M.C. M.D.O. MECH. MEMB. MFG. MFR. MIN. MIN. MIN. MIN. MIN. MIN. MIN. MIN	MACHINE MATERIAL MAXIMUM MEZZANINE MEDICINE CABINET MEDIUM DENSITY OVERLAY MECHANICAL MEMBRANE MANUFACTURING MANUFACTURER MANHOLE MINIMUM MIRROR MISCELLANEOUS MOUNTED MULLION METAL
(N)	NEW
N.	NORTH
NAT.	NATURAL
N.I.C.	NOT IN CONTRACT
NO. OR #	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
OA. OBS. O.C. O.D. O.F.C.I. O.F.O.I. OFF. OPNG. OPP. ORIG.	OVERALL OBSCURE ON CENTER OUTSIDE DIAMETER (DIM.) OWNER FURNISHED CONTRACTOR INSTALLED OWNER FURNISHED OWNER INSTALLED OFFICE OPENING OPPOSITE ORIGINAL
PL.	PLATE
P.LAM.	PLASTIC LAMINATE
PLAS.	PLASTER
PLYWD.	PLYWOOD
PNL.	PANEL
POL.	POLISH
PR.	PAIR
PRCST.	PRE-CAST
P.S.F.	PRE-FINISHED STEEL FRAME
P.S.I.	POUNDS PER SQUARE INCH
PT.	POINT
P.T.D.	PAPER TOWEL DISPENSER
P.T.D./R.	COMBINATION PAPER TOWEL
PTN.	DISPENSER & RECEPTACLE
P.T.R.	PARTITION
Q.T.	PAPER TOWEL RECEPTACLE
Q.1. R. RAD. REF. REFR. REFR. RETR. REINF. REQ'D. RESIL. REV. R.H.M.B. R.H.W.S. RM. RND. R.ND. R.O. RWD.	RISER RADIUS ROOF DRAIN REFERENCE REFRIGERATOR REGISTER REINFORCED REQUIRED RESILIENT REVISE ROUND HEAD MACHINE BOLT ROUND HEAD WOOD SCREW ROOM ROUND ROUND OPENING REDWOOD

SECTION SQUARE FOOT/FEET SHELF SHOWER SHEET SIMILAR SAWED (CONTROL) JOINT SHEET METAL SCREW SANITARY NAPKIN DISPENSER SANITARY NAPKIN RECEPTACLE SPECIFICATION SQUARE SERVICE SINK STAINLESS STEEL STATION STANDARD STEEL STORAGE STRUCTURAL SUSPENDED SYMMETRICAL
TOWEL BAR TOP OF CURB TOP OF CATCH BASIN TELEPHONE TERRAZZO TONGUE AND GROOVE THICK TOP OF CONCRETE TOP OF CONCRETE TOP OF MASONRY TOP OF STEEL TOP OF PLATE/PARAPET TOP OF PLATE/PARAPET TOP OF PAVEMENT TOILET PAPER DISPENSER TREAD TOP OF SHEATHING TELEVISION TOP OF WALL TYPICAL
UNDER CUT UNDERGROUND UNFINISHED UNLESS NOTED OTHERWISE URINAL
VINYL COMPOSITION TILES VENTILATE(R) VERTICAL VESTIBULE VERTICAL GRAIN DOUGLAS FIR VERIFY IN FIELD VOLUME
WEST WITH WATER CLOSET WOOD WINDOW WATER HEATER WITHOUT

SOUTH SOLID CORE

SECTION

SEAT COVER DISPENSER

SOAP DISPENSER

S.C.

S.C.D.

S.D. SECT. S.F.

SH. SHR. SHT.

SIM.

S.J.

S.M.S.

S.N.D.

S.N.R.

SPEC. SQ.

S.SK. SST.

STA. ' STD.

STL.

STOR.

STRUCT.

SUSP. SYM.

T.B.

T.C.

TEL.

TCB

TER. T.&G. THK.

T.O.C.

T.P.

T.P.D.

TRD.

T.S. T.V.

T.W. TYP.

U.C.

UG.

UNF. U.N.O.

UR.

V.C.T.

VENT.

VERT.

VEST.

V.I.F.

VOL.

W.

W/

W.C.

WD.

WDO.

W.H.

W/O

W.R.

WSCT. WT.

WP.

V.G.D.F.

T.O.M. T.O.S. T.O.P.

WATERPROOFING WATER RESISTANT WAINSCOT WEIGHT W.W.F. WELDED WIRE FABRIC

for ROWLAND UNIFIED SCHOOL DISTRICT

CO-AR PROJECT NO. : 202015

PTN : 73452-161		
APPLICABLE CODES	GENERAL NOTES	
ALL WORK PERTAINING TO AND ALL MATERIALS SUPPLIED FOR EXECUTING AND COMPLETING THIS CONTRACT SHALL COMPLY WITH PROVISIONS SPECIFIED IN THE CONTRACT DOCUMENTS AND WITH ALL APPLICABLE LAWS, REGULATIONS AND ORDINANCES GOVERNING WORK INCLUDING, BUT NOT NECESSARILY LIMITED TO THOSE OF: PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2020* 2019 California Administrative Code (CAC), Part 1, Title 24 CCR* 2019 California Building Code (CBC), Part 2, Title 24 CCR	1. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO THE SUBMISSION OF BID AND THOR FAMILIARIZE HIMSELF WITH THE WORKING CONDITIONS AND THE EXACT NATURE AND OF THE WORK. HE SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON DRAY AND SHALL NOTIFY THE ARCHITECT OF ANY OMISSION AND/OR DISCREPANCIES AND C A WRITTEN DECISION. SUBMISSION OF A BID ACKNOWLEDGES FULL RESPONSIBILITY FO FURNISHING A COMPLETE AND FUNCTIONAL SYSTEM. NO CHANGES IN THE CONTRAC BE ENTERTAINED TO ACCOMMODATE OR ALLOW EXTRA FUNDS FOR ANY OMISSION RE	
 (2018 International Building Code, Vol. 1 & 2, and 2019 California amendments) 2019 California Electrical Code (CEC), Part 3, Title 24 CCR (2017 National Electrical Code and 2019 California Amendments) 2019 California Mechanical Code (CMC), Part 4, Title 24 CCR 	 FROM FAILURE TO THOROUGHLY EXAMINE THE SCOPE OF WORK. CONTRACTOR SHALL CONFIRM ALL SUBSTRATE CONDITIONS IN FIELD AT COMPLETION DEMOLITION, AND NOTIFY THE ARCHITECT, IN WRITING, OF ANY DEVIATION FROM THE CONDITIONS SHOWN IN THE DRAWINGS. 	
(2018 IAPMO Uniform Mechanical Code and 2019 California amendments) 2019 California Plumbing Code (CPC), Part 5, Title 24 CCR (2018 IAPMO Uniform Plumbing Code and 2019 California amendments)	3. THE CONTRACTOR SHALL ARRANGE FOR TIMELY INSPECTIONS AT EACH STAGE OF WOR	
 2019 California Energy Code (CEC), Part 6, Title 24 CCR 2019 California Fire Code (CFC), Part 9, Title 24 CCR (2018 International Fire Code and 2019 California Amendments) 2019 California Existing Building Code (CEBC), Part 10, Title 24 CCR (2018 International Existing Building Code and 2019 California Amendments) 	 REQUIRED. 4. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE RECOMMENDATION AND SPECIFICATIONS OF THE MANUFACTURER OF THE PRODUCT BEING USED FOR A COMPLETE AND PROPER INSTALLATION. 	
 2019 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR 2019 California Referenced Standards Code, Part 12, Title 24 CCR Title 19 CCR, Public Safety, State Fire Marshal Regulations 2016 ASME A17.1/CSA B44-13 Safety Code for Elevators and Escalators (per 2019 CBC Part 2 Ch 35) Note: Cal/OSHA Elevator Unit enforces CCR Title 8 and uses the 2004 ASME A17.1 by adoption 	5. DO NOT SCALE THE DRAWINGS. USE REFERENCED OR NOTED DIMENSIONS ONLY. LAR SCALE DETAILS GOVERN OVER SMALLER SCALE DETAILS. WHERE NO SPECIFIC DETAIL IS SHOWN, THE CONSTRUCTION SHALL BE THE SAME AS THAT WHICH ALREADY EXISTS IN BUILDING.	
PARTIAL LIST OF APPLICABLE STANDARDS NFPA 13 - Standard for the Installation of Sprinkler Systems (CA amended)2016 Edition NFPA 14 - Standard for the Installation of Standpipe and Hose Systems (CA amended)2016 Edition	6. CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL WORK BETWEEN THE DIFFEREN TRADES TO INSURE PROPER SEQUENCE OF WORK WHEREVER O.F.C.I. OR O.F.O.I. WORK SHOWN.	
NFPA 17 - Standard for Dry Chemical Extinguishing Systems	7. ALL EQUIPMENT USED IN THIS PROJECT SHALL BEAR THE APPROVAL LABEL OF U.L. OR C AGENCY-APPROVED TESTING LABORATORY ACCEPTABLE TO THE ARCHITECT.	
NFPA 22 - Standard for Water Tanks for Private Fire Protection	8. CONTRACTOR SHALL MAINTAIN A COMPLETE AND UPDATED SET OF BIDDING DOCUME DRAWINGS AND SPECIFICATIONS) INCLUDING ALL APPROVED SHOP DRAWINGS, SUBMI CHANGE DIRECTIVES, AND RFI RESPONSES AT JOB SITE.	
 NFPA 80 - Standard for Fire Doors and Other Opening Protectives	9. UNLESS NOTED OTHERWISE, CONTRACTOR SHALL FURNISH SHOP DRAWINGS, EQUIPMI MATERIAL SUBMITTAL, AND SPECIFICATIONS FOR REVIEW BY THE ARCHITECT, PRIOR TO FABRICATION OR DELIVERY OF SUCH EQUIPMENT OR MATERIAL.	
 UL 464 - Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories	10. THE EQUIPMENT MANUFACTURER OR PRODUCT BRAND SPECIFIED IS USED AS THE MIN QUALITY AND STANDARD REQUIRED BY OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE PROOF THAT THE SUBSTITUTION IS OF EQUAL OR BETTER QUALITY IF SUBSTITUTION IS PROPOSED. THE ARCHITECT'S REVIEW OF SUBSTITUTION REQUEST, BASED ON THE INFORMATION SUBMITTED, SHALL BE FINAL.	
For a complete list of applicable NFPA standards refer to 2019 CBC (SFM) Chapter 35 and California Fire Code Chapter 80.	11. NO EQUIPMENT OR MATERIAL CONTAINING HAZARDOUS MATERIAL AS DEFINED BY STA CALIFORNIA SHALL BE USED IN THIS PROJECT.	
See California Building Code Chapter 35 for State of California amendments to the NFPA Standards. *All parts of the 2019 California Building Code become effective January 1, 2020 except the effective date for the use of the 2019 Building Energy Efficiency Standards (Title 24, Part 1, Chapter 10) is January 8, 2019 and the effective date for the use of the California Administrative Code (Title 24, Part 1, Chapter 4) is January 8, 2019.	12. THE CONTRACTOR SHALL TAKE ALL MEASURES TO PROTECT AND SAFEGUARD ALL EXIST BUILDING ELEMENTS AGAINST DAMAGE FROM INCLEMENT WEATHER CONDITIONS AND CONSTRUCTION OPERATIONS BOTH DURING JOB HOURS AND NON WORKING HOURS. DAMAGE SHOULD OCCUR TO THE EXISTING BUILDING AS A RESULT OF THE ABOVE, THE CONTRACTOR SHALL REPAIR, REPLACE AND CLEAN AT NO COST TO THE SCHOOL DISTR	
r, Chapter 4) is January 6, 2019.	13. IF ANY EQUIPMENT OR UTILITY SHUTDOWN IS REQUIRED, THE CONTRACTOR SHALL GIN NOTICE IN WRITING THE SCHOOL DISTRICT COORDINATOR NOT LESS THAN FIVE (5) WO DAYS PRIOR TO THE SHUTDOWN, U.N.O.	
	14. THE CONTRACTOR SHALL LEAVE THE WORK AREA CLEAN AND FREE OF DEBRIS AT THE E EACH WORK DAY. UPON COMPLETION OF THE WORK HE SHALL REMOVE ALL SURPLUS MATERIALS, EQUIPMENT, AND DEBRIS INCIDENTAL TO THIS CONTRACT AND LEAVE THE PREMISES CLEAN AND ORDERLY.	
SPECIAL NOTES	15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SAFETY BA AND SHALL NOT BLOCK FIRE EXITS WITHOUT APPROVAL OF/AND COORDINATION BY TH SCHOOL DISTRICT AND FIRE AUTHORITIES.	
 CONTRACTOR SHALL COORDINATE WITH DISTRICT MAINTENANCE DIRECTOR OR SCHOOL PRINCIPAL FOR ALL HOURS OF OPERATION ALLOWED. EXACT AREA OF CONSTRUCTION AND FENCING REQUIREMENT SHALL BE AS DIRECTED BY DISTRICT. 	16. PRIOR TO ANY NEW FIRE PROTECTION WORK AND/OR ALTERATIONS TO ANY EXISTING PROTECTION SYSTEM, THE CONTRACTOR MUST NOTIFY THE DISTRICT AT LEAST 72 HOU ADVANCE.	
2. ALL KEY NOTES APPLY ONLY TO THE SHEET IT IS ON AND SHOULD NOT BE CROSS REFERENCED WITH ANY OTHER SHEETS.	17. AS A CONDITION OF FINAL ACCEPTANCE AND FINAL PAYMENT, THE CONTRACTOR SHAL SUBMIT TO THE SCHOOL DISTRICT (1) CLEAN SET OF DRAWINGS INDICATING ALL CHAN DEVIATIONS FROM THE CONTRACT SET OF DRAWINGS. THEY SHALL BE IDENTIFIED AS "RECORD" DRAWINGS AND SIGNED AND DATED BY THE CONTRACTOR. IN ADDITION, T CONTRACTOR SHALL ALSO FURNISH (1) COMPLETE SET OF OPERATING AND MAINTENA INSTRUCTIONS INCLUDING PARTS MANUALS FOR ALL EQUIPMENT OF ALL TYPES BOUN HARDBOARD BINDER AND INDEXED, AND AS NOTED IN SPECIFICATIONS.	
	18. CONTRACTOR SHALL NOT SAWCUT OR CORE DRILL A CONC. FLOOR, WALL, ROOF, OR C WITHOUT FIRST SECURING THE APPROVAL FROM THE OWNER, ARCHITECT, CONSTRUCT MANAGER AND DSA. ALL PENETRATIONS CAUSED BY THIS WORK SHALL BE TREATED FO TIGHT SEAL BY THIS CONTRACTOR USING A MATERIAL OF THE SAME INTEGRITY AS THE EXISTING WALLS OR FLOOR BEFORE PENETRATION.	
	19. CONTRACTOR SHALL CONDUCT AT LEAST ONE WEEKLY SAFETY MEETING WITH HIS WO AND SHALL DILIGENTLY USE ANY OR ALL OTHER SAFEGUARDS TO PREVENT JOB RELATE HAZARDOUS CONDITIONS TO SCHOOL OCCUPANTS.	
	20. ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO F HORIZONTAL FORCE ACTING IN ANY DIRECTION PER CALIFORNIA BUILDING CODE. WH ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION S BE SUBJECT TO THE APPROVAL OF THE MECHANICAL OR ELECTRICAL ENGINEER AND TH REPRESENTATIVE OF THE DIVISION OF STATE ARCHITECT.	
GRAPHIC SYMBOLS	21. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND IRRIGATION AND ULINES WITHIN CONSTRUCTION AREA PRIOR TO COMMENCING WORK. CONTRACTOR S RESPONSIBLE TO RE-ROUTE AND/OR CAP (E) IRRIGATION AND UTILITY LINES IN THE PRO AREA AS DIRECTED BY OWNER.	
	22. SEE CALIFORNIA FIRE CODE, CHAPTER 33 FOR FIRE SAFETY DURING CONSTRUCTION	
X Y BUILDING/WALL SECTION REFERENCE 6 CONSTRUCTION NOTE	23. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISIO THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PARAGRAPH 1, TITLE 24, CCR.	
X DETAIL REFERENCE BREAK LINE	24. A PROJECT INSPECTOR W/ CLASS 3 CERTIFICATION, EMPLOYED BY THE DISTRICT (OWNE APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE INSPECTION OF WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 2	
Y 14.14'	25. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE SCHOOL BOARD S CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.	
JANITOR ROOM NAME SPOT ELEVATION	26. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE	

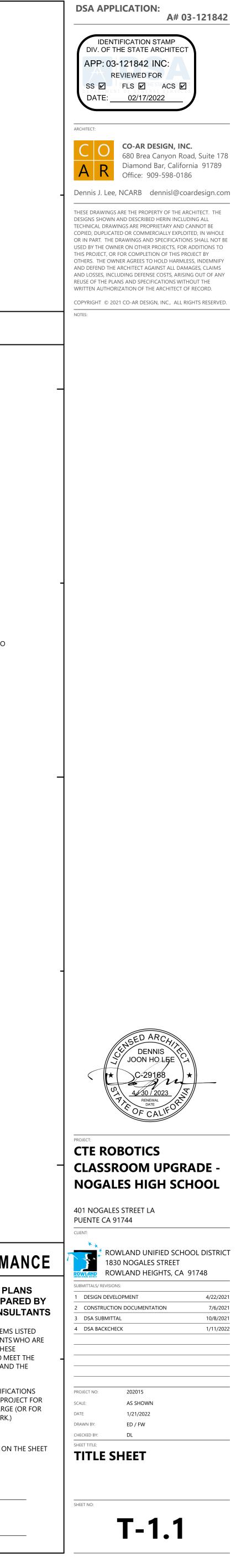
26. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NO COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DO OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING TH REQUIRED WORK SHALL BE SUBMITTED TO, AND APPROVED BY THE DSA BEFORE PROVED BY THE DSA BEFORE PRO WITH THE WORK.

 $\left(\mathsf{G6} \right)$ DOOR NUMBER

ROOM NUMBER

G-6

SCOPE OF WOR	RK	SHEET INDEX	
GHLY TENT INGS AIN 1. ALTERATION TO EXISTING WOOD SHO CLASSROOM - INCLUDING ACCESSIBIL PARTITION WALL, POWER/ DATA OUTLI 2. REPLACEMENT OF (1) ROOF TOP A.C. U //ILL TED 2. REPLACEMENT OF (1) ROOF TOP A.C. U //ILL TED 2. REPLACEMENT OF (1) ROOF TOP A.C. U //ILL TED 2. REPLACEMENT OF (1) ROOF TOP A.C. U //ILL TED 5. //ILL 5. //ILL 2. REPLACEMENT OF (1) ROOF TOP A.C. U //ILL 5. //ILL 5. //ILL 5. //ILL 5. //ILL 6. //ILL 5. //ILL 5. <td>PCLASSROOM - CONVERT TO CTE ROBOTICS TY UPGRADE OF EXISTING RESTROOMS, LOW TS, & FLOOR & WALL FINISHES. NIT PER MECHANICAL DRAWINGS 200 201 202 203 204 204 205 205 206 206 206 2144 SF 5' 2 STORIES 5' 1 STORY 2LASROOM: 12,144 / 20 = 608 204 SAR, CA 91789 CONTACT: DENNIS J. LEE, R. CONTACT: LESLIE TSO, S. PH. (909) 598-018 CONTACT: LESLIE TSO, S. PH. (510) 788-602 CONTACT: JIA PAN, P. PH. (510) 788-602 CONTACT: JIA MAY, FONG, P.</td> <td>GENERAL DRAWINGS T-1.1 TITLE SHEET ARCHITECTURAL DRAWINGS A-1.1 SITE PLAN A-2.2 DEMO & PROPOSED FLOOR F A-2.3 POWER/ DATA & FINISH FLOC A-2.4 ROOF PLAN & SECTIONS A-4.1 INTERIOR ELEVATIONS A-4.1 INTERIOR ELEVATIONS A-4.2 RESTROOM INTERIOR ELEVATIONS A-5.1 ARCHITECTURAL DETAILS A-5.1 SCHEDULES STRUCTURAL DRAWINGS S-1.1 GENERAL NOTES, TYP. DETAIL S-2.1 PARTIAL ROOF FRAMING PLAN M-0.1 MECHANICAL GENERAL NOTI M-0.2 MECHANICAL PRESCRIPTIVE TO M-0.3 MECHANICAL PRESCRIPTIVE TO M-0.4 MECHANICAL PRESCRIPTIVE TO M-0.5 MECHANICAL PRESCRIPTIVE TO M-0.6 MECHANICAL PRESCRIPTIVE TO M-0.7 PARTIAL GROUND FL. MCHAN M-0.8 PLUMBING GENERAL NOTES M-0.9 PARTIAL GROUND FL. MCHAN M-0.9 PARTIAL GROUND FL. MCHAN M-0.9 PARTIAL GROUND FL. MCHAN M-1 PLUMBING GENERAL NOTES</td> <td>IG. PLANS DR PLANS TIONS S, FLOOR PLAN & SECTIONS N, SECTIONS & DETAILS ES TITLE 24 COMPLIANCE TITLE 24 COMPLIANCE TITLE 24 COMPLIANCE NICAL REFLECTED CEILING PLAN - DEMO PLANS AND INFORMATION TIC WATER AND GAS PIPING PLANS AND VENT PIPING PLANS AN AL NOTES, AND DETAIL S</td>	PCLASSROOM - CONVERT TO CTE ROBOTICS TY UPGRADE OF EXISTING RESTROOMS, LOW TS, & FLOOR & WALL FINISHES. NIT PER MECHANICAL DRAWINGS 200 201 202 203 204 204 205 205 206 206 206 2144 SF 5' 2 STORIES 5' 1 STORY 2LASROOM: 12,144 / 20 = 608 204 SAR, CA 91789 CONTACT: DENNIS J. LEE, R. CONTACT: LESLIE TSO, S. PH. (909) 598-018 CONTACT: LESLIE TSO, S. PH. (510) 788-602 CONTACT: JIA PAN, P. PH. (510) 788-602 CONTACT: JIA MAY, FONG, P.	GENERAL DRAWINGS T-1.1 TITLE SHEET ARCHITECTURAL DRAWINGS A-1.1 SITE PLAN A-2.2 DEMO & PROPOSED FLOOR F A-2.3 POWER/ DATA & FINISH FLOC A-2.4 ROOF PLAN & SECTIONS A-4.1 INTERIOR ELEVATIONS A-4.1 INTERIOR ELEVATIONS A-4.2 RESTROOM INTERIOR ELEVATIONS A-5.1 ARCHITECTURAL DETAILS A-5.1 SCHEDULES STRUCTURAL DRAWINGS S-1.1 GENERAL NOTES, TYP. DETAIL S-2.1 PARTIAL ROOF FRAMING PLAN M-0.1 MECHANICAL GENERAL NOTI M-0.2 MECHANICAL PRESCRIPTIVE TO M-0.3 MECHANICAL PRESCRIPTIVE TO M-0.4 MECHANICAL PRESCRIPTIVE TO M-0.5 MECHANICAL PRESCRIPTIVE TO M-0.6 MECHANICAL PRESCRIPTIVE TO M-0.7 PARTIAL GROUND FL. MCHAN M-0.8 PLUMBING GENERAL NOTES M-0.9 PARTIAL GROUND FL. MCHAN M-0.9 PARTIAL GROUND FL. MCHAN M-0.9 PARTIAL GROUND FL. MCHAN M-1 PLUMBING GENERAL NOTES	IG. PLANS DR PLANS TIONS S, FLOOR PLAN & SECTIONS N, SECTIONS & DETAILS ES TITLE 24 COMPLIANCE TITLE 24 COMPLIANCE TITLE 24 COMPLIANCE NICAL REFLECTED CEILING PLAN - DEMO PLANS AND INFORMATION TIC WATER AND GAS PIPING PLANS AND VENT PIPING PLANS AN AL NOTES, AND DETAIL S
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CT SHADOW OAK DR SHADOW OAK DR SHADOW OAK DR SHADOW OAK DR SHADOW OAK DR SHADOW OAK DR SHADOW OAK DR	LA PUENTE PD	(INCLUDING BUT NOT LIMITED OTHER LICENSED DESIGN PR THESE DRAWINGS AND/OR SPECIFICATION BELOW HAVE BEEN PREPARED BY OTHER D LICENSED AND/OR AUTHORIZED TO PREP DOCUMENTS HAVE BEEN EXAMINED BY M APPROPRIATE REQUIREMENTS OF TITLE 24 PROJECT SPECIFICATIONS PREPARED BY M	S/ENGINEERS WHO UTILIZE PLA D TO SHOP DRAWINGS) PREPAR ROFESSIONALS AND/OR CONSU NS AND/OR CALCULATIONS FOR THE ITEMS DESIGN PROFESSIONALS OR CONSULTANTS ARE SUCH DRAWINGS IN THIS STATE THESE THE FOR DESIGN INTENT AND APPEAR TO ME 4, CALIFORNIA CODE OF REGULATIONS AND TE.
	RTHAN ST SITE	AND ARE ACCEPTABLE FOR INCORPORATI WHICH I AM THE INDIVIDUAL DESIGNATE WHICH I HAVE BEEN DELEGATED RESPONS LIST OF DRAWINGS:	ON INTO THE CONSTRUCTION OF THIS PRO. D TO BE IN GENERAL RESPONSIBLE CHARGE SIBILITY FOR THIS PORTION OF THE WORK.) NG AND ELECTRICAL DRAWINGS LISTED ON <u>9/28/2021</u>







SITE PLAN KEYNOTES:

01 (E) CONCRETE WALKWAY

- (E) AC PAVING 02
- PROPERTY LINE 03
- (E) ACCESSIBLE PARKING 04
- (E) ACCESSIBLE PARKING SIGN POST 05
- (E) CURB RAMP, 1:12 SLOPE MAX 06
- (E) CONTINUOUS DETECTABLE WARNING 36" WIDE 07
- 08 (E) STRIPING 09 (E) FENCE / GATES PER A#03-114768

LEGEND:

Μ	ACCESSIBLE MEN'S RESTROOM

- W ACCESSIBLE WOMEN'S RESTROOM
- B ACCESSIBLE BOYS' RESTROOM
- ACCESSIBLE GIRLS' RESTROOM G
- DF ACCESSIBLE DRINKING FOUNTAIN

BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAX SLOPE OR

VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX, AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE FIRM, AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:

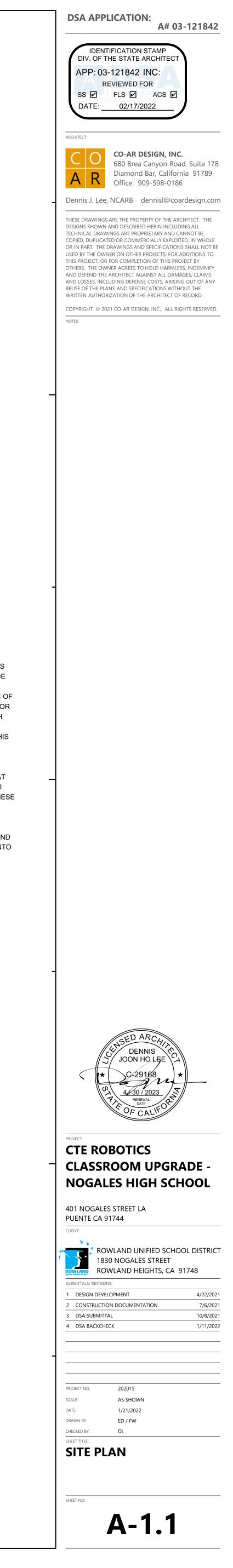
THE PATH OF TRAVEL IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS.

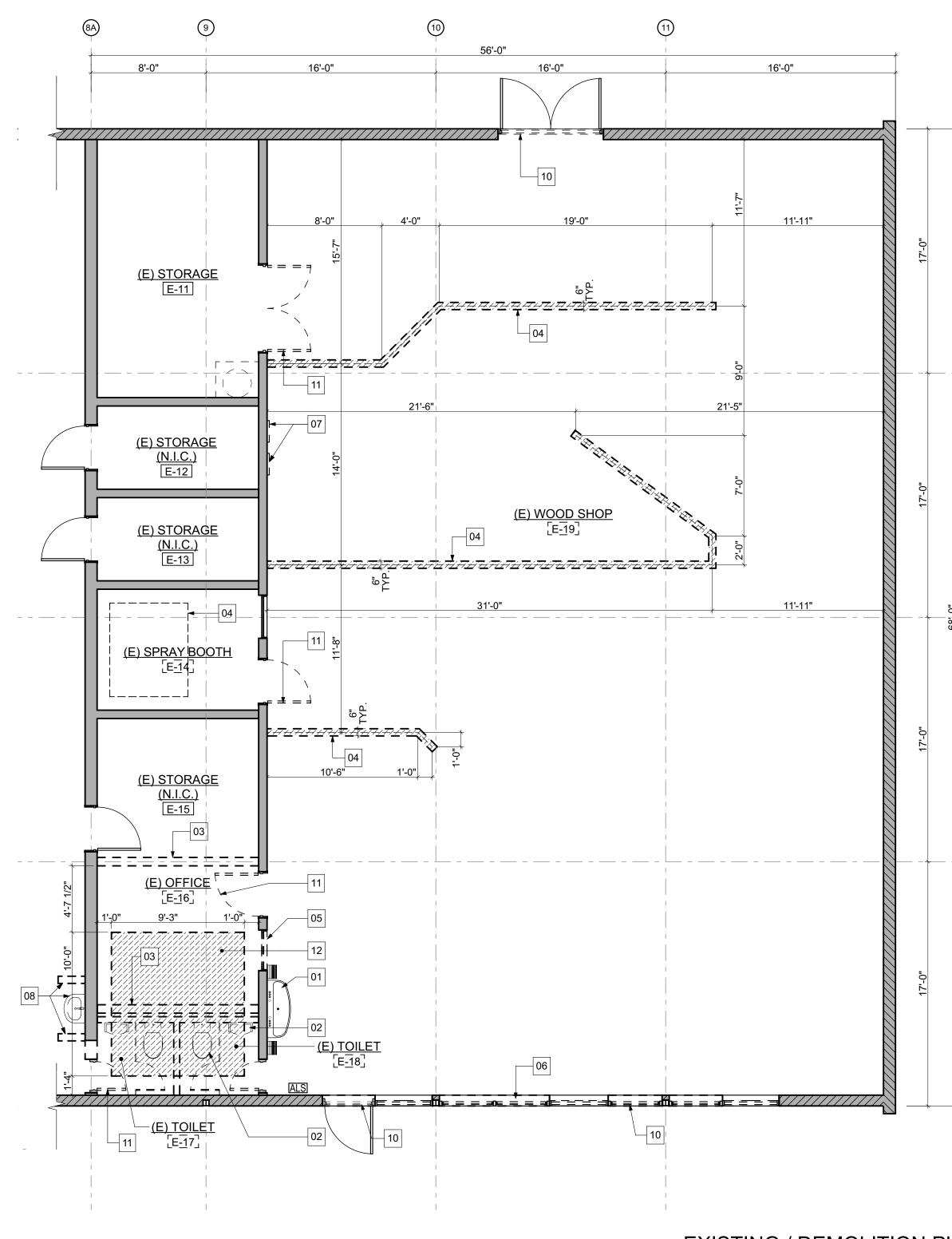
ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

DSA CERTIFICATION:

BLDG "E" APPLICATION	STATUS	DATE
A# 54204	#1 Close Letter Type	10/8/1992
A# 03-106825	#1-Certification & Close of File	4/10/2008
A# 03-114768	#1-Certification & Close of File	5/16/2018
A# 03-112147	#2-Certification & Close of File	5/18/2018
		0, 10, 2010
FIRE ALARM		
APPLICATION	STATUS	DATE
A# 03-114768	#1-Certification & Close of File	5/16/2018
PATH OF TRAVEL		
APPLICATION	STATUS	DATE
A# 03-106825	#1-Certification & Close of File	4/10/2008
A# 03-114768	#1-Certification & Close of File	5/16/2018
RESTROOMS		
APPLICATION	STATUS	DATE
A# 03-106825	#1-Certification & Close of File	4/10/2008
PARKING LOT		
APPLICATION	STATUS	DATE
A# 03-114768	#1-Certification & Close of File	5/16/2018
	OOMS (ADJACENT TO BLDG E)	
	•	DATE
APPLICATION	STATUS	
A# 03-114396	#2-Certification & Close of File	3/28/2013 8/22/2002
A# 03-105063	#2-Certification & Close of File	4/16/2009
A# 03-104259	#2-Certification & Close of File	7/10/2003







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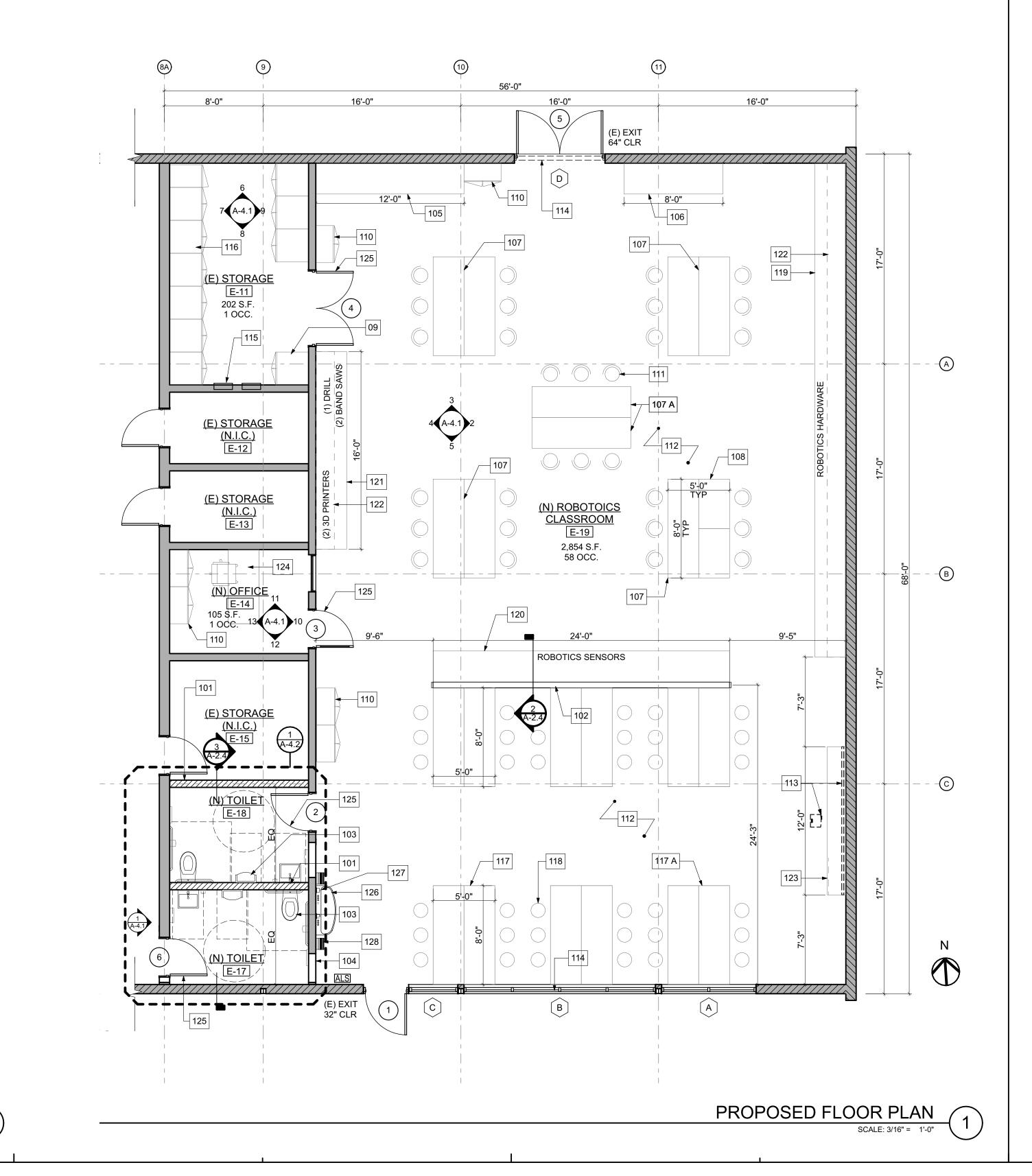
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GENERAL NOTES:

- 1. THE DEMOLITION PLAN IS INTENDED TO SHOW A GENERAL SCOPE OF DEMOLITION WORK. CONTRACTOR SHALL INCLUDE ALL OTHER DEMOLITION NOT SPECIFICALLY INDICATED ON THIS PLAN BUT REQUIRED TO ACCOMPLISH
- NEW WORK. 2. SEE PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. 3. CONTRACTORS SHALL VERIFY IN FIELD ALL EXISTING DIMENSIONS AND
- CONDITION. 4. VERIFY WITH DISTRICT ALL ITEMS THAT ARE TO BE SALVAGED AND RETURNED TO DISTRICT PRIOR TO DEMOLITION.
- 5. REMOVE A PORTION OF (E) SLAB ON GRADE OR WALL SURFACES AS REQUIRED FOR ALL NEW PLUMBING WORK.
- 6. CONTRACTOR SHALL PATCHAND REPAIR ALL FLOOR OR CEILING FSURFACES
- TO MATCH ADJACENT IN EACH ROOM AFFECTED BY NEW WORK. 7. (E) DOORS TO RECEIVE NEW HARDWARE SHALL BE FULLY PATCHED AND PAINTED.

FLOOR PLAN KEYNOTES:

- 01 REMOVE (E) SINK, SEE PLUMBING DRAWINGS FOR MORE INFO.
- 02 REMOVE (E) TOILET & URINAL, TYP. SEE PLUMBING DRAWINGS FOR MORE INFO. 03 REMOVE (E) WALL, TYP.
- TRENCH FOR UNDERGROUND CONDUIT, TYP. SEE E-2.3 FOR MORE INFORMATION. 04 CONTRACTOR TO VERIFY LOCATION IN FIELD, SEE 14/S-1.1 FOR BACKFILL & SLAB PATCH DETAIL.
- 05 REMOVE (E) WINDOW
- 06 REMOVE PLYWOOD FROM (E) WINDOWS
- 07 RELOCATE (E) ELECTRICAL PANELS, SEE ELECTRICAL DWGS.
- 08 REMOVE (E) HAND SINK, PAPER TOWEL DISPENSER, SOAP DISPENSER & LOW WING WALLS. REMOVE VINYL TACKBOARDS AT AFFECTED AREAS, REPLACE WITH MATCHING TACKBOARDS, VCT & BASE. SEE PLUMBING DRAWINGS FOR MORE
- INFO.
- 09 REMOVE (E) WATER HEATER, SEE PLUMBING DRAWINGS FOR MORE INFO.
- 10 REMOVE (E) WINDOWS & LOUVER, TYP. 11 REMOVE (E) DOOR & FRAME.
- REMOVE (E) SLAB AS SHOWN FOR PLUMBING WORK, SEE P-1.1 FOR MORE 12 INFORMATION. CONTRACTOR TO VERIFY LOCATION IN FIELD, SEE 14/S-1.1 FOR BACKFILL & SLAB PATCH DETAIL.
- 101 PROVIDE (N) FULL HEIGHT WALL, SEE 3/A-2.4 & STRUCTURAL DWGS FOR MORE INFO.
- 102 PROVIDE (N) 3'-10" HIGH WALL, SEE 2/A-2.4 & STRUCTURAL DWGS FOR MORE INFO.
- 103 PROVIDE (N) PLUMBING FIXTURE & ACCESSORIES, SEE INTERIOR ELEVATIONS.
- 104 INFILL WALL AFTER DOOR DEMOLITION, SEE 1/A-5.2. MATCH ADJ. FINISH.
- 105 (E) SNAP -ON WORK BENCH, 12' x 2'-6" x 43" H, RELOCATE FROM CLASSROOM D-2
- 106 (E) SNAP-ON WORK BENCH, 8' x 2'-6" x 40" H, RELOCATE FROM CLASSROOM D-2
- 107 (E) SNAP-ON TABLES, 8' x 2'-6" x 40" H, RELOCATE FROM CLASSROOM D-2 (TYP. OF 6)
- 107A (E) SNAP-ON TABLES, 8' x 2'-6". ADJUST HEIGHT TO BE 34" H. MAX., x 34" H, RELOCATE FROM CLASSROOM D-2 (TYP. OF 2)
- 108 (E) SNAP-ON TABLES, 4' x 2'-6" x 40" H, RELOCATE FROM CLASSROOM D-2 (TYP. OF 2)

109 NOT USED.

- 110 (E) METAL CABINET, 3' x 1'-6" x 6' H, RELOCATE FROM CLASSROOM D-2 (TYP. OF 6). SEE 2/A-5.2 FOR ANCHORAGE DETAIL
- 111 (E) STOOLS, RELOCATE FROM CLASSROOM D-2 (TYP. OF 30)
- 112 PROVIDE NEW WAXLESS HVT FLOORING BY CATALINA PRODUCTS
- INTERNATIONAL, TYP. 113 NEW PROJECTOR (SEE 3/A-5.2) & SCREEN (SEE 4/A-5.2)
- 114 NEW ALUMINUM STOREFRONT WINDOWS WITH DUAL PANE INSULATED GLAZING, TYP. SEE WINDOW SCHEDULE ON A-6.1 & INTERIOR ELEVATIONS ON A-4.1 FOR
- MORE INFORMATION. 115 NEW ELECTRICAL PANELS, SEE ELECTRICAL DWGS FOR MORE INFO. SEE 2/E-1.2 FOR PANEL MOUNTING DETAIL.
- 116 NEW WALL CABINETS, TYP. SEE INTERIOR ELEVATIONS & 15/A-5.1.
- 117 NEW SCIENCE TABLES 8' x 2'-6", FROM SCHOOLSIN.COM (TYP. OF 10)
- 117 A NEW SCIENCE TABLES 8' x 2'-6", 34" H. MAX. FROM SCHOOLSIN.COM (TYP. OF 2)
- 118 NEW STOOLS FROM SCHOOLSIN.COM (TYP. OF 36)
- 119 NEW WORKBENCH SYSTEM W/ WOOD TOP, 40' x 2'-6" x 34" H
- 120 NEW WORKBENCH SYSTEM W/ WOOD TOP, 24' x 2'-6" x 34" H
- 121 NEW WORKBENCH SYSTEM W/ WOOD TOP, 16' x 2'-6" x 34" H
- 122 NEW WALL MOUNTED STEEL SHELVES, 18" DEEP, 16 GA. MIN., BLACK POWDER COATED. SEE INTERIOR ELEVATIONS & 8/A-5.2.
- 123 NEW BASE CABINET, SEE INTERIOR ELEVATION
- 124 NEW OFFICE TABLE & CHAIR
- 125 NEW DOOR, FRAME & HARDWARE PER SCHEDULE, TYP. OF (4).
- 126 PROVIDE NEW ACORN ELPS2 WASH BASIN, 34"H MAX, SEE PLUMBING DWGS FOR
- MORE INFO. PROVIDE BACKING PER 17/A-5.1.
- 127 PROVIDE (N) SOAP DISPENSER, SEE INTERIOR ELEVATIONS ON A-4.1 & 12/A-5.1.
- 128 PROVIDE (N) PAPER TOWEL DISPENSER, SEE INTERIOR ELEVATIONS ON A-4.1 & 12/A-5.1.

LEGEND:

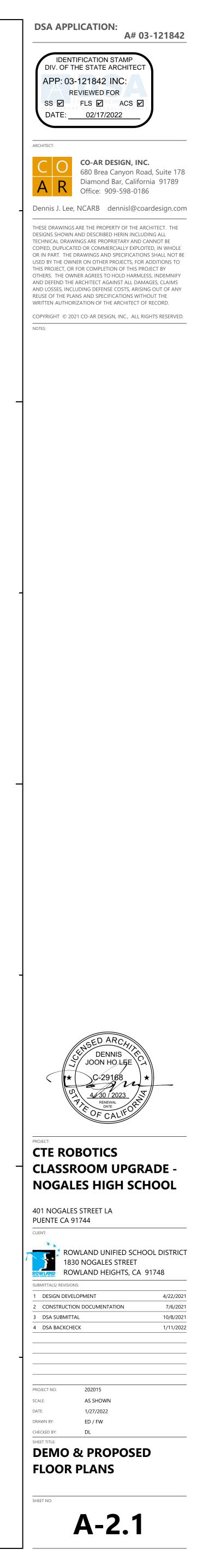
EXISTING BRICK WALL TO REMAIN, TYP.

EXISTING 2X STUD WALL TO REMAIN, TYP.

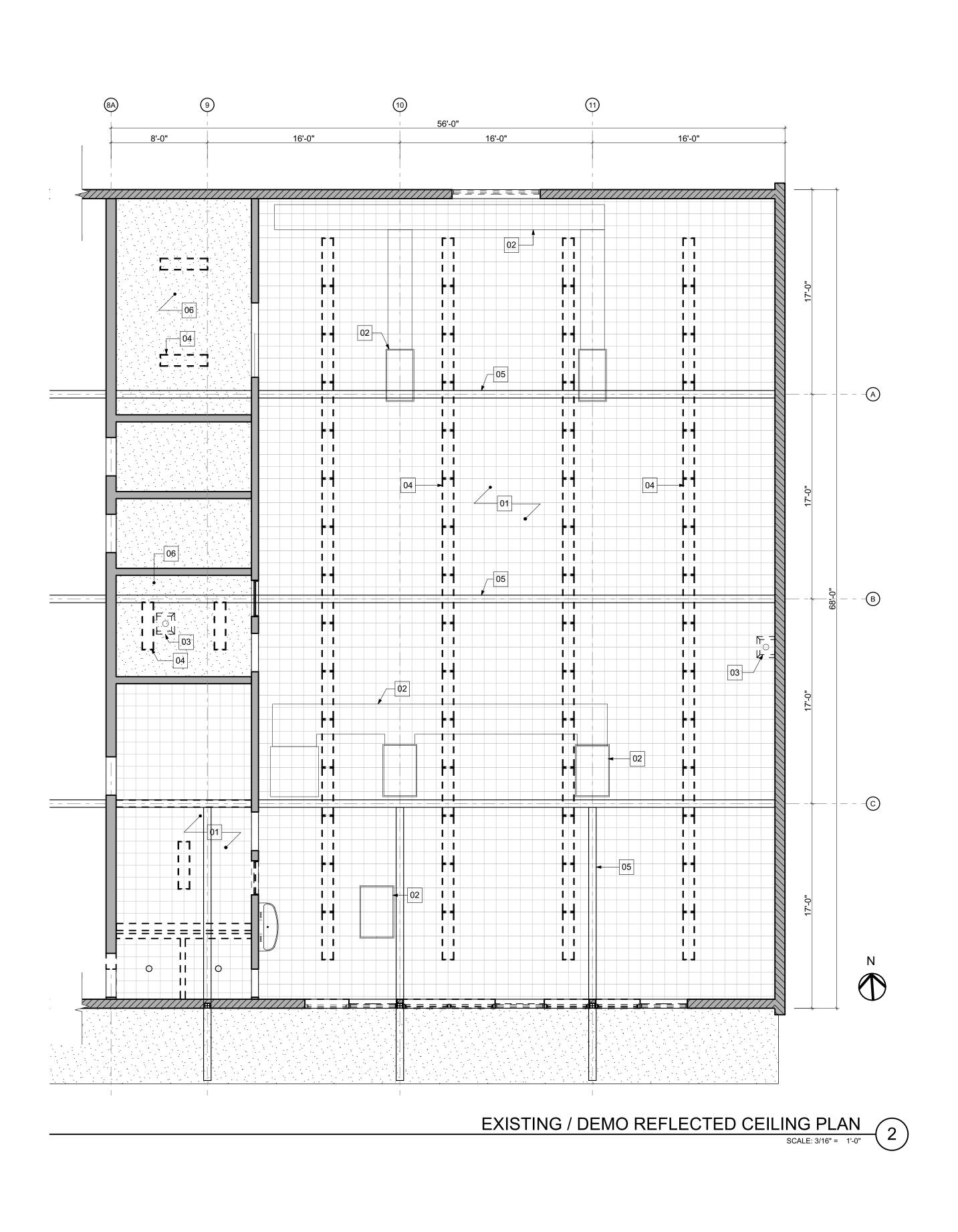
- $\Box \equiv \equiv \equiv \equiv \exists$ DEMO (E) 2X STUD WALL
- NEW 2X STUD WALL, FULL HEIGHT

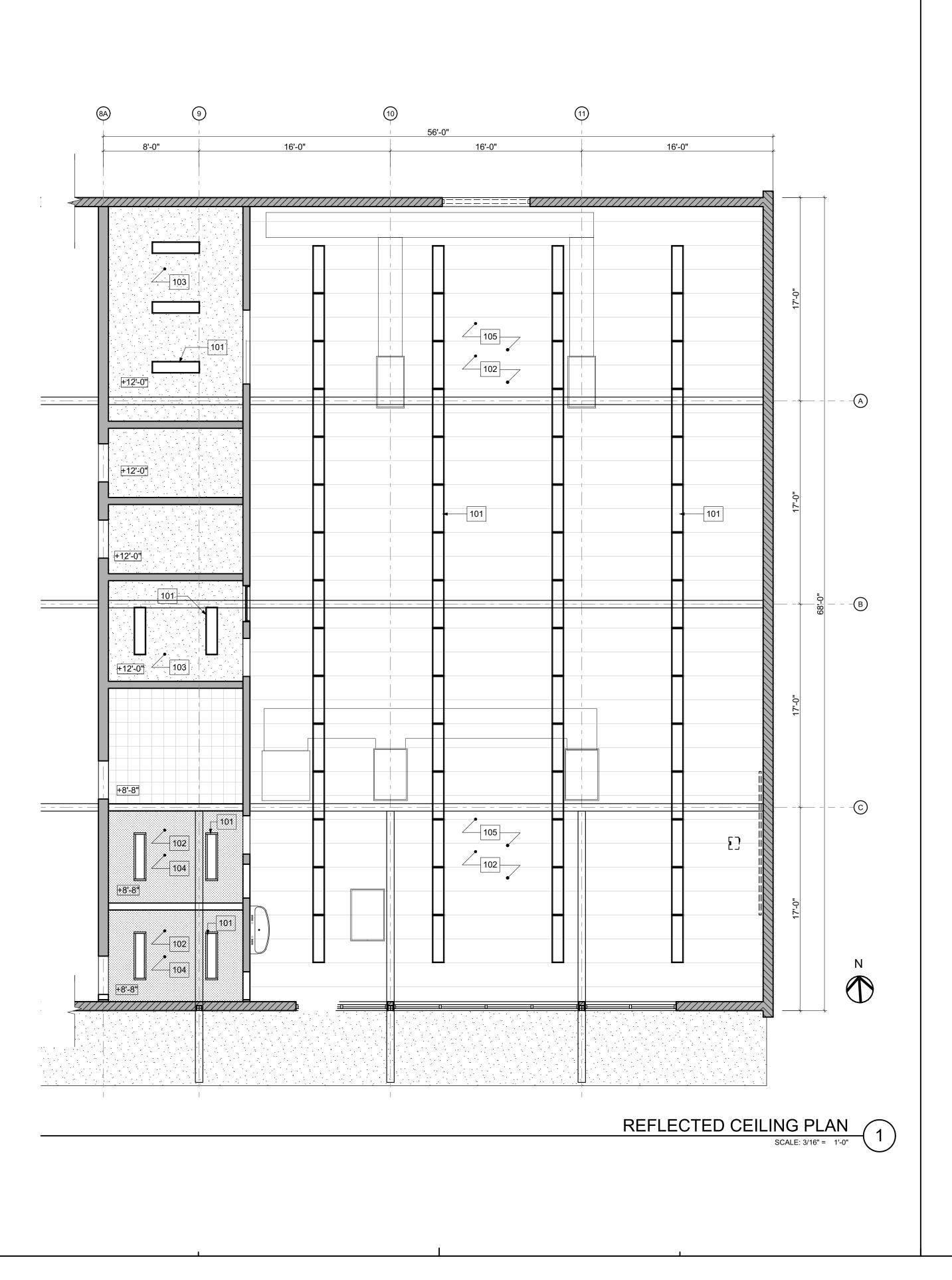
NEW 2X STUD WALL, PARTIAL HEIGHT

PROVIDE ASSISTIVE LISTENING SYSTEM SIGN, SEE 20/A-5.1 ALS DISTRICT TO PROVIDE MIN. OF 1 TRANSMITTER & 3 RECEIVERS PER SPECIFICATIONS. MIN. OF 2 RECEIVERS SHALL BE HEARING-AID COMPATIBLE PER CBC 11B-706.3. (4% x 58 = 3 MIN.)



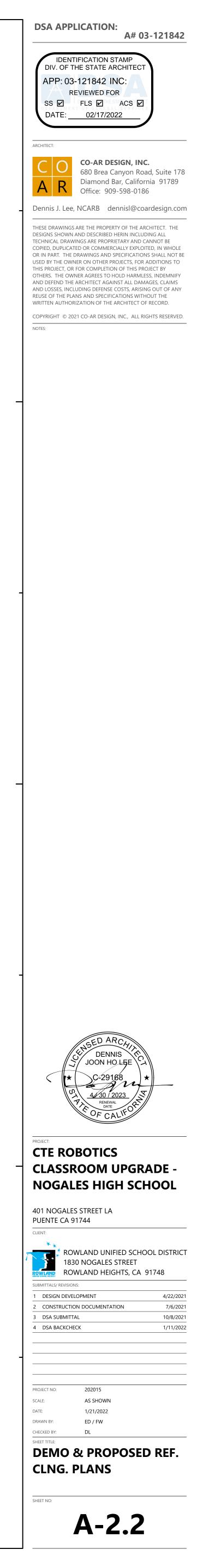




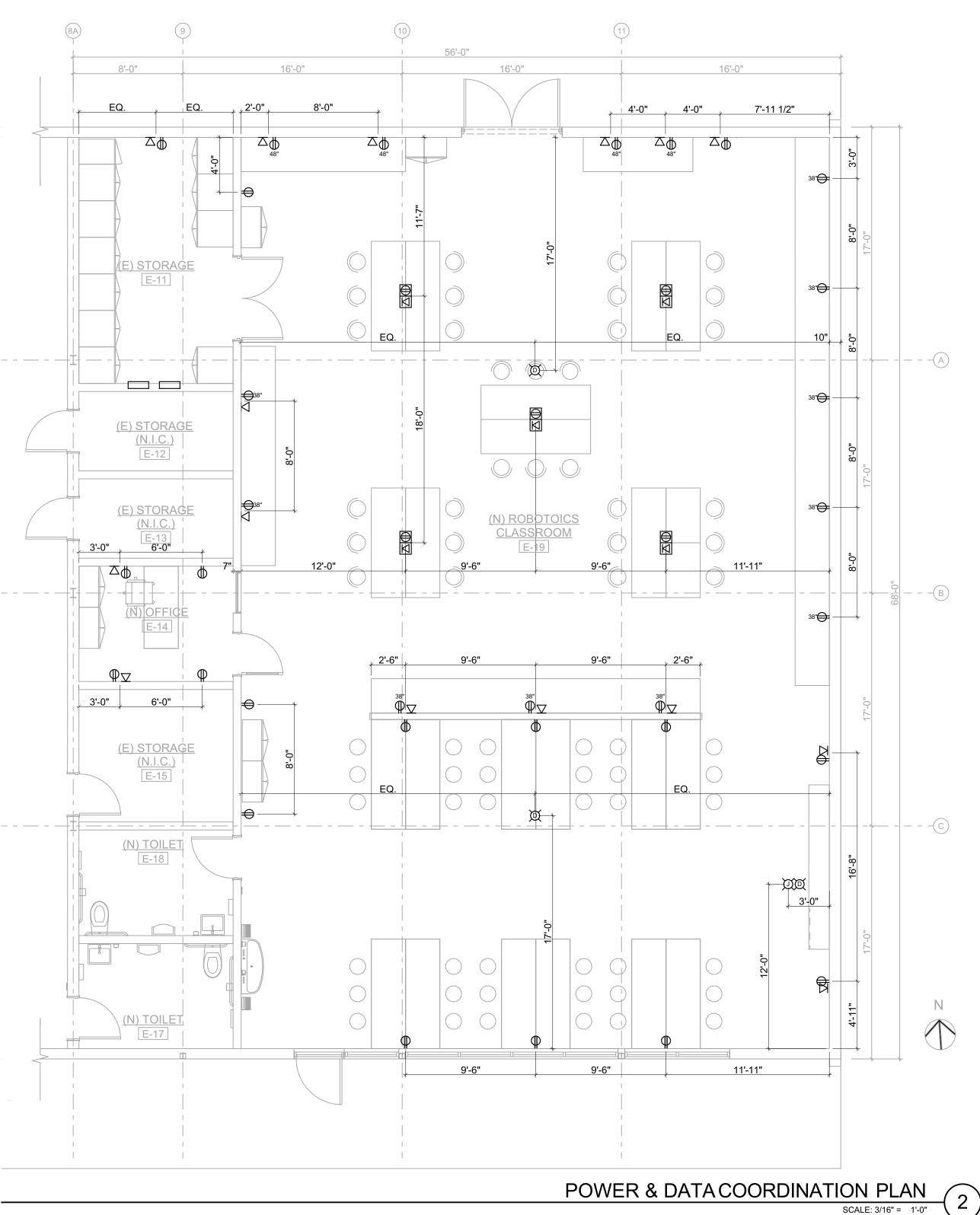


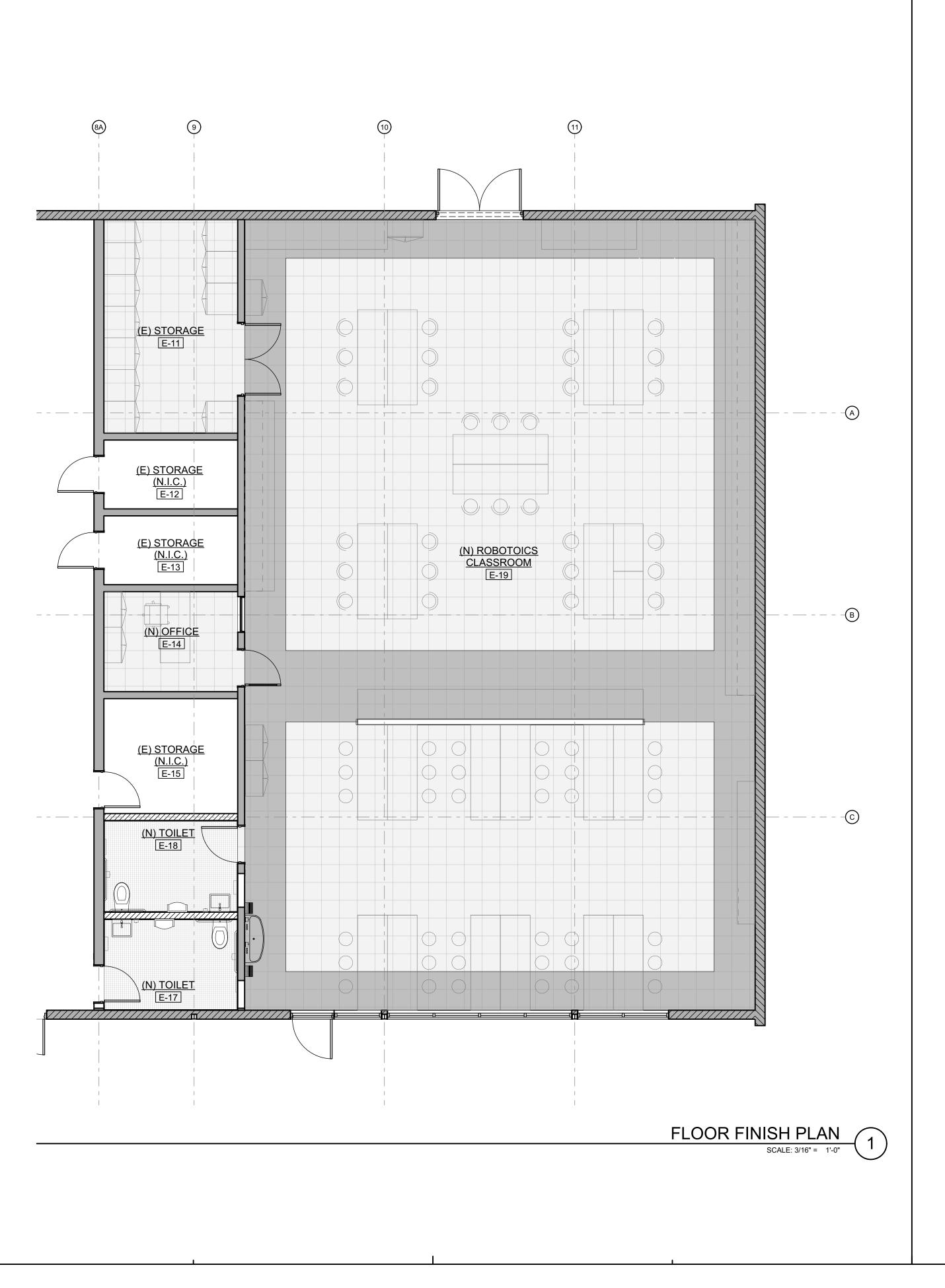
CEILING PLAN KEYNOTES:

- 01 REMOVE (E) ACOUSTICAL CEILING TILES & INSULATION, TYP.
- 02 (E) AC & DUCTWORK TO REMAIN, TYP.
- 03 REMOVE (E) HOOD & CAP EXHAUST DUCT.
- 04 REMOVE (E) FLUORESCENT LIGHT FIXTURES, TYP.
- 05 (E) EXPOSED BEAMS TO REMAIN, TYP.
- 06 (E) PLASTER CEILING TO REMAIN, PATCHALL ABANDONED OPENINGS, SEE 13/A-5.2.
- 101 PROVIDE (N) L.E.D. LIGHT FIXTURES THROUGHOUT, TYP. LIGHT FIXTURE WEIGHT 22 LBS, SEE ELECTRICAL DRAWINGS (3/E-1.2 FOR MOUNTING) FOR MORE INFORMATION.
- 102 PROVIDE (N) R30 INSULATION W/ FACING, THROUGHOUT ENTIRE SCOPE OF WORK AREA.
- 103 EXISTING PLASTER CEILING TO REMAIN, PAINTED.
- 104 PROVIDE (N) GYP. BD. CEILING (TYP.), PAINTED.
- 105 EXPOSED INSULATION W/ FACING (WHITE), PAINT ALL STRUCTURE AND MECHANICAL DUCTWORK WHITE.









(FOR LOCATION INFORMATION ONLY, SEE ELECTRICAL DRAWINGS FOR COMPLETE SCOPE)

POWER & DATA LEGEND :

\Box	FLOOR OUTLET FOR POWER & DATA, SEE ELEC. DWGS FOR MORE INFO. SEE 14/S-1.1 FOR SLAB PATCH DETAIL.
^{38"}	WALL OUTLET FOR POWER & DATA, 15" A.F.F. U.N.O. SEE ELEC. DWGS FOR MORE INFO.
^{38"}	WALL OUTLET, 15" A.F.F. U.N.O. SEE ELEC. DWGS FOR MORE INFO.
∇	WALL OUTLET FOR DATA, 15" A.F.F. U.N.O. SEE ELEC. DWGS FOR MORE INFO.
Ŭ	J-BOX FOR POWER OUTLET AT CEILING, SEE ELEC. DWGS FOR MORE INFO.
Ø	J-BOX FOR DATA - WIFI ACCESS POINT AT CEILING, SEE ELEC. DWGS FOR MORE INFO.

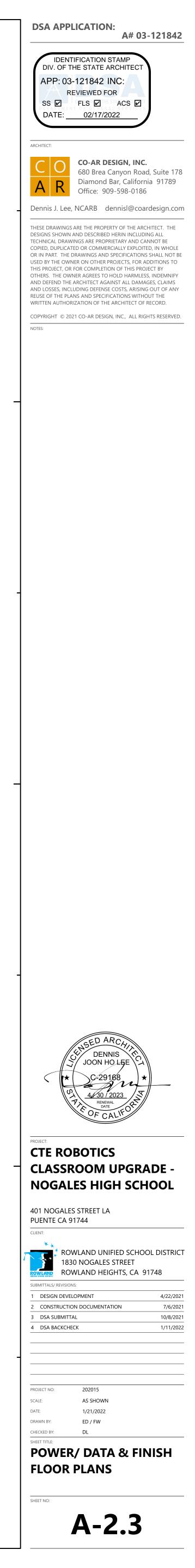
FINISH PLAN LEGEND:

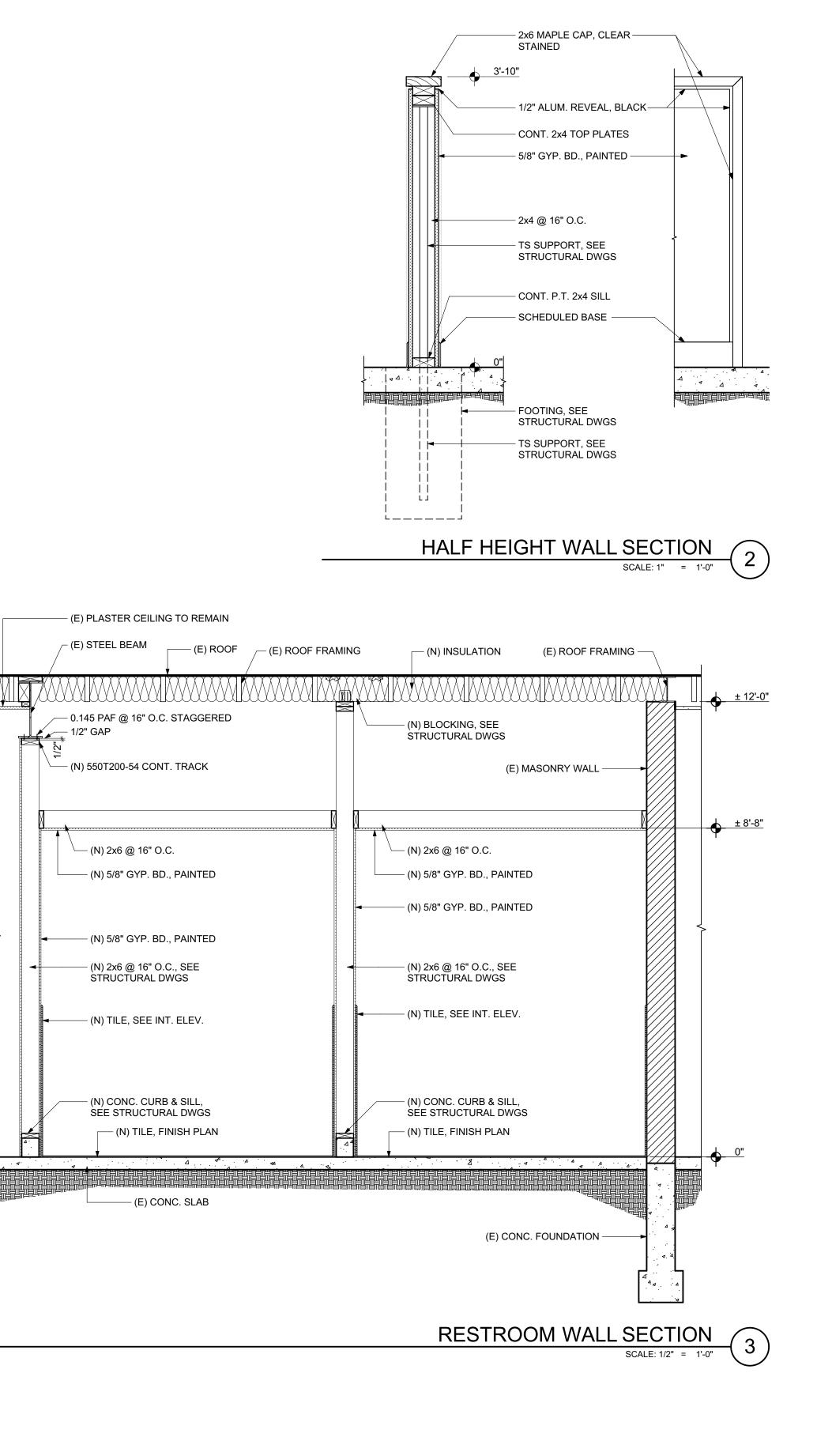


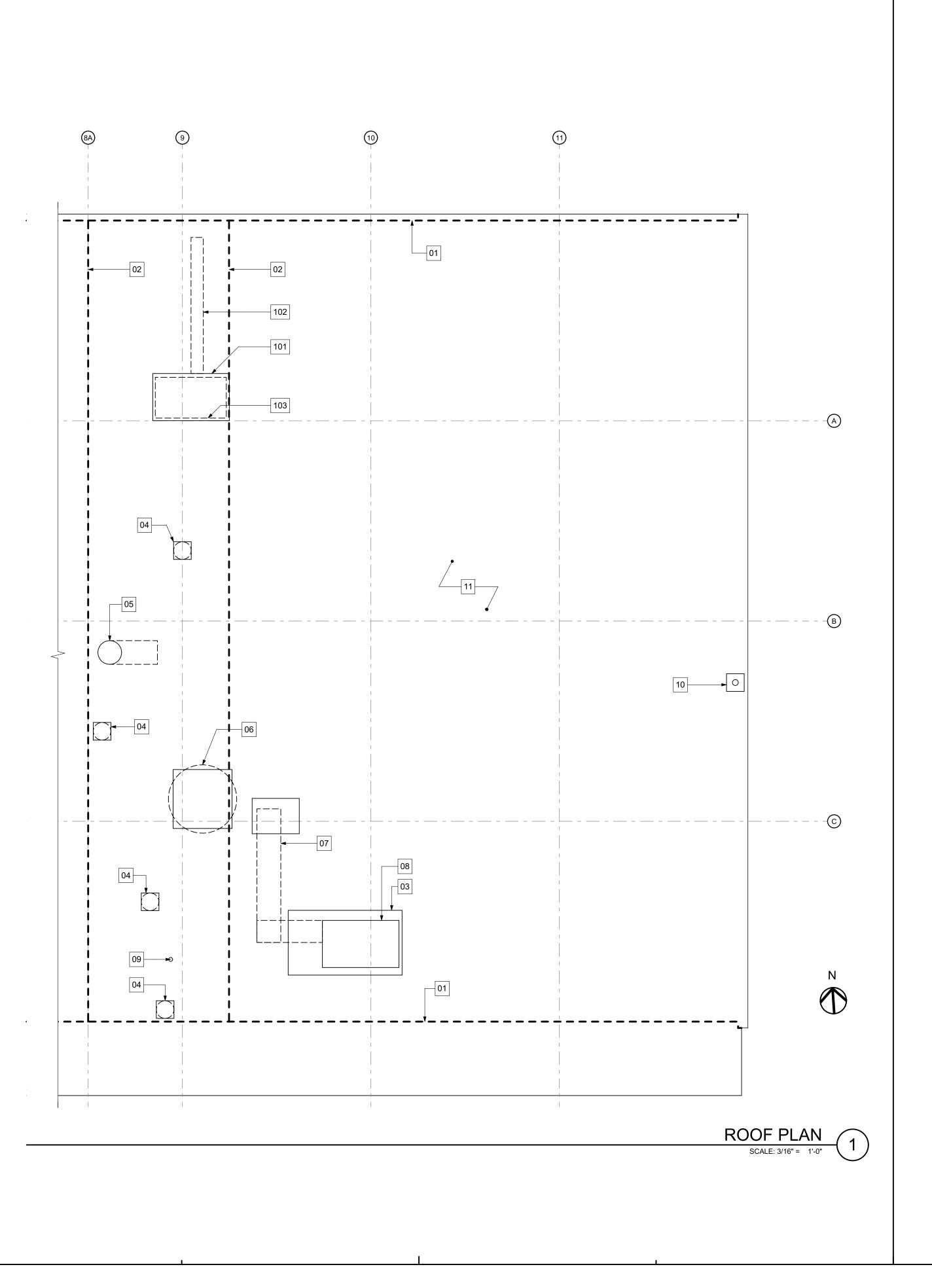
CATALINA PRODUCTS INTERNATIONAL, INSTALL PER MANUFACTURER'S INSTRUCTIONS 5mm 18" x 18" HYBRID VINYL TILE, BORDER COLOR: ONYX CATALINA PRODUCTS INTERNATIONAL, INSTALL PER MANUFACTUER'S INSTRUCTIONS

5mm 18" x 18" HYBRID VINYL TILE, FIELD COLOR: ALMOND

DALTILE, HAUTE MONDE, COLOR: GLITTERATI GRANITE HM03, UNPOLISHED, 2"X2" MOSAIC.





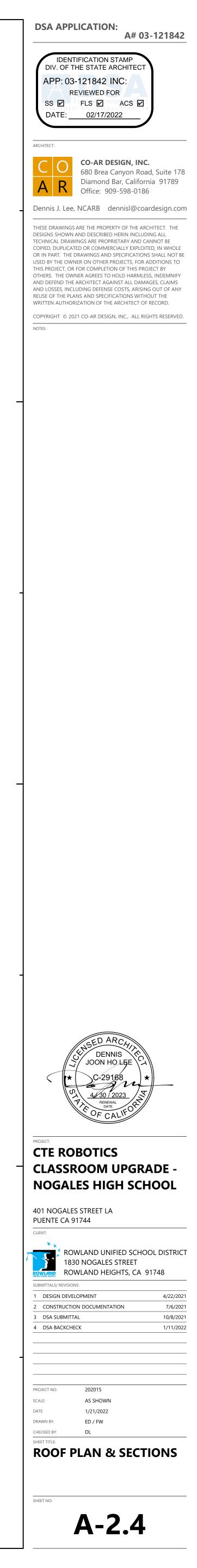


ROOF PLAN KEYNOTES:

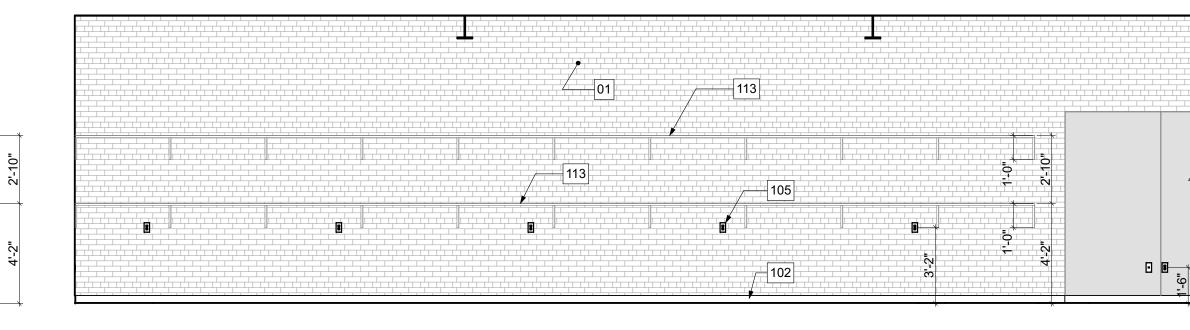
- 01 LINE OF EXTERIOR WALL BELOW
- 02 LINE OF INTERIOR WALL BELOW
- 03 NOT USED.
- 04 (E) AIR VENT, SEE MECHANICAL DRAWINGS FOR MORE INFORMATION
- 05 (E) EXISTING EXHAUST FAN BELOW & OUTLET TO BE REMOVED, SEE MÉCHANICAL DRAWINGS FOR MORE INFORMATION
- 06 (E) OUTSIDE AIR INTAKE TO BE REMOVED, SEE MECHANICAL DRAWINGS FOR MORE INFORMATION
- 07 (E) HVAC DUCT
- 08 (E) HVAC UNIT TO REMAIN, SEE MECHANICAL DRAWINGS FOR MORE
- INFORMATION 09 (E) PLUMBING VENT
- 10 (E) AIR VENT TO BE REMOVED, SEE MECHANICAL DRAWINGS FOR MORE
- INFORMATION 11 (E) ROOF TO REMAIN, PATCH & REPAIR AS REQUIRED
- 101 (N) HVAC UNIT, SEE M-2.0 FOR MORE INFORMATION.

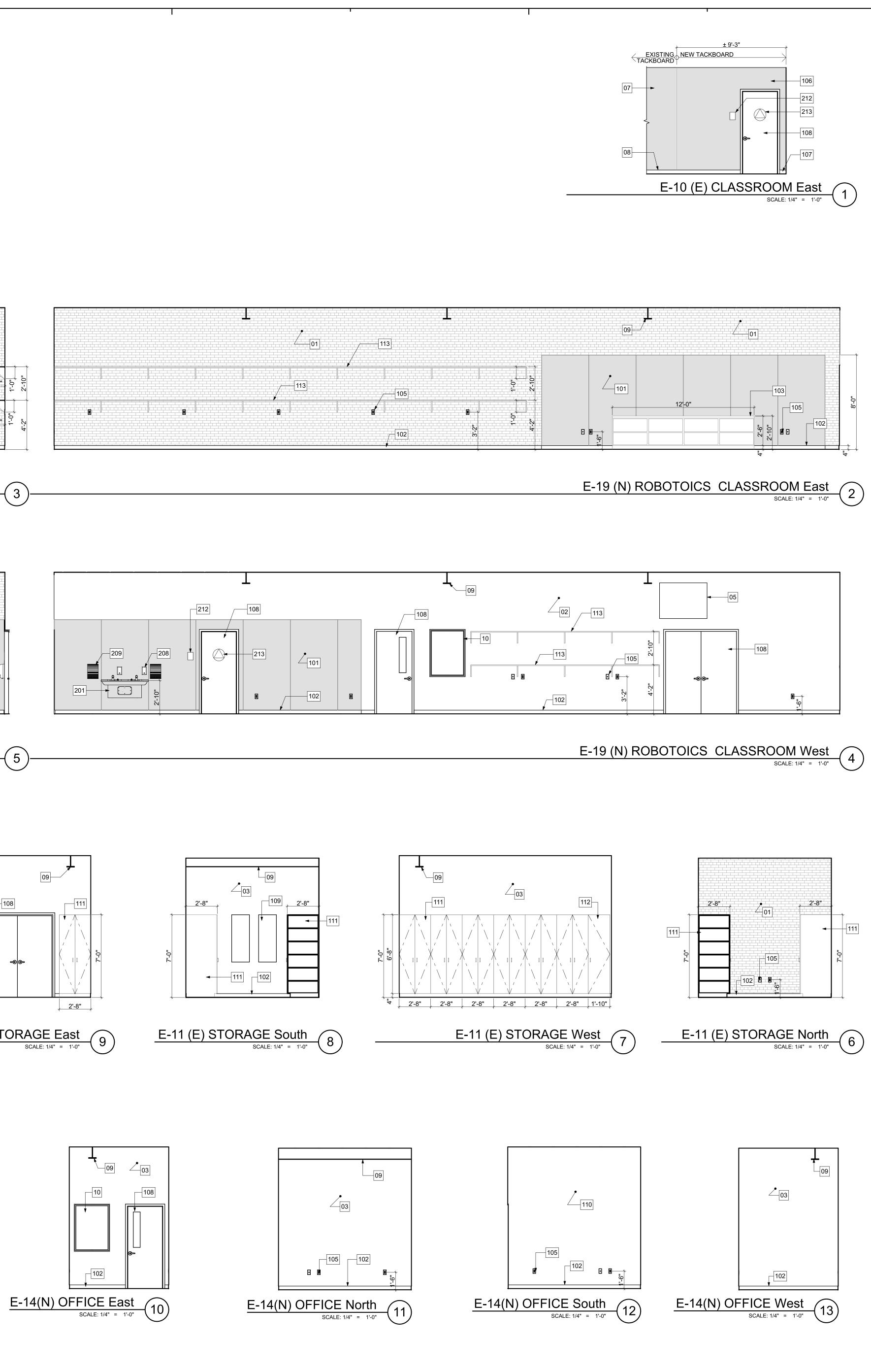
102 (N) DUCT, SEE M-2.0 FOR MORE INFORMATION.

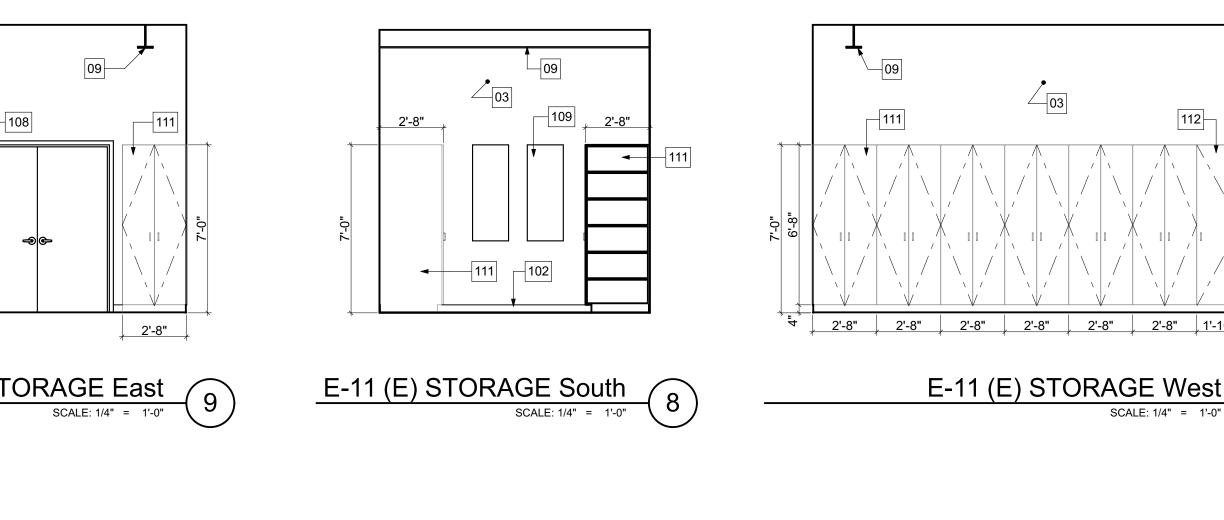
103 (N) EQUIPMENT CURB & REINFORCING, SEE 8/S-2.1 FOR MORE INFORMATION.

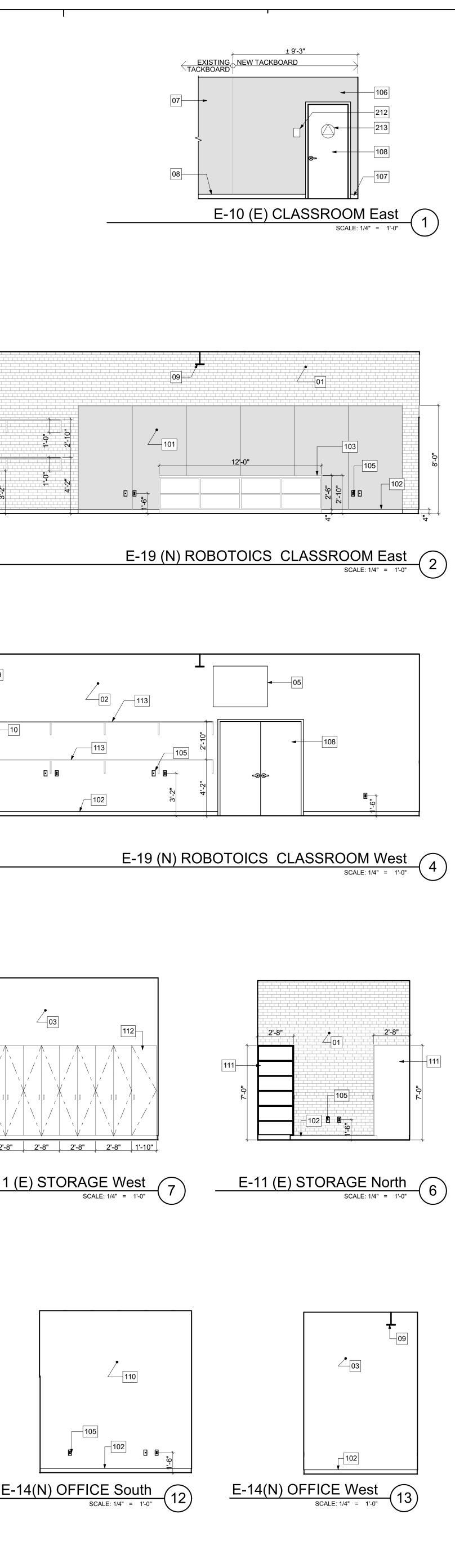


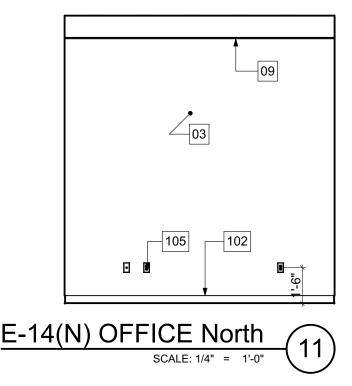
	E-19 (N) ROBOTOICS CLASSROOM North SCALE 14" = 110" 3
	E-19 (N) ROBOTOICS CLASSROOM South SCALE: 14" = 110"
15-KUSD-Nogales Hign-Kobotics Friday, January 21, 2022 5:37 PM	
JAK-CUNFERENCE - BIMCIOUD BASIC TOF AKCHICAD 25/20201	<u>E</u> -

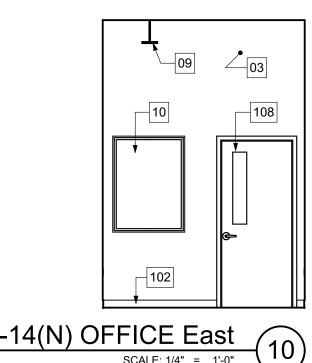










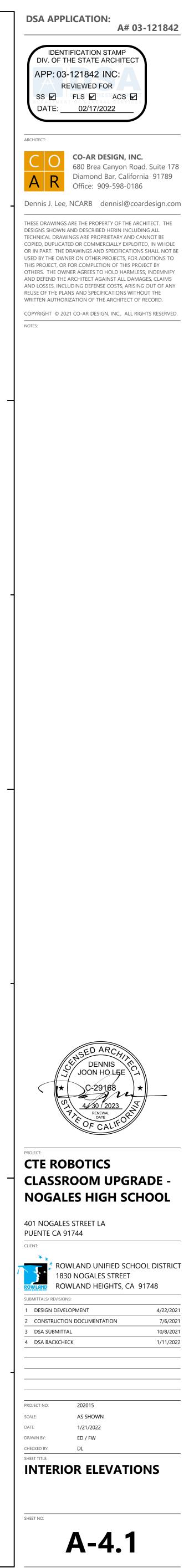


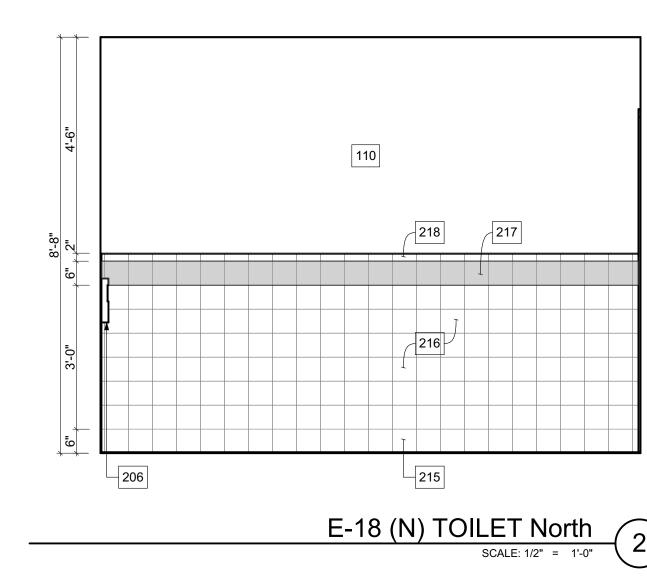
INT. ELEV. KEYNOTES:

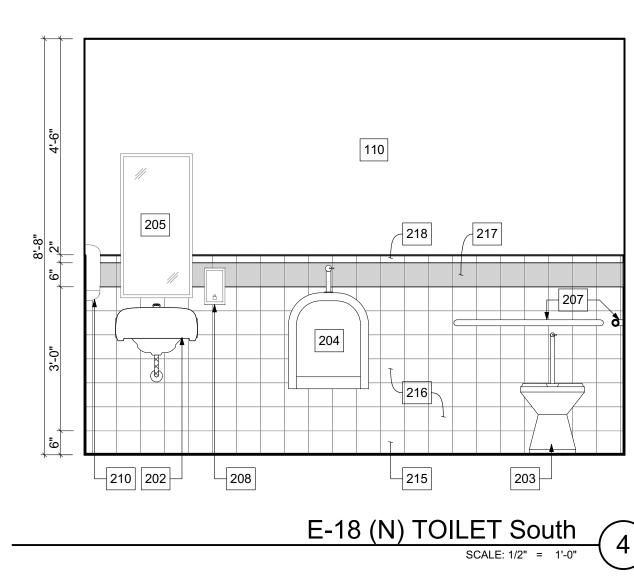
- 01 (E) BRICK WALL, PAINTED. COLOR TO BE SELECTED BY DISTRICT.
- 02 (E) PLYWOOD FINISH, PAINTED
- 03 (E) PLASTER / GYP. WALLBOARD, PAINTED
- 04 (E) DOOR, PAINTED
- 05 (E) GRILL, PAINTED. SEE MECH. DWGS FOR MORE INFO.
- 07 (E) VINYL TACKBOARD
- 08 (E) VINYL BASE
- 09 (E) STRUCTURE, TYP. PAINTED
- 10 (E) WINDOW

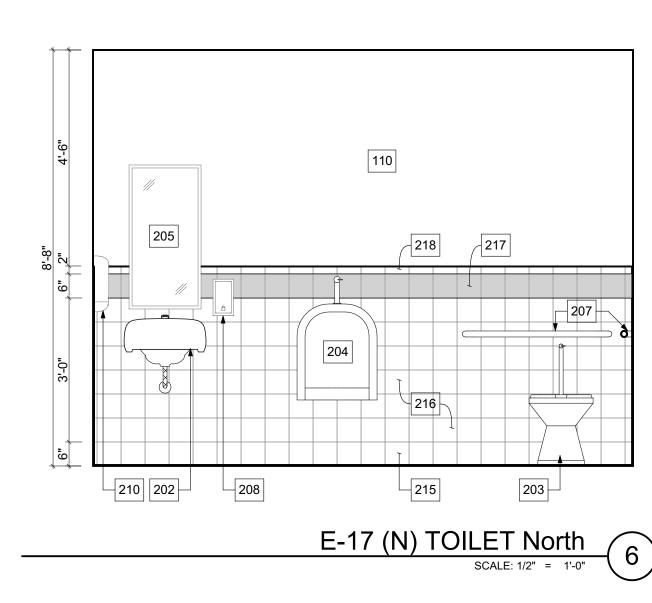
101 VINYL TACKBOARD, SEE 5 & 9/A-5.2 FOR MOUNTING DETAILS

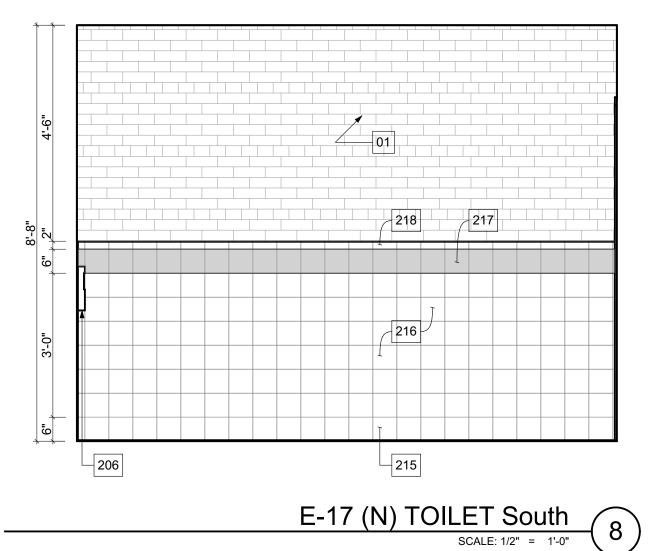
- 102 VINYL BASE, (TYP.)
- 103 CASEWORK, WOODWORK INSTITUTE CDS # 110 (TYP.) SEE 15/A-5.1 FOR ANCHORAGE DETAILS.
- 104 REMOVE (E) LOUVER/ WINDOW AND PROVIDE NEW STOREFRONT WINDOW PER PLANS, TYP.
- 105 ELECTRICAL OUTLETS, (WIREMOLD) TYP. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION
- 106 VINYL TACKBOARD, MATCH EXISTING ADJACENT SURFACE.
- 107 VINYL BASE, MATCH EXISTING ADJACENT SURFACE.
- 108. NEW DOOR, FRAME & HARDWARE PER SCHEDULE, TYP. OF (4).
- 109. RELOCATED ELEC. PANELS, SEE ELEC. DWGS FOR MORE INFO.
- 110. NEW 5/8" GYP. BD., PAINTED
- 111. CASEWORK, WOODWORK INSTITUTE CDS # 402 (TYP.) PROVIDE ANCHORAGE PER 15/A-5.1, TYP.
- 112. CASEWORK, WOODWORK INSTITUTE CDS # 401 (TYP.) PROVIDE ANCHORAGE PER 15/A-5.1, TYP.
- 113. NEW WALL MOUNTED STEEL SHELVES, 18" DEEP, 16 GA. MIN., BLACK POWDER COATED. SEE 8/A-5.2.
- 201. PROVIDE NEW ACORN ELPS2 WASH BASIN 34" H. MAX, SEE PLUMBING DWGS FOR MORE INFO. PROVIDE BLOCKING PER 17/A-5.1.
- 208. PROVIDE (N) SOAP DISPENSER, PER DISTRICT STANDARDS. SEE 12/A-5.1.
- 209. PROVIDE (N) PAPER TOWEL DISPENSER, PER DISTRICT STANDARDS. SEE 12/A-5.1.
- 212. PROVIDE (N) ACCESSIBLE RESTROOM WALL SIGN, SEE 9/A-5.1
- 213. PROVIDE (N) ACCESSIBLE RESTROOM DOOR SYMBOLS, SEE 10/A-5.1





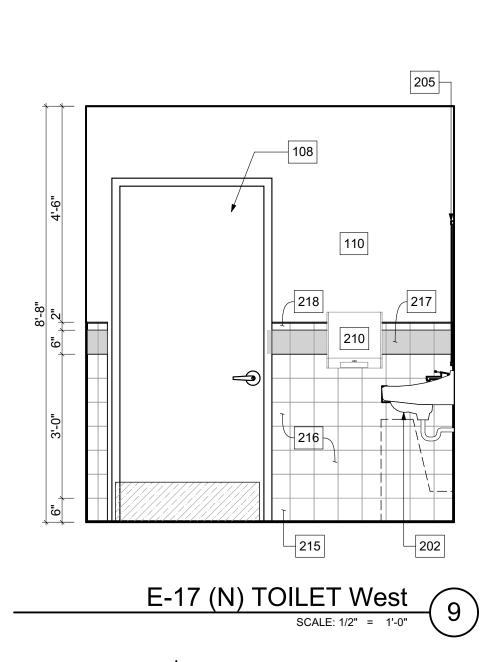


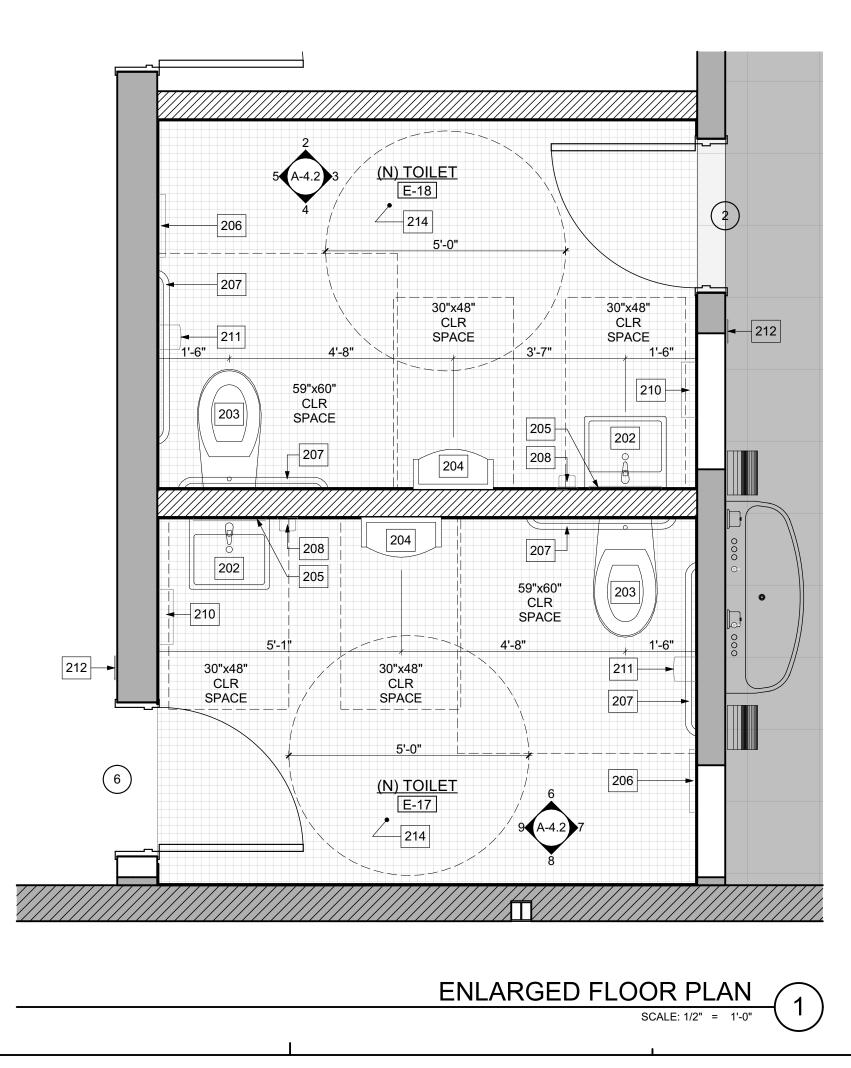


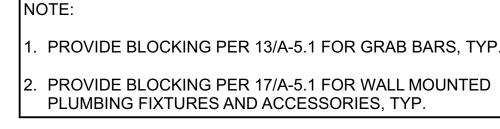


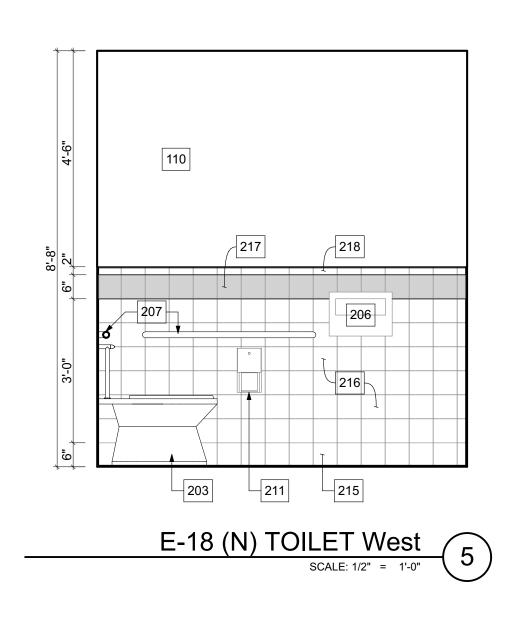












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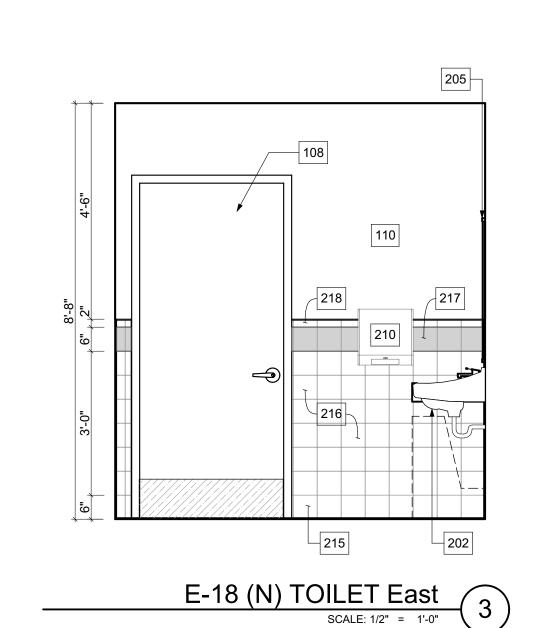
206

216

SCALE: 1/2" = 1'-0"

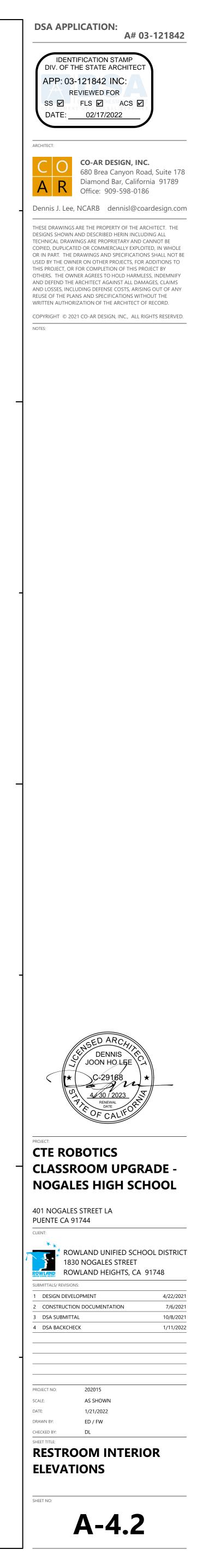
____211 ____215

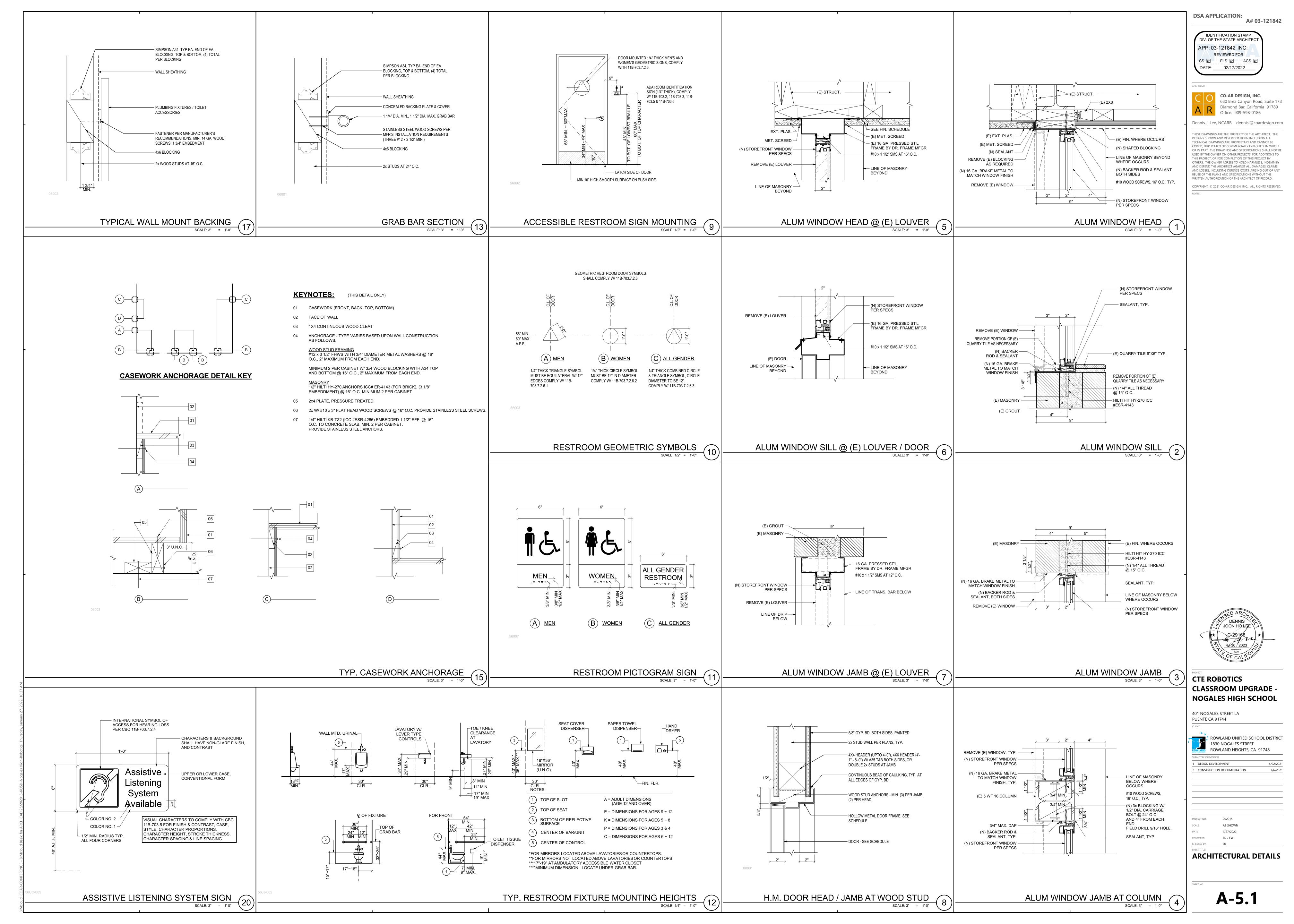
E-17 (N) TOILET East

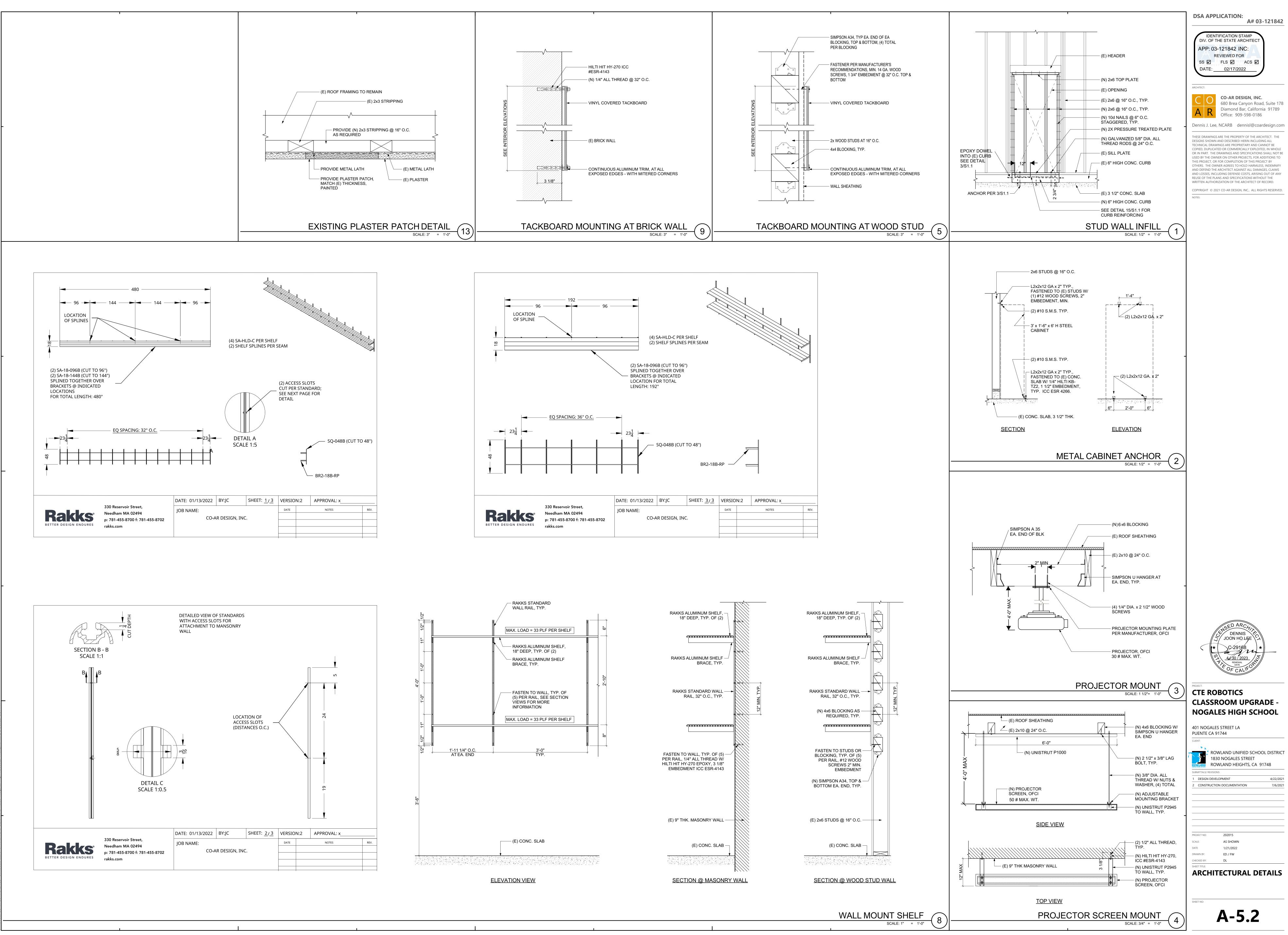


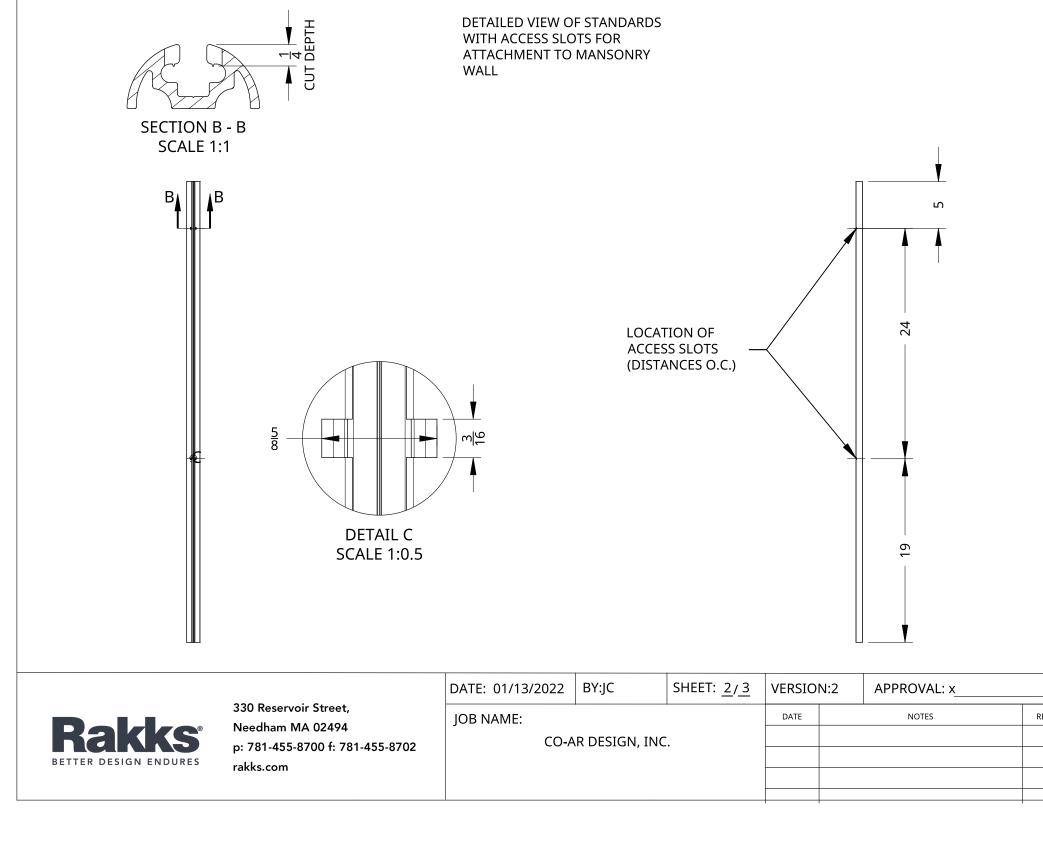
ENL. PLAN / INT. ELEV. KEYNOTES: 🖂

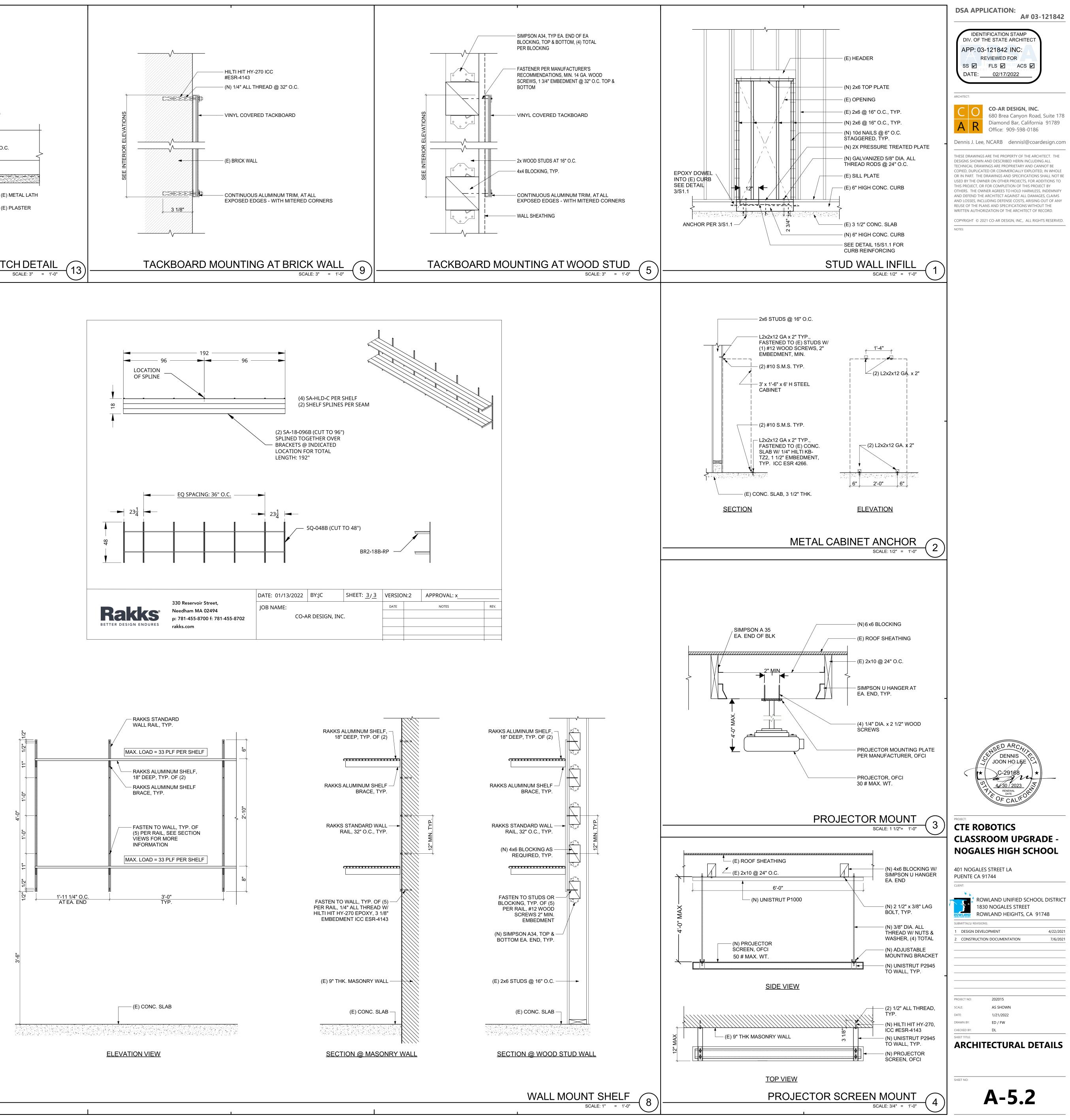
- 01 (E) BRICK WALL, PAINTED. COLOR TO BE SELECTED BY DISTRICT. 108. NEW DOOR, FRAME & HARDWARE PER SCHEDULE, TYP. OF (4).
- 110. NEW 5/8" GYP. BD., PAINTED
- 202. PROVIDE (N) WALL HUNG LAVATORY, SEE PLUMBING DRAWINGS AND 12/A-5.1. 203. PROVIDE (N) ACCESSIBLE WATER CLOSET, SEE PLUMBING DRAWINGS FOR MORE INFORMATION. SEE 12/A-5.1.
- 204. PROVIDE (N) URINAL, SEE PLUMBING DRAWINGS AND 12/A-5.1.
- 205. PROVIDE (N) GLASS MIRROR WITH S.S. ANGLE FRAME, BOBRICK B-290 1836 OR EQ., SEE 12/A-5.1.
- 206. PROVIDE (N) WALL MOUNTED SEAT COVER DISPENSER, BOBRICK B-221 OR EQ., SEE 12/A-5.1.
- 207. PROVIDE (N) GRAB BARS, BOBRICK B-6806 OR EQ., SEE 12 & 13/A-5.1
- 208. PROVIDE (N) SOAP DISPENSER, PER DISTRICT STANDARDS. SEE 12/A-5.1.
- 210. PROVIDE (N) HAND DRYER PER DISTRICT STANDARDS. SEE 12/A-5.1. 211. PROVIDE (N) TOILET TISSUE DISPENSER, PER DISTRICT STANDARDS. SEE 12/A-5.1.
- 212. PROVIDE (N) ACCESSIBLE RESTROOM WALL SIGN, SEE 9/A-5.1
- 214. NEW FLOOR TILE THROUGHOUT, TYP. DALTILE, HAUTE MONDE, COLOR: GLITTERATI GRANITE HM03, UNPOLISHED, 2"X2" MOSAIC.
- 215. NEW 6" FLAT TOP COVE BASE TILE, TYP. DALTILE, WALL CLASSIC, COLOR: WHITE 0100, SEMI-GLOSS, 6"X6" A3601
- 216. NEW WALL TILE, TYP. DALTILE, WALL CLASSIC, COLOR: WHITE 0100, SEMI-GLOSS, 6"X6"
- 217 NEW WALL ACCENT TILE, TYP. DALTILE, WALL CLASSIC, COLOR: WATERFALL 0169, SEMI-GLOSS, 6"X6"
- 218. WALL TILE (SURFACE BULL NOSE), DALTILE, WALL CLASSIC, COLOR: WHITE 0100, SEMI-GLOSS, 2"x6" S4269

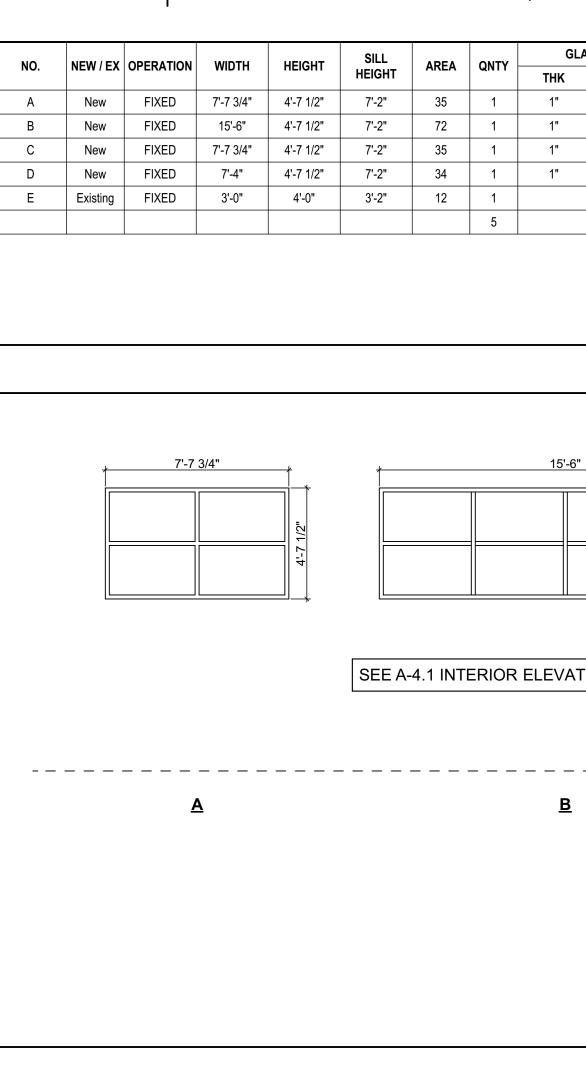








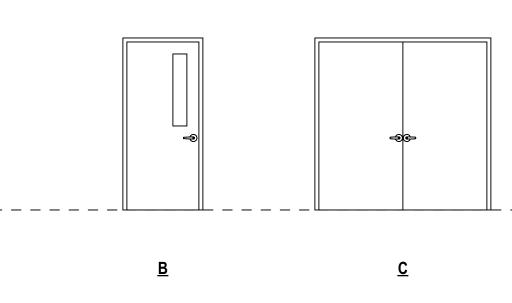


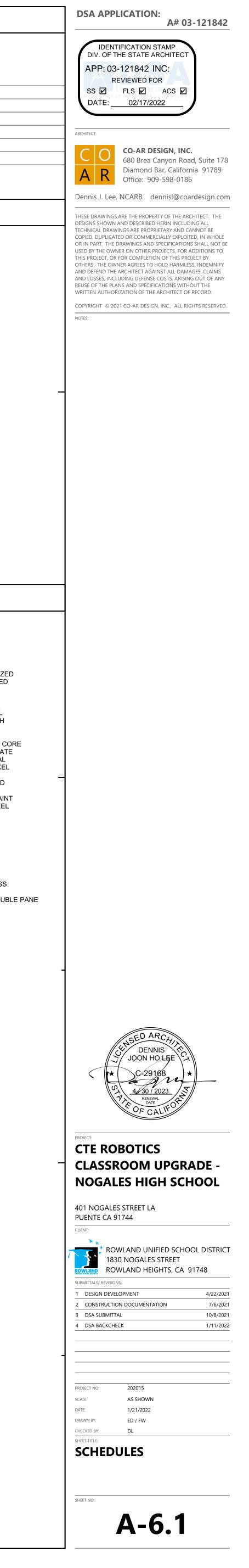


WINDOW GENERAL NOTES

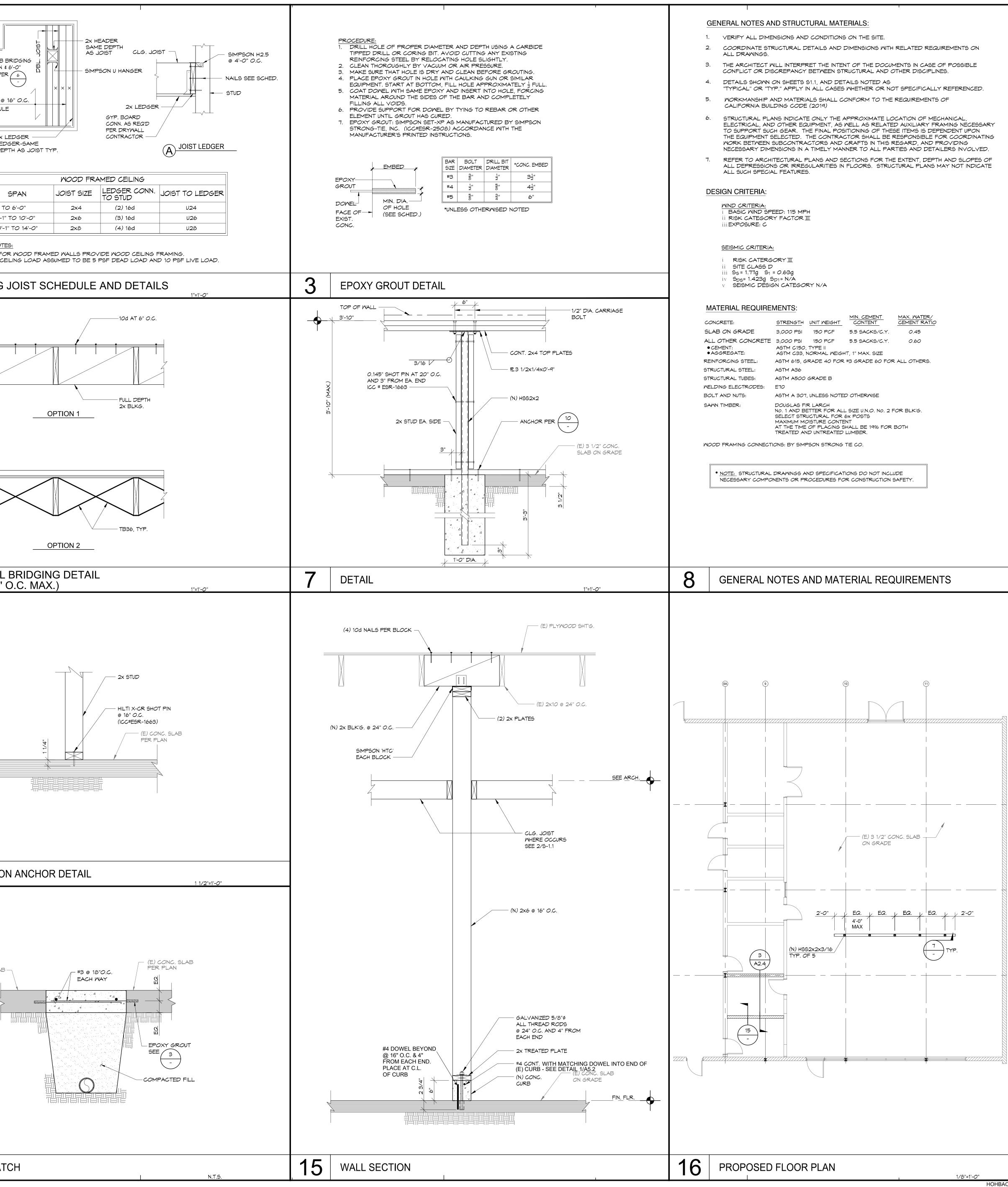
- 1. OVERALL DIMENSIONS SHOWN ARE NOMINAL DESIGN DIMENSIONS. SEE DETAILS AND FIELD VERIFY ROUGH OPENING / EXISTING OPENING DIMENSIONS TO DETERMINE OVERALL FABRICATION DIMENSIONS.
- ALL GLAZING IN DOORS AND ALL SIDELITE/ TRANSOM GLAZING TO BE TEMPERED OR LAMINATED GLASS U.O.N.

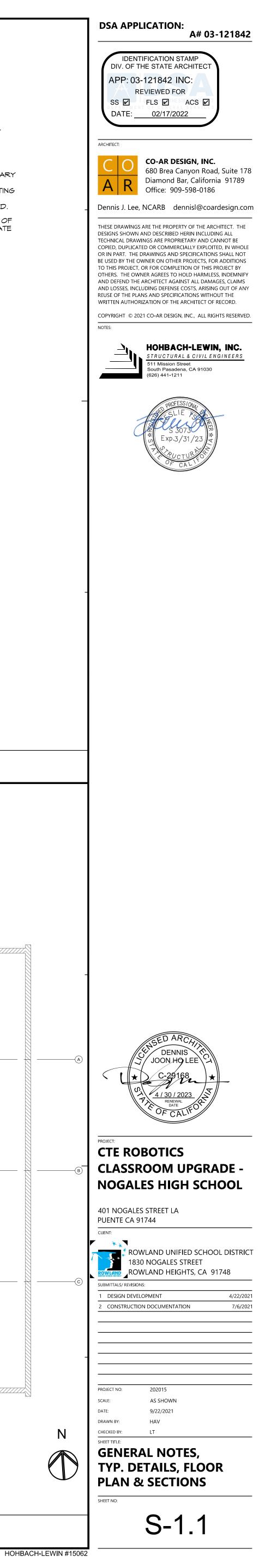
WINDOW SCHEDULE SAZING FRAME DETAILS U VALUE SHGC FIRE NOTES / REMARKS 11 TGL-IN-T ALUM ANOD 1/4.5.1 3.4.4.5.1 2/4.5.1 - - 12 TGL-IN-T ALUM ANOD 1/4.5.1 3.4.4.5.1 2/4.5.1 - - 14 TGL-IN-T ALUM ANOD 1/4.5.1 2/4.5.1 - - - 14 TGL-IN-T ALUM ANOD 1/4.5.1 2/4.5.1 - - - 14 TGL-IN-T ALUM ANOD 5/4.5.1 2/4.5.1 - - - 15 - - - - - - - - - 16 - <td< th=""><th>NO. NEW / EX TYPE WIDTH HEIGHT THK DOOR FRAME HOWE ROUP FIRE RATING 1 Existing A 3'-4' 7'-0' HM GOPT 12'' HM SOPT 03 2 Now B 3'-0' 7'-0' HM SOPT CGLT HM SOPT 04 3 Now B 3'-0' 7'-0' HM SOPT CGLT HM SOPT 04 4 New C 6'-0' 7'-0' HM SOPT 112'' HM SOPT 04 5 Existing C 7'-0' HM SOPT 112'' HM SOPT 04 6 New A 3'-0' 7'-0' HM SOPT 112'' HM SOPT 04 5 Existing C 7'-0' HM SOPT 112'' HM SOPT 04 6 New A 3'-0'' 7'-0' HM SOPT 01 112'''</th><th>REMARKS</th></td<>	NO. NEW / EX TYPE WIDTH HEIGHT THK DOOR FRAME HOWE ROUP FIRE RATING 1 Existing A 3'-4' 7'-0' HM GOPT 12'' HM SOPT 03 2 Now B 3'-0' 7'-0' HM SOPT CGLT HM SOPT 04 3 Now B 3'-0' 7'-0' HM SOPT CGLT HM SOPT 04 4 New C 6'-0' 7'-0' HM SOPT 112'' HM SOPT 04 5 Existing C 7'-0' HM SOPT 112'' HM SOPT 04 6 New A 3'-0' 7'-0' HM SOPT 112'' HM SOPT 04 5 Existing C 7'-0' HM SOPT 112'' HM SOPT 04 6 New A 3'-0'' 7'-0' HM SOPT 01 112'''	REMARKS
B C D E E	A B B G A B G	ABBREVIATIONS: ALUM ALUMINUM ANOD ANODIZED B.ANOD BRONZE ANODIZED B.ANOD BRONZE ANODIZED C.ANOD CLEAR ANODIZED GL GLASS HC HOLLOW CORE HDWD HARDWOOD HM HOLLOW METAL F.F. FACTORY FINISH FOAM FOAM CORE MTL METAL PCC POLYMER CELL CORE P.IAM PLASTIC LAMINATE P.MTL PRESSED METAL P.MTL PRESSED METAL P.MTL PRESSED METAL P.IAM PLASTIC LAMINATE P.MTL PRESSED METAL P.MTL PRESSED METAL P.ID PAINTED S.ANOD SATIN ANODIZED SC SOLID CORE SGPT SEMI-GLOSS PAINT S.S. STAINLESS STEEL STL STEEL STN STAIN WD WOOD GLAZING TYPE: CGL CGL CLEAR GLASS
DGL OKTRE GLASS TO TREBORD TO TREBORD T	 Cores and bit THE TLUS V OPEN INSTITUTE TO BETTING THAT HARDWARE SHALL (0) Cores and a strate of the trade of the core o	OGL OBSCURE GLASS TGL TINTED GLASS -IN INSULATED, DOUBLE -T TEMPERED

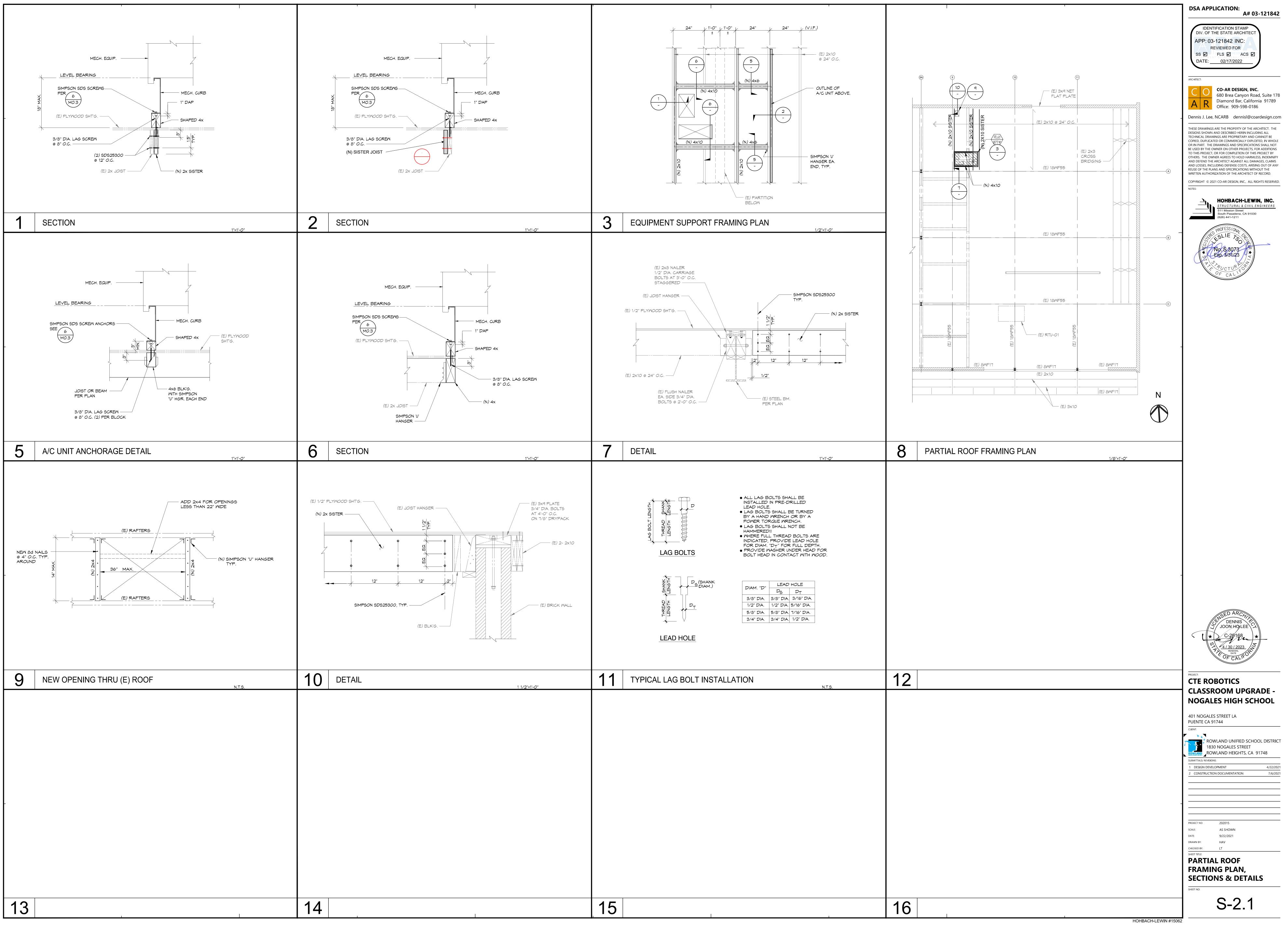




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	TYP. (A CLG. JOIST @ SEE SCHEDUL A 2x LEI DE 0' 1 6'-1 10'- NOT
	0	1. Fc 2. C
1	2	CEILING
_		
5	6	TYPICAL (AT 6'-0"
9	10	PARTITIC
		(E) CONC. SLAE PER PLAN
10	A	.
13	14	SLAB PA





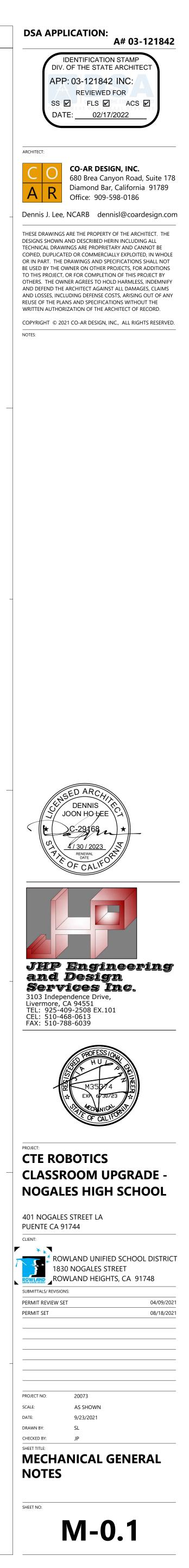


		GENERAL NOTES		
	1.	CONTRACTOR SHALL VISIT JOB SITE TO VERIFY FIELD CONDITION AGAINST CONSTRUCTION PLAN AND SPECIFICATION, IDENTIFY POSSIBLE CONFLICT AND DISCREPANCY BETWEEN PLAN AND SITE CONDITION, AND BRING TO OWNER'S AND ENGINEER'S ATTENTION PRIOR TO ENTER CONTRACT.		ALL WORK SHALL BE IN AC REGULATIONS.
	2.	SUBMISSION OF A CONTRACT SHALL BE CONSTRUCTED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTION OF THE EXISTING BUILDING, EQUIPMENT, SYSTEMS, SITE CONSTRAINTS, ETC, WHICH MAY AFFECT THE ASSOCIATED WORK SCOPE UNDER THIS CONTRACT, AND THE ACCESS TO SUCH SPACES, HAVE ALL BEEN MADE AND THAT THE CONTRACTOR IS FULL AWARE OF WITH EXISTING CONDITIONS AND	2.	ALL NEW DUCT SHALL BE AND SHALL BE BRACED AI RESTRAINT GUIDELINES PI JOINTS AND SEAMS WITH
	3.	DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF WORK. LATER CLAIMS SHALL NOT BE MADE FOR LABOR, EQUIPMENT, OR MATERIAL REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH EXAMINATIONS. BY ENTERING CONTACT OF CONSTRUCTION, WHETHER IT IS SHOWN OR NOT SHOWN ON THIS PLAN,	3.	CONTRACTOR IS DIRECTE PROPOSAL. VERIFY EXACT AND PIPING ASSOCIATED EXAMINATION. SHALL NOT PERMIT THE INSTALLATION
		CONTRACTOR IS FULLY RESPONSIBLE TO COMPLETE WORK WITH MEETING ALL APPLICABLE CODES, LAWS, AND REGULATIONS GOVERNING ANY PORTION OF THE WORK SCOPE ON PLAN AND SPECIFICATIONS. PRIOR TO SUBMITTING A PROPOSAL, CONTRACTOR SHALL FULLY UNDERSTAND AND COVER ALL COSTS WORK SCOPE AND MATERIALS TO MEET ALL APPLICABLE CODES, LAWS, AND REGULATIONS. ANY WORK		OWNER.
	4.	DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED BY THE CONTRACTOR.		ALL MECHANICAL WORK S
	т.	TRADES PRIOR TO INSTALLATION TO AVOID ANY CONFLICT. NO COST SHALL BE INCURRED ON CONSTRUCTABILITY ISSUE DUE TO LACK OF COORDINATION.	7.	INSTALL THE ENTIRE MECH
	5.	ALL WORK SHOWN ON PLAN ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEM AND WORK. INFORMATION ON PLAN SHALL NOT BE USED TO DETERMINE EXACT LOCATION OF INSTALLATION. WHERE INSTALLATION REQUIRES EXACT MEASUREMENTS AND COORDINATION WITH WORKS OF OTHER TRADE, CONTRACTOR SHALL PREFORM ALL REQUIRED WORK AND PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. THE CONTACTOR SHALL ALLOW IN HIS PRICE FOR WORK DONE		NOTIFY OWNER'S REPRESE ACTUAL SITE CONDITION O THE OWNER'S REPRESENT THE DRAWING INDICATES
	6.	WITH DEVIATIONS IN LOCATION AND METHOD TO AVOID OBSTRUCTIONS AND CONFLICT OF OTHER TRADES AND EXISTING UTILIZES OF BASE BUILDING. CONTRACTOR SHALL SUBMIT SPECIFICATIONS OF ALL THE MATERIALS AND EQUIPMENT TO BE USED		EQUIPMENT. MAKE DEVIAT SITE CONDITIONS AND TO DOCUMENT, WHETHER SH BE MADE AT NO EXTRA EX
	7.	ALONG WITH SHOP DRAWING WHERE REQUIRES IN SPECIFICATION FOR APPROVAL PRIOR TO ORDER. ALL NEW WORK CONNECTING TO EXISTING BASE BUILDING UTILIZES SHALL BE FULLY COORDINATED WITH	10.	OBTAIN AND FOLLOW MAN OPERATING AND MAINTEN
		REPRESENTATIVE OF OWNERSHIP TO RESULT MINIMUM INTERFERENCE TO EXISTING FACILITIES. TEMPORARY UTILITY SHUT-DOWN TO EXISTING BUILDING SERVICE SHALL BE APPROVED BY OWNERSHIP WITH WRITTEN CONSENT OF BUILDING OWNER AND SHALL INCURRED NO ADDITIONAL CHARGES. FOLLOW	11.	COORDINATE ALL CUTTING SHALL BE RESPONSIBLE F
		ALL REQUIRED CLEANING PROCEDURES AND CONNECTION REQUIREMENT PRIOR TO ESTABLISH SERVICE AFTER CONNECTION. WHERE CONTINUOUS OPERATION OF EXISTING BUILDING SERVICES ARE REQUIRED, PROVIDE WORKMANSHIP AND MATERIAL FOR ISOLATION BETWEEN BUILDING AND PROJECT SPACE, RESTORE BUILDING SERVICE IMMEDIATELY WITH MAINTAINING ORIGINAL OPERATING CONDITION.	12.	COORDINATE ALL WORK V DRAWINGS, INSTALL ALL V MEMBERS.
	8.	CONTRACTOR SHALL STORE ALL EQUIPMENT AND MATERIAL IN A ORGANIZED AND CLEANED SPACE AT ALL TIME TO PREVENT FROM DAMAGING AND DETERIORATION PRIOR TO INSTALLATION. CONTRACTOR SHALL KEEP ALL PART OF THE CONSTRUCTION AREA AND ASSOCIATED ACCESSES CLEAN AND FREE OF DEBRIS RESULTING FROM EXECUTION OF WORK.		FURNISH AND INSTALL CO NECESSARY FOR COMPLE CONTRACTOR SHALL GUA
-	9.	ALL LOCATION OF EXISTING UTILITIES ARE SHOWN BASED ON RECORD DRAWING OR INFORMATION PROVIDED BY SURVEYOR OR BASE BUILDING. CONTRACTOR IS RESPONSIBLE TO VERIFY EXACT LOCATION, SIZE, CONDITION, MATERIAL, AND INVERT AS APPLICABLE TO CONFIRM CONSTRUCTABILITY PRIOR TO INSTALL.		FROM FAULTY MATERIALS FROM THE OWNER, AND T APPEARING IN SAID WORK COMPLETIONS.
	10.	ALL EQUIPMENT INSTALLED SHALL BE PROVIDED WITH ACCESS AND CLEARANCES MEETING CODE REQUIREMENT AND REQUIREMENTS OF FACTORY INSTALLATION GUIDELINES FOR MAINTENANCE. WHERE	15.	ALL SUPPLY AIR DUCTWOF
		ACCESS SHALL BE PROVIDED FOR OPERATION, INSPECTION, TESTING, BALANCING, MAINTENANCE, OR CODE COMPLIANCE, WHETHER SHOWN ON NOT SHOWN ON ARCHITECTURAL PLAN, CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR FOR PROVISION OF SUCH ACCESS.		RESTORE ALL DAMAGE AN
	11.	ANY INVASIVE CONSTRUCTION, SUCH AS CORE-DRILLING, CUTTING, BORING, OPENING, TO EXISTING	10	MANUALS, DIAGRAMS SER
		BUILDING FLOOR OR WALL, STRUCTURAL OR NON-STRUCTURAL RELATED, SHALL BE SUBJECTED TO WRITTEN APPROVAL BY REPRESENTATIVE OR OWNERSHIP OF BASE BUILDING. WHERE REQUIRED BY OWNER, PROVIDE SHOP DRAWING WITH DETAILED MEANS AND METHODS WITH DIMENSIONAL RESULTS OF X-RAY SCANNING AS EVIDENCE TO ENSURE NO DAMAGE WILL CAUSE TO EXISTING BUILDING STRUCTURE OR UTILITY PRIOR TO PERFORM SUCH WORK. NO CONSTRUCTION SHALL BE DONE IN RESULTING OF ANY		THE DRAWING. AIR BALAN REPORT TO THE ENGINEEI
		DAMAGING OR DERATING OF BUILDING STRUCTURE INTEGRITY AND UTILITY SERVICEABILITY.		MANUALS, DIAGRAMS SEF
	12.	ANY OPENING MADE TO EXISTING BUILDING SHALL BE SUPPORTED, PATCHED, AND SEALED TO MEET ALL SPECIFICATION OF ORIGINAL CONSTRUCTION. ALL PENETRATION TO RATED ASSEMBLY SHALL BE PROTECTED BY UL LISTED FIRM AND/OR SMOKE PROTECTION ASSEMBLY TO MAINTAIN ORIGINAL ASSEMBLY FIRE AND SMOKE RATING.		TEST AND BALANCE ALL E THE DRAWING. AIR BALAN REPORT TO THE ENGINEEI THE MATERIAL OF THE DU
	13.	CONTRACTOR SHALL PROVIDE INSURANCE POLICY IN ACCORDANCE TO BUILDING OWNER'S AND PROJECT OWNER'S REQUIREMENTS INCLUDING A HOLD HARMLESS CAUSE FOR OWNER AND ENGINEER ON RECORD.		DUCTS : GALVANIZED SHE CEILING SPACE : GALVANI FLEXIBLE DUCT SHALL BE
	14.	FOR THE USE OF EQUIPMENT OR MATERIAL THAT ARE DIFFERENT FROM SCHEDULES OR SPECIFICATIONS, CONTRACTOR IS RESPONSIBLE TO PROVIDE, INCLUDING BUT NOT LIMITED TO, SPECIFICATION, CALCULATION, ENGINEERING, COST DIFFERENCE, ETC. FOR APPROVAL OF EQUAL AND OWNER'S APPROVAL.	22	KITCHEN EXHAUST DUCTS METHODS AND STANDARE ALL ELECTRICAL MATERIA
	15.	ALL WORK DONE SHALL BE GUARANTEED FOR A PERIOD OF TWO YEARS FROM DATE OF ACCEPTANCE OF		DUCTWORK SHALL BE SUF
	16.	WORK. PRIOR TO FINAL ACCEPTANCE BY OWNER OR REPRESENTATIVE OF OWNER, CONTRACTOR IS RESPONSIBLE	24.	SHEET METAL DUCTWORK
	10.	TO TEST, ADJUST, AND BALANCE ALL ASSOCIATED EQUIPMENT AND SYSTEM WITHIN SCOPE WITH PROVISIONS OF REPORTS WHERE REQUIRED IN SPECIFICATIONS TO DEMONSTRATE THAT ALL		SEAL ALL TRANSVERSE JC
		REQUIREMENTS OF PLANS AND SPECIFICATIONS ARE FULLY MET AND ALL APPLICABLE CODES, LAWS, AND REGULATIONS ARE FULLY COMPLIED.	20.	INSULATED TO ACHIEVE TH AND 503.7.3(1). APPROVED SOUND DEADENING, OR C EROSION-RESISTANT SURI AIR DUCTS IN CHAPTER 17 COVERINGS, LININGS, TAP INDEX NOT GREATER THAN (50), WHEN TESTED AS A C
			27.	RECTANGULAR DUCT AND AND RECTANGULAR DUCT PRODUCT CONVEY DUCT, 2019 CMC TABLE 506.2(1)
			28.	CONTRACTOR SHALL COC FOR APPROPRIATE SIZE, T
			29.	FLEXIBLE DUCTS MAY BE U MAXIMUM 5 FEET LENGTH
			30.	VERIFY THERMOSTAT/SWI
			31.	MECHANICAL CONTRACTO LIMITED TO WIRING IN COM MOTORS, LINKAGES, CON PNEUMATIC TUBES, PNEU ALL FUNCTIONS.
			32.	DUCT TESTING AND SEALI SHALL BE SUBMITTED TO
			33.	PROVIDE ACCESS PANELS AND CONTROL VALVES. C
			34.	FIRE DAMPER AND FIRE/SN AND LISTING AGENCY.

HVAC GENERAL NOTES	DRAWING INDEX
ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL CODES, LAWS AND	M-0.1 MECHANICAL GENERAL NOTES AND INFORMATION M-0.2 MECHANICAL EQUIPMENT SCHEDULES
E SUPPORTED PER THE MINIMUM REQUIREMENT OF LATEST SMACMA GUIDELINE,	M-0.3 MECHANICAL DETAILS M-0.4 MECHANICAL PRESCRIPTIVE TITLE 24 COMPLIANCE M-0.5 MECHANICAL PRESCRIPTIVE TITLE 24 COMPLIANCE
AND GUYED TO PREVENT LATERAL OR HORIZONTAL SWING; THE USE OF SEISMIC PER SMACNA IS ALSO APPLICABLE (604.2 and 604.5). FASTEN ALL DUCT WORK H SHEET METAL SCREW AND CAULK AIR TIGHT TO AVOID AIR STREAK.	M-0.5 MECHANICAL PRESCRIPTIVE TITLE 24 COMPLIANCE M-1.0 PARTIAL GROUND FLOOR MECHANICAL REFLECTED CEILI M-2.0 PARTIAL ROOF MECHANICAL PLANS
TED TO VISIT SITE AND BE FULLY COGNIZANT OF ALL CONDITIONS PRIOR TO CT LOCATION, ELEVATIONS, SIZES AND CONDITIONS OF EXISTING UTILITIES, DUCTS	APPLICABLE CODE
D WITH THE PROJECT ANY EXTRA EXPENSE DUE TO FAILURE TO MAKE SUCH DT BE MADE. WHERE CHANGES IN THE EXISTING WORK ARE NECESSARY TO DN OF NEW WORK, THEY SHALL BE MADE AT NO ADDITIONAL COST TO THE	2019 CALIFORNIA BUILDING CODE
	2019 CALIFORNIA MECHANICAL CODE 2019 CALIFORNIA PLUMBING CODE 2019 CALIFORNIA ENERGY CODE
STAIN AND PAY FOR ALL REQUIRED UTILITY SERVICES, INSPECTIONS AND PERMITS.	2019 CALIFORNIA FIRE CODE 2019 NFPA 13
SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.	ALL AMENDMENTS AND SUPPLEMENTS TO ABOVE CODES ALL CITY OF LA PUENTE ORDINANCES AND AMENDMENTS TO ABOVE
CHANICAL SYSTEM TO ELIMINATE ANY OBJECTIONABLE VIBRATION AND NOISE.	SCOPE OF WORK
SENTATIVE IMMEDIATELY IF A DISCREPANCY BETWEEN THE DRAWING AND THE N OCCURS. STOP THE WORK THAT IS AFFECTED AND OBTAIN INSTRUCTION FROM	DEMOLISH AND REMOVE EXISTING DUCTWORK PER PLAN AND A
NTATIVE BEFORE THE WORK CAN BE RESTARTED.	FURNISH AND INSTALL NEW PACKAGED ROOFTOP HEAT PUMP UNDER COMPONENTS PER PLAN FOR PROPER SYSTEM FUNCTIONALITE
ATIONS SUCH AS OFFSETS IN DUCTS AND PIPES THAT ARE NECESSARY TO MEET TO COORDINATE WORK WITH OTHER TRADES. ALL DEVIATIONS TO THE CONTRACT SHOWN OR NOT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL EXPENSE TO THE OWNER.	 FURNISH AND INSTALL EXHAUST FAN SYSTEM WITH ALL ASSOCI PROPER SYSTEM FUNCTIONALITIES. PROVIDE MATERIAL AND LABOR FOR HAVC SYSTEM BALANCING
ANUFACTURER'S DIRECTIONS WHEN INSTALLING NEW EQUIPMENT. SUBMIT ENANCE MANUALS.	
NG AND PATCHING WITH GENERAL CONTRACTOR, INDIVIDUAL SUB-CONTRACTOR FOR ALL CUTTING AND PATCHING TO THEIR WORK.	
WITH ARCHITECTURAL, ELECTRICAL AND STRUCTURAL, AND PLUMBING WORK TO CLEAR NEW AND EXISTING ARCHITECTURAL AND STRUCTURAL	
COMPLETE ALL MATERIALS, EQUIPMENT AND LABOR AS SHOWN AND AS LETE WORKABLE SYSTEM.	
JARANTEE THAT THE WORK DONE UNDER THIS SPECIFICATION WILL BE FREE	
TO ITS ENTIRE SATISFACTION, ALL DEFECTS, DAMAGES OR IMPERFECTIONS RK WITHIN A PERIOD OF ONE (1) YEAR FROM DATE OF FILING NOTICE OF	
ORK WITHIN UN-CONDITIONAL SPACE SHALL BE EXTERNALLY OR INTERNALLY JM R-8 INSULATION.	
AND LEAVE PREMISES IN CLEAN CONDITION WHEN FINISHED WITH WORK.	
R TWO SETS OF AS-BUILT DRAWINGS AND TWO BOUND SETS OF ALL OPERATING ERVICE CONTRACTS, GUARANTEES, ETC.	
EQUIPMENT AND DEVICES TO PERFORM AND DELIVER SPECIFIED QUANTITIES ON NCING SHALL BE PERFORMED BY 3RD PARTY. SUBMIT 4 SET OF AIR BALANCE ER PRIOR FINAL.	
R TWO SETS OF AS-BUILT DRAWINGS AND TWO BOUND SETS OF ALL OPERATING ERVICE CONTRACTS, GUARANTEES, ETC.	
EQUIPMENT AND DEVICES TO PERFORM AND DELIVER SPECIFIED QUANTITIES ON NCING SHALL BE PERFORMED BY 3RD PARTY. SUBMIT 4 SET OF AIR BALANCE ER PRIOR FINAL.	
DUCTS SHALL BE AS FOLLOWING; a) RECTANGULAR DUCTS AND ANY EXPOSED HEET METAL WITH GAUGE PER LATEST SMACNA STANDARD. b) ROUND DUCTS IN NIZED SHEET METAL WITH GAUGE PER LATEST SMACNA STANDARDS. CLASS 1 BE USED NOT MORE THAN 5 FT. FROM THE AIR IN/OUTLET. c) BATHROOM & TS AND DRYER VENTS : GALVANIZED SHEET METAL INSTALL IN ACCORDANCE WITH RDS OF ASHRAE AND SMACNA FOR LOW PRESSURE CONSTRUCTION.	
IALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITER'S LABORATORIES.	
UPPORTED PER SMACNA STANDARDS.	
RKS SHALL BE CONSTRUCTED PER SMACNA STANDARDS.	
JOINTS OF AIR DUCTS WITH DUCT SEALANT PER SMACNA STANDARD.	
THE MINIMUM THERMAL (R) VALUE AS SET FORTH IN 2019 CMC TABLE E 503.7.2(2) ED MATERIALS SHALL BE INSTALLED ON DUCTS AND PLENUMS FOR INSULATING, COTHER PURPOSES. MATERIALS SHALL HAVE A MOLD, HUMIDITY, AND IRFACE THAT MEETS THE REQUIREMENTS OF THE REFERENCED STANDARD FOR 17. INSULATION APPLIED TO THE SURFACE OF DUCTS, INCLUDING DUCT APES, AND ADHESIVES, LOCATED IN BUILDINGS SHALL HAVE A FLAME-SPREAD	
AN TWENTY-FIVE (25) AND A SMOKE DEVELOPED INDEX NOT GREATER THAN FIFTY COMPOSITE INSTALLATION.	
ND PLENUMS SHALL BE FABRICATED OF GALVANIZED STEEL. INSULATE PLENUMS CTING AS INDICATED. DUCT SHALL HAVE THE MINIMUM GAUGE PER SMACNA. FOR T, MINIMUM GAUGE OF SHEET METAL SHALL MEET REQUIREMENTS LISTED ON) AND TABLE 506.2(2).	
OORDINATE WITH ARCHITECT BEFORE PURCHASING DIFFUSERS AND REGISTERS TYPE, FINISH, AND INSTALLATION LOCATION.	
E USED IN BETWEEN JOISTS AND AT CONNECTION TO DIFFUSERS WITHIN A TH. FLEXIBLE DUCT SHALL BE LISTED AND LABELED UMC 10-1 (UL181).	
VITCH LOCATIONS W/ARCHITECT PRIOR TO INSTALLATION.	
TOR SHALL PROVIDE ALL APPURTENANCES WHICH SHALL INCLUDE BUT NOT ONDUIT AS REQUIRED BY CODE, CONTROL DEVICES, DAMPER, ACTUATORS,	
UNDOIT AS REQUIRED BT CODE, CONTROL DEVICES, DAMPER, ACTORTORS, UNTROLLERS, RELAYS, CONTRACTORS, REDUCED VOLTAGE TRANSFORMERS, UMATIC CONTROL VALVES, ETC. AS REQUIRED TO AUTOMATICALLY PERFORMED	
LING SHALL BE PERFORMED BY HERS RATER AND THE CERTIFICATE & FORMS O THE CITY.	
LS FOR ALL FIRE DAMPERS, FIRE/SMOKE DAMPERS AND ACCESS FOR SHUT-OFF COORDINATE ALL CEILING AND WALL ACCESS WITH GENERAL CONTRACTOR.	
SMOKE COMBINATION DAMPERS SHALL BE LABELED BY AN APPROVED TESTING	

	SYMBOL		DESC	RIPTION	
	UP -		EQUIPMENT EQUIPMENT		
					BER
LING PLANS	M-?/ -		DETAIL DRAV	WING PAGE	
			SUPPLY)		
					JLAR DUCT SECTION/UP RATION THROUGH
			RETURN	FLOOR/RO	OF).
		-200 20x10 B	HEIGHN J		
		∑K•₩— _ <u>-200</u> _20x10B	CEILING EXH	HAUST REG	ISTER
VE CODES			CEILING RE	TURN REGIS	STER
		200 (A)	CEILING SU		TOP FIGURE INDICATES CFM. BOTTOM FIGURES INDICATES NECK SIZE,
		20/10/0	DIFFUSER W FLEXIBLE DU	JCT	DIRECTION AND NUMBER OF THROWS ON
ALL OTHER REQUIRED COMPONENTS.		<u>-200</u> /20x10 B	AND AIRFLC PATTERN)VV	SUPPLY DIFFUSER. DUCT SIZE IS FULL > SIZE OF DIFFUSER/REGISTER
P UNITS WITH ALL ASSOCIATED			SIDEWALL E OR RETURN		CONNECTION. LETTER INSIDE CIRCLE INDICATES DIFFUSER TYPE. SEE DIFFUSER
TES.			REGISTER		SCHEDULE FOR DIFFUSER TYPES.
CIATED COMPONENTS PER PLAN FOR G, TESTING, AND SCHEDULING.		90B 3"Lx1x2"B	LINEAR SLO		FIGURE INDICATES CFM. BOTTOM FIGURE
a, restina, And scheddelina.			DIFFUSER	2	
	{ 12x8	3			VITH NET INSIDE DIMENSIONS ROW INDICATES FLOW DIRECTION.
	1 12x8				ACOUSTICAL INSULATION.
		<u> </u>			RE NET INSIDE IN INCHES.
	2 12"@		ROUND DUC		T INSIDE DIMENSION SHOWN
	2 12"Ø S	ss j	316L WELDE	D STAINLES	SS STEEL DUCT
				-	RNING VANES PPLY DUCT ONLY
			R/D =1.5, 9	0° / 45° RAD	IUS ELBOW
					RECTANGULAR DUCT ALS 150% OF BRANCH AREA
	/ { 12x8				ECTANGULAR DUCT ALS 150% OF BRANCH AREA
	£ 12"Ø		ROUND DUC	CT WITH 45°	TAKE-OFF
			CONCENTR	IC / ECCEN	TRIC DUCT REDUCER
			≻ DUCT TO FI	LTER HOUS	CTANGULAR, ROUND TO ROUND OR SING TRANSFORMATION. MAX. EXCEPT WHERE SHOWN OTHERWISE.
) 	DEOTANIOLI		
		δ	RECTANGU	LAR TO ROU	JND DUCT TRANSFORMATION
			MANUAL SII VOLUME DA		E OR MULTIPLE BLADE
	F	<u>SD</u>	FIRE/SMOK	E DAMPER	W/ DUCT ACCESS PANEL
			FLEXIBLE C	ONNECTIO	N IN DUCT
	ABBR.	DESCRIPTION		<u>ABBR.</u>	DESCRIPTION
	AFF	ABOVE FINISHED	FLOOR	ICS INS	IN CEILING SPACE INSULATION (THERMAL)
	B.G. BLDG	BELOW GRADE BUILDING		MA	MAKE-UP AIR
	BSMT	BASEMENT		NIC	NOT IN CONTRACT
	CFF CLG	CAP FOR FUTURE CEILING		OSA	OUTSIDE AIR (FRESH AIR)
	CSD	CEILING SUPPLY I	DIFFUSER		POINT OF CONNECTION
	EA	EXHAUST AIR			
	DN	DOWN		RA	RETURN AIR
	FA	FRESH AIR		SA SAD	SUPPLY AIR SEE ARCHITECTURAL DRAWING
	FL	FLOOR		SOV SRR	SHUT-OFF VALVE SIDEWALL RETURN REGISTER
	FR	FROM		UTR	UP THROUGH ROOF
	FR	FROM		U.G.	UNDERGROUND/BELOW GRADE
	GE	GREASE EXHAUS	Т	VTF	VENT THROUGH ROOF
	KEA	KITCHEN EXHAUS	IT AIR		
	SYMBOL	ABBREV.	DESCRIP	TION	
	TAGŪ#		DIGITAL F	PROGRAMN	IABLE THERMOSTAT
		CSD	CEILING S	SUPPLY DIF	FUSER W/ MANUAL VOLUME DAMPER
		CRR	CEILING I	RETURN RE	GISTER W/ MANUAL VOLUME DAMPER
		CRR			RILLE W/ MANUAL VOLUME DAMPER
		MVD/OBD		·	OPPOSED-BLADE BALANCING DAMPER
		UP			OTH 90° ELBOW
		DN.	DUCT DO ELBOW	WN WITH S	MOOTH 90°
		, AP	ACCESS	PANEL	
		– DSD			
		FD			
		- POC - POD		CONNECTI	
		- POD - FSD			MPER COMBO
			/		
		I			

LEGENDS, SYMBOLS AND ABBREVIATIONS



	AREA SERVED	MANUFACT	URE / MODEL NC	. NOMINAL COOLING	TOTAL SENSIBLE	EER/IEER	IANCE NO. OF COMPRE-	COOLING	TOT	ΓAL	
		C	ARRIER /	TONNAGE	(MBTUH)	/SEER	SSOR	STAGE	CAPACITY	(MBTUH)	1
(E)RTU-01	OPEN LAB AREA ROBOTOICS	48GCLN	ARRIER /	5.0	48.32	/16.1	1	1	6	0	
RTU-02	CLASSROOM AREA		106A3A5-0A0A0	5.0	48.32	/16.1	1	2	60.0/	/49.0	
c. d. 2 PROVII 3 COORI 4 UNIT S CONFI 5 FAN OI	TWO STAGE COO FACTORY DIRECT TITLE 24 COMPLI, PROVIDE UNIT WI DE AND INSTALL F DINATE WITH PLUM HALL BE PROGRAM RM WITH OWNER F UNIT SHALL BE S NG THE SAME PRO	FAN MOTOF ANT ECONON TH FACTORY ACTORY REC MBING CONT MMED TO OF FOR BUSINES	R WITH MOTORIZE MIZER WITH FDD A WITH WEATHER COMMENDING RC RACTOR FOR INS PERATE 2 HOURS SS HOURS. BY FACP UPON D	D DAMPER D ND BAROME HOOD, 2-INCH OF CURB WIT FALLATION OF BEFORE BUSI	OWNFLOW C TRIC RELIEF H MERV-13 D TH KNOCK-D = ¾"Ø COND NESS HOUR FIRE OR SM TAILS.	Damper. Isposable re own. Ensate drain For pre-hea	TURN AND (N TO UNIT WI T/PRE-COOL SMOKE DET	TH VENT AI _ SPACE FC	ND TRAP.		
	ITEM		LOCATIO	N	INSULATIO	N TYPE	MIN. R-VA	ALVE	MIN. TH	IICKNESS	,
SUPP	LY AIR DUCT/PLEN	IUM	EXTERIOR A		FIBERGI	LASS	R-8			3"	
RETU	RN AIR DUCT/PLEN	IUM	EXTERIOR A		FIBERGI	LASS	R-8			3"	
	LY AIR DUCT/PLEN		INDIRECT CONE SPACE	ITIONAL	FIBERGI	LASS	R-4.2		1	1.5"	
	L ACOUSTICAL LIN PPLY DUCT/PLENU		ALL		ACOUSTIC	C FOAM	R-4.2			1"	
	DENSATE WATER F	PIPE	INDOOF		FIBERGI	LASS	R-3		().5"	
	ISULATION OR ACC										
			CFM		EXH	ELECTRICAL					
								L EC	UIPMENT	UL LISTING	Γ
TAG	MAKE/MO	DEL	MIN MAX	ESP FRP		Ø BHP EN	ICL. FLA	HP S NATT	ERVING		D
EF-01 REMARK: D PROVID D INSTALL D EXHAUS	MAKE/MO PANASON FV-11VC E EQUIPMENT AS EXHAUST FAN TC ST FAN SHALL BE E ST FAN SHALL BE C	NIC/ 23 SCHEDULED MAINTAIN A EQUIPPED WI	MIN MAX N/A 110 OR APPROVE EQ CCESS AND MAIN TH BACK-DRAFT I	UAL. TENANCE CL DAMPER.	VOLTS 115 EARANCES F	1 PER MANUFAC	0.26 1/3	NATT RES	STROOM/ ANITOR	UL705	D
EF-01 REMARK: D PROVID D INSTALL EXHAUS EXHAUS	PANASON FV-11VC E EQUIPMENT AS EXHAUST FAN TC ST FAN SHALL BE E	NIC/ 23 SCHEDULED MAINTAIN A EQUIPPED WI CONTROLLEE	MIN MAX N/A 110 OR APPROVE EQ CCESS AND MAIN TH BACK-DRAFT I	UAL. TENANCE CL DAMPER. H WITH ADJU	VOLTS 115 EARANCES F	1 PER MANUFAC	0.26 1/3	NATT RES	STROOM/ ANITOR		
EF-01 REMARK: D PROVID D INSTALL EXHAUS EXHAUS EXHAUS EXHAUS Unit Para Unit Para Unit Si Volts-F Heatin Duct C Ultra L Two S Lines an Gas Li Conde Return Return Return Return Return	PANASON FV-11VC E EQUIPMENT AS EXHAUST FAN TO TEAN SHALL BE E ST FAN SHALL BE E TFAN SHALL BE C JHP - Nogale HS BY FAN SHALL BE C JHP - Nogale HS d By: Bruno Hoang 4860 Ze: Phase-Hertz: g Type: Phase-Hertz: g Type: State Drain Line Size: Now Nox, Low Heat tage Cooling Models d Filters ne Size: nsate Drain Line Size: Air Filter Type: Air Filter Quantity: Air Filter Size: Drive - EcoBlue - High State	NIC/ 23 SCHEDULED MAINTAIN A EQUIPPED WI CONTROLLEE Un CGM06A3A5-0A0. 06 (5 Tor 208-3- Goly / Vertical Retu	MIN MAX N/A 110 OR APPROVE EQ CCESS AND MAIN TH BACK-DRAFT I D BY LIGHT SWITC D BY LIGHT SWITC D BY LIGHT SWITC D Imension O Unit Le Unit Weig Mo So So So So So So So So So So So So So	UAL. TENANCE CL DAMPER. H WITH ADJUS	VOLTS 115 EARANCES F STABLE TIME ht (lb.) *** 6' 2. 3' 10. 3' 5. nt: approximate dimensions purposes. For exact to appropriate product D 98 lb	1 PER MANUFAC ER DELAY-OFF 09/29/2021 09:07AM	0.26 1/3	NATT RES	STROOM/ ANITOR		
EF-01 REMARK: D PROVID 2 INSTALL 3 EXHAUS 4 EXHAUS 4 EXHAUS 4 EXHAUS 4 EXHAUS 5 Volts-F Heatin Duct C Unit Para Unit M Unit Si Volts-F Heatin Duct C Ultra L Two S Lines an Gas Li Conde Return No opt	PANASON FV-11VC E EQUIPMENT AS EXHAUST FAN TO TEAN SHALL BE E ST FAN SHALL BE E TFAN SHALL BE C JHP - Nogale HS BY FAN SHALL BE C JHP - Nogale HS d By: Bruno Hoang 4860 Ze: Phase-Hertz: g Type: Phase-Hertz: g Type: State Drain Line Size: Now Nox, Low Heat tage Cooling Models d Filters ne Size: nsate Drain Line Size: Air Filter Type: Air Filter Quantity: Air Filter Size: Drive - EcoBlue - High State	NIC/ 23 SCHEDULED MAINTAIN A EQUIPPED WI CONTROLLEE Un CGM06A3A5-0A0, 06 (5 Tor 208-3- G 06 (5 Tor 208-3- G oly / Vertical Retu And And And And And And And And And And	MIN MAX N/A 110 OR APPROVE EQ CCESS AND MAIN TH BACK-DRAFT I D BY LIGHT SWITC D BY LIGHT SWITC D Imension On Unit Le Unit Weig Mo Out the Unit Weig Mo Out the So Out the Unit Weig Mo Out the CO Out the CO CO CO CO CO CO CO CO CO CO CO CO CO	0.5 979 UAL. TENANCE CL DAMPER. H WITH ADJUS TU 1 Tu	VOLTS 115 EARANCES F STABLE TIME ht (lb.) *** 6' 2. 3' 10. 3' 5. ht: approximate dimensions purposes. For exact to appropriate product D 98 lb 2 lb 2 lb	1 PER MANUFAC ER DELAY-OFF 09/29/2021 09:07AM	0.26 1/3	NATT RES	STROOM/ ANITOR		
EF-01 REMARK: D PROVID 2 INSTALL 3 EXHAUS 4 EXHAUS 4 EXHAUS 4 EXHAUS 4 EXHAUS 5 Volts-F Heatin Duct C Unit Para Unit M Unit Si Volts-F Heatin Duct C Ultra L Two S Lines an Gas Li Conde Return No opt NOTE	PANASON FV-11VC E EQUIPMENT AS EXHAUST FAN TO ST FAN SHALL BE E ST FAN SHALL BE C ST FAN SHALL BE C JHP - Nogale HS d By: Bruno Hoang JHP - Nogale HS d By: Bruno Hoang ameters odel: 48G 22: 48G 24 Phase-Hertz: 7 g Type: 48G 25 Phase-Hertz: 7 g Type: 48G 26 Phase-Hertz: 7 g Type: 48G 27 Phase-Hertz: 7 g Type: 48G 27 Phase-Hertz: 7 g Type: 48G 28 Phase-Hertz: 7 g Type: 48G 29 Phase-Hertz: 7 g Type: 48G 20 Phase-Hertz: 7 Phase-Hertz: 7 Pha	NIC/ 23 SCHEDULED MAINTAIN A EQUIPPED WI CONTROLLEE CONTROLLEE CONTROLLEE Un CONTROLLEE Un CONTROLLEE	MIN MAX N/A 110 OR APPROVE EQ CCESS AND MAIN TH BACK-DRAFT I D BY LIGHT SWITC D BY LIGHT SWITC D Imension O DIMENSION OUNIT LE UNIT Weig Not in providime data 1/2 3/4 ay 4 C 2 Tota nent devices	0.5 979 UAL. TENANCE CL DAMPER. H WITH ADJUS TU 1 Tu	VOLTS 115 EARANCES F STABLE TIME ht (lb.) *** 6' 2. 3' 10. 3' 5. ht: approximate dimensions purposes. For exact to appropriate product D 98 lb 2 lb thods.	1 PER MANUFAC R DELAY-OFF 09/29/2021 09:07AM	0.26 1/3	NATT RES	STROOM/ ANITOR		
EF-01 REMARK: D PROVID 2 INSTALL 3 EXHAUS 4 EXHAUS 4 EXHAUS 4 EXHAUS 4 EXHAUS 5 Volts-F Heatin Duct C Unit Para Unit M Unit Si Volts-F Heatin Duct C Ultra L Two S Lines an Gas Li Conde Return No opt NOTE	PANASON FV-11VC E EQUIPMENT AS EXHAUST FAN TC TAN SHALL BE E TFAN SHALL BE C JHP - Nogale HS BY FAN SHALL BE C JHP - Nogale HS BY Bruno Hoang Ameters odel: 48GC 20: 20 Phase-Hertz: 9 Phase-Hertz: 9 Phase-Hertz: 9 Phase-Hertz: 9 ST FAN SHALL BE C Alter S Mage Cooling Models d Filters ne Size: 10 nsate Drain Line Size: 48GC Air Filter Type: 48GC Air Filter Size: 10 Air Filter Size:	NIC/ 23 SCHEDULED MAINTAIN A EQUIPPED WI CONTROLLED Un CGM06A3A5-0A0 06 (5 Tor 208-3- G 06 (5 Tor 208-3- G 00 (5 Tor 208-3- 16 x 16 2 00 (5 Tor 16 x	MIN MAX N/A 110 OR APPROVE EQ CCESS AND MAIN TH BACK-DRAFT I D BY LIGHT SWITC D BY LIGHT SWITC D Imensio OUNIT Le Unit Weig OUNIT Weig Not in providime data 1/2 S/4 ay C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2	0.5 979 UAL. TENANCE CL DAMPER. H WITH ADJUS TU 1 Tu	VOLTS 115 EARANCES F STABLE TIME ht (lb.) *** 6' 2. 3' 10. 3' 5. ht: approximate dimensions purposes. For exact to appropriate product D 98 lb 2 lb thods.	1 PER MANUFAC ER DELAY-OFF 09/29/2021 09:07AM	0.26 1/3	NATT RES	STROOM/ ANITOR		
EF-01 REMARK: D PROVID 2 INSTALL 3 EXHAUS 4 EXHAUS 4 EXHAUS 4 EXHAUS 4 EXHAUS 5 Volts-F Heatin Duct C Unit Para Unit M Unit Si Volts-F Heatin Duct C Ultra L Two S Lines an Gas Li Conde Return No opt NOTE	PANASON FV-11VC E EQUIPMENT AS EXHAUST FAN TC TAN SHALL BE E TFAN SHALL BE C TFAN SHALL BE C JHP - Nogale HS BY: Bruno Hoang JHP - Nogale HS BY: Bruno Hoang Ameters odel: 48GC 20 Phase-Hertz: 7 Phase-Hertz: 7 g Type: 48GC 20 Colling Models d Filters ne Size: 7 nsate Drain Line Size: 7 Air Filter Type: 7 Air Filter Size: 7	NIC/ 23 SCHEDULED MAINTAIN A EQUIPPED WI CONTROLLED Un CGM06A3A5-0A0 06 (5 Tor 208-3- G 06 (5 Tor 208-3- G 00 (5 Tor 208-3- 16 x 16 2 00 (5 Tor 16 x	MIN MAX N/A 110 OR APPROVE EQ CCESS AND MAIN TH BACK-DRAFT I D BY LIGHT SWITC D BY LIGHT SWITC D Imension O Unit Le Unit Weig OUNIT Weig Not in providime data 1/2 3/4 ay A0 Unit Le Unit Weig OUNIT W	0.5 979 UAL. TENANCE CL DAMPER. H WITH ADJUS TU 1 Tu	VOLTS 115 EARANCES F STABLE TIME ht (lb.) *** 6' 2. 3' 10. 3' 5. ht: approximate dimensions purposes. For exact to appropriate product D 98 lb 2 lb thods.	1 PER MANUFAC R DELAY-OFF 09/29/2021 09:07AM 375" 625" 375" 635 Ib oes are	0.26 1/3	NATT RES	STROOM/ ANITOR		
EF-01 REMARK: D PROVID 2 INSTALL 3 EXHAUS 4 EXHAUS 4 EXHAUS 4 EXHAUS 4 EXHAUS 5 Volts-F Heatin Duct C Unit Para Unit M Unit Si Volts-F Heatin Duct C Ultra L Two S Lines an Gas Li Conde Return No opt NOTE	PANASON FV-11VC E EQUIPMENT AS EXHAUST FAN TC TAN SHALL BE E TFAN SHALL BE C JHP - Nogale HS BY FAN SHALL BE C JHP - Nogale HS BY Bruno Hoang Ameters odel: 48GC 20: 20 Phase-Hertz: 9 Phase-Hertz: 9 Phase-Hertz: 9 Phase-Hertz: 9 ST FAN SHALL BE C Alter S Mage Cooling Models d Filters ne Size: 10 nsate Drain Line Size: 48GC Air Filter Type: 48GC Air Filter Size: 10 Air Filter Size:	NIC/ 23 SCHEDULED MAINTAIN A EQUIPPED WI CONTROLLED Un CGM06A3A5-0A0 06 (5 Tor 208-3- G 06 (5 Tor 208-3- G 00 (5 Tor 208-3- 16 x 16 2 00 (5 Tor 16 x	MIN MAX N/A 110 OR APPROVE EQ CCESS AND MAIN TH BACK-DRAFT I D BY LIGHT SWITC D BY LIGHT SWITC D Imensio OUNIT Le Unit Weig OUNIT Weig Not in providime data 1/2 S/4 ay C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2	0.5 979 UAL. TENANCE CL DAMPER. H WITH ADJUS TU 1 Tu	VOLTS 115 EARANCES F STABLE TIME ht (lb.) *** 6' 2. 3' 10. 3' 5. ht: approximate dimensions purposes. For exact to appropriate product D 98 lb 2 lb thods.	1 PER MANUFAC ER DELAY-OFF 09/29/2021 09:07AM 375" 635 Ib oes are	0.26 1/3	NATT RES	STROOM/ ANITOR		
EF-01 REMARK: D PROVID 2 INSTALL 3 EXHAUS 4 EXHAUS 4 EXHAUS 4 EXHAUS 4 EXHAUS 5 Volts-F Heatin Duct C Unit Para Unit M Unit Si Volts-F Heatin Duct C Ultra L Two S Lines an Gas Li Conde Return No opt NOTE	PANASON FV-11VC E EQUIPMENT AS EXHAUST FAN TC TAN SHALL BE E TFAN SHALL BE C JHP - Nogale HS BY FAN SHALL BE C JHP - Nogale HS BY Bruno Hoang Ameters odel: 48GC 20: 20 Phase-Hertz: 9 Phase-Hertz: 9 Phase-Hertz: 9 Phase-Hertz: 9 ST FAN SHALL BE C Alter S Mage Cooling Models d Filters ne Size: 10 nsate Drain Line Size: 48GC Air Filter Type: 48GC Air Filter Size: 10 Air Filter Size:	NIC/ 23 SCHEDULED MAINTAIN A EQUIPPED WI CONTROLLED Un CGM06A3A5-0A0 06 (5 Tor 208-3- G 06 (5 Tor 208-3- G 00 (5 Tor 208-3- 16 x 16 2 00 (5 Tor 16 x	MIN MAX N/A 110 OR APPROVE EQ CCESS AND MAIN TH BACK-DRAFT I D BY LIGHT SWITC D BY LIGHT SWITC D Imensio OUNIT Le Unit Weig OUNIT Weig Not in providime data 1/2 S/4 ay C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2	0.5 979 UAL. TENANCE CL DAMPER. H WITH ADJUS TU 1 Tu	VOLTS 115 EARANCES F STABLE TIME ht (lb.) *** 6' 2. 3' 10. 3' 5. ht: approximate dimensions purposes. For exact to appropriate product D 98 lb 2 lb thods.	1 PER MANUFAC ER DELAY-OFF 09/29/2021 09:07AM 375" 635 Ib oes are	0.26 1/3	NATT RES	STROOM/ ANITOR		
EF-01 REMARK: D PROVID 2 INSTALL 3 EXHAUS 4 EXHAUS 4 EXHAUS 4 EXHAUS 4 EXHAUS 5 Volts-F Heatin Duct C Unit Para Unit M Unit Si Volts-F Heatin Duct C Ultra L Two S Lines an Gas Li Conde Return No opt NOTE	PANASON FV-11VC E EQUIPMENT AS EXHAUST FAN TC TAN SHALL BE E TFAN SHALL BE C JHP - Nogale HS BY FAN SHALL BE C JHP - Nogale HS BY Bruno Hoang Ameters odel: 48GC 20: 20 Phase-Hertz: 9 Phase-Hertz: 9 Phase-Hertz: 9 Phase-Hertz: 9 ST FAN SHALL BE C Alter S Mage Cooling Models d Filters ne Size: 10 nsate Drain Line Size: 48GC Air Filter Type: 48GC Air Filter Size: 10 Air Filter Size:	NIC/ 23 SCHEDULED MAINTAIN A EQUIPPED WI CONTROLLED Un CGM06A3A5-0A0 06 (5 Tor 208-3- G 06 (5 Tor 208-3- G 00 (5 Tor 208-3- 16 x 16 2 00 (5 Tor 16 x	MIN MAX N/A 110 OR APPROVE EQ CCESS AND MAIN TH BACK-DRAFT I D BY LIGHT SWITC D BY LIGHT SWITC D Imensio OUNIT Le Unit Weig OUNIT Weig Not in providime data 1/2 S/4 ay C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2	0.5 979 UAL. TENANCE CL DAMPER. H WITH ADJUS TU 1 Tu	VOLTS 115 EARANCES F STABLE TIME ht (lb.) *** 6' 2. 3' 10. 3' 5. ht: approximate dimensions purposes. For exact to appropriate product D 98 lb 2 lb thods.	1 PER MANUFAC ER DELAY-OFF 09/29/2021 09:07AM 375" 635 Ib oes are	0.26 1/3	NATT RES	STROOM/ ANITOR		
EF-01 REMARK: D PROVID 2 INSTALL 3 EXHAUS 4 EXHAUS 4 EXHAUS 4 EXHAUS 4 EXHAUS 5 Volts-F Heatin Duct C Unit Para Unit M Unit Si Volts-F Heatin Duct C Ultra L Two S Lines an Gas Li Conde Return No opt NOTE	PANASON FV-11VC E EQUIPMENT AS EXHAUST FAN TC TAN SHALL BE E TFAN SHALL BE C JHP - Nogale HS BY FAN SHALL BE C JHP - Nogale HS BY Bruno Hoang Ameters odel: 48GC 20: 20 Phase-Hertz: 9 Phase-Hertz: 9 Phase-Hertz: 9 Phase-Hertz: 9 ST FAN SHALL BE C Alter S Mage Cooling Models d Filters ne Size: 10 nsate Drain Line Size: 48GC Air Filter Type: 48GC Air Filter Size: 10 Air Filter Size:	NIC/ 23 SCHEDULED MAINTAIN A EQUIPPED WI CONTROLLED Un CGM06A3A5-0A0 06 (5 Tor 208-3- G 06 (5 Tor 208-3- G 00 (5 Tor 208-3- 16 x 16 2 00 (5 Tor 16 x	MIN MAX N/A 110 OR APPROVE EQ CCESS AND MAIN TH BACK-DRAFT I D BY LIGHT SWITC D BY LIGHT SWITC D Imensio OUNIT Le Unit Weig OUNIT Weig Not in providime data 1/2 S/4 ay C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2	0.5 979 UAL. TENANCE CL DAMPER. H WITH ADJUS TU 1 Tu	VOLTS 115 EARANCES F STABLE TIME ht (lb.) *** 6' 2. 3' 10. 3' 5. ht: approximate dimensions purposes. For exact to appropriate product D 98 lb 2 lb thods.	1 PER MANUFAC ER DELAY-OFF 09/29/2021 09:07AM 375" 635 Ib oes are	0.26 1/3	NATT RES	STROOM/ ANITOR		
EF-01 REMARK: D PROVID D INSTALL EXHAUS EXHAUS EXHAUS Project: Prepared Unit Para Unit Para Unit Si Volts-F Heatin Duct C Ultra L Two S Lines an Gas Li Conde Return Return Return Return Condering	PANASON FV-11VC E EQUIPMENT AS EXHAUST FAN TC TAN SHALL BE E TFAN SHALL BE C JHP - Nogale HS BY FAN SHALL BE C JHP - Nogale HS BY Bruno Hoang Ameters odel: 48GC 20: 20 Phase-Hertz: 9 Phase-Hertz: 9 Phase-Hertz: 9 Phase-Hertz: 9 ST FAN SHALL BE C Alter S Mage Cooling Models d Filters ne Size: 10 nsate Drain Line Size: 48GC Air Filter Type: 48GC Air Filter Size: 10 Air Filter Size:	NIC/ 23 SCHEDULED MAINTAIN A EQUIPPED WI CONTROLLED Un CGM06A3A5-0A0 06 (5 Tor 208-3- G 06 (5 Tor 208-3- G 00 (5 Tor 208-3- 16 x 16 2 00 (5 Tor 16 x	MIN MAX N/A 110 OR APPROVE EQ CCESS AND MAIN TH BACK-DRAFT I D BY LIGHT SWITC D BY LIGHT SWITC D Imensio OUNIT Le Unit Weig OUNIT Weig Not in providime data 1/2 S/4 ay C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2	0.5 979 UAL. TENANCE CL DAMPER. H WITH ADJUS TU 1 Tu	VOLTS 115 EARANCES F STABLE TIME ht (lb.) *** 6' 2. 3' 10. 3' 5. ht: approximate dimensions purposes. For exact to appropriate product D 98 lb 2 lb thods.	1 PER MANUFAC ER DELAY-OFF 09/29/2021 09:07AM 375" 635 Ib oes are		NATT RES	STROOM/ ANITOR		

MECHANICAL EQUIPMENT SCHEDULE

		PACKAG	ED ROOFT(OP AC UN	IT SCHEDU	JLE												
G PERF	ORMANCE				SU	PPLY FAN DA	TA				ELEC	TRICAL D	ATA			FILTER DATA		
COP HSPF) FUE(%)	MIN. HEATING STAGE	HEATING STAGE (%)	OPERATING AIRFLOW (CFM)	MIN. % OF OSA	E.S.P. (IN W.G.)	MOTOR RATED HP	MOTOR BHP	FAN SPEED (RPM)	FAN DRIVE TYPE	VOLT	PHASE /HZ	MCA	DISC. FLA	MOCP	ELECTRIC HEATER (KW)	(QUANTITY/ SIZE)	TOTAL WEIGHT	REMARKS
(81)	1	N/A	1,990	655	1.0	EXISTING	1.20	1,075	DIRECT	460	3/60	13	EXISTING	15	N/A	EXISTING	617	78910
81%	2		2,000	700	1.0	2.4	1.37	2,337	DIRECT	208	3/60	29	28	40	N/A	4/ 16x16X2	782*	123456

PAN.

© PROVIDE (N) 24/7 PROGRAMMABLE THERMOSTAT AND INSTALL WITH VENTILATED CLEAR PLASTIC LOCK BOX. 7 RE-BALANCE SUPPLY FAN AND MINIMUM OUTSIDE AIR DAMPER POSITION FOR NEW OUTSIDE AIR FLOW RATE PER PLAN. OUTSIDE AIR DAMPER SHALL BE TURNED TO MINIMUM POSITION WHEN

UNIT IS CALLED FOR HEATING. PROVIDE COMPLETELY HEATING AND COOLING FUNCTIONAL TESTS PRIOR TO CONSTRUCTION. FUNCTIONAL TESTS SHALL ALSO INCLUDE HEATING AND COOLING PERFORMANCE TESTS, CONTROL OF DAMPER, ECONOMIZER, CONDENSATE AND DRAIN PAN DRAINAGE, AND DUCT SMOKE DETECTOR AT DISCHARGE. REPORT DEFICIENCY OF UNIT AND ASSOCIATED EQUIPMENT TO ENGINEER AND/OR ARCHITECT.

EMPERATURE CONTROL.

9 RELOCATED (E) 24/7 PROGRAMMABLE THERMOSTAT AS SHOWN ON PLAN. SET HEATING AND COOLING SETPOINTS WITH MINIMUM 6°F (ADJUSTABLE) DEADBAND. ① FAN OF EXISTING UNIT SHALL BE SHUT-DOWN BY FACP UPON DETECTION OF FIRE OR SMOKE BY AREA SMOKE DETECTOR SERVING THE SAME PROJECT AREA. SEE ELECTRICAL PLAN FOR DETAILS. * WEIGHT INCLUDES ALL SELECTED FACTORY OPTION AND ROOF CURB.

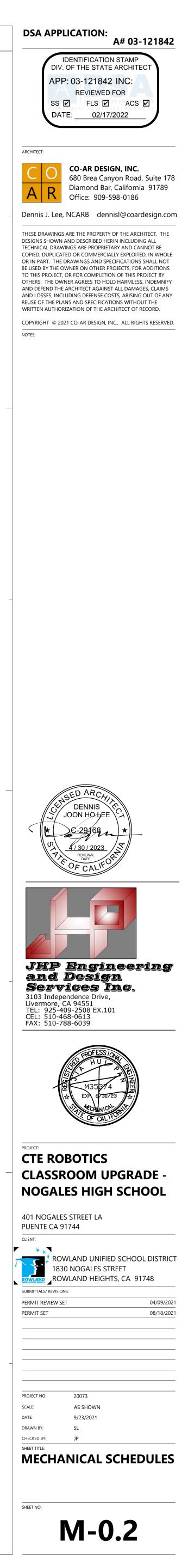
						MIN. OSA VENTILATI	ON CALCULATIONS*				
	REMARK	OCCUPANCY CLASSIFICATIONS	OCCUPANT DENSITY (PPL/1000 FT ²)	AREA (A _Z -FT ²)	NO. OF OCC. (PZ)	PPL OSA RATE (R _P -CFM/PPL)	AREA OSA RATE (R _A -CFM/FT ²)	MIN. REQ'D OSA (V _{bZ} -CFM)	DISTRIBUTION EFFECTIVENESS (E _Z)	FINAL REQ'D OSA RATE (E _{OZ} -CFM)	PROVIDE OSA (CFM)
12		CLASSROOM	35	2,850	99.75	10	0.12	1,340	1.0	1,340	1,340
12											
12		OFFICE	5	95	1	5	0.06	10.7	1.0	10.7	15
12		* MIN. OSA VENTILATION IS CAL A. SECTION 403.2.1 : $V_{bZ} = F$		019 CMC.							
1		B. SECTION 403.2.3 : $V_{OZ} = V_{C}$. TABLE 402.1 AND TABLE 4	/ _{bZ} /E _Z								

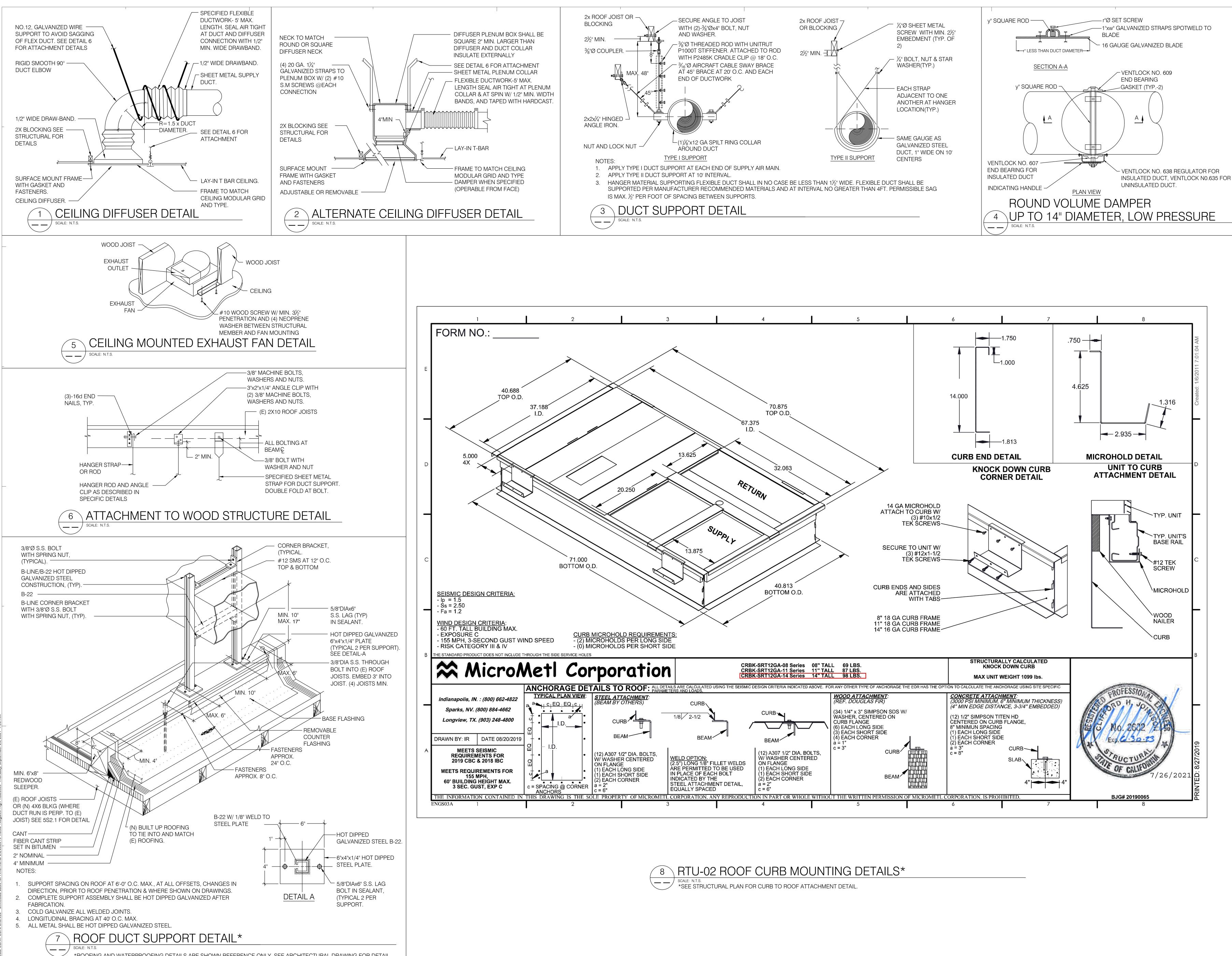
FAN ISCHARGE CONFIG.	DIRECTION OF FAN ROTATION	WEIGHT (LBS)	REMARK
N/A	N/A	14	1234

			DIFFUSER A	ND GRILLE SCH	HEDULE	
TAG	LOCATION	TYPE TYPE	BRAND / MODEL	MODULE SIZE	NECK SIZE	REMARK
A	SEE PLAN	CEILING SUPPLY DIFFUSER	TITUS / PCS	24X24	SEE PLAN	1234
В	SEE PLAN	CEILING RETURN REGISTER	TITUS / PAR	24X24	SEE PLAN	1234
С	SEE PLAN	SIDEWALL /CEILING SUPPLY GRILLE	TITUS / 300FL	SEE PLAN	SEE PLAN	1234
D	SEE PLAN	SIDEWALL RETURN GRILLE	TITUS / 350FL	SEE PLAN	SEE PLAN	134
REMARKS:	·	·		·		

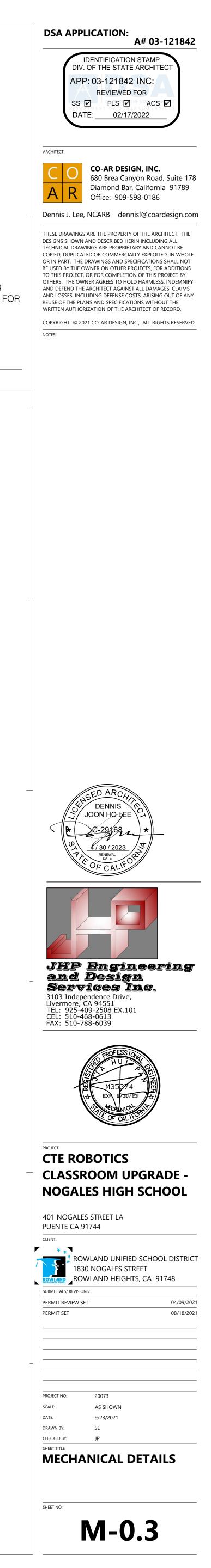
① ORDER DIFFUSERS / GRILLES WITH BORDER TYPE FOR SURFACE MOUNT.

2 PROVIDE AND FIELD INSTALL MATCH NECK SIZE TAB BOX ON TOP OF DIFFUSER WHERE CEILING SPACE IS LIMITED FOR DUCT CONNECTION. ③ PROVIDE FACTORY OPPOSED-BLADES DAMPER FOR BALANCING WHERE ACCESS OF MANUAL DAMPER CANNOT BE OBTAINED. ④ ORDER DIFFUSER WITH COLOR TO MATCH CEILING FINISHES. CONFIRM WITH ARCHITECT PRIOR TO ORDER.





*ROOFING AND WATERPROOFING DETAILS ARE SHOWN REFERENCE ONLY. SEE ARCHITECTURAL DRAWING FOR DETAIL

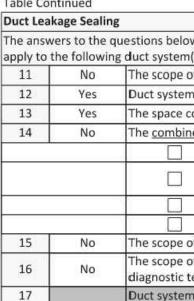


CERTIFICA	(Created 09/20)	LIANCE		IFORNIA ENERGY COM	NRCC-MCH-E	CERTIFICATE	cal Systems eated 09/2020) OF COMPLIANCE							CALIFORNIA EN	٨	NRCC-MC
escriptiv	e path outlin	o demonstrate compliance for mechanical systems that are within the scope of the permi ed in <u>§140.4</u> , or <u>§141.0(b)2</u> for alterations.	2-1 	ting compliance u		and the second	nov navode survey processing the state	DGRAM - NOGALES HIGH SCH EET LA PUENTE CA 91744	IOOL			ort Page: e Prepared:				Page 2 (2021-0
ject Ad	dress: 401 N	OGALES STREET LA PUENTE CA 91744 Date I	t Page: Prepared:		Page 1 of 11 2021-04-06		ONAL CONDITIONS	ble comments because of sel	ections made or	lata entered	n tables throug	hout the form.				
Proje	AL INFORM	city) LA PUENTE 04 Total Conditioned	and states of the states of th	3,153	2	Table H indic	ates a Fan Power Syster	m Index that exceeds the ma	ximum allowed (er §140.4(c).	Please revise to	demonstrate				
Occu		9 05 Total Uncondition Within Project: 06 # of Stories (Habit	able Above Grade)	0			ade in Table O have bee	en changed by the permit ap	olicant. See Table	E. Additiona	Remarks for pe	ermit applicant	's explanati	ion.		
	Motel Guest	Retail (M) Non-refrigerated W Rooms (R-1) ✓ School (E) Healthcare Facility (the permit applicant to the <i>i</i>	Authority Having	Jurisdiction.						
	ise Residenti ES: Climate a	al (R-2/R-3) Relocatable Class Bldg (E) Other (Write In): cone can be determined on the California Energy Commission's website at <u>http://www.en</u>	ergy.ca.gov/maps/renewable/bu	uilding_climate_z	ones.html											
	CT SCOPE	de any mechanical systems that are within the scope of the permit application and are de	monstratina compliance usina ti	he prescriptive pa	ath outlined in	Table Instruc		lowing equipment schedules		ice with man	atory requirem	ents found in §	110.1 and	<u>§110.2(a)</u> and pre.	escriptive re	quirem
		My project consists of (check all that apply)				Dry System E	quipment Sizing (inclu	140.4(k) or <u>§141.0(b)2</u> for alt des air conditioners, conder		10 1.5 G		7.				1 32
	A	01 02 Nir System(s) Wet System Components	Dry Syster	03 m Components		01	02	03		04				08 09 inical Schedule (kB	Btu/h) <u>§140</u>	
La protocita	g Air System g Air System	Water Economizer Pumps	Air Economizer	t			quipment Category per	Equipment Type		Smallest Availab	iize	Heating Output	Supp	Cooling Output ^{2,3} Sensible	^a Load Ca Total	To
Mecha	nical Control	hanical Controls Hydronic System Piping s (existing to remain, altered or Cooling Towers	Fan Systems Ductwork (existing to re	emain, altered or	new)	Item Tag	<u>Tables 110.2</u>	<u>Tables 110.2</u> & <u>T</u>	i <u>tle 20</u>	<u>§140.4</u>		n (kBtu/h)	Output	er Design (kBtu/h) Rated	d Heating h) Load (kBtu/h	
new)		Chillers Boilers	Ventilation Conal Systems/ Termina	al Boxes		DTU 02		At	· - t 1					40.05		(KBI
Costs AnnuAllis	IANCE RES	JLTS y cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions"	refer to Table D. for avidance		2	RTU-02	Jnitary heat pumps	Air cooled, package (3	s phase)	Yes	58	55.9	32	49.05 50	60	62.
01 System		02 03 04 05 06 5 5 5 5 6	07 08	3	09		S: Equipment shall be ti 5140.4(a). Healthcare f	he smallest size, within the a facilities are excented	vailable options (of the desired	equipment line,	necessary to n	neet the de	esign heating and c	cooling load	ds of the
ummai §110.1	AND	Pumps AND Economizers AND S110.2 AND Ventilation AND Controls	Distribution Cooli	ers		² It is commo ³ If equipmen	n practice to show rate t is heating only, leave	d output capacity on the equ cooling output and load blan	k. If equipment	s cooling only				et tables.		
<u>§110.2</u> §140.4		<u>§140.4(e)</u> <u>§140.4(f)</u> <u>§140.4(f)</u>	<u>§140.4(l)</u> <u>§110.2</u>	<u>Z(e)Z</u>	ance Results	⁴ Authority H Table Contin		ask for load calculations used	for compliance	per <u>§140.4(b)</u>						
ee Table Yes	F) (See	Table G) (See Table H) (See Table I) (See Table J) (See Table K) AND Yes AND Yes AND Yes AND	(See Table L) (See Table L) AND Yes AND	СО	MPLIES											
			Compliance (See Table Q for De		MPLIES	-										
Building	Energy Efficier	ncy Standards - 2019 Nonresidential Compliance: <u>http://www.energy.ca.gov/title24/2019standards</u>	Z		September 2020	CA Building En	ergy Efficiency Standards	- 2019 Nonresidential Complian	ce: <u>http://www.er</u>	ergy.ca.gov/tit	e24/2019standai	<u>rds</u>			Sep	otember 2
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oject Ad	dress: 401 N	OGALES STREET LA PUENTE CA 91744 Date I	t Page: Prepared:		Page 4 of 11 2021-04-06	Project Addre	ess: 401 NOGALES STR	EET LA PUENTE CA 91744	1001			ort Page: e Prepared:				Page 5 c 2021-0
ble Inst		nplete the following Table to demonstrate compliance with mandatory controls in §110.2	and <u>§120.2</u> and prescriptive com	trols in <u>§140.4(f)</u> (and (<u>n)</u> or	Table Contin 08	09	10 V.0355	11	12 13	and the second se	15		16	5	
quireme 01	nts in <u>§141.0</u>	(b)2E for altered space conditioning systems. 02 03 04 05 06	07	08	09	Space Name Item Tag	or	echanical Ventilation Require Conditioned Cy Type ⁴ Floor		# of Requ	red Required	Provided p		DCV or Occupant 5 §120.1(d)3, §120.1		
iystem I	ame Syst	em Zoning Conditioned Thermostats Shut-Off Isolation Zoning Being Served State	Demand Response		Window Interlocks per		Occupant	Area (ft ²)	/ toilets	eople ⁵ CFI		Design CFN	M			
		(ft ²) §120.2(a) or §141.0(b)2E §120.2(e) §120.2(g)		<u>§140.4(f)</u> NA: Single	<u>§140.4(n)</u> NA: Auto-	RTU-02	Office sp	pace 95		1 15		15	DCV Occ	NA: Not requir		
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or	Equipment Category per <u>Tables 110.2</u>	Equipment Type per Tables 110.2 & Title 20	Smallest Size Available ¹ <u>§140.4(a)</u>	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
2	Unitary heat pumps	Air cooled, package (3 phase)	Yes	58	55.9	32	49.05	50	60	62.31

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ddress:	: 401 N	OGALES STREET LA PUENTE CA 91744	Date Prepared:		2021-04-06
	۲	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units			
	0	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Termin Acceptance	al Units		
	۲	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance NOTE: This form does not automatically move to "Yes". If Distributed Energy AC Systems are included in the scope, permit applicant should move this			
	۲	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance NOTE: This form does not automatically move to "Yes". If Chilled Water S Coil Internal Melt, Ice-on-Coil External Melt, Ice Harvester, Brine, Ice-Slur Salt, Clathrate Hydrate Slurry (CHS), Cryogenic or Encapulated (Ice Ball) S included in the scope, permit applicant should move this form to "Yes".	ry, Eutectic		
	۲	NRCA-MCH-16-A Supply Air Temperature Reset Controls			
	۲	NRCA-MCH-17-A Condenser Water Temperature Reset Controls			
	۲	NRCA-MCH-18 Energy Management Control Systems			
	۲	NRCA-MCH-19 Occupancy Sensor Controls			
	۲	NRCA-MCH-20 Multi-Family Ventilation			
	۲	NRCA-MCH-21 Multi-Family Envelope Leakage			

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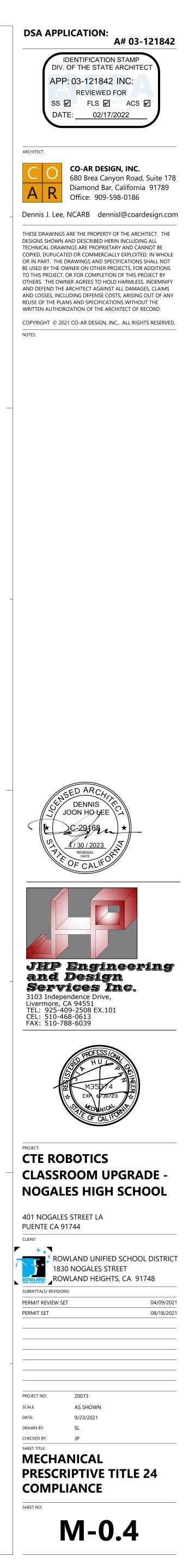
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YES	NO	
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CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

September 2020

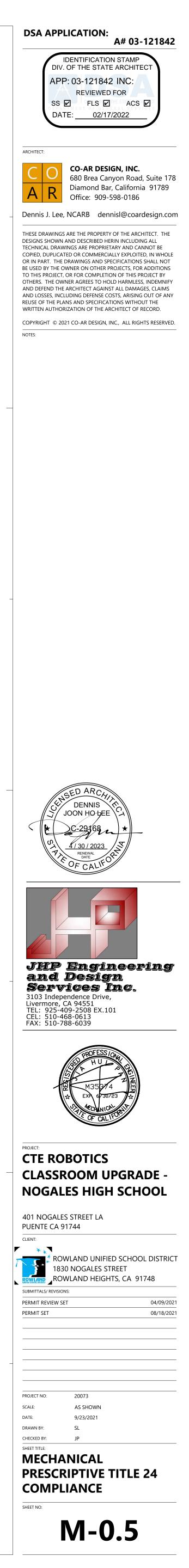


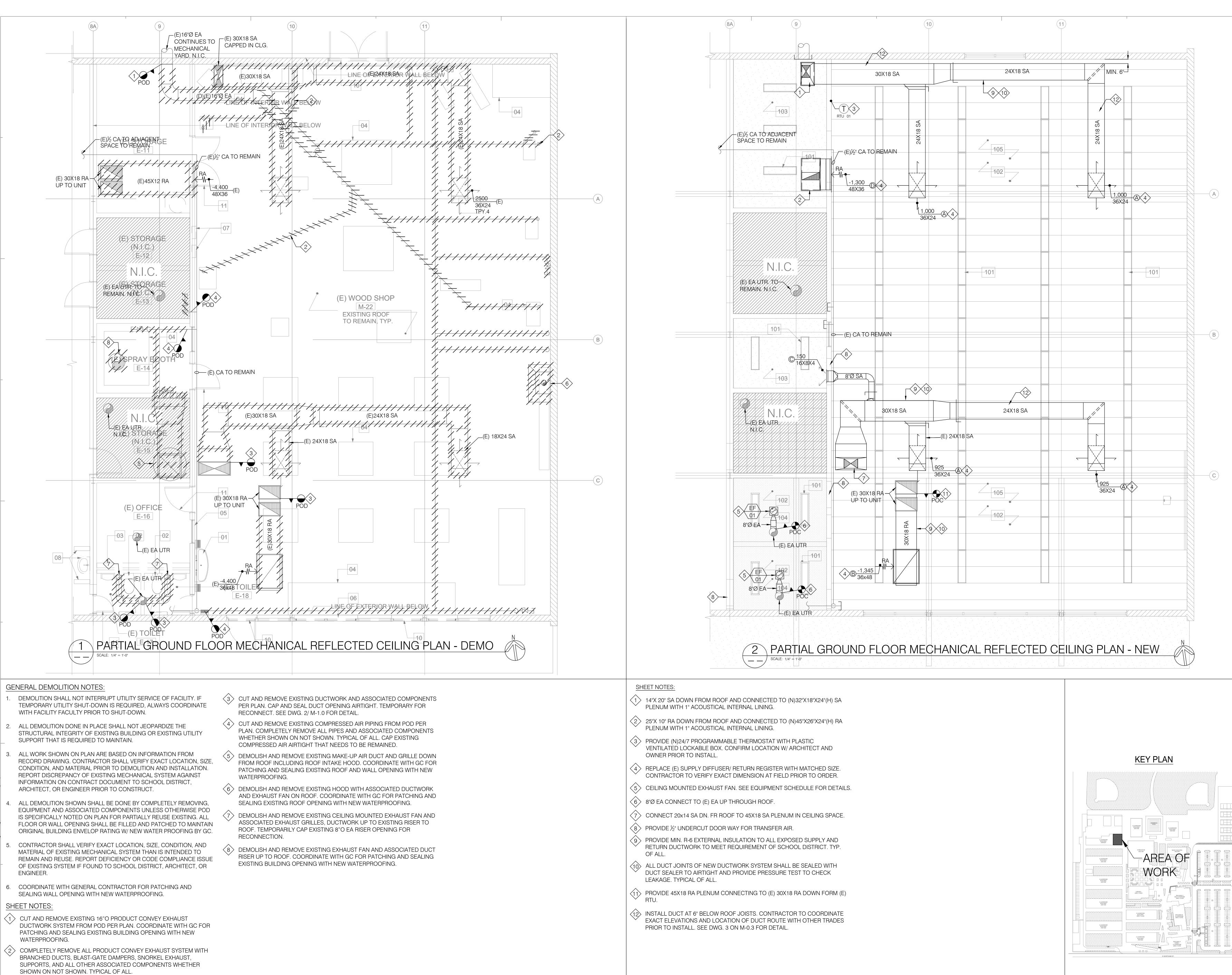
NRCC-MCH-E (Created 09/2020) CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COM	NRCC-MCH-E
Project Name: CTE ROBOTICS PROGRAM - NOGALES HIGH SCH	001	Report Page:	Page 10 of 11
Project Address: 401 NOGALES STREET LA PUENTE CA 91744	001	Date Prepared:	2021-04-06
Q. MANDATORY MEASURES DOCUMENTATION LOCATION			
the plan sheet or construction document location as "N/A", any a		construction documentation. For any mandatory measures that do not on the construction documentation. For any m	appiy, mark
		02	1
01		Plan sheet or construction document location	
Compliance with Mandatory Measures documented through			
MCH Mandatory Measures Note Block:	No		
03		04	
Mandatory Measure		Plan sheet or construction document location	
Heating Equipment Efficiency per <u>§110.1</u>		M-0.2	
Cooling Equipment Efficiency per <u>§110.1</u>		M-0.2	
Furnace Standby Loss Control per <u>§110.2(d)</u>		N/A	
Duct Insulation per <u>§120.4</u>		M-0.2	
Heating Hot Water Equipment Efficiency per <u>§110.1</u>		N/A	
Cooling Chilled and Condenser Water Equipment Efficiency per §	110.1	N/A	
Open and Closed Circuit Cooling Towers conductivity of flow-base	ed controls per <u>§110.2(e)1</u>	N/A	
Open and Closed Circuit Cooling Towers Flow Meter with analog	output per <u>§110.2(e)3</u>	N/A	-
Open and Closed Circuit Cooling Towers Overflow Alarm per §110).2(e)4	N/A	
Open and Closed Circuit Cooling Towers Efficient Drift Eliminators	i per <u>§110.2(e)5</u>	N/A	
Pipe Insulation per §120.3(b)		N/A	
Combustion air shutoff, combustion air fan controls and stack de: boilers per <u>§120.9</u>	sign and controls for	N/A	
Heat Pump with Supplementary Electric Resistance Heater Contro	ols per <u>§110.2(b)</u>	N/A	
The air duct and plenum system is designed per <u>§120.4(a)-(f)</u>		M-0.1	
Kitchen range hoods shall be rated for sound in accordance with !	Section 7.2 of ASHRAE	N/A	

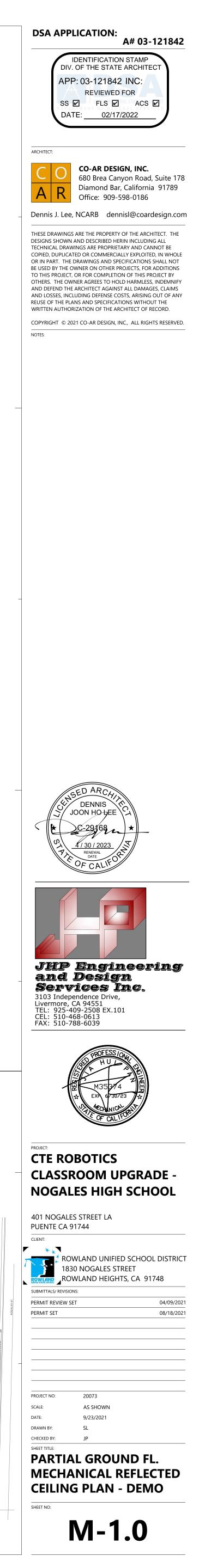
September 2020

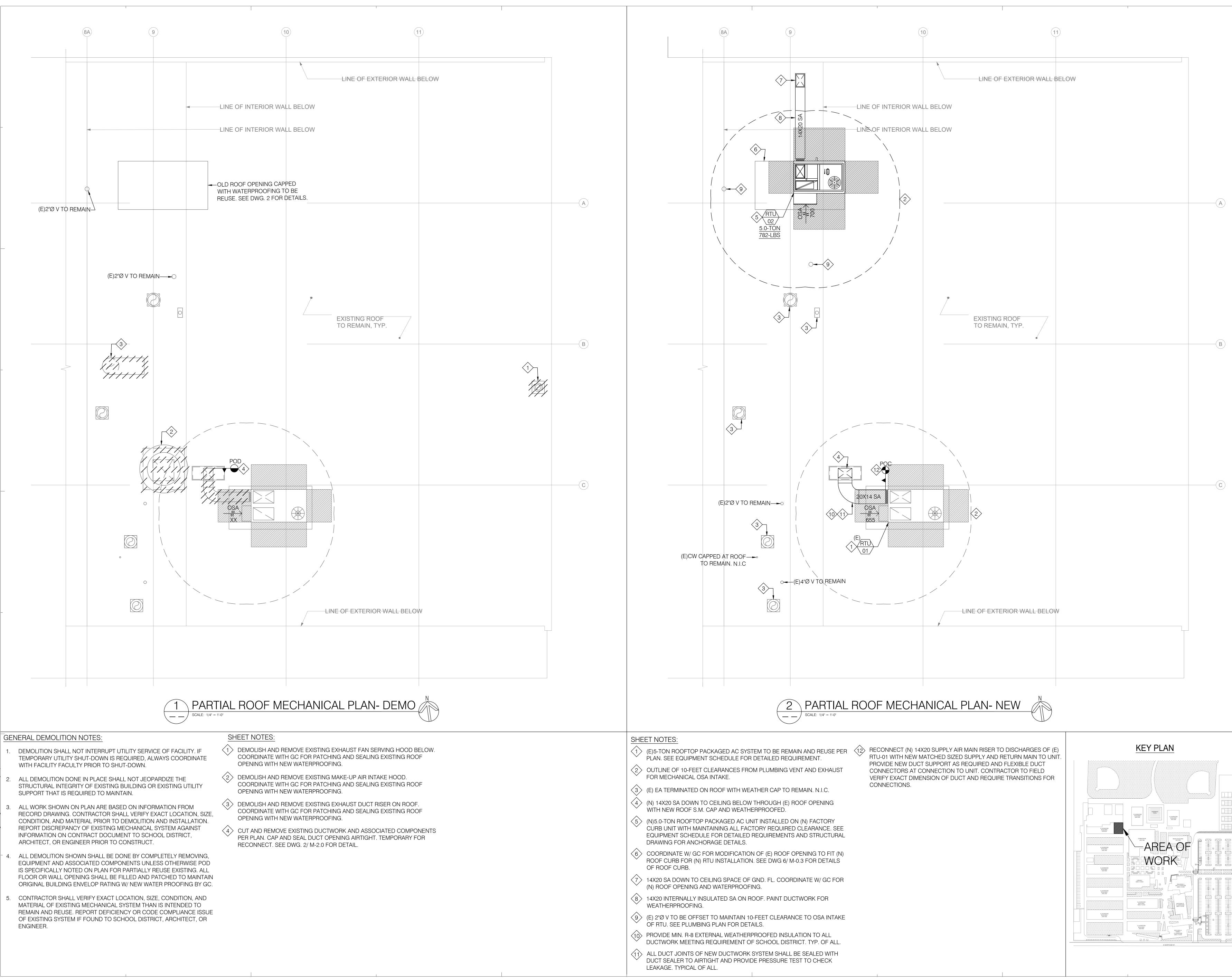
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

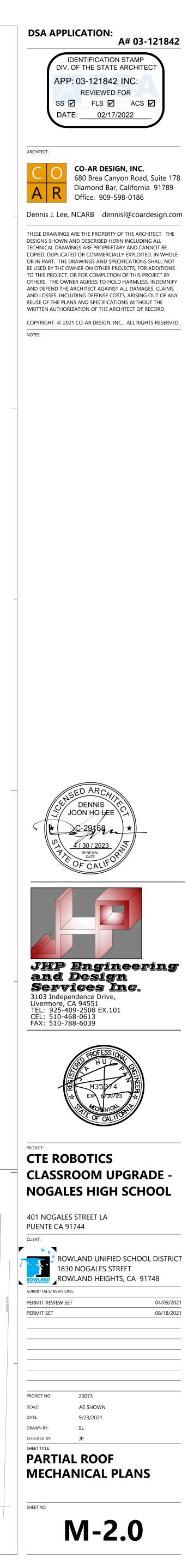
Project Address: 401 NOGALES DOCUMENTATION AUTHOR' 1. I certify that this Certificate of Documentation Author Name:	PROGRAM - NOGALES HIGH SCHOOL STREET LA PUENTE CA 91744 S DECLARATION STATEMENT f Compliance documentation is accurate and co	Report Page: Date Prepared:		Page 11 of 1
DOCUMENTATION AUTHOR' 1. I certify that this Certificate of Documentation Author Name:	S DECLARATION STATEMENT	Date Prepared:		
 I certify that this Certificate of Documentation Author Name: 				2021-04-0
Documentation Author Name:	Compliance documentation is accurate and co			?
		mplete.		
ompany: IHP	Jia H. Pan	Documentation Author Signature:		
July July	Engineering and Design Services, Inc.	Signature Date:	2021-04-06	
ddress:	3103 Independence Drive	CEA/ HERS Certification Identification	n (if applicable):	M35374
City/State/Zip:	Livermore CA 94551	Phone:	925-409-2508	
Certificate of Compliance cor The building design features compliance documents, work I will ensure that a complete	igner) formance specifications, materials, component oform to the requirements of Title 24, Part 1 ar or system design features identified on this Ce (sheets, calculations, plans and specifications s d signed copy of this Certificate of Compliance or all applicable inspections. I understand that	d Part 6 of the California Code of Regulation rtificate of Compliance are consistent with the ubmitted to the enforcement agency for app shall be made available with the building per	s. le information provided proval with this building rmit(s) issued for the bu	l on other applicable permit application. iilding, and made available
Certificate of Compliance cor The building design features compliance documents, work I will ensure that a complete to the enforcement agency for	ormance specifications, materials, component form to the requirements of Title 24, Part 1 ar or system design features identified on this Ce (sheets, calculations, plans and specifications s d signed copy of this Certificate of Compliance	d Part 6 of the California Code of Regulation rtificate of Compliance are consistent with the ubmitted to the enforcement agency for app shall be made available with the building per	s. le information provided proval with this building rmit(s) issued for the bu	l on other applicable permit application. iilding, and made available
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Certificate of Compliance cor The building design features compliance documents, work I will ensure that a completed to the enforcement agency for documentation the builder p Responsible Designer Name:	formance specifications, materials, component of the requirements of Title 24, Part 1 ar or system design features identified on this Ce (sheets, calculations, plans and specifications of d signed copy of this Certificate of Compliance or all applicable inspections. I understand that rovides to the building owner at occupancy. Jia H. Pan	Ad Part 6 of the California Code of Regulation rtificate of Compliance are consistent with the ubmitted to the enforcement agency for app shall be made available with the building per a completed signed copy of this Certificate of Responsible Designer Signature:	s. The information provided proval with this building rmit(s) issued for the building f Compliance is require	l on other applicable permit application. iilding, and made available











	GENERAL NOTES		Ι
1.	CONTRACTOR SHALL VISIT JOB SITE TO VERIFY FIELD CONDITION AGAINST CONSTRUCTION PLAN AND SPECIFICATION, IDENTIFY POSSIBLE CONFLICT AND DISCREPANCY BETWEEN PLAN AND SITE CONDITION, AND BRING TO OWNER'S AND ENGINEER'S ATTENTION PRIOR TO ENTER CONTRACT.	1.	PROVIDE ISOLATED COUPLI AND BRASS PIPING.
2.	SUBMISSION OF A CONTRACT SHALL BE CONSTRUCTED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTION OF THE EXISTING BUILDING, EQUIPMENT, SYSTEMS, SITE CONSTRAINTS, ETC, WHICH MAY AFFECT THE ASSOCIATED WORK SCOPE UNDER THIS CONTRACT, AND THE ACCESS TO SUCH SPACES, HAVE ALL BEEN MADE AND THAT THE CONTRACTOR IS FULL AWARE OF WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF WORK. LATER CLAIMS SHALL NOT BE MADE FOR LABOR, EQUIPMENT, OR MATERIAL REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH EXAMINATIONS.	2.	ALL WATER PIPING SYSTEMS SHALL BE INSTALLED WITH A MEMBERS, WALL SECTIONS AREAS. ALL HANGERS, STRA COMBINED NEOPRENE AND TO ISOLATE COMPLETE PIPE OF 1/2". INSTALL ALL COMPO
3.	BY ENTERING CONTACT OF CONSTRUCTION, WHETHER IT IS SHOWN OR NOT SHOWN ON THIS PLAN, CONTRACTOR IS FULLY RESPONSIBLE TO COMPLETE WORK WITH MEETING ALL APPLICABLE CODES, LAWS, AND REGULATIONS GOVERNING ANY PORTION OF THE WORK SCOPE ON PLAN AND SPECIFICATIONS. PRIOR TO SUBMITTING A PROPOSAL, CONTRACTOR SHALL FULLY UNDERSTAND AND COVER ALL COSTS WORK SCOPE AND MATERIALS TO MEET ALL APPLICABLE CODES, LAWS, AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED BY THE CONTRACTOR.	3. 4.	INSTALL ALL CLEAN-OUTS W CHANGES IN DIRECTIONS, IN CHANGE SIZE, AND AT ALL E PLUMBING FIXTURES SHALL INSTALLATION. SELECTION OF FAUCETS AN
4.	CONTRACTOR IS TO REVIEW PLANS OF OTHER DISCIPLINES AND COORDINATE WITH THE WORK OF OTHER TRADES PRIOR TO INSTALLATION TO AVOID ANY CONFLICT. NO COST SHALL BE INCURRED ON CONSTRUCTABILITY ISSUE DUE TO LACK OF COORDINATION.	6.	INSTALL STOP VALVES ON H
5.	ALL WORK SHOWN ON PLAN ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEM AND WORK. INFORMATION ON PLAN SHALL NOT BE USED TO DETERMINE EXACT LOCATION OF INSTALLATION. WHERE INSTALLATION REQUIRES EXACT MEASUREMENTS AND COORDINATION WITH WORKS OF OTHER TRADE, CONTRACTOR SHALL PREFORM ALL REQUIRED WORK AND PROVIDE SHOP DRAWINGS FOR REVIEW	7. 8.	ALL FLOOR DRAIN MUST HA COLD WATER LINE SHALL BE TOWARD FLOOR DRAIN. MATERIALS, METHODS AND
	AND APPROVAL PRIOR TO INSTALLATION. THE CONTACTOR SHALL ALLOW IN HIS PRICE FOR WORK DONE WITH DEVIATIONS IN LOCATION AND METHOD TO AVOID OBSTRUCTIONS AND CONFLICT OF OTHER TRADES AND EXISTING UTILIZES OF BASE BUILDING.		NEW AND EXISTING SERVICE REQUIREMENTS OF ALL AGE STUBS TO BE CONNECTED WATER AND SEWER CONNE
6.	CONTRACTOR SHALL SUBMIT SPECIFICATIONS OF ALL THE MATERIALS AND EQUIPMENT TO BE USED ALONG WITH SHOP DRAWING WHERE REQUIRES IN SPECIFICATION FOR APPROVAL PRIOR TO ORDER.	9.	CAULK AIRTIGHT ALL PLUME PENETRATIONS OF CONCRE
7.	ALL NEW WORK CONNECTING TO EXISTING BASE BUILDING UTILIZES SHALL BE FULLY COORDINATED WITH REPRESENTATIVE OF OWNERSHIP TO RESULT MINIMUM INTERFERENCE TO EXISTING FACILITIES. TEMPORARY UTILITY SHUT-DOWN TO EXISTING BUILDING SERVICE SHALL BE APPROVED BY OWNERSHIP WITH WRITTEN CONSENT OF BUILDING OWNER AND SHALL INCURRED NO ADDITIONAL CHARGES. FOLLOW ALL REQUIRED CLEANING PROCEDURES AND CONNECTION REQUIREMENT PRIOR TO ESTABLISH SERVICE AFTER CONNECTION. WHERE CONTINUOUS OPERATION OF EXISTING BUILDING SERVICES ARE REQUIRED,	10.	PLANS. ROUGH-IN FOR ALL MANUFACTURER. ALL EXPO
8.	PROVIDE WORKMANSHIP AND MATERIAL FOR ISOLATION BETWEEN BUILDING AND PROJECT SPACE, RESTORE BUILDING SERVICE IMMEDIATELY WITH MAINTAINING ORIGINAL OPERATING CONDITION. CONTRACTOR SHALL STORE ALL EQUIPMENT AND MATERIAL IN A ORGANIZED AND CLEANED SPACE AT ALL	11.	KEEP ROUGH-IN CUTS WITH SOUND-RATED WALLS. DRIL LARGER THAN THE PIPE DIA
0.	TIME TO PREVENT FROM DAMAGING AND DETERIORATION PRIOR TO INSTALLATION. CONTRACTOR SHALL KEEP ALL PART OF THE CONSTRUCTION AREA AND ASSOCIATED ACCESSES CLEAN AND FREE OF DEBRIS RESULTING FROM EXECUTION OF WORK.	12.	PIPE LINES SHALL BE INSTAL SUITABLE SUPPORTS PROPE WITH PROVISION FOR EXPAN
9.	ALL LOCATION OF EXISTING UTILITIES ARE SHOWN BASED ON RECORD DRAWING OR INFORMATION PROVIDED BY SURVEYOR OR BASE BUILDING. CONTRACTOR IS RESPONSIBLE TO VERIFY EXACT LOCATION, SIZE, CONDITION, MATERIAL, AND INVERT AS APPLICABLE TO CONFIRM CONSTRUCTABILITY PRIOR TO INSTALL.	13.	HORIZONTAL LINES SHALL H A. CAST IRON PIPE - 5' CEN B. STEEL PIPE - 10' CENTE C. COOPER TUBING - 5' CE
10.	ALL EQUIPMENT INSTALLED SHALL BE PROVIDED WITH ACCESS AND CLEARANCES MEETING CODE REQUIREMENT AND REQUIREMENTS OF FACTORY INSTALLATION GUIDELINES FOR MAINTENANCE. WHERE ACCESS SHALL BE PROVIDED FOR OPERATION, INSPECTION, TESTING, BALANCING, MAINTENANCE, OR CODE COMPLIANCE, WHETHER SHOWN ON NOT SHOWN ON ARCHITECTURAL PLAN, CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR FOR PROVISION OF SUCH ACCESS.	14.	PIPING SHALL BE NEW AND PIPE. THREADS SHALL BE CU FITTING. FRICTION WRENCH CHANGES IN PIPE SIZE SHAL
11.	ANY INVASIVE CONSTRUCTION, SUCH AS CORE-DRILLING, CUTTING, BORING, OPENING, TO EXISTING BUILDING FLOOR OR WALL, STRUCTURAL OR NON-STRUCTURAL RELATED, SHALL BE SUBJECTED TO	16.	UNION CONNECTION SHALL CONNECTIONS AND AT OTH
	WRITTEN APPROVAL BY REPRESENTATIVE OR OWNERSHIP OF BASE BUILDING. WHERE REQUIRED BY OWNER, PROVIDE SHOP DRAWING WITH DETAILED MEANS AND METHODS WITH DIMENSIONAL RESULTS OF X-RAY SCANNING AS EVIDENCE TO ENSURE NO DAMAGE WILL CAUSE TO EXISTING BUILDING STRUCTURE OR UTILITY PRIOR TO PERFORM SUCH WORK. NO CONSTRUCTION SHALL BE DONE IN RESULTING OF ANY DAMAGING OR DERATING OF BUILDING STRUCTURE INTEGRITY AND UTILITY SERVICEABILITY.	17.	CUTTING OR BORING OF HC IMPOSSIBLE TO ROUTE PIPIN ACCOMPLISHED ONLY BY W ENGINEER, AND ALSO INCLU 2320A.11.10.
12.	ANY OPENING MADE TO EXISTING BUILDING SHALL BE SUPPORTED, PATCHED, AND SEALED TO MEET ALL SPECIFICATION OF ORIGINAL CONSTRUCTION. ALL PENETRATION TO RATED ASSEMBLY SHALL BE PROTECTED BY UL LISTED FIRM AND/OR SMOKE PROTECTION ASSEMBLY TO MAINTAIN ORIGINAL ASSEMBLY FIRE AND SMOKE RATING.	18.	DO NOT ALLOW THE PIPING, STRUCTURE OR OTHER PIPE STRESSING PIPE, JOINTS OF
	CONTRACTOR SHALL PROVIDE INSURANCE POLICY IN ACCORDANCE TO BUILDING OWNER'S AND PROJECT OWNER'S REQUIREMENTS INCLUDING A HOLD HARMLESS CAUSE FOR OWNER AND ENGINEER ON RECORD.	19.	PROVIDE SIOUX CHIEF WATE CHAMBER FOR EACH PLUM HANDLE THE REQUIRED FIX
14.	FOR THE USE OF EQUIPMENT OR MATERIAL THAT ARE DIFFERENT FROM SCHEDULES OR SPECIFICATIONS, CONTRACTOR IS RESPONSIBLE TO PROVIDE, INCLUDING BUT NOT LIMITED TO, SPECIFICATION, CALCULATION, ENGINEERING, COST DIFFERENCE, ETC. FOR APPROVAL OF EQUAL AND OWNER'S APPROVAL.	20.	THE DOMESTIC WATER SUP STERILIZED WITH CHLORINE PUBLICATION C-601-1954.
15.	ALL WORK DONE SHALL BE GUARANTEED FOR A PERIOD OF TWO YEARS FROM DATE OF ACCEPTANCE OF WORK.	21.	PRESSURE TEST ENTIRE HO AND INCLUDING VENTS.
16.	PRIOR TO FINAL ACCEPTANCE BY OWNER OR REPRESENTATIVE OF OWNER, CONTRACTOR IS RESPONSIBLE TO TEST, ADJUST, AND BALANCE ALL ASSOCIATED EQUIPMENT AND SYSTEM WITHIN SCOPE WITH	22.	HOT WATER PIPING TO BE IN
	PROVISIONS OF REPORTS WHERE REQUIRED IN SPECIFICATIONS TO DEMONSTRATE THAT ALL REQUIREMENTS OF PLANS AND SPECIFICATIONS ARE FULLY MET AND ALL APPLICABLE CODES, LAWS, AND		PROVIDE ACCESS PANEL FC
	REGULATIONS ARE FULLY COMPLIED.		THREADED FITTINGS: ANSI/A SOCKET-WELDING FITTINGS
			BUTT-WELDING FITTINGS: AN MATERIAL.
		27.	UNIONS: ASME/ANSI B16.39
			FLANGES AND FLANGED FIT FLANGE FACES SHALL HAVE CONTAINMENT FOR SELF-EN
-		29.	THREADED JOINTS: WHERE LENGTHS ACCORDINGLY WI APPLY ANTI-SEIZE PASTE OF SPRINGING OR FORCING. BA PERMITTED. ENGAGE THREA FOR CONNECTIONS TO VALV PROVIDED.
		30.	WELDED JOINTS: WELD BY T ACCORDANCE WITH PROCE
		31.	FLANGED JOINTS: USE FLAN TO PROVIDE FOR DISCONNE GASKETS. ENGAGE BOLTS S THAT BOLTS ARE UNIFORML
		32.	USE TEST PRESSURE OF 50 HOURS AT TEMPERATURES PRESSURE LOSS OR VISIBLE
		33.	
		34.	ALL HOT WATER PIPE SHALL 1"-THICK INSULATION FOR P THAN OR EQUAL TO 1"Ø.

PLUMBING GENERAL NOTES	PLUMBING GENERAL NO
LINGS AND/OR UNIONS AT POINTS OF CONNECTION BETWEEN COPPER, STEEL WIS AND DRAINAGE PIPING SYSTEMS, INCLUDING SUPPLY, WASTE AND DRAIN Y MBRAITON ISOLATORS AND SHALL BE ISOLATED FHOM ANY STRUCTURAL IS OR OTHER MATERIALS THAT COULD TRANSMIT SOUND TO THE OCCUPED PARS, BRACKERS, AND SUPPORTS SHALL HAVE ACOUSTICAL COMPONENTS OF DID PLASTIC FOAM BY TECH SPECIALTIES, DIVISION OF SPECIALTY PRODUCTS OD. PCONTACT AREA. ALL ISOLATION MATERIAL SHALL HAVE A MINIMUM THICKNESS PONENTS AS PER MANUFACTURERS INSTRUCTIONS. WHERE REQUIRED BY ORDINANCES, AT ENDS OF HOUSE DRAINS, AT ALL IN ALL STRANGHT RUNS AT 100 FOOT INTERVALS. WHERE MORIZONTAL MAINS LENDS OF ALL BRANCH PIPES WHICH ARE 5' OR OVER IN LENGTH. LL BE COMPLETED WITH ALL ACCESSORIES REQUIRED FOR A COMPLETE AND RITINGS SHALL AVOID THE TYPE WITH POTENTIAL FOR LEAD CONTAMINATION. HOT AND COLD WATER SUPPLIES TO EACH FIXTURE. AND RITINGS SHALL AVOID THE TYPE WITH POTENTIAL FOR LEAD CONTAMINATION. HOT AND COLD WATER SUPPLIES TO EACH FIXTURE. AND RITINGS OF SERVICE MAINS CONNECTING THE NEW CONSTRUCTION TO ALL DES SHALL BE IN STIRCT ACCORDANCE WITH RULES, REQUIATIONS, CODES AND GENOES HAVING JURISDICTION OVER THIS INSTALLATION. LOCATE ALL EXISTING JO IN THIS CONTRACT BEPORE WORK IS STATED. COORDINATE LOCATION OF RECTORS WITH BULDING ENGINEER. MING PENETRATIONS IN SOUND RATED WALLS AND FLOON/CELINGS. SEAL RETE FLOORS WITH BULDING ENGINEER. MING PENETRATIONS IN SOUND RATED WALLS AND FLOON/CELINGS. SEAL RETE FLOORS WITH CEMENT GROUT. MINIMIZE PENETRATIONS THROUGH SOUND ALL ALL PLUMBING FIXTURES AND TRIM AS SHOWN ON THE ARCHITECTURAL LITXURES SHALL BE EXACTLY TO MEASUREMENTS FURINEED BY FIXTURE OSED PARTS TO BE CHROMIUM PLATED UNLESS SPECIFIED OTHERWISE. HIN THE PLATE LINES AND DID NOT CUT COMPLETELY THROUGH PLATES IN MILL OR SAW NEAT ROUND HOLES FOR ALL PRINKERS FOR ED OTHERWISE. HIN THE PLATE LINES AND DID NOT CUT COMPLETELY THROUGH PLATES IN MILL OR SAW NEAT ROUND HOLES FOR ALL PRINK SUMMATELD BY ENTITIE DETERS TO BE CHROMIUM PLATED UNLESS SPECIFIE	 PRESSURE PIPING AND FITTING: A. DOMESTIC COLD AND HOT WATER (ABOVE GRADE): HARD D SERVICE TUBING CONFORMING TO ASTM B88, TYPE 1", PR CHANGE OF MATERIAL LOCATIONS. B. DOMESTIC COLD AND HOT WATER (BELOW GRADE): HARD D SERVICE TUBING CONFORMING TO ASTM B88, TYPE 1"YE "K C. FITTINGS FOR COPPER WATER TUBING: ANSI B16.22 WROUG HITTING. D. TAPP PRIMER PIPING (UNDERGROUND): HARD DRAWN DEC TUBING CONFORMING TO ASTM B88, TYPE "K", WROUGHT C BRAZED JOINT. E. HARRIS, ENGELHARD, OR EQUAL, BCUP FILLER MATERIAL PC JOINTS FOR HOT WATER PIPING 2-1/2" AND LARGER. SANITARY AND GREASE DRAINAGE PIPING AND FITTING: A. CAST IRON SOIL PIPE AND FITTINGS (ABOVE FLOOR): REOU COMPLIANCE WITH HUD UM 77A CAST IRON HUBLESS SOIL AND FITTINGS SHALL ED MARKED WITH CIPYS COLLECTIVE PRIOR APPROVAL BE THE ENGINEER OF RECOU. JOINTS FO FITTINGS': CIPYS 191 AND SHALL CONFORM TO THE MANUFF FITTINGS': CIPYS 191 AND AND SHALL CONFORM TO THE MANUFF COPPER TUBING AND FITTINGS (BELOW SLAB): ASTM A AND SPIGOT PIPING AND FITTINGS (BELOW SLAB): ASTM A AND SPIGOT PIPING AND FITTINGS (BELOW SLAB): ASTM A AND SPIGOT PIPING AND FITTINGS (BELOW SLAB): ASTM AND SPIGOT PIPING AND FITTINGS (BADVE FLOOR): . COPPER TUBING AND FITTINGS (BADVE FLOOR): . COPPER TUBING AND FITTINGS: ASTM B88 HARD DRAW COPPER TIBING AND FITTINGS: ASTM B88 HARD DRAW COPPER TIBING AND FITTINGS: ASTM B88 HARD DRAW COPPER TRACE WIRE OVER ENTIRE RUN OF PE PIPING AD 2 STILL FORTING WITH ANSI B16.22 WROUGHT COPPER WE SOLDER-JOINT FITTINGS INTALED WITH TWO ADD COPPER TUBING AND FITTINGS: ASTM B88 HARD DRAW COPPER TUBING AND FITTINGS: ASTM B88 HARD DRAW COPPER TUBING AN
IOT AND COLD PIPING AND DRAINAGE SYSTEM FROM CAPPED CONNECTIONS, TO	SECTION 609.9(1-3) OF THE LATEST PLUMBING CODE.
INSULATED PER CODE. FOR ALL STUB OUTS ENDED INSIDE CEILING OR WALL. IV/ASME B16.3 BLACK MALLEABLE IRON. BS: ANSI B16.11 FORGED STEEL. ANSI/ASME B16.9 WROUGHT STEEL WITH BACKING RINGS OF COMPATIBLE IV/ASME B16.9 WROUGHT STEEL WITH BACKING RINGS OF COMPATIBLE IV/ASME B16.9 WROUGHT STEEL WITH BACKING RINGS OF COMPATIBLE IV/ASME B16.9 WROUGHT STEEL FLANGES OR CONVOLUTED STEEL FLANGES. V//ASME B16.5 STEEL FLANGES OR CONVOLUTED STEEL FLANGES. V//ASME/ANSI B16.5 STEEL FLANGES OR CONVOLUTED STEEL FLANGES. V///ASME/ANSI B1.20.1. PROVIDE THREADS, OTHERWISE CUT PIPE MITH ANSI/ASME B1.20.1. PROVIDE THREADS SMOOTH, CLEAN, AND FULL-CUT. OR TAPE TO MALE THREADS PORTION. WORK PIPING INTO PLACE WITHOUT BACKING OFF TO PERMIT ALIGNMENT OF THREADE JOINTS WILL NOT BE EADS SO THAT NOT MORE THAN TWO THREADS REMAIN EXPOSED. USE UNIONS ALVES, METERS FOR WHICH A MEANS OF DISCONNECTION IS NOT OTHERWISE V// THE SHIELDED METAL-ARC PROCESS, USING COVERED ELECTRODES AND IN CEDURES ESTABLISHED AND QUALIFIED IN ACCORDANCE WITH ASME B31.8. ANGED JOINTS FOR CONNECTING WELDED JOINT PIPE AND FITTINGS TO VALVES NECTION. INSTALL JOINTS SO THAT FLANGE FACES BEAR UNIFORMLY ON S SO THAT NOT THERE IF COMPLETE THREADING THROUGH THE NUTS AND TIGHTEN SO MIY STRESSED AND EQUALLY TORQUE. SO PSIG. DO NOT TEST UNTIL EVERY JOINT HAS SET AND COOLED AT LEAST 8 S ABOVE 50 DEGREES F. TEST PIPING SYSTEM FOR AT LEAST 4 HOURS WITHOUT LE LEAKS.	 PROVIDE PLUMBING SYSTEM DEMOLITION PER PLAN. FURNISH AND INSTALL PLUMBING FIXTURES AND ASSOCIATED (FURNISH AND INSTALL NEW DOMESTIC WATER PIPING SYSTEM (COMPONENTS PER PLAN. FURNISH AND INSTALL NEW WASTE AND VENT SYSTEM WITH ALL PLAN. FURNISH AND INSTALL NATURAL GAS PIPING SYSTEM AND ALL (PLAN. FURNISH AND INSTALL CONDENSATE PIPING SYSTEM AND ALL (PLAN. FURNISH AND INSTALL CONDENSATE PIPING SYSTEM AND ALL (PLAN. FURNISH AND INSTALL CONDENSATE PIPING SYSTEM AND ALL (PLAN. FURNISH AND INSTALL CONDENSATE PIPING SYSTEM AND ALL (PLAN. FURNISH G SCHEDULES, CALCULATION, AND TABLES P-0.3 PLUMBING SCHEDULES, CALCULATION, AND TABLES P-0.3 PLUMBING DETAILS P-1.0 PARTIAL GROUND FLOOR DOMESTIC WATER AND NATURAL P-1.1 PARTIAL GROUND FLOOR WASTE AND VENT PIPING PLANS P-2.0 PARTIAL ROOF PLUMBING PLAN APPLICABLE CODE 2019 CALIFORNIA BUILDING CODE 2019 CALIFORNIA ENERGY CODE 2019 CALIFORNIA FIRE CODE 2019 NEPA 13
IE LEARS. IECTION SIZE: SEE PLAN. ILL BE INSULATED WITH INSULATION PER 2019 TITLE 24 STANDARD. MINIMUM PIPE LESS THAN 1"Ø AND MINIMUM 1½"-THICK INSULATION FOR PIPE LARGER	ALL AMENDMENTS AND SUPPLEMENTS TO ABOVE CODES ALL CITY OF LA PUENTE ORDINANCES AND AMENDMENTS TO ABOV

IOTES

D DRAWN DEOXIDIZED WATER PROVIDE 125 PSI FLANGE AT

D DRAWN DEOXIDIZED WATER "K".

UGHT COPPER SOLDER-JOINT

EOXIDIZED WATER SERVICE T COPPER FITTING AND

L FOR BRAZING OF COPPER G 2-1/2" AND LARGER. BRAZE

QUIRED CISPI 301 & 310 WHICH IL PIPE AND FITTING. ALL PIPE TIVE TRADEMARK OR RECEIVE S FOR HUBLESS PIPE AND JFACTURER'S INSTALLATION CO "HUSKY SD 4000, COMPLY WITH FM 1680, CLASS

A74 STANDARD WEIGHT HUB S SHALL BE MARKED WITH PROVAL BE THE ENGINEER OF

GS: ASTM C-564 COMPRESSION JM. : ASTM B306 DWV TYPE -JOINT DRAINAGE TYPE

OR COUPLING WITH TWO BANDS. AWN DEOXIDIZED, TYPE M WYES AND LONG RADIUS

CONFORMING WITH ASTM D ASTM D 2683, AND MINIMUM NGS WITH SDR 11. PROVIDE NG AND RISER AT EACH UND. PROVIDE 16 AWG T 12 INCHES ABOVE PIPE.

ACK STEEL PIPING WITH ANSI B16.3, AND SCHEDULE 40 STM A234, OR ASME B16.9

LISTED. NG OR SELF-CLOSING

ATER TEMPERATURE TO 105°F. EEDS 8% SHALL BE PROHIBITED

WITH QUICK DISCONNECT) TO THE EQUIPMENT.

IDARDS REFERENCED IN TABLE N 5.303.6.

719.0 OF LATEST CPC.

FORIES AND SINKS SHALL BE GAINST CONTACT. ASME A 112.18.9.

E WATER LINES SHALL BE

PRIOR TO USE ACCORDING TO

ED COMPONENTS PER PLAN.

EM WITH ALL OTHER ASSOCIATED

ALL OTHER ASSOCIATED COMPONENT PER

L OTHER ASSOCIATED COMPONENTS PER

L OTHER ASSOCIATED COMPONENTS PER

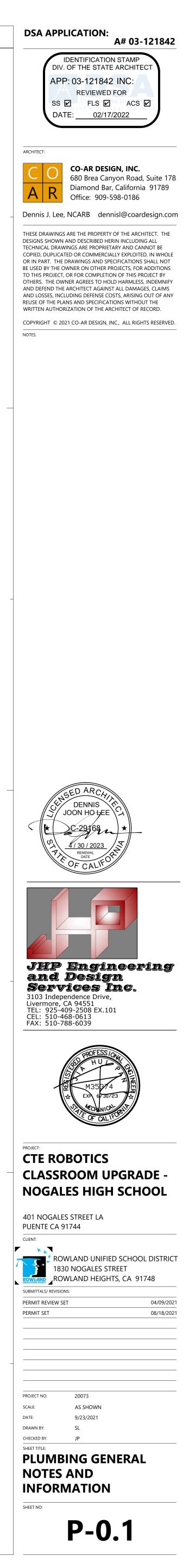
RAL GAS PIPING PLANS

BOVE CODES

SYMBOL		DESCRIPTION
\UP		EQUIPMENT TYPE EQUIPMENT NUMBER
0 M-?		DETAIL DRAWING NUMBER DETAIL DRAWING PAGE
	POC	POINT OF CONNECTION
	POD	POINT OF DISCONNECT
•		PLUMBING FIXTURE CONNECTION
=	CO	CLEAN OUT
C	DN.	PIPE DOWN
0	UP	PIPE UP
>		FLOW DIRECTION
	TP	TRAP PRIMER W/ WALL ACCESS PANEL
\bowtie	SOV	SHUT-OFF VALVE
\mathbb{N}	CKV	CHECK VALVE
Ь	GCK	GAS COCK
\oplus	FD	FLOOR DRAIN
►	PR	PIPE REDUCER
£	WCO	WALL CLEAN-OUT
\ominus	FCO	FLOOR CLEAN-OUT
LINE TYPE	ABBREV.	DESCRIPTION
-//////// -	(D)	PIPE TO BE REMOVED
	(E)	EXISTING PIPE TO REMAIN
— G —	G.	NATURAL GAS
—HWS —	HWS	HOT WATER SUPPLY
—HWR—	HWR	HOT WATER RETURN
CW	CW	COLD WATER SUPPLY
	SW	SANITARY WASTE
	V	VENT PIPE
CD	CD	CONDENSATE DRAIN
	BFP	BACK-FLOW PREVENTER

LEGENDS, SYMBOLS AND ABBREVIATIONS

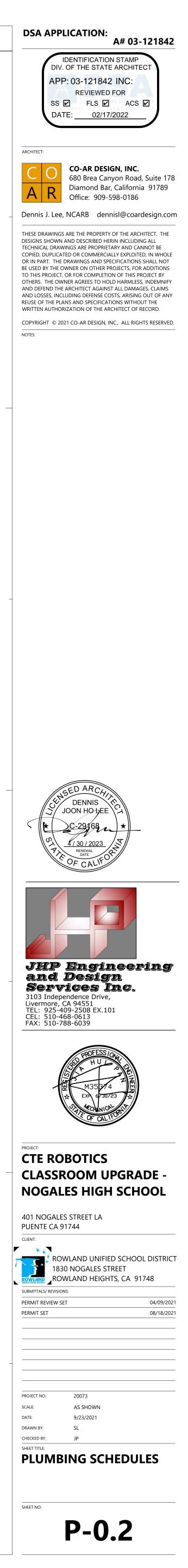
ABBR.	DESCRIPTION	ABBR.	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	FR	FROM
BG BLDG	BELOW GRADE BUILDING	GE	GREASE EXHAUST
BSMT	BASEMENT	ICS INS	IN CEILING SPACE INSULATION (THERMAL)
CFF CLG	CAP FOR FUTURE CEILING	NIC	NOT IN CONTRACT
CSD EA	CEILING SUPPLY DIFFUSER	OSA	OUTSIDE AIR (FRESH AIR)
DN	DOWN	SA SAD	SUPPLY AIR SEE ARCHITECTURAL DRAWING
FA	FRESH AIR	SOV	SHUT-OFF VALVE SIDEWALL RETURN REGISTER
FL	FLOOR	UTR	UP THROUGH ROOF
FR	FROM	VTF	VENT THROUGH ROOF

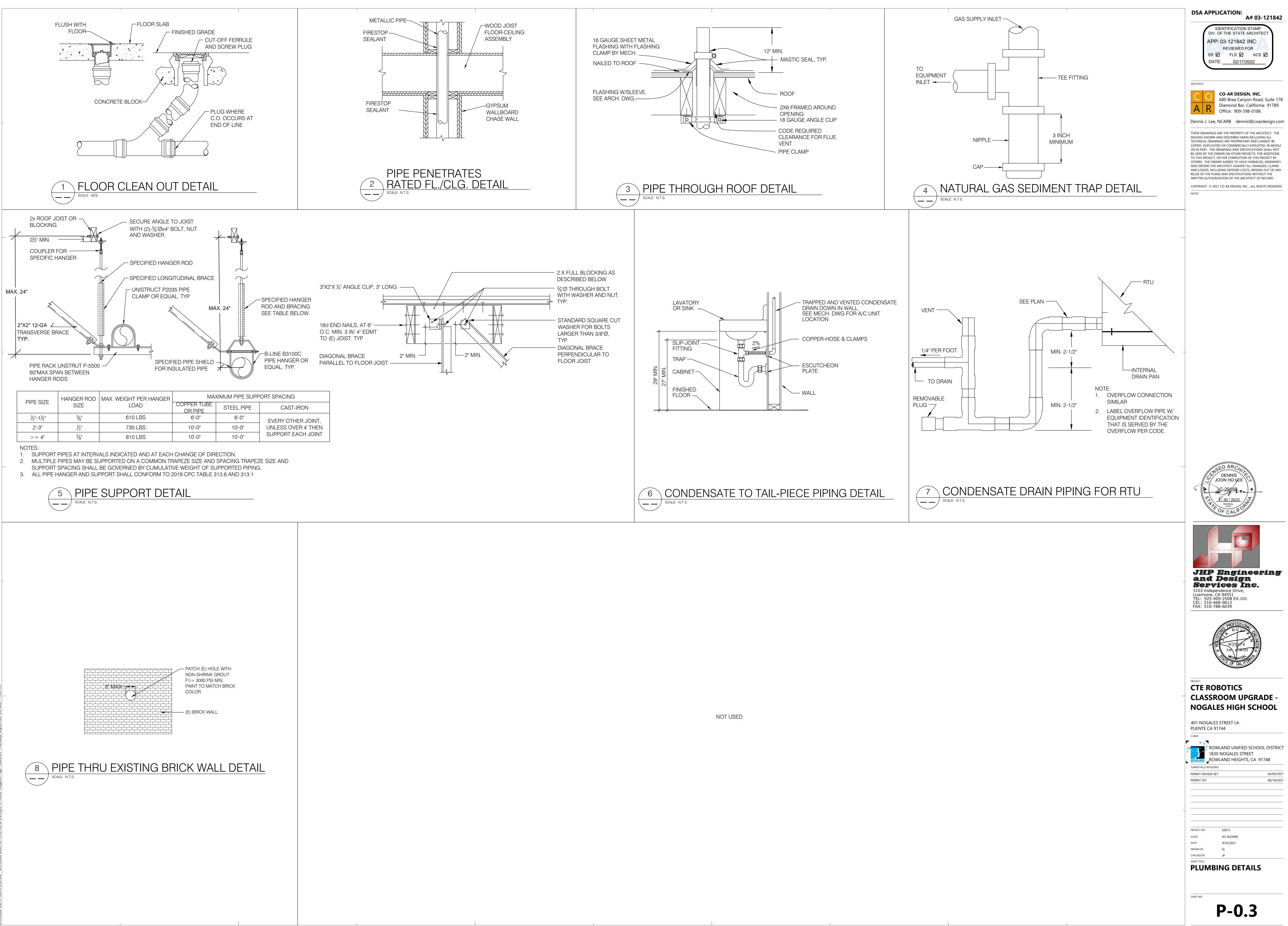


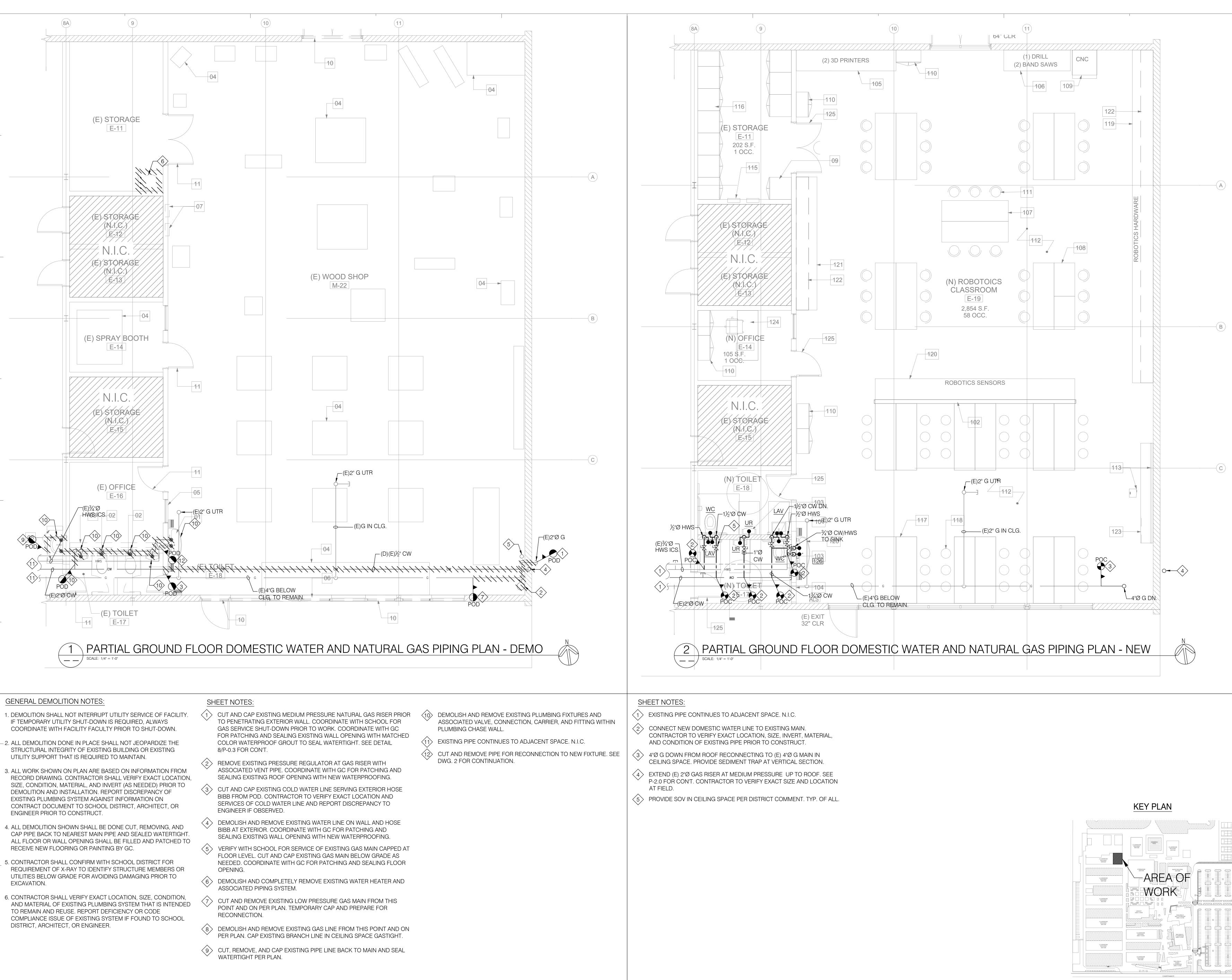
	, , , , , , , , , , , , , , , , , , ,			PLUMBING	EQL	IPMEN	T SCHE	EDULE	ES, CAL	CULATIO	ON, AND T	ABLES			·			
		PLUMBING FIXTURE SCHEDULE	PLUMBING FIXTURE UNIT (FU) CALCULATION MINIMUM PLUMBING FIXTURE BRANCH PIPE SIZE									Ξ						
TAG FIXTURE	MAX. WATER USAGE	DESCRIPTION		FIXTURE		WA	ΓER	SA	ANITARY	WASTE	TAG	FIXTURE	WASTE	TRAP	VENT**	CW	HW	REMARK
	1.28	AMERICAN STANDARD MEDERA FLOWISE 16-1/2" HEIGHT ELONGATED FLUSHOMETER TOILET. ADA COMPLIANT. HIGH EFFICIENCY, LOW CONSUMPTION. 1.1 TO 1.6 GPF. ELONGATED BOWL. TOILET SHALL	TAG	TYPE	QTY	EACH	TOTAL		EACH	TOTAL		WATER CLOSET						
(WC-3)	GAL./FLUSH	HAVE OPTIONAL CEFIONTECT CERAMIC GLAZE.		URINAL	2		70.0 35.0	2	4.0 2.0	8.0 4.0		(FLUSH VALVE)	4"Ø		2"Ø	1¼"Ø		13
URINAL, ADA	0.125 GPM	KOHLER BARDON HIGH EFFICIENCY WASHOUT URINAL. MODEL: K-4991-ETSS. 0.125-GPF ECOPOWER FLUSH VALVE K-76317, ADA COMPLIANT, COMPLETE WITH ³ / ₄ " TOP SPUD INLET AND CEFIONTECT, AND WALL MOUNT	UR LAV	LAVATORY	2		2.0	2	2.0	4.0	UR LAV	URINAL (FLUSH VALVE)	2"Ø 2"Ø	1½"Ø 1½"Ø	2"Ø 1½"Ø	³ ⁄₄"Ø 1∕₂"Ø	 1⁄2"Ø	13 12
		CARRIER. AMERICAN STANDARD LUCERNE WALL-HUNG LAVATORY. MODEL: 0355.012. SINGLE CENTER. ADA	<u>126</u>	UTILITY SINK	1	3.0	3.0	1	3.0 19	3.0		UTILITY SINK	2"Ø	2"Ø	1½"Ø	3⁄4"Ø	3⁄4"Ø	12
LAV (L-2)	0.4 GPM	COMPLIANT. CONFIRM COLOR AND FINISH WITH ARCHITECT/OWNER PRIOR TO ORDER. CHICAGO FAUCETS NO. 3400-ABCP, SINK FAUCET FOR HOT AND COLD WATER, METERING, DECK-MOUNTED WITH 4" FIXED CENTERS, CHROME PLATED. INTEGRAL CAST BRASS SPOUT, 4-3/4" CENTER-TO-CENTER. 0.5 GPM (1.9 L/MIN) VANDAL-PROOF, PRESSURE COMPENSATING, ECONO-FLO, NON-AERATING SPRAY. MVP SELF-CLOSING, AUTO-TIMED METERING CARTRIDGE, ADJUSTABLE RUN TIME FROM 2 TO 15 SECONDS, OPENS WITH PUSH, 0.25 GALLON/CYCLE. 1/2" NPSM SUPPLY INLETS AND COUPLING NUT FOR 3/8" OR 1/2" FLEXIBLE RISER. PROVIDE THERMAL MIXING VALVE TO LIMIT HOT WATER AT NO HIGHER THAN 110°F.	(PER 2019 DISTANCE T MIN. REQUIE	<u>JPPLY SYSTEM:</u> <u>CPC TABLE 610.4, OV</u> O MOST REMOTE FIXTUR RED SIZE OF WATER METI ETER AND NEW COLD MA	E = 18 ER/MA	5 PSI) 50 FT. IN: 1½"Ø I	METER/1 ¹ /2	_	N		MANU BETWE APPRO INSTA 2. UNDE	GIZES SHOWN MAY NOT BE IFACTURER RECOMMENDE EEN BRANCH LINE AND CC OVED MECHANICAL DEVIC LLED AS CLOSE AS POSSI RGROUND VENT PIPE SHA	D PIPING CON NNECTION AS ES IN ACCOP BLE TO QUIC	NNECTION S S REQUIRED RDANCE WI CK-ACTING \	NZES PRIOR T D. WATER HAN TH ASSE 1010 ALVES.	O INSTALL. MMER ARRE 0 OR PDI-W	PROVIDE RE STERS SHA H 201 AND S	EDUCER ALL BE SHALL BE
126 UTILITY SINK	0.5 GPM	ELLIPSE WALL MOUNTED HAND WASH BASIN, ADA/OBC COMPLIANT. MODEL: ELPS2-SW000-F60-PS1000-PS. STAINLESS-STEEL WALL MOUNTED HAND WASH BASIN, 1½" DRAIN, 16 GAUGE, 304 STAINLESS STEEL, SINGLE TEMP BATTERY POWERED SENSOR OPERATED FAUCET WITH STAINLESS STEEL "J" SPOUT AND DECK PLATE FOR 4" CENTERSET PUNCHING, NSF, AND LEAD -FREE, 0.5 GPM (1.9 LPM) FLOW CONTROL. COMPLY WITH UPC, cUPC, AND ASME A112.19.3. SINGLE TEMPERATURE SENSOR OPERATED FAUCET, J SPOUT, PLATE SW000-F60, PUMP SOAP DISPENSER PS1000-PS, STRAINER, TAILPIECE, 1½" P-TRAP, CHROME ELPS-PTC.	(PER 2019 MINIMUM RE EXISTING BU MINIMUM RE	<u>ND VENT SYSTEM:</u> <u>CPC TABLE 703.2)</u> EQUIRED SIZE OF WASTE JILDING WASTE MAIN: (1) EQUIRED SIZE OF VENT P JILDING VENT PIPE: (1)4"@	4"Ø S\ PE: (1	Ň	N				3. UNDE NOTES <u>REMARKS</u> (1) PROVID PLUMBI (2) PROVIDE	S FOR DETAIL. RGROUND COLD WATER I S FOR DETAIL. E ISOLATION VALVE AND ING FIXTURE. E THERMAL MIXING VALVE A VALVE PLUMBING FIXTURE	WATER HAMN	MER ARRES	TER FOR EAC	CH FIXTURE	AT EACH	IBING GENERAL

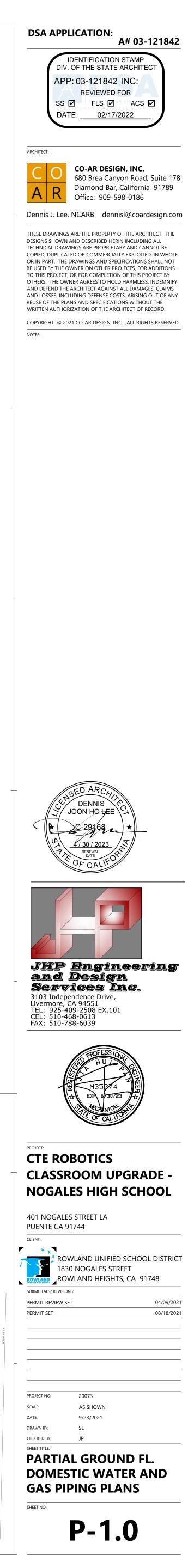
PLUMBING MATERIAL SCHEDULE*									
ITEM	LOCATION	SPECIFICATIONS							
DOMESTIC COLD WATER PIPE	ABOVE GRADE	TYPE L COPPER. PIPE SHALL CONFORM WITH ASTM-(B42, B43, B75, B88, B135, B251, B302, B447). PIPE FITTING SHALL CONFORM WITH ASTM-(B16.15, B16.18, B16.22, B16.26, B16.50, B16.51), ASSE 1061.							
DOMESTIC COLD WATER PIPE	BELOW GRADE	TYPE K COPPER. PIPE SHALL CONFORM WITH ASTM-(B42, B43, B75, B88, B135, B251, B302, B447). PIPE FITTING SHALL CONFORM WITH ASTM-(B16.15, B16.18, B16.22, B16.26, B16.50, B16.51), ASSE 1061.							
SANITARY WASTE AND VENT PIPE	ABOVE GRADE	CAST IRON NO-HUB. PIPE SHALL CONFORM WITH ASTM-D2661, ASTM D2680. PIPE FITTING SHALL CONFORM WITH ASTM D2661, ASTM D2680							
SANITARY WASTE AND VENT PIPE	BELOW GRADE	SCHEDULE 40 PVC. PIPE SHALL CONFORM WITH ASTM-D1785, D2665, F794. PIPE FITTING SHALL CONFORM WITH ASTM D2665, F794, F1866.							
NATURAL GAS	ABOVE GRADE	BLACK STEEL SCHE. 40 PAINT WITH RUST INHIBITOR							
NATURAL GAS	BELOW GRADE	PE 2406, POLYETHYLENE PIPING CONFORMING WITH ASTM D 2513, WITH SOCKET TYPE FITTINGS CONFORMING WITH ASTM D 2683, AND MINIMUM SDR 11.							
CONDENSATE	ABOVE AND BELOW GRADE	TYPE M COPPER. PIPE SHALL CONFORM WITH ASTM-(B-43, B75, B251, B302, B306). PIPE FITTING SHALL CONFORM WITH ASTM-(B16.23, B16.29), ASSE 1061.							

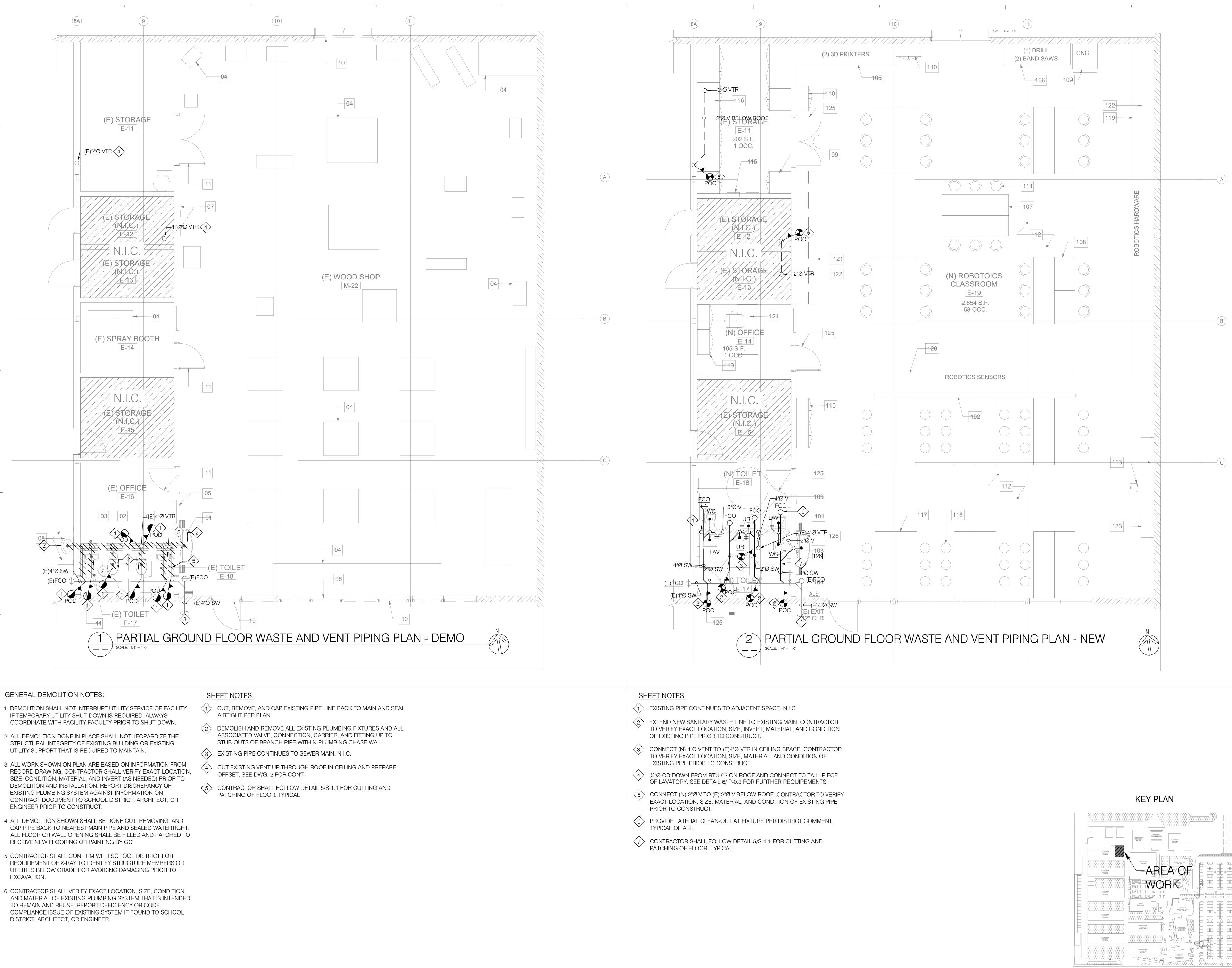
* SCHEDULE SHOWN FOR QUICK REFERENCE ONLY. SEE SPECIFICATIONS FOR DETAILS. MATERIALS FOR DRAINAGE PIPING SHALL BE IN ACCORDANCE WITH ONE OF THE REFERENCED * STANDARDS IN TABLE 701.2. MATERIALS FOR BUILDING WATER PIPING AND BUILDING SUPPLY PIPING SHALL COMPLY WITH THE APPLICABLE STANDARD REFERENCED IN TABLE 604.1. * ALL METALLIC NATURAL GAS PIPE AND JOINTING SHALL COMPLY WITH STANDARDS LISTED UNDER CPC 1208.6.

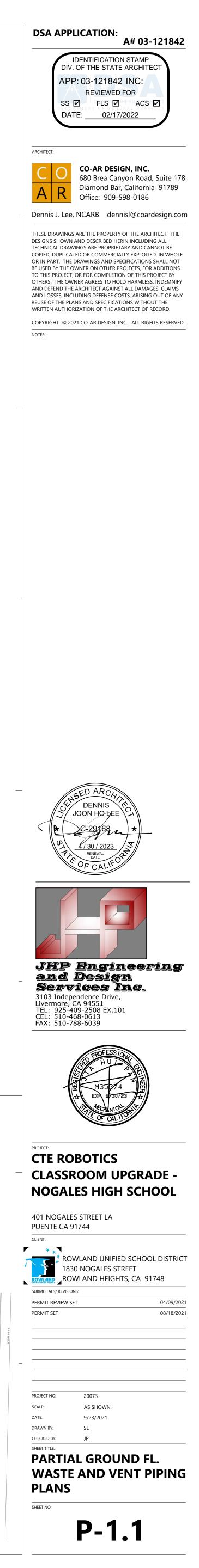


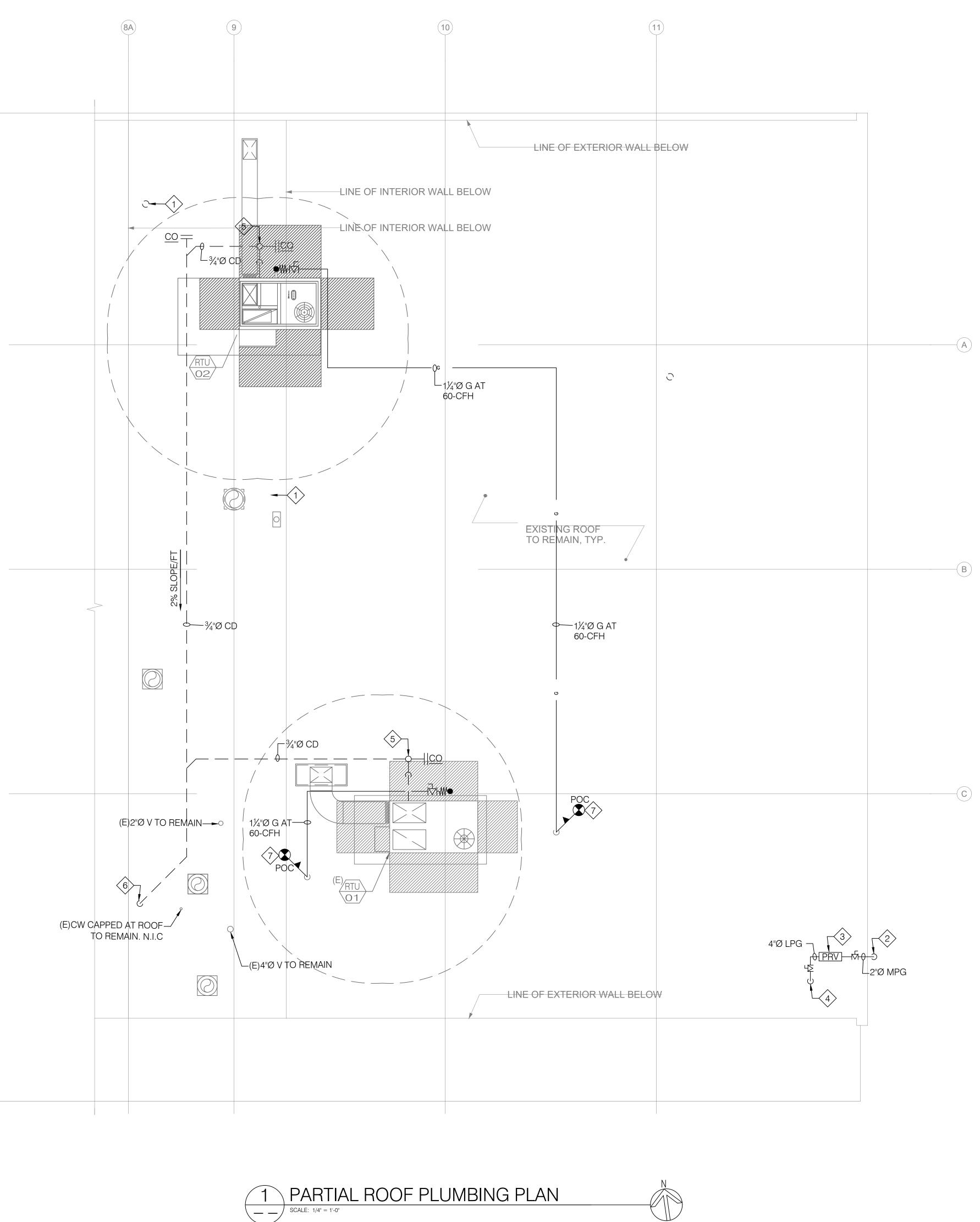










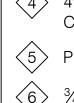


2"Ø V TERMINATE ON ROOF WITH 3-FEET CLEARANCE TO PROPERTY LINE AND 10-FEET CLEARANCE TO OUTSIDE AIR INTAKE.

2 2"Ø MPG UP FROM (E) RISER. SEE DWG. 2/ P-1.0 FOR DETAIL.

CONTRACTOR TO VERIFY SPEC OF EXISTING PRESSURE REGULATOR PRIOR TO DEMOLITION. FURNISH AND INSTALL (N) UL LISTED OUTDOOR PRESSURE REGULATOR WITH MATCHED SPEC ON ROOF WITH GAS SHUT-OFF VALVES.

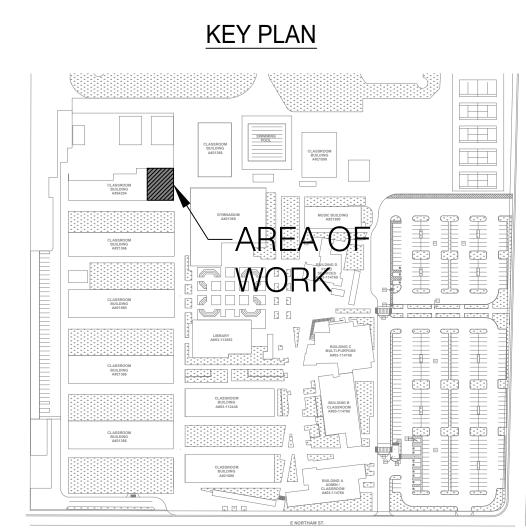
4"Ø LOW PRESSURE GAS (LPG) DOWN AND RECONNECT (E) 4"Ø G MAIN IN CEILING SPACE. SEE P-1.0 FOR CON'T.

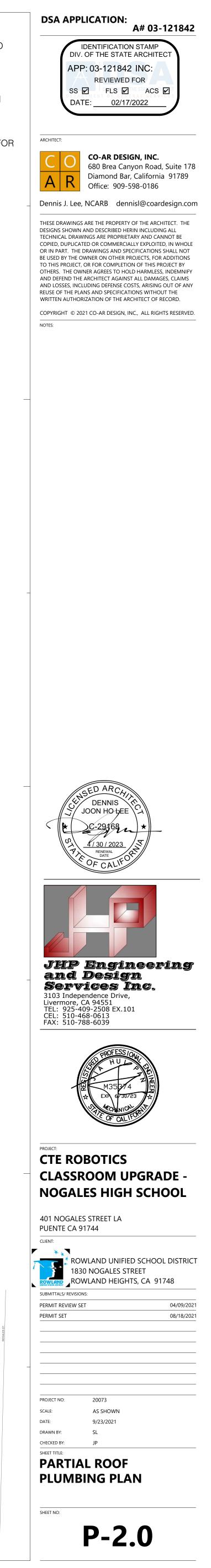


5 PROVIDE $\frac{3}{4}$ "Ø CD WITH TRAP AND VENT TO RTU-02.

6 3/4"Ø CD DOWN TO TAIL-PIECE OF LAV. IN RESTROOM. SEE DWG. 2/ P-1.1 FOR CON'T.

CONNECT (N)1¹/₄"Ø G TO (E)2"Ø G ON ROOF. SEE DWG. 2/ P-1.0 FOR CON'T.





ELECTRICAL SYMBOLS

	LLLOTHICAL STWIDOLS		
A	EXIT SIGN. LED STRIP LIGHTING.	1.	THE SPECIFICATIONS AND DRAWINGS ARE INTENDED TO COVER A COMPLETE INSTALLAT OF SYSTEMS. THE OMISSION OF EXPRESSED REFERENCE TO ANY ITEM OF LABOR OR
AE	LED LIGHTING WITH EMERGENCY BATTERY PACK.		MATERIAL FOR THE PROPER EXECUTION OF THE WORK IN ACCORDANCE WITH PRESENT PRACTICE OF THE TRADE SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH ADDITIONAL LABOR AND MATERIALS.
S	CEILING MOUNT LIGHTING OCCUPANCY SENSOR "nLIGHT #nCMPDT10(RJB)."	2.	WORK INCLUDES ALL LABOR, MATERIALS, APPLIANCES, TOOLS, EQUIPMENT, FACILITIES,
\$	WALL MOUNTED OCCUPANCY SENSOR SWITCH "ACUITY CONTROLS #WSX-PDT". +48" A.F.F., U.O.N.		TRANSPORTATION AND SERVICES NECESSARY FOR AND INCIDENTAL TO PERFORMING A OPERATIONS IN CONNECTION WITH FURNISHING, DELIVERY AND INSTALLATION OF ELECTRICAL SYSTEM, COMPLETE, AS SHOWN ON THE DRAWINGS AND/OR SPECIFIED HEF
DH	WALL MOUNT DIMMER SWITCH "nLIGHT #nPODM4PDX". +48" A.F.F., U.O.N.	3.	CONSTRUCT PROJECT IN ACCORDANCE WITH FOLLOWING CODES: REGULATIONS OF STA
_	CONTROL CABLE, PLENUM RATED CAT-5e DATA CABLE WITH JACK.		AND LOCAL FIRE MARSHAL; NATIONAL ELECTRIC CODE, NATIONAL FIRE PROTECTION ASSOCIATION, EDITION IN FORCE; LOCAL CODES AND ORDINANCES; TITLE 19, 21 AND 24 CALIFORNIA ADMINISTRATIVE CODE.
$\langle A \rangle$	PANEL DESIGNATION, LETTER IDENTIFIES THE PANEL.	4.	PERMITS, FEES AND INSPECTIONS: OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND
 	HEAVY DUTY DISCONNECT SWITCH.		FEES REQUIRED BY ANY CONSTITUTED AUTHORITY HAVING JURISDICTION INCLUDING UTILITIES. ARRANGE AND PAY FOR ALL REQUIRED INSPECTIONS OR EXAMINATIONS AND
S⊤	HORSE POWER RATED SWITCH WITHOUT OVERLOAD.	5	DELIVER CERTIFICATES OF INSPECTION TO ARCHITECT. RECORD DRAWINGS: ON COMPLETION OF WORK, OBTAIN ONE SET OF XEROX VELLUMS
Q	JUNCTION BOX: MOUNTED IN CEILING SPACE OR ON CEILING IF NO CEILING SPACE.	5.	FROM ARCHITECT AT COST OF PRINTING, AND NOTE NEATLY IN SCALE ALL CHANGES ON RECORD SET. DELIVER COMPLETE SET OF VELLUMS TOGETHER WITH ONE SET OF BLUE
₽	GFI TYPE DUPLEX RECEPTACLE 125V., 15 AMP., NEMA 5-15R. +18" A.F.F., U.O.N.		PRINTS TO ARCHITECT TOGETHER WITH CONTRACTOR'S NAME, ADDRESS AND PHONE NUMBER. INCORRECT, NON-LEGIBLE OR NON-REPRODUCIBLE DRAWINGS WILL NOT BE
\ominus	DUPLEX OUTLET 125V, 15 AMPS., NEMA 5-15R. +18" A.F.F., U.O.N.	6.	ACCEPTED. SUBMIT A LIST OF MATERIALS AND EQUIPMENT MANUFACTURERS THAT CONTRACTOR
Ø ØH	CEILING MOUNT DUPLEX OUTLET 125V, 15 AMPS., NEMA 5-15R. +18" A.F.F., U.O.N. DUPLEX OUTLET HORIZONTAL MOUNT, 125V, 15 AMPS., NEMA 5-15R.		INTENDS TO USE. SUBMIT SHOP DRAWINGS FOR: PANELBOARDS, LIGHT FIXTURES, AND DISCONNECT SWITCHES.
₩ ' e	DUPLEX OUTLET 20 AMPS, 250 VOLTS, NEMA 6-20R.	7.	THE TERM "PROVIDE" USED ON DRAWINGS SHALL BE CONSIDERED TO MEAN "FURNISH A INSTALL".
+48" 🕨	TELEPHONE OUTLET, PROVIDE NEW HANDSET, MATCH TO EXISTING.	8.	BEFORE PROCEEDING WITH WORK CAREFULLY CHECK AND VERIFY ALL DIMENSIONS ANI
< 01	WALL MOUNT SECURITY MOTION SENSOR, MATCH TO EXISTING.		SIZES AND ASSUME ALL RESPONSIBILITY FOR FITTING OF MATERIALS AND EQUIPMENT TO OTHER PARTS OF EQUIPMENT AND TO STRUCTURE. WHERE APPARATUS AND EQUIPMENT
	CEILING MOUNT WIRELESS ACCESS POINT (WAP), MATCH TO EXISTING.		HAVE BEEN INDICATED ON DRAWINGS, DIMENSIONS HAVE BEEN TAKEN FROM TYPICAL EQUIPMENT OF CLASS INDICATED. CAREFULLY CHECK DRAWINGS AND SEE THAT EQUIPMENT WILL FIT INTO SPACES PROVIDED.
[HDM] —] 2 ▷	5" SQ. BOX WITH 1-1/4" CONDUIT TO PROJECTOR. DUPLEX DATA OUTLET WITH CAT-6 DATA JACK. +18" A.F.F., U.O.N.	9.	LOCATIONS OF CONDUITS, OUTLETS, APPARATUS AND EQUIPMENT INDICATED ON DRAW
20	CEILING MOUNT DUPLEX DATA OUTLET WITH CAT-6 DATA JACK.		ARE APPROXIMATE ONLY AND SHALL BE CHANGED TO MEET ARCHITECTURAL AND STRUCTURAL CONDITIONS AS REQUIRED.
ÐS	COMBINATION WALL MOUNT CLOCK-SPEAKER, MATCH TO EXISTING.	10.	BE CAUTIONED THAT DIAGRAMS SHOWING ELECTRICAL CONNECTIONS ARE DIAGRAMMA ONLY AND MUST NOT BE USED FOR OBTAINING LINEAL RUNS OF WIRING OR CONDUIT.
2	FLUSH FLOOR BOX, COMBINATION RECEPTACLE AND DUPLEX DATA OUTLETS "WIREMOLD EVOLUTION SERIES #EFB6S".		WIRING DIAGRAMS DO NOT NECESSARILY SHOW EXACT PHYSICAL ARRANGEMENT OF EQUIPMENT.
(E)	EXISTING.	11.	EXTRA WORK OR COSTS TO THIS CONTRACTOR DUE TO OTHER CONTRACTORS OR TRAD SHALL BE ADJUSTED BETWEEN THIS CONTRACTOR AND OFFENDING CONTRACTOR AT NO
GFCI	GROUND FAULT CIRCUIT INTERRUPTER. C.O. CONDUIT ONLY WITH PULL ST	RING. 12.	EXTRA COST TO OWNER. NOTIFY ARCHITECT BEFORE SUCH EXTRA WORK IS DONE. WHERE CONDUITS PASS THROUGH SLEEVES IN INTERIOR WALLS, FLOORS, OR CEILINGS,
A.F.F.	ABOVE FINISHED FLOOR. W.P. WEATHERPROOF.	12.	COMPLETELY FILL SPACE BETWEEN EACH CONDUIT AND ITS SLEEVE TO PROVIDE AN AIRTIGHT SEAL.
U.O.N. A-1,3,5 < ///	UNLESS OTHERWISE NOTED. (N) NEW.	13.	USE GLASS FIBER MATERIAL, "DUXSEAL" COMPOUND, FOR ACOUSTIC SEALS.
< ///	HOMERUN TO PANEL "A", CIRCUITS 1, 3, 5. CONDUIT: EXPOSED IN UNFINISHED AREAS; CONCEALED ABOVE CEILING OR IN WALL IN FINISHED AREA	AS. 14.	ALIGN WALL-MOUNTED OUTLET BOXES FOR SWITCHES, THERMOSTATS, AND SIMILAR DEVICES.
	3/4"C,2#12 & 1#12G	G. 15.	PROVIDE CAST OUTLET BOXES IN EXTERIOR LOCATIONS AND WET LOCATIONS.
	WIREMOLD 5400T SERIES.	16.	WHERE BOXES ARE INSTALLED IN FIRE RATED CEILING OR WALLS, BE RESPONSIBLE FOR PRESERVING INTEGRITY OF FIRE RATING AS REQUIRED.
	⇒ WIREMOLD 2400 SINGLE CHANNEL. ₩IREMOLD 2400D DUAL CHANNEL.	17.	IN FIRE-RATED WALL, USE 4" SQUARE DEEP BOXES. DO NOT AGGREGATE MORE THAN 10 SQUARE INCHES OF BOXES FOR ANY 100 SQUARE FEET OF WALL OR PARTITIONS. SEPAI OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITION BY A MINIMUM HORIZONTA
	CABLE TYPE	18.	DISTANCE OF 24 INCHES. PROVIDE COPPER CONDUCTORS ONLY.
"S" CAB	BLE - "WEST PENN" NO. 240, 2 PAIR #22 - SECURITY ZONE & POWER FEED.	19.	PROVIDE TYPE "THHN" OR "THWN" WIRES ONLY.
"A" CAB	BLE - "WEST PENN" NO. 355, 1 PAIR SHIELDED & 1 PAIR UNSHIELDED #22 - TEL/PA.	20.	MOUNT RECEPTACLES, TELEPHONES AND J-BOXES LOCATED IN WALL AT +18" FROM FLO LINE TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED ON PLAN.
	BLE - 3#12 CLOCK WIRING.	21.	PROVIDE "U.L. APPROVED" OR "U.L. LISTED" ELECTRICAL EQUIPMENT ONLY.
-	BLE - 4 PAIR #24 UTP CATEGORY 6 CABLE AS MANUFACTURED BY COMSCOPE.	22.	PROVIDE WHEREVER NECESSARY ALL ADDITIONAL BACKING, BLOCKING AND SUPPORTS
-	BLE - 6 STRAND MULTIMODE FIBER OPTIC CABLE.	23.	LIGHT FIXTURES. USE RIGID GALVANIZED STEEL CONDUIT FOR ALL SIZES WHERE DIRECTLY EXPOSED TO
			WEATHER; WHERE SUBJECT TO ABNORMAL CONDITIONS OF HEAT, COLD, MOISTURE, HUMIDITY, FUMES AND HAZARDOUS ELEMENTS; WHERE INSTALLED EXPOSED BELOW 7-1 FEET, IN AREAS WHERE SUBJECT TO MECHANICAL INJURY INCLUDING MECHANICAL AND EQUIPMENT ROOMS; AND IN CONCRETE SLABS ON GRADE.
	<u>SECURITY CABLE AND WIRING</u> -15 3/4"CONDUIT WITH ONE "S" CABLE.	24.	EMT CONDUIT WITH COMPRESSION TYPE FITTINGS MAY BE USED FOR ALL SIZES UP TO 1 INCHES MAXIMUM TRADE SIZE IN DRY LOCATIONS AS IN STUD PARTITIONS AND FURRED
	-2S 3/4"CONDUIT WITH TWO "S" CABLES.		CEILING SPACES. CONDUITS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET TO PANE EXCEPT WHERE RIGID STEEL CONDUIT IS REQUIRED OR INDICATED. EMT SHALL NOT BE EXPOSED, IN CONCRETE, RUNS MORE THAN 100 FEET FOR POWER FEEDERS.
-	TELEPHONE CABLE AND WIRING	25.	USE FLEXIBLE STEEL CONDUIT ONLY WHERE INDICATED AND FOR SHORT MOTOR OR VIBRATING EQUIPMENT CONNECTIONS, MINIMUM 36 INCHES LONG, OR FOR CONNECTION RECESSED FIXTURES FROM JUNCTION OR PULLBOXES. MAXIMUM LENGTH FOR ANY
_	-1T 3/4" CONDUIT WITH ONE "T" CABLE.		APPLICATION SHALL BE 6 FEET. PROVIDE LIQUIDTIGHT FLEXIBLE CONDUIT WITH SEPARA INSULATED, STRANDED COPPER EQUIPMENT GROUND CONDUCTOR FOR CONNECTIONS
	-2T 1" CONDUIT WITH TWO "T" CABLES.	26	AREAS EXPOSED TO THE WEATHER, DAMP OR WET LOCATIONS AND CONNECTIONS TO MOTORS AND TRANSFORMER ENCLOSURES, REGARDLESS OF LOCATION.
(CLOCK CABLE & WIRING	26.	WIRING DEVICES: HIGHEST SPECIFICATION GRADE, COLOR AS SELECTED BY ARCHITECT INTERIOR DESIGNER.
_	—C— 3/4" CONDUIT WITH ONE "C" CABLE.	27.	WIRING DEVICE PLATES: COLOR-FINISH AS SELECTED BY ARCHITECT OR INTERIOR DESIGNER.
F	PA/IC, SPEAKER CABLE & WIRING	28.	PROVIDE ALL NECESSARY J-BOXES AND PULL BOXES OF PROPER SIZES AS REQUIRED.
_	-1A- 3/4" CONDUIT WITH ONE "A" CABLE.	29.	ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY AND INDICATE GENERAL ARRANGEME OF WORK. BE RESPONSIBLE FOR CHECKING AND COORDINATING WITH OTHER TRADES / VERIFYING SPACE IN WHICH WORK WILL BE INSTALLED.
-	-2A- 3/4" CONDUIT WITH TWO "A" CABLES.	30.	EXISTING CONDITIONS AS INDICATED ON THESE DRAWINGS HAVE BEEN OBTAINED FROM
<u>C</u>	COMPUTER DATA CABLE & WIRING		BEST SOURCES AVAILABLE BUT CANNOT BE GUARANTEED. CONTRACTOR IS RESPONSIE FOR VERIFYING ALL EXISTING CONDITIONS BEFORE PROCEEDING WITH WORK. INCLUDE PART OF CONTRACT ALL WORK REQUIRED TO PRODUCE THE INDICATED RESULT.
_	-1D— 3/4" CONDUIT WITH ONE "D" CABLE.	31.	SEAL ALL SPACE AROUND CONDUIT PENETRATION THROUGH FIRE-RATED WALL WITH A ULISTED FIRE BARRIER COMPOUND. "3M" CAULKING OR EQUAL.
	-2D— 3/4" CONDUIT WITH TWO "D" CABLES.	32.	INCLUDE ALL ELECTRICAL DEMOLITION AS PART OF THIS CONTRACT. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF WALL REMOVALS, CEILING CHANGES AND A
	-3D— 3/4" CONDUIT WITH THREE "D" CABLES. -4D— 3/4" CONDUIT WITH FOUR "D" CABLES.		OTHER SIMILAR WORK. ELECTRICAL DEMOLITION SHALL INCLUDE DISCONNECTION AND REMOVAL OF AFFECTED LIGHTS, OUTLETS AND ALL OTHER ELECTRICAL DEVICES. REMO AND PLUG OR CAP ALL AFFECTED CONDUITS. REMOVE WIRES. IF REMOVED OUTLETS
	-5D— 1" CONDUIT WITH (5) "D" CABLES.		AND PLUG OR CAP ALL AFFECTED CONDUITS. REMOVE WIRES. IF REMOVED OUTLETS AFFECT DOWNSTREAM ACTIVE OUTLETS, PROVIDE ALL WORK NECESSARY TO REROUTE RECONNECT AFFECTED CIRCUITS.
_	-6D— 1" CONDUIT WITH (6) "D" CABLES.		

-8D- 1-1/2" CONDUIT WITH (8) "D" CABLES.

-10D- 1-1/2" CONDUIT WITH (10) "D" CABLES.

GENERAL NOTES

> LABOR, MATERIALS, APPLIANCES, TOOLS, EQUIPMENT, FACILITIES, ND SERVICES NECESSARY FOR AND INCIDENTAL TO PERFORMING ALL INECTION WITH FURNISHING, DELIVERY AND INSTALLATION OF *I*, COMPLETE, AS SHOWN ON THE DRAWINGS AND/OR SPECIFIED HEREIN. CT IN ACCORDANCE WITH FOLLOWING CODES: REGULATIONS OF STATE RSHAL; NATIONAL ELECTRIC CODE, NATIONAL FIRE PROTECTION ON IN FORCE; LOCAL CODES AND ORDINANCES; TITLE 19, 21 AND 24

: ON COMPLETION OF WORK, OBTAIN ONE SET OF XEROX VELLUMS COST OF PRINTING, AND NOTE NEATLY IN SCALE ALL CHANGES ON ER COMPLETE SET OF VELLUMS TOGETHER WITH ONE SET OF BLUELINE CT TOGETHER WITH CONTRACTOR'S NAME, ADDRESS AND PHONE CT, NON-LEGIBLE OR NON-REPRODUCIBLE DRAWINGS WILL NOT BE

IG WITH WORK CAREFULLY CHECK AND VERIFY ALL DIMENSIONS AND ALL RESPONSIBILITY FOR FITTING OF MATERIALS AND EQUIPMENT TO DUIPMENT AND TO STRUCTURE. WHERE APPARATUS AND EQUIPMENT ED ON DRAWINGS, DIMENSIONS HAVE BEEN TAKEN FROM TYPICAL S INDICATED. CAREFULLY CHECK DRAWINGS AND SEE THAT INTO SPACES PROVIDED.

DUITS, OUTLETS, APPARATUS AND EQUIPMENT INDICATED ON DRAWINGS ONLY AND SHALL BE CHANGED TO MEET ARCHITECTURAL AND TIONS AS REQUIRED.

RITY OF FIRE RATING AS REQUIRED. , USE 4" SQUARE DEEP BOXES. DO NOT AGGREGATE MORE THAN 100 BOXES FOR ANY 100 SQUARE FEET OF WALL OR PARTITIONS. SEPARATE OPPOSITE SIDES OF WALLS OR PARTITION BY A MINIMUM HORIZONTAL

OVED" OR "U.L. LISTED" ELECTRICAL EQUIPMENT ONLY. R NECESSARY ALL ADDITIONAL BACKING, BLOCKING AND SUPPORTS FOR

COMPRESSION TYPE FITTINGS MAY BE USED FOR ALL SIZES UP TO 1-1/2 RADE SIZE IN DRY LOCATIONS AS IN STUD PARTITIONS AND FURRED ONDUITS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET TO PANEL ID STEEL CONDUIT IS REQUIRED OR INDICATED. EMT SHALL NOT BE RUN ETE, RUNS MORE THAN 100 FEET FOR POWER FEEDERS.

CONDUIT ONLY WHERE INDICATED AND FOR SHORT MOTOR OR INT CONNECTIONS, MINIMUM 36 INCHES LONG, OR FOR CONNECTIONS TO S FROM JUNCTION OR PULLBOXES. MAXIMUM LENGTH FOR ANY BE 6 FEET. PROVIDE LIQUIDTIGHT FLEXIBLE CONDUIT WITH SEPARATE ED COPPER EQUIPMENT GROUND CONDUCTOR FOR CONNECTIONS IN THE WEATHER. DAMP OR WET LOCATIONS AND CONNECTIONS TO FORMER ENCLOSURES, REGARDLESS OF LOCATION.

GHEST SPECIFICATION GRADE, COLOR AS SELECTED BY ARCHITECT OR

IGS ARE DIAGRAMMATIC ONLY AND INDICATE GENERAL ARRANGEMENT ONSIBLE FOR CHECKING AND COORDINATING WITH OTHER TRADES AND WHICH WORK WILL BE INSTALLED.

NS AS INDICATED ON THESE DRAWINGS HAVE BEEN OBTAINED FROM ILABLE BUT CANNOT BE GUARANTEED. CONTRACTOR IS RESPONSIBLE EXISTING CONDITIONS BEFORE PROCEEDING WITH WORK. INCLUDE AS ALL WORK REQUIRED TO PRODUCE THE INDICATED RESULT.

RICAL DEMOLITION AS PART OF THIS CONTRACT. REFER TO AWINGS FOR EXTENT OF WALL REMOVALS, CEILING CHANGES AND ALL K. ELECTRICAL DEMOLITION SHALL INCLUDE DISCONNECTION AND TED LIGHTS, OUTLETS AND ALL OTHER ELECTRICAL DEVICES. REMOVE LL AFFECTED CONDUITS. REMOVE WIRES. IF REMOVED OUTLETS AM ACTIVE OUTLETS, PROVIDE ALL WORK NECESSARY TO REROUTE AND FED CIRCUITS.

LIGHTING FIXTURE SCHEDULE ABBREVIATIONS: NOTES. 1. VERIFY EXACT CEILING TYPE AND PROVIDE PROPER FIXTURES WITH ALL NECESSARY CLG = CEILING MOUNTING ACCESSORIES. REC = RECESS CHN = CHAIN HUNG PEN = PENDANT SPC = SPECIAL LED =LED

	=LED						
TYPE	MTG.	MANUFACTURER AND CATALOG NUMBER	FINISH		TOTAL	VOLT	DESCRIPTION
A	PEN	MARK LIGHTING #PLN8-LSL-MSL4-80CRI-40K-ID800LMF- 20/80-MIN1-MVOLT-nLIGHT-FLEP-F2-36A	WH	TYPE LED	WATTS 24.3	120	PENDANT MOUNT LED LIGHTING FIXTURE WITH COMPLETE MOUNTING ACCESSORY.
AE	PEN	MARK LIGHTING #PLN8-LSL-MSL4-80CRI-40K-ID800LMF- 20/80-MIN1-MVOLT-nLIGHT-FLEP-F2-36A-E10WCLP	WH	LED	24.3	120	SAME AS TYPE "A" EXCEPT WITH BUILT-IN EMERGENCY BATTERY PACK.
A1	PEN	MARK LIGHTING #PLN8-LSL-MSL4-80CRI-40K-ID1000LMF- 20/80-MIN1-MVOLT-nLIGHT-FLEP-F2-36A	WH	LED	31.6	120	PENDANT MOUNT LED LIGHTING FIXTURE WITH COMPLETE MOUNTING ACCESSORY.
В	CLG	LITHONIA #STL4-20L-EZ1-LP840-LSXR10	WH	LED	20	120	SURFACE MOUNT LED LIGHTING FIXTURE WITH COMPLETE MOUNTING ACCESSORY AND BUILT-IN SENSOR SWITCH.
x	SPC	LITHONIA #LV-S-W-1-R-120	WН	LED	2.3	120	EXIT SIGN, UNIVERSAL MOUNT.

EXISTING CONDITION NOTES

- 1. THE WORK OF THIS PROJECT INCLUDES ALTERATIONS TO THE EXISTING SPACE TO ACHIEVE THE ARRANGEMENT INDICATED ON THE DRAWINGS. THE CONTRACTORS SHALL VISIT THE JOB SITE TO DETERMINE THE EXTENT OF DEMOLITION WORK REQUIRED BY CONSTRUCTION ACTIVITIES. THE ARCHITECTURAL DRAWINGS FOR THESE AREAS SHOW THE CHANGES TO BE MADE. THE ELECTRICAL CONTRACTOR SHALL REVISE, RE-ARRANGE, RE-ROUTE OR REMOVE EXISTING WIRING AS REQUIRED TO ACCOMMODATE THE CHANGES AND ADDITIONS SHOWN AND TO PROVIDE CONTINUING SERVICE FOR THE AREAS OF THE PROJECT WHICH ARE TO REMAIN
- 2. THESE DRAWINGS INDICATE THE FINISHED REQUIREMENTS FOR THE ELECTRICAL SYSTEMS, EQUIPMENT, LIGHTING FIXTURES, OUTLETS AND DEVICES. DUE TO STRUCTURAL CONDITIONS, MECHANICAL OR DUCT PIPING INTERFERENCE, RETAINED EXISTING FACILITIES OR FOR OTHER REASONS, THE CONTRACTOR MAY DESIRE TO INSTALL THE WORK IN A MANNER DIFFERENT FROM THAT SHOWN. SUCH CHANGES SHALL BE PRESENTED TO THE OWNER'S REPRESENTATIVE FOR APPROVAL BEFORE PROCEEDING, AND THE RECORD DRAWINGS SHALL BE ACCURATELY REVISED TO SHOW THE CHANGES AS COMPLETED.

IN OPERATION.

- 3. EXISTING ELECTRICAL WIRING MAY BE RE-USED WHERE IT IS IN COMPLIANCE WITH THE JOB REQUIREMENTS AND CODE PROVISIONS AND DOES NOT INTERFERE WITH ACCOMPLISHMENT OF THE WORK BEING DONE.
- 4. ALL EXISTING LIGHTING FIXTURE NOT TO BE RE-USED IN THEIR PRESENT LOCATIONS SHALL BE CAREFULLY REMOVED AND STORED IN A SAFE PLACE. THEY SHALL BE MADE AVAILABLE FOR INSPECTION BY THE OWNER'S REPRESENTATIVE WHO WILL DESIGNATE THOSE TO BE RE-USED, THOSE TO BE STORED BY THE OWNER AND THOSE TO BE REMOVED FROM THE PREMISES BY THE CONTRACTOR.
- 5. THE OUTLETS SHOWN ON THE DRAWINGS ARE THOSE THAT NOW EXIST. THE CONTRACTOR SHALL VISIT THE JOB SITE TO DETERMINE WHICH EXISTING OUTLETS AND DEVICES ARE TO REMAIN AND THE CONDUIT AND OTHER MATERIALS WHICH MAY BE REMOVED TO PROVIDE THE DESIRED ARRANGEMENT.
- 6. IN AREAS WHERE THERE ARE NO ALTERATIONS INDICATED. THE EXISTING FACILITIES SHALL BE RETAINED IN SERVICE. IN CASE OF DOUBT, ASSUME THAT THE ELECTRICAL WIRING IS TO REMAIN IN OPERATION THROUGHOUT THE CONSTRUCTION PERIOD AND THEREAFTER.
- 7. THE ALTERATION OF EXISTING SPACE IS A WORK OF A COMPLEX NATURE WHICH WILL REQUIRE ACCURATE PLANNING, CAREFUL PREPARATION AND EXECUTION, ATTENTION TO DETAIL AND CLOSE SUPERVISION BY THE CONTRACTOR. HE WILL BE REQUIRED TO DO HIS SCHEDULING ARRANGEMENT TO MINIMIZE DISRUPTION OF NORMAL ACTIVITIES OF THE BUILDING. WHERE SHUTDOWN OF POWER TO EXISTING PANELS IS REQUIRED TO ALTERATION WORK, IT SHALL BE DONE AT A TIME SPECIFIED AND SCHEDULED BY THE OWNER'S REPRESENTATIVE.
- 8. WHERE INTERRUPTION OF A CIRCUIT FEEDING EXISTING EQUIPMENT, RECEPTACLES, LIGHTING FIXTURES OR BECAUSE OF NEW WORK, THE CIRCUIT SHALL BE REHABILITATED AND MADE CONTINUOUS FROM PANEL TO LAST EXISTING OUTLET.

CODES, STANDARDS & GUIDES

PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2020

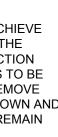
- 2019 California Administrative Code, Part 1, Title 24 C.C.R.* 2019 California Building Code (CBC), Part 2, Title 24 C.C.R.
- (2018 International Building Code Volumes 1-2 and 2019 California Amendments)
- 2019 California Electrical Code (CEC), Part 3, Title 24 C.C.R. (2017 National Electrical Code and 2019 California Amendments)
- 2019 California Mechanical Code (CMC) Part 4, Title 24 C.C.R.
- (2018) Uniform Mechanical Code and 2019 California Amendments) 2019 California Plumbing Code (CPC), Part 5, Title 24 C.C.R.
- (2018) Uniform Plumbing Code and 2019 California Amendments) 2019 California Energy Code (CEC), Part 6, Title 24 C.C.R.*
- 2019 California Fire Code, Part 9, Title 24 C.C.R.
- (2018 International Fire Code and 2019 California Amendments) 2019 California Green Building Standards Code, Part 11, Title 24 C.C.R.
- 2019 California Referenced Standards, Part 12, Title 24 C.C.R.

Title 19 C.C.R., Public Safety, State Fire Marshal Regulations.
2016 ASME A17.1/CSA B44-13 Safety Code for Elevators and Escalators (per 2019 CBC P

PARTIAL LIST OF	- APPLICABLE STANDARDS	
NFPA 13	Automatic Sprinkler Systems	2016 E
NFPA 14	Standpipe Systems	2016 E
NFPA 17	Dry Chemical Extinguishing Systems	2017 E
NFPA 17a	Wet Chemical Systems	2017 E
NFPA 20	Stationary Pumps	2016 E
NFPA 22	Water tanks for Private Fire Protection	2016 E
NFPA 24	Private Fire Mains	2016 E
NFPA 72	National Fire Alarm Code	2016 E
NFPA 80	Fire doors and Other Opening Protectives	2016 E
NFPA 92	Standard for Smoke Control Systems	2012 E
NFPA 253	Critical Radiant Flux of Floor Covering Systems	2015 E
NFPA 2001	Clean Agent Fire Extinguishing Systems	2015 E
ICC 300	ICC Standards on Bleachers, Folding and Telescoping	2012 E
111 200	Seating and Grand stands	2017 5
UL 300	Fire Testing of Fire Extinguishing Systems for Protection	2017 E
	Of Restaurant Cooking Areas	2002 5
UL 464	Audible Signal Appliances	2003 E
UL 521	Heat Detectors for Fire Protective Signaling Systems	1999 E

Reference code section for NFPA Standards- 2019 CBC (SFM) Chapter 35. See Chapter 35 for State of California amendments to NFPA Standards.

* All parts of the 2019 California Building Code become effective January 1, 2020 except the effective date for the use of the 2019 Building Energy Efficiency Standards (Title 24, Part 1, Chapter 10 and Part 6, and affected provisions in Part 11 [Cal. Green Building Standards Code]) is January 8, 2019 and the effective date for California Administrative Code, Part 1, Title 24 is January 8, 2019.



Part 2 Ch 35)



Edition

MEP Component Anchorage Note

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSAapproved 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 Chapters 13, 26 and 30:

- 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 receptacles having a flexible cable. Temporary, movable or mobile equipment which is heavier than 400 pounds or has a 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 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:

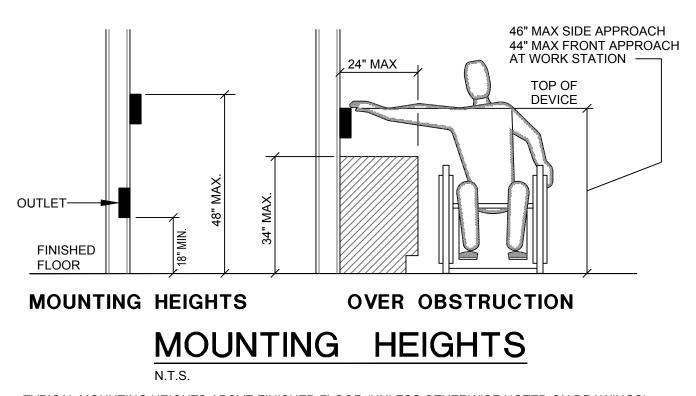
- A. Components weighing less than 400 pounds and having a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
- B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended 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 the 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 2019 CBC, Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26.

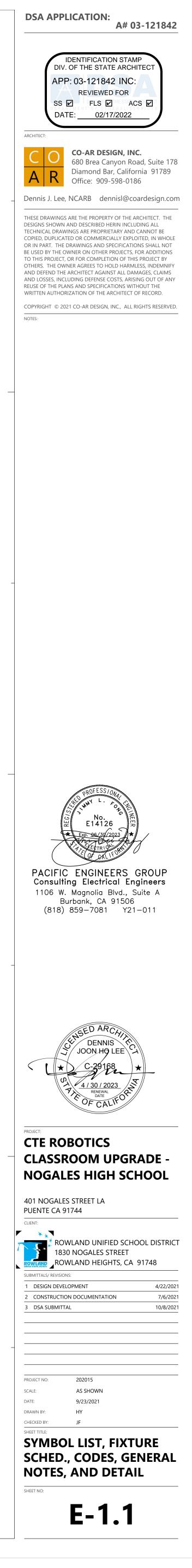
The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g., OSHPD OPM for 2013 CBC or later), copies of the bracing system installation guide or manual shall 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 - Option 1: Detailed on the approved drawings with project specific notes and details. MP MD PP E - Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM #) □ □ □ □ #____.



TYPICAL MOUNTING HEIGHTS ABOVE FINISHED FLOOR (UNLESS OTHERWISE NOTED ON DRAWINGS) LIGHT SWITCHES, DIMMER SWITCHES, FIRE ALARM PULL STATION, DUCT DETECTOR TEST PANEL, INTERCOM CALL SWITCH, SPEAKER VOLUME CONTROL, T-STATS, BY-PASS TIMER, WALL TELEPHONE. +18" ALL DUPLEX RECEPTACLES, WALL OUTLET FOR DESK TELEPHONE, COMPUTER OUTLET,

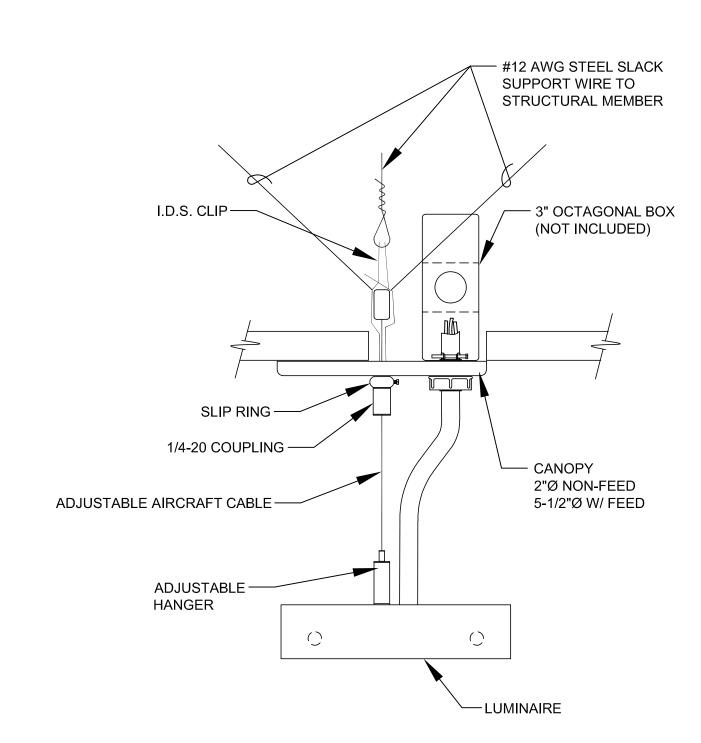
TO BOTTOM UNLESS OTHERWISE NOTED.

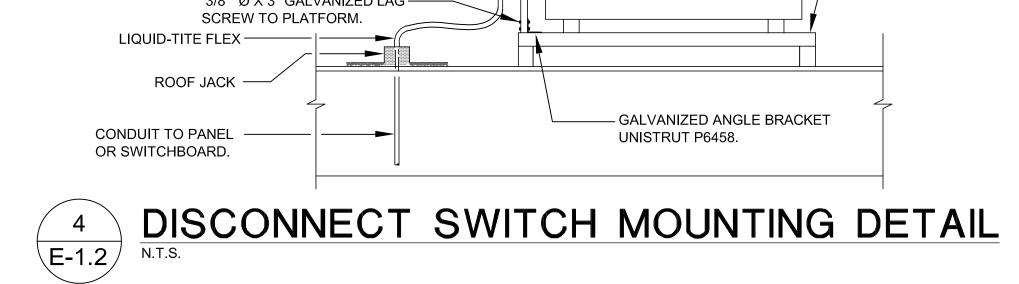


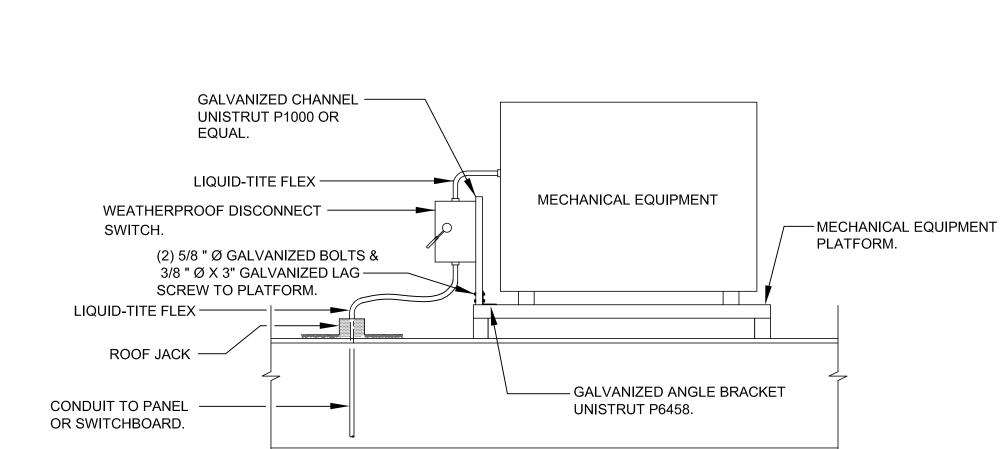
		(F	RELO	CATED)						N BRK:	90 AMP	S, 3 POLI	E	
3 PHASE 4 WIRE							STOR MATC			6				
LOCATION	WATTAGE PH-A PH-B	E PH-C	LTG	REC MIS	CIR	BKR		BKR	CIR	MIS	REC	LTG	PH-A	WAT PH-
SPARE SPARE				SPF SPF	_	20-1 20-1	-	20-1 20-1	2 4	1 1			1500	150
FCPS SPARE		1000		SPF	5 ₹7 9	20-1 20-3	_\$ 	20-1 20-1 20-1	6 8 10		1 2 2		360	360
SPARE				- SPF	11	- 15-3	-	20-1 20-1	10 12 14		2			
 				 - SPF	15 17 ₹ 19	- - 20-3	-	20-1 20-1 20-1	16 18 20					
SPARE				-	21 23	-	-	20-1 20-1	20 22 24					
SPARE				SPF -	₹ 25 27 29	20-3 -	-	20-3	26 28 30					
				SPF	_	20-3	-	20-3	30 32 34					
SPARE SPARE				- SPF		 20-1 20-1	- ,	* 40-3	36 38 40	1			3360	336
SPARE					41	20-1	-	-	40	-				
PH-A= 5220 VA TOTAL CONNECTED LOAD: 15360			4	12.67 AMI	I-B= РЅ @	5220) 120/2	VA 208 VOL1	rs –	3 PH	ASE				
LCL: 0 VA X FDL: 15360 VA +	1.25% 0 VA (LC	= CL) =		0 VA 15360	VA	OR		42.67	A					
		>L , .t.s.		VIE	W	 ! -								
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TYF	PVC CONDUIT.	<u> </u>	///N.			– PVC NG. OL	coatee JNC	RIGID		N		IT		
TYF	PVC CONDUIT.	<u> </u>	///N.			– PVC NG. OL	coatee JNC	RIGID		N	DUI	IT		
6 TYF INS	PVC CONDUIT.	<u> </u>	///N.			- PVC NG. OL EF	DOATEE					IT .AE		
6 TYF 6 N.T.S.	PVC CONDUIT.	U	///N.	ERG N UN		- PVC NG. OL EF		D RIGID		N R SS P/		T OF		
6 F 6 E 1.0 E 0 N.T.S.	PVC CONDUIT.	U	///N.	ERG N UN		- PVC NG. OL EF		ALL REC		ON R ACLE II SS P/	DUI SL N FRONT ANEL	T OF		
6 E-1.2 ↓ 18" FROM ↓ 18" FROM	PVC CONDUIT. PICAL TALLA	U	///N.	ERG N UN		- PVC NG. OL EF		ALL REC ALL REC ALL REC EATHEF COVEF GID PIP		ON R ACLE II SS P/ DF RE	DUI SL N FRONT ANEL	T OF		
6 E-1.2 ↓ 18" FROM ↓ 18" FROM	PVC CONDUIT. PICAL TALLA	U	///N.	ERG N UN		- PVC NG. OL EF		ALL REC ALL RE		DF RE	DUI SL N FRONT ANEL	AE	3	
6 F 6 E 1.0 E 0 N.T.S.	PVC CONDUIT. PICAL TALLA	U	///N.	ERG N UN		- PVC NG. OL EF		ALL REC ALL RE	CEPTA ACCE RPROG PE COI AMP/ I N. GA SKIR ⁻ SKIR ⁻ W/ 4-3	DF RE	DUI SL NFRONT ANEL CEPTAC BRAND HEET MET ED TO PI LAG SCR	TAL STOR	3	
6 F 6 E 1.0 E 0 N.T.S.	PVC CONDUIT. PICAL TALLA TALLA M TOP THING T CONNECTOR T CONNECTOR 6"	U		ERG N UN		- PVC NG. OL EF		ALL REC ALL RE	CEPTA ACCE RPROG PE COI AMP/ I N. GA SKIR AMP/ I N. GA SKIR LATE V W/ 4-3	DF RE	DUI SL SL NFRONT ANEL CEPTAC BRAND HEET MET LAG SCR BLOCK/	TAL STOR	3	
6 F 6 E 1.0 E 0 N.T.S.	PVC CONDUIT. PICAL TALLA TALLA M TOP THING T CONNECTOR T CONNECTOR 6"	<u> </u>		ERG N UN		- PVC NG. OL EF		ALL REC ALL RE	CEPTA ACCE RPROG PE COI AMP/ I N. GA SKIR AMP/ I N. GA SKIR LATE V W/ 4-3	DF RE	DUI SL SL NFRONT ANEL CEPTAC BRAND HEET MET LAG SCR BLOCK/	TAL STO	3	
6 F 6 E 1.0 E	PVC CONDUIT. PICAL TALLA TALLA M TOP THING T CONNECTOR T CONNECTOR 6"	<u> </u>		ERG N UN		- PVC NG. OL EF		ALL REC ALL RE	CEPTA ACCE RPROG PE COI AMP/ I N. GA SKIR AMP/ I N. GA SKIR LATE V W/ 4-3	DF RE	DUI SL SL NFRONT ANEL CEPTAC BRAND HEET MET LAG SCR BLOCK/ A	TAL STO	3	
6 F 6 E 1.0 E 0 N.T.S.	PVC CONDUIT. PICAL TALLA M TOP THING T CONNECTOR 6" MIN.			ERG NUN		- PVC NG. OL EF		ALL REC ALL RE	CEPTA ACCE RPROG PE COI AMP/ I N. GA SKIR AMP/ I N. GA SKIR LOCK	DF RE	DUI SL SL NFRONT ANEL CEPTAC BRAND HEET MET LAG SCR BLOCK/ A	TAL STO	3	
6 F 6 F 10° F	PVC CONDUIT. PICAL TALLA M TOP THING T CONNECTOR 6" MIN.			ERG N UN		- PVC NG. OL EF		ALL REC ALL	CEPTA ACCE RPROG PE COI AMP/ I N. GA SKIR ¹ AMP/ I N. GA SKIR ¹ LOCK	N R R R R R R R R R R R R R R R R R R R	DUI SL SL NFRONT ANEL CEPTAC BRAND HEET ME LAG SCR BLOCK/ SIDE	TAL STO	3	
6 E-1.2 TYF 0 18" FRON 0 N.T.S.	PVC CONDUIT. PICAL TALLA M TOP THING T CONNECTOR 0 0 0 0 0 0 0 0 0 0 0 0 0			ERG NUN				ALL REC ALL	CEPTA ACCE RPROG PE COI AMP/ I N. GA SKIR AMP/ I N. GA SKIR LOCK DENS	ORAW LV, SH NELD 3/8"Ø I INTO ING, 1 -DECI	DUI SL SL NFRONT ANEL CEPTAC BRAND HEET ME ED TO PI LAG SCR BLOCK/ SIDE	AE TAL STO LATE REW 2" JOIST	3	Α
6 E-1.2 TYF 0 18" FROM 0 18" FROM 0 18" FROM 0 58 FROM SEAL TIGHT BATT INSULATION (E) ROOF SHEATHING	PVC CONDUIT. PICAL TALLA A TOP THING T CONNECTOR NG NG RO NG RO N.T.S.							ALL REC ALL		ORAW LV, SH NELD 3/8"Ø I INTO ING, 1 -DECI	DUI SL SL NFRONT ANEL CEPTAC BRAND HEET ME ED TO PI LAG SCR BLOCK/ SIDE	AE TAL STO LATE REW 2" JOIST	3	



PENDANT MOUNTED LIGHTING FIXTURE N.T.S.



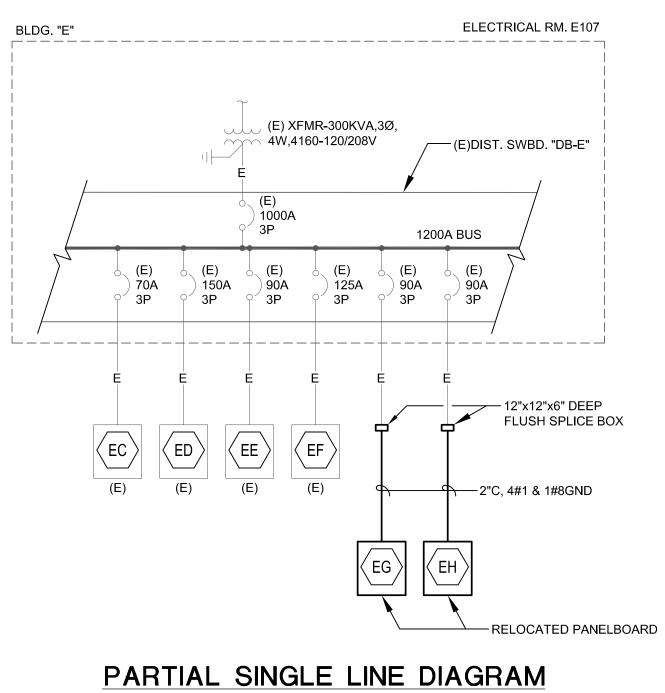


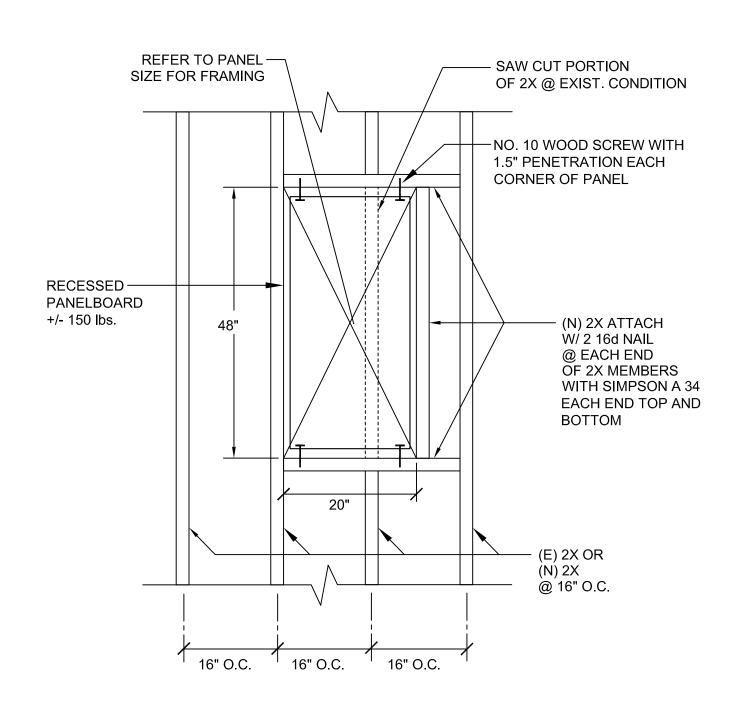


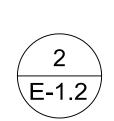
US R/	ATING: 225A
OUN.	TING: FLUSH
	LOCATION
чн-с	200/1101
	HAND DRYER, TOILET M-20
	HAND DRYER, TOILET M-21
200	ROOF OUTLET
	TOILET M-21, M-20
	RECEPTACLE OFF. M-17
360	RECEPTACLE OFF. M-17
	SPARE
	SPARE
	RTU-02
360	
	4000 1/4
H-C=	= 4920 VA

120/208 VOLTS			(RELOCATED) PAN								MAIN	N BRK:	70 AMPS	6, 3 POL	.E		BUS R	ATING: 225A
3 PHASE							LOC	ATION:	STORA	STORAGE RM M-14								
4 WIRE	FF														MOUN	TING: FLUSH		
4 WIRE	FEEDER: MATCH TO EXISTING MOUNT						TING. FLOSH											
LOCATION		WATTA	GF	LTG	REC	REC MIS CIR BKR				BKR	CIR	R MIS	REC LT	LTG		WATTA	GE	LOCATION
	PH-A	PH-B	PH-C		1120		0	Drut			0				PH-A	PH-B	PH-C	
LTG. CLASSROOM M-22	729			30		1	1	20-1		20-1	2		1		300			RECEPTACLE, CR M-22
LTG. CLASSROOM M-22		729		30		1	3	20-1		20-1	4		1			300		RECEPTACLE, CR M-22
LTG. STO. OFF. RESTROOM			216	9			5	20-1		20-1	6		2				600	RECEPTACLE, CR M-22
RECEPTACLE, CR M-22	300				1		7	20-1	* *	20-1	8		2		600			RECEPTACLE, CR M-22, STO.
RECEPTACLE, CR M-22		300			1		9	20-1	* *	20-1	10		2			600		RECEPTACLE, CR M-22
(N) LDF			600		1		11	20-1	* *	20-1	12		1				300	RECEPTACLE, CR M-22
SPARE						SPR	13	20-3	*	20-1	14		3		900			RECEPTACLE, CR M-22
						-	15	-	*	20-1	16		2			600		RECEPTACLE, CR M-22
						-	17	-	*	20-2	18		1				1000	208 VOLTS RECEPTACLE
SPARE						SPR	19	20-3		-	20		-		1000			
						-	21	-	*	20-2	22		1			1000		208 VOLTS RECEPTACLE
						-	23	-		-	24		-				1000	
SPARE						SPR	25	20-3		20-1	26		1		300			RECEPTACLE, CR M-22
						-	27	-		20-1	28		1			300		RECEPTACLE, CR M-22
						-	29	-		20-1	30		1				300	RECEPTACLE, CR M-22
RECEPTACLE, CR M-22	600				2		31	20-1		20-1	32		1		300			RECEPTACLE, CR M-22
RECEPTACLE, CR M-22		600			3		33	20-1		20-1	34		1			300		RECEPTACLE, CR M-22
RECEPTACLE, CR M-22			900		3		35	20-1		20-1	36		1				300	RECEPTACLE, CR M-22
RECEPTACLE, CR M-22	600				2		37	20-1		20-1	38		2		360			RECEPTACLE, OFF. M-17
SPARE							39	20-1		20-1	40		2			360		RECEPTACLE, OFF. M-17
SPARE							41	20-1		20-1	42		1				500	PROJECTOR
PH-A= 5989 VA						PH-	B=	5089	VA								PH-C=	= 5716 VA
TOTAL CONNECTED LOAD: 16794	VA	(OR		46.65	AMPS	S @	120/20	08 VOLT	s	3 PH	ASE						
LCL: 1674 VA X	1.25%		=		2092.5	VA												
FDL: 15120 VA +	2093	VA (I	LCL) =		17213		VA	OR		47.81	А							

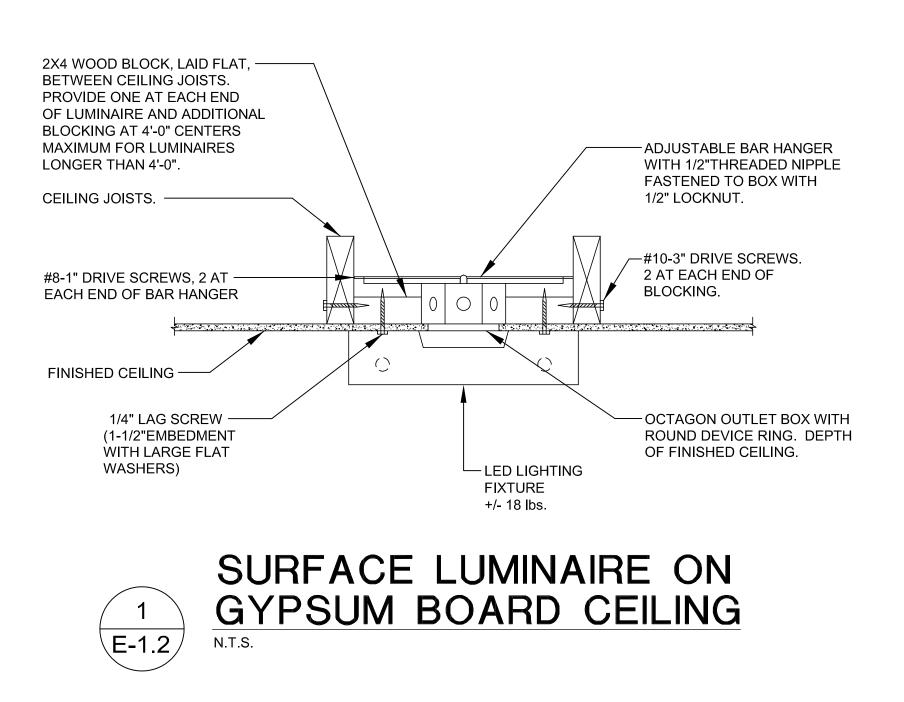
* - REMOVE AND REPLACE (3) 3 POLE, 20 AMPS WITH (5) 1 POLE, 20 AMPS AND (2) 2 POLE, 20 AMPS CIRCUIT BREAKER. MATCH TYPE AND A.I.C. RATING.

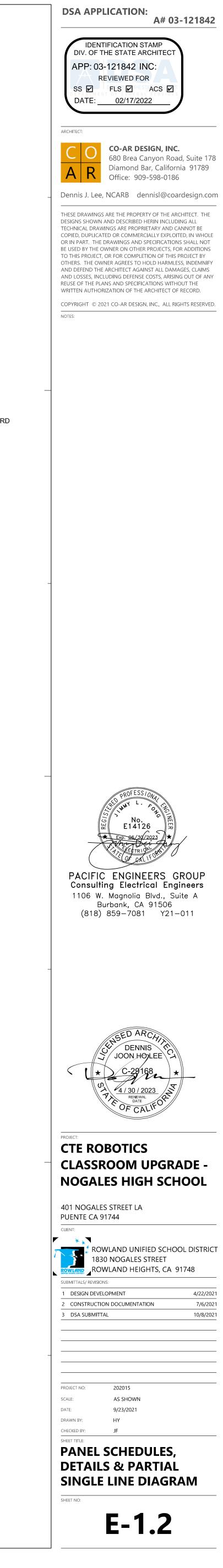






TYP. ELECTRICAL PANELBOARDS/SIGNAL 2 E-1.2 PANEL OR CABINETS, FLUSH MOUNTED





STATE OF CALIFO	RNIA
Indoor Lig	hting

NRCC-LTI-E (Created	04/21)
CERTIFICA	ATE OF	COM

NRCC-LTI-E (Created 0												CA	LIFORNIA ENI	ERGY COMMISS	
CERTIFICATE OF C	COMPLIANCE														NRCC-LTI-E
This document is prescriptive path.		trate compliance	e with requireme	ents in <u>§110.9</u> , <u>§</u>	<u> </u>	<u>.0.12(c), §1</u>	<u>130.0</u> , <u>9</u>	<u>§13(</u>	<u>0.1</u> , <u>§140.6</u> , an	nd <u>§141.0(b)</u>	<u>2</u> for 1	indoor lig	ghting scop	es using the	
		PROGRAM - NOC		IOOL				-	t Page:						Page 1 of 7
Project Address:	401 NOGALES S	TREET, LA PUEN	TE CA. 91744				Da	ite P	Prepared:					SEPTEME	ER 9, 2021
A. GENERAL INF	ORMATION														?
01 Project Loca	tion (city)		LA P	UENTE		04	Total (Con	ditioned Floor	Area (ft ²)			3,	537	
02 Climate Zon	e			9		05	Total I	Unc	onditioned Flo	or Area (ft ²)		•		
03 Occupancy T	Types Within Pro	oject (select all t	hat apply):			06	# of St	torie	es (Habitable A	bove Grade	2)		i	1	
Office		Retail		Warehouse			Hote	I/M	otel 🗸	/ School			Supp	ort Areas	
Parking Ga	rage	High-Rise Res	sidential	Relocatable			Healt	thca	re	Other (w	rite ir	n):			
B. PROJECT SCO	PE														?
Table Instructions	: Include any lig	hting systems th	nat are within th	e scope of the p	err	mit applica	ition ar	nd a	re demonstrat	ting complia	ince u	sing the	prescriptiv	e path outlin	ed in
<u>§140.6</u> or <u>§141.0(</u>				lculation Metho	od i	in this tabl	e will r	esui	lt in the deletic	on of data p	reviou	sly inpu	t. If you ne	ed to chang	e the
calculation metho			se "Save As".												
	Scope	e of Work					tioned	Spa					onditioned	Spaces	
		01				02			03			04			05
My F	Project Consists	of (check all tha	t apply):	C	alcı	ulation Me	thod		Area (ft	²)	Cal	culation	Method	Ar	ea (ft ²)
✓ New Lighting	g System			0	Com	nplete Buil	ding		0						
Altered Light	ting System				Area Category					,					
						0-			3,537						
		To	tal Area of Wor	k (ft²)			3,537	'							
C. COMPLIANCE															?
Table Instructions		his table says "D	OES NOT COMP	LY" or "COMPLI	ES	with Excep	otional	Con	ditions" refer	to Table D.	for gu	idance.			
			ting Power per §						Adjusted Ligh		-		(Watts)	Complian	ce Results
Lighting in	01	02	03	04	Ť	05			06				08	. 0	
conditioned and					1						ustments			03	
unconditioned	Complete		Area Category	Tailored					Total	PAF Cont					
spaces must not	Building	Area Category	Additional	<u>§140.6(c)3</u>	=	Total All	owed	≥	Designed	Credit			-	05 Must	:be≥08
be combined for compliance per	<u>§140.6(c)1</u>	<u>§140.6(c)2</u>	<u>§140.6(c)2G</u>	(+)		(Wat			(Watts)	§140.6(a			cludes	§14	
§140.6(b)1.			(+)				·			(-)		Adju	stments		
<u>j1/0/0/0/1</u> .	(See Table I)	(See Table I)	(See Table J)	(See Table K)	1				(See Table F)	(See Tabl	e P)				
Conditioned:	61.1	2,341.9			=	2,40	3	≥	1,674.1			= 1,	674.1	COM	PLIES
Unconditioned:					=	:		≥				=			
Table Continued															
CA Building Energy	Efficiency Standa	rds - 2019 Nonresi	idential Compliand	ce: http://www.e	ner	gy.ca.gov/t	itle24/2	2019	standards						April 2021
STATE OF CALIFORNIA															TO OF CALIFOR
Indoor Light	•											CA		ERGY COMMISS	
CERTIFICATE OF C												CA			NRCC-LTI-E
		PROGRAM - NOC	GALES HIGH SCH	IOOL			Re	por	t Page:				8		Page 4 of 7
									-						-
Project Address:	401 NOGALES S	TREET, LA PUEN	TE CA. 91744				Da	ite P	repared:					SEPTEIVIE	ER 9, 2021
	401 NOGALES S	TREET, LA PUEN	TE CA. 91744	02			Da		03	04		05		06	ER 9, 2021

01	02	03	04	05	0	6	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density	Area (ft²)	Allowed Wattage	Additional Allowances / Adjustment		
	Thinki y Function Area	(W/ft ²)	(10)	(Watts)	Area Category	PAF	
CLASSROOM	Classroom, Lecture, Training, Vocational	0.7	3,069	2,148.3			
STORAGE	All Other Space Types	0.4	198	79.2			
RESTROOMS	Restroom	0.65	176	114.4			
OFFICE	School Building	0.65	94	61.1			
		TOTAL:	3,537	2,403	See Tables J o	or P for detail	

J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This Section Does Not Apply

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS This Section Does Not Apply

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

This Section Does Not Apply

STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E (Created 04/21) CALIFORNIA ENERGY COMMISSIO CERTIFICATE OF COMPLIANCE NRCC-LTI-E Project Name: CTE ROBOTICS PROGRAM - NOGALES HIGH SCHOOL Report Page: Page 7 of 7 Project Address: 401 NOGALES STREET, LA PUENTE CA. 91744 SEPTEMBER 9, 2021 Date Prepared: **DOCUMENTATION AUTHOR'S DECLARATION STATEMENT** I certify that this Certificate of Compliance documentation is accurate and complete Documentation Author Signature: Documentation Author Name: Jimmy L. Fong Pacific Engineers Group Signature Date: AUGUST 24,2021 🧹 Company: 1106 W. Magnolia Blvd, Suite A CEA/ HERS Certification Identification (if applicable): Address: City/State/Zip: Burbank, CA 91506 818-859-7081 Phone: **RESPONSIBLE PERSON'S DECLARATION STATEMENT** I certify the following under penalty of perjury, under the laws of the State of California: 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 Certificate of Compliance (responsible designer) 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

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 made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy. Responsible Designer Signature: Responsible Designer Name: limmy L. Fong

Responsible Designer Name.	Jinning L. Folig	Responsible Designer Signature.		1	100
Company :	Pacific Engineers Group	Date Signed:	(AUGUST/24,2021	~ 0
Address:	1106 W. Magnolia Blvd., Suite A	License:		E14126	
City/State/Zip:	Burbank, CA 91506	Phone:	8	18-859-7081	

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

STATE OF CALIFORNIA

April 2021

	me: CTE ROBOTICS PROGRAM - NO				Report Page:					ige 2
Project Ad	dress: 401 NOGALES STREET, LA PUE	NTE CA. 91744			Date Prepared	1:		SE	PTEMBE	R 9,
					rols Compliance (S		-	COMPLI		
			Rated	Power Reduct	ion Compliance (S	ee Table Q for I	Details)	Not Applic	able	
D. EXCEPT	TIONAL CONDITIONS									
This table i	is auto-filled with uneditable commer	nts because of s	elections made o	r data entered	l in tables through	out the form.		1		
No excepti	ional conditions apply to this project.									
E. ADDITI	ONAL REMARKS									
This table i	includes remarks made by the permit	applicant to th	e Authority Havin	g Jurisdiction.						
1			1			1		1		
	R LIGHTING FIXTURE SCHEDULE	111 1								
	ructions: Include all permanent design Wattage: Conditioned Spaces	ned lighting and	d all portable light	ting in offices.						
01	02	03	04	05	06	07	08	09	1	.0
Name or		Modular	Small Aperture	Watts per	How Wattage is	Total number	Exempt per		Field In	spe
Item Tag	Complete Luminaire Description		& Color Change ¹	luminaire ²	determined	luminaires	<u>§140.6(a)3</u>	Design Watts	Pass	F
A/AE	8"x4' PENDANT , LED			24.3	Mfr. Spec ²	63		1,530.9		
A1	8"x4' PENDANT, LED			31.6	Mfr. Spec ²	2		63.2		
В	10"x4' SURFACE, LED			20	Mfr. Spec ²	4		80		
FOOTNOT	TE: Design Watts for small aperture a	-	-		Total Designed	d Watts CONDIT			F automa	itica
¹ FOOTNOT makes this ² Authority		ould enter full i	rated wattage in a	olumn 05.	Total Designed	ljusted to be 75%	% of their rated	wattage. Table I		
¹ FOOTNOT makes this ² Authority luminaire,	TE: Design Watts for small aperture a adjustment, the permit applicant sh v Having Jurisdiction may ask for Lum	ould enter full i	rated wattage in a	olumn 05.	Total Designed	ljusted to be 75%	% of their rated	wattage. Table I		
¹ FOOTNOT makes this ² Authority luminaire, G. MODU	TE: Design Watts for small aperture a adjustment, the permit applicant sh v Having Jurisdiction may ask for Lum not the lamp.	ould enter full i	rated wattage in a	olumn 05.	Total Designed	ljusted to be 75%	% of their rated	wattage. Table I		
¹ FOOTNOT makes this ² Authority luminaire, G. MODU This Sectio	TE: Design Watts for small aperture a adjustment, the permit applicant sho Having Jurisdiction may ask for Lum not the lamp. HAR LIGHTING SYSTEMS IN Does Not Apply	ould enter full i inaire cut shee	rated wattage in a	olumn 05.	Total Designed	ljusted to be 75%	% of their rated	wattage. Table I		
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¹ FOOTNOT makes this ² Authority luminaire, G. MODU This Sectio H. INDOO	TE: Design Watts for small aperture a s adjustment, the permit applicant sho y Having Jurisdiction may ask for Lum not the lamp. PLAR LIGHTING SYSTEMS on Does Not Apply OR LIGHTING CONTROLS (Not Inclu	ould enter full i inaire cut sheet uding PAFs)	rated wattage in c ts to confirm watt	column 05. age used for a	Total Designed r <u>§140.6(a)4B</u> is aa compliance per <u>§13</u>	ljusted to be 759 <u>30.0(c)</u> Wattage	% of their rated	wattage. Table I	ed for the	2
¹ FOOTNOT makes this ² Authority luminaire, G. MODU This Sectio H. INDOO	TE: Design Watts for small aperture a adjustment, the permit applicant sho Having Jurisdiction may ask for Lum not the lamp. HAR LIGHTING SYSTEMS IN Does Not Apply	ould enter full i inaire cut sheet uding PAFs)	rated wattage in c ts to confirm watt	column 05. age used for a	Total Designed r <u>§140.6(a)4B</u> is aa compliance per <u>§13</u>	ljusted to be 759 <u>30.0(c)</u> Wattage	% of their rated	wattage. Table I	ed for the	2
¹ FOOTNOT makes this ² Authority luminaire, G. MODU This Sectio H. INDOO CA Building	TE: Design Watts for small aperture a s adjustment, the permit applicant sho y Having Jurisdiction may ask for Lum not the lamp. PLAR LIGHTING SYSTEMS on Does Not Apply PR LIGHTING CONTROLS (Not Inclu Energy Efficiency Standards - 2019 Nonro	ould enter full i inaire cut sheet uding PAFs)	rated wattage in c ts to confirm watt	column 05. age used for a	Total Designed r <u>§140.6(a)4B</u> is aa compliance per <u>§13</u>	ljusted to be 759 <u>30.0(c)</u> Wattage	% of their rated	wattage. Table I	ed for the	2
¹ FOOTNOT makes this ² Authority luminaire, G. MODU This Sectio H. INDOO CA Building	TE: Design Watts for small aperture a s adjustment, the permit applicant sho y Having Jurisdiction may ask for Lum not the lamp. PLAR LIGHTING SYSTEMS on Does Not Apply PR LIGHTING CONTROLS (Not Incl Energy Efficiency Standards - 2019 Nonro	ould enter full i inaire cut sheet uding PAFs)	rated wattage in c ts to confirm watt	column 05. age used for a	Total Designed r <u>§140.6(a)4B</u> is aa compliance per <u>§13</u>	ljusted to be 759 <u>30.0(c)</u> Wattage	% of their rated	wattage. Table I	ed for the	2
¹ FOOTNOT makes this ² Authority luminaire, G. MODU This Sectio H. INDOO CA Building STATE OF CAL Indoor I	TE: Design Watts for small aperture a s adjustment, the permit applicant sho y Having Jurisdiction may ask for Lum not the lamp. PLAR LIGHTING SYSTEMS on Does Not Apply PR LIGHTING CONTROLS (Not Inclu Energy Efficiency Standards - 2019 Nonro	ould enter full i inaire cut sheet uding PAFs)	rated wattage in c ts to confirm watt	column 05. age used for a	Total Designed r <u>§140.6(a)4B</u> is aa compliance per <u>§13</u>	ljusted to be 759 <u>30.0(c)</u> Wattage	6 of their rated was be th	wattage. Table I	ed for the	e April 2
¹ FOOTNOT makes this ² Authority luminaire, G. MODU This Sectio H. INDOO CA Building STATE OF CAL INDOOR I NRCC-LTI-E (C CERTIFICA	TE: Design Watts for small aperture a s adjustment, the permit applicant sho y Having Jurisdiction may ask for Lum not the lamp. DLAR LIGHTING SYSTEMS on Does Not Apply PR LIGHTING CONTROLS (Not Inclusion) Energy Efficiency Standards - 2019 Nonro LIFORNIA LIFORNIA Lighting Created 04/21) TE OF COMPLIANCE	ould enter full i inaire cut sheet uding PAFs) esidential Compl	iance: http://www.	column 05. age used for a	Total Designed r <u>§140.6(a)4B</u> is an compliance per <u>§13</u>	ljusted to be 759 <u>30.0(c)</u> Wattage	6 of their rated was be th	wattage. Table I ne maximum rate	ed for the	April 2
¹ FOOTNOT makes this ² Authority luminaire, G. MODU This Sectio H. INDOO CA Building STATE OF CAL INDOOT I NRCC-LTI-E (C CERTIFICA Project Na	TE: Design Watts for small aperture a s adjustment, the permit applicant sho y Having Jurisdiction may ask for Lum not the lamp. PLAR LIGHTING SYSTEMS on Does Not Apply PR LIGHTING CONTROLS (Not Inclusion) Energy Efficiency Standards - 2019 Nonro LIFORNIA Lighting Created 04/21) TE OF COMPLIANCE me: CTE ROBOTICS PROGRAM - No	ould enter full i inaire cut sheet uding PAFs) esidential Compl	iance: http://www.	column 05. age used for a	Total Designed r <u>\$140.6(a)4B</u> is an compliance per <u>\$13</u> itle24/2019standarc	ljusted to be 759 30.0(c) Wattage	6 of their rated was be th	ALIFORNIA ENERGY C	ed for the	spril 2
¹ FOOTNOT makes this ² Authority luminaire, G. MODU This Sectio H. INDOO CA Building STATE OF CAL Indoor I NRCC-LTI-E (C CERTIFICA Project Nat Project Add	TE: Design Watts for small aperture a sadjustment, the permit applicant sho y Having Jurisdiction may ask for Lum not the lamp. PLAR LIGHTING SYSTEMS on Does Not Apply PR LIGHTING CONTROLS (Not Inclu- Energy Efficiency Standards - 2019 Nonro LIFORNIA Lighting Created 04/21) TE OF COMPLIANCE me: CTE ROBOTICS PROGRAM - No dress: 401 NOGALES STREET, LA PUE	ould enter full i inaire cut sheet uding PAFs) esidential Compl DGALES HIGH S INTE CA. 91744	iance: http://www.	column 05. age used for a	Total Designed r <u>§140.6(a)4B</u> is an compliance per <u>§13</u>	ljusted to be 759 30.0(c) Wattage	6 of their rated was be th	ALIFORNIA ENERGY C	ed for the	spril 2
¹ FOOTNOT makes this ² Authority luminaire, G. MODU This Sectio H. INDOO CA Building STATE OF CAL INDOO I NRCC-LTI-E (C CERTIFICA Project Nat Project Add Q. RATED	TE: Design Watts for small aperture a s adjustment, the permit applicant sho y Having Jurisdiction may ask for Lum not the lamp. DLAR LIGHTING SYSTEMS on Does Not Apply PR LIGHTING CONTROLS (Not Inclusion Energy Efficiency Standards - 2019 Nonro LIFORNIA Lighting Created 04/21) TE OF COMPLIANCE me: CTE ROBOTICS PROGRAM - No dress: 401 NOGALES STREET, LA PUE POWER REDUCTION COMPLIANCE	ould enter full i inaire cut sheet uding PAFs) esidential Compl DGALES HIGH S INTE CA. 91744	iance: http://www.	column 05. age used for a	Total Designed r <u>\$140.6(a)4B</u> is an compliance per <u>\$13</u> itle24/2019standarc	ljusted to be 759 30.0(c) Wattage	6 of their rated was be th	ALIFORNIA ENERGY C	ed for the	April :
¹ FOOTNOT makes this ² Authority luminaire, G. MODU This Sectio H. INDOO CA Building STATE OF CAL INDOO I NRCC-LTI-E (C CERTIFICA Project Nat Project Add Q. RATED	TE: Design Watts for small aperture a sadjustment, the permit applicant sho y Having Jurisdiction may ask for Lum not the lamp. PLAR LIGHTING SYSTEMS on Does Not Apply PR LIGHTING CONTROLS (Not Inclu- Energy Efficiency Standards - 2019 Nonro LIFORNIA Lighting Created 04/21) TE OF COMPLIANCE me: CTE ROBOTICS PROGRAM - No dress: 401 NOGALES STREET, LA PUE	ould enter full i inaire cut sheet uding PAFs) esidential Compl DGALES HIGH S INTE CA. 91744	iance: http://www.	column 05. age used for a	Total Designed r <u>\$140.6(a)4B</u> is an compliance per <u>\$13</u> itle24/2019standarc	ljusted to be 759 30.0(c) Wattage	6 of their rated was be th	ALIFORNIA ENERGY C	ed for the	spril 2
¹ FOOTNOT makes this ² Authority luminaire, G. MODU This Sectio H. INDOO CA Building STATE OF CAL Indoor I NRCC-LTI-E (C CERTIFICA Project Nat Project Nat Project Nat Q. RATED This Sectio	TE: Design Watts for small aperture a s adjustment, the permit applicant sho y Having Jurisdiction may ask for Lum not the lamp. DLAR LIGHTING SYSTEMS on Does Not Apply PR LIGHTING CONTROLS (Not Inclusion Energy Efficiency Standards - 2019 Nonro LIFORNIA Lighting Created 04/21) TE OF COMPLIANCE me: CTE ROBOTICS PROGRAM - No dress: 401 NOGALES STREET, LA PUE POWER REDUCTION COMPLIANCE	ould enter full i inaire cut sheet uding PAFs) esidential Compl DGALES HIGH S INTE CA. 91744 CE FOR ALTEF	iance: http://www.	column 05. age used for a	Total Designed r <u>\$140.6(a)4B</u> is an compliance per <u>\$13</u> itle24/2019standarc	ljusted to be 759 30.0(c) Wattage	6 of their rated was be th	ALIFORNIA ENERGY C	ed for the	April :

T. DECLARA	DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION										
Table E. Add	able Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in able E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at <u>https://ww2.energy.ca.gov/</u> tle24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/										
YES	YES NO Form/Title Field Inspector										
			Pass	Fail							
۲	0	NRCI-LTI-01-E - Must be submitted for all buildings									
0		NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.									
0		NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.									
0	O	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.									
0	۲	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.									

April 2021

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

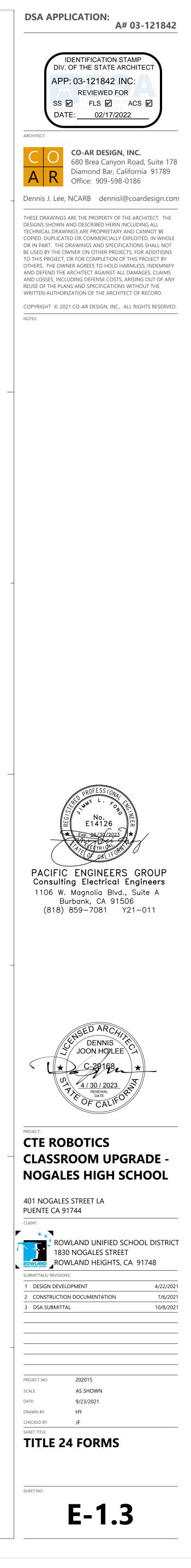
April 2021

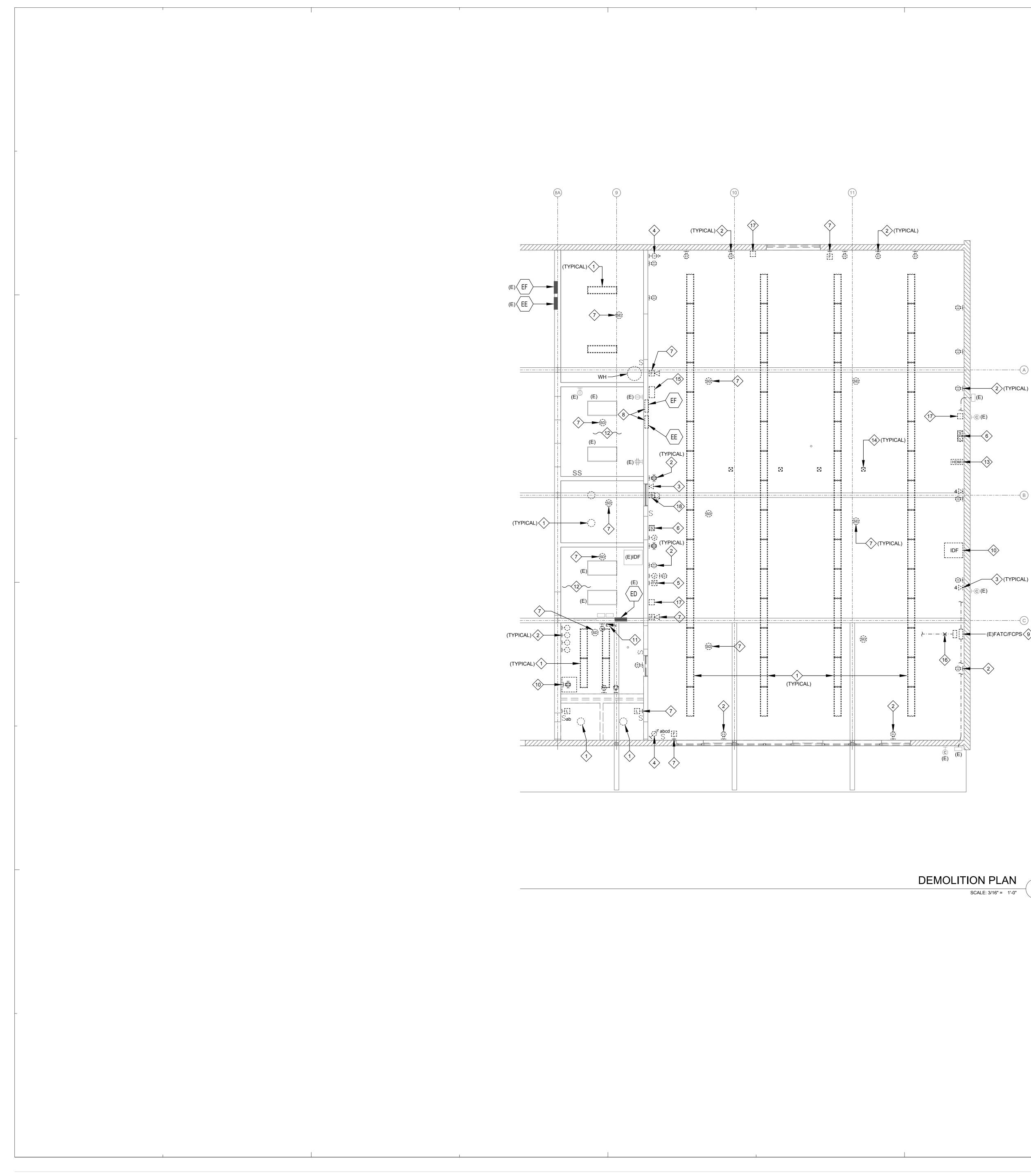
) IPLIANCE					CALI	ORNIA ENERGY		RCC-LTI-
Project Name: CTE	ROBOTICS PROGRAM - NOGALES HIGH	SCHOOL		Report Page:				Pa	ge 3 of
roject Address: 401	NOGALES STREET, LA PUENTE CA. 9174	14		Date Prepared:			SI	EPTEMBE	R 9, 202
nust be completed. T	ease include lighting controls for conditi The lighting controls section of the Comp							on of this	table
Building Level Contro									
	01				02			03	
	Mandatory Demand Response				Off Controls			Field Ins	
	<u>§110.12(c)</u>			<u>81</u>	<u>L30.1(c)</u>			Pass	Fail
Area Level Controls									
04	05	06	07	08	09	10	11	1	2
			Multi-Level	Shut-Off	Primary/Skylit	Secondary	Interlocked		
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Controls §130.1(b)	Controls §130.1(c)	Daylighting §130.1(d)	Daylighting §140.6(d)	Systems <u>§140.6(a)1</u>	Field Ir Pass	spector Fail
CLASSROOM	SchoolBuildingg	Manual ON/ OFF	Dimmer	Occ. Sensor	NAA	NAA			
STORAGE	SchoolBuilding	Manual ON/ OFF	Bi-levelSwitch	Occ.Sensopr	NAA	NAA			
RESTROOM	SchoolBuildingg	Manual ON/ OFF	Bi-levelSwitch	Occ.Sensopr	NAA	NAA			
OFFICE	SchoolBuildingg	Manual ON/ Manual ON/ OFF	Bi-levelSwitch	Occ.:Sensonr	NAA	NA			
X: Conference 1: Prir XCEPTION 1 to <u>§130</u>	mary/Skylight Daylighting: Exempt beca . <u>1(d)2</u>	use less than 120	watts of general lig	ghting;	P	an Sheet Show	ving Daylit Zo	nes:	
	R ALLOWANCE: COMPLETE BUILDIN				ada may \$1.40 <i>C</i> /b) Indianta if a	dditionalliab	ting	2
uble mstructions: Co	<u>6(c)</u> or adjustments per <u>\$140.6(a)</u> are be		iete building of An		ious per <u>9140.6[b</u>	<u>r</u> . maicate ij a		ling powe	:1
allowances per <u>§140.</u>				03	04	05		06	
allowances per <u>§140.</u> Conditioned Spaces		02					Additiona		ices /
allowances per <u>§140.</u> Conditioned Spaces 01	ation i	02 Building or Area C		Allowed Density	Area	Allowed Wattage		ustment	
allowances per <u>§140.</u> Conditioned Spaces	ation i				Area (ft²)	Wattage		ustment	PAF
allowances per <u>§140.</u> Conditioned Spaces 01 Area Descrip	Prin	Building or Area Ca nary Function Area	a	Density (W/ft ²)		Wattage	Adj	ustment ry I	
Ilowances per <u>§140.</u> onditioned Spaces 01 Area Descrip	ation i	Building or Area Ca nary Function Area	a	Density (W/ft ²)		Wattage	Adj	ustment ry I	
illowances per <u>§140</u> Conditioned Spaces 01 Area Descrip	Prin	Building or Area Ca nary Function Area	a	Density (W/ft ²)		Wattage	Adj	ustment ry I	
illowances per <u>§140</u> Conditioned Spaces 01 Area Descrip	Prin	Building or Area Ca nary Function Area	a	Density (W/ft ²)		Wattage	Adj	ustment ry I	PAF
Ilowances per <u>\$140.</u> onditioned Spaces 01 Area Descrip A Building Energy Effic	ciency Standards - 2019 Nonresidential Com	Building or Area Ca nary Function Area	a	Density (W/ft ²)		Wattage (Watts)	Adj Area Catego	ustment ry I	pril 202
Illowances per <u>§140.</u> conditioned Spaces 01 Area Descrip Area Descrip Area Descrip Area Descrip Record CALIFORNIA Andoor Lighting RCC-LTI-E (Created 04/21	Prin Prin Prin Prin Prin Prin Prin Prin	Building or Area Ca nary Function Area	a	Density (W/ft ²)		Wattage (Watts)	Adj	ustment ry I	opril 202
Allowances per <u>§140.</u> Conditioned Spaces 01 Area Descrip CA Building Energy Effic TATE OF CALIFORNIA INDOOR Lighting RCC-LTI-E (Created 04/21 CERTIFICATE OF COM	Prin Prin Diency Standards - 2019 Nonresidential Comp Diency Standards - 2019 Nonresidential Comp Diency Standards - 2019 Nonresidential Comp	Building or Area Ca nary Function Area pliance: <u>http://www</u>	a	Density (W/ft ²) 24/2019standards		Wattage (Watts)	Adj Area Catego	ustment ry I A COMMISSIC	N CC-LTI
Illowances per <u>§140.</u> conditioned Spaces 01 Area Descrip A Building Energy Effic TATE OF CALIFORNIA ndoor Lighting RCC-LTI-E (Created 04/21 CERTIFICATE OF COM roject Name: CTE	Prin Prin Prin Prin Prin Prin Prin Prin	Building or Area Canary Function Area pliance: <u>http://www</u>	a	Density (W/ft ²)		Wattage (Watts)	Adj Area Catego ORNIA ENERGY (ustment ry I A COMMISSIC	pril 202 N RCC-LTI ge 6 of

Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <u>http://www.energy.ca.gov/title24/attcp/providers.html</u> Field Inspector YES NO Form/Title Pass Fail 0 NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls. C \bigcirc NRCA-LTI-03-A - Must be submitted for automatic daylight controls. NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls. 0 • NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF). NRCA-ENV-03-F - Must be submitted for daylighting design power adjustment factors (PAF).

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

April 2021





DEMOLITION PLAN SCALE: 3/16" = 1'-0"

DEMOLITION KEYED NOTES	

1 DISCONNECT AND REMOVE LIGHTING FIXTURES, WALL SWITCHES INCLUDING WIRES, CONDUIT AND CONTROL WIRINGS UP TO PANELBOARD. DISCONNECT AND REMOVE RECEPTACLE OUTLETS INCLUDING WIRES AND CONDUIT UP TO PANELBOARD. PROVIDE COVER TO FLUSH BOX, CUT, CAP CONCEAL CONDUIT AND ABANDON IN PLACE. 3 DISCONNECT AND REMOVE DATA OUTLET INCLUDING RACEWAYS AND CABLE UP TO IDF CABINET. DISCONNECT AND REMOVE INTRUSION DETECTION DEVICES INCLUDING CONDUIT AND CABLES UP TO TERMINAL CABINET. 5 DISCONNECT AND REMOVE TV OUTLET INCLUDING CONDUIT AND CABLE UP TO TERMINAL CABINET. 6 DISCONNECT AND REMOVE CLOCK AND SPEAKERS INCLUDING WIRES AND CONDUIT UP TO ✓ TERMINAL CABINET. $\langle 7 \rangle$ CAREFULLY DISCONNECT, REMOVE AND REPLACE FIRE ALARM SMOKE DETECTORS, HEAT DETECTORS, HORN, STROBES AND PULL STATION. REMOVE AND REPLACE WIRES AND CONDUIT UP TO TERMINAL CABINET NEW LOCATION. SEE NEW FIRE ALARM PLAN SHEET FA-2.1. (8) CAREFULLY DISCONNECT, REMOVE AND RELOCATE PANELBOARDS, INTERCEPT AND EXTEND MAIN FEEDER CABLES VIA PULL BOX TO PANELBOARDS NEW LOCATION. FEEDER AND CONDUIT SIZE TO MATCH EXISTING. PATCH OPENING AND PAINT TO MATCH WALL COLOR. $\langle 9 \rangle$ CAREFULLY DISCONNECT, REMOVE AND RELOCATE FIRE ALARM POWER SUPPLY CONTROL PANEL (FCPS) AND TERMINAL CABINET. PULL BACK WIRES UP TO WALL MOUNTED EXTERIOR PULL BOX AND REMOVE CONDUIT. INTERCEPT AND EXTEND REMAINING WIRES AND CONDUIT TO TERMINAL CABINET NEW LOCATION (10) DISCONNECT AND REMOVE IDF CABINET INCLUDING ASSOCIATED ELECTRONIC DEVICES. PULLBACK FIBER OPTIC CABLE UP TO EXTERIOR WALL MOUNTED PULLBOX AND REMOVE CONDUIT. (11) DISCONNECT AND REMOVE SWITCH INCLUDING ASSOCIATED WIRES AND CONDUIT.

(12) PROTECT IN PLACE ALL EXISTING ELECTRICAL DEVICES IN THIS ROOM U.O.N. CAREFUL NOT TO DISCONNECT POWER SUPPLY.

(13) DISCONNECT AND REMOVE HDMI INPUT OUTLET INCLUDING WIRES AND CONDUIT.

 $\langle 14 \rangle$ DISCONNECT AND REMOVE POWER POLE INCLUDING WIRES AND CONDUIT UP TO PANELBOARD.

 $\langle 15 \rangle$ DISCONNECT AND REMOVE CCTV CONTROL PANEL INCLUDING WIRES AND CONDUIT.

(16) CAREFULLY CUT FIRE ALARM CONDUIT, INTERCEPT, EXTEND AND REROUTE TO TERMINAL CABINET NEW LOCATION.

 $\langle 17 \rangle$ DISCONNECT AND REMOVE EMERGENCY PUSH BUTTON SWITCH INCLUDING WIRES AND CONDUIT. CUT AND CAP CONCEAL CONDUIT AND ABANDON IN PLACE.

(18) DISCONNECT AND REMOVE ALARM BELL INCLUDING WIRES AND CONDUIT.

 $-\langle 2 \rangle$ (TYPICAL)

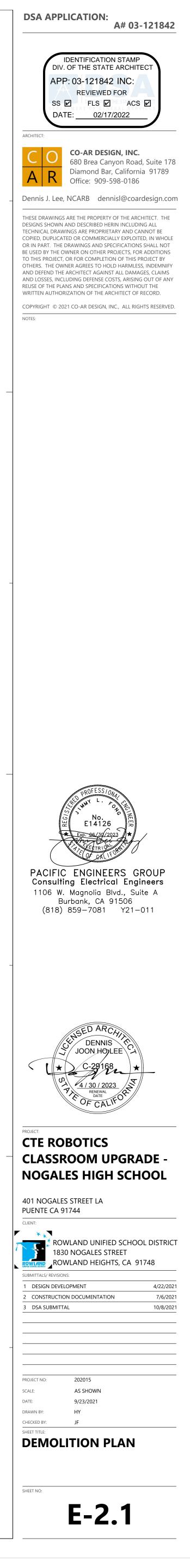
⊢© (F)

- 6

-----B

 $\langle 3 \rangle$ (TYPICAL)

-----(C) —(E)FATC/FCPS



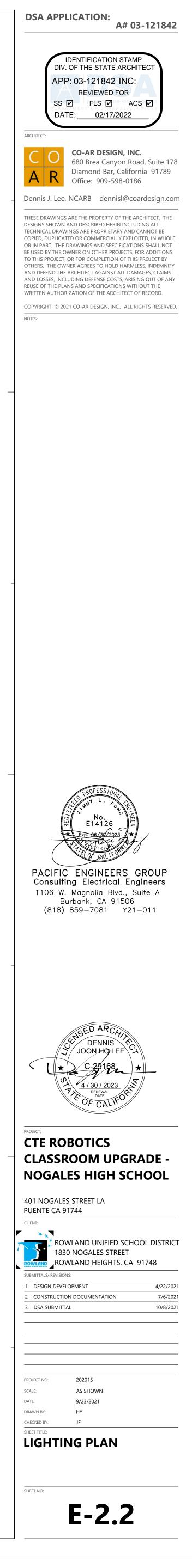
(N) ST (E) STO (N (E) STORAGE/ M-_____ (N) O (E) ST (N.I _____ (N) T (N) ⁻

8	A) (9				1)	
				<u>→</u> → × 3 ×		
STORAGE	A .5a	ab	AAE	EA		
(EH)	A 5b EH-5		A A A A A			
EG	5a		1 3 A A 1 3			A
STORAGE (N.I.C.) M-15			A LV A 1 3 A A			
E/ IDF (N.I.C.)						(N) ROBOTOICS CLASSROOM M-22
) OFFICE	A1 A		AEA			B
) OFFICE M-17	5a 5		A A 1 A A A			
STORAGE (N.I.C.) M-18			1 3 A A 3 3 4 4 33 3			BEAM 1'-0"
			A LV A 1 3 A LV A			<u>с</u>
) TOILET M-20			1 3 A A			
) TOILET			1 AE 1,1 3 1			

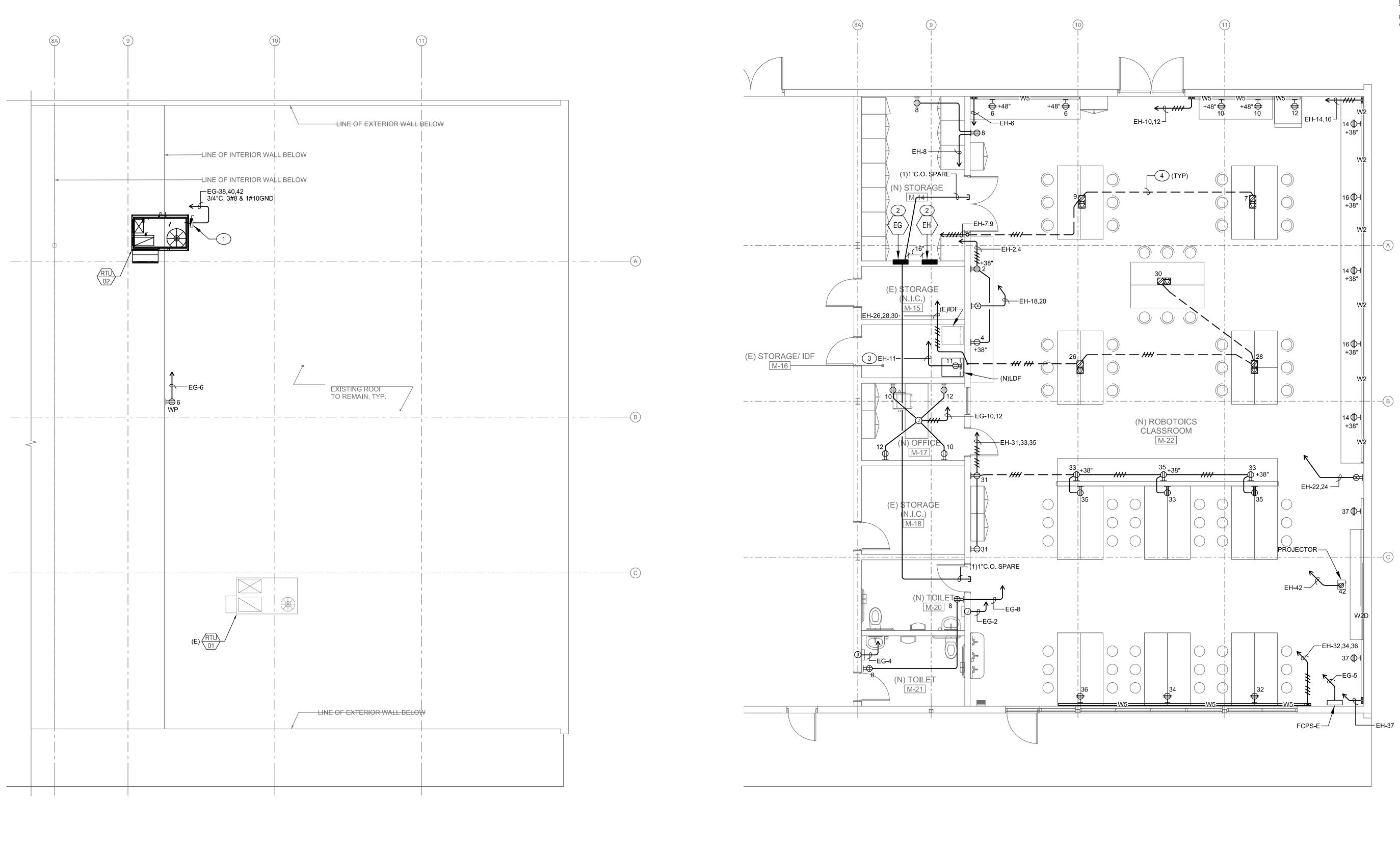
SCALE: 3/16" = 1'-0"

.....C

KEYED NOTES 1 PANELBOARD NEW LOCATION, SAW CUT WALL TO FIT PANELBOARD AND CONDUITS. PATCH AND PAINT WALL TO MATCH FINISHED WALL COLOR.



COAR-CONFERENCE - BIMcloud Basic for ARCHICAD 25/202015-RUSD-Nogales High-Robotics Thursday, September 23, 2021 7:50 AM



ROOF POWER PLAN SCALE: 3/16" = 1'-0" 2

KEYED NOTES

- DISCONNECT SWITCH FUSIBLE TYPE, 60 AMPS, 3 POLE, 250 VOLTS WITH (3)45 AMPS FUSE IN NEMA-3R ENCLOSURE.
 PANELBOARD NEW LOCATION, SAW CUT WALL TO
- 2 PANELBOARD NEW LOCATION, SAW CUT WALL TO FIT PANELBOARD AND CONDUITS. PATCH AND PAINT WALL TO MATCH FINISHED WALL COLOR. SEE DETAIL 3/E1.2 FOR DETAILS.
- 3 3/4"C, 2#12 & 1#12G PLUS 1#6G TO EH-11. CONNECT 1#6 GROUND TO METAL FRAME OF LDF & GROUND BUS OF PANEL EH.

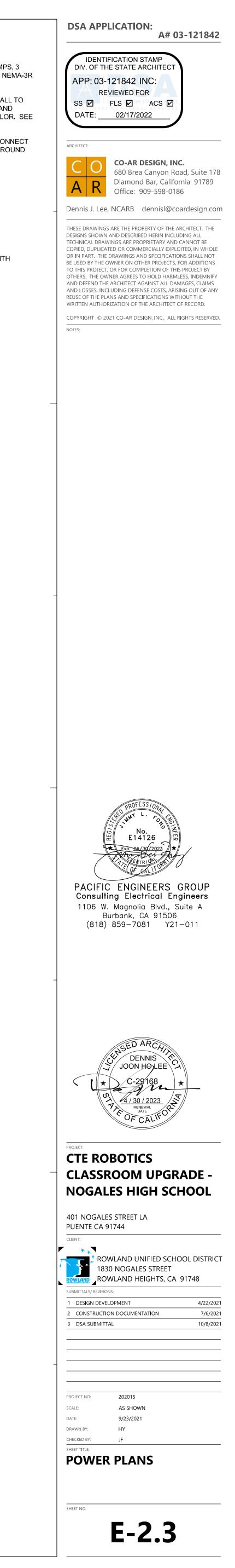
4 SEE DETAIL 6/E-1.2.

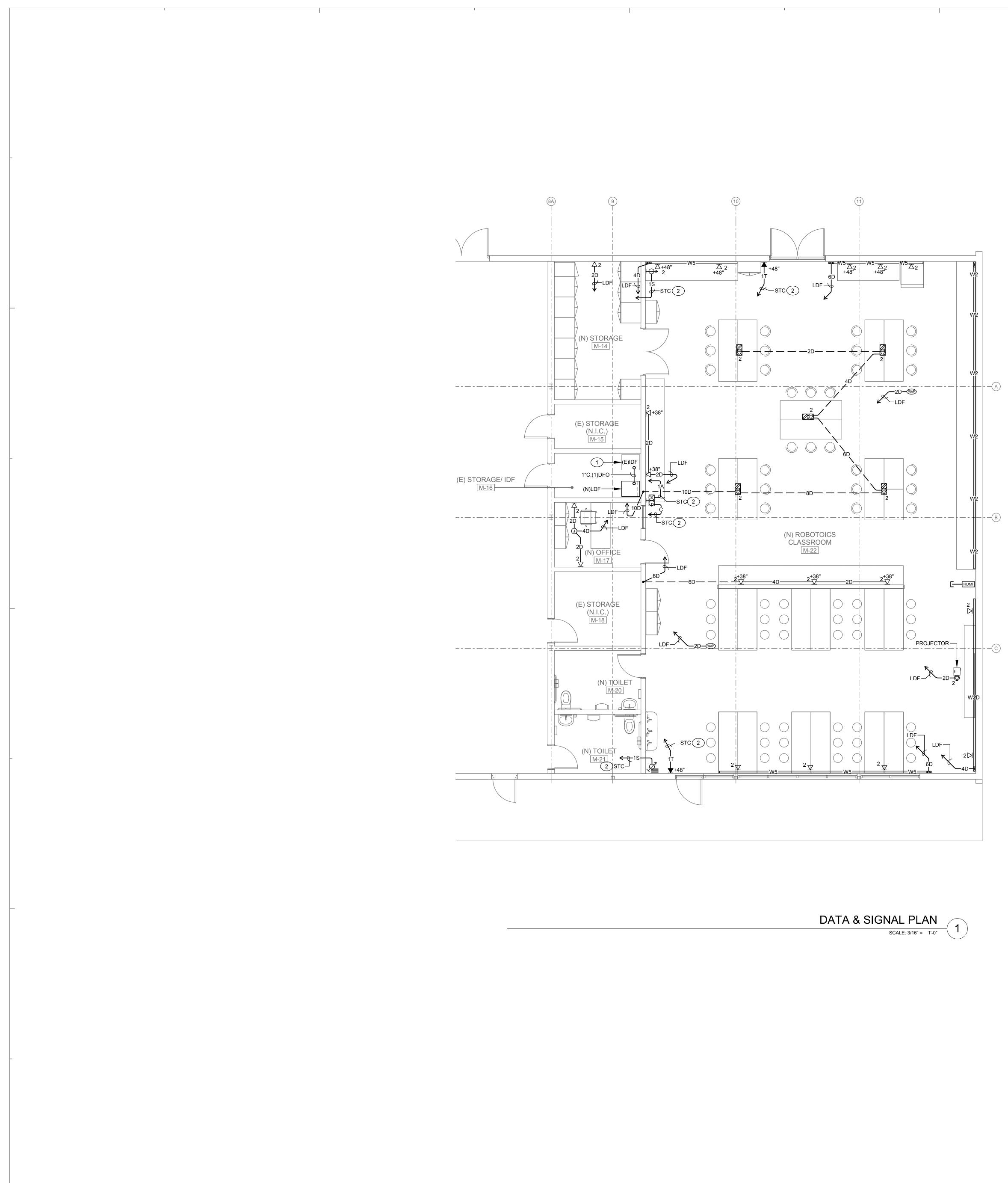
NOTE:

LABEL ALL ELECTRICAL COVERS/FACEPLATES WITH CORRESPONDING PANEL AND CIRCUIT NUMBER.

 POWER PLAN

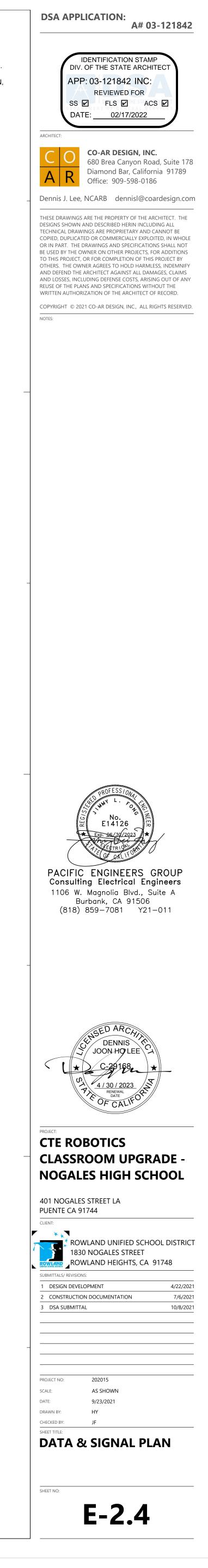
 SCALE: 3/16" = 1'-0"





KEYED NOTES

1 ADD PATCH PANEL, ELECTRONIC EQUIPMENT OR MODULE TO INCLUDE NEW DEVICES AS INDICATED. 2 FOR EXISTING TERMINAL CABINET "STC" LOCATION, SEE SHEET FA-1.2 SITE PLAN.



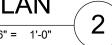
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			///////////////////////////////////////		/////	//////		/////				=////	/////		////	/////	/////	////	/////			
				4.0 4.6	4.9	4.7 4.0	3 .1	2.3	1.8 1.	4 1.3	1.3	* 1.4	++ 1.6	2.0 2.	7 3.6	4.4	4.8	4.6	4.0 3	.2		
				4.6 5.5	5.9	5.6 4.6	3.5	2.6	1.9 1.	5 1.4	1.3	1.4	1.7	2.3 3.	1 4.2	5.3	5.8	5.5	4.7 3	.6		
PENDANT +9' A.F.F.		STORAGE		4.8 5.8		5.9 4.8					1.4					5.6	6.2		4.9 3			
				4.5 5.4		EM4@ 9' 4.5										5.1	+	+	4.6 3			
				3.6 4.3		4.4 3.7					1.3	+	1.6			4.2	4.6	+	3.8 3			
				2.8 3.3		3.3 2.9 2.5 2.2					1.2	1.3	1.5 + - + 1.3			3.2	3.4	+	3.0 2 + 2.3 2			
				1.8 1.9		1.9 1.8					1.2	•				2.4 	1.0	+	++ 1.8 1			-
				1.5 1.6		+ + + 1.6 1.5		+ +		+	+ 1.0	+		<u> </u>	+	1.6	1.6	+	+ + +			(A)
				1.4 1.5		++ 1.5 1.5		1.2				1.0	Ļ,			+ 1.5	1.5	+	++			
		N.I.C.		1.5 1.6	1.6	1.6 1.5	1.4	1.3	1.2 1.	1 1.0	+ 1.0	1.1	++ 1.1	1.2 1.	3 1.4	+ 1.5	+ 1.6	1.6	+ + 1.5 1	.4		
				1.8 1.9	2.0	1.9 1.8	1.6	1.4	1.3 1.	1 1.1	1.1	+ 1.1	1.2	1.3 1.	5 1.7	1.8	1.9	1.8	++ 1.7 1	.6		
				2.2 2.4	2.5	2.4 2.2	1.9	1.6	1.4 1.	2 1.1	1.1	1.2	++ 1.3	1.5 1.	8 2.0	2.3	2.4	+ 2.4	++ 2.2 1	.9	PENDANT +9' A CEILING TO FL	
		N.I.C.		2.9 3.3	* 3.4	3.3 2.9	2.3	1.9	1.6 1.	3 1.2	1.2	1.3	++ 1.5	1.7 2.	1 2.6	3.1	3.3	3.2	2.8 2	.4		
				3.6 4.3	4.6	4.3 3.7	2.9	2.2	1.7 1.	4 1.3	1.3	1.4	++ 1.6	2.0 2.	6 3.3	4.1	4.4	4.2	* * * 3.6 2	.9		
				4.2 5.2	5.6	5.3 4.4	3.3	2.4	1.9 1.	5 1.3	1.3	1.4	++ 1.7	2.2 3.	0 4.0	5.0	5.5	5.2	4.4 3	.4		
		1		4.5 5.6	6.1	+ + 5.7 4.7	+ 3.5	+ + + 2.5	+ + 1.9 1.	<mark>6 1</mark> .4	+ 1.3	+ 1.5	++ 1.8	2.3 ⁺ 3.	+ 1 4.2	+ 5.4	-+	+ 5.6	+ + 4.7 3	.6		B
PENDANT +9' A.F.F.		OFFICE		4.2 5.2	5.6 F6-	+ E [[] ⁶] ³ @ 9' ^{4.4}	3.3	2.4	1.9 1.	5 1.4	1.3	1.4	++ 1.7	2.2 3.	0 4.0	5.0	5.5 F6	-EM2@ 9	4.4 3	.4		
				3.6 4.2	4.6	4.3 3.7	2.9	2.2	1.7 1.	4 1.3	1.3	+ 1.4	++ 1.6	2.0 2.	6 3.4	4.1	4.5	4.3	3.7 3	.0		
				2.8 3.2	3.4	3.3 2.9	2.3	1.9	1.6 1.	3 1.2	1.2	1.3	+ 1.5	1.8 2.	2 2.7	3.1	3.3	3.2	2.9 2	5		
				2.1 2.4	2.5	2.4 2.2	1.9	1.6	1.4 1.	2 1.2	1.2	1.2	++ 1.3	1.5 1.	8 2.1	2.3	2.5	2.4	2.2 2	0		
		N.I.C.		1.7 1.9	1.9	1.9 1.8	1.6	1.4	1.3 1.	2 1.1	* 1.1	1.1	* 1.2 *	1.4 1.	5 1.7	1.8	1.9	1.9	1 .8 1	.7		
					1.6	1.6 1.5	1.4	1.3	1.2 1.	1 1.1	1.1	1.1	1.2	1.2 1.	4 1.5	1.6	1.6	1.6	1.5 1	.5	BEAM 1'-0"	
						1.5 1.5																
		DESTROOMS		<u>+1.5</u> <u>1.6</u>							•	•			•	•		+	1.5 1			C
		RESTROOMS +8'-0"		1.8 1.9		1.9 1.8		1.4											1.8 1 + 2.2 2			
				2.3 2.5		2.5 2.3		1.7				1.2				2.4						
				3.0 3.3		3.3 2.9 4.4 3.7		1.9 • • • •			1.2		1.5			4.2	4.5	3.3 + 4.4	2.9 2			
		RESTROOMS		4.4 5.3		4.4 3.7 5.5 4.5		2.3				1.4				4.2 5.1			3.7 3 + + + + + + + + + + + + + + + + + + +			
		+8'-0"		4.7 5.8		5.9 4.8		2.6			+ 1.4		1.8			5.6		+	4.9 3			
	$\left \left \right \right $.E№6@ 9' 4.6			1.9 1.								5.8 =		4.7 3			
						4.8 4.0			1.8 1.				.					•	4.0 3			
						-0			-0						0			////		Z		

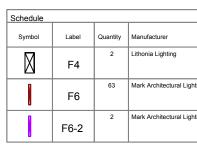
Schedule		_				i		1						
Symbol	Label	Quantity	Manufacturer	Catalog Nu	mber	Description		Lamp	Number Lamps	Lumens Per Lamp	Lumen Multiplie	Light Loss Factor	Wattage	Efficiency
	F6-EM	6	Mark Architectural Lighting	PLN8 4FT 8 20/80 E10V	80CRI 40K ID800LMF VLCP	PLN8 4FT 80CRI 40 20/80	K ID800LMF		1	2911	1	0.51	24.31	100%
Stat	istics						0			1				
Desc	ription				Symbol	Avg	Ма	x r	Min	Ma	ax/Mi	in	Avg/N	/lin
	RGENCY				+	2.5 fc	6.3	fo 1	0 fc		6.3:1		2.5	•1

Description	Symbol	Avg	Max
EMERGENCY - OPEN AREA	+	2.5 fc	6.3 fc

		(10)	(11)	
	+15.1 +19.6 +23.5 +23.4 +19.5 +14.9	22.3 25.4 21.9 20.4 21.0 20.1 29.0 30.9 30.4 29.2	28.9 30.0 30.8 30.1 28.3 27.7 28.1 28.1 26.0 22.4	+ 19.3
	17.9 24.3 29.6 29.5 24.1 17.7 + 19.8 + 27.2 + 33.4 + 33.3 + 27.0 + 19.6 STORAGE	20.0 32.3 357 30.9 33.0 33.1 36.1 45.3 30.0	M	
PENDANT +0' A.F.F.	*20.8 *28.7 *35.1 *35.0 *28.4 *20.5	34.7 45.0 52.7 52.5 46.5 46.5 55.7 55.5 56.0 50.6	49.8 54.4 58.2 55.5 49.4 47.7 51.1 58.2 47.4 36.6	27.5
	20.9 28.9 35.5 35.4 28.7 20.7 +20.3 +27.9 +34.2 +34.1 +27.7 +20.1	37.2 48.5 b 9 50.0 52.0 52.7 50.5 b 1 00.0 55.2	* 54.1 * 59.0 * 43.0 * 60.2 * 53.7 * 51.9 * 55.4 * 47.5 * 51.2 *39.4 * 56.9 * 61.9 * 55.4 * 56.4 * 54.5 * 58.0 * 50.0 * 53.4 * 1.1	
		39.8 * 51.9 * 61.1 * 57.0 * 57.1 * 62.9 * 8.0 * 65.6 * 59.8	* 58.8 63.8 47.8 64.9 58.2 56.2 59.6 4 1.5 54.8 42.3	31.4
	16.2 21.5 25.9 25.9 21.5 16.2 13.1 16.4 19.1 19.2 16.6 13.3		60.0 64.9 65.7 66.8 60.0 57.9 61.3 67.1 56.1 43.4	
		41.3 53.6 52 .7 63.1 59.2 59.4 65.2 7 57.9 62.3	61.3 66.2 7 D.1 67.3 60.5 58.3 61.7 6 B.4 56.4 43.7	32.6
	N.I.C.	41.5 53.9 48.3 63.5 59.5 59.7 65.7 41.0 68.4 $62.641.7$ 54.1 68.2 63.7 59.8 60.0 65.9 71.2 68.5 62.9	61.7 66.6 7.7 60.9 58.6 62.1 63.7 56.7 44.0 62.0 66.8 70.8 67.9 61.2 58.9 62.3 63.8 56.9 44.1	
			62.1 67.0 11.0 68.1 61.3 59.0 62.4 14.0 57.0 44.2	PENDANT +9' A.F.F.
	N.I.C.		62.3 67.1 7 1.0 68.1 61.4 59.1 62.5 6 4.0 57.0 44.3	
		42.0 ⁺ 54.4 ⁶ B.6 ⁺ 64.0 ⁺ 60.1 ⁺ 60.4 ⁺ 66.3 ⁺ 71.6 ⁺ 68.9 ⁺ 63.3	62.3 67.2 11.2 68.3 61.5 59.1 62.6 44.2 57.2 44.3 62.4 67.2 71.2 68.3 61.6 59.2 62.6 54.2 57.1 44.4	
PENDANT +9' A.F.F.	*31.4 *B6.7 *38:4 CE *38.4 *B6.8 *31.6	42.0 54.4 48.6 64.1 60.1 60.4 66.3 41.7 69.0 63.3	+ 62.4 + 67.3 + 1.2 + 68.3 + 61.6 + 59.2 + 62.7 + 44.4 + 67.4 + 67.3 + 67.3 + 67.3 + 67.3 + 67.3 + 67.3	
CEILING TO FLOOR +111-6"	*31.5 * 36.8 *38.5 *38.5 * 36.9 *31.5	<u>M</u> <u>M</u>	62.4 67.2 71.2 68.3 61.6 59.2 62.6 64.2 57.2 44.4 62.3 67.2 71.2 68.3 61.5 59.1 62.6 64.2 57.2 44.3	
	25.8 30.3 31.9 31.9 30.4 26.0	41.9 54.3 5 63.9 60.0 60.3 66.1 71.5 68.8 63.2	62.3 67.1 71.0 68.2 61.5 59.1 62.5 54.0 57.1 44.3	
		41.8 54.3 48 5 63.9 59.9 60.2 66.1 11.4 68.8 63.1 + 41.7 54.1 63.3 63.7 59.8 60.0 65.9 71.2 68.6 62.9	62.1 67.0 11.0 68.1 61.3 59.0 62.5 14.1 57.1 44.2 62.0 66.8 70.8 67.9 61.2 58.9 62.3 63.9 56.9 44.1	
	N.I.C.	41.6 54.0 48.1 63.5 59.6 59.8 65.7 41.0 68.4 62.7	61.7 66.6 10.6 67.7 60.9 58.7 62.1 18. 7 56.8 44.0	32.8 BEAM 1'-0"
		M M	61.4 66.2 70.2 67.3 60.6 58.4 61.7 68.4 56.4 43.8 60.8 65.8 69.8 66.9 60.1 57.9 61.4 69.1 56.2 43.5	32.4
	RESTROOMS +8-0"	40.5 * 52.7 *61 .8 *62 .1 *58 .3 *64 .1 *69 .2 *66 .7 *61 .1	60.0 65.0 5P .0 66.1 59.3 57.3 60.7 5P .4 55.5 43.0	* 32.0
			*58.9 63.9 *47.9 65.0 *58.2 *56.2 *59.7 *41.6 *54.8 *42.3 *57.0 62.0 65.1 63.2 *56.5 54.6 58.1 60.1 *53.4 *1.2	
		* 37.3 * 48.6 * 57.1 * 57.0 * 52.8 * 52.8 * 58.5 * 63.3 * 61.0 * 55.3	* 54.3 * 59.2 * 60.4 * 53.8 * 52.0 * 55.5 * * 7.6 * 51.3 * 39.5	29.4
	*17.7 *21.4 RESTROOMS *17.7 *21.4 RESTROOMS *17.7 *21.6 *17.8 *8.0° *0.7 *21.7 *21.6 *17.8	M M	49.9 54.6 58.4 55.7 49.6 47.9 51.3 58.4 47.6 36.7 43.8 47.7 49.9 48.6 43.5 42.0 44.8 45.6 41.7 32.6	
	$\begin{array}{c} & \begin{array}{c} & \begin{array}{c} & \\ & \\ & \\ & \end{array} \\ & \begin{array}{c} & \\ & \\ & \end{array} \\ & \begin{array}{c} & \\ & \\ & \end{array} \\ & \begin{array}{c} & \\ & \\ & \end{array} \\ & \begin{array}{c} & \\ & \\ & \end{array} \\ & \begin{array}{c} & \\ & \\ & \end{array} \\ & \begin{array}{c} & \\ & \\ & \end{array} \\ & \begin{array}{c} & \\ & \\ & \end{array} \\ & \begin{array}{c} & \\ & \\ & \end{array} \\ & \begin{array}{c} & \\ & \\ & \end{array} \\ & \begin{array}{c} & \\ & \\ & \end{array} \\ & \begin{array}{c} & \\ & \\ & \end{array} \\ & \begin{array}{c} & \\ & \\ & \end{array} \\ & \begin{array}{c} & \\ & \\ & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \begin{array}{c} & \\ & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \end{array} \\ & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \end{array} \\ & \end{array} \\ & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \end{array} \\ \\ & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \end{array} \\ \\ \end{array} \\ \\ \end{array} \\ \\ \end{array} \\ \end{array}$		36.3 38.8 40.8 39.3 35.9 34.8 36.4 37.3 33.7 27.4	
7///	*18.2 *21.6 *21.7 *21.7 *21.5 *17.8	+22.4 +25.6 +28.2 +28.7 +28.1 +28.3 +29.9 +31.2 +30.7 +29.4 ////////////////////////////////////	*29.1 30.3 31.1 30.4 28.6 27.9 28.4 28.3 26.1 22.5	

EMERGENCY PHOTOMETRIC PLAN SCALE: 3/16" = 1'-0" 2



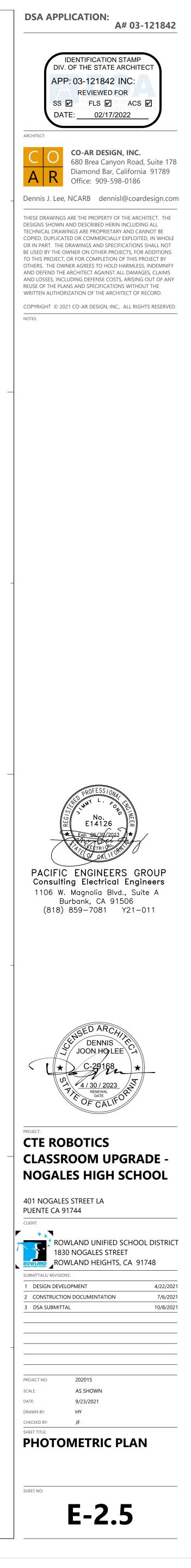


Statistics

Description OPEN AREA @ 2'-6" AFF RESTROOM @ 2'-6" AFF STORAGE @ 2'-6" AFF OFFICE @ 2'-6" AFF PHOTOMETRIC PLAN
SCALE: 3/16" = 1'-0"

Lamp Description Catalog Number STL2 2' 2000 NOMINAL LUMENS LED 4000K STL2 20L EZ1 LP840 63 Mark Architectural Lighting PLN8 4FT 80CRI 40K ID800LMF 20/80 PLN8 4FT 80CRI 40K ID800LMF Mark Architectural Lighting PLN8 4FT 80CRI 40K ID1000LMF PLN8 4FT 80CRI 40K ID1000LMF 20/80

	Symbol	Avg	Max	Min	Max/Min	Avg/Min
-	+	53.9 fc	71.7 fc	19.3 fc	3.7:1	2.8:1
(TYPICAL)	+	25.3 fc	33.2 fc	17.7 fc	1.9:1	1.4:1
	+	24.0 fc	35.5 fc	13.1 fc	2.7:1	1.8:1
	+	32.4 fc	38.5 fc	25.8 fc	1.5:1	1.3:1



FIRE ALARM SYMBOL LIST

FATC FIRE ALARM TERMINAL CABINET WITH TERMINAL STRIPS.

MFACP MAIN FIRE ALARM CONTROL PANEL

FA FIRE ALARM.

FCPS FIRE ALARM POWER SUPPLY.

MFATC MAIN FIRE ALARM TERMINAL CABINET WITH TERMINAL STRIPS. #OF DEVICE ~ CKT #-

S1-1 FH

WP WEATHERPROOF. A1-1 V2-1 FIRE ALARM WALL MOUNTED HORN WITH STROBE LIGHT, CANDELA RATING AS INDICATED. +96" TO TOP OF STROBE LIGHT. "A1" DENOTES AUDIBLE FIRE ALARM SIGNAL CIRCUIT AND "V2" DENOTE VISUAL 15cd FIRE ALARM SIGNAL CIRCUIT. "15cd " DENOTES CANDELA RATING. FIRE ALARM MANUAL PULL STATION. PROVIDE MONITOR MODULE TO EACH DEVICE, +48".

"S1-1" DENOTES LOOP MODULE (SLC #1) IDENTIFICATION NUMBER.

WP EXTERIOR W.P. FIRE ALARM HORN. "A1-1" DENOTES AUDIBLE FA SIGNAL CIRCUIT NUMBER.

V2-1 💭 🗆 FIRE ALARM STROBE. MOUNT AT +96" TO TOP OF STROBE. CANDELA RATING AS INDICATED. "V2-1" DENOTES FIRE ALARM SIGNAL CIRCUIT NUMBER. "15cd" DENOTES 15cd CANDELA RATING. 15cd

S1-1 SD ADDRESSABLE SMOKE DETECTOR, PHOTOELECTRIC TYPE. "S1-1" DENOTES LOOP DETECTOR IDENTIFICATION NUMBER.

ACCESS PANEL -

ADDRESSABLE HEAT DETECTOR MOUNTED IN CEILING WITH ACCESS PANEL. "S1-1" DENOTES LOOP S1-1 (변화) DETECTOR IDENTIFICATION NUMBER. S1-1 M MONITOR MODULE. "S1-1" DENOTES LOOP DETECTOR IDENTIFICATION NUMBER.

S1-1 CR CONTROL RELAY MODULE. "S1-1" DENOTES LOOP DETECTOR IDENTIFICATION NUMBER.

FIRE ALARM CABLE AND WIRING

"F" CABLE - "WEST PENN" NO. D990, 1 PAIR #18 NON-SHIELDED - FIRE ALARM ADDRESSABLE LOOP.

"M" CABLE - "WEST PENN D975", 1 PAIR #18.

"UM" CABLE - "WEST PENN AQ3245", 2 PAIR #16.

"V" CABLE - 2#12 AWG-FIRE ALARM VISUAL CIRCUIT CABLE.

"A" CABLE - 2#12 AWG FIRE ALARM AUDIO CIRCUIT CABLE

"C" CABLE - 2#12 AWG.

"S" CABLE - 2#12 AWG.

"P" CABLE - 2#14 TWISTED PAIR.

——F,A,V —— `` > 3/4"C, WITH ONE "F" CABLE, ONE "A" CABLE AND ONE "V" CABLE. <u>F,A,V</u>

- A 3/4" CONDUIT WITH ONE "A" CABLE.
- -2F,2A,2V - 1-1/2" CONDUIT WITH TWO "F", TWO "A", TWO "V" CABLES.
- -2A,2V 1" CONDUIT WITH TWO "A", TWO "V" CABLES.
- -F,A,2V 1" CONDUIT WITH ONE "F", ONE "A", TWO "V" CABLES.

SYMBOLS	COMPONENT	NOTIFIER	CSFM NO.
	MAIN FIRE ALARM CONTROL PANEL (E)	NFS2-3030	7165-0028:0224
ßD	SMOKE DETECTOR, PHOTOELECTRIC TYPE WITH B210LP BASE	FAPT-851	7272-0028:0206
(HD)	HEAT DETECTOR W/ 210LP BASE	FST-851H	7270-0028:0196
FH	PULL STATION WITH MONITOR MODULE	NBG-12 DUAL ACTION	7150-0028:0199
(cd) 💭 L	STROBE, WALL MOUNT	SYSTEM SENSOR SRL	7125-1653:0504
(cd) HS	HORN-STROBE, WALL MOUNT	SYSTEM SENSOR P4RL	7135-1653:0503
	EXTERIOR HORN	SYSTEM SENSOR-HRK WITH MWBB BACKBOX	7135-1653:0189
ММ	MONITOR MODULE	FMM-4-20	7300-0028:0254
CR	CONTROL RELAY MODULE	FRM-1(A)	7300-0028:0219

FIRE ALARM NOTES

1) APPLICABLE STANDARD NFPA 72, as adopted and amended in CBC Chapter 35 2) INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN

DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN APPROVED BY DSA. 3) UPON COMPLETION OF SYSTEM INSTALLATION, A SATISFACTORY TEST OF THE

ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR. 4) A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON

THE JOB SITE AND USED FOR INSTALLATION. 5) ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE

ARCHITECT/ENGINEER OF THE PROJECT. 6) DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND /OR TESTING.

7) ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.

8) WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.

9) WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THEN 6" TO A HORIZONTAL STRUCTURE.

10) AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (dBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR FIVE dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIABLE SPACE WITHIN THE BUILDING.

11) AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN. 12) THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.

13) VISIBLE DEVICES SHOULD NOT EXCEED TWO FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISIBLE DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.

14) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN CONTINUITY OF THE EXISTING FIRE ALARM SYSTEM, CENTRAL STATION REPORTING SYSTEM, SMOKE MANAGEMENT SYSTEM, AND ANY OTHER LIFE SAFETY EQUIPMENT EXISTING AT THE SITE AND AFFECTED BY HIS WORK ON THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE WATCH OR OTHER MITIGATING MEASURES FOR SYSTEMS THAT ARE MADE INACTIVE OR OTHERWISE COMPROMISED AS A RESULT OF THE WORK PERFORMED BY THAT CONTRACTOR.

15) ALL FIRE ALARM WIRING SHALL BE FPLOR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE THHN OR THWN.

16) PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.

17) SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM, DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.

18) ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.

19) FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.

20) A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL." CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.

21) THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED "SYSTEM RECORD OF COMPLETION" PER NFPA 72, FIGURE 17.8.2.

22) FIRE ALARM CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48" ABOVE THE FINISHED FLOOR. 23) THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR

24) SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.

SUPERVISORY MONITORING PER CBC SECTION 901.6.2.

25) OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.

26) PROVIDE (2)2'x2' OPENING FOR ALL CEILING IDENTIFIED AS HARD, PLASTER & TILE CEILINGS. TO ACCOMMODATE CONDUIT INSTALLATION TO HEAT DETECTOR IN ATTIC SPACE PATCH AND REPAIR TO MATCH EXISTING CEILING.

27) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THE TYPE OF CEILING CONSTRUCTION AND TO PROVIDE THE PROPER TYPE OF BOX MOUNTING AND SUPPORT FOR FIRE ALARM INITIATION DEVICES.

FIRE ALA	ARM SEQUE	NCE OF OPE	RATION		
DEVICE / ACTION	MANUAL PULL STATION	AREA SMOKE DETECTOR	AREA HEAT DETECTORS	POWER FAILURE	NOTES
ANNUNICIATE ALARM AT FACP AND REMOTE ANNUNCIATOR	×	×	×		
ANNUNICIATE SUPERVISORY CONDITION AT FACP AND REMOTE ANNUNCIATOR	×	×	×	×	
ANNUNICIATE TROUBLE AT FACP AND REMOTE ANNUNCIATOR	×	×	×	×	[1]
ACTIVATE AUDIBLE/VISUAL SIGNAL THROUGHTOUT SCHOOL (ALARM)	×	×	×		
CONTACT CENTRAL STATION (UDACT)	×	×	×	×	
SHUT DOWN AIR HANDLING EQUIPMENT	×	×	×		[2]

[1] INDICATE TROUBLE ON WIRING FAULT OR DEVICE AS REQUIRED.

[2] SHUT DOWN ONLY AIR HANDLER EQUIPMENT IN THE BUILDING OR AREA WHERE ALARM CONDITION OCCURS.

BATTERY SIZ DEVICE NAI CPU2-3030D **REMOTE ANNU** LCM-320 _EM-320 **UDACT COMMUI** NCM-W NETWOR **AVPS-24 AUXILA** HEAT DETECTO PHOTOELECTR FMM ADDRESSA FRM ADDRESAE **UNIVERSAL ZON** PULL STATION (SPRINKLER BEL STANDBY AH

ALARM AH	
SUB-TOTAL	
30% SPARE	
TOTAL	
	* F
	N

	FIRE ALARM SIGNAL CIRCUIT SCHEDULE											
CKT. NO.	QUAN. BELL 0.03	QUAN. STROBE 15 cd 0.043	QUAN. STROBE 30 cd 0.063	QUAN. STROBE 75 cd 0.107	QUAN. STROBE 110cd 0.148	QUAN. OUTDOOR HORN 0.069	TOTAL AMPS	WIRE SIZE	DISTANCE (IN FEET)	TO MFACP	TO POWER EXTENDER	PERCENT VOLTAGE DROP
V1		2		2			0.30	#12	260		х	1.08
A1							0.00					0.00
V2							0.00					0.00
A2							0.00					0.00

I = TOTAL CURRENT FLOW IN ALARM CONDITION L = LENGTH OF CIRCUIT FROM SUPPLY TO LAST DEVICE (IN FEET) 21.6 = RESISTIVITY OF COPPER CONDUCTOR PER CIRCULAR MILL

(10.8 X 2 FOR TWICE THE LENGTH) C.M. = CROSS SECTIONAL AREA OF CONDUCTOR IN CIRCULAR MILLS

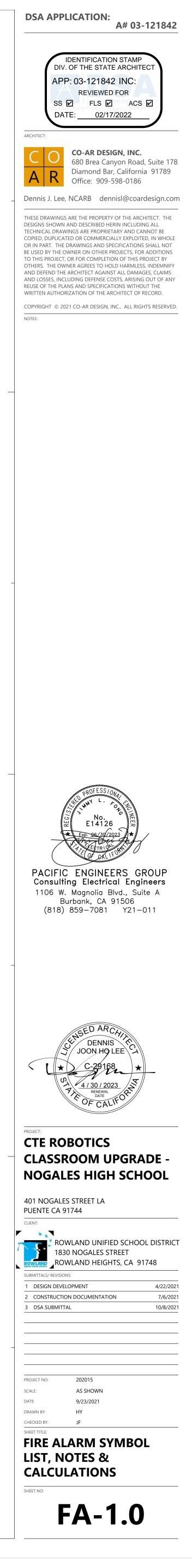
VOLTAGE DROP = (I) X (L) X 21.6(CM)

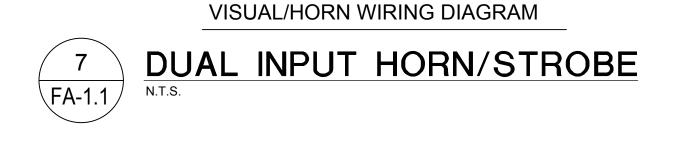
CLASSROOM BLDG-E						
BATTERY CALCULATIONS - REMOTE POWE	ER SUPPLY	FCPS (E)				
		SUPERVISORY CURRENT, A		ALARM CURRENT, A		
EQUIPMENT MODEL	QUANTITY	UNIT	TOTAL	UNIT	TOTAL	
POWER SUPPLY FCPS	1	0.065	0.065	0.91	0.91	
110cd ALARM STROBE LIGHT 24 VDC	2	0	0	0.148	0.296	
75cd ALARM STROBE LIGHT 24 VDC	7	0	0	0.107	0.749	
30cd ALARM STROBE LIGHT 24 VDC	0	0	0	0.063	0	
15cd ALARM STROBE LIGHT 24 VDC	5	0	0	0.043	0.215	
HORN	8	0	0	0.069	0.552	
STANDBY AH 1.56 ALARM AH 0.68		SUB TOTAL HOURS	0.07 24.00	SUB TOTAL HOURS	2.722 0.25	
TOTAL 2.24		AH STANDBY	1.56	AH ALARM	0.6805	
* PROVIDE NEW 7 AH BATTERY PACK.				(0.25 HRS. = 15 MIN.)		

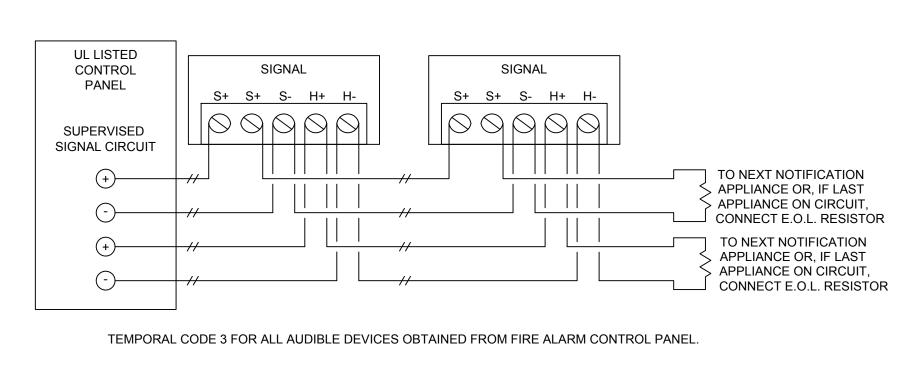
BUILDING A-ADMIN. AREA

		SUPERVISOF		ALARM CUF		
ME (NOTIFIER)	QTY	UNIT	TOTAL			
	1	0.34	0.34	0.42	0.42	
INCIATOR	1	0.05	0.05	0.1	0.1	
	3	0.13	0.39	0.13	0.39	
	3	0.1	0.3	0.1	0.3	
JNICATOR	1	0	0	0.03	0.03	
ORK MODULE	1	0.11	0.11	0.11	0.11	
ARY POWER SUPPLY	18	0.018	0.324	0.018	0.324	
DR (E)391 + (N)5 = 395	396	0.0007	0.2772	0.0065	2.574	
RIC SMOKE DETECTOR (E)474-(E)11+ (N)14 = 477	477	0.00021	0.10017	0.0068	3.2436	
ABLE MONITOR MODULE	10	0.00021	0.0021	0.005	0.05	
BLE CONTROL MODULE (E)45+(N)2 = 47	47	0.00026	0.01222	0.0065	0.3055	
NE CODER MODULE UZC-26	1	0.05	0.05	0.085	0.085	
(E)28 - (E)2 + (N)2 = 28	28	0.00021	0.00588	0.0688	1.9264	
LL	1	0	0	0.03	0.03	
47.08	I	SUB TOTA			9.888	
2.47 49.55 12.39		HOUR AH STANDB		_	0.2	
61.94						
PROVIDE NEW 100 AMPERE-HOUR(AH) BATTERY PA	(0.25 HRS.= 15 MIN.)					

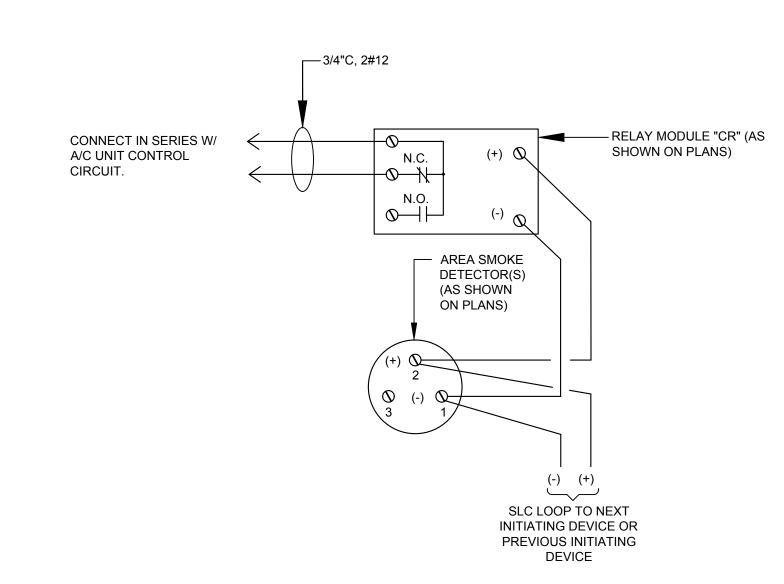
NOTE: REPROGRAM AND TEST FIRE ALARM SYSTEM AFTER NEW DEVICES ARE INSTALLED.

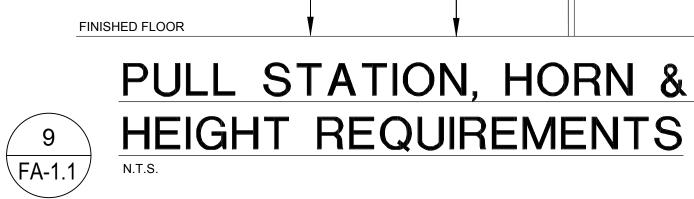


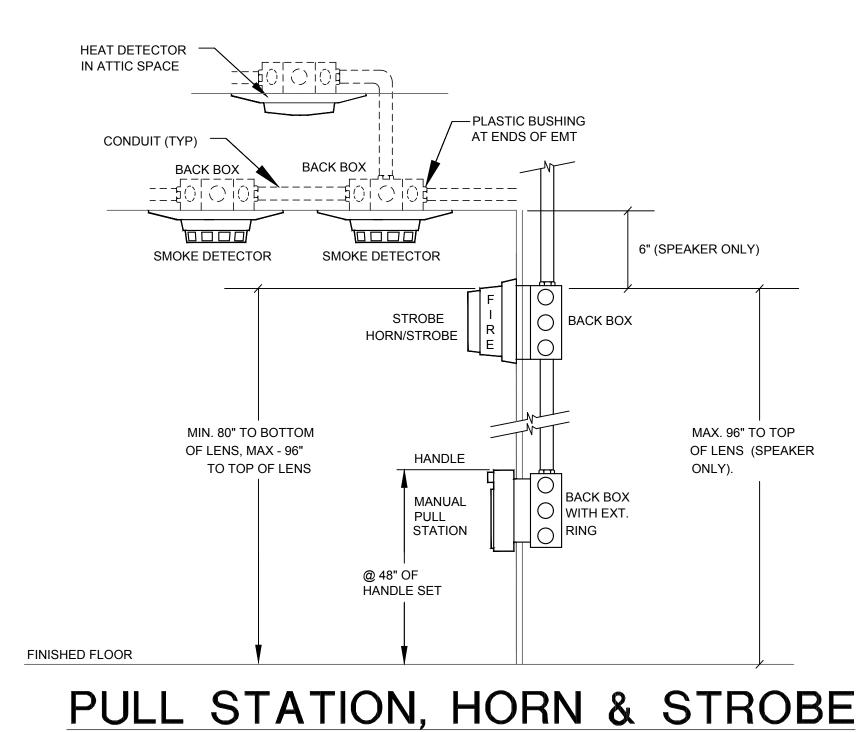


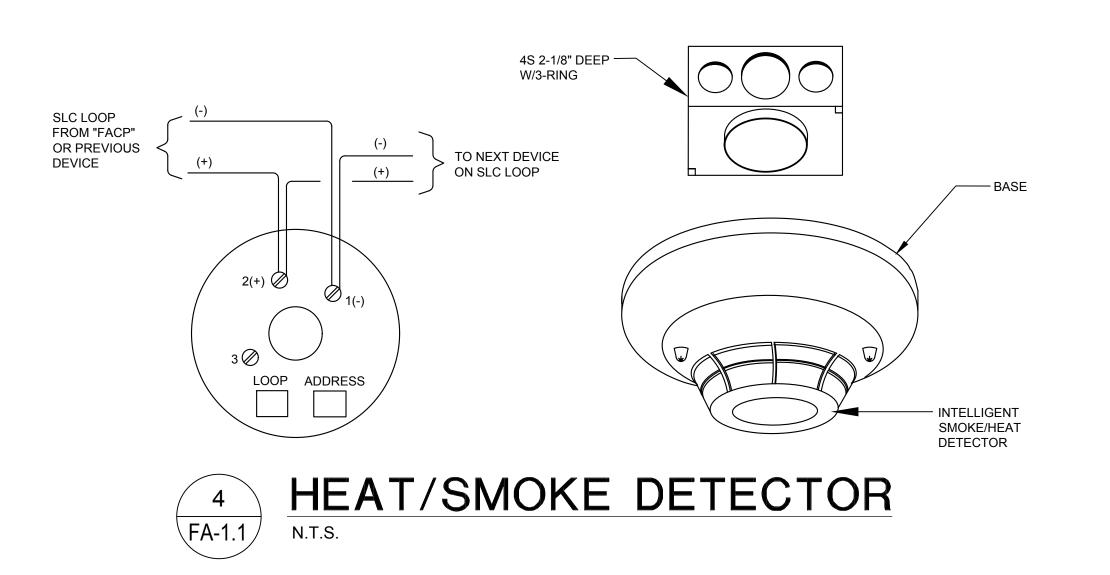


TYPICAL A/C UNIT SHUT DOWN CONTROLS ILOW VOLTAGE CONTROL CIRCUIT) **FA-1.1**

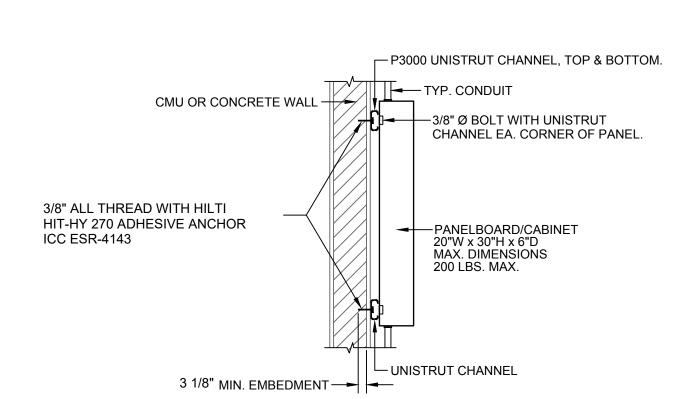


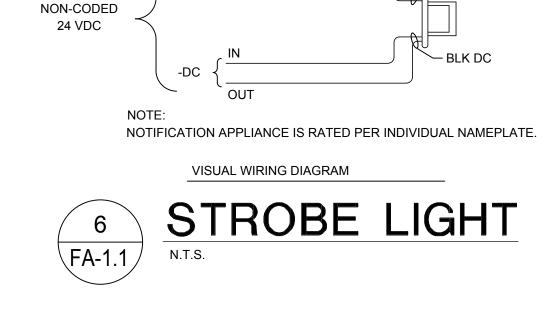




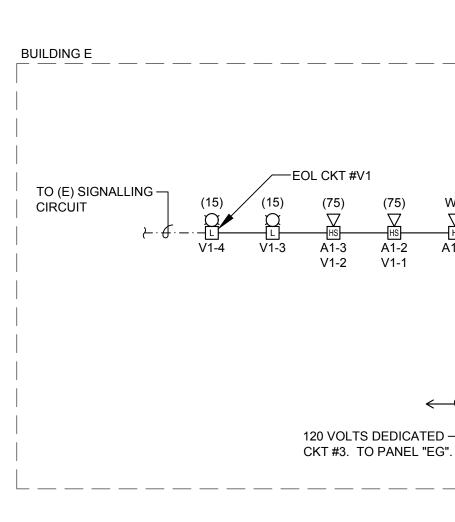


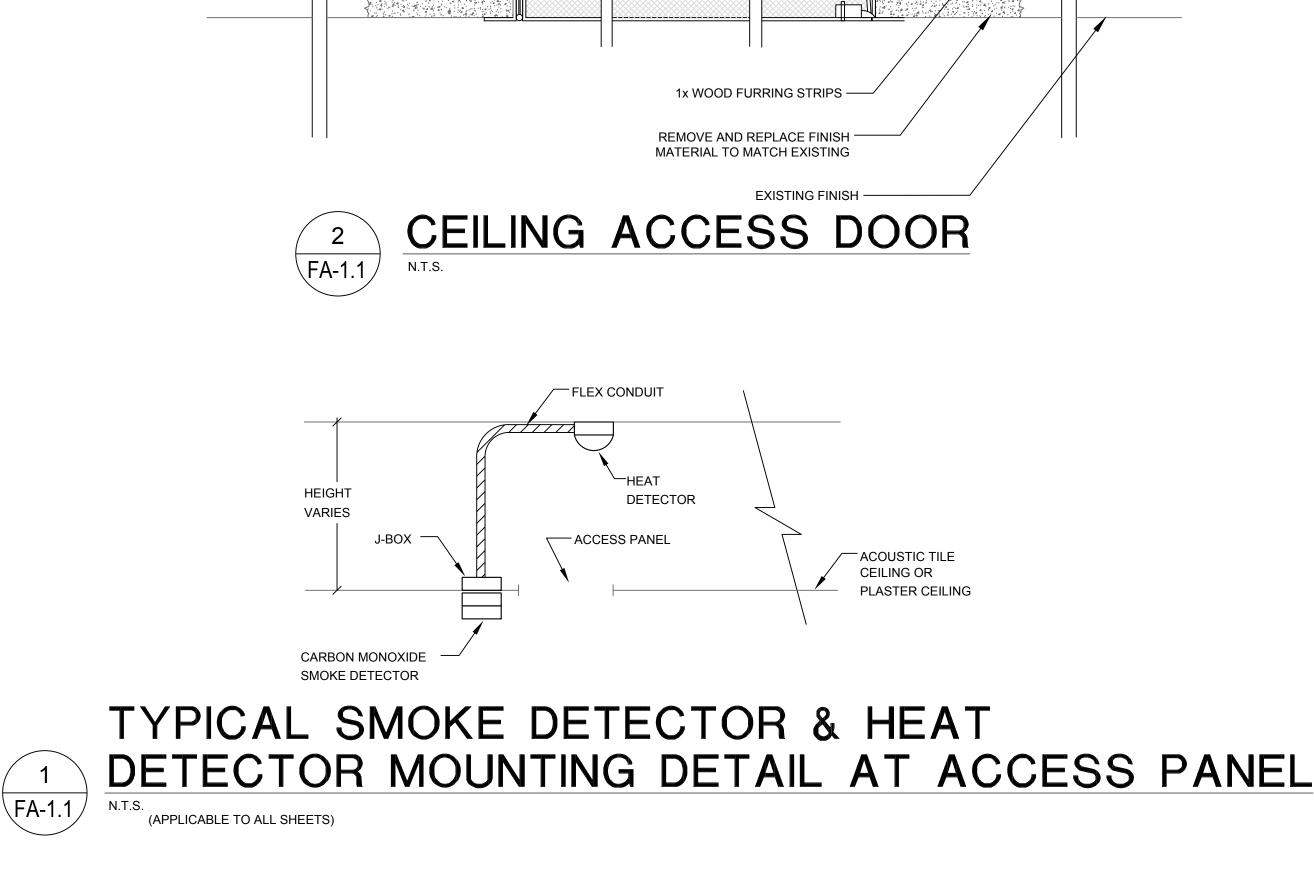


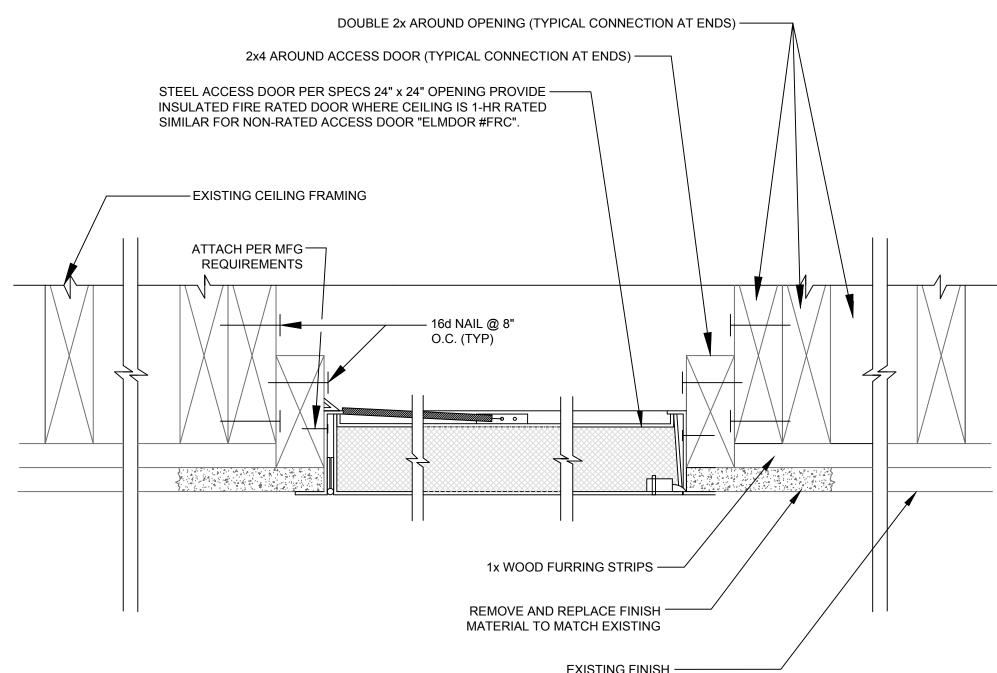




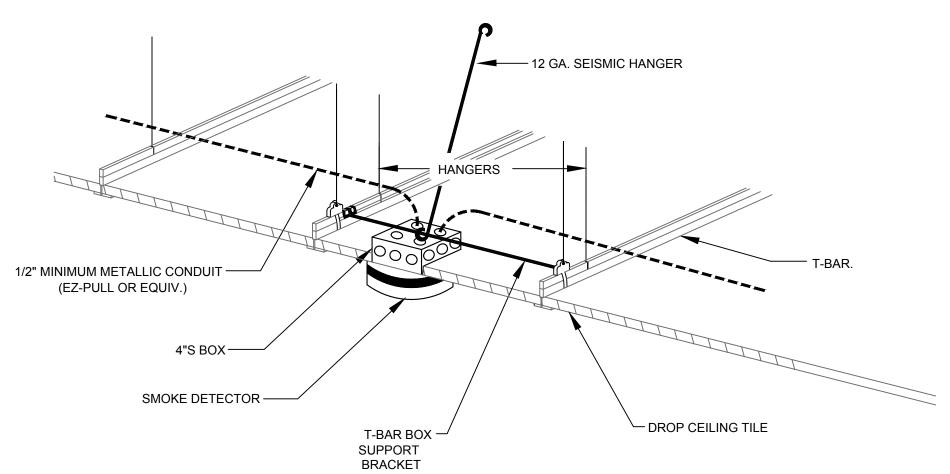
+DC





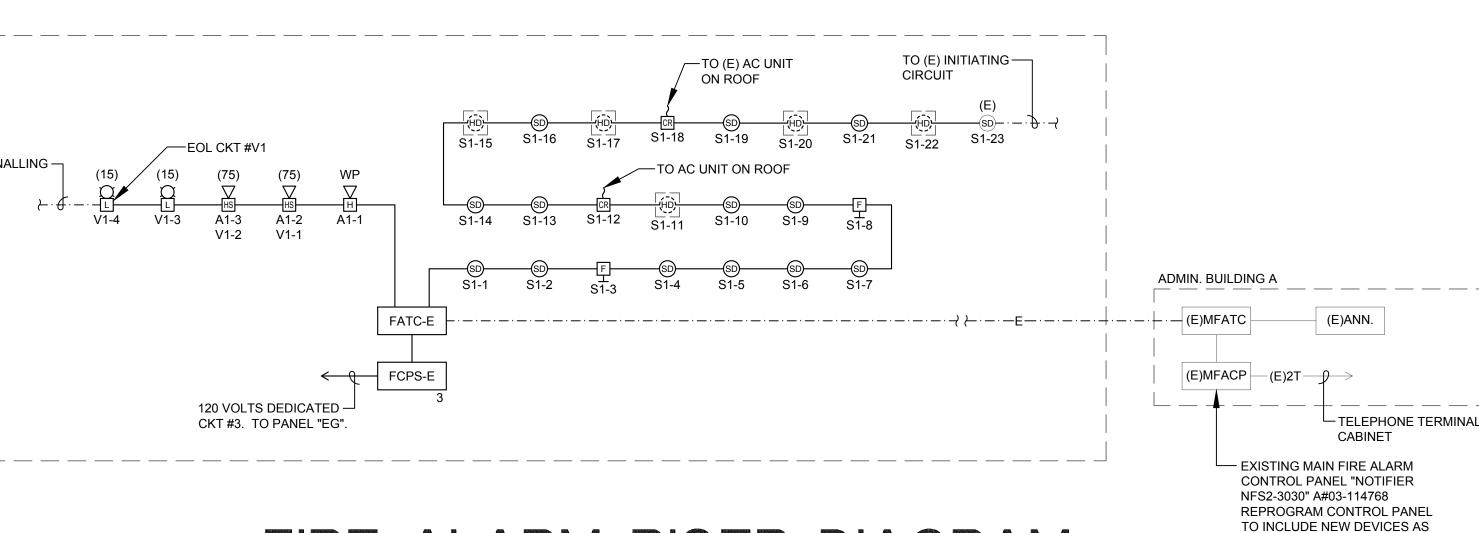


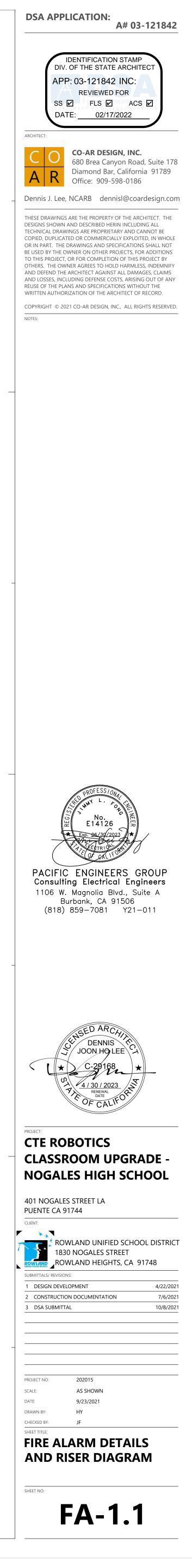
SUPPORT BRACKET TYPICAL SMOKE DETECTOR CEILING MOUNT INSTALLATION DETAIL 3 FA-1.1 N.T.S.

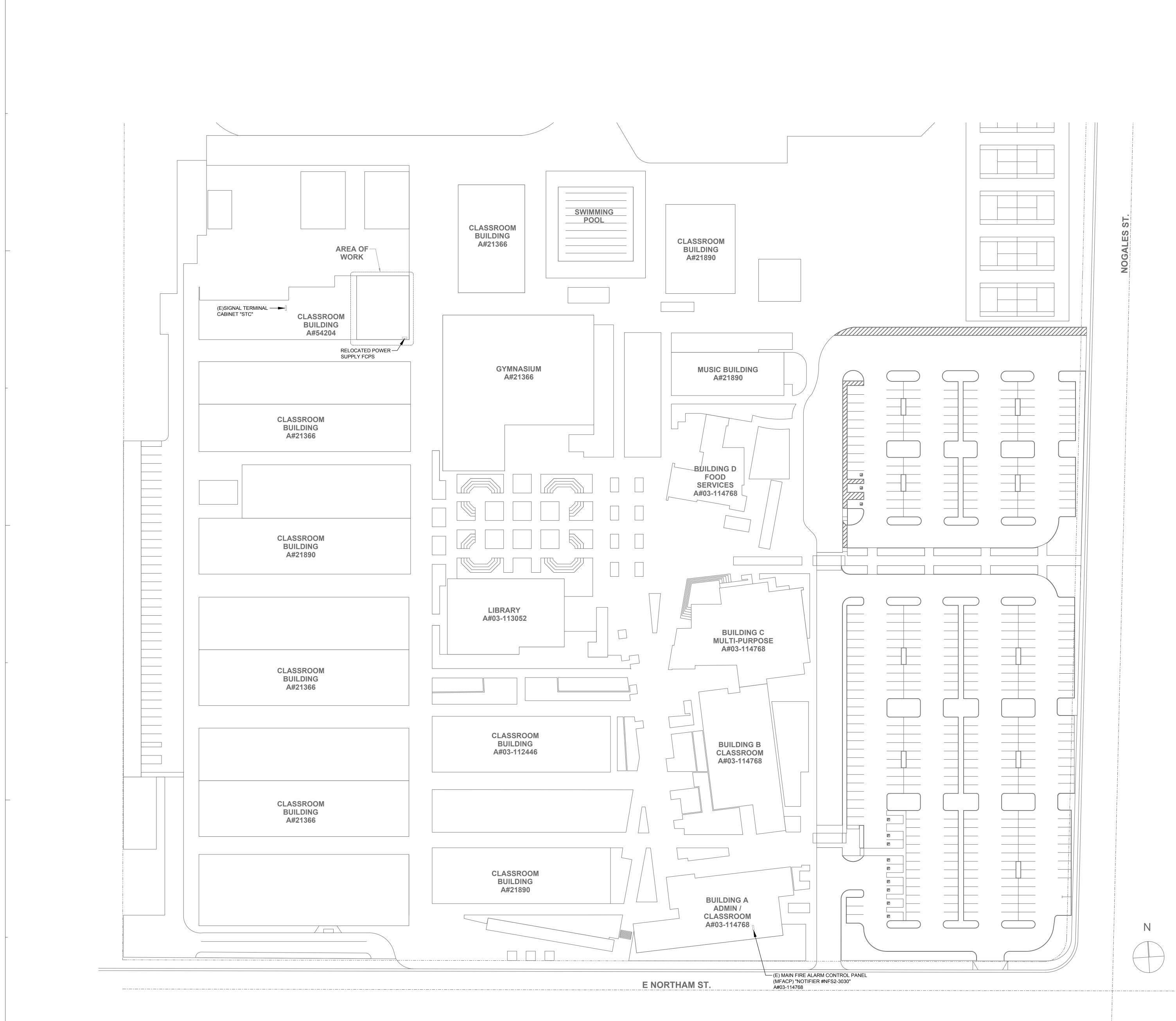


NOTED.

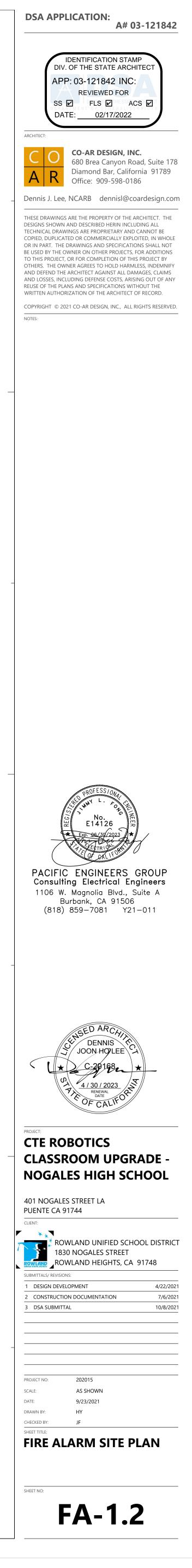
FIRE ALARM RISER DIAGRAM N.T.S.

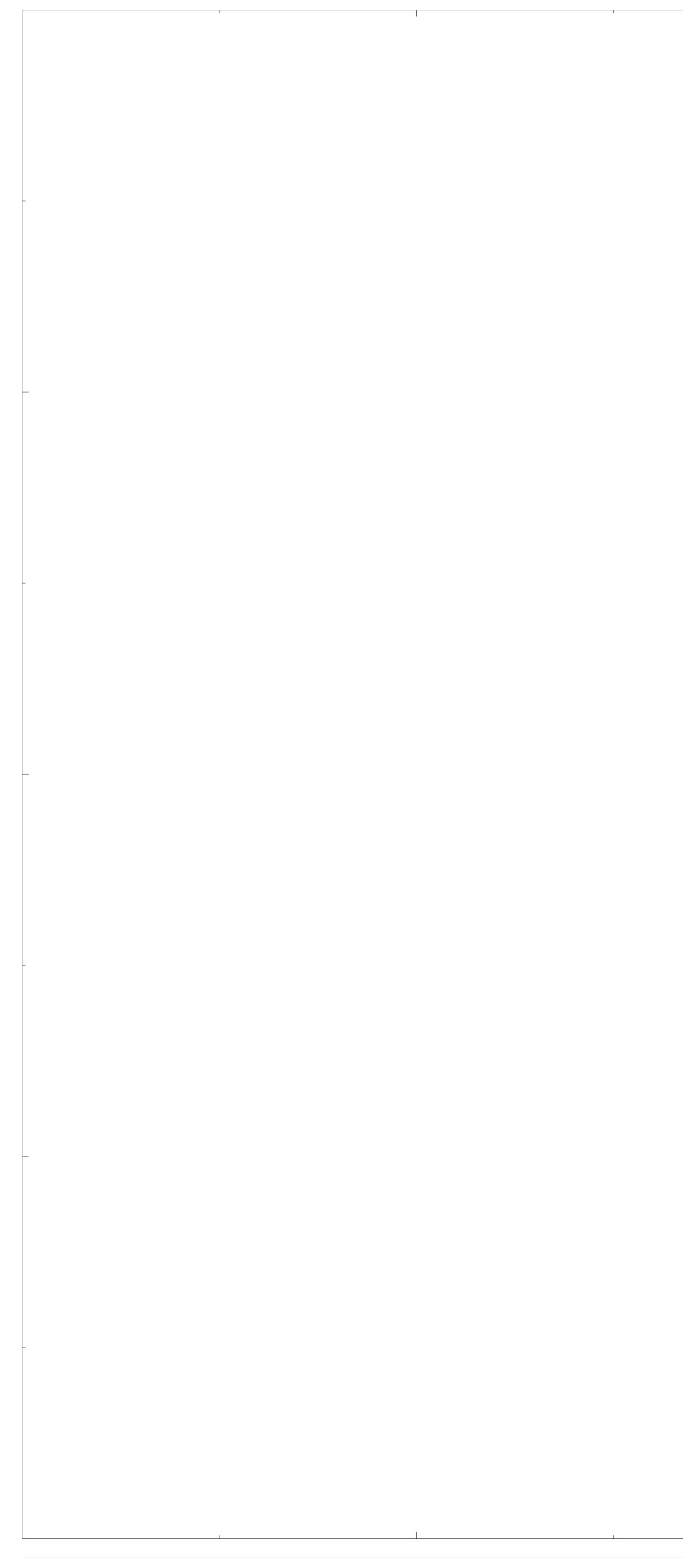


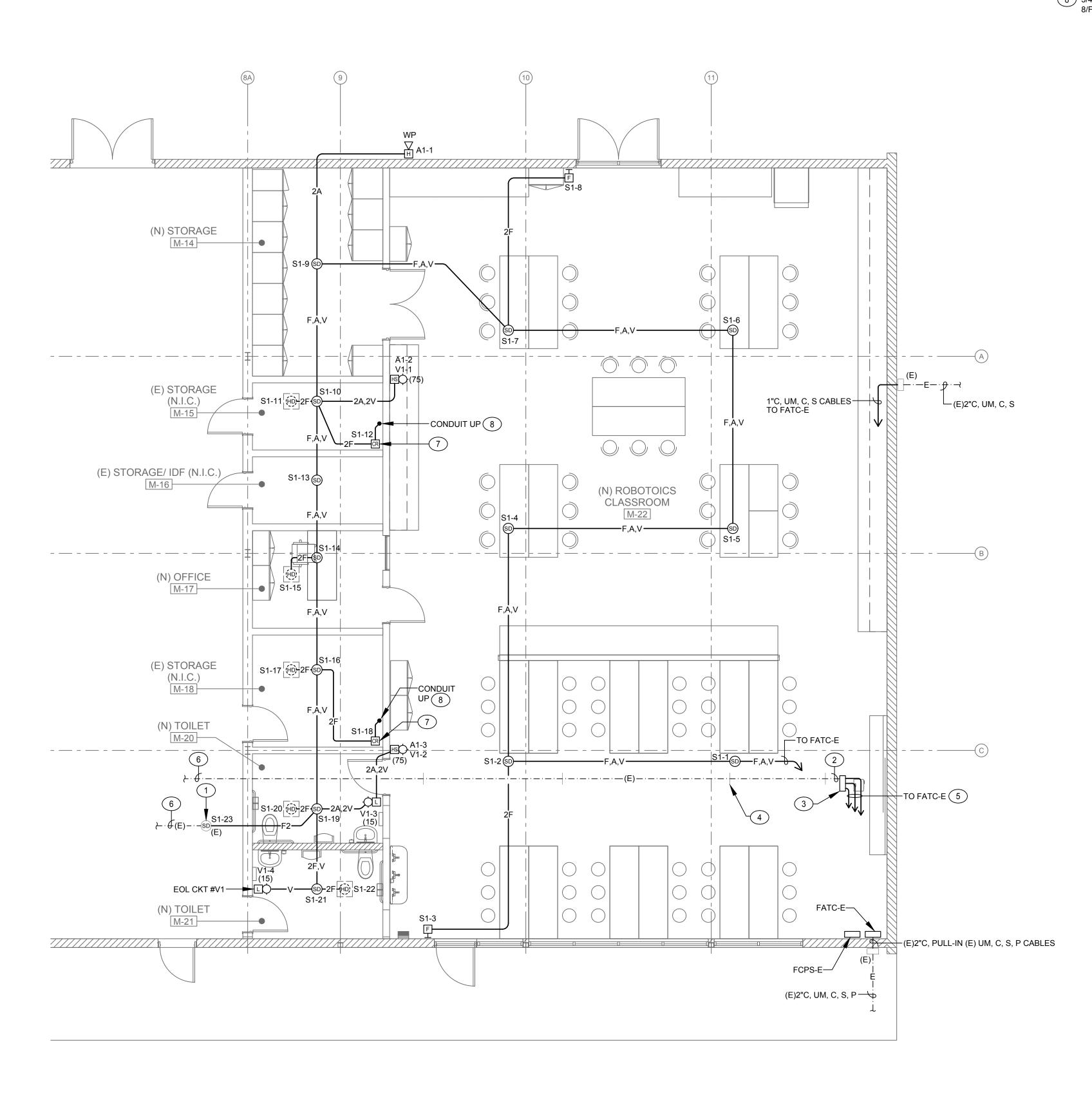




FIRE ALARM SITE PLAN SCALE: 1" = 40'







KEYED NOTES

1 EXISTING SMOKE DETECTOR FROM AS-BUILT SHEET EFA1.01, A#03-112147. TERMINATE NEW WIRES AND CONDUIT AS INDICATED.

2 EXISTING FIRE ALARM CONDUIT AND WIRES, INTERCEPT AND EXTEND TO FIRE ALARM TERMINAL CABINET (FATC) NEW LOCATION VIA NEW PULLBOX.

(3) NEW PULLBOX 6"x6"x16"LONG WITH TERMINAL STRIP. 4 EXISTING CONDUIT HANGER SUPPORT.

- (5) MATCH CONDUIT AND FIRE ALARM CABLES TO EXISTING.

6 TO EXISTING REMAINING DEVICES. (7) 4S-BOX WITH CONTROL RELAY MODULE. MOUNT HIGH ON WALL.

8 3/4"C, 2#12, CONNECT TO AC UNIT ON ROOF FOR AUTOMATIC SHUT-OFF. SEE WIRING DETAIL 8/FA-1.1.



