ART FREILER ES - TK CLASSROOM

2421 W LOWELL AVE TRACY, CA 95377

GENERAL NOTES

 CONSTRUCTION DOCUMENTS DESCRIBE THE PRODUCTS, SYSTEMS, QUANTITIES, CONFIGURATION, AND PERFORMANCE SPECIFICATIONS THAT DELIVER THE OVERALL DESIGN INTENT OF THE PROJECT. THE CONSTRUCTION DOCUMENT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY BOTH. PERFORMANCE BY THE CONSTRUCTION TEAM SHALL BE CONSISTENT WITH THE CONSTRUCTION DRAWINGS AND

SPECIFICATIONS AS NECESSARY TO DELIVER

THE INDICATED RESULTS OF THE DESIGN

- VERIFY ALL DIMENSIONS, LOCATIONS OF EXISTING UTILITIES, AND CONDITIONS ON THE JOB SITE PRIOR TO THE START OF WORK OR PORTIONS OF THE WORK. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE ACTUAL FIELD CONDITIONS AND THE CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS ARE INDICATED AS A RESULT OF FIELD OBSERVATIONS, INFORMATION SHOWN ON
- AVAILABLE DOCUMENTS AND FIELD CONDITIONS AT THE TIME OF PREPARATION. ALL MATERIALS AND WORKMANSHIP SHALI COMPLY WITH ALL GOVERNING CODES, ORDINANCES, REGULATIONS AND LAWS.
- THE DESIGN ADEQUACY AND SAFETY OF **ERECTION BRACING, SHORING, TEMPORARY** SUPPORTS AND SCAFFOLDING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.

NORTH ARROW

LOCATION ON SHEET

LOCATION ON SHEET

SECTION CALLOUT

LOCATION ON SHEET

DETAIL CALLOUT

LOCATION ON SHEET

FIRST FLOOR NAME OF ELEVATION (IF APPLICABLE)
+0' - 0" ELEVATION ABOVE FINISHED FLOOR

INDICATES A SIMILAR CONDITION

SHEET WHERE SECTION IS DRAWN

INDICATES A SIMILAR CONDITION

SHEET WHERE SECTION IS DRAWN

CONTROL OR DATUM POINT

TICK INDICATES PLAN NORTH

ELEVATION CALLOUT

ELEVATION CALLOUT

ARROW INDICATES TRUE NORTH

SHEET WHERE ELEVATION IS DRAWN

SHEET WHERE ELEVATION IS DRAWN

- 8. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS 9. DETAILS MARKED 'TYPICAL' SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY NOTED OTHERWISE
- 10. ENACT ALL MEASURES TO PROTECT AND SAFEGUARD ALL EXISTING ELEMENTS TO REMAIN FROM BEING DAMAGED. REPLACE OR REPAIR EXISTING ELEMENTS DAMAGED BY THE EXECUTION OF THIS CONTRACT TO EQUAL OR BETTER CONDITION.

SYMBOL LEGEND

AX.XX

- 1. PRIOR TO THE START OF WORK THE CONTRACTOR SHALL COORDINATE BETWEEN THE REQUIREMENTS OF ALL DISCIPLINES HEREIN AND BETWEEN THE REQUIREMENTS OF ALL DRAWINGS AND SPECIFICATIONS IN ORDER THAT ALL ITEMS SATISFACTORILY RELATE TO ONE ANOTHER. NOTIFY ARCHITECT
- IMMEDIATELY REGARDING ANY ITEMS THAT CANNOT BE COORDINATED 12. CONTRACTOR SHALL EXCERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, CONDUIT. ETC. AND TO PREVENT HAZARD TO PERSONNEL AND/OR TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT
- INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. 3. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE EXISTING OR NEW STRUCTURAL ELEMENTS SHALL NOT TO BE STARTED UNTIL THE DETAILS HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT, AND STRUCTURAL ENGINEER OF RECORD. 14. ALL WORK SHALL CONFORM TO 2022 EDITION

TITLE 24, CALIFORNIA CODE OF REGULATION

- 5. THE LIMIT OF WORK LINE SHOWS THESE DRAWINGS IS AN APPROXIMATE LIMIT OF WORK ONLY, REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL WORK, INCLUDING BUT NOT LIMITED TO INSTALLATION OF CONDUIT, MANHOLES, PULLBOXES, ETC WHICH ARE TO BE PART OF THIS WORK, ALTHOUGH OCCURING OUTSIDE OF SHOWN LIMIT OF WORK LINES.
- 6. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS
- '. CHANGE TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24 CCR.

mmmmm

18. A "DSA CERTIFIED" CLASS 1 & RBIP PROJECT 3/A INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF WORK THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. 19. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT ARCHITECT OF RECORD, STRUCTURAL ENGINEER OF RECORD, OWNER, INSPECTOR OR RECORD, AND THE DSA FIELD ENGINEER THE REPORTS OF ANY FAILURES OF TESTS AND INSPECTIONS ARE TO BE SUBMITTED TO DSA DISTRICT STRUCTURAL ENGINEER. GRADING PLANS DRAINAGE IMPROVEMENTS ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES ALL CONSTRUCTION AND DEMOLITION SHALL BE IN ACCORDANCE WITH CHAPTER 33 OF THE

SAFETY PLAN. 22. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR,, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO

CBC AND CFC, AND THE WRITTEN SITE FIRE

AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR) 23. CONTRACTOR IS TO REVIEW AND COMPLY WITH ALL REQUIREMENTS AND MITIGATION MEASURES SET FORTH IN BOTH THE ENVIRONMENTAL IMPACT REPORT (ADDENDUM TO THE ENVIRONMENTAL IMPACT REPORT | SCH NO. 2002071120) INCLUDING ATTACHED BIOLOGICAL RESOURCES

4. NO DUMPING OR PLACING OF ANY DIRT OR

CONTRACTORS LIMIT OF WORK AREA.

FOR THIS PROJECT

DOOR CALLOUT

MATERIAL FINISH TYPE

(SEE FINISH SCHEDULE)

WINDOW CALLOUT

(SEE WINDOW SCHEDULE)

WINDOW NUMBER

KEYNOTE

INTERIOR FINISH CALLOUT

KEYNOTE NUMBER (SEE LEGEND ON SHEET)

DOOR NUMBER

DEBRIS SHALL BE ALLOWED OUTSIDE OF THE

25. A CLASS 1 IN-PLANT INSPECTOR IS REQUIRED

| PART | IAL LIST OF APPLICABLE CODES | PARTIAL LIS | T OF APPLICABLE STANDARDS |
|------|---|-------------|---|
| 2022 | CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R. | NFPA 13 | STANDARD FOR AUTOMATIC FIRE SPRINKLER SYSTEMS (C |
| 2022 | CALIFORNIA BUILDING CODE (CBC), PART 2, | | AMENDED) |
| | TITLE 24 C.C.R. | NFPA 14 | STANDARD FOR STANDPIPE |
| | (2021 INTERNATIONAL BUILDING CODE | | AND HOSE SYSTEMS (CA |
| | VOLUMES 1 & 2 AND 2022 CALIFORNIA | | AMENDED) |
| | AMENDMENTS) | NFPA 17 | STANDARD FOR DRY |
| 2022 | CALIFORNIA ELECTRICAL CODE (CEC), PART 3, | | CHEMICAL EXTINGUISHING |
| | TITLE 24 C.C.R. | NED 4 474 | SYSTEMS |
| | (2020 NATIONAL ELECTRICAL CODE AND 2022 | NFPA 17A | STANDARD FOR WET |
| 2000 | CALIFORNIA AMENDMENTS) | | CHEMICAL EXTINGUISHING |
| 2022 | CALIFORNIA MECHANICAL CODE (CMC) PART | NEDA OO | SYSTEMS |
| | 4, TITLE 24 C.C.R. | NFPA 20 | STANDARD FOR STATIONARY PUMPS FOR FIRE PROTECTION |
| | (2021 UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS) | NFPA 22 | STANDARD FOR WATER |
| 2022 | CALIFORNIA AMENDIMENTS) CALIFORNIA PLUMBING CODE (CPC), PART 5, | NFFA 22 | TANKS FOR PRIVATE FIRE |
| 1022 | TITLE 24 C.C.R. | | PROTECTION |
| | (2021 UNIFORM PLUMBING CODE AND 2022 | NFPA 24 | STANDARD FOR THE |
| | CALIFORNIA AMENDMENTS) | NIIAZŦ | INSTALLATION OF PRIVATE |
| 022 | CALIFORNIA ENERGY CODE (CEC), PART 6, | FIRE | MAINS AND THEIR |
| .022 | TITLE 24 C.C.R. | ' '' ' ' | APPURTENANCES (CA |
| 2022 | CALIFORNIA HISTORICAL BUILDING CODE | | AMENDED) |
| | (CHBC), PART 8, TITLE 24 C.C.R. | NFPA 72 | NATIONAL FIRE ALARM & |
| 2022 | CALIFORNIA FIRE CODE, PART 9, TITLE 24 | | SIGNALING CODE (CA |
| | C.C.R. | | AMENDED) |
| | (2021 INTERNATIONAL FIRE CODE AND 2022 | NFPA 80 | STANDARD FOR FIRE DOORS |
| | CALIFORNIA AMENDMENTS) | | AND OTHER OPENING |
| 2022 | CALIFORNIA EXISTING BUILDING CODE (CEBC), | | PROTECTIVES |
| | PART 10, TITLE 24 C.C.R. | NFPA 2001 | STANDARD ON CLEAN AGEN |
| | (2021 INTERNATIONAL EXISTING CODE AND | | FIRE EXTINGUISHING SYSTEM |
| | 2022 CALIFORNIA AMENDMENTS) | | (CA AMENDED) |
| 2022 | CALIFORNIA GREEN BUILDING STANDARDS | UL 300 | STANDARD FOR FIRE TESTIN |
| | CODE (CALGREEN), PART 11, TITLE 24 C.C.R. | | OF FIRE EXTINGUISHING |
| 2022 | CALIFORNIA REFERENCED STANDARDS, PART | | SYSTEMS FOR PROTECTION |
| | 12,TITLE 24 C.C.R. | | OF COMMERCIAL COOKING |

TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE

ELEVATORS AND ESCALATORS

FOR A COMPLETE LIST OF APPLICABLE NFPA

STATE OF CALIFORNIA AMENDMENTS TO NFPA

AND CALIFORNIA FIRE CODE CHAPTER 80.

ABBREVIATIONS

AFF

ARCH

AUTO

CABT

CFOI

CLF

CMU

COORD

CORR

CTSK

DEPR

DS

E/W

SYSTEM

ELEC

ENCL

EXP

FDC

FSH

FIN

FLR

FOC

FOM

FOS

EXISTING

ANCHOR BOLT

AGGREGATE

ARCHITECTURAL

ATTENUATION

AUTOMATIC

BLOCKING

CUBIC FFFT

ACCESS/ACCESSIBLE

ASPHALTIC CONCRETE PAVING

ACOUSTICAL CEILING PANEL

ACOUSTICAL CEILING TILE

ADJACENT/ADJUSTABLI

ABOVE FINISH FLOOR

AIR HANDLING UNIT

BUILT UP ROOFING

CONTRACTOR FURNISHED.

CONTRACTOR INSTALLED

CONTRACTOR FURNISHED.

CONCRETE MASONRY UNIT

COMPRESSION / COMPOSITE

DEPRESSED / DEPRESSION

EXTERIOR INSULATION FINISH

OWNER INSTALLED

CORNER GUARD

CHAIN LINK FENCE

CONTROL JOINT

CENTER LINE

CLEANOUT

COORDINATE

CORRUGATED

CERAMIC TILE

CURTAINWALL

DIMENSION

DISPENSER

DOWNSPOUT

DISHWASHER

ELECTRICAL

EDGE OF SLAB

EXPOSED

FIRE ALARM

FLOOR DRAIN

FINISH FLOOR

FINISH GRADE

FIRE HYDRANT

FI OOR

FIRE HOSE CABINET

FLAT HEAD SCREW

FACE OF CONCRETE

FACE OF MASONRY

FIRE RATED GLASS

FACE OF FINISH

FACE OF STUD

FIREPROOFING

FIRE RATED

ELECTRICAL PANEL

FIRE EXTINGUISHER

EXPANSION JOINT

ELEVATION / ELEVATOR

ENCLOSE / ENCLOSURE

ELECTRIC WATER COOLER

FIRE DEPARTMENT CONNECTION

FIRE EXTINGUISHER W/ CABINET

EACH WAY

COUNTER SKUNK

DRINKING FOUNTAIN

ASME 18.1 - SAFETY STANDARD FOR

ASME A17.1/B44-19 SAFETY CODE FOR

MARSHAL REGULATIONS.

PROTECTION STANDARD FOR THE INSTALLATION OF PRIVATE MAINS AND THEIR APPURTENANCES (CA AMENDED) NATIONAL FIRE ALARM & 2022 ED. SIGNALING CODE (CA AMENDED) STANDARD FOR FIRE DOORS 2019 ED. AND OTHER OPENING STANDARD ON CLEAN AGENT 2018 ED. FIRE EXTINGUISHING SYSTEMS (CA AMENDED STANDARD FOR FIRE TESTING 2005 OF FIRE EXTINGUISHING (R2014) SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING **EQUIPMENT** AUDIBLE SIGNAL APPLIANCES 2003 ED FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES PLATFORM LIFTS AND STAIRWAY CHAIR LIFTS UL 521 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING STANDARD FOR SIGNALING 2002 ED. DEVICES FOR THE HEARING (R2018) STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 STANDARD FOR BLEACHERS, 2017 ED. FOLDING AND TELESCOPING SEE CALIFORNIA BUILDING CODE, CHAPTER 35 FOR

SEATING AND GRANDSTANDS

FIBERGLASS REINFORCED PLASTIC

PTD

RECEPT

REM

SCHED

SECT

SND

SOV

SPEC

STSMS

SCREW

SUSP

T&B

TPD

VTR

VWC

W/O

WD

WDW

WGT

WSCT

WWF

FIRE RETARDANT TREATED

GLASS FIBER REINFORCED

GLUE LAMINATED BEAM

HOLLOW STEEL SECTION

LONG LEG HORIZONTAL

MEDIUM DENSITY FIBERBOARD

NOISE REDUCTION COEFFICIENT

OWNER FURNISHED, CONTRACTOR

OWNER FURNISHED, OWNER

OWNER FURNISHED, VENDOR

OVERFLOW ROOF DRAIN

POWDER ACTUATED FASTENER

PORTLAND CEMENT CONCRETE

MEDIUM DENSITY OVERLAY

LONG LEG VERTICAL

FINISH SURFACE

FOOTING

GFRC

GYP PLAS

HDWR

LANDS

MDO

MED

MEMB

OFOI

PERF

PLUMB

POLY ISO

MECH

GRAB BAR

CONCRETE

GLASS TYPE

HOSE BIBB

HEADER

HEIGHT

HEAVY DUTY

HARDWARE

HIGH POINT

INTERIOR

LANDSCAPE

LAVATORY

LOW POINT

LOUVER

MACHINE

LIGHT WEIGHT

MACHINE BOLT

MECHANICAL

MEMBRANE

MANUFACTURER

MASONRY OPENING

NOT IN CONTRACT

OUTSIDE DIAMTER

MEDIUM

MANHOLE

MOUNTED

NON RATED

OVERALL

NOT TO SCALE

ON CENTER

INSTALLED

INSTALLED

OPFRABI F

OPENING

PAVING

PLASTER

PANEL

PLUMBING

PEDESTRIAN

PERIMETER

PERFORATED

PERPENDICULAR

PANIC HARDWARE

PLASTIC LAMINATE

PAINT / PAINTED

PREFINISHED

POST INDICATOR VALVE

POINT OF CONNECTION

POLYISOCYANURATE

PREP / PREPARATION

OPPOSITE HAND

PROPERTY LINE

PUBLIC ADDRESS

INVFRT

HOLLOW METAL

INSIDE DIAMTER

GYPSUM BOARD

GYPSUM PLASTIC

FIRE SPRINKLER SYSTEMS (CA

PUMPS FOR FIRE PROTECTION

STANDARD FOR STANDPIPE 2019 ED.

STANDARD FOR STATIONARY 2019 ED.

STATEMENT OF GENERAL CONFORMANCE

THE DRAWINGS OR SHEETS LISTED ON THE INDEX SHEET THIS DRAWING PAGE OF SPECIFICATIONS/CALCULATIONS STANDARD FOR AUTOMATIC 2022 ED. HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

> DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME. COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344" OF TITLE 24, PART 1. (TITLE 24, PART 1, SECTION 4-317 (B))

THE PC APPROVED MANUFACTURER DRAWINGS PC# 04-122050 LISTED ON THE INDEX SHEET ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN INTENT, AND THEY HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

03/03/25 ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE JENNIFER HUANG PRINT NAME

POST TENSIONED CONCRETE

PAPER TOWEL DISPENSER

PNEUMATIC TUBE STATION /

POLYVINYL CHLORIDE

PAVEMENT

QUARRY TILE

ROOF DRAIN

ECEPTACLE

RADIUS, RISER

RESILIENT BASE

REFLECT(ED), (IVE)

REFLECT(ED), (IVE)

REINFORCE/REINFORCED/

REFRIGERATOR

REINFORCEMENT

ROUGH OPENING

RIGHT OF WAY

SAFETY GLASS

SHEATHING

SUSPENDED

SHEET VINYL

SYMMETRICAL

TOP AND BOTTOM

TOP OF PARAPET

TOP OF STEEL

TOP OF WALL

VACUUM

WITHOUT

WOOD

WINDOW

WFIGHT

WOOD BASE

WATER CLOSET

WATER HEATER

PROTECTION

WOOD SCREW

DRAWINGS ARE CONSIDERED STANDARDS IN

THE BUILDING INDUSTRY. CONTACT ARCHITECT

WAINSCOT

OTHER ABBREVIATIONS USED ON THESE

FOR NECESSARY CLARIFICATION.

WATER RESISTANT

WATERPROOFING/WALL

WELDED WIRE FABRIC

WATER RESISTANT GYPSUM

SECTION

ROUND HEAD SCREW

SCHEDULE (FOR PIPE)

SHEET METAL SCREW

SHUT OFF VALVE

SPECIFICATIONS

STAINLESS STEEL

SANITARY NAPKIN DISPOSAL

SOUND TRAMISSION CLASS

SELF TAPPING SHEET METAL

TOP OF CURB / CONCRETE

TOILET PAPER DISPENSER

UNDER CABINET (OR COUNTER

UNLESS NOTED OTHERWISE

VINYL COMPOSITION TILE

VENT THROUGH ROOF

VINYL WALL COVERING

TACKABLE SURFACE

VAPOR BARRIER

SCHEDULE / SCHEDULING

STORM DRAIN / SOAP DISPENSER

ROUND HEAD

C-35691 LICENSE NUMBER

THIS PROJECT WILL NOT BE CERTIFIED UNTIL DSA #02-120126 IS CERTIFIED

PROJECT DESCRIPTION SHEET INDEX

-Construction and installation of (1) new 36'x40' PC Portable TK Classroom building by AMS. Construction of concrete foundations for the portable classroom building

 Construction of chain link fences and gates. -Related civil site concrete and site utilities. -Related electrical site utilities, and building low voltage. -Removal and replacement of existing ADA parking lot

All other items as shown on the drawings for a complete project SUBSTITUTIONS AFFECTING ITEMS REGULATED BY THE DIVISION OF THE STATE ARECHITECT (DSA) REQUIRE DSA APPROVAL AS AN ADDENDUM OR A

CONSTRUCTION CHANGE DOCUMENT (CCD). DSA APPROVAL SHALL BE OBTAINED PRIOR TO FABRICATION AND/OR INSTALLATION PER SECTION 4-338, PART 1, TITLE 24, CCR.

THE CALIFORNIA ENERGY CODE SECION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH ENERGY

BE PERFORMED BY A CERTIFIED LIGHT CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT) MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT

OCTOBER 1,2021. A LISTING OF CERTIFIED ATT CAN BE FOUND AT: https://www.energy.ca.gov/programs-and-topics/progora ms/acceptance-test-technician-certified-provider-progora

FOR PROJECTS SUBMITTED ON OR AFTER

THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED

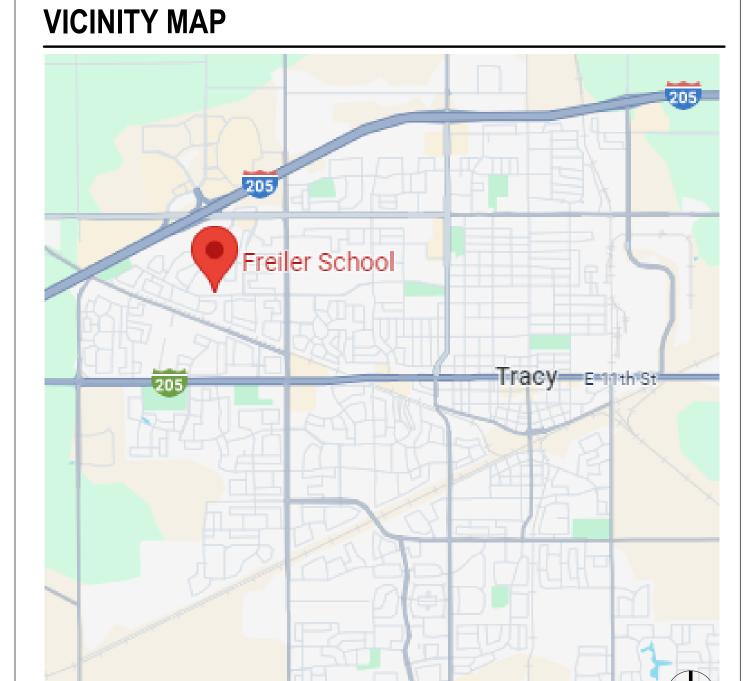
ACCEPTANCE CRITERIA. PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

NONE

m/acceptance.

ALTERNATES

DEFERRED ITEMS



G0.10 COVER SHEET G1.51 LOCAL FIRE AUTHORITY SITE PLAN

CIVIL GENERAL NOTES AND ABBREVIATIONS C0.1 DEMOLITION PLAN GRADING AND PAVING PLAN UTILITY PLAN

SITE PLAN AND CODE INFORMATION A7.10 ENLARGED SITE PLAN

A10.01 DETAILS

ELECTRICAL SCHEDULES, ONE-LINES, & GENERAL NOTES POWER & SIGNAL SITE PLAN

POWER AND SIGNAL ENLARGED PLAN -

RELOCATABLE CLASSROOM POWER & SIGNAL DETAILS FIRE ALARM GENERAL NOTES, RISER DIAGRAM & SCHEDULES FIRE ALARM SITE PLAN FIRE ALARM ENLARGED PLAN -

AMS CLASSROOM DRAWINGS N3.0-N TYPICAL SCHEDULES - DOORS, WINDOWS & LIGHTING CONTROLS ACCEPTANCE TESTS MUST A1.0-N TYPICAL FLOOR PLAN

A1.2-N RESTROOM FLOOR PLAN OPTIONS - AGE RANGE 3-4 A4.0-N INTERIOR ELEVATIONS TYPICAL CLASSROOM A4.1-N INTERIOR ELEVATIONS RESTROOM OPTIONS A5.4-N TYPICAL EXTERIOR ELEVATIONS - LAP SIDING OPTION M1.0-N TYPICAL REFLECTED CEILING PLAN

RELOCATABLE CLASSROOM

M1.1A-N TYPICAL MECHANICAL PLAN E1.0-N TYPICAL ELECTRICAL PLAN E1.2-N ELECTRICAL NOTES & DETAILS P1.0-N RESTROOM OPTIONS PLUMBING PLAN &

SHEET INDEX FORM DSA-103 FORM DSA-103 **GENERAL NOTES & SPECIFICATIONS**

FIXTURE SCHEDULE

BELOW GRADE CONCRETE MIX DESIGN N1.0A GENERAL NOTES & SPECIFICATIONS TYPICAL SCHEDULES - DOORS, WINDOWS &

ACCESSIBILITY STANDARDS AND DETAILS **ENERGY CALCULATIONS SUMMATION SHEET ENERGY CALCULATIONS SUMMATION SHEET** ENERGY CALCULATIONS 36'x40' BUILDING ENERGY CALCULATIONS 3G'x40' BUILDING ENERGY CALCULATIONS SUPPLEMENTAL

ENERGY CALCULATIONS SUPPLEMENTAL **ENERGY CALCULATIONS SUPPLEMENTAL**

TYPICAL FLOOR PLAN RESTROOM FLOOR PLAN OPTIONS - AGE

TYPICAL ROOF PLAN METAL STANDING SEAM (WITHOUT PARAPETS) TYPICAL ROOF DETAILS METAL STANDING INTERIOR ELEVATIONS TYPICAL CLASSROOM

INTERIOR ELEVATIONS RESTROOM OPTIONS TYPICAL EXTERIOR ELEVATIONS - LAP SIDING OPTION TYP. ARCHITECTURAL DETAILS - LAP SIDING MISCELLANEOUS ARCHITECTURAL DETAILS

TYPICAL LONGITUDINAL AND TRANSVERSE STEEL MEMBER PROPERTIES CONCRETE FOUNDATION PLAN (50PSF LIVE LOAD + 15PSF FLOOR PARTITION LOAD) CONCRETE FOUNDATION DETAILS CONCRETE FOUNDATION DETAILS

STANDARD ANCHORAGE FOUNDATION UPGRADED ANCHORAGE FOUNDATION CONCRETE FOUNDATION OPTIONAL UTILITY OPENINGS IN FOOTINGS

FLOOR FRAMING PLAN & DETAILS FOR PLYWOOD FLOOR ROOF FRAMING PLAN AND DETAIL CROSS BRACING OPTION ROOF FRAMING DETAILS CROSS BRACING

MOMENT FRAME ELEVATIONS & DETAILS MOMENT FRAME CONNECTION DETAILS WALL FRAMING ELEVATIONS & SCHEDULES WOOD STUDS WALL FRAMING DETAILS - WOOD STUDS

TYPICAL REFLECTED CEILING PLAN M1.1A TYPICAL MECHANICAL PLAN OPTIONS MECHANICAL AND CEILING DETAILS MECHANICAL & CEILING DETAILS MECHANICAL ROOF DETAILS CEILING NOTES & SPECIFICATIONS MECHANICAL NOTES & SCHEDULES TYPICAL ELECTRICAL PLAN

ELECTRICAL NOTES & DETAILS RESTROOM OPTIONS PLUMBING PLAN & FIXTURE SCHEDULE PLUMBING DETAILS & ACCESSIBLE DETAILS P3.0 PLUMBING ISOMETRICS DRAWINGS

TOTAL SHEET COUNT: 79

HMC Architects

3595005000

AGENCY

APPROVAL:

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITE

SS 🗹 FLS 🗹 ACS 🗹

C-35691

REN. 05/31/25

APP: 02-122975 INC: REVIEWED FOR

2101 CAPITOL AVENUE, SUITE 100) SACRAMENTO, CA 95816 (916) 368-7990 / WWW.HMCARCHITECTS.COM

TRACY UNIFIED SCHOOL DISTRICT 1875 LOWELL AVE, TRACY, CA 95376 (209) 830-3245

ARCHITECT

HMC ARCHITECTS

2101 CAPITOL AVE, SUITE 100, SACRAMENTO, CA 95816 (916) 368-7990

CIVIL ENGINEER

WARREN CONSULTING ENGINEERS 1117 WINDFIELD WAY, SUITE 110 EL DORADO HILLS, CA 95762

ELECTRICAL ENGINEER

OPTIMIZED ENERGY AND **FACILITIES CONSULTING**

5734 LONETREE BLVD, ROCKLIN, CA 95765 (916) 626-5518

ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE **TRACY. CA 95377**

PROJECT: ART FREILER ES - TK CLASSROOM

SHEET NAME: **COVER SHEET**

CONSTRUCTION DOCUMENTS

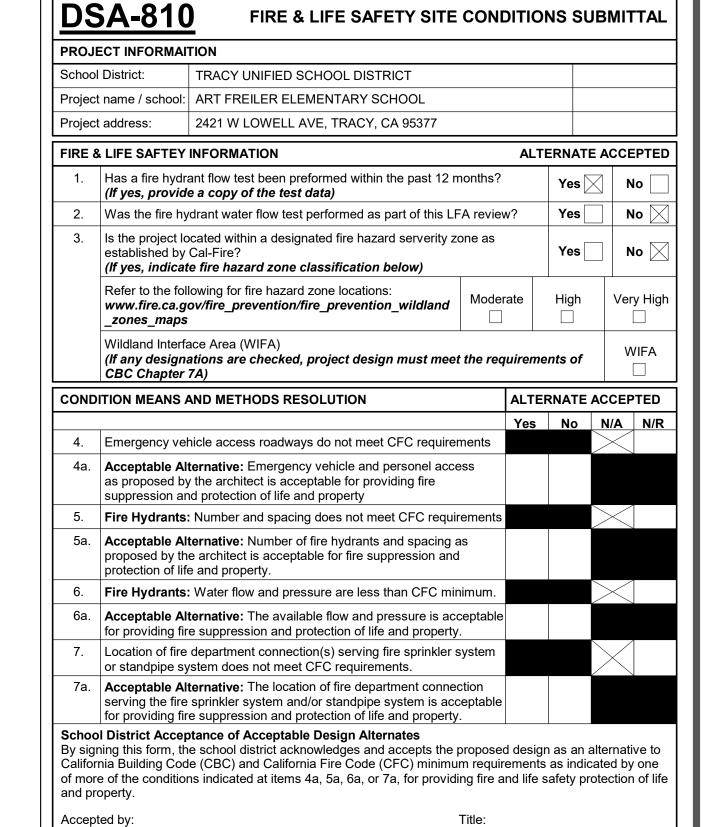
DATE: 04/03/2024 CLIENT PROJ NO: 3595005000

PLEASE RECYCLE 🖧

(E) GRASS FIELD UNIT P11 UNIT P10 DSA# 02-122126 (E) FIRE LANE PER DSA #02-110782 PLAY APPARATUS LFA Agency Name: UNIT P6 P5 P9 **UNIT P8** UNIT F DSA #02-102057 /(E) LUNCH SHELTER/ UNIT B DSA #02-102057 (E) FIRE HÝDRANT— UNIT C DSA #02-102057 UNIT A DSA #02-102057 UNIT E DSA #02-102057 UNIT H DSA #02-102057 UNIT D DSA #02-102057 (E) FIRE LANE PER UNIT G DSA #02-110782-DSA #02-102057 UNIT SN.02--(E)FIRE LANE PER UNIT DŚA #02-110782 #02-106809 PLAY APPARATUS W. LOWELL AVE.

| LEGEND | | | | | | | | | | |
|--------|------------------------|---------|------------------------|--|--|--|--|--|--|--|
| х | NEW BUILDINGS | | PROPERTY LINE | | | | | | | |
| X | EXISTING BUILDINGS | × × × | (E) CHAIN LINK FENCE | | | | | | | |
| 4 4 4 | CONCRETE WALK / PAVING | G | (E) ORNAMENTAL FENCE | | | | | | | |
| | AC PAVING | ∳ FH | (E) FIRE HYDRANT (NTS) | | | | | | | |
| | (E) FIRE LANE | | | | | | | | | |

LOCAL FIRE AUTHORITY REVIEW



EMERGENCY RESPONDER RADIO COVERAGE

Work Phone:

NEW BUILDINGS SHALL BE PROVIDED WITH EMERGENCY RESPONDER RADIO COVERAGE IN ACCORDANCE WITH CALIFORNIA FIRE CODE SECTIO 510. THE PROJECT ARCHITECT (AOR) SHALL CONTACT THE LOCAL FIRE DEPARTMENT AND/OR EMERGENCY COMMUNICATIONS AUTHORITY TO OBTAIN DESIGN, EQUIPMENT SPECIFICATIONS, TESTING AND ACCEPTANCE CRITERIA. PLANS AND REQUEST DOCUMENTATION SHALL BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL. UPON COMPLETION, COPIES OF THE APPROVED PLANS, EQUIPMENT DATA SHEETS, TESTING AND ACCEPTANCE DOCUMENTATION SHALL BE PROVIDED TO THE SCHOOL DISTRICT.

SEE OTHER SHEETS FOR CONSTRUCTION

THIS PLAN INCLUDES INFORMATION FOR LOCAL FIRE AUTHORITY APPROVAL ONLY. REFER TO OTHER SHEETS FOR SITE CONSTRUCTION DETAILS.

FIRE FLOW TEST

LOCAL FIRE AUTHORITY SITE PLAN

1" = 40'-0"

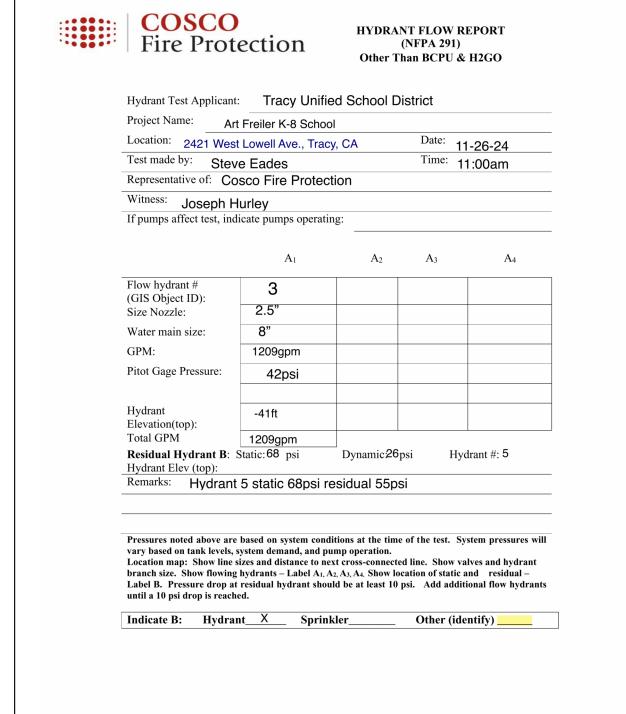
Signature:

LFA Review Official:

LFA Reviewer's Signature:

Work Email:

LOCAL FIRE AUTHORITY (LFA) INFORMATION



3850 Atherton Road Rocklin, CA 95765 | PH 916-652-1306 | FAX 916-652-1307 | C-10/C-16 577621 | www.coscofire.com

AGENCY APPROVAL:

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 02-122975 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

DATE



HMC Architects

3595005000

2101 CAPITOL AVENUE, SUITE 100 SACRAMENTO, CA 95816

916 368 7990 / www.hmcarchitects.com

△ **DESCRIPTION**

SHEET NOTES

SN.01 (E) FIRE HYDRANT SN.02 (E) 20' - 0" GATE WITH KNOX BOX

FACILITY:

ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE TRACY, CA 95377

PROJECT: ART FREILER ES - TK CLASSROOM

SHEET NAME: LOCAL FIRE AUTHORITY SITE PLAN

DATE: 04/03/2024 CLIENT PROJ NO: 359500500

PLEASE RECYCLE 🖧

ABBREVIATIONS NOTE: NOT ALL ABBREVIATIONS MAY BE USED ON THESE PLANS. AGGREGATE BASE

ASPHALTIC CONCRETE AREA DRAIN ASSESSOR'S PARCEL NUMBER AIR RELEASE VALVE AGGREGATE SUB-BASE BLOW-OFF VALVE BUTTERFLY VALVE BACK OF WALK

ARV ASB CENTERLINE CATCH BASIN CLASS

CORRUGATED METAL PIPE CATV CABLE TELEVISION CLEANOUT CO COMMUNICATION CONC. CONCRETE CONSTRUCT CURB RETURN

CONST. CONCRETE SURFACE DOUBLE CHECK VALVE DOUBLE DETECTOR CHECK VALVE DECOMPOSED GRANITE DROP INLET DIAMETER DUCTILE IRON PIPE DWG DRAWING DOWNSPOUT

ELECTRIC EDGE OF PAVEMENT **ESMT** EASEMENT EXISTING FIRE SERVICE LINE FIRE DEPARTMENT CONNECTION FLOWLINE SANITARY SEWER FORCE MAIN FINISHED FLOOR ELEVATION FIRE HYDRANT GRATE ELEVATION GRADE ELEVATION

GATE VALVE HOSE BIBB HEADER BOARD HIGH DENSITY POLYETHYLENE PIPE HIGH POINT PIPE INVERT ELEVATION JOINT UTILITY POLE LINEAL FEET LIP OF GUTTER LEFT

MOWSTRIP NOT TO SCALE OVERHEAD PORTLAND CEMENT CONCRETE PLANTER DRAIN POST INDICATOR VALVE PROPERTY LINE POWER POLE PUBLIC UTILITY EASEMENT POLYVINYL CHLORIDE REINFORCED CONCRETE PIPE

RADIUS MANHOLE RIM ELEVATION (SOLID COVER) REDUCED PRESSURE BACKFLOW PREVENTER RIGHT OF WAY SCH SCHEDULE STORM DRAIN STORM DRAIN MANHOLE SUBGRADE ELEVATION SANITARY SEWER SSMH SANITARY SEWER MANHOLE

TOP OF CURB TRENCH DRAIN TDCB TRENCH DRAIN CATCH BASIN TELEPHONE POLE TOP OF RAMP ELEVATION TRW TOP OF RETAINING WALL TOP OF SEAT WALL TOP OF WALK ELEVATION UTILITY UNDERGROUND UNLESS OTHERWISE NOTED VCP VITRIFIED CLAY PIPE WATER

WITH

WITHOUT WATER VALVE

STANDARD

TELEPHONE

SIDEWALK

STD

S/W

W/O

LEGEND

NOTE: NOT ALL SYMBOLS MAY BE USED ON THESE PLANS.

PROPOSED GRADING & DRAINAGE SYMBOLS:

8" SD STORM DRAIN LINE (SIZE AND FLOW SHOWN) STORM DRAIN MANHOLE — CATCH BASIN (CB) DROP INLET (DI)

AREA DRAIN (AD) PLANTER DRAIN (PD) OR FLOOR DRAIN (FD) → CO STORM DRAIN CLEANOUT

ELEVATION FINISHED FLOOR ELEVATION BUILDING PAD ELEVATION PAD=99.33

CONCRETE SIDEWALK GRADED DIRECTION FOR DRAINAGE FLOW

TREE TO BE REMOVED RETAINING WALL

PROPOSED WATER SYMBOLS:

8" W WATER LINE & SIZE

8" DW DOMESTIC WATER LINE & SIZE

8" RW RECLAIMED WATER LINE & SIZE

8" IRR IRRIGATION SERVICE LINE & SIZE

—— WATER METER

DETECTOR CHECK VALVE

BUTTERFLY VALVE

POST INDICATOR VALVE

DOUBLE DETECTOR CHECK VALVE

REDUCED PRESSURE

BACKFLOW PREVENTER

AIR RELEASE VALVE + SIZE

BLOW-OFF VALVE + SIZE

───────────FH FIRE HYDRANT ASSEMBLY

8" NP NON POTABLE WATER LINE & SIZE

FIRE DEPARTMENT CONNECTION

8" FS FIRE LINE & SIZE

────── GATE VALVE

PROPOSED SANITARY SEWER SYMBOLS: 6" SS SANITARY SEWER LINE (SIZE AND FLOW SHOWN)

FLUSHER BRANCH

SANITARY SEWER MANHOLE (SSMH) SEWER CLEANOUT

DEMOLITION GENERAL NOTES

REFER TO ARCHITECTURAL, LANDSCAPE, ELECTRICAL AND PLUMBING PLANS FOR ADDITIONAL DEMOLITION ITEMS.

2. IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.

3. ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.

4. ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.

5. ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.

6. THE SCHOOL DISTRICT SHALL HAVE SALVAGE RIGHTS TO ANY DEMOLISHED ITEMS SHOWN HEREON. THE CONTRACTOR SHALL GIVE THE DISTRICT NOTICE 7 DAYS PRIOR TO THE START OF DEMOLITION. THE DISTRICT SHALL MOVE ANY RETAINED ITEMS OUT OF THE CONTRACTORS WORK AREA, UNLESS ANOTHER ARRANGEMENT IS MADE WITH THE CONTRACTOR. ANY REMAINING ITEMS BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. ANY ITEMS NOT SHOWN FOR REMOVAL SHALL REMAIN AND SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION TO A REASONABLE EXTENT.

7. EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REPLACED WITH NEW BOX/COVER AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.

8. ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.

9. EXISTING UTILITY STRUCTURES AND PIPING NOT SHOWN ON DEMOLITION PLAN TO BE REMOVED SHALL REMAIN AND BE PROTECTED.

10. SAWCUTS AND SUBSEQUENT PATCH BACK OF CONCRETE WALKS, SHALL BE TO THE EXISTING CONCRETE JOINT BEYOND THE NEAREST LOCATION OF DEMOLITION AS SHOWN. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE, SHOW AND COORDINATE WITH EXISTING JOINTS, HOWEVER IF FIELD CONDITIONS ARE OTHERWISE, IT IS UNDERSTOOD TO REMOVE AND PATCH BACK TO THE NEAREST JOINTS BEYOND DEMOLITION.

11. PRIOR TO THE START OF CONSTRUCTION, VERIFY AND POTHOLE ALL UTILITY POINTS OF CONNECTION FOR LOCATION, DEPTH, AND SIZE. IF CONFLICT IS FOUND, CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTION

12. WITHIN LANDSCAPE AREAS TO BE DEMOLISHED THERE MAY BE EXISTING IRRIGATION LINES NOT SHOWN ON THIS PLAN. CONTRACTOR SHALL REMOVE LATERAL LINES AND HEADS ENCOUNTERED. MAIN LINES AND CONTROL WIRES MAY ONLY BE REMOVED PROVIDED THAT ROUTING IS KNOWN AND REMOVAL WILL NOT DEACTIVATE AN IRRIGATION SYSTEMS INTENDED TO REMAIN. IF CONFLICT IS FOUND, CONTACT THE ENGINEER FOR DIRECTION.

13. COORDINATE REMOVAL OF LANDSCAPE ITEMS WITH LANDSCAPE PLANS.

GENERAL NOTES

THE TYPES, LOCATIONS, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS OF UNDERGROUND SERVICE ALERT (USA) TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING TOLL FREE 1-800-227-2600, OR 811.



WARREN CONSULTING ENGINEERS, INC. (WCE) ASSUMES NO RESPONSIBILITY FOR ERRORS IN PHYSICAL LOCATION OF IMPROVEMENTS, HORIZONTAL OR VERTICAL IN ADDITION, ANY SUCH ERRORS IN PHYSICAL LOCATION MAY AFFECT THE INTENDED DESIGN OF SUCH IMPROVEMENTS AND WCE CANNOT BE HELD RESPONSIBLE FOR SUCH CONDITIONS WHICH ARE A RESULT OF ERRORS IN SURVEYING, OR IMPROPER CONSTRUCTION.

IF SUBSURFACE CULTURAL RESOURCES, REMAINS, AND/OR ARTIFACTS ARE UNCOVERED DURING PROJECT CONSTRUCTION, ALL WORK IN THE VICINITY SHALL BE STOPPED UNTIL SUCH ITEMS CAN BE ASSESSED BY AN APPROPRIATE MEMBER OF THE COUNTY ENVIRONMENTAL IMPACT SECTION STAFF.

CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY: THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS: AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR

5. THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY FOR ALL EXCAVATIONS OF 5 FEET OR MORE IN DEPTH.

6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE NECESSARY PRE-CONSTRUCTION SITE REVIEWS TO DETERMINE NECESSARY MEANS AND METHODS TO COMPLETE THE IMPROVEMENTS SHOWN ON THESE PLANS.

WHERE IMPROVEMENTS LIE WITHIN AN EXISTING DEVELOPED AREA, CONTRACTOR SHALL USE CAUTION WHEN ACCESSING THE SITE THROUGH THESE EXISTING IMPROVEMENTS. IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT ANY SUCH EXISTING IMPROVEMENTS OUTSIDE THE PROJECT BOUNDARY. OR EXISTING IMPROVEMENTS WITHIN THE BOUNDARY WHICH ARE TO REMAIN. PROPER PRECAUTIONS SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER.

8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP DETAILED RECORDS OF MINOR CHANGES OR ADJUSTMENTS MADE DURING CONSTRUCTION (WHICH WERE NOT FORMALLY ISSUED). UPON PROJECT COMPLETION, THESE RECORDS AND/OR INFORMATION SHALL BE PROVIDED TO THE OWNER AND WARREN CONSULTING ENGINEERS, INC. UNLESS AN OFFICIAL "AS-BUILT" SET OF PLANS IS A REQUIREMENT OF THE CONTRACT. IF AS-BUILT PLANS ARE A REQUIREMENT OF THE CONTRACT, REFER TO SPECIFICATIONS FOR AS-BUILT DELIVERABLE REQUIREMENTS.

IN VEHICULAR PATHWAYS, EXISTING ASPHALTIC AND/OR CONCRETE SURFACES SHALL BE CUT TO A NEAT AND STRAIGHT LINE, PARALLEL OR PERPENDICULAR TO THE VEHICULAR TRAVELED PATH. THIS IS TYPICALLY THE ROADWAY CENTERLINE, BUT MAY VARY. THAT SAWCUT EDGE SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION SO A CLEAN EDGE REMAINS FOR PATCH BACK.. IF EDGE IS DAMAGED, A NEW SAW CUT WILL BE REQUIRED. THE EXPOSED EDGE SHALL BE "TACKED" WITH EMULSION PRIOR TO PAVING.

10. NO BURNING OR BLASTING SHALL BE ALLOWED ONSITE UNLESS SPECIFICALLY ADDRESSED ON PLANS, OR SPECIFICALLY APPROVED AND COORDINATED WITH THE ARCHITECT, ENGINEER, AND LOCAL AGENCY OR OTHER ADMINISTRATIVE AUTHORITY.

SUBGRADE AND RESULTING FINISHED GRADE SHALL BE CONSTRUCTED SMOOTH AND UNIFORM BETWEEN SPOT ELEVATIONS, CONTOURS OR OTHER STRUCTURE ELEVATIONS SHOWN ON GRADING OR OTHER PLANS. NO MOUNDS, RUTS, DEPRESSIONS OR OTHER GRADING DEFICIENCIES WILL BE ALLOWED UNLESS SPECIFICALLY SHOWN ON PLANS.

12. ON NEW WATER SYSTEMS, SERVICE LATERALS SHALL BE MADE USING APPROPRIATE "TEE" AND "WYE" FITTINGS. SADDLE TAPS WILL ONLY BE ALLOWED WHEN MAKING CONNECTIONS TO EXISTING WATER MAINS.

13. CURING COMPOUND SHALL BE APPLIED IN A CONTINUOUS SOLID WET FLOWING COAT. ANY "SPOTTY" APPLICATIONS SHALL BE RECOATED IMMEDIATELY. APPLICATION SHALL BE INSPECTED BY PROJECT INSPECTOR DURING APPLICATION.

14. EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE ADDITIONAL SCORE OR EXPANSION JOINTS TO PREVENT UNCONTROLLED CRACKING. THOSE ADDITIONAL JOINTS MAY OR MAY NOT BE SPECIFICALLY SHOWN ON PLANS BUT SHALL BE PROVIDED BY THE CONTRACTOR.

15. EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE A MINOR ADJUSTMENT OF REBAR WITHIN CONCRETE TO ALLOW FOR SUCH STRUCTURE. THAT REBAR ADJUSTMENT MAY NOT BE SPECIFICALLY SHOWN ON PLANS.

16. NO MORE THAN 1 GALLON OF WATER PER YARD OF CONCRETE CAN BE ADDED TO THE TRUCK AFTER ARRIVAL TO PROJECT SITE. THE ADDITION OF WATER CAN ONLY BE ADDED UNDER THE SUPERVISION OF THE CONCRETE INSPECTOR OR LABORATORY TECHNICIAN.

17. WHEN PUMPING CONCRETE FOR PLACEMENT, ABSOLUTELY NO WATER IS TO BE ADDED TO PUMP HOPPER. ANY WATER ADDED TO HOPPER WILL BE REASON FOR CONCRETE REJECTION AT THE CONTRACTORS EXPENSE.

18. ALL CONTRACTION/CONSTRUCTION JOINTS "CJ" SHALL BE 1/4 THE SLAB THICKNESS DEEP, BUT NO LESS THAN 1" FOR CONTROLLING OF CRACKING. CONTRACTOR SHALL EXERCISE CAUTION WHEN FINAL TROWELING OF CONCRETE SO AS NOT TO FILL IN THESE JOINTS WITH CONCRETE CREAM. ANY CRACKS OUTSIDE OF JOINTS WHICH WERE CONSTRUCTED LESS THAN 1" DEEP, SHALL BE CAUSE FOR CONCRETE SLAB(S) TO BE REMOVED AND REPLACE AT CONTRACTORS EXPENSE.

19. ANY SCREED BOARDS SET WITHIN CONCRETE SLABS SHALL BE AN "OVERHEAD SCREED" SO THERE IS NO INTERFERENCE WITH THE PLACEMENT AND ALIGNMENT OF SLAB REINFORCING.

20. 3-1/2" FELT JOINTS WILL NOT BE ACCEPTED. PROVIDE A FULL 4" FELT JOINT FOR 4" SLAB CONSTRUCTION, AND A 6" FELT JOINT FOR A 6" SLAB SLAB CONSTRUCTION.

21. SHOULD ANY SHRINKAGE CRACKS OCCUR OUTSIDE OF EITHER THE EXPANSION JOINTS OR CRACK CONTROL JOINTS, THEN THE CONCRETE SLAB SHALL BE SAWCUT AT THE NEAREST JOINTS ON EACH SIDE OF THE CRACK AND THE CONCRETE SECTION SHALL BE, REMOVED AND REPLACED. NEW CONCRETE SHALL BE DOWELED INTO EXISTING CONCRETE PER DRAWING DETAIL.

22. ALL AREAS DISTURBED BY GRADING OPERATIONS WHETHER SHOWN ON THE DRAWINGS OR NOT SHALL BE HYDROSEEDED UNLESS OTHERWISE NOTED. HYDRO SEEDING SHALL CONFORM TO LOCAL CITY/COUNTY STANDARDS.

23. REPAIR OR PATCHING OF GALVANIZED METALS, SUCH AS AFTER WELDING GALVANIZED COMPONENTS, SHALL BE MADE USING A ZINC COMPOSITION "HOT STICK" APPLICATION PER ASTM A 780-01. GALVANIZING PAINTS WILL NOT BE ALLOWED.

24. AT LIMITS OF NEW PAVEMENT OR CURBS ADJACENT TO LANDSCAPING PROVIDE A 4:1 MINIMUM TRANSITION TO EXISTING GRADE WITH TOPSOIL. ADJUST EXISTING IRRIGATION HEADS TO FINISH GRADE AND PROVIDE SOD IN GRASS AREAS TO RESTORE TO EXISTING

37. TRANSITION BETWEEN PAVED SURFACES AND LANDSCAPE AREAS SHALL BE NO GREATER THAN 1", UNLESS NOTED OTHERWISE.

38. WITHIN LIMITS OF WORK THERE MAY BE EXISTING IRRIGATION LINES NOT SHOWN ON THIS PLAN. CONTRACTOR SHALL REMOVE LATERAL LINES AND HEADS ENCOUNTERED. MAIN LINES AND CONTROL WIRES MAY ONLY BE REMOVED PROVIDED THAT ROUTING IS KNOWN AND REMOVAL WILL NOT DEACTIVATE AN IRRIGATION SYSTEMS INTENDED TO REMAIN. IF CONFLICT IS FOUND, CONTACT THE ARCHITECT FOR

39. GENERAL CONTRACTOR IS REQUIRED TO HIRE A LANDSCAPE SUBCONTRACTOR TO PERFORM ALL LANDSCAPE AND IRRIGATION REPAIRS.

40. WIDTH OF NEW SIDEWALKS SHALL MATCH WIDTH OF EXISTING, ADJACENT, SIDEWALKS.

41. SEE ARCHITECTURAL PLANS FOR EXPANSION AND CONTROL JOINT LAYOUT.

42. ADJUST TO FINISH GRADE ALL UTILITY BOXES, FRAMES, COVERS SLEEVES, POST HOLES GRATES, ETC. FOUND IN AREA OF WORK, WHETHER SHOWN OR NOT. CLEAN OR REPLACE AS NECESSARY TO ENSURE PROPER SEATING.

43. ALL NEW ASPHALT PAVING TO BE PROVIDED WITH 2 COATS OF SEALCOAT.

43. PRIOR TO NEW SEALCOAT ON EXISTING ASPHALT SURFACES, FILL ALL CRACKS 1/4" INCHES OR WIDER WITH AN APPROVED CRACK

44. FOR ACCESSIBLE PATH OF TRAVEL REQUIREMENTS SEE ARCHITECTURAL SHEETS.

45. PERCENT OF SLOPE SHOWN ON ARROWS ARE MAXIMUM SLOPES AND NOT INTENDED TO SUPERCEDE SLOPES DEFINED BY SPOT 0.0%

46. WITHIN THE LIMITS OF ACCESSIBLE PARKING AREA AND ACCESSIBLE DROP OFF ZONE THE SLOPE OF PAVEMENT SHALL NOT EXCEED 1.9% IN ANY DIRECTION.

47. SLOPE OF FINISHED PAVING TO BE 1% MINIMUM FOR ASPHALT, 0.5% MINIMUM FOR CONCRETE AND THE MAXIMUM SLOPE SHALL BE AS FOLLOWS;

CROSS SLOPE PERPENDICULAR TO PATH OF TRAVEL - 1.9% DIRECTION OF TRAVEL - 4.9% RAMP IN DIRECTION OF TRAVEL - 8.0% PLAZA 1.9% — IN ANY DIRECTION

48. THE MINIMUM SLOPE AWAY FROM THE BUILDING ON PAVED SURFACES SHALL BE 1% MINIMUM AND 2% MAXIMUM.

49. TRANSITIONS BETWEEN CONCRETE AND OR ASPHALT SURFACES SHALL BE FLUSH, UNLESS NOTED OTHERWISE BY CURB OR STEP.

CIVIL SHEET INDEX

CO.1 CIVIL GENERAL NOTES AND ABBREVIATIONS

C1.1 DEMOLITION PLAN

C2.1 GRADING AND PAVING PLAN C3.1 UTILITY PLAN

AGENCY

APPROVAL:

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 02-122975 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 DATE: 03/12/2025

DATE



KEYNOTES

916 368 7990 / www.hmcarchitects.com

DESCRIPTION

GENERAL NOTES





EL DORADO HILLS, CA 95762 | (916) 985-1870

ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE **TRACY, CA 95377**

ART FREILER ES - TK CLASSROOM

SHEET NAME: CIVIL GENERAL NOTES AND ABBREVIATIONS

CONSTRUCTION DOCUMENTS

CLIENT PROJ NO: 359500100

AGENCY APPROVAL:

DEMOLITION NOTES

3. EXISTING STORM DRAIN TO REMAIN.

4. EXISTING LIFT STATION TO REMAIN.

SAWCUT, REMOVE AND DISPOSE OF EXISTING ASPHALT PAVING AND ASSOCIATED AGGREGATE BASE. SAWCUT SHALL BE A NEAT STRAIGHT LINE, MAINTAIN CLEAN, STRAIGHT CUT EDGE UNTIL NEW PAVING IS PLACED.

2. REMOVE AND DISPOSE OF EXISTING AREA DRAIN.

5. REMOVE AND DISPOSE OF EXISTING BARK/MULCH.

6. EXISTING BASKETBALL POLE AND STANDARDS TO REMAIN.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 02-122975 INC:

REVIEWED FOR
SS FLS ACS D

DATE: 03/12/2025

DATE



HMC Architects

3595005000

2101 CAPITOL AVENUE, SUITE 100 SACRAMENTO, CA 95816 916 368 7990 / www.hmcarchitects.com

A DESCRIPTION

KEYNOTES

GENERAL NOTES



1117 WINDFIELD WAY, SUITE 110 EL DORADO HILLS, CA 95762 | (916) 985-1870

WARREN CONSULTING ENGINEERS, INC.

ACILITY:

ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE TRACY, CA 95377

PROJECT:

ART FREILER ES - TK CLASSROOM

SHEET NAME:

DEMOLITION PLAN

CONSTRUCTION DOCUMENTS

DATE: **1/16/2024**

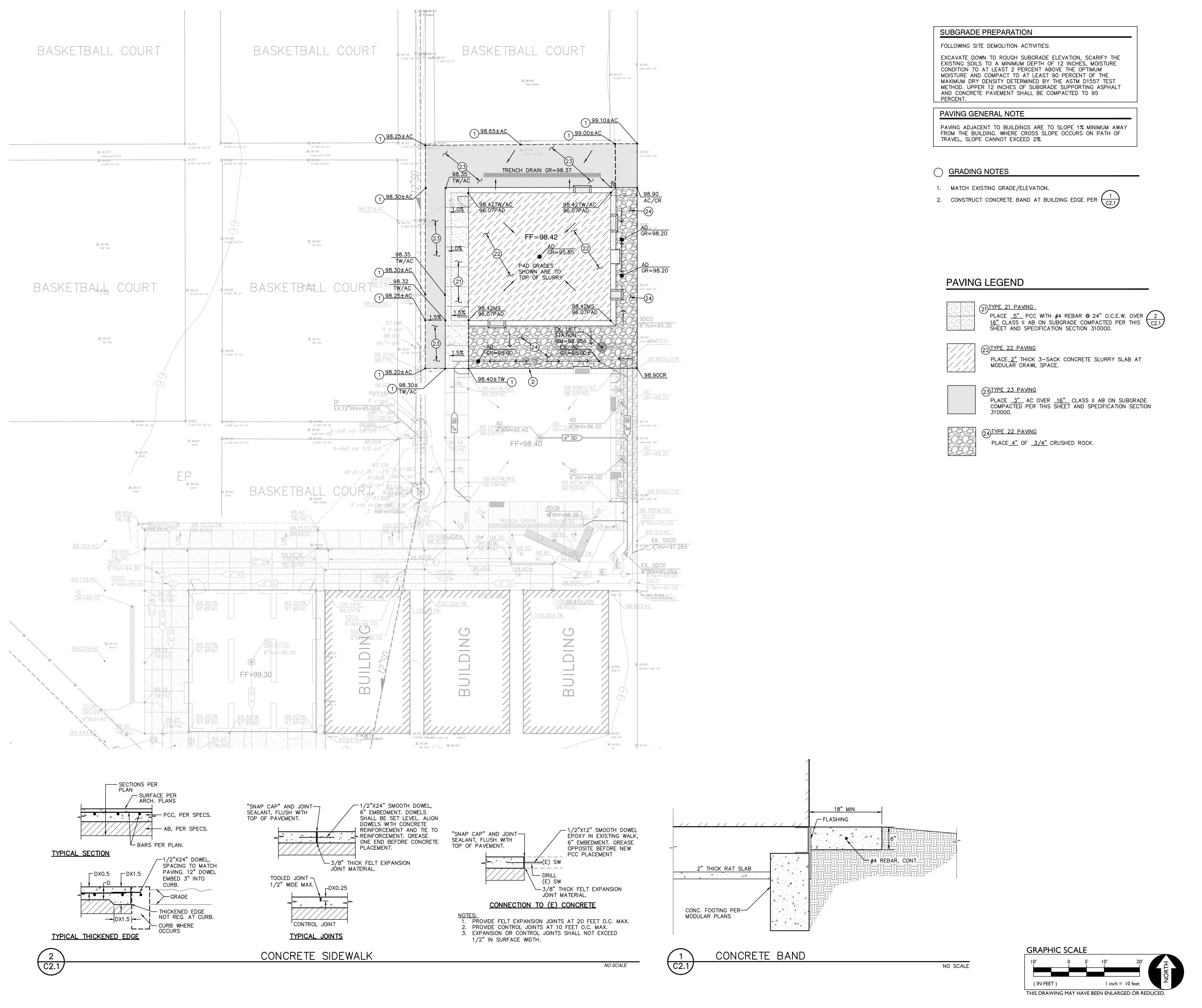
PLEASE RECYCLE

CLIENT PROJ NO: 3595001000

C1.1

THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.

GRAPHIC SCALE



AGENCY APPROVAL:

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 02-122975 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 DATE: 03/12/2025

DATE



3595005000

2101 CAPITOL AVENUE, SUITE 100 SACRAMENTO, CA 95816 916 368 7990 / www.hmcarchitects.com

ISSUE △ **DESCRIPTION**

KEYNOTES

GENERAL NOTES



WARREN CONSULTING ENGINEERS, INC.

1117 WINDFIELD WAY, SUITE 110 EL DORADO HILLS, CA 95762 | (916) 985-1870

ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE

TRACY, CA 95377 PROJECT:

ART FREILER ES - TK CLASSROOM

SHEET NAME: GRADING AND PAVING PLAN

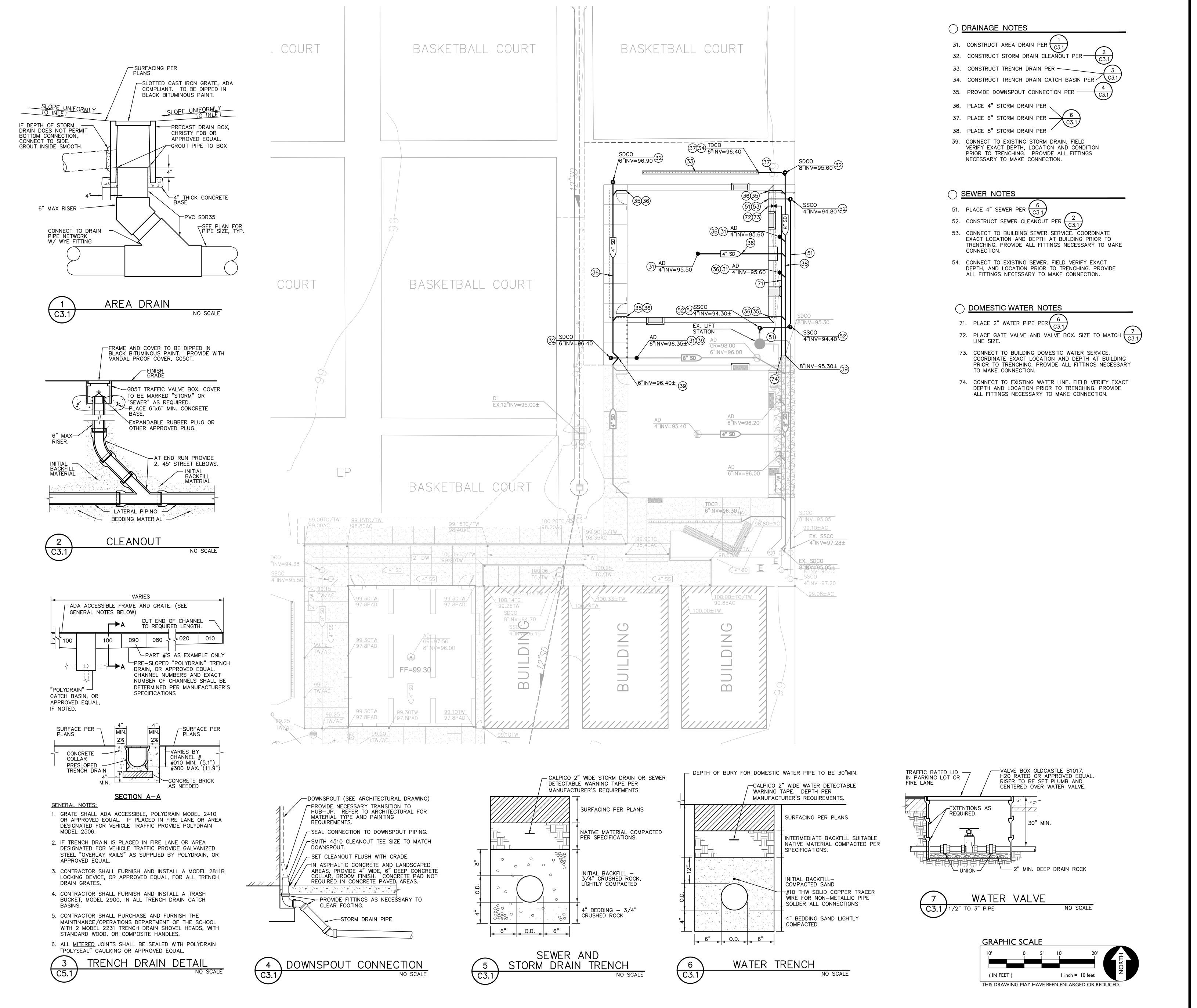
CONSTRUCTION DOCUMENTS

DATE: 1/16/2024

SHEET:

PLEASE RECYCLE

CLIENT PROJ NO: 3595001000



AGENCY APPROVAL: IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 02-122975 INC:

REVIEWED FOR

SS FLS ACS D

DATE: 03/12/2025

DATE



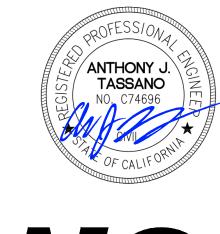
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___DESCRIPTION

KEYNOTES

GENERAL NOTES



WARREN CONSULTING ENGINEERS, INC. 1117 WINDFIELD WAY, SUITE 110 EL DORADO HILLS, CA 95762 | (916) 985-1870

FACILITY:

ART FREILER ELEMENTARY SCHOOL
2421 W LOWELL AVE

2421 W LOWELL AVE TRACY, CA 95377

PROJECT:
ART FREILER ES - TK CLASSROOM

SHEET NAME:

UTILITY PLAN

CONSTRUCTION DOCUMENTS

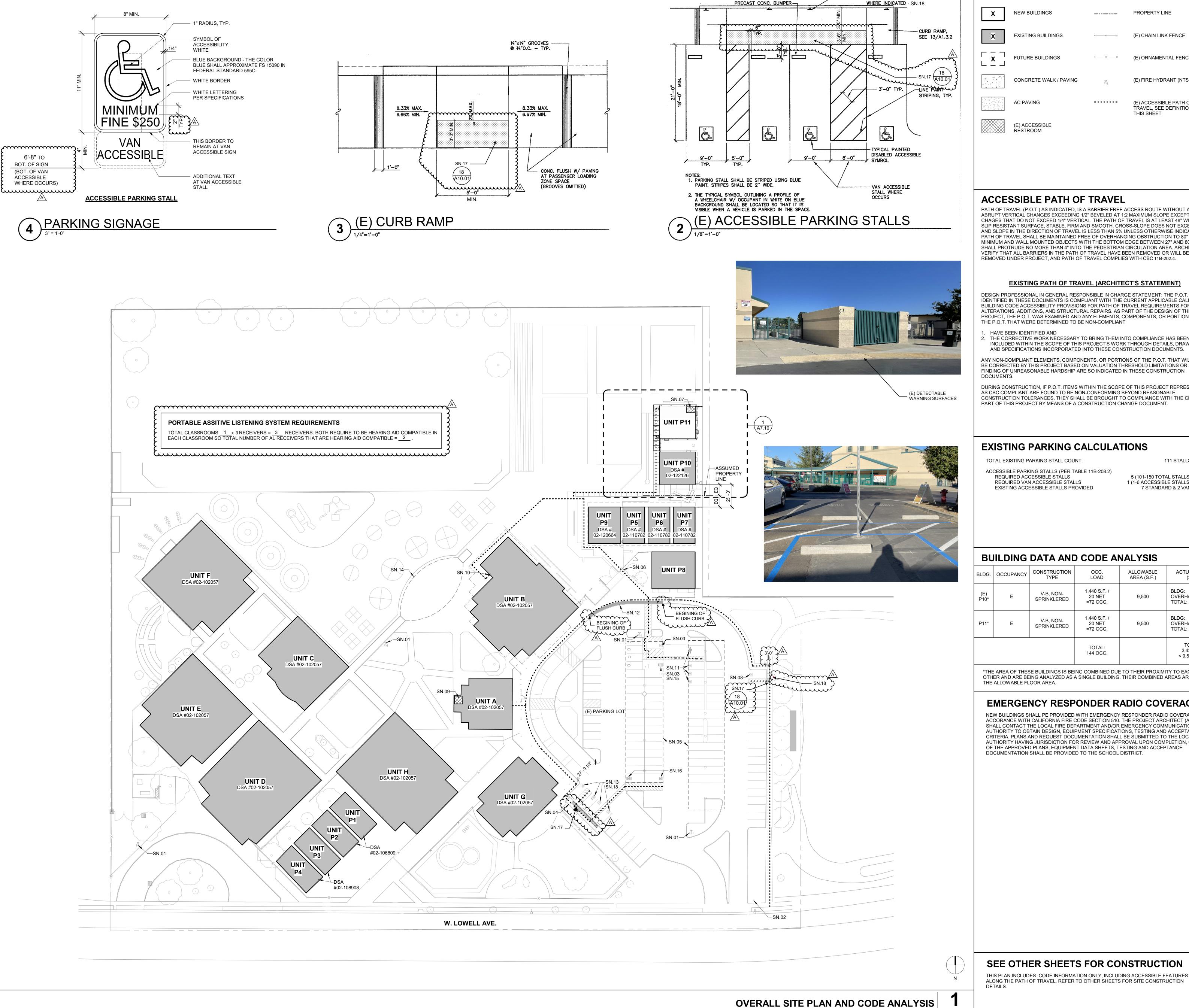
DATE: **1/16/2024**

SHEET:

PLEASE RECYCLE

CLIENT PROJ NO: 3595001000

C3.1



LEGEND

-DISABLED ACCESSIBLE PARKING SIGN, TYP. ADD VAN ACCESSIBLE

NEW BUILDINGS PROPERTY LINE _---

×—× (E) CHAIN LINK FENCE

(E) ORNAMENTAL FENCE

(E) FIRE HYDRANT (NTS)

AC PAVING -----(E) ACCESSIBLE PATH OF TRAVEL, SEE DEFINITION ON THIS SHEET

(E) ACCESSIBLE ŘÉSTROOM

ACCESSIBLE PATH OF TRAVEL

CONCRETE WALK / PAVING

PATH OF TRAVEL (P.O.T.) AS INDICATED, IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE EXCEPT LEVEL CHAGES THAT DO NOT EXCEED 1/4" VERTICAL. THE PATH OF TRAVEL IS AT LEAST 48" WIDE WITH SLIP RESISTANT SURFACE, STABLE, FIRM AND SMOOTH. CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. THE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTION TO 80" A.F.F. MINIMUM AND WALL MOUNTED OBJECTS WITH THE BOTTOM EDGE BETWEEN 27" AND 80" A.F.F. SHALL PROTRUDE NO MORE THAN 4" INTO THE PEDESTRIAN CIRCULATION AREA. ARCHITECT TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER PROJECT, AND PATH OF TRAVEL COMPLIES WITH CBC 11B-202.4.

EXISTING PATH OF TRAVEL (ARCHITECT'S STATEMENT)

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE IN CHARGE STATEMENT: THE P.O.T. IDENTIFIED IN THESE DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE 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 NON-COMPLIANT

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 NON-COMPLIANT ELEMENTS, COMPONENTS, OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION

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

EXISTING PARKING CALCULATIONS

TOTAL EXISTING PARKING STALL COUNT:

ACCESSIBLE PARKING STALLS (PER TABLE 11B-208.2) REQUIRED ACCESSIBLE STALLS REQUIRED VAN ACCESSIBLE STALLS

5 (101-150 TOTAL STALLS) 1 (1-6 ACCESSIBLE STALLS) 7 STANDARD & 2 VAN

111 STALLS

BUILDING DATA AND CODE ANALYSIS

| BLDG. | OCCUPANCY | CONSTRUCTION TYPE | OCC. LOAD | ALLOWABLE AREA (S.F.) | ACTUAL AREA (S.F.) |
|-------------|-----------|--------------------------|------------------------------------|--------------------------|---|
| (E) P10* | E | V-B, NON- SPRINKLERED | 1,440 S.F. / 20 NET =72 OCC. | 9,500 | BLDG: 1,440 <u>OVERHANG: 270</u> TOTAL: 1,710 |
| P11* | E | V-B, NON- SPRINKLERED | 1,440 S.F. / 20 NET =72 OCC. | 9,500 | BLDG: 1,440 <u>OVERHANG: 270</u> TOTAL: 1,710 |
| | | | TOTAL: 144 OCC. | | TOTAL: 3,420 S.F. < 9,500 = OK |

*THE AREA OF THESE BUILDINGS IS BEING COMBINED DUE TO THEIR PROXIMITY TO EACH OTHER AND ARE BEING ANALYZED AS A SINGLE BUILDING. THEIR COMBINED AREAS ARE WITHIN THE ALLOWABLE FLOOR AREA.

EMERGENCY RESPONDER RADIO COVERAGE

NEW BUILDINGS SHALL PE PROVIDED WITH EMERGENCY RESPONDER RADIO COVERAGE IN ACCORANCE WITH CALIFORNIA FIRE CODE SECTION 510. THE PROJECT ARCHITECT (AOR) SHALL CONTACT THE LOCAL FIRE DEPARTMENT AND/OR EMERGENCY COMMUNICATIONS AUTHORITY TO OBTAIN DESIGN, EQUIPMENT SPECIFICATIONS, TESTING AND ACCEPTANCE CRITERIA. PLANS AND REQUEST DOCUMENTATION SHALL BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL UPON COMPLETION, COPIES OF THE APPROVED PLANS, EQUIPMENT DATA SHEETS, TESTING AND ACCEPTANCE DOCUMENTATION SHALL BE PROVIDED TO THE SCHOOL DISTRICT.

AGENCY APPROVAL:

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 02-122975 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

C-35691

REN. 05/31/25

DATE

3/20/25



HMC Architects

3595005000

2101 CAPITOL AVENUE, SUITE 100 SACRAMENTO, CA 95816

916 368 7990 / www.hmcarchitects.com

△ DESCRIPTION

A ADDENDUM "A"

GENERAL NOTES

- 1. CONTRACTOR SHALL PROVIDE TEMPORARY FENCING DURING CONSTRUCTION TO SECURE ENTIRE AREA OF WORK.
- CHAPTER 33, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION, THROUGHOUT THE ENTIRE PROJECT. 3. FENCE GRAPHICS AS SHOWN IN THE LEGEND ARE SCHEMATIC.
- ACTUAL FENCE POST LOCATIONS ARE TO BE COORDINATED BY
- THE CONTRACTOR 4. PROVIDE 3/4" CHAMFER AT EXPOSED EDGES OF CONCRETE, UNLESS OTHERWISE INDICATED.

2. CONTRACTOR SHALL COMPLY WITH 2019 CALIFORNIA FIRE CODE

SHEET NOTES

SN.01 (E) FIRE HYDRANT SN.02 (E) TOW AWAY SIGN PER DSA #02-118874

SN.03 (E) ACCESSIBLE PARKING PER DSA #02-120664 DETAIL 2/A7.10 SN.04 (E) ACCESSIBLE CURB RAMP PER DSA #02-102057, SEE DETAIL 3/-

SN.05 (E) SOLAR ARRAY STRUCTURE DSA #02-118874 SN.06 (E) ACCESSIBLE PEDESTRIAN GATE WITH PANIC HARDWARE

PER DSA #02-120664 SN.07 ACCESSIBLE STUDENT RESTROOM THIS APPLICATION SN.08 (E) ACCESSIBLE PARKING PER DSA #02-102057, SEE DETAIL 2/-

SN.09 (E) STAFF RESTROOM UPGRADED PER DSA #02-120664 SN.10 (E) DRINKING FOUNTAIN PER DSA #02-102057 SEE DETAIL 13/ A10.01

SN.11 (E) EV PARKING PER DSA #02-118874 SN.12 (E) DETECTABLE WARNINGS CONFIRM COMPLIES W/DETAIL 18/A10.01

SN.13 (E) ACCESSIBLE PARKING PER DSA #02-102057

SN.14 (E) LUNCH SHELTER PER DSA #02-102057 SN.15 VAN ACCESSIBLE

SN.18 REMOVE (E) SIGN AND REPLACE WITH SIGN PER DETAIL 4/-

SN.16 (E) ACCESSIBLE PARKING PER DSA #02-118874 SN.17 PROVIDE DETECTABLE WARRNING THIS APPLICATION DETAIL 18/A10.01

FACILITY: ART FREILER ELEMENTARY SCHOOL **2421 W LOWELL AVE TRACY, CA 95377**

PROJECT:

ART FREILER ES - TK CLASSROOM

SHEET NAME: SITE PLAN AND CODE INFORMATION

DATE: 04/03/2024 CLIENT PROJ NO: 359500

CONSTRUCTION DOCUMENTS

PLEASE RECYCLE 🖔

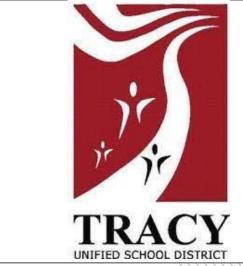
LEGEND APPROVAL: × × (E) CHAINLINK FENCE **NEW BUILDINGS** \times \times \times EXISTING BUILDINGS CHAINLINK FENCE CONCRETE WALK / PAVING - EXPANSION JOINT (20'-0" MAX. SPACING) CONTROL JOINT NO PARKING (E) ACCESSIBLE PARKING (10'-0" MAX. SPACING) (E) WHEEL STOP, TYP. ——— **AC PAVING** (E) 18'-0" (E) 12" HIGH LETTERS "NO PARKING", WHITE BORDER AT ACCESS AISLE: BLUE PAINT, TYP. (E) VAN ACCESSIBLE PARKING SIGN (E) INTERNATIONAL SYMBOL OF -ACCESSIBILITY ENLARGED SITE PLAN (E) PARKING LOT STALLS 3/32"=1'-0" ____SN.01, TYP. SN.02__ -SN.02 -SN.05 —SN.01 **UNIT P11** —SN.04 SN.10 SN.12-UNIT P10 **-**−SN.08 ENLARGED SITE PLAN

AGENCY

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-122975 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

C-35691

DATE



HMC Architects

3595005000

2101 CAPITOL AVENUE, SUITE 100 SACRAMENTO, CA 95816 916 368 7990 / www.hmcarchitects.com

△ **DESCRIPTION**

ADDENDUM "A"

3/20/25

KEYNOTES

32.090 CHAIN LINK FENCING, SEE DETAIL 8 / A10.01 Current de la constitue de la

GENERAL NOTES

- CONTRACTOR SHALL PROVIDE TEMPORARY FENCING DURING CONSTRUCTION TO SECURE ENTIRE AREA OF WORK.
- 2. CONTRACTOR SHALL COMPLY WITH 2019 CALIFORNIA FIRE CODE CHAPTER 33, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION, THROUGHOUT THE ENTIRE PROJECT.
- 3. FENCE GRAPHICS AS SHOWN IN THE LEGEND ARE SCHEMATIC. ACTUAL FENCE POST LOCATIONS ARE TO BE COORDINATED BY THE CONTRACTOR
- 4. PROVIDE 3/4" CHAMFER AT EXPOSED EDGES OF CONCRETE, UNLESS OTHERWISE INDICATED.

SHEET NOTES

- SN.01 CONCRETE APRON SN.02 1'-6"x4' FOUNDATION VENT WITH GRATE PER DETAIL 2/S1.4 SN.03 2'x3' ACCESS VENT WITH GRATE PER DETAIL 1/S1.5
- SN.04 HVAC UNIT SN.05 ROOF OVERHEAD, SHOWN DASHED
- SN.06 (E) CMU WALL TO REMAIN
- SN.07 NOT USED SN.08 (E) 3'-0" WIDE BY 6'-0" HIGH CHAINLINK MAINTENANCE GATE WITH PRIVACY SLATS, PROVIDE SIGN THAT READS, "ENTRY RESTRICTED AND CONTROLLED BY SECURITY PERSONNEL
- SN.09 (E) SWELL SN.10 DÉMO (E) CHAINLINK FENCE
- SN.11 (E) CHÀIŃ LINK FENCE SN.12 (E) CONCRETE PAVING
- SN.13 (E) LIFT STATION SN.14 TRENCH DRAIN

ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE TRACY, CA 95377

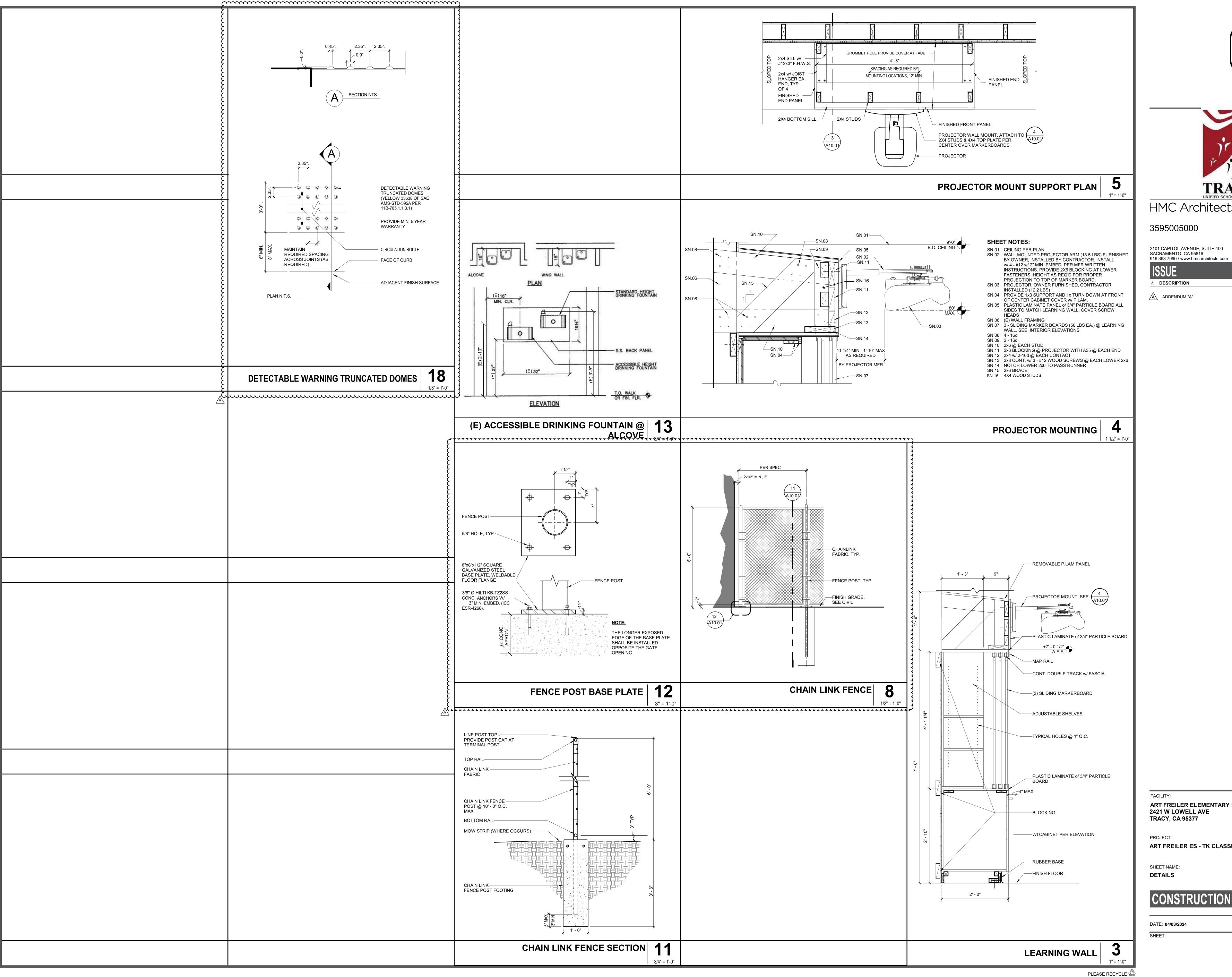
PROJECT:

ART FREILER ES - TK CLASSROOM

SHEET NAME: **ENLARGED SITE PLAN**

CONSTRUCTION DOCUMENTS

CLIENT PROJ NO: 3595005000 DATE: 04/03/2024



> C-35691 REN. 05/31/25



HMC Architects

3595005000

2101 CAPITOL AVENUE, SUITE 100 SACRAMENTO, CA 95816

 Δ **DESCRIPTION**

DATE 3/20/25 A ADDENDUM "A"

FACILITY:

ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE **TRACY, CA 95377**

PROJECT:

ART FREILER ES - TK CLASSROOM

SHEET NAME: **DETAILS**

CONSTRUCTION DOCUMENTS

CLIENT PROJ NO: 359500500

ELECTRICAL GENERAL NOTES

- 1) ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS AMENDED AND ADOPTED BY THE AUTHORITY(IES) HAVING JURISDICTION: 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), 2022 CALIFORNIA BUILDING CODE (CBC), 2022 CALIFORNIA FIRE CODE (CFC), 2022 CALIFORNIA MECHANICAL CODE (CMC), 2022 CALIFORNIA PLUMBING CODE (CPC), 2022 CALIFORNIA ELECTRICAL CODE (CEC), 2022 CALIFORNIA ENERGY CODE (CENC), 2022 CALIFORNIA GREEN BUILDING CODE (CGC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), TITLE 19 C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS, AND ANY OTHER LOCAL CODES, ORDINANCES, REGULATIONS, OR AUTHORITIES HAVING JURISDICTION. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHER CODES AND REGULATIONS APPLICABLE TO THIS PROJECT. THESE CODES SHALL DETERMINE MINIMUM REQUIREMENTS FOR MATERIALS, METHODS, AND LABOR PRACTICES NOT OTHERWISE DEFINED IN THESE SPECIFICATIONS.
- 2) ALL CONDUCTORS SHALL BE PER DESIGN SHEETS. CEC AND MAXIMUM VOLTAGE DROP OF 5% WILL DEFINE CONDUCTOR SIZING.
- 3) ALL CONDUCTORS SHALL BE IN CONDUITS, U.O.N. CONDUITS SHALL BE USED IN THE FOLLOWING - POLYVINYL CHLORIDE (PVC) CONDUITS ALLOWED FOR UNDERGROUND OTHERWISE PROVIDE RMC OR IMC, INSTALL PER CEC TABLE 300.5 BURIAL DEPTH REQUIREMENTS
- ELECTRICAL METALLIC TUBING (EMT) WITH COMPRESSION FITTINGS MAY BE USED IN OR ON WALLS OR CEILINGS WHERE NOT SUBJECT TO MECHANICAL DAMAGE, DAMP CONDITIONS OR CORROSIVE
- LIQUID TIGHT FLEXIBLE METAL CONDUIT WHERE REQUIRED; - FLEXIBLE METALLIC CONDUIT, WHERE REQUIRED BY CEC, IN DRY LOCATIONS. NOTE: ALL CONDUITS IN HAZARDOUS LOCATIONS (PER CEC) SHALL MEET THE REQUIREMENTS OF CEC CHAPTER 5. - CONNECTION TO LIGHT FIXTURES ABOVE LAY-IN CEILING MAY USE 3/8" FLEXIBLE METAL CONDUIT PER CEC 348.20(A)(2)
- ALL EXPOSED CONDUIT SUBJECT TO WEAR OR COLLISION SHALL BE RIGID GALVANIZED STEEL (RGS) OR INTERMEDIATE METALLIC TUBING (IMT). APPLY BITUMASTIC COATING TO ALL METALLIC CONDUITS IN SLABS OR UNDERGROUND. - PROVIDE FIRE RETARDANT U.L. APPROVED SEALANT ON ALL RACEWAY PENETRATIONS OF FIRE RATED CEILINGS, PARTITIONS, WALLS AND STRUCTURAL SLABS.
- 4) FOR TELEPHONE SYSTEM: PROVIDE GROUNDING FOR ALL TELEPHONE BACKBOARDS, TERMINAL CABINETS AND EQUIPMENT PER REQUIREMENTS OF CEC 800 AND TELEPHONE COMPANY.
- 5) ALL EQUIPMENT SHALL BE PROVIDED WITH AN APPROVED DISCONNECTING MEANS PER CEC. ALL DISCONNECT SWITCHES SHALL BE SIZED PER CEC TO ACCOMMODATE EQUIPMENT SERVED, INCLUDING REQUIRED FUSES, U.O.N. SWITCHES SHALL BE HORSE POWER RATED, OF HEAVY DUTY TYPE. PROVIDE MEANS FOR PAD LOCKING IN THE OPEN POSITION.
- 6) ALL CIRCUIT BREAKERS SHALL BE INVERSE TIME (THERMAL MAGNETIC) "PERMANENT TRIP" TYPE. TWO AND THREE POLE CIRCUIT BREAKERS SHALL BE COMMON TRIP. AMPACITY IS EQUAL TO OR GREATER THAN CIRCUIT BREAKER FRAME AMPERE RATING.
- 7) ALL CONNECTIONS TO GROUND RODS AND GRID, ETC., SHALL BE MADE WITH U.L. APPROVED WELDED CONNECTIONS, UNLESS NOTED OTHERWISE.
- 8) LIGHTING SYSTEMS SHALL COMPLY WITH CENC. ALL LIGHTING FIXTURES, LAMPS, BALLASTS, DIMMER SWITCHES, AND CONTROLS SHALL BE CERTIFIED WITH THE CALIFORNIA ENERGY COMMISSION AS MEETING ALL CENC REQUIREMENTS AND BE LISTED IN THE APPLICABLE ENERGY COMMISSION DIRECTORY. ALL SUCH DEVICES AND EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. LIGHT FIXTURES IN SUSPENDED CEILINGS SHALL BE SUPPORTED IN STRICT ACCORDANCE WITH CBC SEISMIC REQUIREMENTS.
- 9) LIGHT POLLUTION REDUCTION: OUTDOOR LIGHTING SYSTEMS SHALL BE INSTALLED TO COMPLY WITH THE 1) THE MINIMUM REQUIREMENTS IN CENC FOR LIGHTING ZONES 0-4 AS DEFINED IN CH. 10 OF CAC 2) BACKLIGHT RATINGS AS DEFINED IN IES TM-15-11 3) UPLIGHT AND GLARE RATINGS AS DEFINED IN CEC TABLES 130.2-A AND 130.2B 4) ALLOWABLE BUG RATING NOT EXCEEDING THOSE SHOWN IN TABLE 5.106.8, OR
- COMPLY WITH A LOCAL ORDINANCE LAWFULLY ENACTED PURSUANT TO SECTION 101.7, WHICHEVER IS MORE STRINGENT. 10) ALL ELECTRICAL EQUIPMENT, DEVICES, WIRE, ETC., SHALL BE LISTED, FOR THE INTENDED USE, WITH UNDERWRITER'S LABORATORIES, INC., (UL), WHERE STANDARDS HAVE BEEN ESTABLISHED BY UL. ALL EQUIPMENT SHALL BE RAIN TIGHT WHERE EXPOSED TO THE WEATHER. ALL FLEX CONDUITS CONNECTED TO SUCH EQUIPMENT SHALL BE METALLIC LIQUID TIGHT. ALL EQUIPMENT IN HAZARDOUS LOCATIONS, PER
- 11) UTILITY SERVICE AND REQUIREMENTS SHALL BE COORDINATED WITH POWER SERVICE WITH POWER COMPANY; PROVIDE FOR ALL STANDARD POWER COMPANY REQUIREMENTS. FAULT CURRENT RATINGS SHALL

BE PROVIDED BY UTILITY.

CEC, CHAPTER 5, SHALL BE IN ACCORDANCE WITH THE CEC. ALL EQUIPMENT IN CORROSIVE

ENVIRONMENTS SHALL BE IN ENCLOSURES (SUCH AS NEMA 4X) RATED FOR THE ENVIRONMENT.

- 12) THE LAYOUTS OF THE CONTRACT DRAWINGS ARE DIAGRAMMATIC. IT IS NOT INTENDED TO SHOW EVERY OFFSET AND FITTING, NOR EVERY STRUCTURAL DIFFICULTY THAT WILL BE ENCOUNTERED DURING THE INSTALLATION OF THE WORK. ALIGNMENT OF EQUIPMENT AND ROUTING OF RACEWAYS MAY BE VARIED SLIGHTLY TO ACCOMMODATE ARCHITECTURAL CONDITIONS OR TO AVOID THE WORK OF OTHER TRADES. IF ANY CONFLICTS OCCUR NECESSITATING DEPARTURES FROM CONTRACT DRAWINGS, DETAILS OF DEPARTURES AND REASONS THEREFORE SHALL BE SUBMITTED AS SOON AS PRACTICABLE FOR WRITTEN APPROVAL OF
- 13) THE WORD "CONTRACTOR", AS USED IN THE ELECTRICAL CONTRACT DOCUMENTS, SHALL MEAN THE PRIME (I.E. GENERAL) CONTRACTOR AND HIS/HER SUBCONTRACTORS FOR THE APPROPRIATE TRADE. WHERE THE OWNER ACTS AS HIS OWN CONTRACTOR, THE WORD CONTRACTOR APPLIES TO THE OWNER.
- 14) CONTRACTOR SHALL PROVIDE EVIDENCE OF LICENSING, BONDING, AND INSURANCE, AND PROVIDE OTHER NECESSARY ADMINISTRATIVE FUNCTIONS FOR CONTRACTOR'S WORK.
- 15) CONTRACTOR SHALL PROCURE AND PAY FOR ALL REQUIRED PERMITS AND SERVICE CHARGES.
- 16) COORDINATION: CONFORM TO GENERAL CONSTRUCTION CONTRACT DOCUMENTS EXCEPT AS MODIFIED HEREIN. REFER ALSO TO STRUCTURAL AND MECHANICAL CONTRACT DOCUMENTS. COORDINATE ALL WORK
- 17) CUTTING AND PATCHING: ANY CUTTING, ATTACHING, OR WELDING TO BUILDING STRUCTURE SHOULD BE COORDINATED AND APPROVED BY A CALIFORNIA LICENSED STRUCTURAL ENGINEER. PATCHING SUBJECT TO
- 18) SAW CUT TRENCHES IN SLAB SHALL BE FULLY RESTORED AND REINFORCED TO PREVENT SAGGING. ROUGHEN SAW CUT EDGES PRIOR TO RE-POURING CONCRETE.
- 19) COORDINATE ALL WORK WITH OTHER TRADES TO PROVIDE A COMPLETE INSTALLATION. CONNECT ALL EQUIPMENT FURNISHED BY OTHERS AS REQUIRED. INSTALL ALL WORK TO CLEAR ARCHITECTURAL AND STRUCTURAL MEMBERS. INSTALL ALL ABOVE GRADE (OVERHEAD) PIPING AS HIGH AS PRACTICAL.
- 20) RESTORE ALL DAMAGE RESULTING FROM THE WORK AND LEAVE PREMISES IN CLEAN CONDITION WHEN FINISHED WITH WORK. ADJUST, CLEAN, REPAIR, OR REPLACE PRODUCTS, WHICH HAVE BEEN DAMAGED.
- 21) PROVIDE FLASHING AND COUNTER FLASHING FOR ALL WALL AND ROOF PENETRATIONS.
- 22) WARRANTY: ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL MECHANICAL, ELECTRICAL, AND WORKMANSHIP DEFECTS FOR A MINIMUM OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE PREMISES CAUSED BY WORK UNDER THIS CONTRACT, AS WELL AS ANY DAMAGE FROM LEAKS VIA ROOF PENETRATIONS MADE AND SEALED UNDER CONTRACTOR'S SCOPE.

ELECTRICAL CALGREEN NOTES

5.106.5.3 ELECTRIC VEHICLE (EV) CHARGING. CONSTRUCTION SHALL COMPLY WITH CGC SECTION 5.106.5.3.1 OR SECTION 5.106.5.3.2 TO FACILITATE FUTURE INSTALLATION OF ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). 5.106.5.3.1 SINGLE CHARGING SPACE REQUIREMENTS. WHEN ONLY A SINGLE CHARGING SPACE IS REQUIRED PER CGC TABLE 5.106.5.3.3, A RACEWAY IS REQUIRED TO BE INSTALLED AT THE TIME OF CONSTRUCTION AND SHALL BE INSTALLED IN ACCORDANCE WITH CEC

5.106.5.3.2 MULTIPLE CHARGING SPACES REQUIREMENTS. WHEN MULTIPLE CHARGING SPACES ARE REQUIRED PER CGC TABLE 5.106.5.3.3, RACEWAY(S) IS/ARE REQUIRED TO BE INSTALLED AT THE TIME OF CONSTRUCTION AND SHALL BE INSTALLED IN ACCORDANCE WITH CEC

5.106.5.3.3 EV CHARGING SPACE CALCULATION. CGC TABLE 5.106.5.3.3 SHALL BE USED TO DETERMINE IF SINGLE OR MULTIPLE CHARGING SPACE REQUIREMENTS APPLY FOR THE FUTURE INSTALLATION OF EVSE. 5.106.5,3,4 IDENTIFICATION. THE SERVICE PANEL OR SUBPANEL(S) CIRCUIT DIRECTORY SHALL IDENTIFY THE RESERVED OVERCURRENT PROTECTIVE DEVICE SPACE(S) FOR FUTURE EV CHARGING AS "EV CAPABLE". THE RACEWAY TERMINATION SHALL BE PERMANENTLY AND VISIBLY MARKED AS "EV CAPABLE" 5.106.5.3.5 FUTURE CHARGING SPACES: FUTURE CHARGING SPACES QUALIFY AS DESIGNATED PARKING AS DESCRIBED IN CGC SECTION 5.106.5.2 DESIGNATED PARKING FOR CLEAN AIR VEHICLES.

MEP ANCHORAGE AND BRACING NOTE

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

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

3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER

OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY

SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA. THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT 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

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

THE ANCHORAGE OF ALL MECHANICAL, FLECTRICAL, 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 SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 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., HCAI 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

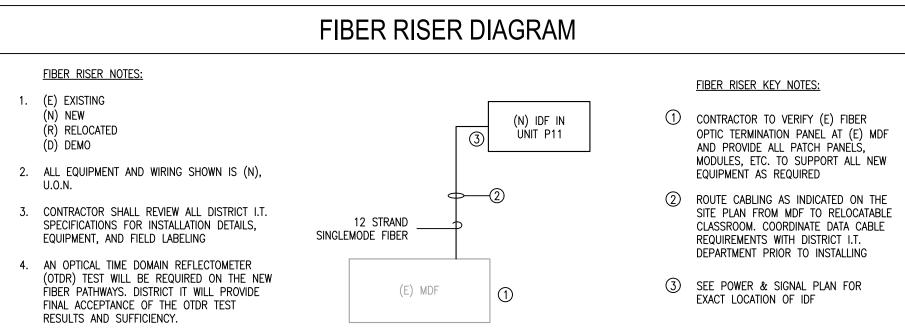
MECHANICAL PIPING (MP), MECHANICAL DUCTWORK (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

NOTES AND DETAILS. MP MD PP E OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND

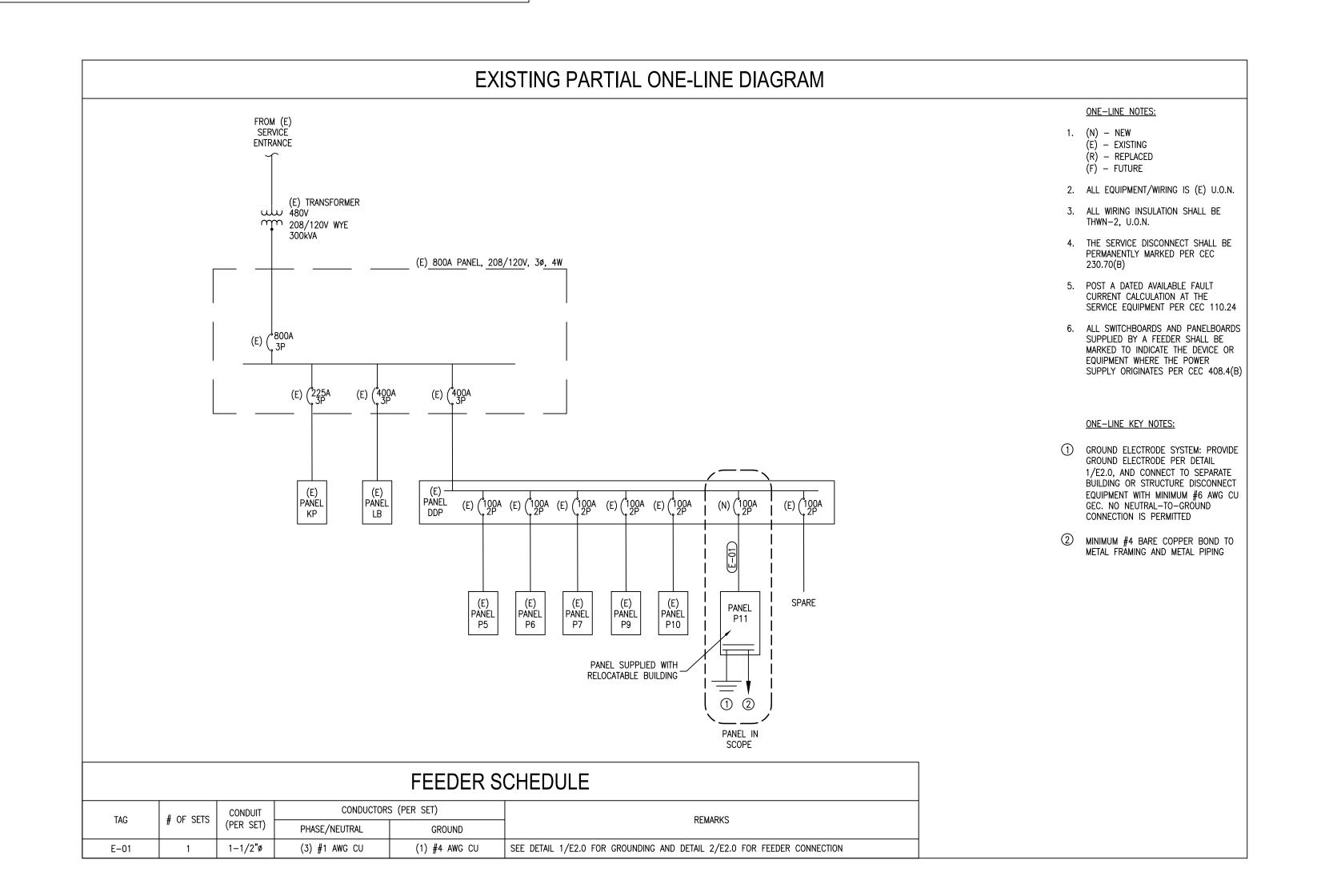
MP MD PP E OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC

| CABLE SCHEDULE | | | | | | | | | | |
|----------------|--------------------------|-------------------------------|--|--|--|--|--|--|--|--|
| TAG | DESCRIPTION | USE | | | | | | | | |
| F | 12 STRAND SINGLEMODE | FIBER | | | | | | | | |
| - | SEE SPEC | DATA | | | | | | | | |
| G | 4-WIRE, #18 AWG SHIELDED | INTRUSION ALARM SYSTEM WIRING | | | | | | | | |

| Panel Name: DDP | | | | | | | | Bus Rating | : | 400A | | | | |
|--|--------------|--------------|----------------|--------------------|--------------------|------------------|---------------------|------------------|-----|-----------------|-------------|----------|-----|--|
| Voltage & Phase: 120/208Y - 3Ø - 4W | | | | | | | | (E) | | | | | | |
| Mounting | g: | Free-Stan | NT 1 | | | | | Main Type | : | Circuit Breaker | | | | |
| nclosure | Rating: | NEMA 3R | | | | | | MCB Ratin | g: | 400A | | | | |
| Code | VA | | Descrip | ption | | BRK | Ckt | PHASE | Ckt | BRK | Description | VA | Cod | |
| | | | | | | | 1 | Α | 2 | | | | | |
| | | | | | | | 3 | В | 4 | | | | | |
| | | | | | | | 5 | С | 6 | | | | | |
| 0 | 8232 | (E) Pnl P5 | | | | 100/2 | 7 | Α | 8 | | | | | |
| 0 | 8131 | 12. 11 | | | | - | 9 | В | 10 | | | | | |
| 0 | 7591 | (E) Pnl P6 | | | | 100/2 | 11 | С | 12 | | | | | |
| 0 | 6631 | | | | | - | 13 | Α | 14 | | | | | |
| 0 | 7591 | (E) Pnl P7 | | | | 100/2 | 15 | В | 16 | | | | | |
| 0 | 6631 | (=) | | | | - | 17 | С | 18 | | | | | |
| 0 | 7591 | (E) Panel I | DΩ | | | 100/2 | 19 | A | 20 | | | | | |
| | 6631 | (L) Fallet I | 7 9 | | | | 21 | В | 22 | | | | | |
| 0 | | /E\ D===1.1 | D10 | | | 100/2 | | 1 | | | | | | |
| 0 | 11135 | (E) Panel I | P10 | | | 100/2 | 23 | C | 24 | | | | | |
| 0 | 10492 | | 220 | | | | 25 | Α | 26 | | | | 1 | |
| 0 | 10975 | (N) Panel | P11 | | | 100/2 | 27 | В | 28 | | | | - | |
| 0 | 8932 | | | | | - | 29 | С | 30 | | | | | |
| | | Spare | | | | 100/2 | 31 | Α | 32 | | | | | |
| | | | | | | - | 33 | В | 34 | | | | | |
| | | | | | | | 35 | С | 36 | | | | | |
| | | | | | | | 37 | Α | 38 | | | | | |
| | | | | | | | 39 | В | 40 | | | | | |
| | | | | | | | 41 | С | 42 | | | | | |
| Largest | Motor VA | | 4160 | | | | | | | | | <u>'</u> | 1 | |
| | Motor Phas | | A,B | | | | | | | | | | | |
| Subfeed | d Breaker to | Panel: | | | | | | | | | | | | |
| | | | | | | | | 1 | | | | | | |
| | Load Cod | e | A | Load per Ph B | C | Total VA | Calculatio Mult. | N VA Load | | | | | | |
| R = Rece | ent | | 0 | 0 | 0 | 0 | 1.00 | 0 | | | | | | |
| K = Kitch | | | 0 | 0 | 0 | 0 | 1.00 | 0 | | | | | | |
| M = Mot | | | 0 | 0 | 0 | 0 | 1.00 | 0 | | | | | | |
| L = Light | ing | | 0 | 0 | 0 | 0 | 1.25 | 0 | | | | | | |
| H = Hea | | | 0 | 0 | 0 | 0 | 1.25 | 0 | | | | | | |
| PV = Sol | | | 0 | 0 | 0 | 0 | 1.25 | 0 | | | | | | |
| | c. Vehicle | | 0 | 0 | 0 | 0 | 1.25 | 0 | | | | | | |
| O = Oth | | | 32946 32946 | 33327.5 33327.5 | 34288.5 34288.5 | 100562 100562 | 1.00 | 100562 100562 | | | | | | |
| | rgest Moto | or | 32540 | 33327.3 | 34200.3 | 4160 | 0.25 | 100562 | | | | | | |
| | d VA Loads | | 0.0 | 0.0 | 0.0 | 7100 | 0.23 | 1040 | | | | | | |
| Total V | | | 33466.0 | 33847.5 | 34288.5 | 1 | | | | | | | | |
| Load Ba | | | 98.8% | 99.9% | 101.2% |] | | | | | | | | |
| | | | - | VA Load | This Panel | _ | | 101602.0 | | | | | | |
| Amperage This Panel Per Largest Phase VA | | | | | | | | | | | | | | |



| VOLTAGE DROP SUMMARY | | | | | | | | |
|---|-------|---|---|-------|--|--|--|--|
| Voltage Drop Summary | | | | | | | | |
| Total Feeder Voltage Drop Worst Case Branch Circuit Worst Case Voltage Drop | | | | | | | | |
| MSB>DDP>P11 | 3.24% | - | - | 3.24% | | | | |



ELECTRICAL LEGEND

2X4 LIGHT FIXTURE (SURFACE, RECESSE (SURFACE, RECESSED)

2X2 LIGHT FIXTURE (SURFACE, RECESSED) FIXTURE W/ BATTERY BACKUP

(TYP. ALL SHADED FIXTURES) RECESSED DOWNLIGHT

ROUND SURFACE MOUNT LIGHT

PENDANT LIGHT

TRACK LIGHT

SIGNLIGHT

POLE MOUNT LIGHT — 2 HEAD

POLE MOUNT LIGHT — 1 HEAD EXIT/EMERGENCY COMBO LIGHT

WALL MOUNT LIGHT

EMERGENCY FIXTURE

EXIT LIGHT CEILING EXHAUST FAN

> WALL MOUNTED SWITCH, MOUNT SO TOP IS AT 44" AFF

WALL MOUNTED 3-WAY SWITCH MOUNT SO TOP IS AT 44" AFF

WALL (MOUNT SO BOTTOM IS

WALL (MOUNT SO BOTTÓM IS

PHOTOCELL PRIMARY DAYLIGHT AREAS

SECONDARY DAYLIGHT AREAS CEILING MOUNTED SENSOR

DUPLEX OUTLET -WALL (MOUNT SO BOTTOM IS 16" AFF), FLOOR, CEILING QUADRUPLEX OUTLET -

16" AFF), FLOOR, CEILING DEDICATED OUTLET -WALL (MOUNT SO BOTTOM IS 16" AFF), FLOOR, CEILING

> 16" AFF), FLOOR, CEILING 30A, 120V OUTLET (NEMA 5-30R), MOUNT SO BOTTOM IS

→ 2−POLE OUTLET − 208/240V

30A, 208/240V OUTLET (NEMA 6-30R), MOUNT SO BOTTOM IS

DUPLEX OUTLET WITH USB PORT, MOUNT SO BOTTOM IS AT 16"

DATA PORT, MOUNT SO BOTTOM IS AT 16" AFF

SMOKE DETECTOR

CARBON MONOXIDE DECTECTOR JUNCTION BOX

DISCONNECT - POLES (CAPACITY/FUSE)

HOME RUN - PANEL-CIRCUIT(S) "X"-1,3,5

WIRE/CONDUIT - OVERHEAD _ - WIRE/CONDUIT - UNDERGROUND

POWER PANEL TRANSFORMER

ABOVE FINISHED FLOOR HEIGHT (INCHES) AFF

OCCUPANCY SENSOR

VACANCY SENSOR GROUND FAULT INTERRUPTER

COUNTERHEIGHT (+44") AND GF WEATHERPROOF HORSEPOWER

BRAKE HORSEPOWER NOT TO SCALE

TYPICAL

GROUND GROUNDING ELECTRODE CONDUCTOR

MAIN SWITCHBOARD SYSTEM BONDING JUMPER SUPPLY SIDE BONDING JUMPER

BRANCH CIRCUIT POWER METER UNLESS OTHERWISE NOTED UON

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DATE





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ART FREILER ES - TK CLASSROOM

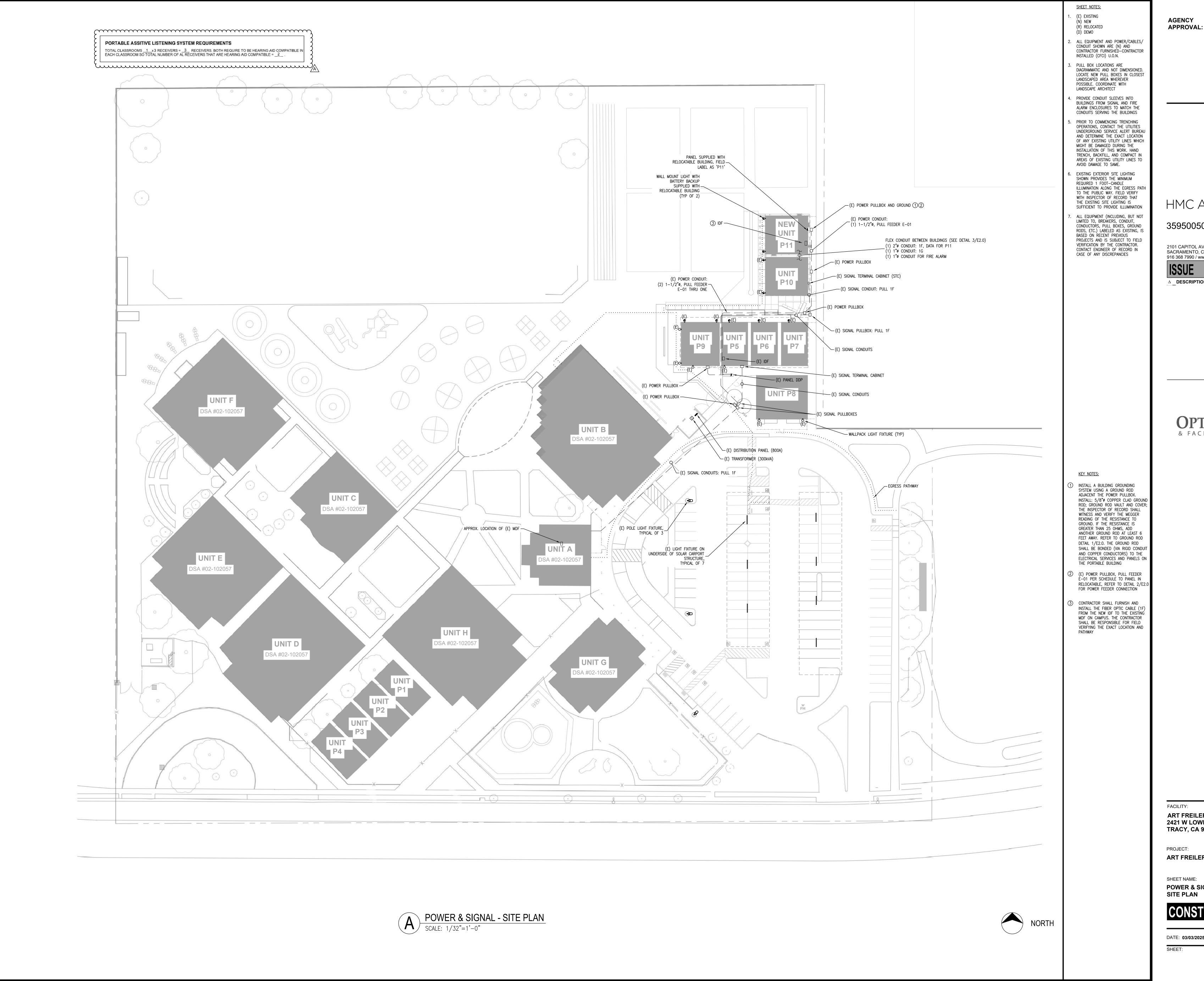
ELECTRICAL SCHEDULES, ONE-LINES, & GENERAL NOTES

CONSTRUCTION DOCUMENTS

DATE: 03/03/2025 CLIENT PROJ NO:

ADDENDUM "A"

PLEASE RECYCLE 🖧



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POWER & SIGNAL

CONSTRUCTION DOCUMENTS

DATE: 03/03/2025

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PANEL BY RELOCATABLE
BUILDING MANUFACTURER,
FIELD LABEL 'PANEL P11' UNIT P11 WIRELESS
ACCESS POINT / IDF, 6' TALL, FLOOR MOUNTED POWER FOR IDF PROVIDED BY
RELOCATABLE BUILDING MANUFACTURER,
VERIFY EXACT LOCATION WITH BUILDING
MANUFACTURER SHOP DRAWINGS FLEX CONDUITS FROM UNIT P10 (SEE DETAIL 6/E2.0):

(1) 2"ø CONDUIT: DATA FOR P11
(1) 1"ø CONDUIT: INTRUSION 'G'

POWER AND SIGNAL PLAN - RELOCATABLE CLASSROOM

SCALE: 1/8"=1'-0"



SHEET NOTES: (E) EXISTING (N) NEW (R) RELOCATED

(D) DEMO

2. ALL RECEPTACLES/LIGHTING/MISC EQUIPMENT SHOWN ARE (N) AND CONTRACTOR FURNISHED—CONTRACTOR INSTALLED (CFCI), U.O.N.

3. CONTRACTOR SHALL FIELD VERIFY ALL RECEPTACLES AND DISCONNECTS PROVIDED WITH THE RELOCATABLE
BUILDING AND ENSURE THEY ARE
WIRED AND INSTALLED PER CEC. REPLACE RECEPTACLES AS NEEDED I. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING LIGHT FIXTURES AND

CONTROLS FUNCTION PROPERLY AND REPAIR AS NEEDED 5. LOW VOLTAGE WIRING SHALL
TRANSITION TO FREE AIR ABOVE THE
CEILING, SUPPORTED BY J-HOOKS OR CABLE TRAYS AS SPECIFIED. PROVIDE CONDUIT SLEEVES THROUGH SHEAR WALLS, DRAFT STOPS, ETC. AND ABOVE NON-ACCESSIBLE CEILINGS

6. COORDINATE CONDUIT DROPS FOR ALL DATA SHOWN WITH RELOCATABLE BUILDING MANUFACTURER, ENSURE
MINIMUM 3/4"Ø CONDUIT WITH PULL
STRING WAS PROVIDED FROM EACH
DATA OUTLET UP TO CEILING SPACE. SITE CONTRACTOR SHALL PULL DATA

CABLING FROM EACH LOCATION SHOWN 7. ALL DATA SHALL HOMERUN TO THE
(N) IDF LOCATED IN UNIT P11, U.O.N.,
CONTRACTOR SHALL REFER TO THE IT
SPECIFICATIONS PROVIDED BY THE DISTRICT AND COORDINATE ALL DATA REQUIREMENTS WITH THE DISTRICT IT DEPARTMENT PRIOR TO FURNISHING AND INSTALLING

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No.E23735 EXP.12-31-2025

KEY NOTES:

CONTACTS (ALL WIRE SHALL BE COVERED WITH RACEWAY) AND TIE INTO (E) INTRUSION SYSTEM, COORDINATE DÉTAILS WITH RELOCATABLE BUILDING MANUFACTURER AND LOCATION OF ROOM SIGNAGE BY ARCHITECT

COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECT, SEE DETAIL 3/A10.2 FOR MOUNTING, AND COORDINATE POWER AND DATA CONNECTIONS WITH THE RELOCATABLE BUILDING MANUFACTURER

4 FURNISH AND INSTALL PROJECTOR CONTROL PAD TO THE (N) IDF IN UNIT

6 PROVIDE CLOCK INSTALLED ON A RECESSED BACKBOX AT 96" AFF, COORDINATE CLOCK REQUIREMENTS WITH OWNER

OUTDOOR CAMERA WITH 180° COVERAGE, MOUNT ON WALL PER MANUFACTURER INSTRUCTIONS WEIGHT = APPROX. 6 LBS
FIELD COORDINATE EXACT LOCATION
WITH OWNER

1 PROVIDE SURFACE MOUNTED DOOR

PROVIDE MOTION SENSOR AND TIE INTO (E) INTRUSION SYSTEM (EPSON BRIGHTLINK 1485FI) ON THE TEACHING WALL. PRIOR TO INSTALLATION

CONTROL PAD (EPSON PILOT).
COORDINATE POWER CONNECTION WITH
THE RELOCATABLE BUILDING
MANUFACTURER, PROVIDE CAT6 CABLE
BETWEEN PROJECTOR AND PROJECTOR CONTROL PAD, AND CAT6 CABLE FROM

(5) PROVIDE SPEAKER INSTALLED ON A RECESSED BACKBOX AT 96" AFF, PROVIDE REQUIRED CABLING, COORDINATE SPEAKER REQUIREMENTS WITH OWNER WITH OWNER

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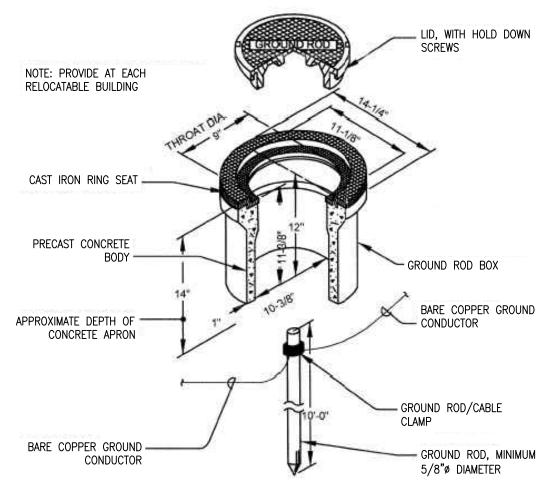
ART FREILER ES - TK CLASSROOM

POWER AND SIGNAL ENLARGED PLAN - RELOCATABLE CLASSROOM

CONSTRUCTION DOCUMENTS

DATE: 03/03/2025

CLIENT PROJ NO: 3595005000



L BRACKET L3X3X1/4 EACH END

OF UNIT (TYP OF 2)

GROUND ROD INSTALLATION

SECURE L BRACKET TO CABINET WITH 3/8" NUT/BOLT AND FLAT

SECURE CABINET WITH (4) 3/8" x 3-1/2" LAG BOLTS AND LARGE FLAT WASHERS. EMBED 3" MIN. INTO NEW

(E) 1-1/8" PLYWOOD_

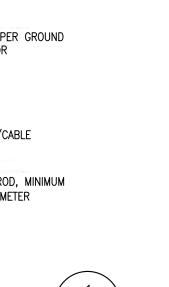
6-7/8"x2-3/4" (14 GAUGE) _ METAL STUD JOIST

SHEATHING -

IDF CABINET (STEEL)

WASHERS

MAX 600 LBS



SECURE L BRACKET WITH 1/4" X

3" LAG SCREWS AND LARGE FLAT

WASHERS, EMBED 2" MIN. INTO

4X4 BLKG W/A34
EACH SIDE TO STUDS, TOP & BOTTOM

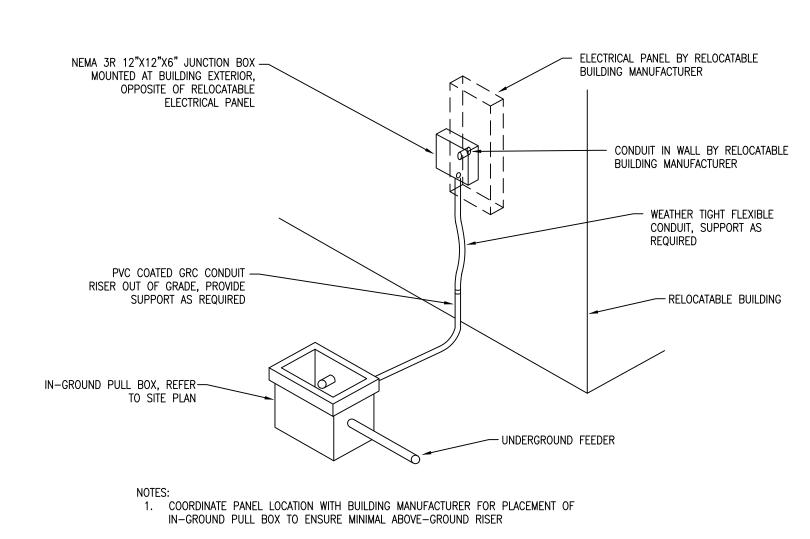
(E) 2X4 WOOD STUDS

STAGGER LS LS30 W/ (3) #10 SMS TO JOISTS & (3) 10d TO BLKG

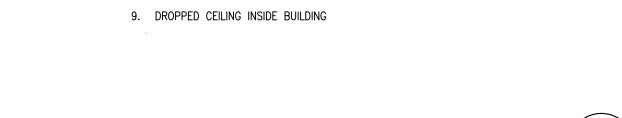
NOTCH BLKG TO PASS FLOOR
JOIST/BEAM FLANGES

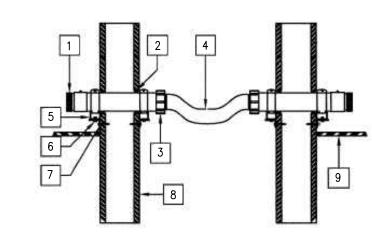
SIDE VIEW OF IDF

IDF CABINET MOUNTING DETAIL









- 1. PLASTIC BUSHING ON SET-SCREW CONNECTOR
- 2. CAULKING ACCORDING TO FIRE RATING, TYPICAL
- 3. WATER-TIGHT CONNECTORS IN ACCORDANCE WITH CODE AND SPECIFICATIONS
- 4. WATER-TIGHT FLEXIBLE CONDUIT WITH ENOUGH SLACK TO ALLOW BUILDING TO MOVE 12" WITHOUT OVER STRESSING CONDUIT. REFER TO PLANS FOR CONDUIT SIZES AND QUANTITY
- 5. CHANNEL STRUT BOLTED TO HEAVY L BRACKET
- 6. 3/8" X 1-1/2" MACHINE BOLT WITH WASHERS BOTH SIDES AND HEX NUT
- 7. 3/8" LAG SCREW, MIN. 2-1/2" EMBEDMENT
- 8. EXTERIOR OF BUILDING

RELOCATABLE BUILDINGS CONDUIT CONNECTION (3

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TRACY, CA 95377

ART FREILER ES - TK CLASSROOM

POWER & SIGNAL DETAILS

CONSTRUCTION DOCUMENTS

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PLEASE RECYCLE

FIRE ALARM GENERAL NOTES

- 1) THE FIRE ALARM SYSTEM SHALL CONFORM TO THE 2022 CALIFORNIA ELECTRICAL CODE ARTICLE 760, 2022 CALIFORNIA BUILDING CODE CHAPTER 9, AND THE 2022 CALIFORNIA FIRE CODE CHAPTER 9 & 2022 NFPA 72.
- 2) THESE DRAWINGS CONSTITUTE A "COMPLETE PLAN SUBMITTAL" AS DESCRIBED BY DSA.
 THE EXISTING FIRE ALARM SYSTEM IS AN ADDRESSABLE, CONVENTIONAL CLASS B SYSTEM.
 FIRE ALARM INITIATION WITHIN THE PROJECT SCOPE OF WORK SHALL BE FULL AUTOMATIC.
- 3) VISIBLE NOTIFICATION APPLIANCES SHALL MEET AND BE INSTALLED IN ACCORDANCE WITH

THE 2022 NFPA 72, CHAPTER 18.

- 4) AUDIBLE NOTIFICATION APPLIANCES SHALL MEET AND BE INSTALLED IN ACCORDANCE WITH THE 2022 NFPA 72, CHAPTER 18.
- 5) UPON COMPLETION OF THE SYSTEM INSTALLATION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF AND IN A MANNER ACCEPTABLE TO THE DSA PROJECT INSPECTOR. THE CONTRACTOR MUST SUPPLY NECESSARY TESTING EQUIPMENT INCLUDING A "SOUND LEVEL METER" TO CHECK ACCEPTABLE DECIBEL LEVELS OF AUDIBLE DEVICES, PROVIDE TEST RESULTS PER THE NFPA 72 "RECORD OF COMPLETION" TO THE ARCHITECT, DSA PROJECT INSPECTOR, OWNER, AND THE LOCAL FIRE AUTHORITY. ALL NORMALLY OCCUPIED AREAS SHALL BE PROVIDED WITH A FIRE ALARM AUDIBLE DECIBEL AT 15 DBA ABOVE MINIMUM NOISE LEVELS
- 6) THE ACTUAL FIRE ALARM NOTIFICATION CIRCUIT VOLTAGE DROP SHALL BE WITNESSED AND RECORDED BY THE DSA PROJECT INSPECTOR DURING THE TESTING OF THE CIRCUIT UNDER FULL LOAD.
- 7) THE "END OF LINE RESISTANCE" FOR EACH CIRCUIT SHALL BE TESTED IN THE PRESENCE OF THE DSA PROJECT INSPECTOR AND SHALL NOT EXCEED A MAXIMUM OF 10% OF THE 24 VOLT SYSTEM. EACH COMPONENT IN THE CIRCUIT SHALL NOT EXCEED THE LISTED MANUFACTURER'S MINIMUM OPERATING VOLTAGES. SEE NFPA 72, LOOP RESISTANCE. THIS SECTION REQUIRES THAT ALL INITIATING AND INDICATING (NOTIFICATION APPLIANCE) CIRCUITS BE MEASURED AND RECORDED.
- 8) FIRE ALARM CONTRACTOR SHALL PROVIDE A "RECORD OF COMPLETION" TO THE DSA INSPECTOR OF RECORD AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TESTS (PER NFPA 72 7.5.6)
- 9) THE SUPERVISING MONITORING AGENCY SHALL BE BY AN APPROVED SUPERVISING STATION PER CBC 907.2.3.5 & NFPA CHAPTER 26.
- 10) FIRE ALARM CONDUIT SHALL BE SIZED PER MANUFACTURER RECOMMENDATION, PROVIDE 3/4" MINIMUM.
- 11) PROVIDE ALL REQUIRED ELECTRONICS, CARDS, HARDWARE, ETC. FOR A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM AND MAKE ALL FINAL CONNECTIONS AS REQUIRED. PROVIDE ALL FIRE ALARM ZONE SCHEDULES AND ZONE INDICATORS AT FIRE ALARM CONTROL PANEL.
- 12) INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTATION AND SPECIFICATIONS, INCLUDING STATE FIRE MARSHALL LISTINGS SHEETS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY DSA.
- 13) A STAMPED SET OF APPROVED FIRE ALARM DESIGN DRAWINGS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
- 14) ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF
- 15) DSA, ARCHITECT/ENGINEER, AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
- 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.
- 17) AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
- 18) THE CONTRACTOR SHALL ADJUST/INSTALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
- 19) VISUAL DEVICES SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISUAL DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
- 20) UNDERGROUND AND EXTERIOR CONDUIT TO HAVE WATERTIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
- 21) ALL FIRE ALARM WIRING SHALL BE FPL OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR THWN.
- 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.
- 23) ALL FIRE ALARM CIRCUITS ARE TO BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE THE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON THE DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED
- WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.

 24) FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO DEVICE SHALL EXCEED THE WEIGHT

OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.

- 25) A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT AND THAT CIRCUIT SHALL BE ENERGIZED FROM A COMMON USE AREA PANEL. 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 TO BE LABELED AT FIRE PANEL/EXPANDERS.
- 26) THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6
- 27) SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TESTING.
- OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS. AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AND CBC 907.6.6.4. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUIS BY UL OR SHALL MEET THE REQUIREMENTS OF FM STANDARDS
- 29) BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION THE INSTALLING CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT TO THE DSA PROJECT INSPECTOR TO THE EFFECT THAT THE SYSTEM HAS BEEN INSTALLED AND TESTED IN ACCORDANCE WITH 2022 NFPA 72 SECTION 14.4.1.
- 30) TEST, INSPECTION, AND MAINTENANCE SHALL COMPLY WITH 2022 NFPA 72 CHAPTER 14

| EX | EXISTING FIRE ALARM COMPONENT SCHEDULE | | | | | | | | | | |
|---------|--|--------------|------------|------------------|--|--|--|--|--|--|--|
| SYMBOL | DESCRIPTION | MANUFACTURER | MODEL NO. | CSFM LISTING NO. | | | | | | | |
| FACP | FIRE ALARM CONTROL PANEL WITH INTEGRAL EVAC SYSTEM | GAMEWELL-FCI | E3 | 7165–1703:0125 | | | | | | | |
| FAPS-P1 | REMOTE POWER SUPPLY, PROVIDE 24VDC, 7AH BATTERY SYSTEM | FIRE-LITE | FCPS-24FS6 | 7315-0075:0206 | | | | | | | |
| AMP | VOICE AMPLIFIER (50 WATT, 70 VDC) | GAMEWELL-FCI | AM-50-70 | 7165–1703:0125 | | | | | | | |
| FACM | FIRE ALARM CONTROL MODULE, WAS THE PREVIOUS FACP, (E) BATTERY SYSTEM TO REMAIN | EST | EST3 | 7165–1657:0186 | | | | | | | |
| FAPS | REMOTE POWER SUPPLY | EST | BPS-6 | 7300–1657:0229 | | | | | | | |
| (\$) | SMOKE DETECTOR CEILING MOUNTED ADDRESSABLE | GAMEWELL-FCI | ASD-PL3 | 7272–1703:0501 | | | | | | | |
| Н | HEAT DETECTOR ATTIC MOUNTED (200°F) | GAMEWELL-FCI | ATD-L3H | 7270–1703:0502 | | | | | | | |
| EK | HORN | WHEELOCK | LSPSTRC3 | 7320-0785:0502 | | | | | | | |
| XXCD | HORN/STROBE (XX CD) | WHEELOCK | LSTRC3 | 7320-0785:0501 | | | | | | | |
| MM | MONITOR MODULE | EST | SIGA-CT1 | 7300-1591:0121 | | | | | | | |
| СМ | ADDRESSABLE CONTROL MODULE | GAMEWELL-FCI | AOM-2SF | 7300–1703:0102 | | | | | | | |

| NEW FIRE ALARM COMPONENT SCHEDULE | | | | | | | | | |
|--|---|---------------|------------------------|----------------------------------|--|--|--|--|--|
| SYMBOL | DESCRIPTION | MANUFACTURER | MODEL NO. | CSFM LISTING NO. | | | | | |
| ADDRESSABLE SMOKE DETECTOR W/ CEILING MOUNT BASE | | GAMEWELL-FCI | ASD-PL3 | 7272-1703:0501 | | | | | |
| H | ADDRESSABLE HEAT DETECTOR (190°F) ABOVE CEILING | GAMEWELL-FCI | ATD-L3H | 7270-1703:0502 | | | | | |
| | SENSOR BASE | SYSTEM SENSOR | B300-6 | 7300-1653:0109 | | | | | |
| 75CD | SPEAKER/STROBE, CEILING MOUNTED | SYSTEM SENSOR | SPSCRL | 7320–1653:0505 | | | | | |
| 15CD STROBE, CEILING MOUNTED | | SYSTEM SENSOR | SCRL | 7125–1653:0504 | | | | | |
| | SPEAKER (EXTERIOR) W/ WEATHERPROOF BACK BOX | WHEELOCK | ET-1010-R WBB-R WFP | 7320-0785:0105 7300-0785:0177 | | | | | |

| | FIRE ALAR | M | SE | ΞQ | UE | EN(| CE | C |)F | OP | ER | ΑTI | ON | |
|---|---|---------------|-----------------------------|--------------------------------|-----|-----|----|-----------------|-------------------------------|------|-------------------------------|---|--------|--|
| | X = REQUIRED ACTION BLANK MEANS NOT APPLICABLE | | | AL | ARM | | | | TROU | IBLE | | SUPER\ | /ISORY | |
| | CAUSE | ALARM AT FACP | ALARM AT OFF-SITE REPORTING | ACTIVATE AUDIBLE/VISUAL ALARMS | | | | TROUBLE AT FACP | TROUBLE AT OFF—SITE REPORTING | | SUPERVISORY CONDITION AT FACP | SUPERVISORY CONDITION AT OFF—SITE REPORTING | | REMARKS |
| 1 | SMOKE DETECTOR | Х | Х | Х | | | | | | | | | | |
| 2 | HEAT DETECTOR | Х | Х | Х | | | | | | | | | | |
| 3 | MANUAL PULL STATION | Х | Х | Х | | | | | | | | | | |
| 4 | DUCT DETECTOR | х | Х | х | | | | | | | | | | SHUTDOWN ASSOCIAT MECHANICAL UNIT (E MECHANICAL) |
| 5 | POWER FAILURE | | | | | | | Х | Х | | | | | |
| 6 | TAMPER SWITCH AT POST INDICATOR VALVE | | | | | | | | | | Х | Х | | |
| 7 | TAMPER SWITCH AT FIRE SPRINKLER RISER | | | | | | | | | | Х | Х | | |
| 8 | FLOW SWITCH AT FIRE SPRINKLER RISER | Х | Х | Х | | | | | | | | | | |
| 9 | FIRE ALARM TROUBLE (OPEN, SHORTS OR GROUNDS ON INITIATION, NOTIFICATION OR SIGNALING LINE CIRCUITS) | | | | | | | х | Х | | | | | |

| FIRE ALARM CABLE SCHEDULE | | | | | | | | | |
|---------------------------|----------------------|--------------------------------|--|--|--|--|--|--|--|
| DESIGN | DESCRIPTION | USE | | | | | | | |
| I | 2#16 GENESIS 4111 | FIRE ALARM ADDRESSABLE CABLE | | | | | | | |
| N | 2#12 GENESIS 4320 | FIRE ALARM NOTIFICATION WIRING | | | | | | | |
| S | 2#16 WEST PENN AQ225 | VOICE EVACUATION SPEAKER CABLE | | | | | | | |

BATTERY CAPACITY CALCULATIONS (FAPS-P1)

| DEVICE | QUANTITY | CURRENT F | PER DEVICE | STANDBY | ALARM CURRENT | |
|------------------------------|----------|-----------|------------|---------|------------------|--|
| DEVICE | QUANTITI | STANDBY | ALARM | CURRENT | | |
| (E) FIRE ALARM BOOSTER PANEL | 1 | 0.002 | 5.00 | 0.0020 | 5.0000 | |
| (E) STROBE (15CD) | 1 | 0 | 0.067 | 0.0000 | 0.0670 | |
| (E) SPEAKER/STROBE (75CD) | 2 | 0 | 0.111 | 0.0000 | 0.2220 | |
| (N) STROBE (15CD) | 1 | 0 | 0.067 | 0.0000 | 0.0670 | |
| (N) SPEAKER/STROBE (75CD) | 2 | 0 | 0.111 | 0.0000 | 0.2220 | |
| | | | TOTAL: | 0.0020 | 5.5780 | |

USING THE FOLLOWING FORMULA:

[(24 HOURS X STANDBY CURRENT) + (15 MINUTES X ALARM CURRENT)] X 1.25 SAFETY FACTOR = MINIMUM BATTERY AH

MINIMUM BATTERY AH REQUIRED ARE:

 $[(24 \times 0.002) + (0.25 \times 5.587)] \times 1.25 = 1.8$

 $[(24 \times 0.002) + (0.25 \times 5.587)] \times 1.25 = 1.80 \text{ AH}$ ENSURE A MINIMUM OF <u>7AH</u> BATTERY SYSTEM

BATTERY CAPACITY CALCULATIONS (AMP-P1)

| 25,405 | OLIANITITY | CURRENT F | PER DEVICE | STANDBY | ALARM CURRENT | |
|-------------------------------|------------|-----------|------------|---------|------------------|--|
| DEVICE | QUANTITY | STANDBY | ALARM | CURRENT | | |
| (E) VOICE EVAC AMPLIFIER, 50W | 1 | 0.306 | 1.85 | 0.3060 | 1.8500 | |
| (E) EXTERIOR SPEAKER | 1 | 0 | 0.083 | 0 | 0.0830 | |
| (N) EXTERIOR SPEAKER | 1 | 0 | 0.083 | 0 | 0.0830 | |
| (E) SPEAKER STROBE (75CD) | 2 | 0 | 0.0416 | 0 | 0.0832 | |
| (N) SPEAKER STROBE (75CD) | 2 | 0 | 0.0416 | 0 | 0.0832 | |
| | | | TOTAL: | 0.3060 | 2.1824 | |

USING THE FOLLOWING FORMULA:

[(24 HOURS X STANDBY CURRENT) + (15 MINUTES X ALARM CURRENT)] X 1.25 SAFETY FACTOR = MINIMUM BATTERY AH

MINIMUM BATTERY AH REQUIRED ARE:

 $[(24 \times 0.306) + (0.25 \times 2.1824)] \times 1.25 = 9.86 \text{ AH}$

 $[(24 \times 0.306) + (0.25 \times 2.1824)] \times 1.25 = 9.86$ ENSURE A MINIMUM OF 12AH BATTERY SYSTEM

| FIRE ALARM VOLTAGE DROP CALCULATIONS | | | | | | | |
|--------------------------------------|--------|---------|-----------|----------------------|-------------|--------------|-----------|
| CIRCUIT | LENGTH | CIRCUIT | WIRE SIZE | WIRE OHMS/ | TOTAL ALARM | VOLTAGE DROP | |
| NO. | (FT) | VOLTAGE | (AWG) | 1000 FT [*] | AMPS | VOLTS | % OF NOM. |
| NP1 | 280 | 24 | 12 | 2.01 | 0.5780 | 0.6506 | 2.71% |
| SP1 | 980 | 70 | 16 | 5.08 | 0.3324 | 3.3096 | 4.73% |
| NOTES: | | | | | | | |

SP1 980 70 16 5.08 0.3324 3.3096 4.73% OTES: 1. LONGEST LUMP SUM METHOD OPTIMIZEDENERG & FACILITIES CONSULTING, INC. 5734 Lonetree Boulevard, Rocklin, CA 95765 Office: (916) 626 5518 www.oefcinc.com

AGENCY

APPROVAL:

HMC Architects

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916 368 7990 / www.hmcarchitects.com

3595005000

SACRAMENTO, CA 95816

△ **DESCRIPTION**

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT

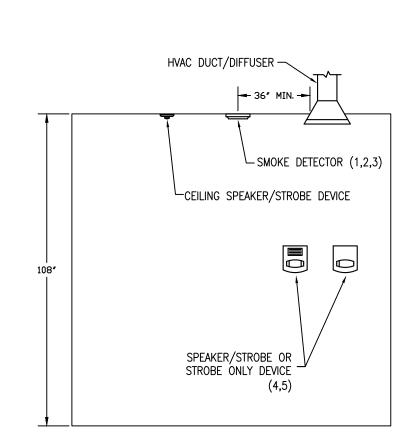
REVIEWED FOR

SS 🗹 FLS 🗹 ACS 🗹

DATE

APP: 02-122975 INC:

DATE: 03/12/2025



MAXIMUM DISTANCE BETWEEN SMOKE DETECTORS IS 30'
AND 15' FROM WALLS, MAXIMUM DISTANCE FROM A
CORNER IS 21' WITH CEILINGS 10' OR LESS

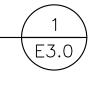
- 2. MOUNT SMOKE DETECTORS MINIMUM OF 3' AWAY FROM DIFFUSER VENT
- SMOKE DETECTORS SHALL BE MOUNTED ON THE CEILING MINIMUM 4" FROM WALL
- 4. MOUNT EXTERNAL SPEAKER AT 90" MINIMUM AND 100" MAXIMUM TO THE TOP OF THE DEVICE

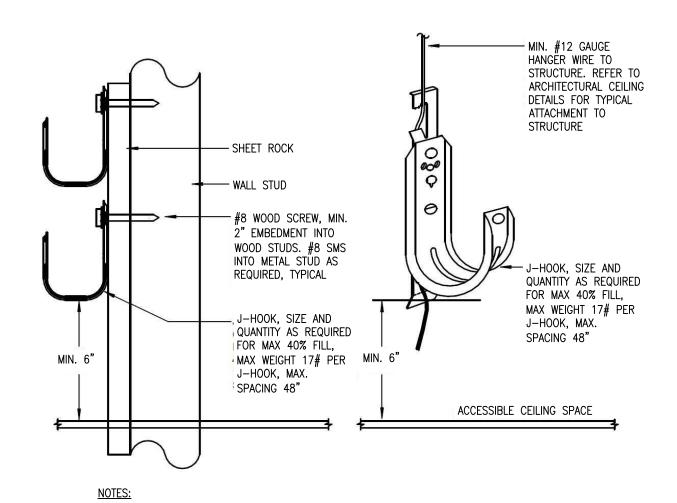
5. MOUNT SPEAKER/STROBE SO THE ENTIRE LENS IS WITHIN

80" AND 96" A.F.F.

- 6. TYPICAL HEIGHT FOR FIRE ALARM CONTROL PANEL IS 72 INCHES TO TOP OF ENCLOSURE. ADDITIONAL POWER SUPPLIES, NAC BOOSTER, DOCUMENTATION CABINET, ETC. MAY BE INSTALLED ADJACENT TO, BENEATH, OR ABOVE THE FIRE ALARM CONTROL PANEL AS LONG AS IT IS EASILY SERVICEABLE. FIRE ALARM EQUIPMENT MUST HAVE A 3 FOOT CLEARANCE FOR SERVICEABILITY
- 7. WITH EVERY NEW FIRE ALARM SYSTEM A DOCUMENTATION CABINET SHALL BE INSTALLED AT THE FIRE ALARM CONTROL PANEL. THE CABINET SHALL BE PROMINENTLY LABELED "SYSTEM RECORD DOCUMENTS" PER NFPA 72 7.7.2
- 8. MOUNT AUXILIARY POWER PANELS SO TOP IS WITHIN 3 INCHES OF CEILING

FIRE ALARM DEVICE ELEVATION DETAIL

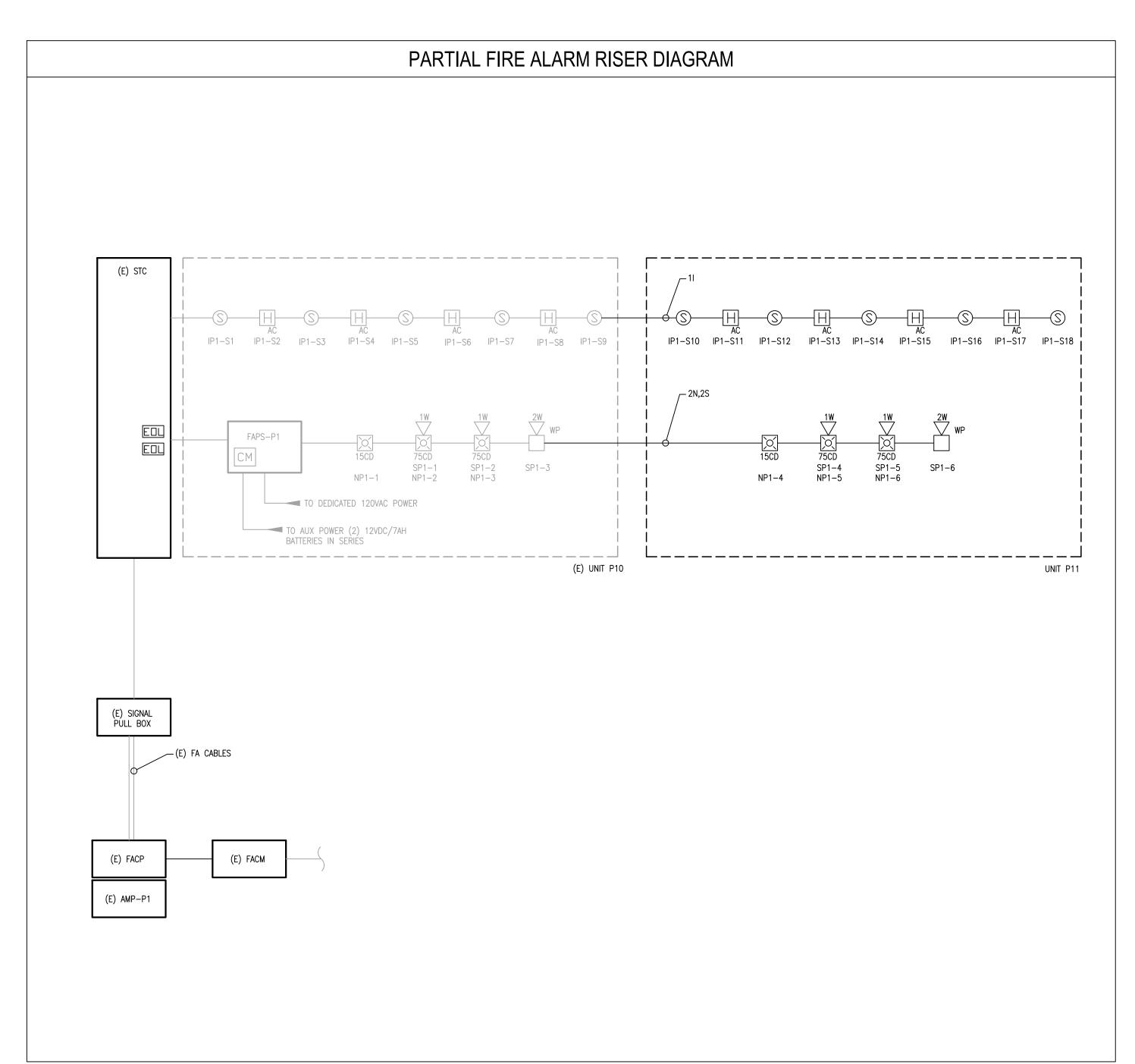




1. PROVIDE SEPARATE CABLE MANAGEMENT SYSTEM FOR EACH INDIVIDUAL LOW VOLTAGE SYSTEM 2. SPACING BETWEEN J-HOOKS SHALL BE 48" ON CENTER

CABLE SUPPORT DETAIL





ACILITY:

ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE TRACY, CA 95377

PROJECT:
ART FREILER ES - TK CLASSROOM

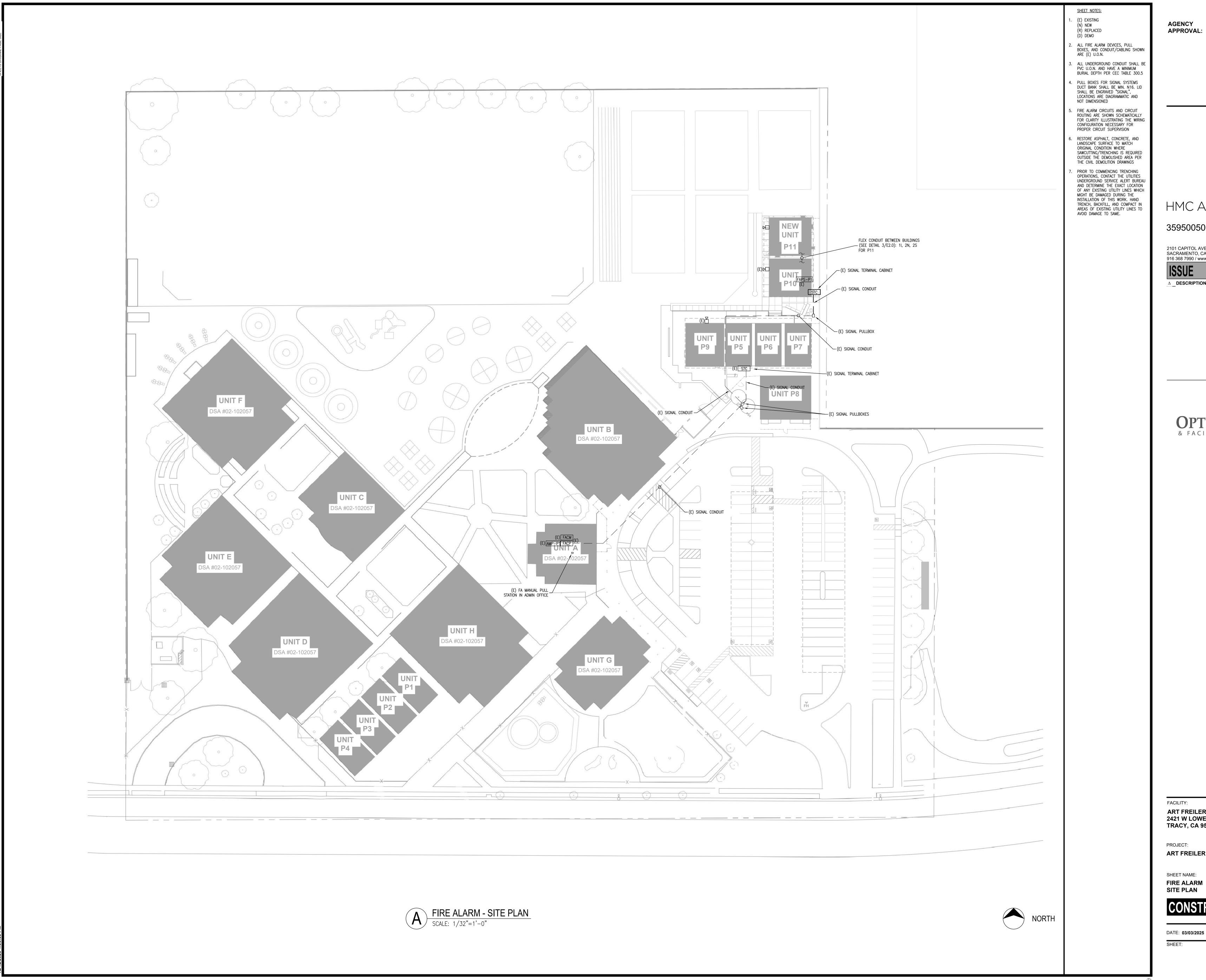
SHEET NAME:
FIRE ALARM
GENERAL NOTES, RISER DIAGRAM, & SCHEDULES

CONSTRUCTION DOCUMENTS

DATE: 03/03/2025 CLIENT PROJ NO: 3595005000

=30

PLEASE RECYCLE



DATE



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△ **DESCRIPTION**





ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE TRACY, CA 95377

ART FREILER ES - TK CLASSROOM

CONSTRUCTION DOCUMENTS

DATE: 03/03/2025

CLIENT PROJ NO: 3595005000

PLEASE RECYCLE

SHEET NOTES:

1. (E) EXISTING
(N) NEW
(R) REPLACED

(D) DEMO

2. ALL FIRE ALARM DEVICES AND CONDUIT/CABLING SHOWN ARE (N) AND CONTRACTOR FURNISHED—CONTRACTOR INSTALLED

FURNISHED—CONTRACTOR INSTALLED (CFCI) U.O.N.

 MINIMUM SIZE CONDUIT PATHWAY SHALL BE 3/4"Ø, U.O.N.
 FIRE ALARM SYSTEM INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS OF APPLICABLE CODES,

STANDARDS, AND STATE REGULATIONS

5. FIRE ALARM SYSTEM SHALL BE TESTED AND INSPECTED IN ACCORDANCE WITH NFPA 72, CHAPTER 14

6. FIRE ALARM CIRCUITS AND CIRCUIT
ROUTING ARE SHOWN SCHEMATICALLY
FOR CLARITY ILLUSTRATING THE WIRING
CONFIGURATION NECESSARY FOR
PROPER CIRCUIT SUPERVISION

7. COORDINATE CEILING MOUNTED FIRE ALARM DEVICE LOCATIONS WITH LIGHT FIXTURES AND HVAC GRILLES BY MODULAR BUILDING CONTRACTOR. AVOID ALL CONFLICTS AND ENSURE MINIMUM 3' CLEARANCE IS MAINTAINED FROM SMOKE DETECTOR TO ALL HVAC GRILLES

8. INSTALL FIRE ALARM CONDUCTORS IN CONDUIT OR METAL SURFACE RACEWAY WHEN IN EXPOSED SPACES. MINIMUM SIZE OF CONDUIT SHALL BE 3/4"ø. UTILIZE WIREMOLD 700 SERIES SURFACE RACEWAY (IN LIEU OF CONDUIT) FOR AREA WHERE CONDUIT CANNOT BE INSTALLED CONCEALED. CABLE ABOVE ACCESSIBLE CEILING CAN BE INSTALLED FREE AIR WHEN USING APPLICABLE CABLE. SUPPORT ALL FREE AIR CABLE EVERY 48" WITH J-HOOKS.

AGENCY APPROVAL:

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-122975 INC:

REVIEWED FOR SS FLS ACS DATE: 03/12/2025

DATE



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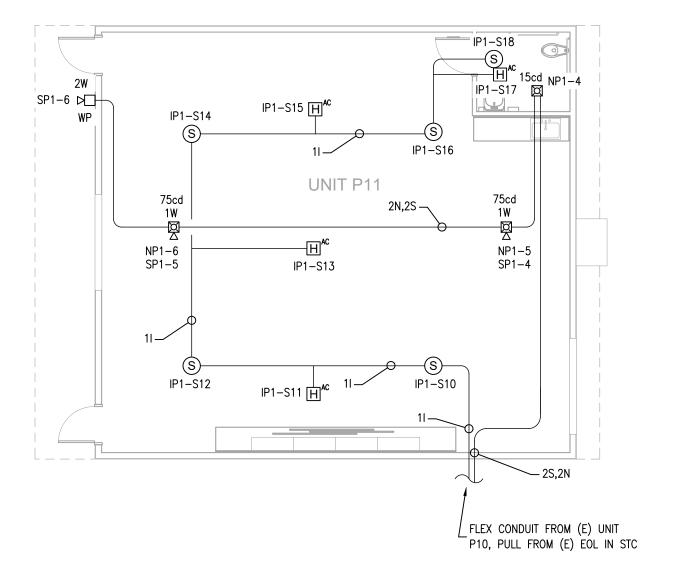
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ISSUI

△ DESCRIPTION







FIRE ALARM PLAN - RELOCATABLE CLASSROOM

SCALE: 1/8"=1'-0"



NORTH

FACILITY:

ART FREILER ELEMENTARY SCHOOL
2421 W LOWELL AVE

TRACY, CA 95377

PROJECT:

ART FREILER ES - TK CLASSROOM

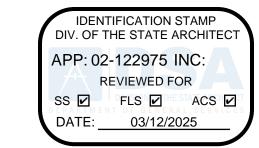
SHEET NAME:
FIRE ALARM
ENLARGED PLAN - RELOCATABLE CLASSROOM

CONSTRUCTION DOCUMENTS

DATE: **03/03/2025**

CLIENT PROJ NO: 3595005000

3.2



DATE

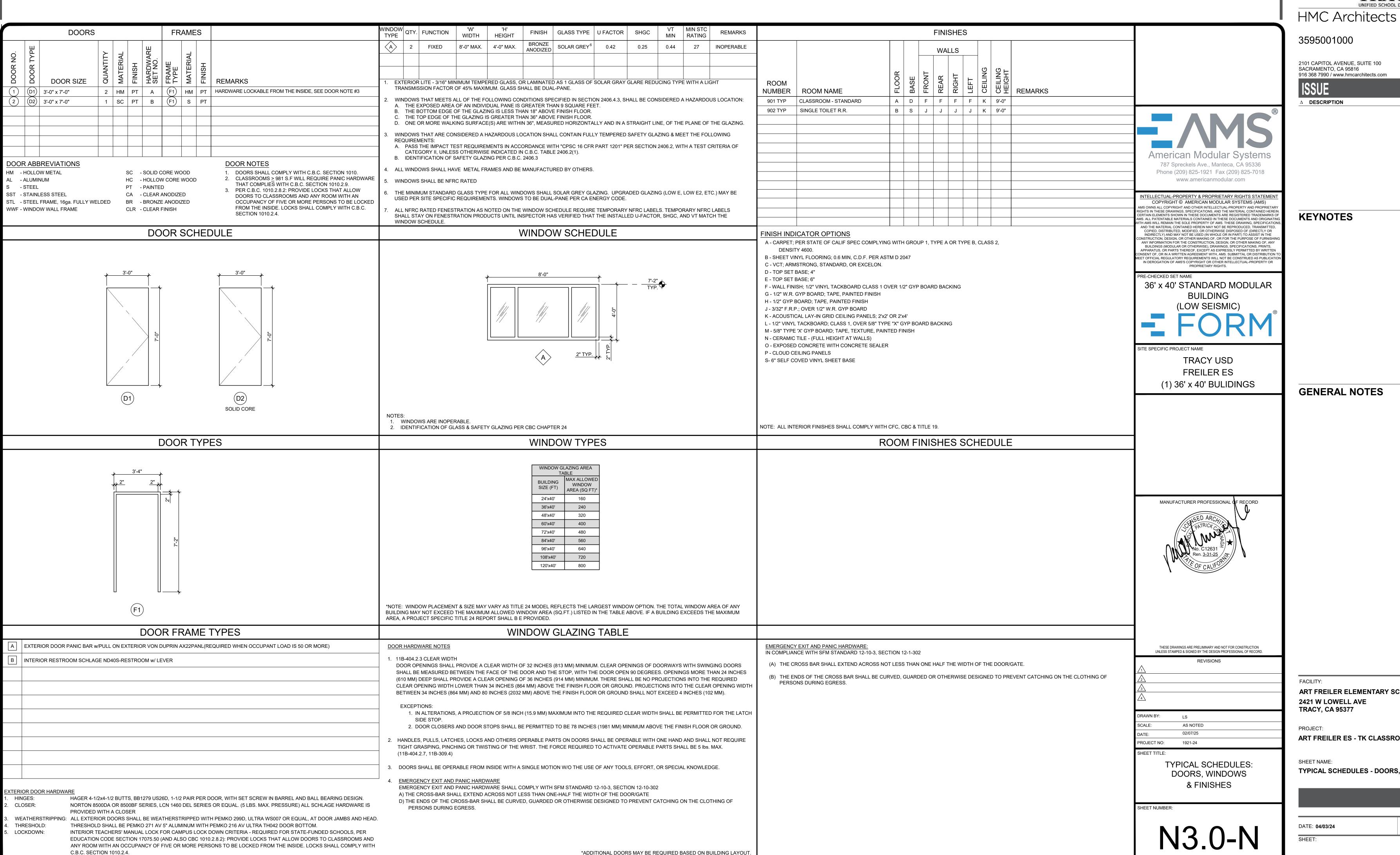


ART FREILER ELEMENTARY SCHOOL

ART FREILER ES - TK CLASSROOM

TYPICAL SCHEDULES - DOORS, WINDOWS & FINISHES

CLIENT PROJ NO: 3595001000



DOOR HARDWARE SCHEDULE

EMERGENCY EXIT AND PANIC HARDWARE

(x) = DOOR TYPE - SEE SCHEDULE, SHEET N3.0

 $\langle \chi \rangle$ = WINDOW TYPE - SEE SCHEDULE, SHEET N3.0

SYMBOLS LEGEND

X = DOOR HARDWARE - SEE HARDWARE SCHEDULE, SHEET N3.0

SINK OR

COUNTER

SURFACE,

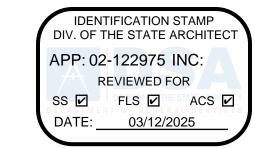
ELEVATION

16 CLASSROOM SINK

WHICHEVER IS HIGHER OR

SECTION B-B

SCALE: 1/4" = 1'-0" 17



DATE



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△ DESCRIPTION

GENERAL NOTES

ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE

PROJECT:

ART FREILER ES - TK CLASSROOM

SHEET NAME: TYPICAL FLOOR PLAN

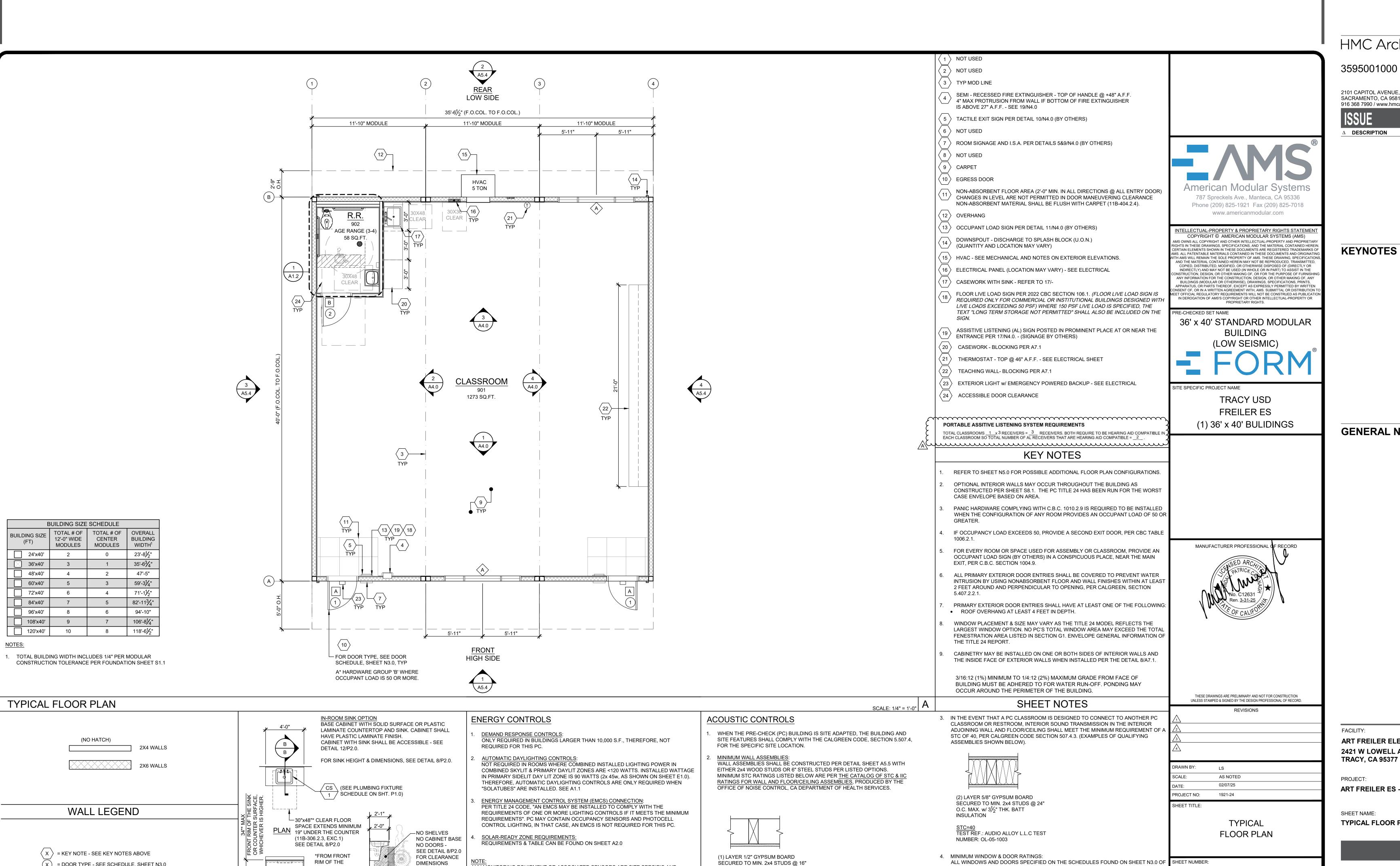
PLEASE RECYCLE 🗟

THIS PACKAGE SHALL MEET A MINIMUM STC RATING OF 27.

ACOUSTIC NOTES

DATE: 04/03/24 CLIENT PROJ NO: 3595001000





STC=28 (CATALOG SECTION 1.2.1.5.4.1)

TEST REF.: NATIONAL RESEARCH COUNCIL OF CANADA - NRC #66

ANY MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND

ENERGY NOTES

ARE NOT INCLUDED IN THE BASE PC.

NOT USED

16 NOT USED

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DATE



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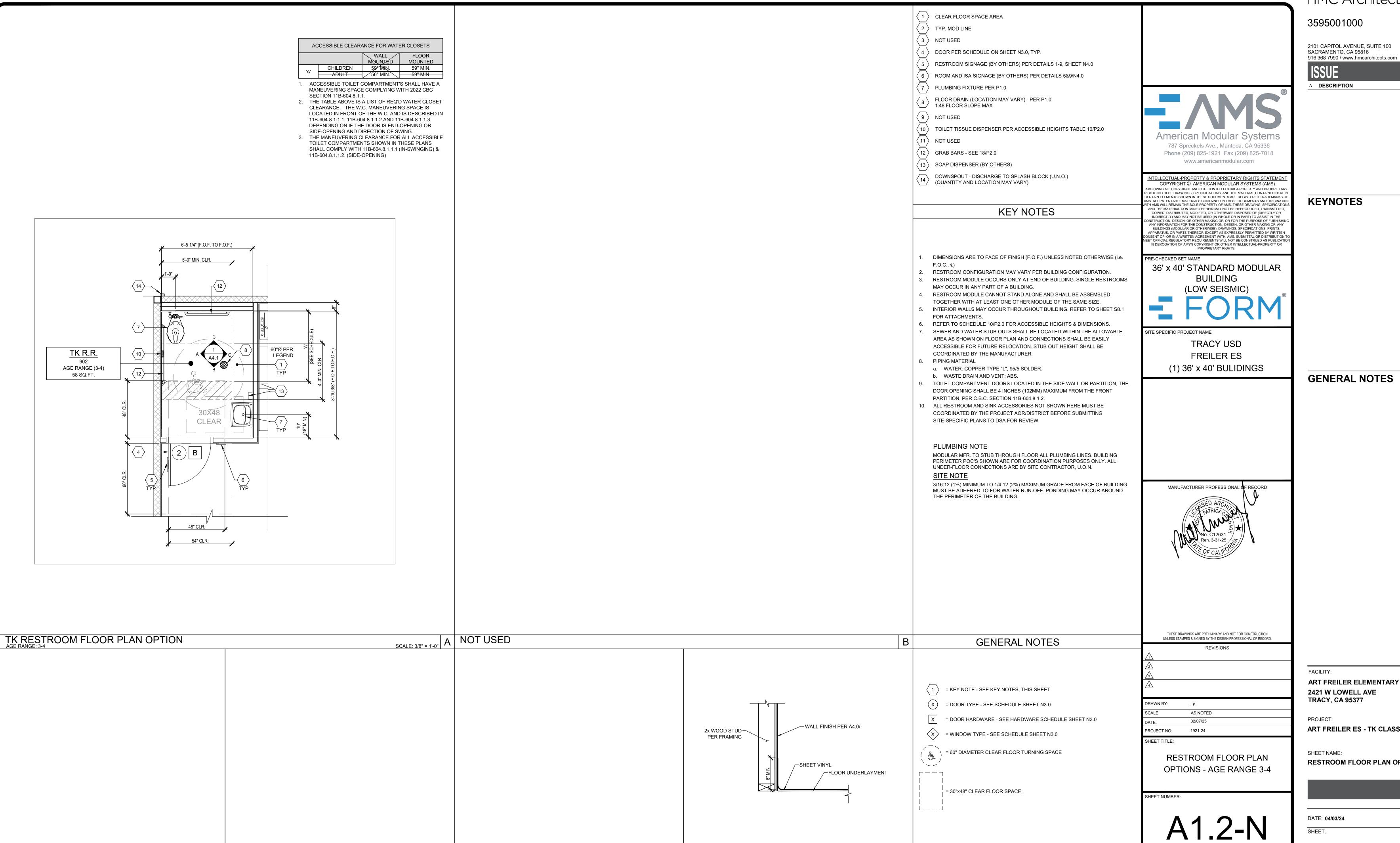
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GENERAL NOTES ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE ART FREILER ES - TK CLASSROOM

RESTROOM FLOOR PLAN OPTIONS - AGE RANGE 3-4

CLIENT PROJ NO: 35950010

ADDENDUM "A"



18 PROTECTION OF WOOD WALLS @ TOILET ROOMS | 19

17 NOT USED

SYMBOLS LEGEND SCALE: 1/4" = 1'-0" 20

+9'-0"
NOMINAL HEIGHT

+9'-0"
NOMINAL HEIGHT

WINDOW, SEE N3.0 FOR SPECS

4 TYP MOD LINE

5 TOP SET BASE

9 NOT USED

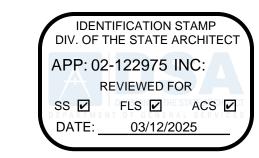
TYP EXTERIOR DOOR, SEE N3.0 FOR SPECS

 \langle 6 \rangle FULL PANEL CLOSE-UP AT MOD-LINES, TYP

(8) ELECTRICAL PANEL - SEE ELECTRICAL SHEETS

TEACHING WALL, BLOCKING AS NEEDED PER A7.1

TACKBOARD - (FLAME RESISTANT INDUSTRIAL TACKABLE BOARD) - SHALL BE CLASS A RATED (ASTM E-84). NOMINAL PANEL THICKNESS SHALL BE \pm 0.5" AND SHALL BE INSTALED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.



DATE



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GENERAL NOTES

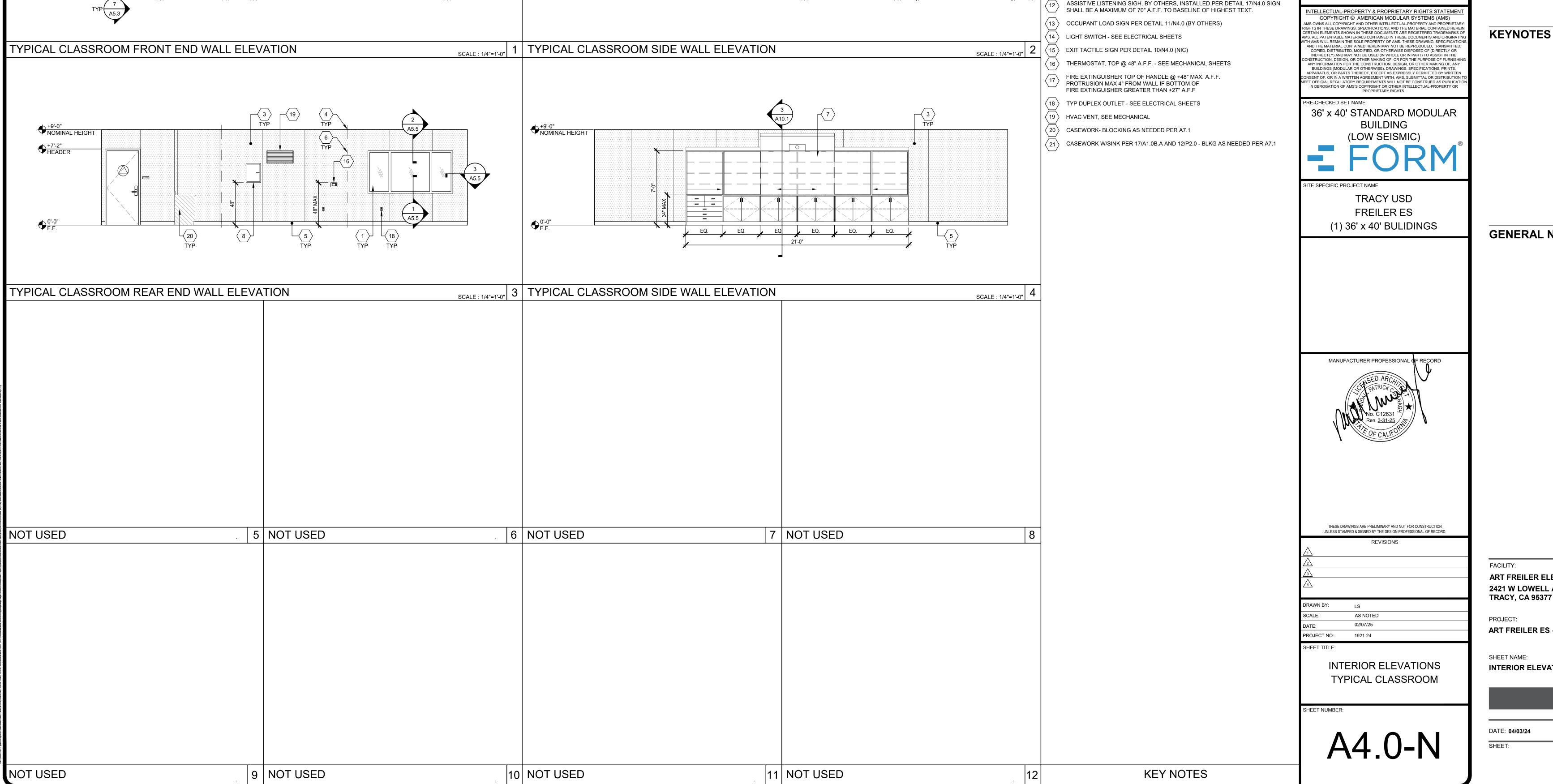
PLEASE RECYCLE 🗳

FACILITY: ART FREILER ELEMENTARY SCHOOL **2421 W LOWELL AVE** TRACY, CA 95377 PROJECT:

ART FREILER ES - TK CLASSROOM

SHEET NAME: INTERIOR ELEVATIONS TYPICAL CLASSROOM

CLIENT PROJ NO: 359500100



12 NOT USED

NOT USED

10 NOT USED

11 NOT USED

13 NOT USED

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-122975 INC: SS 🗹 FLS 🗹 ACS 🗹

PLEASE RECYCLE 🖏

DIV. OF THE STATE ARCHITEC SS 🗹 FLS 🗹 ACS 🗹

CLIENT PROJ NO: 3595001000

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DATE



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KEYNOTES

GENERAL NOTES

ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE

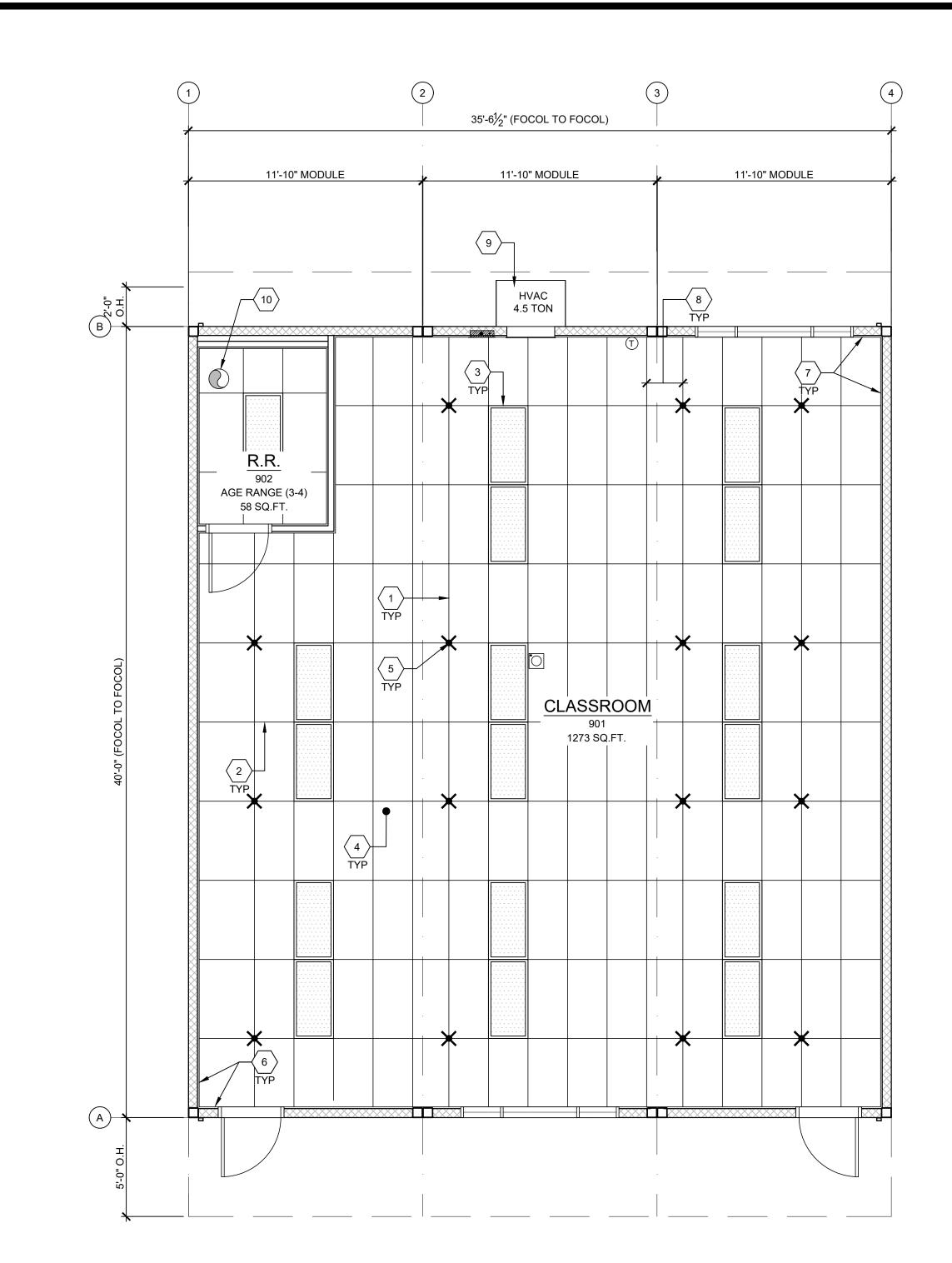
TRACY, CA 95377 PROJECT:

ART FREILER ES - TK CLASSROOM

SHEET NAME:

TYPICAL REFLECTED CEILING PLAN

DATE: 04/03/24 CLIENT PROJ NO: 3595001000



NOT USED

MAIN TEE RUNNER TYP. PER TABLE A, SHEET M1.7

CROSS TEE RUNNER TYP. PER TABLE A, SHEET M1.7

INTERIOR LIGHT FIXTURE, REFER TO SHEET SHEET E1.0 FOR SPEC'S ATTACHMENT PER DETAIL 7/M1.4

 \langle 4 \rangle CEILING HEIGHT @ 9'-0" MIN.

(5) STRUT/SPLAY WIRE ASSEMBLY, SEE 2/M1.4 FOR DETAILS

FIXED CEILING END, SEE DETAIL 5A/M1.4

FREE CEILING END, SEE DETAIL 5B/M1.4

CENTER SECTION THAT CROSSES MODULE LINE TO BE FIELD INSTALLED, SEE 8 DETAIL 5C/M1.4

9 TYP. HVAC UNIT

 \langle $_{10}\,
angle\,$ EXHAUST FAN - SEE M1.1

KEY NOTES

WHERE TWO OR MORE HVAC UNITS SERVE A COMMON SPACE, UNITS SHALL BE EQUIPPED WITH A DUCT SMOKE DETECTOR FOR AUTO SHUTDOWN. INTERCONNECT WITH FIRE ALARM SYSTEM.

AUTOMATIC SHUT-OFF IS NOT REQUIRED WHEN ALL OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE DIRECT ACCESS TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FT. PER C.M.C. 608.1 EXCEPTION #2.

LIGHT FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID. PC TITLE 24 HAS BEEN RUN FOR WORSE CASE OUTDOOR VENTILATION

REQUIREMENTS (SEE OUTDOOR VENTILATION ON SHEET N2.0 FOR OUR OUTDOOR VENTILATION DESIGN REQUIREMENT NOTES)

ACCEPTANCE TESTING PER ENERGY CODE SECTION 10-103.

ACCEPTANCE TESTS TO BE COMPLETED ON NEWLY INSTALLED OR REPLACEMENT OF MECHANICAL SYSTEMS BEFORE PROJECT COMPLETION PER THE CALIFORNIA ENERGY CODE SECTION 10-103. ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED ACCEPTANCE TEST TECHNICIAN (ATT). THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES CORRECTED UNTIL THE INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA. COMPLETED NRCA FORMS SHALL BE SUBMITTED TO THE PROJECT INSPECTOR AND THE DISTRICT.

36' x 40' STANDARD MODULAR BUILDING

American Modular Systems

787 Spreckels Ave., Manteca, CA 95336

Phone (209) 825-1921 Fax (209) 825-7018

www.americanmodular.com

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SITE SPECIFIC PROJECT NAME

PRE-CHECKED SET NAME

FREILER ES (1) 36' x 40' BULIDINGS

MEP COMPONENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30.

GENERAL NOTES

ALL PERMANENT EQUIPMENT AND COMPONENTS. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR110/220 VOLT RECEPTACLES HAVING A FLEXBLE

TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCE 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:

COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

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 NOTES

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 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 PRE-APPROVED 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 #) #_____

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

MANUFACTURER PROFESSIONAL

LS AS NOTED 02/07/25 PROJECT NO: 1921-24

> **TYPICAL** REFLECTED CEILING PLAN

SHEET NUMBER:

SHEET TITLE:

48'x40' 5 6

7

8

9

10 8

24'x40' |

72'x40' |

84'x40'

96'x40'

108'x40'

120'x40'

36'x40'

BUILDING SIZE SCHEDULE

BUILDING SIZE TOTAL # OF TOTAL # OF TOTAL FNDN

12'-0" WIDE CENTER

MODULES MODULES WIDTH

1

3

4

6

2 47'-5"

5 $|82'-11\frac{3}{4}'$

7 | 106'-81/4"

59'-31/4"

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

NOTES:

TOTAL BUILDING WIDTH INCLUDES $\frac{1}{4}$ " PER MODULE CONSTRUCTION TOLERANCE PER FOUNDATION SHEET S1.1

TYPICAL REFLECTED CEILING PLAN

NOT USED

NOT USED

BUILDING SIZE SCHEDULE

MEP COMPONENT ANCHORAGE NOTES

PLEASE RECYCLE 😂

DATE



HMC Architects

3595001000

2101 CAPITOL AVENUE, SUITE 100

SACRAMENTO, CA 95816 916 368 7990 / www.hmcarchitects.com

△ **DESCRIPTION**

KEYNOTES

GENERAL NOTES

ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE

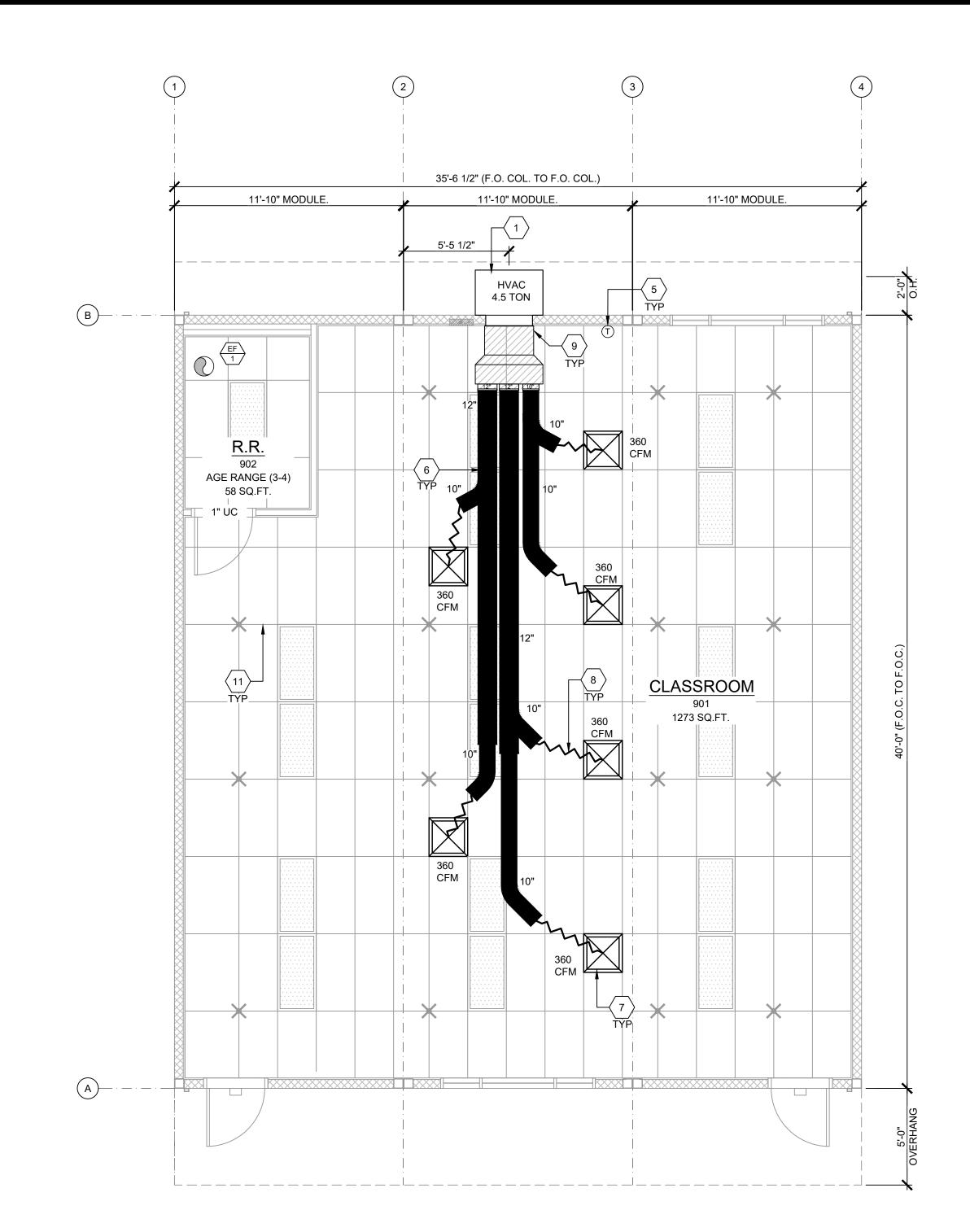
PROJECT:

TRACY, CA 95377

ART FREILER ES - TK CLASSROOM

SHEET NAME: TYPICAL MECHANICAL PLAN

CLIENT PROJ NO: 359500100



WALL HUNG HVAC UNIT - SEE 10/M1.4. NOT USED. 3 NOT USED (3A) NOT USED (3B) NOT USED 4 NOT USED 5 THERMOSTAT - 48" A.F.F, MAX TO TOP OF BOX 6 CONCEALED SUPPLY AIR DUCT ABOVE T-BAR CEILING - SEE 1/M1.4. TYPICAL 4-WAY SUPPLY AIR REGISTER LOCATION AND SIZE MAY VARY PER CEILING LAYOUT AND BUILDING SIZE - SEE 7/M1.5. (8) FLEX DUCT - NOMINAL 10" MIN. (MAY VARY) - SEE 8/M1.5. **American Modular Systems** 9 RETURN AIR AS PART OF UNIT. 787 Spreckels Ave., Manteca, CA 95336 (10) NOT USED Phone (209) 825-1921 Fax (209) 825-7018 www.americanmodular.com (11) STRUT/SPLAY WIRE ASSEMBLY, SEE 5/M1.4 FOR DETAILS (12) NOT USED INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMEN COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS) MS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETA GHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HER ERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARI IS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGIN NOTE: FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5 FEET IN LENGTH AND AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTE

AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTE SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS. FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN ELBOW AT A TERMINAL DEVICE PER ENERGY CODE 120.4 AND CMC 603.4.1 COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE ONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNIS ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, AN BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS,
APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEI NSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION ET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICAT IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS. PRE-CHECKED SET NAME 36' x 40' STANDARD MODULAR BUILDING (LOW SEISMIC) **KEY NOTES** SITE SPECIFIC PROJECT NAME TRACY USD FREILER ES (1) 36' x 40' BULIDINGS

> BUILDING SIZE SCHEDULE BUILDING SIZE TOTAL # OF TOTAL # OF CENTER FNDN MODULES MODULES WIDTH 24'x40' | 36'x40' 48'x40' 7 | 5 $|82'-11\frac{3}{4}$ 94'-10" 96'x40' 6 9 7 106'-81/4" 108'x40' 118'-6½" 10] 120'x40'| 8

NOT USED

1. TOTAL BUILDING WIDTH INCLUDES $\frac{1}{4}$ " PER MODULE CONSTRUCTION TOLERANCE PER FOUNDATION SHEET S1.1

2. REFER TO SHEET M1.7 FOR TYPICAL NOTES AND CALL OUTS.

BUILDING SIZE SCHEDULE MECHANICAL PLAN

- WHERE TWO OR MORE HVAC UNITS SERVE A COMMON SPACE, UNITS SHALL BE EQUIPPED WITH A DUCT SMOKE DETECTOR FOR AUTOMATIC SHUTDOWN. INTERCONNECT WITH FIRE ALARM SYSTEM. AIR-MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2000 CUBIC FEET PER MINUTE TO ENCLOSED
- SPACES WITHIN THE BUILDING SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF. AUTOMATIC SHUT-OFF IS NOT REQUIRED WHEN OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE A DIRECT EXIT TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT
- EXCEED 100 FT. (PER C.M.C. 608.1 EXCEPTION #2.) LIGHTING FIXTURE MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID.
- FOR T-BAR CEILING SPECIFICATIONS, SEE M1.7.
- 6. PROVIDE CO2 SENSORS AT ALL CLASSROOMS THAT MEET REQUIREMENTS OF CALGREEN 5.506.

7. EACH PUBLIC K-12 SCHOOL CLASSROOM, AS LISTED IN TABLE 120.1-A OF THE CALIFORNIA ENERGY CODE, SHALL BE EQUIPPED WITH A CARBON DIOXIDE MONITOR OR SENSOR THAT MEETS THE FOLLOWING REQUIREMENTS: 1.THE MONITOR OR SENSOR SHALL BE PERMANENTLY AFFIXED IN A TAMPER-PROOF MANNER IN EACH CLASSROOM BETWEEN 3 AND 6 FEET (914 MM AND 1829 MM) ABOVE THE FLOOR AND AT LEAST 5 FEET (1524 MM) AWAY FROM DOORS AND OPERABLE WINDOWS. 2.WHEN THE MONITOR OR SENSOR IS NOT INTEGRAL TO AN ENERGY MANAGEMENT CONTROL SYSTEM (EMCS), THE MONITOR OR SENSOR SHALL DISPLAY THE CARBON DIOXIDE READINGS ON THE DEVICE. WHEN THE SENSOR IS INTEGRAL TO AN EMCS, THE CARBON DIOXIDE READINGS SHALL BE AVAILABLE TO AND REGULARLY MONITORED BY FACILITY PERSONNEL. 3.A MONITOR SHALL PROVIDE NOTIFICATION THROUGH A VISUAL INDICATOR ON THE MONITOR WHEN THE CARBON DIOXIDE LEVELS IN THE CLASSROOM HAVE EXCEEDED 1,100 PPM. A SENSOR INTEGRAL TO AN EMCS SHALL PROVIDE NOTIFICATION TO FACILITY PERSONNEL THROUGH A VISUAL AND/OR AUDIBLE INDICATOR WHEN THE CARBON DIOXIDE LEVELS IN THE CLASSROOM HAVE EXCEEDED 1,100 PPM. 4.THE MONITOR OR SENSOR SHALL MEASURE CARBON DIOXIDE LEVELS AT MINIMUM 15-MINUTE INTERVALS AND SHALL MAINTAIN A RECORD OF PREVIOUS CARBON DIOXIDE MEASUREMENTS OF NOT LESS THAN 30 DAYS DURATION. 5.THE MONITOR OR SENSOR USED TO MEASURE CARBON DIOXIDE LEVELS SHALL HAVE THE CAPACITY TO MEASURE CARBON DIOXIDE LEVELS WITH A RANGE OF 400 PPM TO 2000 PPM OR GREATER. 6.THE MONITOR OR SENSOR SHALL BE CERTIFIED BY THE MANUFACTURER TO BE ACCURATE WITHIN 75 PPM AT 1,000 PPM CARBON DIOXIDE CONCENTRATION AND SHALL BE CERTIFIED BY THE MANUFACTURER TO REQUIRE CALIBRATION NO MORE FREQUENTLY THAN ONCE EVERY 5 YEARS.

8. PER ENERGY CODE 120.1(D): THERMOSTAT SHALL BE PROGRAMMED SO THAT THE AIR HANDLER FAN WILL RUN CONTINUALLY DURING OCCUPIED TIMES. PRE-OCCUPANCY PURGE SHALL BE PROGRAMED ONE HOUR PRIOR TO THE MODULAR BUILDING BEING NORMALLY OCCUPIED. SHOW THERMOSTAT PLACEMENT ON THE PLANS TO BE PLACED AWAY FROM DOORS AND OPERABLE WINDOWS. MECHANICAL PLANS SHOW THERMOSTAT AND SENSOR LOCATIONS, CONTROL DEVICES, AND INCLUDE A CONTROL SEQUENCE OF OPERATIONS. MANUAL OVERRIDE CONTROLS ARE A MANDATORY MEASURE UNDER ENERGY CODE SECTION 120.2(E). ALL HVAC SYSTEMS SHALL HAVE A MANUAL OVERRIDE ACCESSIBLE TO THE OCCUPANTS THAT ALLOWS THEM TO TURN ON THE HVAC SYSTEM DURING NORMALLY UNOCCUPIED TIMES. THIS CAN BE A MANUAL OVERRIDE FOR UP

TO 4 HOURS, OCCUPANCY SENSOR OR A 4 HOUR MANUALLY OPERATED TIMER.

MARK DESCRIPTION CFM WATTS S.P. VOLT/PH **NUTONE AN110 CEILING MOUNTED** \rightarrow EXHAUST FAN | 110 | 47.3 | .10" | 120-1 \emptyset | 180 Θ INPUT 10 LBS (OR EQUAL)

- 2. FANS MUST WEIGH LESS THAN 25 LBS.
- 3. LIGHTING FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID LAYOUT.

EXHAUST FAN SCHEDULE

1. VENT EXHAUST FAN THROUGH THE ROOF

4. FOR INSTALLATION DETAILS REFER TO AA & 16/M1.6

SHEET NUMBER:

PLEASE RECYCLE (4.2)

SHEET NOTES

TYPICAL MECHANICAL PLAN

MANUFACTURER PROFESSIONAL O

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION

UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

RAWN BY:

PROJECT NO:

SHEET TITLE:

LS

AS NOTED

02/07/25

DATE



HMC Architects

3595001000

2101 CAPITOL AVENUE, SUITE 100 SACRAMENTO, CA 95816

916 368 7990 / www.hmcarchitects.com

△ **DESCRIPTION**

KEYNOTES

GENERAL NOTES

TRACY, CA 95377

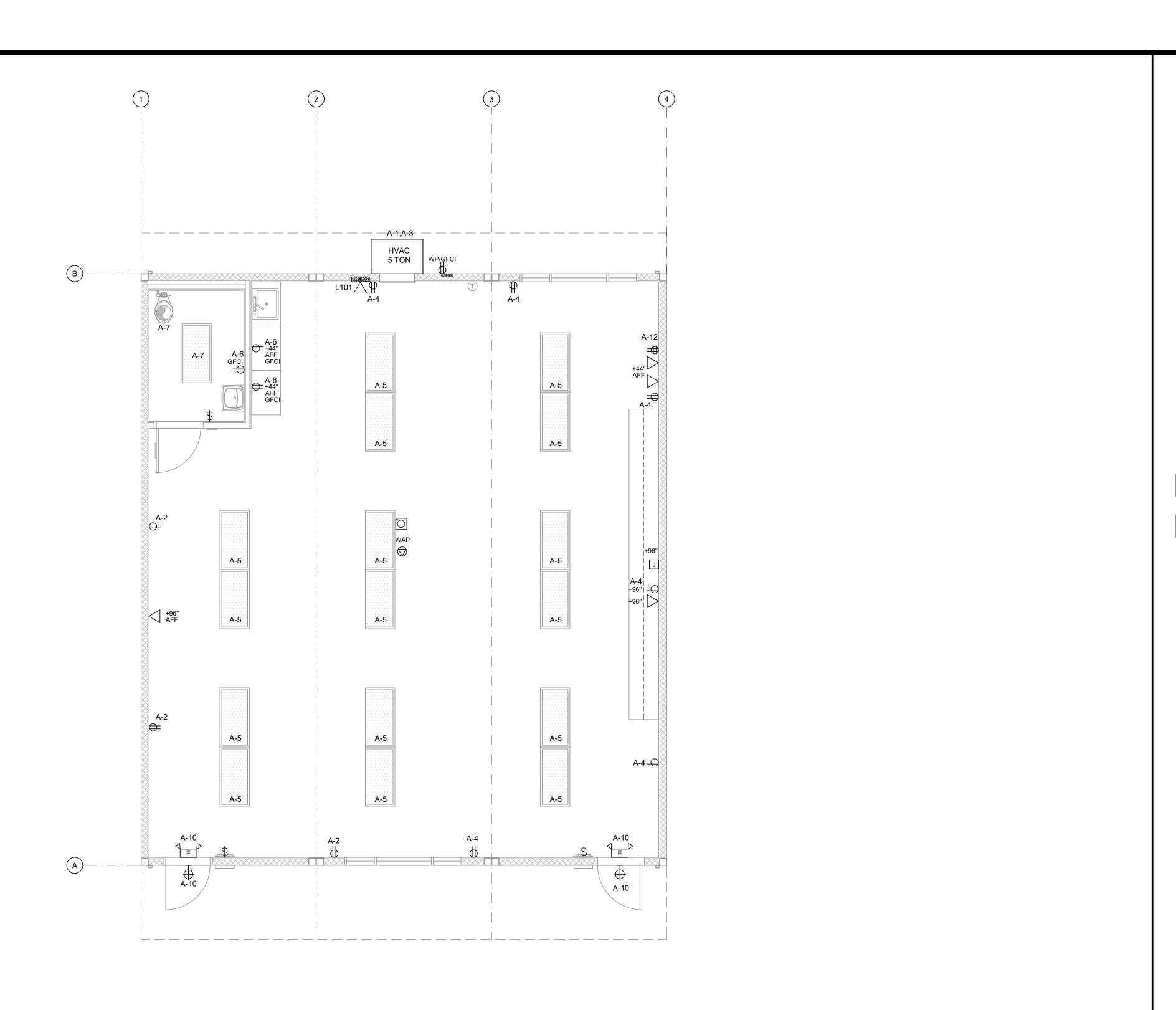
FACILITY: ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE

PROJECT: ART FREILER ES - TK CLASSROOM

SHEET NAME: TYPICAL ELECTRICAL PLAN

DATE: 04/03/24 CLIENT PROJ NO: 3595001000

ADDENDUM "A"



THE PROJECT ARCHITECT SHALL BE RESPONSIBLE FOR THE PLACEMENT

COMPLETE FIRE ALARM SYSTEM WHEN THE SITE SPECIFIC PROJECT IS

OF HEAT & SMOKE DETECTORS, EVACS AND PULL STATIONS, AND

ANY MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE

REQUIRING 2 OR MORE EXITS, PROVIDE EXIT SIGNS (CBC 1013) AND

STUB-OUT LOCATIONS FOR ELECTRICAL PANEL, FIRE ALARM, AND DATA

BOXES ARE SHOWN DIAGRAMMATICAL ONLY. EXACT LOCATIONS MAY

SYSTEMS FOR EXACT LOCATIONS. POINT OF CONNECTION WILL BE AT

SPACE WITH 1/2" MIN. GALV. THIN WALL TUBING (EMT). DO NOT CONNECT

THE LIGHTS FOR EACH ROOM OVER 250 SQ FT SHALL BE CONTROLLED

VARY +/- SEVERAL FEET. PLEASE CONTACT AMERICAN MODULAR

. STUB-UP ALL FIRE ALARM JUNCTION BOXES TO ACCESSIBLE ATTIC

FIRE ALARM CONDUIT WITH ANY OTHER ELECTRICAL CONDUIT.

BY ULTRASONIC OCCUPANCY SENSOR: WATT STOPPER W-500A,

. FIXTURE MOUNTING SHALL COMPLY WITH CALIFORNIA SEISMIC

W-1000A, OR W-2000A (OR EQUAL) BASED ON THE ROOM SIZE, IN

REQUIRED TO MEET THE PROVISIONS OF SB 575 & CBC 907.2.3.

. PULL STATIONS ARE REQUIRED AT EVERY EXIT. AT ANY SPACE

SPECIFIC AND ARE NOT INCLUDED IN THIS BASE PC.

EMERGENCY EXIT ILLUMINATION (CBC 1008).

4. SEE PLANS FOR LOCATIONS OF ALL DEVICES.

CONJUNCTION WITH BI-LEVEL SWITCHING.

FACE OF BUILDING.

TYPICAL ELECTRICAL PLAN

ULTRASONIC CEILING

OCCUPANCY SENSOR OR

COMBINATION

SENSOR

REQUIRED FOR OFFICES, LOBBY, AND

MEETING ROOMS ONLY.

OCCUPANCY/PHOTOCELL

CONTROLLED

OUTLET

UNCONTROLLED

OUTLET

ENERGY CONTROLS

SENSOR.

FOR THIS PC.

TO ROOM

AND ARE NOT INCLUDED IN THE BASE PC.

SOLAR-READY ZONE REQUIREMENTS:

NOT REQUIRED IN ROOMS WHERE COMBINED INSTALLED LIGHTING POWER IN

WATTAGE IN PRIMARY SIDELIT DAY LIT ZONE IS 90 WATTS (2x 45w. AS SHOWN IN

THE SHADED AREAS). THEREFORE, AUTOMATIC DAYLIGHTING CONTROLS ARE

ONLY REQUIRED WHEN "SOLATUBES" ARE INSTALLED. SEE A1.1. WHEN DAYLIT

CONTROLS ARE REQUIRED, PROVIDE COMBINATION OCCUPANCY/PHOTOCELL

PER TITLE 24 CODE, "AN EMCS MAY BE INSTALLED TO COMPLY WITH THE

REQUIREMENTS OF ONE OR MORE LIGHTING CONTROLS IF IT MEETS THE

MINIMUM REQUIREMENTS". PC MAY CONTAIN OCCUPANCY SENSORS AND

PHOTOCELL CONTROL LIGHTING, IN THAT CASE, AN EMCS IS NOT REQUIRED

NOTE: ANT MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC

ENERGY NOTES

PROGRAMMABLE SWITCH

- OCCUPANCY SENSOR

- PHOTOCELL SENSOR

- ROOM CONTROL (0-10V DIMMING)

ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) CONNECTION:

REQUIREMENTS & TABLE CAN BE FOUND ON SHEET A2.0

SUGGESTED CONTROLS DIAGRAM FOR TYPICAL DAYLIT ZONE:

COMBINED SKYLIT & PRIMARY DAYLIT ZONES ARE <120 WATTS. INSTALLED

EXTERIOR LIGHT FIXTURE @ EACH DOOR, LED OR EQUAL (MAX 40W) - WHERE THERE ARE TWO OR MORE EXITS, A MINIMUM 90 MIN. BATTERY BACK-UP IS REQUIRED UNCONTROLLED-DUPLEX WALL CONVENIENCE OUTLET -MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N. FOURPLEX WALL OUTLET - MOUNT @ +18" A.F.F. TO CENTER LINE - U.O.N. WP/GFCI WEATHER-PROOF GROUND FAULT CIRCUIT INTERRUPT OUTLET - MOUNT @ 18" A.F.F. TO CENTERLINE - U.O.N. THERMOSTAT - TOP OF BOX MOUNTED @ +48" A.F.F. 787 Spreckels Ave., Manteca, CA 95336 Phone (209) 825-1921 Fax (209) 825-7018 ELECTRICAL CROSSOVER - J-BOX - ABOVE CEILING -#1- 4"x1", #22- 4"x2" www.americanmodular.com DATA/COMMUNICATION - OUTLET ONLY - 4" SQ BOX WITH NTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMEN SINGLE DEVICE RING AND COVER - MOUNT @ +18" A.F.F. COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS) TO CENTERLINE, U.O.N., AND PROVIDE A 3/4" CONDUIT MS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETAR STUBBED ABOVE CEILING - DEVICE BY OTHERS GHTS IN THESE DRAWINGS. SPECIFICATIONS. AND THE MATERIAL CONTAINED HER RTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADE MS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINA AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFIC AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED. TRANSMITT CONTROLLED-SINGLE POLE LIGHT SWITCHES - MOUNT @ COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR +48" A.F.F. MAX TO TOP OF BOX - HUBBELL PREMIUM, INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE ONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURI BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE. ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF A BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTE NSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION
ET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATI ULTRASONIC OCCUPANCY SENSOR - MOUNTED TO FINISH IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OF PROPRIETARY RIGHTS. CEILING (PROVIDE WITH COMBINATION PHOTOCELL SENSOR WHEN DAYLIT CONTROLS ARE REQUIRED) RE-CHECKED SET NAME 36' x 40' STANDARD MODULAR 2'x4' LED EDGE FIT FIXTURE, MODEL: LSI, SFP24 BUILDING 5601K LUMENS - 45 WATTS MAX OR EQUAL 24 HOUR EMERGENCY LIGHTING WITH MINIMUM 90-MINUTE BATTERY BACK-UP - WHERE TWO OR MORE EXITS ARE REQUIRED EMERGENCY EXIT LIGHT, - WHERE THERE ARE TWO OR MORE EXITS, AN EXIT SIGN WITH INTEGRAL EMERGENCY SITE SPECIFIC PROJECT NAME LIGHTING W/MINIMUM 90-MINUTE BATTERY BACK-UP IS REQUIRED. TRACY USD FREILER ES (1) 36' x 40' BULIDINGS RAWN BY: SCALE:

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

9. LIGHTING FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO

10. ACCEPTANCE TESTS SHALL BE COMPLETED ON NEWLY INSTALLED OR

PER THE CALIFORNIA ENERGY CODE SECTION 10-103. ACCEPTANCE

TESTS MUST BE PERFORMED BY A CERTIFIED ACCEPTANCE TEST TECHNICIAN (ATT). THE ACCEPTANCE TESTING PROCEDURES MUST BE

THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED

1. DEMAND RESPONSE CONTROLS ARE REQUIRED IN BUILDINGS LARGER

3. DEMAND RESPONSE CONTROLS AND EQUIPMENT SHALL BE CAPABLE OF

STANDARD-BASED MESSAGING PROTOCOL WHICH ENABLES DEMAND

CONTROLS MUST INCLUDE THE SUBMITTAL OF FORM NRCC-ELC-O1-E TO

RECEIVING AND AUTOMATICALLY RESPONDING TO AT LEAST ONE

ACCEPTANCE CRITERIA. COMPLETED NRCA FORMS SHALL BE

SUBMITTED TO THE PROJECT INSPECTOR AND THE DISTRICT.

2. DEMAND RESPONSE CONTROLS, WHERE REQUIRED, ARE TO BE

4. SITE-SPECIFIC PROJECTS WHICH REQUIRE DEMAND RESPONSE

RESPONSE AFTER RECEIVING A DEMAND SIGNAL.

REPLACEMENT OF LIGHTING CONTROLS BEFORE PROJECT COMPLETION

REPEATED, AND DEFICIENCIES CORRECTED UNTIL THE INSTALLATION OF

MATCH T-BAR GRID LAYOUT.

DEMAND RESPONSE CONTROLS

PROVIDED BY OTHERS.

DSA (BY OTHERS).

GENERAL NOTES

ELECTRICAL PANEL - MOUNT FLUSH WITH WALL FINISH,

MANUFACTURER PROFESSIONAL

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

AS NOTED 02/07/25 ROJECT NO: 1921-24

> **TYPICAL** ELECTRICAL PLAN

SHEET NUMBER:

ELECTRICAL SYMBOLS

SHEET TITLE:

NOT USED



DATE



HMC Architects

3595001000

2101 CAPITOL AVENUE, SUITE 100 SACRAMENTO, CA 95816

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DESCRIPTION

2X4 FLUORESCENT FIXTURES SHALL HAVE A STEEL FRAME, LENS SHALL BE HINGED DRAWN BY: LS

8. FLUORESCENT BALLAST SHALL BE ENERGY SAVER WHILE MAINTAINING FULL LIGHT AS NOTED OUTPUT, CLASS "P" EQUIPPED WITH THERMAL PROTECTORS, GUARANTEED 02/07/25 AGAINST FAILURE FOR (2) YEARS AND BE REPLACEABLE FROM INSIDE THE ROJECT NO: 1921-24

SHEET TITLE: 9. CLOCK - 12" DIAL CLOCK ON CLOCK OUTLET. CLOCK SHALL BE GENERAL ELECTRIC MODEL 2912 129V 60 CYCLE

CLOCK OUTLET SHALL BE BRYANT #2828 OR EQUAL WITH SEPARABLE HANGING CLIP & APP'D RECEPT. THE H.V.A.C. UNIT FEEDER CIRCUIT - PANEL

CIRCUIT BREAKER, FEEDER WIRE, UNIT DISCONNECT AND FUSES (WHERE USED) - IS TO BE COORDINATED WITH THE NAME PLATE DATA AT THE TIME OF MANUFACTURE. H.V.A.C. UNITS HAVING KVA RATINGS LARGER THAN THAT INDICATED ON THIS PANEL SCHEDULE WILL NOT BE ALLOWED TO BE INSTALLED ON THIS BUILDING.

C. IF 60 DEGREES WIRE IS TO BE USED IN THIS INSTALLATION, CALCULATIONS DEMONSTRATING AMPACITY SHALL BE PROVIDED ON THE DRAWING.

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IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED.

PROPRIETARY RIGHTS. FLASHES PER SECOND (2 HZ), NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ).

PRE-CHECKED SET NAME 36' x 40' STANDARD MODULAR BUILDING AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA (LOW SEISMIC) 72 CHAPTER 26. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR

SITE SPECIFIC PROJECT NAME

TRACY USD FREILER ES (1) 36' x 40' BULIDINGS

MANUFACTURER PROFESSIONAL (

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

AND LOCKED IN PLACE BY TWO LOCKING DEVICES. THE LENS DIFFUSERS SHALL BE

ELECTRICAL NOTES &

DETAILS

SHEET NUMBER:

KEYNOTES

GENERAL NOTES

ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE **TRACY. CA 95377**

PROJECT: ART FREILER ES - TK CLASSROOM

SHEET NAME: **ELECTRICAL NOTES & DETAILS**

CLIENT PROJ NO: 359500100 DATE: 04/03/24

ADDENDUM "A"

TYPICAL ROOF PURLIN — - ANVIL FIG. 551 THREADED SIDE BEAM BRACKET w/ (2) 1/4"x1" TECK SCREWS PER ICC ESR 1976 $-\frac{3}{8}$ "Ø ALL THREAD ROD @ 96" O.C. MAX AND 24" MAX FROM ENDS PROVIDE MIN. (2) PER 10' PIECE - CABLE TRAY CABLOFIL CF 105/300 EZ OR EQUAL CABLE TRAY BY OTHERS, MAX COMBINED WEIGHT OF CABLES & CABLE TRAY = 5 LBS/FT CABLOFIL HANGER FASPCH 300 120 LBS MAX WEIGHT CABLE TRAY DETAIL

250.52 GROUNDING ELECTRODES.

250.52(A) ELECTRODES PERMITTED FOR GROUNDING.

(1) METAL UNDERGROUND WATER PIPE. A METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 3.0 M (10 FT) OR MORE (INCLUDING ANY METAL WELL CASING BONDED TO THE PIPE) AND ELECTRICALLY CONTINUOUS (OR MADE ELECTRICALLY CONTINUOUS BY BONDING AROUND INSULATING JOINTS OR INSULATING PIPE) TO THE POINTS OF CONNECTION OF THE GROUNDING ELECTRODE CONDUCTOR AND THE BONDING CONDUCTOR(S) OR JUMPER(S), IF INSTALLED.

(2) METAL IN-GROUND SUPPORT STRUCTURE(S). ONE OR MORE METAL IN-GROUND SUPPORT STRUCTURE(S) IN DIRECT CONTACT WITH THE EARTH VERTICALLY FOR 3.0 M (10 FT) OR MORE, WITH OR WITHOUT CONCRETE ENCASEMENT. IF MULTIPLE METAL IN-GROUND SUPPORT STRUCTURES ARE PRESENT AT A BUILDING OR A STRUCTURE, IT SHALL BE PERMISSIBLE TO BOND ONLY ONE INTO THE GROUNDING ELECTRODE SYSTEM. INFORMATIONAL NOTE: METAL IN-GROUND SUPPORT STRUCTURES INCLUDE, BUT ARE NOT LIMITED TO,

(3) CONCRETE-ENCASED ELECTRODE. A CONCRETE-ENCASED ELECTRODE SHALL CONSIST OF AT LEAST 6.0 M

) ONE OR MORE BARE OR ZINC GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE COATED STEEL REINFORCING BARS OR RODS OF NOT LESS THAN 13 MM (1/2 IN.) IN DIAMETER, INSTALLED IN ONE CONTINUOUS 6.0 M (20 FT) LENGTH, OR IF IN MULTIPLE PIECES CONNECTED TOGETHER BY THE USUAL STEEL TIE WIRES, EXOTHERMIC WELDING, WELDING, OR OTHER EFFECTIVE MEANS TO CREATE A 6.0 M (20 FT) OR GREATER LENGTH; OR

(2) BARE COPPER CONDUCTOR NOT SMALLER THAN 4 AWG

GROUNDING ELECTRODE SYSTEM.

PILINGS, CASINGS, AND OTHER STRUCTURAL METAL.

METALLIC COMPONENTS SHALL BE ENCASED BY AT LEAST 50 MM (2 IN.) OF CONCRETE AND SHALL BE LOCATED HORIZONTALLY WITHIN THAT PORTION OF A CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH OR WITHIN VERTICAL FOUNDATIONS OR STRUCTURAL COMPONENTS OR MEMBERS THAT ARE IN DIRECT CONTACT WITH THE EARTH. IF MULTIPLE CONCRETE-ENCASED ELECTRODES ARE PRESENT AT A BUILDING OR STRUCTURE, IT SHALL BE PERMISSIBLE TO BOND ONLY ONE INTO THE

INFORMATIONAL NOTE: CONCRETE INSTALLED WITH INSULATION, VAPOR BARRIERS, FILMS OR SIMILAR ITEMS SEPARATING THE CONCRETE FROM THE EARTH IS NOT CONSIDERED TO BE IN "DIRECT CONTACT" WITH THE

(4) GROUND RING. A GROUND RING ENCIRCLING THE BUILDING OR STRUCTURE, IN DIRECT CONTACT WITH THE EARTH, CONSISTING OF AT LEAST 6.0 M (20 FT) OF BARE COPPER CONDUCTOR NOT SMALLER THAN 2

(5) ROD AND PIPE ELECTRODES. ROD AND PIPE ELECTRODES SHALL NOT BE LESS THAN 2.44 M (8 FT) IN LENGTH AND SHALL CONSIST OF THE FOLLOWING MATERIALS. (A) GROUNDING ELECTRODES OF PIPE OR CONDUIT SHALL NOT BE SMALLER THAN METRIC DESIGNATOR 21 (TRADE SIZE 3/4) AND, WHERE OF STEEL, SHALL HAVE THE OUTER SURFACE GALVANIZED OR OTHERWISE

METAL-COATED FOR CORROSION PROTECTION. (B) ROD-TYPE GROUNDING ELECTRODES OF STAINLESS STEEL AND COPPER OR ZINC COATED STEEL SHALL BE AT LEAST 15.87 MM (5/8 IN.) IN DIAMETER, UNLESS LISTED.

(6) OTHER LISTED ELECTRODES. OTHER LISTED GROUNDING ELECTRODES SHALL BE PERMITTED. (7) PLATE ELECTRODES. EACH PLATE ELECTRODE SHALL EXPOSE NOT LESS THAN 0.186 M2 (2 FT2) OF SURFACE TO EXTERIOR SOIL. ELECTRODES OF BARE OR ELECTRICALLY CONDUCTIVE COATED IRON OR STEEL PLATES SHALL BE AT LEAST 6.4 MM (1/4 IN.) IN THICKNESS. SOLID, UNCOATED ELECTRODES OF NONFERROUS METAL SHALL BE AT LEAST 1.5 MM (0.06 IN.) IN THICKNESS.

(8) OTHER LOCAL METAL UNDERGROUND SYSTEMS OR STRUCTURES. OTHER LOCAL METAL UNDERGROUND SYSTEMS OR STRUCTURES SUCH AS PIPING SYSTEMS, UNDERGROUND TANKS, AND UNDERGROUND METAL WELL CASINGS THAT ARE NOT BONDED TO A METAL WATER PIPE.

(B) NOT PERMITTED FOR USE AS GROUNDING ELECTRODES THE FOLLOWING SYSTEMS AND MATERIALS SHALL NOT BE USED AS GROUNDING ELECTRODES:

(1) METAL UNDERGROUND GAS PIPING SYSTEMS (3) THE STRUCTURES AND STRUCTURAL REINFORCING STEEL

INFORMATIONAL NOTE: SEE 250.104(B) FOR BONDING REQUIREMENTS OF GAS PIPING.

DESCRIBED IN 680.26(B)(1) AND (B)(2)

PROVIDE CONDUIT FOR—

FUTURE SOLAR

ELECTRICAL PANEL——

ALL WIRING -

BY OTHERS

ALL CONDUITS BEYOND -

THIS POINT BY OTHERS

1. SIZE OF CONDUCTORS SHALL COMPLY w/CEC.A 2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL & METAL BUILDING FRAME (CEC). IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT

LEAST 10' INTO THE SOIL IF AVAILABLE (CEC).

ELECTRICAL BOND MODULES TOGETHER W/#8 CU @ MODLINE. BY MANUFACTURER. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS (CEC) AS REQUIRED. GROUNDING DETAIL PER DSA IR E-1.

INSPECTOR TO WITNESS GROUNDING TEST.

ELECTRICAL PANEL CONNECTION DETAIL - UNDERFLOOR OPTION

VOLTS: PANEL: L101 BUSS: MAIN: LOCATION FEED: MOUNTING: PHASE: 125 AME OBJECT IWATINO. WATTS WIRECKT|LEGCKT|WIRE WATTS I | NO|WAT OBJECT DESCRIPTION PER OF LCL A B BRKPOLESIZE NO AB NO SIZE POLEBRK A LCL OF PER DESCRIPTION TON HVAC 180 |RECEPTS 5 TON HVAC ECEPTS 900 INTERIOR LIGHTS ECEPT-GFCI 49 (1) INT LIGHT (1) FAN | 159 | 1 ECEPT-WP/GFCI 180 142 360 1 | 360 |QUAD RECEPT **LEG TOTALS** 8117 7492 1222 1440 **LEG TOTALS** LCL=3666.5+18271=21937.5 TOTAL WATTS=21937.5 LEG BALANCE = 2.2% TOTAL AMPS: 91.41

FIRE ALARM DEDICATED CIRCUIT SHALL BE IDENTIFIED WITH A RED MARKED DISCONNECT WITH LOCK-ON CAPABILITY (NFPA 72 10.6.5.2)

FIRE ALARM SYSTEM

THE ENFORCING AGENCY.

AND THE 2022 EDITION OF NFPA 72.

THE ENFORCING AGENCY.

GENERAL NOTES

ASCE 24-14, SECTION 7.2.

PROVIDED BY OTHERS.

FIXTURE NOTES:

TEE CONDUIT FOR SEPARATE

BONDED TO METAL BUILDING

— GROUND CLAMP BY OTHERS

COPPERCLAD GROUND ROD

OR OTHER ELECTRODE (BY

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

OTHERS) AS SPECIFIED IN

CONDUCTOR GROUND

GROUND CLAMP

5/8" DIA. X 8' LONG ■

THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE,

INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED

SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF

JUNCTION BOXES - GALVANIZED SHEET METAL, SQUARE OR RECTANGULAR WITH BLANK COVERS. LOCATE ONE BOX AT REAR OF BUILDING NEAR MAIN ELECTRICAL

COVERS - INSTALL GASKETED, METAL, WATERPROOF, FINISH COVERS AT EXTERIOR

THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN

ACCORDANCE WITH THE STATE FIRE MARSHALL'S REGULATIONS (CBC SEC. 907.2.3)

THE LOCATION OF AUTOMATIC DETECTORS, MANUAL STATIONS AND OTHER FIRE

ALARM-INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL

OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 dBA ABOVE

THE AVERAGE AMBIENT NOISE LEVELS OR 5dBA ABOVE THE MAXIMUM SOUND LEVEL

THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WHICH CAN NORMALLY BE

EXPECTED WHEN THE FACILITY, BUILDING, ROOM, OR AREA IS FUNCTIONING UNDER

FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING TWO

STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE

UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF

AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER. IF TESTING

SEE SHEET M1.0 FOR ALL

NOTES.

GROUNDING ELECTRODE CONDUCTOR SIZED PER CEC.

PROVIDE BONDS TO BLDG. STEEL & PANEL (#8 CU)

3. PANEL TO LISTED FOR USE AS SERVICE EQUIPMENT.

BRACING AND ANCHORAGE

ALL PANELS, SWITCHES, DISCONNECTS, BREAKERS, METERS, AND OTHER

PROVIDE SUFFICIENT LENGTH OF CONDUIT TO PERMIT DIFFERENTIAL

ELECTRICAL ELEMENTS SHALL BE PLACED ABOVE THE ELEVATION REQUIRED BY

WHERE FLEXIBLE CONDUIT IS PASSING BETWEEN BUILDING SEPARATION JOINTS,

DISPLACEMENTS BETWEEN BUILDINGS IN COMPLIANCE WITH ASCE 7 SECTION

ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE ENERGY SAVING LAMPS AND

LUMINARIES/BALLASTS SHALL BE CERTIFIED PER CALIFORNIA BUILDING CODE,

ELECTRICAL SERVICE DROP AND CONNECTIONS SUPPLIED BY OTHERS.

MANUFACTURER TO PROVIDE STUB-OUT FROM BACK OF ELECTRICAL PANEL THROUGH THE EXTERIOR WALL OR TO BELOW FLOOR FOR RECEIVING EITHER

UNDERGROUND OR OVERHEAD SERVICE & FITTING FOR GROUNDING CABLE.

ELECTRICAL PANEL BOARD SHALL BE RECESS MOUNTED INSIDE THE BUILDING, SIZED TO ACCOMMODATE ALL CONNECTED LOADS INCLUDING SPACES AS SHOWN. OVERCURRENT PROTECTIVE DEVICES IN THE PANEL BOARDS SHALL HAVE

ADEQUATE SHORT CIRCUIT INTERRUPTING CAPACITY. ALL BUSES INCLUDING BUS

KHS, INC. #KSH-2, CAROLITE, INC. #C-12 OR PLASKOLITE, INC. #PL21A. MINIMUM

SWITCH (SB) SHALL CONTROL THE TWO INNER LAMPS.

SHALL BE COPPER OR ALUMINUM.

LENS THICKNESS SHALL BE 0.125 INCHES.

FLUORESCENT LIGHT FIXTURE TYPE "A" SHALL BE CONTROLLED TO PROVIDE TWO

LEVELS OF LIGHTING. SWITCH (SA) SHALL CONTROL THE TWO OUTER LAMPS AND

13.6.9 & DSA IR PC-2 SECTION 1.18. ADDITIONAL CONDUIT & JOINT DETAIL SHALL BE

FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM

RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 15db OVER AMBIENT

NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY

NORMAL OPERATING OR WORKING CONDITIONS (NFPA 72, SEC. 18.4.1).

MARSHALL APPROVED AND LISTED (NFPA 72, SEC. 18.5.3).

ALARM EQUIPMENT AND DEVICES, AS SHOWN ON PLAN, ARE FOR REFERENCE ONLY

AND DO NOT CONSTITUTE SHOP DRAWINGS WHICH ARE REQUIRED FOR REVIEW AND

FOR EACH COMPONENT OF THE SYSTEM, HAVE BEEN APPROVED BY DSA.

UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A

PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTINGS

CALIFORNIA FIRE CODE AND THE CALIFORNIA BUILDING CODE.

PANEL @ +18" ABOVE FINISH FLOOR FOR FUTURE CONNECTION.

LOCATIONS. INSTALL FINISH COVERS AT INTERIOR LOCATIONS.

LOAD PANEL CALCULATIONS

GENERAL NOTES

PLEASE RECYCLE 6

DATE



HMC Architects

3595001000

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916 368 7990 / www.hmcarchitects.com

△ DESCRIPTION

KEYNOTES

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(LOW SEISMIC)

TRACY USD

FREILER ES

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RESTROOM OPTIONS

PLUMBING PLAN

& FIXTURE SCHEDULE

LS

AS NOTED

02/07/25

DRAWN BY:

ROJECT NO:

SHEET TITLE:

SHEET NUMBER:

CALE:

GENERAL NOTES

TRACY, CA 95377

ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE

PROJECT:

ART FREILER ES - TK CLASSROOM

SHEET NAME:

RESTROOM OPTIONS PLUMBING PLAN & FIXTURE **SCHEDULE**

DATE: 04/03/24 CLIENT PROJ NO: 359500100

(AGES 5-8) (AGES 9-12) (AGES 13-ADULT) WALL MOUNT WATER CLOSET KOHLER 'KINGSTON' MODEL K-4325 KOHLER 'KINGSTON' MODEL K-4325 FLUSH VALVE ZURN MODEL OR EQUAL. LOWEST AT 17" A.F.F. Z6000AV-HET - 1.28 G.P.F OR EQUAL. OR EQUAL. LOWEST AT 15" HIGHEST AT 17" A.F.F. TO TOP OF 19" HIGHEST TO TOP OF SEAT LOCATE AS SPECIFIED ON FLOOR PLANS. CANNOT USE CANNOT USE SEAT w/BEMIS 1955SSCT_TOILET w/BEMIS 1955SSCT TOILET SEAT MOUNT ACCESSIBLE FIXTURES PER SEAT OR EQUAL OR EQUAL SCHEDULE 10/P2.0. AMERICAN STANDARD 4019 828 AMERICAN STANDARD 4019 828 WC/2 FIXTURE MAX FLOW RATE OF 1.28 KOHLER 'WELLWORTH' KOHLER 'WELLWORTH' MODEL K-3998 OR EQUALW/BEMIS MODEL K-3999 w/BEMIS 1955SSCT OR EQUAL W/2L2050T-SEAT (2"THICK) G.P.F - LOCATE AS SPECIFIED ON FLOOR 1955SSCT OR EQUAL TOILET SEAT OR EQUAL w/BEMIS 1955SSCT PLANS. MOUNT ACCESSIBLE FIXTURES TOILET SET #3128.001 FOR BOWL OR EQUAL TOILET SEAT #4019.228 LEFT TANK PER SCHEDULE 10/P2.0 #4019.828 RIGHT TANK FLOOR MOUNT KOHLER 'PRIMARY' KOHLER 'PRIMARY' MODEL FLOOR MOUNT FLUSH VALVE TYPE FLUSH VALVE ZURN MODEL FLOOR MOUNT FLUSH VALVE FLUSH VALVE | MODEL K-96064 OR EQUAL. K-96064 OR EQUAL w/2L205T TYPE KOHLER 'WELLCOMME ULTRA' KOHLER 'HIGHCLIFF ULTRA' Z6000AV-HET - 1.28 G.P.F OR EQUAL. w/BEMIS 1955SSCT TOILET SEAT (2" THICK) TOILET SEAT OR MODEL K-96053 OR EQUAL W/BEMIS | MODEL K-96057 OR EQUAL W/BEMIS | LOCATE AS SPECIFIED ON FLOOR PLANS. 955SSCT OR EQUAL TOILET SEAT 1955SSCT OR EQUAL TOILET SEAT MOUNT ACCESSIBLE FIXTURES PER OR EQUAL SCHEDULE 10/P2.0. BOYS/GIRLS BOY/GIRL RESTROOM - ZURN KOHLER LAVATORY MODEL Z86100-XL-3M - COLD WATER ONLY -'KINGSTON' 787 Spreckels Ave., Manteca, CA 95336 SINGLE SPOUT MOUNT AS SPECIFIED IN MODEL K-2007-0 FLOOR PLANS. MOUNT ACCESSIBLE Phone (209) 825-1921 Fax (209) 825-7018 FIXTURES PER SCHEDULE 10/P2.0 - FLOW RATE OF 0.5 G.P.M. METER FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MIN. NTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT ADULT RESTROOM - ZURN ADULT___ KOHLER COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS) MODEL Z7440-XL-FC LAVATORY 'KINGSTON' AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETAR RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HERE HOT/COLD WATER - 4" ON CENTER HOLE. MODEL K-2005-0 MOUNT AS SPECIFIED IN FLOOR PLANS. DERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS.

MS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINA MOUNT ACCESSIBLE FIXTURES PER TH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICAT AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTE SCHEDULE 10/P2.0 - FLOW RATE OF 0.5 G.P.M. COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE URINAL WALL MOUNT TYPE FLUSH VALVE ZURN MODEL Z6003-AV INSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PÚRPOSE OF FURNIS (0.125gpf) OR EQUAL. MOUNT AS SPECIFIED ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, AI BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN K-5452-ET-0 IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0 OR EQUAL NSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO EET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION FLOW RATE = 0.125 gpf IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS. WALL MOUNT TYPE MOUNT AS SPECIFIED IN FLOOR PLANS. BOBRICK MODEL MOUNT ACCESSIBLE B165 18X30 OR MIRROR PER SCHEDULE 10/P2.0 36' x 40' STANDARD MODULAR WALL MOUNT TYPE 18 GA. 304 STAINLESS STEEL SATIN GRAB BARS MOEN MODEL FINISH MOUNT AS SPECIFIED IN FLOOR 8736 & 8748 PLANS AND PER SCHEDULE 10/P2.0. │ (1 1/4" CONCEALED SCREW (STRUCTURAL STRENGTH OF GRAB BARS 36"& 48") OR EQUAL 250# MIN.) **GRAB BARS** WATER HEATER RHEEM ELECTRIC WATER **AVAILABLE IN 6, 10, 20 AND 30** GALLON MODELS SITE SPECIFIC PROJECT NAME MODEL PROE20-1-RH-POU (MAX WATER HEATER WEIGHT) 240 VOLT SINGLE PHASE PER 6/M1.4 OR 1/P2.0 INSTANT-TEMP CHRONOMITE CHRONOMITE MODEL M20L/208 OR WATER HEATER INSTANT-TEMP WATER EQUAL SEE DETAIL 7/P2.0 (1) 36' x 40' BULIDINGS MODEL M20L/240 INSTANT SINGLE PHASE 104° CUSTODIAN SINK | FLORESTONE FLOOR SINK ZURN 843-MI-RC MOLDED MOP RECEPTORS OR EQUAL MODEL MSR-2424 W/ 3" DRAIN OR EQUAL UTILITY SINK WALL MOUNT TYPE CAITLIN CBK110CP FLORESTONE FM OR EQUAL OR EQUAL LOCATE AS SPECIFIED ON FLOOR PLANS. FLOOR DRAIN | SIOUIX CHIEF MODEL PROVIDE GRATE WITH MAX 1/2" OPENINGS, MODEL 822-2DNRV OR MEASURED IN BOTH DIRECTIONS CONCRETE FLOOR DRAIN FLOOR DRAIN ZURN MODEL P415-CC W/ (FLOOR DRAIN TO BE USED ON CONCRETE ONLY.) PROVIDE GRATE WITH MAX 1/2" STANDARD GRATE ZURN OPENINGS, MEASURED IN BOTH DIRECTIONS MANUFACTURER PROFESSIONAL 33160-002 OR EQUAL FAUCET - ZURN CLASSROOM SINK MODEL D12521 MODEL Z2871-B4-XL W/WRIST BLADES. LOCATE AS SPECIFIED ON FLOOR PLANS. 25"x21-1/4" SINGLE BOWL MOUNT ACCESSIBLE FIXTURES SINK OR EQUAL PER SCHEDULE 10/P2.0 FOUNTAIN MODEL EDFP217C WALL MOUNT WATER FOUNTAIN LOCATE AS SPECIFIED ON FLOOR PLANS. STANDARD HOSE BIBB HOSE BIBB ARROWHEAD -MODEL 353LKLF OR EQUAL ALL WATER FIXTURES MUST MEET REQUIREMENTS OF CAL-GREEN TITLE 24, PART 11, SECTION 5.303.3 "WATER CONSERVING PLUMBING FIXTURES & FITTINGS". 2. FOR OPTIONAL ACCESSIBLE FLOOR-MOUNT WATER CLOSET, SEE PLUMBING SCHEDULE MARK WC/3 (NOT SHOWN ON PLAN).

PLUMBING FIXTURE SCHEDULE

 $\begin{pmatrix} A \\ 1 \end{pmatrix}$ = PLUMBING FIXTURE I.D. - SEE SCHEDULE ABOVE

SYMBOLS LEGEND

PLANS SHALL MEET ENERGY CODE 120.3 FOR PIPE INSULATION. ALL WATER HEATERS

SHALL HAVE R7.7 ON HOT AND COLD LINES FOR THE FIRST 8 FEET FROM WATER

HEATER (TANK TYPE AND INSTANT). SECTION 609.12 REQUIRES HOT WATER PIPING

FROM THE WATER HEATER TO THE FIXTURE (CONTROL VALVE) BE INSULATED TO A

UP TO 2 INCHES (50 MM) IN DIAMETER. INSULATION WALL THICKNESS SHALL BE NOT

LESS THAN 2 INCHES (51 MM) FOR A PIPE OF 2 INCHES (50 MM) OR MORE IN DIAMETER.

PER PLUMBING CODE 609.12 UPDATE PLANS TO SHOW HOW THE HOT WATER PIPING IS

INSTANTANEOUS WATER HEATERS WITH AN INPUT GREATER THAN 6.8 KBTU/H OR 2 KW

(ALL INSTANTANEOUS ARE OVER 4KW) SHALL HAVE ISOLATION VALVES ON BOTH THE

HEATER, TO ASSIST IN THE FLUSHING OF THE HEAT EXCHANGER AND HELP PROLONG

INCOMING COLD WATER SUPPLY AND THE HOT WATER PIPE LEAVING THE WATER

INSULATED FROM THE WATER HEATER TO THE FIXTURE (CONTROL VALVE) TO A

MINIMUM WALL THICKNESS OF NOT LESS THAN THE DIAMETER OF THE PIPE.

THE LIFE OF THE WATER HEATERS PER ENERGY CODE 110.3(C).

MINIMUM WALL THICKNESS OF NOT LESS THAN THE DIAMETER OF THE PIPE FOR A PIPE

TYPE AT HIGH SCHOOL

REMARKS

TYPE AT KINDERGARTEN | TYPE AT ELEMENTARY | TYPE AT MIDDLE SCHOOL

MARK | FIXTURE¹

3. NOT ALL ITEMS LISTED MAY OCCUR IN THIS PROJECT.

SCALE: 1/4" = 1'-0" 7 CLASSROOM SINK PLAN

4. THERE SHOULD BE NO SHARP OR ABRASIVE SURFACES UNDER LAVS OR SINKS. 5. REFER TO DETAIL 10/P2.0 FOR SCHEDULE OF ACCESSIBLE HEIGHTS AT FIXTURES.

SCALE: 1/4" = 1'-0" 8

(AGES 3-4)

BOYS, GIRLS & STAFF R.R. PLAN

SINGLE TOILET PLAN FRONT WALL APPROACH - AGE RANGE: 13-ADULT

1 NOT USED

SCALE: 1/4" = 1'-0" 6 SINGLE TOILET PLAN SIDE WALL APPROACH - AGE RANGE: 13-ADULT

PLUMBING NOTE

GENERAL NOTES

MODULAR MFR. TO STUB THROUGH FLOOR ALL PLUMBING LINES. BUILDING PERIMETER POC'S SHOWN ARE FOR COORDINATION PURPOSES ONLY. ALL UNDER-FLOOR CONNECTIONS ARE BY SITE CONTRACTOR, U.O.N.

RESTROOM MODULE OCCURS ONLY AT END OF BUILDING. SINGLE RESTROOMS

DIMENSIONS ARE TO FACE OF FINISH (F.O.F.) UNLESS NOTED OTHERWISE (i.e. F.O.C., ٤) RESTROOM CONFIGURATION MAY VARY PER BUILDING CONFIGURATION.

MAY OCCUR IN ANY PART OF A BUILDING. 4. RESTROOM MODULE CANNOT STAND ALONE AND SHALL BE ASSEMBLED TOGETHER WITH AT LEAST ONE OTHER 12'x40' MODULE. 5. INTERIOR WALLS MAY OCCUR THROUGHOUT BUILDING. REFER TO SHEET S8.1

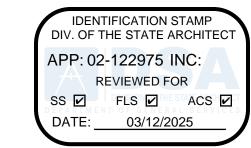
OR S9.1 FOR ATTACHMENTS. . REFER TO SCHEDULE 10/P2.0 FOR ACCESSIBLE HEIGHTS AT TOILETS. REFER TO DETAILS 1, 3, 4 & 5, SHEET A7.1 FOR TOILET PARTITION ANCHORAGE

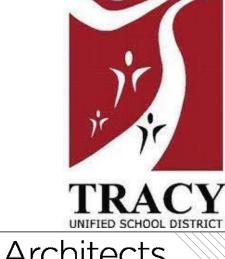
8. SEWER AND WATER STUB OUTS SHALL BE LOCATED WITHIN THE ALLOWABLE AREA AS SHOWN ON FLOOR PLAN AND CONNECTIONS SHALL BE EASILY ACCESSIBLE FOR FUTURE RELOCATION. STUB OUT HEIGHT SHALL BE COORDINATED BY THE MANUFACTURER. 9. PIPING MATERIAL

a. WATER: COPPER TYPE "L", 95/5 SOLDER. b. WASTE DRAIN AND VENT: ABS.

10. REFER TO SHEET M1.0 FOR TYPICAL BRACING AND ANCHORAGE NOTES.

P1.0-N





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3595001000

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DESCRIPTION

DATE

KEYNOTES

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24' x 40' THRU 120' x 40'

STANDARD MODULAR BUILDING

(LOW SEISMIC)

APPROVED.

DIV. OF THE STATE ARCHITEC

SS 🗹 🗹 S 🗹 ACS 🖳 CG 🗹

APP: 04-122050 PC

2022 CBC PRE-CHECK (PC) DOCUMENT

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GENERAL NOTES

ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE

PROJECT:

TRACY, CA 95377

ART FREILER ES - TK CLASSROOM

SHEET NAME: TITLE SHEET

DATE: 04/03/24 CLIENT PROJ NO: 3595001000

ADDENDUM "A"

American Modular Systems

24' x 40' THRU 120' x 40'



SITE SPECIFIC BASIC WIND SPEED =

SITE SPECIFIC WIND VALUES

WIND EXPOSURE = C

STANDARD BUILDING (LOW SEISMIC) **BUILDING DATA** EOR B (CLASSROOM USE FOR COLLEGE) OCCUPANCY V-B (CATEGORY I & II) TYPE OF CONSTRUCTION 2022 CALIFORNIA BUILDING CODE (CBC), VOLUME 1 & 2 - (PART 2, TITLE 24 CCR) BASED ON THE 2021 INTERNATIONAL BUILDING CODE V = 99 MPH BASIC WIND SPEED RISK CATEGORY EXPOSURE = C ASCE 7-16 SECTION28.5.3 INTERNAL PRESSURE COEFF., GC_{P,I} = ±0.18 2022 CALIFORNIA ELECTRICAL CODE (CEC) - (PART 3, TITLE 24, CCR) BASED ON THE 2020 NATIONAL ELECTRIC CODE SIMPLIFIED PROCEDURE ROOF ANGLE = 1.2 DEGREES 2022 CALIFORNIA MECHANICAL CODE (CMC) - (PART 4, TITLE 24, CCR) BASED ON THE 2021 IAPMO UNIFORM MECHANICAL CODE NOT CONSIDERED (SEE GENERAL NOTE #15 THIS SHEET) NOT CONSIDERED (SEE GENERAL NOTE #14 THIS SHEET) SNOW LOAD 2022 CALIFORNIA PLUMBING CODE (CPC) - (PART 5, TITLE 24, CCR) BASED ON THE 2021 IAPMO UNIFORM PLUMBING CODE ROOF LIVE LOAD (MAX PSF) 20 (REDUCIBLE) 2022 CALIFORNIA FIRE CODE (CFC) - (PART 9, TITLE 24, CCR) BASED ON THE 2021 INTERNATIONAL FIRE CODE □ 100 150 (NON-STORAGE) FLOOR LIVE LOAD (PSF) DESIGN DEAD LOADS (MAX PSF) 21.0 RF - 12.0 WD FLR - 48.0 CONC. FLR - 18.0 EXT WALLS FIRE SPRINKLER SYSTEM DESIGN WT .5 PSF INCLUDED IN ROOF DESIGN DEAD LOADS ABOVE (SEE GENERAL NOTES #5 - #7 THIS SHEET) 2022 EDITION ROOF SOLAR PANEL SYSTEM DESIGN WT 3.0 PSF INCLUDED IN ROOF DESIGN DEAD LOADS ABOVE (SEE GENERAL NOTE #9 THIS SHEET) 2019 EDITION 1500 (1/3 INCREASE IN SOIL BEARING CAPACITY NOT PERMITTED FOR WIND & SEISMIC LOAD 2021 EDITION ALLOWABLE SOIL PRESSURE (PSF) COMBINATIONS UNLESS USING ALTERNATE BASIC LOAD COMBINATIONS PER CBC 1605A.3.2) 2021 EDITION 2019 EDITION NO (SEE GENERAL NOTE #11 THIS SHEET FLOOD HAZARD AREA 2019 EDITION RAIN INTENSITY (IN/HR) 2022 EDITION BUILDING AREA (SQ. FT.) 960 MIN. THRU 4800 MAX 2019 EDITION 2018 EDITION (REFER TO EN.1 FOR ☐ A (1,16) ☐ B (2-5) C (6-13) D (14,15) CLIMATE ZONE GROUP REQUIREMENTS) MODULES LIGHT MODULAR STEEL MOMENT-FRAMES PER CBC SECION 2212A 2'x40' MODULES (2 MODULES MINIMUM) SUBSTITUTION OF PRODUCTS OR PROCESSES WHICH CHANGE THE STRUCTURAL SAFETY, FIRE & LIFE-SAFETY, OR ACCESSIBILTY OF THIS BUILDING SITE-SPECIFIC OPTIONS PC BUILDINGS LOCATED IN FIRE HAZARD SEVERITY ZONES PER WILDLAND URBAN INTERFACE FIRE AREAS (WUI) SHALL CONFORM TO CBC CHAPTER 1/8" PLYWOOD SHTG AUTOMATIC SPRINKLER SYSTEMS MIGHT BE REQUIRED FOR SITE SPECIFIC PROJECTS. OPTIONAL AUTOMATIC FIRE SPRINKLER DESIGNS ARE FLOOR DECK ■ BH-36 DECK 1½"x18 GA 3WxH DECK 3"x18 GA. INCLUDED IN THIS PC APPROVAL. (NOTE: SEE BUILDING DATA THIS SHEET FOR FIRE SPRINKLER SYSTEM WEIGHT INCLUDED IN BUILDING DESIGN) ☐ LIGHT-GAUGE STEEL FIRE SERVICE UNDERGROUND SHALL BE REVIEWED AS A SITE SPECIFIC APPLICATION. WATER SUPPLY SHALL BE DESIGNED TO MEET THE PC WALL STUDS **EXTERIOR WALL** |X| LAP SIDING STUCCO SYNTHETIC STUCCO PROVIDE A SITE SPECIFIC FIRE FLOW LETTER OF CERTIFICATION FROM AN APPROVED WATER PURVEYOR OR LOCAL FIRE AUTHORITY THIS PC PLAN SHALL NOT BE USED TO HOUSE "ROOMS OR AREAS WITH SPECIAL HAZARDS" SUCH AS LABORATORIES, VOCATIONAL SHOPS AND INTERIOR FLOOR MOUNTED X EXTERIOR WALL MOUNTED ROOF MOUNTED ☐ SPLIT SYSTEM (SEE TABLE IN M1.7A A SEPARATE NON-PC DSA APPLICATION NUMBER (SITE SPECIFIC JOB OR STOCKPILE) IS REQUIRED FOR DESIGN & ROOF-TOP INSTALLATION OF 3" x 22 GA. STANDING SEAM BUILT-UP SOLAR PANEL SYSTEMS, ITS ANCHORAGE & SUPPORT STRUCTURE ABOVE THE ROOF FRAMING. THE PC ROOF FRAMING IS DESIGNED FOR SOLAR ROOFING (INSTALLED OVER SHEATHING) PANELS TO BE INSTALLED FLAT ON THE ROOF. (NOTE: SEE BUILDING DATA THIS SHEET FOR SOLAR PANEL SYSTEM WEIGHT & WIND LOAD INCLUDED STANDING SEAM ROOFING ROOFING IN BUILDING DESIGN FOR ROOF-TOP.) SUBMITTALS OF ROOF-TOP SOLAR SYSTEM SHALL NOT BE SUBMITTED AS AN OVER-THE-COUNTER ROOF PITCH SINGLE PITCH DUAL PITCH . IF THE STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND SITE SPECIFIC PROJECT SUBMITTAL IS REQUIRED. IF THE SITE IS NOT IN A MAPPED LIQUEFACTION HAZARD ZONE, IT MAY BE PRESUMED THAT NO

☐ ½" SHEATHING - SEE SHEET S4.1 ROOF DIAPHRAGM STEEL STRAP CROSS BRACING - SEE SHEET S4.0 YES - LENGTH: 5'-0" FRONT OVERHANG ENCLOSED - 7'-0" MAX ELEVATION, A VALIDATION LETTER FROM THE GEOTHECNICAL ENGINEER SHALL BE PROVIDED, EVEN IF THE PRESUMPTIVE LOAD-BEARING VALUES REAR OVERHANG ENCLOSED - 7'-0" MAX YES - LENGTH: 2'-0" PER CBC SECTION 1806A.2 ARE USED. PROJECT SHALL BE EXEMPT FROM THE VALIDATION LETTER FOR PROJECTS LOCATED IN ZONE D (UNDEFINED SOLATUBE ON ROOF X NO YES (SEE GENERAL NOTES #5 - #7 THIS SHEET) FIRE SPRINKLERS PC BUILDING SHALL NOT BE PLACED OR BE RELOCATED IN AREAS HAVING A NOISE CONTOUR GREATER THAN OR EQUAL TO 65 CNEL, OR IN AREAS YES (SEE GENERAL NOTE #9 THIS SHEET) SOLAR PANELS OPTIONAL SIDE WALL YES (SEE SHEET S5.4A) YES (SEE GENERAL NOTE #10 THIS SHEET) MAPPED GEOHAZARD NO YES (AS DEFINED BY PC-6 SECTION 1.8) ZONE GEOHAZARD REPORT IF YES GEOTECHNICAL FIRM: ☐ YES REQUIRED IF BUILDING AREA > 4,000 SF REPORT IF YES GEOTECHNICAL FIRM: DEEPER FOOTINGS REQUIRED? YES - REQUIRED DEPTH: WIDER FOOTINGS REQUIRED? YES - REQUIRED WIDTH: DEFAULT CONCRETE MIX DESIGN FOR BELOW GRADE CONCRETE PER SHEET N1.0A. **CONCRETE MIX**

OPTIONAL SITE-SPECIFIC CONCRETE MIX DESIGN FOR BELOW GRADE CONCRETE PER SHEET N1.0A.

☐ THIS SHEET CONTAINS DESIGN OPTION BOXES AVAILABLE FOR SELECTION BASED ON SITE SPECIFIC REQUIREMENTS.

SEE SHEET TS2 FOR SHEET INDEX

SITE SPECIFIC SEISMIC VALUES SITE SPECIFIC $S_S = 1.18$ SITE SPECIFIC $S_1 = 0.411$ SITE CLASS = D (NOTE: SITE SHALL BE SITE CLASS "D" IF NO SOILS REPORT) PC BUILDING SEISMIC DESIGN CRITERIA R = 3.5 (OMF)RISK CATEGORY II $\Omega_{\odot} = 3.0$ $C_{d} = 3.0$ SEISMIC DESIGN CATEGORY: D ($S_1 < 0.75$) $E(S_1 > 0.75)$ MAXIMUM STORY DRIFT RATIO = 2.0% (I.E. MAX DRIFT = 0.020 x THE HEIGHT UNDER CONSIDERATION.) LATERAL FORCE RESISTING SYSTEM: LIGHT MODULAR STEEL MOMENT FRAMES PER 2212A COMPONENTS AND CLADDING DESIGNED FOR ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE ⋈ NO SOILS REPORT - ASSUMED SITE CLASS "D" DEFAULT S_{DS} = 1.62 MAX (SITE) $S_s = 2.026 \text{ MAX (SITE)}$ 1.13 (DESIGN)* 1.418 (DESIGN)* S_{D4} = 1.13 MAX (SITE & DESIGN) $S_1 = 1.001 \text{ MAX (SITE & DESIGN)} \quad F_v = 1.7$ $C_s = 0.324 \mid W (DESIGN)^*$ WITH SOILS REPORT - SITE CLASS "A", "B" OR "D" NOTE: GROUND MOTION HAZARD ANALYSIS IS NOT REQUIRED WHERE THE VALUE OF THE PARAMETERS S IS INCREASED BY 50% FOR ALL APPLICATIONS OF SM1 (ASCE 7-16 w/SUPPLEMENT #3, SECTION 11.4.8, EXCEPTION1) DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16 S_{DS} = 2.22 MAX (SITE) $S_s = 3.332 \text{ MAX (SITE)}$ 2.332 (DESIGN)* $C_S = 0.444$ | W (DESIGN)* $S_1 = 1.372 \text{ MAX (SITE & DESIGN)} \quad F_v = 1.7$ $S_{D4} = 1.55 \text{ MAX (SITE & DESIGN)}$ WITH SOILS REPORT - SITE CLASS "C" DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16 $S_s = 2.776 \text{ MAX (SITE)}$ 1.55 (DESIGN)* 1.943 (DESIGN)* $S_1 = 1.666 \text{ MAX (SITE & DESIGN)} \quad F_v = 1.4$ $S_{D4} = 1.55 \text{ MAX (SITE & DESIGN)}$ $C_S = 0.444$ | W (DESIGN)* WITH SOILS REPORT - SITE CLASS "E" NOTE: GROUND MOTION HAZARD ANALYSIS IS NOT REQUIRED WHERE THE EQUIVALENT LATERAL FORCE PROCEDURE IS USED FOR DESIGN AND THE VALUE OF C₂ IS DETERMINED BY EQ (12.8-2) FOR ALL VALUES OF T (ASCE 7-16 w/SUPPLEMENT #3, SECTION 11.4.8, EXCEPTION 2) SEE GENERAL NOTE #10. DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16 $S_{DS} = 1.55 (SITE)$ $S_s = 1.943 \text{ MAX (SITE)}$ 1.55 (DESIGN) $S_{D4} = 1.55 \text{ MAX (SITE & DESIGN)}$ $S_1 = 1.166 \text{ MAX (SITE & DESIGN)} \quad F_V = 2.0$ $C_S = 0.444$ W (DESIGN) WITH SOILS REPORT - SITE CLASS "F" NOTE: GROUND MOTION HAZARD ANALYSIS IS NOT REQUIRED WHERE THE EQUIVALENT LATERAL FORCE PROCEDURE IS USED FOR DESIGN AND THE VALUE OF C_s IS DETERMINED BY EQ (12.8-2) FOR ALL VALUES OF T (ASCE 7-16 w/SUPPLEMENT #3, SECTION 11.4.8, EXCEPTION 2) SEE GENERAL NOTE #10. SITE SPECIFIC S_{DS} = SITE SPECIFIC S_{D1} = $C_S = 0.444$ W (DESIGN) $S_{DS} = S_{D1} = 1.55 \text{ MAX}$ THE VALUE OF C_S AND E_V ARE PERMITTED TO BE CALCULATED USING A VALUE OF S_{DS} EQUAL TO 1.0, BUT NOT LESS THAN 70% OF S_{DS} AS DEFINED IN SECTION 11.4.5, PROVIDED THAT ALL OF THE FOLLOWING CRITERIA ARE MET: STRUCTURE DOES NOT HAVE IRREGULARITIES: STRUCTURE DOES NOT EXCEED FIVE (5) STORIES ABOVE THE LOWER OF THE BASE OR GRADE PLANE: . STRUCTURE HAS A FUNDAMENTAL PERIOD, T, THAT DOES NOT EXCEED 0.5 SECONDS; 4. STRUCTURE MEETS REQUIREMENTS FOR REDUNDANCY FACTOR, 0, TO BE TAKEN AS 1.0; 5. SITE SOIL PROPERTIES ARE NOT CLASSIFIED AS SITE CLASS 'E' OR 'F' 6. STRUCTURE IS CLASSIFIED AS RISK CATEGORY $_{
m II}$. 7. WHEN SITE SPECIFIC GROUND MOTION PROCEDURE IS REQUIRED PER 11.4.8, SITE-SPECIFIC PROJECTS ARE NOT ALLOWED FOR OTC SUBMITTAL PV SYSTEM REQUIREMENT TABLE **REQUIRED PV SYSTEM SIZE (kW)**

NONE NONE 2.2 5.2 5.4 3.2 5.4 2.2 7.0

| | | | | | | (| | | |
|------------|------------------------------------|---------|---------|---------|--------------|---------|---------|----------|----------|
| | | | | | BUILDING SIZ | ZE | | | |
| IMATE ZONE | 24'x40' | 36'x40' | 48'x40' | 60'x40' | 72'x40' | 84'x40' | 96'x40' | 108'x40' | 120'x40' |
| | APPROXIMATE CONDITIONED FLOOR AREA | | | | | | | | |
| | 960 | 1440 | 1920 | 2400 | 2880 | 3360 | 3840 | 4320 | 4800 |
| 1 & 16 | NONE | NONE | NONE | NONE | NONE | 3.9 | 0.2 | NONE | NONE |
| 2 - 5 | NONE | NONE | NONE | NONE | NONE | 1.0 | NONE | NONE | NONE |
| 6 - 13 | NOME | NONE | NONE | NONE | 3 .2 | NOME | DONE | DONE | DONE |
| 14 | NONE | NONE | 1.5 | 3.4 | 3.6 | 2.1 | 3.6 | 1.5 | 4.6 |
| | | | | | | | | | |

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APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023

WITH 2022 CALIFORNIA AMENDMENTS

WITH 2022 CALIFORNIA AMENDMENTS

WITH 2022 CALIFORNIA AMENDMENTS

WITH 2022 CALIFORNIA AMENDMENTS

PARTIAL LIST OF APPLICABLE STANDARDS

SPRINKLER DEMAND REQUIREMENTS.

NFPA 17

NFPA 17A

NFPA 20

NFPA 24

NFPA 72

NFPA 253

NFPA 2001

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC) - PART 1. TITLE 24. CCR)

2022 CALIFORNIA ENERGY CODE (CEC) - (PART 6, TITLE 24, CCR)

2022 CALIFORNIA GREEN BUILDING CODE (CGC) - (PART 11, TITLE 24, CCR)

STATIONARY PUMPS

PRIVATE FIRE MAINS

PC BUILDING APPROVED ONLY FOR OCCUPANCY "E" OR "B".

SPECIFICATIONS FOUND ON SHEET N2.0 OF THESE DRAWINGS.

GEOLOGICAL HAZARD ZONES IN ACCORDANCE WITH IR A-4, SECTION 3.2.1.

4. THIS PC BUILDING IS NOT DESIGNED FOR SNOW LOADS. 5. THIS PC BUILDING IS NOT DESIGNED FOR ICE LOADS.

19.1. WITHIN THE 65 CNEL NOISE CONTOUR OF AN AIRPORT.

2022 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)

AUTOMATIC SPRINKLER SYSTEM

STANDPIPE AND HOSE SYSTEMS

DRY CHEMICAL EXTINGUISHING SYSTEMS

WET CHEMICAL EXTINGUISHING SYSTEMS

SHALL BE SUBMITTED TO THE DSA AS AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT.

OTHER SUCH AREAS NOT CLASSIFIED AS GROUP H, LOCATED IN GROUP E OCCUPANCIES.

EXPOSED TO A NOISE LEVEL OF 65 dB L_{ea}-1-hr DURING ANY HOUR OF OPERATION WHEN NOISE

COMPLETED NRCA FORMS SHALL BE SUBMITTED TO THE PROJECT INSPECTOR AND THE DISTRICT.

19.3. WHERE EXPOSED TO NOISE LEVELS OF 65 DB-LEQ-1-HOUR DURING ANY HOUR OF OPERATION.

THIS PC WILL NOT BE PLACED ON ANY CAMPUS IN AND OF THE FOLLOWING LOCATIONS:

CONTOURS ARE NOT READILY AVAILABLE, AS SPECIFIED IN CALGREEN CODE, SECTION 5.507.4.1 & 5.507.4.1.1.

. BUILDING SHALL BE MANUFACTURED IN COMPLIANCE WITH CFC CHAPTER 33 FOR FIRE SAFETY DURING CONSTRUCTION.

19.2. WITHIN THE 65 CNEL OR LDN NOISE CONTOUR OF A FREEWAY, EXPRESSWAY, RAILROAD OR INDUSTRIAL SOURCE GUIDEWAY.

PC BUILDING EXITING IS BASED ON THE USE OR OCCUPANCY AND WILL BE REVIEWED AS SITE SPECIFIC

NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED)

GENERAL NOTES

(NOTE: SEE UL, STANDARD 1971 FOR "VISUAL DEVICES")

CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS

CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMMENDED)

LIQUEFACTION HAZARD EXISTS ON THAT SITE UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT IDENTIFIES SUCH HAZARD.

THIS PC BUILDING IS NOT DESIGNED FOR FLOOD HAZARD AREAS. WHEN A SITE-SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN

IF THE APPLICANT PROVIDES EVIDENCE FROM THE LOCAL JURISDICTION OR A QUALIFIED DESIGN PROFESSIONAL CONFIRMING THAT THE SITE IS NOT IN A FLOOD HAZARD ZONE. LOCATION OF ELECTRICAL ELEMENTS SHALL CONFORM TO THE AMERICAN SOCIETY OF CIVIL ENGINEERS.

ZONE X, A LETTER STAMPED AND SIGNED FROM A GEOTHECHNICAL ENGINEER IS NEEDED TO VALIDATE THAT THE ALLOWABLE SOIL VALUES

SPECIFIED IN THE PC DRAWINGS ARE STILL APPLICABLE, UNLESS THE BOTTOMS OF FOUNDATIONS ARE RAISED ABOVE THE DESIGN FLOOD

THE PLACEMENT OF THE PC BUILDING(S) ON OR ADJACENT TO SLOPES SHALL COMPLY WITH THE 'FOUNDATION CLEARANCES FROM SLOPES'

SUBMITTAL AND APPROVAL OF A GEOHAZARD REPORT BY THE CALIFORNIA GEOLOGICAL SURVEY (CGS) IS NOT REQUIRED FOR SINGLE-STORY

MODULAR BUILDINGS PROVIDED THAT THEY DO NOT EXCEED 4,000 SQUARE FEET IN PLAN AREA AND ARE NOT LOCATED WITHIN STATE OR LOCAL

AND PROCESS EQUIPMENT BEFORE PROJECT COMPLETION PER THE CALIFORNIA ENERGY CODE SECTION 10-103. ACCEPTANCE TESTS MUST BE

DEFICIENCIES CORRECTED UNTIL THE INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PERFORMED BY A CERTIFIED ACCEPTANCE TEST TECHNICIAN (ATT). THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED. AND

PLEASE RECYCLE 名

NOTE: FOR SITE-SPECIFIC PROJECT, INDICATE BUILDING SIZE AND PV SYSTEM SIZE. IF PV REQUIRED, SEE NOTE #9 UNDER GENERAL NOTES

AA

AS NOTED

MM/DD/YY

XXXX-22

DRAWN BY:

PROJECT NO:

SHEET TITLE:

SHEET NUMBER:

TITLE SHEET





HMC Architects

3595001000

2101 CAPITOL AVENUE, SUITE 100 SACRAMENTO, CA 95816 916 368 7990 / www.hmcarchitects.com

△ **DESCRIPTION**

DATE

KEYNOTES

GENERAL NOTES

TRACY, CA 95377

ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE

PROJECT:

ART FREILER ES - TK CLASSROOM

SHEET NAME: SHEET INDEX

DATE: 04/03/24 CLIENT PROJ NO: 3595001000

American Modular Systems

ARCHITECTURAL (CONTINUATION)

- STUCCO OPTION

1-HR FIRE RATED CONSTRUCTION DETAILS

(50 PSF LIVE LOAD +15 PSF PARTITION LOAD)

STANDARD ANCHORAGE FOUNDATION DETAILS

UPGRADED ANCHORAGE FOUNDATION DETAILS

w/BH-DECK OPTION (100 PSF MAX FLOOR L.L.)

w/3WxH-DECK OPTION (150 PSF MAX FLOOR L.L.)

ROOF FRAMING DETAILS - CROSS BRACING OPTION

MOMENT FRAME ELEVATIONS & DETAILS

OPTIONAL SIDE WALL CANOPY PLAN & DETAILS

| MOMENT FRAME CONNECTION DETAILS

WALL FRAMING DETAILS - WOOD STUDS

- METAL STUD OPTION

WALL FRAMING ELEVATIONS & SCHEDULES

WALL FRAMING DETAILS - METAL STUD OPTION

ROOF FRAMING DETAILS - ROOF SHEATHING OPTION

OPTIONAL PARAPET FRAMING ELEVATIONS & DETAILS

WALL FRAMING ELEVATIONS & SCHEDULES - WOOD STUDS

TYPICAL METAL STUD FRAMING DETAILS & PROPERTIES

CONCRETE FOUNDATION OPTIONAL UTILITY OPENINGS IN

FLOOR FRAMING PLAN & DETAILS FOR PLYWOOD FLOOR

LOOR FRAMING PLAN & DETAILS FOR CONCRETE FLOOR

LOOR FRAMING PLAN & DETAILS FOR CONCRETE FLOOR

ROOF FRAMING PLAN & DETAILS - CROSS BRACING OPTION

ROOF FRAMING PLAN & DETAILS - ROOF SHEATHING OPTION

CONCRETE FOUNDATION PLAN (50 PSF MAX FLOOR LIVE LOAD)

STRUCTURAL

SHEET TITLE

STEEL MEMBER PROPERTIES

CONCRETE FOUNDATION PLAN

CONCRETE FOUNDATION PLAN

CONCRETE FOUNDATION PLAN

(150 PSF MAX FLOOR LIVE LOAD)

CONCRETE FOUNDATION DETAILS

CONCRETE FOUNDATION DETAILS

(100 PSF MAX FLOOR LIVE LOAD)

SHEET NUMBER | SHEET TITLE

★ A4.1

☐ A5.2

☐ A5.3

⊠ A5.4

⊠ A7.1

★ A7.3

___ A8.0

SHEET NUMBER

☐ S1.2

☐ S1.3

⊠ S1.4

⊠ S1.5

⊠ S1.6A

⊠ S1.6B

X S1.7

X S3.0

S3.1

☐ S3.3

X S4.0

X S4.2

S4.3

☐ S5.4A

X S8.0

⊠ S8.1

S9.0

LAP SIDING | 🔀 A5.5

OPTIONS

INTERIOR ELEVATIONS

STUCCO

STUCCO

MISCELLANEOUS DETAILS

STEEL MEMBER

24' x 40' THRU 120' x 40' STANDARD BUILDING (LOW SEISMIC)



SHEET INDEX MS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGIN ITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICA **MECHANICAL PLUMBING** AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTE COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR OPTIONS SHEET NUMBER SHEET TITLE OPTIONS SHEET NUMBER SHEET TITLE **⋈** M1.0 INTERIOR ELEVATIONS - TYPICAL CLASSROOM TYPICAL REFLECTED CEILING PLAN RESTROOM OPTIONS, PLUMBING PLAN, & FIXTURE SCHEDULE INTERIOR ELEVATIONS - RESTROOM OPTIONS **⋈** M1.1A TYPICAL MECHANICAL PLAN OPTIONS ET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR FLOOR PLAN & DETAILS **又** P2.0 PLUMBING DETAILS & ACCESSIBLE DETAILS INTERIOR ELEVATIONS - RESTROOM OPTIONS - ALT. TOILET FLOOR PLANS TYPICAL MECHANICAL PLAN OPTIONS ☐ M1.1B **⊠** P3.0 PLUMBING ISOMETRIC DRAWINGS TYPICAL MECHANICAL PLAN OPTIONS ☐ M1.1C RE-CHECKED SET NAME FIRE SPRINKLERS RESTROOM REFLECTED CEILING PLANS & OPTIONS MECHANICAL & CEILING DETAILS OPTIONS SHEET NUMBER STANDARD MODULAR BUILDING MECHANICAL & CEILING DETAILS ☐ FS-1 OPTIONAL FIRE SPRINKLER TYP. NOTES & DETAILS MECHANICAL & CEILING DETAILS FLOOR PLAN & DETAILS DETAILS ☐ FS-2 OPTIONAL FIRE SPRINKLER TYPICAL PLANS MECHANICAL & CEILING DETAILS

STUCCO OPTION DETERIORATION DETAILS GREATER THAN 2160 SQ. FT. - STUCCO OPTION TYPICAL EXTERIOR ELEVATIONS LAP SIDING OPTION **⋈** M1.6 MECHANICAL ROOF DETAILS TYPICAL ARCHITECTURAL DETAILS MECHANICAL ROOF DETAILS CEILING NOTES & SPECIFICATIONS **⊠** M1.7 DETERIORATION DETAILS GREATER THAN 2160 SQ. FT. MISCELLANEOUS LAP SIDING OPTION **X** M1.7A MECHANICAL NOTES & SCHEDULES YPICAL EXTERIOR ELEVATIONS **ELECTRICAL** SYNTHETIC STUCCO OPTION YPICAL ARCHITECTURAL DETAILS OPTIONS SHEET NUMBER - SYNTHETIC STUCCO OPTION DETERIORATION DETAILS GREATER THAN 2160 SQ. FT. TYPICAL ELECTRICAL PLAN SYNTHETIC STUCCO OPTION FLOOR PLANS & DETAILS RESTROOM OPTIONS ELECTRICAL PLANS ☐ E1.1 ARCHITECTURAL EXTERIOR FINISH OPTIONS DETAILS **⊠** E1.2 ELECTRICAL NOTES & DETAILS MISCELLANEOUS ARCHITECTURAL DETAILS TYPICAL LONGITUDINAL AND TRANSVERSE FRAME SECTIONS

APPROVED DIV. OF THE STATE ARCHITEC APP: 04-122050 PC SS D FLS D ACS Q CG D

SITE SPECIFIC PROJECT NAME

787 Spreckels Ave., Manteca, CA 95336 Phone (209) 825-1921 Fax (209) 825-7018 www.americanmodular.com

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PPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITT SENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTIO

24' x 40' THRU 120' x 40'

(LOW SEISMIC)

2022 CBC PRE-CHECK (PC) DOCUMENT MANUFACTURER PROFESSIONAL OF RECORD ON PC

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AS NOTED MM/DD/YY PROJECT NO: XXXX-22 SHEET TITLE:

SHEET INDEX

SHEET NUMBER:

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ARCHITECTURAL

TITLE SHEET

SHEET INDEX

FORM DSA-103

FORM DSA-103

GENERAL NOTES & SPECIFICATIONS

GENERAL NOTES & SPECIFICATIONS

ACCESSIBILITY STANDARDS AND DETAILS

MULTIPLE FLOOR PLAN CONFIGURATIONS

MULTIPLE FLOOR PLAN CONFIGURATIONS

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☑ EN.14-EN.15 ENERGY CALCULATIONS - 36'x40' BUILDING - GROUP C

▼ EN.1A-EN.1B | ENERGY CALCULATIONS - SUMMATION SHEETS

BELOW GRADE CONCRETE MIX DESIGN REQUIREMENTS

TYPICAL SCHEDULES: DOORS, WINDOWS & FINISHES

ENERGY CALCULATIONS - 24'x40' BUILDING - GROUP C

SHEET NUMBER | SHEET TITLE

🔀 TS

X TS-2

⋈ N1.0A

⊠ N3.0

⋈ N4.0

N5.1

COVER SHEET

INSPECTION FORM

GENERAL NOTES

SPECIFICATIONS

ENERGY SHEETS

CALCULATIONS

TOTAL OF 52 SHEETS

PLEASE RECYCLE 🖧

TYPICAL ROOF PLAN - SINGLE-PLY OR BUILT-UP (WITH PARAPETS) TYPICAL ROOF DETAILS - SINGLE-PLY OR BUILT-UP ROOFING

HMC Architects

3595001000

△ DESCRIPTION

2022 CBC PRE-CHECK (PC) DOCUMENT MANUFACTURER PROFESSIONAL OF RECORD ON PC

APPROVED

IV. OF THE STATE ARCHITEC

SS V FLS V ACS X CG V

APP: 04-122050 PC

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24' x 40' THRU 120' x 40'

STANDARD MODULAR BUILDING

(LOW SEISMIC)

PRE-CHECKED SET NAME

SITE SPECIFIC PROJECT NAME

FFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION

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DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Date Created:

GE (Geotechnical Engineer) – Indicates that the special inspection shall be

LOR (Laboratory of Record) – Indicates that the test or special inspection shall

be performed by a testing laboratory accepted in the DSA Laboratory Evaluation

PI (Project Inspector) – Indicates that the special inspection may be performed

SI (Special Inspection) - Indicates that the special inspection shall be performed

Table 1705 A.2.1 Item 3a-3c. 2202A.1; AISI S100-20 Section A3.1 &

Not applicable to cold-formed steel light-frame construction, except

1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for

structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed

Table 1705A.2.1 Items 5a.1-4; AISC 360-16 (and AISC 341-16 as

1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-16 (and

LOR 1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS

steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.

performed by a registered geotechnical engineer or his or her authorized

and Acceptance (LEA) Program. See CAC Section 4-335.

by an appropriately qualified/approved special inspector.

inspector when specifically approved by DSA.

Performed By Code References and Notes

Type Performed By Code References and Note:

Type / Performed By Code References and Notes

Type Performed By Code References and N

applicable); DSA IR 17-3.

AISC 34 1-16 as applicable); DSA IR 17-3

D1.1, AWS D1.8 DSA IR 17-2.

Verify the torque installation torque

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project.

Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, & Special Inspector. The actual complete test and inspection program must be performed as detailed

on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special

inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but

not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphradms, cold-formed steel

framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 ∠BC).

**NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

Periodic

Periodic

Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form

School Name:

Increment Number:

Application Number:

DSA File Number:

KEY TO COLUMNS

1. TYPE

Test - Indicates that a test is required

Test or Special Inspection

b. Test unidentified materials

Test or Special Inspection

☑ b. Magnetic Particle

S/A11. Other Stee

b. Hollow bolts

S/A6. NONDESTRUCTIVE TESTING

S/A3. WELDING:

and the WPS.

deck welds.

a. Verify identification of all materials and:

Material sizes, types and grades comply with

d. Verify and document steel fabrication per DSA-

a. Verify weld filler material identification markings per

c. Verify WPS, welder qualifications and equipment.

S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3

a. Shop Welding - Inspect welding of cold-formed steel

☑ b. Shop Welding - Inspect welding of steel floor deck

welds Periodic/Special Inspector

AWS designation listed on the DSA-approved documents

☑ b. Verify weld filler material manufacturer's certificate of Periodic

a. Inspect groove welds, multi-pass fillet welds, single pass | Continuous |

1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291

STOCKPILE CONCRETE FLOOR

Continuous – Indicates that a continuous special inspec

Periodic - Indicates that a periodic special inspection is required

S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMI

Mill certificates indicate material properties that comply

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

DRAWN BY: AA AS NOTED

MM/DD/YY PROJECT NO: XXXX-22 SHEET TITLE:

> **FORM** DSA-103

GENERAL NOTES

SHEET NUMBER:

DATE

2101 CAPITOL AVENUE, SUITE 100 SACRAMENTO, CA 95816 916 368 7990 / www.hmcarchitects.com

KEYNOTES

ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE **TRACY. CA 95377**

PROJECT: ART FREILER ES - TK CLASSROOM

SHEET NAME: FORM DSA-103

CLIENT PROJ NO: 359500100 DATE: 04/03/24

ADDENDUM "A"

AUTHORIZED USE: ALL INFORMATION INCLUDED ON THIS SHEET (FORM DSA-103) IS FOR THE SOLE PURPOSE OF RECEIVING DSA APPROVAL AND ISSUANCE OF A PC NUMBER. NO OTHER USE IS AUTHORIZED WITHOUT THE EXPRESS WRITTEN CONSENT OF AMERICAN MODULAR SYSTEMS, INC.

| | STOCKPILE | CONSTRUCTION OF PERMANENT MODULAR OR RELOCATABLE BUILDING | RELOCATION OF CERTIFIED RELOCATABLE BUILDING |
|--|--|---|---|
| INSPECTOR CLASS (minimum requirements) | RBIP or Class 1 | In Plant: RBIP or Class 1 Site: Class 4 for Single Story Site: Class 2 for Two-Story | Class 4 for Single Story Class 2 for Two-Story |
| Selection of the Project Inspector and Testing/Special Inspection Agency | by the Owner (not manufacturer) and approved by DSA, A/E of Record and Structural Engineer | by the School District and approved by DSA and A/E responsible for in-plant construction observation. | by the Owner (not manufacturer and approved by DSA, A/E of Record and Structural Engineer |
| Cost of the Project Inspector (CAC, Section 4-333(b)) and Testing/Special Inspection Agency (CAC, Section 4-335(b)) | by the Owner (not manufacturer) | by the School District | |

NOTES: NOTE 1: REINFORCING STEEL TESTS MAY BE WAIVED FOR ONE-STORY BUILDINGS, PER CBC, SECTION 1910A.2 (1909.2.4*).

NOTE 2: REQUIRED ONLY WHERE THE DETAILS OF THE PC SPECIFY THE USE OF THIS TYPE OF ANCHOR. NOTE 3: REQUIRED ONLY WHERE THE DETAILS OF THE PC SPECIFY THIS WELDING. NOTE 4: THESE TESTS AND INSPECTIONS ARE APPLICABLE ONLY WHEN A GEOTECHNICAL REPORT IS REQUIRED.

NOTE 5: WOOD FOUNDATIONS ARE NOT PERMITTED FOR PERMANENT MODULAR BUILDINGS PER CBC SECTION 1807A.1.4. *INDICATES ALTERNATIVE CBC SECTIONS THAT COMMUNITY COLLEGES MAY USE PER CBC SECTION 1.9.2.2.

HOLLO-BOLT MANUFACTURER'S INSPECTION PROCEDURES

PERIODIC SPECIAL INSPECTION REQUIREMENTS

TO VERIFY CORRECT INSTALLATION INCLUDING USE IN SEISMIC OR WIND LOADING APPLICATIONS IN ACCORDANCE WITH THE 2022 CALIFORNIA BUILDING CODE SECTIONS 1705A.1, 1705A.2, AND 1704A.3 PLEASE REFER TO THE FOLLOWING INSTRUCTIONS.

- A. INSPECTION PRIOR TO INSTALLATION 1. ENSURE THAT THERE ARE NO GAPS BETWEEN THE CONNECTING STEELWORK.
- 2. ENSURE THAT THE HOLES ARE ALIGNED AND THAT THE HOLES HAVE THE CORRECT DIAMETER AND SPACING FOR THE CHOSEN
- 3. THE HOLES MUST BE STANDARD DIAMETER HOLES CONFORMING TO AISC 360 WHERE THE HOLE DIAMETER MUST BE NO GREATER THAN THE SLEEVE OUTER DIAMETER +1/16". 4. BURRS IN THE HOLES MUST BE REMOVED BEFORE INSERTION OF THE HOLLO-BOLT.
- B. INSPECTION DURING INSTALLATION
 - ENSURE THAT THE HOLLO-BOLTS ARE INSTALLED AS PER LINDAPTER'S INSTALLATION INSTRUCTION SHEET ENSURE THAT THE TORQUE WRENCH(S) HAS A CURRENT VALID CALIBRATION CERTIFICATE AND IS CALIBRATED ON REGULAR BASIS.
- 3. IF USING AIR POWERED WRENCHES TO TIGHTEN THE HOLLO-BOLT, CHECK THAT THE WRENCH IS SET CORRECTLY TO AVOID OVERTIGHTING. THE FINAL TORQUE MUST BE CHECKED WITH A CALIBRATED TORQUE WRENCH.
- 4. IF AFTER TIGHTENING THERE IS A GAP EVIDENT BETWEEN THE HOLLO-BOLT AND THE CONTACT SURFACE OF THE CONNECTING ELEMENT THIS MAY INDICATE INCORRECT INSTALLATION. REMOVE AND DISCARD THE HOLLO-BOLT, REALIGN THE CONNECTING STEELWORK AND INSTALL A NEW HOLLO-BOLT AS PER
- 5. IF AFTER TIGHTENING THE BOLT HEAD CONTINUES TO TURN THIS MAY BE AN INDICATION OF OVER TIGHTENING, OR IF USING A STAINLESS STEEL HOLLO-BOLT THIS MAY BE DUE TO GALLING*, REMOVE AND DISCARD THE HOLLO-BOLT AND INSTALL A NEW HOLLO-BOLT AS PER LINDAPTER'S INSTALLATION INSTRUCTION SHEET.
- * 'GALLING' IS A TERM USED WHEN TWO SURFACES SEIZE UP AS A RESULT OF COLD WELDING AND IS COMMON WHEN TIGHTENING STAINLESS STEEL BOLTS.
- C. INSPECTION AFTER INSTALLATION ENSURE THAT THERE ARE NO GAPS BETWEEN THE CONNECTING STEELWORK.
- 2. ENSURE THAT THERE ARE NO GAPS BETWEEN THE HOLLO-BOLT AND THE CONTACT SURFACE OF THE CONNECTING ELEMENT. 3. CHECK THE TIGHTENING TORQUE OF BETWEEN 5-10% OF THE INSTALLED HOLLO-BOLTS CHOSEN AT RANDOM USING A CALIBRATED TORQUE WRENCH.

- A. CONTINUOUS BATCH PLANT INSPECTION MAY BE WAIVED IF THE CONCRETE PLANT COMPLIES FULLY WITH ASTM C94, SECTION 9 AND 10, AND HAS A CURRENT CERTIFICATION FROM THE "NATIONAL READY MIXED CONCRETE ASSOCIATION" OR ANOTHER AGENCY ACCEPTABLE TO THE ENFORCEMENT AGENCY.
- a) AN APPROVED AGENCY OR CERTIFIED TECHNICIAN OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCH AT START OF WORK DAY TO VERIFY MATERIALS
- AND PROPORTIONS CONFORM TO THE APPROVED MIX DESIGN.
- c) BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS, SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD PRIOR TO CONCRETE PLACEMENT.
- 2. ELIMINATION OF CONTINUOUS BATCH PLANT INSPECTION (PER CBC 1705A3.3.2):
- a) SITE FLATWORK,
- RETAINING WALLS, c) CONTROLLED LOW-STRENGTH MATERIAL BACKFILL. OR

- 4. REQUIRED ONLY WHERE DETAILS SPECIFY THE USE OF THESE ATTACHMENTS. NOT USED
- 6. THE APPENDIX TO DSA-103 SHALL BE COMPLETED BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE.
- 8. EXAMPLE DSA-103 FORMS WILL BE USED AS GUIDE TO DEVELOP A SITE-SPECIFIC DSA-103 FORM FOR THE SITE-SPECIFIC PROJECT. EXAMPLE FORMS ON THE PC DRAWINGS WILL BE CROSSED OUT WHEN SITE-SPECIFIC DSA-103 FORMS ARE PROVIDED DURING OTC REVIEW.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC Application Number DSA File Number: Increment Number: 2023-11-01 14:38:17 IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, an chorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC). **KEY TO COLUMNS** 1. TYPE Continuous – Indicates that a continuous special inspection is Periodic – Indicates that a periodic special inspection is required inspector when specifically approved by DSA. Test – Indicates that a test is required S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSI Type Performed By Code References and Notes Test or Special Inspection a. Verify identification of all materials and: • Mill certificates indicate material properties that comply • Material sizes, types and grades comply with ☑ b. Test unidentified materials ☑ c. Examine seam welds of HSS shapes approved construction documents. for trusses (1705A.2.4). a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents ☑ b. Verify weld filler material manufacturer's certificate of S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3) Test or Special Inspection Performed By Code References and Notes a. Inspect groove welds, multi-pass fillet welds, single pass Co fillet welds > 5/16", plug and slot welds. applicable); DSA IR 17-3. b. Inspect single-pass fillet welds ≤ 5/16", floor and roof AISC 341-16 as applicable); DSA IR 17-3. Type Performed By Code References and Notes Test or Special Inspection S/A6. NONDESTRUCTIVE TESTING Test or Special Inspection Type Performed By Code References and Notes ☑ b. Magnetic Particle LOR 01\1, AWS D1.8; DSA IR 17-2. S/A11. Other Steel Type Performed By Code References and Notes Test or Special Inspection a. Shop Welding - Inspect welding of cold-form Periodic/Special Inspector b. Hollow bolts Verify the torque installation torque 1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291 ^{2.} DSA 292

☐ STOCKPILE WOOD FLOOR

**NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code. GE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized LOR (Laboratory of Record) – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335. PI (Project Inspector) – Indicates that the special inspection may be performed SI (Special Inspection) – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector. Table 1705A.2.1 Item 3a-3c. 2202A.1; AISI S100-20 Section A3.1 & A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site. 1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 fo structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3. 1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-16 (and 1 05A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS

¬ Shop Welding Inspection: Laboratory∦erified Report Form DSA 291, or, for independently contracting ⅓l, Special Inspection Verified Report Form

FOOTNOTES

1. WAIVER OF CONTINUOUS BATCH PLANT INSPECTION (PER CBC 1705A3.3.1 AND DSA IR 17-13)

THE CERTIFICATION SHALL INDICATE THAT THE PLANT HAS AUTOMATIC BATCHING AND RECORDING CAPABILITIES. B. IF THE BATCH PLANT INSPECTION IS WAIVED, THE FOLLOWING REQUIREMENTS a) THRU c) SHALL BE MET:

b) THE LICENSED WEIGHMASTER SHALL POSITIVELY IDENTIFY QUANTITY OF MATERIALS AND CERTIFY EACH LOAD BY A BATCH TICKET.

A. BATCH PLANT INSPECTION IS NOT REQUIRED FOR ANY OF THE FOLLOWING CONDITIONS:

b) UNENCLOSED SITE STRUCTURES, INCLUDING BUT NOT LIMITED TO LUNCH OR CAR SHELTERS, BLEACHERS, SOLAR STRUCTURES, FLAG OR LIGHT POLES, OR

d) SINGLE STORY RELOCATABLE BUILDINGS LESS THAN 2,160 SQUARE FEET. 3. PER CBC 1910A.2, TESTING MAY BE WAIVED FOR ONE-STORY BUILDINGS IF A CERTIFIED MILL TEST REPORT IS PROVIDED.

7. ULTRASONIC TESTING PER DSA IR-PC2 SECTION 10.1 SHALL BE PERFORMED ON 100% OF CJP GROOVE WELDS WHEN THE COLUMNS PER SCHEDULE ON SHEET S5.1 HAVE A THICKNESS OF 5/6," OR GREATER. MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25% OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS. NONDESTRUCTIVE TESTING OF COMPLETE JOINT PENETRATION WELDS AT GRAVITY CONNECTIONS SHALL COMPLY WITH AISC 360, CHAPTER N, PER 2022 CBC 1705A.2.1.

9. QUALIFIED REPRESENTATIVE OF LABORATORY OF RECORD OR APPROVED SPECIAL INSPECTOR SHALL VERIFY ALL STEEL IDENTIFICATION PER 2022 CBC 2202A.1 AND DSA IR 17-3 STRUCTURAL WELDING INSPECTION.

72' x 40' BUILDING FLOOR PLAN

PLEASE RECYCLE

DATE

| it A |
|-------------------------|
| |
| |
| TRACY |
| UNIFIED SCHOOL DISTRICT |

HMC Architects

3595001000

2101 CAPITOL AVENUE, SUITE 100 SACRAMENTO, CA 95816

916 368 7990 / www.hmcarchitects.com

△ **DESCRIPTION**

KEYNOTES

AA

AS NOTED MM/DD/YY PROJECT NO: XXXX-22

SHEET NAME: **FORM** FORM DSA-103 DSA-103 DATE: 04/03/24

PLEASE RECYCLE

GENERAL NOTES FACILITY: ART FREILER ELEMENTARY SCHOOL **2421 W LOWELL AVE TRACY. CA 95377** PROJECT: ART FREILER ES - TK CLASSROOM CLIENT PROJ NO: 359500100

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC Application Number: Increment Number: DSA File Number: Date Created: 2023-11-01 15:07:53 2022 CBC IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engine of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed \on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special Inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC). ** NOTE: Undefined section and table references found in this document are from the CBC, or California Building Co ϕ KEY TO COLUMNS 2. PERFORMED BY GE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his of her authorized Continuous – Indicates that a continuous special inspection is LOR (Laboratory of Record) – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-835. Periodic – Indicates that a periodic special inspection is required PI (Project Inspector) – Indicates that the special inspection may be performed inspector when specifically approved by DSA Test – Indicates that a test is required SI (Special Inspection) – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector. Geotechnical Reports: Project does NOT have and does NOT require a geotechnical report S2. SOIL COMPACTION AND A Test or Special Inspection Type | Performed By | Code References and Notes ☑ a. Verify use of proper materials, densities and inspect lift | Continuous | * Under the supervision of a geotechnical engineer or LOR's engineering manager/Refer to specific items identified in the thicknesses, placement and compaction during Appendix listing exemptions for limitations. placement of fill. ☑ b. Compaction testing. * Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the C1. CAST-IN-PLACE CONCRETE Test or Special Inspection Type | Performed By | Code References and Notes Table 170 A.3 Item 5, 1910A.1. a. Verify use of required design mix. b. Identifiy, sample, and test reinforcing steel. 1910A. **2**; ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See c. During concrete placement, fabricate specimens Table 1705A.3 Item 6; ACI 318-19 Sections 26.5 & 26.12. for strength tests, perform slump and air content tests, and determine the temperature of the d. Test concrete (f'c). 1905A.1.17; ACI 318-19 Section 26.12. ☑ e. Batch plant inspection: Continuous Default of 'Continuous' per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to 'Periodic' subject to requirement in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.) S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES a. Verify identification of all materials and: Table 1705A.2.1 Item 3a-3c. 2202A.1; AISI S100-20 Section A3.1 & Mill certificates indicate material properties that comply A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site. with requirements. Material sizes, types and grades comply with requirements. LOR ☑ b. Test unidentified materials c. Examine seam welds of HSS shapes d. Verify and document steel fabrication per DSA-Not applicable to cold-formed steel light-frame construction, except approved construction documents. for trusses (1705A.2.4). S/A3. WELDING: Code References and Notes Test or Special Inspection 1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for ☑ a. Verify weld filler material identification markings per structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed AWS designation listed on the DSA-approved documents steel; AWS D1.4 for reinforcing steel; DSA IR 17-3. and the WPS. ☑ b. Verify weld filler material manufacturer's certificate of / c. Verify WPS, welder qualifications and equipment. S/A4. SHOP WELDING (IN ADDITION TO SECTION \$/A3): Test or Special Inspection Type | Performed By | Code References and Notes a. Inspect groove welds, multi-pass fillet welds, single pass | Continuous Table 1705A.2.1 Items 5a.1-4; AISC 360-16 (and AISC 341-16 as fillet welds > 5/16", plug and slot welds. 1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3. deck welds. Test or Special Inspection Type | Performed By | Code References and Notes S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3): Test or Special Inspection Type | Performed By | Code References and Notes Table 1705A.2.1 Item 5a.5; AISC 360-16 (AISC 341-16 as applicable); b. Inspect single-pass fillet welds ≤ 3/1 Type | Performed By | Code References and Notes Test or Special Inspection S/A6. NONDESTRUCTIVE TES/TI Test or Special Inspection Type | Performed By | Code References and Notes ☑ b. Magnetic Particle LOR | 1705A.2.1, 1705A.2.5; AISC\\341-16 J6.2, AISC 360-16 N5.5; AWS | D1.1, AWS D1.8; DSA IR 17-2. S/A11. Other Steel Type | Performed By | Code References and Notes Test or Special Inspection ☑ a. Shop Welding/Inspect welding of cold-formed steel Periodic Periodic/Special Inspector ☑ b. Shop Welding - Inspect welding of steel floor deck Periodic welds Periodic/Special Inspector , 🔽 | c. Hollow b/b/ Verify the torque installation torque 1. Structural/Testing and Inspection: Laboratory Verified Report Form DSA 291 2. Concrete Batch Plant Inspection: Laboratory Verified Report Form DSA 291 Show Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form Held Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC Application Number: DSA **T**ile Number: Increment Number: Date Created: 2023-11-01 15:11:51 2022 CBC MPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to∕special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC). **NOTE\Undefined section and table references found in this document are from the CBC, or California Building Code. **KEY TO COLUMNS** 1. TYPE 2. PERFORMED BY GE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized Continuous – Indicates that a continuous special inspection is LOR (Laboratory of Record) - Indicates that the test or special inspection sha be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335. Periodic – Indicates that a periodic special inspection is required PI (Project Inspector) – Indicates that the special inspection may be performed inspector when specifically approved by DSA. Test – Indicates that a test is required SI (Special Inspection) – Indicates that the special inspection shalf be performed by an appropriately qualified/approved special inspector. Geotechnical Reports: Project does NOT have and does NOT require a geotechnical report S2. SOIL COMPACTION AND FILL: Test or Special Inspection Type | Performed By | Code References and Notes ☑ a. Verify use of proper materials, densities and inspect lift Continuous * Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the thicknesses, placement and compaction during Appendix listing exemptions for limitation placement of fill. ☑ b. Compaction testing. * Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific tems identified in the Appendix listing exemptions for limitations. C1. CAST-IN-PLACE CONCRETE Type | Performed By | Code References and Notes Test or Special Inspection Table 1705A.3 Item 5, 1910A. a. Verify use of required design mix. LOR 1910A.2; ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See b. Identifiy, sample, and test reinforcing steel. Appendix (end of this form) for exemptions.) LOR Table 1705A.3 Item 6; ACI 318-19 Sections 26.5 & 26.12. c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the ☑ d. Test concrete (fc). 1905A.1.17; ACI 378-19 Section 26.12. e. Batch plant inspection: Continuous Default of 'Contynuous' per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to 'Periodic' subject to requirements in Section 1795A.3.3.1, or eliminated per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.) S/A3. WELDING: Type Performed By Code References and Notes Test or Special Inspection ☑ a. Verify weld filler material identification markings per 170**5** A.2.5, Table 1705 A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for Periodic stryctural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed AWS designation listed on the DSA-approved documents and the WPS. steel; AWS D1.4 for reinforcing steel; DSA IR 17-3. ☑ b. Verify weld filler material manufacturer's certificate of ☑ c. Verify WPS, welder qualifications and equipment. Periodic Test or Special Inspection Type S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3): Type | Performed By | Code References and Notes Test or Special Inspection Table 1705A. 2.1 Item 5a.5; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3. 1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 29 2. Concrete Batch Plant Inspection: Laboratory Verified Report Form DSA 291 Field Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA

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American Modular Systems

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Phone (209) 825-1921 Fax (209) 825-7018

www.americanmodular.com

APPROVED

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMEN

2022 CBC PRE-CHECK (PC) DOCUMENT MANUFACTURER PROFESSIONAL OF RECORD ON PC

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

SHEET TITLE:

SHEET NUMBER:

ADDENDUM "A"

CONSTRUCTION OF PERMANENT MODULAR RELOCATABLE BUILDING - WOOD FLOOR / CONCRETE FOUNDATION

Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form

4. Field Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

School District:

Date Created:

2. PERFORMED BY

by a project

Type Performed By Code References and Notes

Type Performed By Code References and Notes

Type Performed By

S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES

GE (Geotechnical Engineer) – Indicates that the special/inspection shall be

LOR (Laboratory of Record) – Indicates that the test or special inspection shall

be performed by a testing laboratory accepted in the DSA Laboratory Evaluation

PI (Project Inspector) – Indicates that the special inspection may be performed

SI (Special Inspection) – Indicates that the special inspection shall be performed

Refer to specific items identified in the Appendix listing exemptions

oundations is not permitted without a geotechnical report.

* Under the supervision of a geotechnical engineer or LOR's

prendix listing exemptions for limitations.

ppendix listing exemptions for limitations.

Appendix (end of this form) for exemptions.)

Table 1705A.3 Item 6; ACI 318-19 Sections 26.5 & 26.12.

(See Appendix (end of this form) for exemptions.)

Code References and Notes

LOR 1905A.1.17; ACI 318-19 Section 26.12.

Performed By Code References and Notes

DSA IR 17-3.

Type Performed By Code References and Notes

Type Performed By Code References and Notes

Type Performed By Code References and Notes

Type | Performed By | Code References and Note

Type Performed By Code References and Notes

Type Performed By Code References and Notes

Continuous | PI | Verify the torque installation torque

DSA IR 17-3.

for trusses (1705A.2.4).

Code References and Notes

applicable); OSA IR 17-3.

AISC 341-16 as applicable); DSA IR 17-3.

D1.1, AWS D1.8; DSA IR 17-2.

LOR

Periodic

Periodic

Periodic

Table 1705A.3 Item 5, 1910A.1

engineering manager. Refer to specific items identified in the

Inder the supervision of a geotechnical engineer or LOR's

ngineering manager. Refer to specific items identified in the

1910A.2; ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See

Default of 'Continuous' per 1705A.3.3. If approved by DSA, batch

plant inspection may be reduced to 'Periodic' subject to requirement

in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. See IR 17-13.

Table 1705A.2.1 Item 3a-3c. 2202A.1; AISI S100-20 Section A3.1 &

A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By

special inspector or qualified technician when performed off-site.

Not applicable to cold-formed steel light-frame construction, except

1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 fo

steel: AWS D1.4 for reinforcing steel: DSA IR 17-3.

SI Table 1703A.2.1 Items 5a.1–4; AISC 360-16 (and AISC 341-16 as

SI Table 1705A.2.1 Item 5 a.5; AISC 360-16 (AISC 341-16 as applicable);

LOR 1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS

structural steel: AWS D1.2 for Aluminum: AWS D1.3 for cold-formed

1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-16 (and

for limitations. Placement of controlled fill exceeding 12" depth under

performed by a registered geotechnical engineer or his or her authorized

and Acceptance (LEA) Program. See CAC Section 4-335.

by an appropriately qualified/approved/special inspector.

inspector when specifically approved by DS

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project.

Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer

of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed

on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special

inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but

framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

**NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code

not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel

2023-11-01 15:01:26

School Name:

Increment Number:

Application Number:

EY TO COLUMNS

1. TYPE

S1. GENERAL

a. Verify that:

Test – Indicates that a test is required

Test or Special Inspection

design bearing capacity.

Test or Special Inspection

placement of fill.

☑ d. Test concrete (f'c).

 \mathbb{Z} b. Compaction testing.

S2. SOIL COMPACTION AND

C1. CAST-IN-PLACE CONCRETE

a. Verify use of required design mix.

b. Identifiy, sample, and test reinforcing steel.

c. During concrete placement, fabricate specimen

tests, and determine the temperature of the

e. Batch plant inspection: Continuous

a. Verify identification of all materials and:

Material sizes, types and grades comply with

d. Verify and document steel fabrication per DS.

a. Verify weld filler material identification markings per

AWS designation listed on the DSA-approved documents

S/A4. SHOP WELDING (IN ADD/TION TO SECTION S/A3):

S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):

a. Shop Welding - Inspect welding of cold-formed steel

1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291

2. Concrete Batch Plant Inspection: Laboratory Verified Report Form DSA 291

☑ b. Verify weld filler material manufacturer's certificate of Periodic

✓ c. Verify WPS, welder qualification and equipment. Periodic

☑ a. Inspect groove welds, multi-pass fillet welds, single pass Continuous

b. Inspect single-pass fillet welds ≤ 5/16", floor and roof
 Periodic

Mill certificates indicate material properties that comply

Test or Special Inspection

☑ b. Test unidentified materials

Test or Special Inspection

Test or Special Inspection

Test or Special Inspection

Test or Special Inspection

Test of Special Inspection

b. Magnetic Particle

S/A11. Other Steel

b. Hollow bolts

Test or Special Inspection

Periodic/Special Inspector

fillet welds > 5/16", plug and slot welds.

b. Inspect single-pass fillet welds ≤ 5/16".

S/A6. NONDESTRUCTIVE TESTING:

☑ c. Examine seam welds of HSS shapes

approved construction documents.

with requirements.

S/A3. WELDING:

and the WPS.

for strength tests, perform slump and air content

Test or Special Inspection

Continuous – Indicates that a continuous special inspection is

Periodic Indicates that a periodic special inspection is required

• Site has been prepared properly prior to placement of

Materials below footings are adequate to achieve the

a. Verify use of proper materials, densities and inspect lift

thicknesses, placement and compaction during

controlled fill and/or excavations for foundations.

depth and have reached proper material.

DSA File Number:

04-122050

CONSTRUCTION OF PERMANENT MODULAR RELOCATABLE BUILDING - CONCRETE FLOOR / CONCRETE FOUNDATION

RELOCATION OF CERTIFIED RELOCATABLE BUILDING

DATE

AND SHOWN AND DETAILED ON DRAWINGS.

SCOPE OF WORK

THE SAME FORCE AS THOUGH FULLY REPEATED IN EACH TRADE SECTION. B. NAME BRANDS ARE INDICATED TO ESTABLISH A STANDARD OF QUALITY. ITEMS OF EQUAL OR BETTER QUALITY MAY BE SUBSTITUTED FOR THE LISTED BRAND

NAMED PRODUCTS WITH THE WRITTEN APPROVAL OF D.S.A. AND THE RDPRC. C. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF TITLES 19 AND 24 CALIFORNIA CODE OF REGULATIONS, 2022 C.B.C. NO CHANGES SHALL BE MADE FROM D.S.A. APPROVED DRAWINGS OR SPECIFICATIONS WITHOUT PRIOR WRITTEN APPROVAL OF D.S.A. AND THE RDPRC.

A. THE WORK CONSISTS OF MANUFACTURING OFF-SITE IN A PLANT AND INSTALLING ON-SITE, MODULAR RELOCATABLE BUILDINGS AS DEFINED HEREIN

B. ALL REQUIREMENTS OF TITLE 24 OF THE STATE OF CALIFORNIA, CODE OF REGULATIONS, RELATING TO INSPECTIONS AND VERIFIED REPORTS SHALL BE COMPLIED WITH AND SHALL INCLUDE:

1. GENERAL RESPONSIBLE CHARGE OF FIELD ADMINISTRATION TO BE PROVIDED BY THE RDPRC.

INSPECTION IN-PLANT DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT. THE INSPECTOR SHALL BE RESPONSIBLE FOR AND APPROVED TO INSPECT THE GENERAL CONSTRUCTION WELDING. MECHANICAL, AND ELECTRICAL WORK. COST OF THESE INSPECTIONS SHALL BE BORNE BY THE SCHOOL DISTRICTS.

ON-SITE INSPECTION OF THE BUILDING INSTALLATION ELECTRICAL AND UTILITY INSTALLATION OR CONNECTIONS BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT AND RETAINED BY THE SCHOOL DISTRICT.

4. OTHER SPECIAL TESTS OR INSPECTIONS AS MAY BE REQUIRED BY THE DIVISION OF THE STATE ARCHITECT.

5. ADDENDUMS SHALL BE SIGNED BY THE RDPRC & APPROVED BY D.S.A. 6. CHANGES TO CONSTRUCTION DOCUMENT AFFECTING ACS, FLS & SSS SHALL BE SIGNED BY THE OWNER & THE RDPRC & APPROVED BY D.S.A. PRIOR TO COMMENCING WORK. CHANGES TO THE CONSTRUCTION COST ARE REPORTED TO D.S.A. USING FORM DSA-168 AT THE CONCLUSION OF THE PROJECT.

7. THE TESTING LAB SHALL BE IN THE EMPLOY OF THE OWNER. 8 ALL CONTRACTORS SHALL VERIFY ALL WORK CONDITIONS, DIMENSIONS AND DETAILS AND REPORT ANY OR ALL OMISSIONS AND DISCREPANCIES

9. EACH CONTRACTOR TO BE RESPONSIBLE TO SEE THAT THEIR WORK CONFORMS TO ALL GOVERNMENTAL CODES WHETHER OR NOT SO STATED

TO THE RDPRC/OWNER IMMEDIATELY BEFORE COMMENCING WORK.

10. ALL MATERIALS AND WORKMANSHIP TO CONFORM TO THE LATEST REQUIREMENTS OF THE GOVERNING BUILDING CODES IN EFFECT AT TIME OF DSA APPLICATION. 11. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE

APPLIED, INSTALLED, CONNECTED AND ERECTED PER MANUFACTURER'S DIRECTIONS AND INSTRUCTIONS. 12. SHOP DRAWINGS MAY BE REQUIRED. IF SO, THEY WILL BE ACCURATELY

DRAWN TO A LARGE ENOUGH SCALE TO SHOW ALL PERTINENT FEATURES OF THE ITEM AND ITS CONNECTION TO RELATED WORK. 13. THE MANUFACTURER OF BUILDING IS TO PLACE TWO PERMANENT METAL IDENTIFICATION LABEL ON EACH MODULE, MECHANICALLY FASTENED TO

THE FRAME SEE "GENERAL DESIGN REQUIREMENTS", SHEET N2.0. FOR PROJECTS MANUFACTURED OFF-SITE, THE PLANT INSPECTOR IS TO INDICATE THE MANUFACTURER'S NAME AND SERIAL NUMBER OF EACH MODULE ON THE VERIFIED REPORT AND D.S.A. APP. NUMBER. 14. ALL TESTS AND INSPECTIONS REQUIRED BY DSA SHALL BE COMPLIED WITH. ALL TESTS REQUIRED BY FIRE AND LIFE SAFETY REGULATIONS

SHALL BE BY A NATIONALLY RECOGNIZED TESTING LABORATORY.

SECTION 2 FOUNDATION

ASSUMED ALLOWABLE SOIL BEARING 1500 P.S.F. FOR CONCRETE FOUNDATIONS EMBEDDED 12" MINIMUM BELOW GRADE. (1/3 INCREASE IN SOIL BEARING CAPACITY NOT PERMITTED FOR WIND & SEISMIC LOAD COMBINATIONS UNLESS USING ALTERNATIVE BASIC LOAD COMBINATIONS PER CBC SECTION 1605A.3.2)

FOOTINGS SHALL BE LOCATED ON UNDISTURBED, FIRM, NATURAL SOIL OR APPROVED COMPACTED FILL WORK NOT INCLUDED: A. ALL ON-SITE OR OFF-SITE UTILITIES AND THE CONNECTION OF THEM TO THE

BUILDING UNLESS INDICATED ON THE DRAWINGS. B. ALL LEVELING, GRADING OR OTHER SITE PREPARATION EXCEPT CONCRETE OR WOOD LEVELING STRIPS WHERE REQUIRED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

FIRE ALARM SYSTEM, PROGRAM BELL, PUBLIC ADDRESS SYSTEM, INTERCOM SYSTEM, TV, TELEPHONE SYSTEM, UNLESS OTHERWISE INDICATED ON THE

DRAWINGS, OR MODIFIED BY CHANGE ORDER WHEELS AND HITCH SHALL REMAIN THE PROPERTY OF THE CONTRACTOR. ACCESSIBILITY OF SITE: THE SCHOOL DISTRICT SHALL PROVIDE ACCESS TO THE SITE FOR THE INSTALLATION OF BUILDINGS. REMOVAL OF TREES. SHRUBS. FENCING, SPRINKLERS ETC. NECESSARY FOR THE MOVE-IN OF BUILDINGS SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

SECTION 3 CONCRETE

CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-19.

THE MINIMUM 28 DAY STRENGTH AND TYPE OF CONCRETE SHALL BE AS FOLLOWS: FOUNDATIONS ..PER SHEET N1.0A (150 PCF) FOUNDATION VENTS & ACCESS WELLS.... ...PER SHEET N1.0A (150 PCF) CONCRETE OVER METAL DECK... ...3000 PSI (110 PCF)

THE MAXIMUM WATER TO CEMENT (W/C) RATIO SHALL BE PER SHEET N1.0A FOR FOUNDATIONS AND 0.45 FOR CONCRETE OVER METAL DECK SLABS.

CONCRETE SLUMP SHALL BE 4" ± 1" PRIOR TO ADDING ANY WATER REDUCING ADMIXTURES. CONCRETE SLUMP SHALL NOT EXCEED 8"± 1 ½" WHEN USING A WATER REDUCING ADMIXTURE.

CEMENT SHALL CONFORM TO ASTM C150. CEMENT TYPE SHALL BE PER SHEET N1.0A FOR FOUNDATIONS, TYPE I OR II FOR CONCRETE OVER METAL DECK SLABS. A. FLY ASH SHALL CONFORM TO ASTM C618 CLASS 'F' OR 'N' AND SHALL NOT

EXCEED 15% CEMENT REPLACEMENT BY WEIGHT. B. SLAG CEMENT SHALL CONFORM TO ASTM C989, GRADE 100 OR 120 AND SHALL NOT EXCEED 50% CEMENT REPLACEMENT BY WEIGHT.

C. COMBINATION OF FLY ASH & SLAG CEMENT SHALL NOT EXCEED 50% CEMENT REPLACEMENT BY WEIGHT.

6. CONCRETE AGGREGATES: A. NATURAL SAND AND ROCK AGGREGATES SHALL CONFORM TO ASTM C33. B. LIGHTWEIGHT AGGREGATE SHALL CONFORM TO ASTM C330. C. MAX AGGREGATE SIZE SHALL BE 1"±1/4" FOR NORMAL WT. CONCRETE EXCEPT

3/8" OR 1/2" MAX MAY BE USED FOR FOUNDATION VENTS & ACCESS WELLS. D. MAX AGGREGATE SIZE SHALL BE 3/8" OR 1/2" FOR LIGHT WT. CONCRETE. REINFORCING SHALL CONFORM TO ASTM A615-GRADE 60, UNLESS OTHERWISE

CONCRETE continued

CONCRETE COVER OVER REINFORCING STEEL SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON DRAWINGS: CONCRETE EXPOSED TO GROUND BUT PLACED IN FORMS2" SLABS (ON GROUND)POSITION IN CENTER OF SLAB

ALL BARS SHALL HAVE A CLASS B MINIMUM LAP SPLICE PER DETAILS 6 & 9/S1.4 AND SPLICES IN ADJACENT BARS SHALL BE STAGGERED, U.N.O. REINFORCING BARS SHALL NOT BE WELDED UNLESS SPECIFICALLY DETAILED IN THE

APPROVED DRAWINGS. BARS DETAILED TO BE WELDED SHALL BE ASTM A706 BARS AND WELDING ELECTRODES SHALL BE E80XX. WELDING SHALL CONFORM WITH AWS D1.4-2017 AND SHALL BE CONTINUOUSLY INSPECTED. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 AND SHALL BE LAP SPLICED

. NOTIFY THE RDPRC PRIOR TO PLACING CONCRETE. 13. CHEMICAL ADMIXTURES SHALL CONFORM TO ASTM C494.

TWO SQUARES MINIMUM EACH DIRECTION.

14. AIR-ENTRAINING ADMIXTURE SHALL CONFORM TO ASTM C260. 15. NON-SHRINK GROUT: ASTM C1107, 5000 PSI MIN AT 7 DAYS.

SECTION 5 GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC 360-16. TITLE 24 OF CALIFORNIA CODE OF REGULATIONS SECTION 2212A.1.2, AND THE AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR DESIGN OF STEEL STRUCTURAL MEMBERS. A COPY OF TITLE 24 SHALL BE KEPT AT THE JOBSITE AT ALL TIMES.

A. FABRICATION AND ERECTION SHALL COMPLY WITH AISC 360-16 CHAPTER 'M' AND AISC 341-16 CHAPTER 'I'. WELDING - ALL WELDING SHALL COMPLY WITH REQUIREMENTS OF THE "STRUCTURAL WELDING CODE" OF THE AMERICAN WELDING SOCIETY AND WELDING DONE BY OPERATORS QUALIFIED BY TESTS ACCEPTABLE TO THE DIVISION OF THE STATE ARCHITECT. WELDING INSPECTION PER TITLE 24. PART 2 CCR, SECTIONS 1705A.2.5. WELDING ELECTRODES, IF UTILIZED, SHALL BE E70XX. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH A FILLER METAL THAT HAS A

MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20FT-LBS AT ZERO DEGREES F AND COMPLYING WITH AWS D1.8-2016. SECTION 6.1. STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE FOLLOWING: A. WIDE FLANGE BEAMS SHALL CONFORM TO ASTM A992, GRADE 50, TYP. U.N.O. B. STRUCTURAL STEEL CHANNELS SHALL CONFORM TO ASTM A36 (36 KSI) TYP.

U.N.O. WHERE DRAWINGS SPECIFY 50 KSI, CHANNELS SHALL CONFORM TO ASTM A572, GR. 50. NOTE: ASTM A572, GR. 50 MAY BE SUBSTITUTED FOR C. PIPE COLUMNS SHALL CONFORM TO ASTM A-53 WITH SULFUR CONTENT NOT

D. STRUCTURAL STEEL TUBING (HSS) FOR STEEL MOMENT FRAME COLUMNS PER SHEET S5.0 SHALL CONFORM TO ASTM A1085. ALL OTHER STEEL TUBING (HSS) MAY CONFORM TO ASTM A500 GRADE B OR C OR ASTM A1085, TYP UNO. E. STEEL PLATES, ANGLES, BARS AND MISC, SHAPES SHALL CONFORM TO ASTM A36 (36 KSI) TYP. U.N.O. WHERE DRAWINGS SPECIFY 50 KSI. STEEL SHALL CONFORM TO ASTM A572, GR. 50. NOTE: ASTM A572, GR. 50. MAY BE

SUBSTITUTED FOR ASTM A36 (36 KSI). ERECTION - STRUCTURAL STEEL ERECTED TRUE, STRAIGHT, PLUMB AND TO ITS DESIGNATED LOCATIONS. FIELD CONNECTIONS BOLTED OR WELDED AS INDICATED

ON THE DRAWINGS. NAILS, BOLTS, SCREWS AND NUTS, ETC. - FOR EXTERIOR WORK SHALL BE CADMIUM PLATED OR GALVANIZED.

A. BOLTS FOR STRUCTURAL STEEL CONNECTIONS SHALL CONFORM TO ASTM A-307 UNLESS OTHERWISE NOTED. ALL HOLES FOR BOLTS THRU STEEL TO BE DRILLED, OR TORCHED PILOT HOLE AND REAMED TO DIAMETER OF BOLT +1/16" UNLESS OTHERWISE NOTED. NELSON STUDS (WELDED TO STEEL) MAY BE

SUBSTITUTED FOR BOLTS SAME LENGTH AND DIAMETER. B. SEE "FASTENERS FOR ATTACHMENT TO STEEL" ON SHEET N2.0 FOR SHOT PINS & SCREWS.

HANDRAILS - FABRICATED, AS DETAILED, NON-FILLET WELDS GROUND SMOOTH. SHOP PAINT A. EXPOSED STEEL COATED WITH ONE SHOP COAT OF RED OXIDE PRIMER.

B. ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO

A. PROVIDE MILL CERTIFICATES OR TEST ALL STEEL MEMBERS PER TITLE-24 PART 2, CCR SECTION 1705A.2 & 2202A.

SECTION 6 CARPENTRY

APPLICATION OF SHOP COATS.

EXCEEDING 0.05% TYP. U.N,O.

SCOPE OF WORK CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL CARPENTRY.

MATERIAL S LUMBER GRADE MARKED IN ACCORDANCE WITH AN APPROVED GRADING AGENCY PER DOC PS20-20 INCLUDING "STANDARD GRADING AND DRESSING RULES NO. 17" OF WEST COAST LUMBER INSPECTION BUREAU, OR "WESTERN LUMBER GRADING RULES", LATEST EDITION OF WESTERN WOOD PRODUCTS ASSOCIATION. OSB OR PLYWOOD GRADE MARKED IN ACCORDANCE WITH PRODUCT STANDARD PS 1-19. PS 2-19, OR PRP-108 FOR SOFTWOOD OSB OR PLYWOOD, OF THE AMERICAN PLYWOOD ASSOCIATION (APA). EACH SHEET SHALL BEAR THE STAMP OF APA, PITTSBURGH TESTING, OR TECO. MOISTURE CONTENT SHALL NOT EXCEED 19%.

A. JOISTS, HEADERS, PLATES, STUDS: DOUGLAS FIR S4S #2 OR HEM FIR S4S #2 MINIMUM, U.N.O. NOTE: MSR 1650 E1.5 MAY BE SUBSTITUTED FOR #2 GRADE IF IT MEETS THE STRUCTURAL REQUIREMENTS FOR

FLOOR AND ROOF MEMBERS.

B. PSL HEADERS: TRUS JOIST PARALLAM PSL BY WEYERHAEUSER (ICC ESR-1387) OR FOULV. MEETING THE FOLLOWING STRUCTURAL PROPERTIES: BEAMS ≤ 7" DEEP & COLUMNS BEAMS ≥ 9¼" DEEP $F_b = 2400 \text{ PSI MIN.}$ $F_{b} = 2900 \text{ PSI MIN.}$ $F_v = 190 \text{ PSI MIN.}$ $F_v = 290 \text{ PSI MIN.}$ E = 2.0E6 PSI MIN.

C. POSTS AND TIMBERS: DOUGLAS FIR S4S #1 OR HEM FIR S4S #1 MIN. BLOCKING: DOUG FIR #3. OR HEM FIR #3. OR STD. & BET. SILLS AND LUMBER & SHIM PLATES IN CONTACT WITH CONCRETE MASONRY OR EARTH: DOUG FIR #2 OR HEM FIR #2 MIN. PRESSURE TREATED IN ACCORDANCE WITH CBC 2304.12.1. EACH PIECE SHALL BEAR AWPA STAMP. AWPA STANDARD U1 & T1 GROUND CONTACT, D.F. (OR H.F.) #2 ABOVE GROUND.

F. MOISTURE BARRIER: KRAFT WATERPROOF BUILDING PAPER, OR 15 LB. FELT, CBC SECTION 1403.2. & ASTM D226, TYPE I. G. STUDS - S4S DOUG FIR #2 OR #2 HEM FIR. MAXIMUM MOISTURE CONTENT OF

19% AT TIME OF INSTALLATION. H. FASTENERS - EXTERIOR USE FASTENERS EXPOSED TO THE OUTSIDE ENVIRONMENT (INCLUDING FASTENERS USED FOR THE ATTACHMENT OF EXTERIOR WALL COVERINGS) SHALL BE CORROSION RESISTANT IN ACCORDANCE WITH C.B.C. SECTION 2304.10.1.1. BUILDING TRIM - 2x RESAWN SELECT D.F., H.F., OR CEDAR. J. DOOR/WINDOW TRIM - 1x4 RESAWN D.F., H.F., OR CEDAR.

K. FRAMING CONNECTORS SHALL BE FROM SIMPSON CATALOG LATEST ED. L. FIRE BLOCKS SHALL CONFORM TO CBC SECTION 718.2 M. ALL NAILS SHALL BE COMMON NAILS PER ASTM F1667 UNLESS OTHERWISE

N. ALL CUT ENDS AND HOLES IN PRESSURE TREATED LUMBER SHALL BE TREATED WITH "CUPRINOL". O. ALL BOLTS AND LAG SCREWS SHALL COMPLY WITH THE 2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (ANSI\AWC NDS-2018).

CARPENTRY continued

P. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".

Q. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER AND DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE 40% TO 70% OF THE SHANK DIAMETER.

R. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS AND NUTS WHICH BEAR ON WOOD.

A. FRAMING - SECURELY NAILED, BRIDGED AND BLOCKED TO FORM RIGID STRUCTURE. WORK CUT, FITTED AND ASSEMBLED LEVEL PLUMB AND TRUE TO LINE. TRIM IN AS LONG LENGTHS AS POSSIBLE WITH ALL STANDING TRIM IN ONE PIECE. TRIM SEALED AT ALL EDGES.

B. NAILING - IN ACCORDANCE WITH TITLE 24, CALIFORNIA BUILDING CODE, TABLE C. EXTERIOR WALLS - FACTORY FABRICATED. CAULKING PROVIDED BETWEEN PERIMETER OF WALL AND STRUCTURAL MEMBERS PROVIDING

WEATHER-PROOF AND WATER-TIGHT SEAL. NECESSARY CLOSERS, SEALS, AND FLASHINGS PLACED AT TOP AND BASE SUPPORT OF PANELS AND AROUND D. NAILS INTO P.T. LUMBER TO BE HOT DIPPED GALVANIZED. E. MACHINE APPLIED NAILING: USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE RDPRC AND THE DIVISION OF THE STATE ARCHITECT. THE

APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE.

MACHINE NAILING WILL NOT BE APPROVED IN 5/16" OSB. IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY. F. MOISTURE BARRIER - APPLIED TO STUDS WEATHER-BOARD FASHION,

HORIZONTAL JOINTS LAPPED MIN 6" INCLUDING BUILDING CORNERS. SHEATHING APPLIED OVER MOISTURE BARRIER. G. TRIM SEALED AT ALL EDGES. SEALANT PAINTED TO MATCH TRIM OR SIDING

SECTION 7A SHEET METAL (NON-STRUCTURAL) SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL INDICATED SHEET METAL.

A. SHEET METAL - STEEL SHEETS HOT DIP GALVANIZED WITH 1.25 OZ. PER SQUARE FOOT ZINC COATING CONFORMING TO ASTM A653 MINIMUM 26 GA.

UNLESS OTHERWISE NOTED ON THE DRAWINGS.

B. SOLDER - OF STAND, GRADE "A" OF EQUAL PARTS, ARD BRAND, LEAD AND TIN ASTM B32.

C. FLUX - ZINC SATURATED MURIATIC ACID.

UNLESS TRANSPARENT TYPE.

2. MATERIALS

D. GUTTERS: 26 GA. G-90 GALV. STEEL DOWNSPOUTS: 2"x3" CONVOLUTED 30 GA. G-90 GALV. STEEL GUTTER ENDCAPS: 26 GA. G-90 GALV. STEEL **GUTTER CLIPS:** 18 GA. G-90 GALV. STEEL FLASHING: 22 GA. G-90 GALV. STEEL U.O.N.

E. FASTENERS: SELF-DRILLING OR SELF-TAPPING SHEET METAL SCREWS. LENGTH TO HAVE (3) EXPOSED THREADS MIN.

WORKMANSHIP SHEET METAL ACCURATELY FORMED TO DIMENSIONS AND SHAPES DETAILED WITH TRUE STRAIGHT LINES, CORNERS AND ANGLES. FLASHING INSTALLED IN LONGEST LENGTHS POSSIBLE. EXTERIOR WORK FORMED, FABRICATED AND INSTALLED SO THAT IT ADEQUATELY PROVIDES FOR EXPANSION AND CONTRACTION IN THE COMPLETED WORK AND FINISHES WATER AND WEATHER TIGHT. ALUMINUM SHALL BE SEPARATED FROM FERROUS METAL BY POLYETHYLENE TAPE OR FLOOD COAT OF ASPHALTIC PAINT.

SECTION 7B METAL ROOFING

SCOPE OF WORK CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL METAL ROOFING. MATERIALS

A. ROOF SHALL BE CONSTRUCTED OF 3" STANDING SEAM INTERLOCKING (UN-PENETRATED) STEEL SHEETS.

PROPERTIES INCLUDING THICKNESS SHALL BE PER SHEET S0.0. BASE MATERIAL SHALL BE EITHER ASTM A1011 SS, GRADE 36 (Fy = 36 KSI) OR ASTM A653 SS, GRADE 37 (Fy = 37 KSI) AND SHALL BE GALVANIZED WITH

D. SHEETS MAY BE PAINTED. E. CLASS B FIRE RATED. F. CLIP ANGLES SHALL BE HOT-DIPPED GALVANIZED.

G. FASTENERS SHALL BE EXTERIOR USE SCREWS WITH A CORROSION PROTECTIVE COATING PER THE "FASTENERS FOR ATTACHMENT TO STEEL" SECTION ON SHEET N2.0. ALL SCREWS USED FOR METAL ROOFING ATTACHMENT SHALL HAVE A NEOPRENE OR EPDM WASHER.

SECTION 7C

G90 GALVANIZATION

SCOPE OF WORK CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL AND SERVICES TO SEAL BUILDINGS.

VULKEM SEALANT, POLYURETHANE, MANUFACTURED BY MAMECO INTERNATIONAL FOR ROOFS. "GEOCEL" SILICONIZED CAULK, GE, DUPONT, EAGLESEAL OR DAP FOR ALL OTHER APPLICATIONS, OR EQUAL.

SEALANT V.O.C. LIMITS PER SCAQMD RULE 1168 (AS SHOWN IN TITLE 24, PART 11, TABLE 5.504.4.1 AND TABLE 5.504.4.2)

SEALANT APPLIED TO DRY CLEAN SURFACES, WHEREVER INDICATED ON DETAILS AND AS NEEDED TO MAKE BUILDING WATERTIGHT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

SECTION 7D SINGLE-PLY ROOFING

SCOPE OF WORK CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL AND SERVICES TO INSTALL SINGLY-PLY OR BUILT-UP ROOFING. THE ROOFING SYSTEM SHALL WITHSTAND THE UPLIFT OF 100 MPH BASIC WIND SPEED.

MEMBRANE: PVC FILM LAMINATED TO BOTH SIDES OF A REINFORCEMENT FABRIC, OR EQUIV. - PROPRIETARY THERMOPLASTIC PVC FORMULATION OF RESINS. PLASTICIZERS, STABILIZERS, BIOCIDES, FLAME RETARDANTS, AND U.V. ABSORBENTS. CLASS B FIRE RATING.

A. WOOD NAILERS MUST BE A #2 GRADE LUMBER, OR EQUIVALENT, TO SUBSTRATE MEMBRANE APPLIED ON SUBSTRATES THAT ARE DRY, CLEAN, AND FREE OF FINS, SHARP EDGES AND LOOSE, FOREIGN MATERIALS, WHEREVER INDICATED ON DETAILS. AN INSULATION OR SLIP SHEET HAVING AN APPROVED FACER MUST BE USED WHEN ROOFING OVER ASPHALT OR COAL TAR ROOFS.

MEMBRANE SHALL BE DESIGNED TO PERFORM IN ALL TYPES OF WEATHER AND SHALL COMPLY TO ASTM D-2136 TESTING METHODS. MEMBRANE SHALL BE DESIGNED IN ACCORDANCE TO ASTM D-4434 "STANDARD SPECIFICATIONS FOR POLY (VINYL CHLORIDE) SHEET ROOFING" AND BE CLASSIFIED AS A TYPE IV, INTERNALLY REINFORCED SHEET.

SECTION 8 HOLLOW METAL DOORS AND FRAMES

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL HOLLOW METAL DOORS AND FRAMES.

MATERIALS

PRIME COAT.

A. DOORS - INSULATED TYPE L FULL FLUSH, MANUFACTURED BY AMWELD MANUFACTURING COMPANY, 18 GA. 1-3/4" THICK PER CS242 MIN, REINFORCE FOR HARDWARE-BOTH FACES FOR CLOSER, SOUND DEADEN INTERIOR.

B. FRAMES - 16 GA COLD ROLLED, 2" FACES, CS242 MIN. 3 ANCHORS PER JAMB + ADJUSTABLE FLOOR ANCHOR, EACH JAMB REINFORCE FOR HARDWARE. PROVIDE STRIKE BOX, PROVIDE SOUND DEADENING: 1/8" UNDERCOATING OR INSULATING FILL.

ALL WORK FABRICATED IN SHOP TO REQUIRED PROFILES BY FORMING AND

WELDING, WITH ARISES AND EDGES STRAIGHT, SHARP FIT FABRICATED ACCURATELY WITH SQUARE CORNERS, HAIRLINE JOINTS AND SURFACES FREE FROM WARP, WAVE, BUCKLE OR OTHER DEFECTS AFTER FABRICATION, DOORS AND FRAMES CLEANED THOROUGHLY, ALL WELDS GROUND SMOOTH AND GIVEN

(EXTERIOR PORTLAND SECTION 9A STUCCO CEMENT PLASTER) LATHING AND PLASTERING MATERIALS AND ACCESSORIES SHALL BE MARKED BY THE MANUFACTURER'S DESIGNATION TO INDICATE COMPLIANCE WITH THE APPROPRIATE STANDARDS REFERENCED IN THIS SECTION AND STORED IN SUCH A MANNER TO

PROTECT THEM FROM THE WEATHER, PER C.B.C 2507.1.

LATHING AND PLASTERING MATERIALS SHALL CONFORM TO THE STANDARDS LISTED IN C.B.C. TABLE 2507.2 AND CHAPTER 35, AND, WHERE REQUIRED FOR FIRE PROTECTION,

LISTED IN C.B.C. TABLES 2506.2 AND 2507.2. THESE MATERIALS SHALL BE ASSEMBLED AND INSTALLED IN COMPLIANCE WITH THE APPROPRIATE STANDARDS LISTED IN TABLES 2508.1 AND 2511.1, AND CHAPTER 35 (PER 2508.1). WATER-RESISTIVE BARRIERS SHALL BE IN ACCORDANCE WITH C.B.C. SECTION 2510.6.

WATER-RESISTIVE BARRIERS SHALL BE INSTALLED AS REQUIRED PER SECTION 1404.2,

GYPSUM BOARD AND GYPSUM PLASTER CONSTRUCTION SHALL BE OF THE MATERIALS

AND WHERE APPLIED OVER WOOD-BASED SHEATHING, SHALL INCLUDE A WATER-RESISTIVE VAPOR-PERMEABLE BARRIER WITH A PERFORMANCE AT LEAST EQUIVALENT TO TWO LAYERS OF GRADE D PAPER. EXCEPTION: WHERE THE WATER-RESISTIVE BARRIER THAT IS APPLIED OVER WOOD-BASED SHEATHING HAS A WATER RESISTANCE EQUAL TO OR GREATER THAN

THAT 60-MINUTE GRADE D PAPER COMPLYING WITH ASTM E 2556, TYPE II AND IS

SEPARATED FROM THE STUCCO BY AN INTERVENING, SUBSTANTIALLY NONWATER-ABSORBING LAYER OR DRAINAGE SPACE. PLASTER NOTES: PLASTERING WITH CEMENT PLASTER SHALL NOT BE LESS THAN THREE COATS WHEN APPLIED OVER METAL LATH OR WIRE FABRIC LATH AND SHALL NOT BE LESS THAN TWO COATS WHEN APPLIED OVER MASONRY CONCRETE OR

GYPSUM BACKING AS SPECIFIED IN SECTION 2510.5. A. THE FIRST COAT SHALL BE MIN. 3/8" THICK & APPLIED WITH SUFFICIENT MATERIAL AND PRESSURE TO FILL SOLIDLY ALL OPENINGS IN THE LATH. THE SURFACE SHALL BE SCORED HORIZONTALLY SUFFICIENTLY ROUGH TO PROVIDE ADEQUATE BOND TO RECEIVE THE SECOND COAT.

THAT HAVE BEEN IN PLACE FOR THE TIME PERIODS SET FORTH IN ASTM C 926.

AND PRESSURE TO BOND TO AND TO COVER THE BROWN COAT AND SHALL BE

THE THIRD OR FINISH COAT SHALL BE APPLIED WITH SUFFICIENT MATERIAL

THE SECOND COAT SHALL BE BROUGHT OUT TO MIN. 3/8" THICKNESS, RODDED AND FLOATED SUFFICIENTLY ROUGH TO PROVIDE ADEQUATE BOND FOR THE FINISH COAT. THE SECOND COAT SHALL HAVE NO VARIATION GREATER TO THAN 1/4 INCH (6.4 mm) IN ANY DIRECTION UNDER 5-FOOT STRAIGHT EDGE. THE FINISH COATS SHALL BE MIN. 1/8" THICK & APPLIED OVER BASE COATS

OF SUFFICIENT THICKNESS TO CONCEAL THE BROWN COAT.

SECTION 9B

SCOPE OF WORK. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PAINT BUILDING. ALL EXPOSED SURFACES OF BUILDING AND RAMPS SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES, THRESHOLDS, AND ROOFING.

PAINTS & COATINGS

A. FOR EXTERIOR WOOD: SINCLAIR REF.BRAND DUNN KFIIY SHERWIN WILLIAMS **FDWARDS** MOORE 1240 Y24W20 B54WZ102 1240-XXX GE2-NXX QD-60-XX FINISH FOR INTERIOR TRIM KELLY SHERWIN SINCLAIR REF.BRAND DUNN MOORE WILLIAMS **FDWARDS** 40XX FINISH W450-XX 1650-XXX A26W11 C. FOR METAL SHERWIN SINCLAIR KFLLY REF.BRAND **EDWARDS** MOORE WILLIAMS B50NZ6 PRIMER 43-4 1710

1700-XXX B54WZ102 GE2-NXX 10-XX FINISH D. INTERIOR PAINT & COATINGS SHALL COMPLY WITH TITLE 24, PART 11, "CAL-GREEN" SECTION 5.504.4.3, AND V.O.C. LIMITS PER TABLE 5.504.4.3.

ALL EXPOSED SURFACES SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES. THRESHOLDS AND METAL ROOFING. MATERIAL SHALL BE OF THE GRADE SPECIFIED OR EQUAL.

A. EXTERIOR WOOD SIDING, TRIM AND SKIRTING - FLAT OR SEMI-GLOSS LATEX. APPLY ONE COAT OF PRIME AND AT LEAST ONE FINISH COAT. PRIME COAT SHALL BE BRUSHED ON OR SPRAYED AND BACK BRUSHED INTO ALL GROOVES IN THE SIDING IE NECESSARY IN THE OPINION OF THE INSPECTOR AN EXTRA COAT SHALL BE APPLIED TO ALL GROOVES SO THAT THE FINISH COAT WILL HAVE A UNIFORM APPEARANCE. ALLOW PRIME COAT TO DRY ACCORDING TO MANUFACTURER'S RECOMMENDATION. PRIME AND FINISH COATS SHALL BE

COMPATIBLE AND MANUFACTURED BY THE SAME COMPANY. B. INTERIOR TRIM - TRIM NOT PRE-COATED SHALL BE PAINTED WITH TWO COATS OF SEMI-GLOSS LATEX OVER PRIMER.

INTERIOR HARDWOOD CABINETS - TWO COATS LOW LUSTER POLYURETHANE FINISH. APPLY FIRST COAT THINNED WITH ONE QUART MINERAL SPIRITS PER GALLON. APPLY SECOND COAT AS RECOMMENDED BY MANUFACTURER. D. METAL - ALL METAL SURFACES SHALL BE PAINTED WITH TWO COATS OF ALKYD

FINISH COAT OVER ZINC CHROMATE OR EQUAL RUST INHIBITING PRIMER. E. RAMP - ONE COAT OF FERROX NON-SLIP (0.8 MIN. C.O.F.) SURFACING AS MANUFACTURED BY AMERICAN ABRASIVE METALS OR COMPARABLE. ALL PAINTS OF THE TYPE INDICATED SHALL BE LISTED ON THE STATE OF CALIFORNIA QUALIFIED PRODUCTS LIST, OR EQUAL.

F. SUBMIT ONE SET OF COLOR SAMPLES TO THE RDPRC FOR EACH PRODUCT TO ASSIST IN SELECTION.

SECTION 9C INTERIOR AIR QUALITY CONTROL

THE INTERIOR ENVIRONMENT SHALL BE ASSEMBLED WITH PRODUCTS THAT CONTRIBUTE TO A HEALTHY INDOOR AIR QUALITY (IAQ). THE FOLLOWING SHALL COMPLY TITLE 24, PART 11 ("CAL-GREEN"):

ADHESIVES, SEALANTS, CAULKS SECTION 5.504.4.1 2. PAINTS, COATINGS SECTION 5.504.4.3 AEROSOL PAINTS & COATINGS SECTION 5.504.4.3.1

1. CARPET SYSTEMS SECTION 5.504.4.4 A. CARPET SHALL MEET CRI'S "GREEN LABEL PLUS" PROGRAM, NSF/ANSI '140 GOLD' LEVEL, OR OTHER APPROVED TESTING PER 5.504.4.4.

CARPET CUSHION OR PAD SECTION 5.504.4.4.1 A. CUSHION/PAD SHALL MEET THE CRI'S "GREEN LABEL" PROGRAM. CARPET ADHESIVE SECTION 5.504.4.4.2 A. ADHESIVES SHALL MEET THE REQUIREMENTS OF TABLE 5.504.4.1.

RESILIENT FLOORING SYSTEMS SECTION 5.504.4.6

A. SEE SHEET M1.7 FOR HVAC FILTER REQUIREMENTS

COMPOSITE WOOD PRODUCTS SECTION 5.504.4.5 A. ALL COMPOSITE WOODS MUST NOT EXCEED THE FORMALDEHYDE LIMITS AS SPECIFIED IN ARB'S "AIR TOXICS CONTROL MEASURE" (17 CCR 93120), OR NON-EXEMPT MATERIALS PER TABLE 5.504.4.5.

A. RESILIENT FLOORING SHALL BE CERTIFIED UNDER THE "FLOORSCORE" PROGRAM BY RFCI, COMPLY WITH CA-CHPS, OR OTHER APPROVED TESTING PER 5.504.4.6. 9. HVAC FILTER (MERV RATING OF 13 AND MINIMUM 2-INCH DEPTH) SECTION 5.504.5.3.1

SECTION 13 SITE ASSEMBLY

SCOPE OF WORK CONTRACTOR SHALL PROVIDE ALL LABOR MATERIALS AND SERVICES TO PREPARE THE BUILDING ELEMENTS. TRANSPORT THEM FROM THE PLANT TO THE SITE AND TO COMPLETE THE ASSEMBLY AT THE SITE. THE CONDITION OF THE SITE, SUCH AS DRAINAGE AND SOIL BEARING CAPACITY, SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT. UNLESS SPECIFICALLY CALLED FOR IN THE CONTRACT, STEPS,

RAMPS, OR HANDRAILS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ASSEMBLY OF ELEMENTS

A. IN A LOCATION ON THE SITE AS DETERMINED BY THE SCHOOL DISTRICT. (APPROVED BY DSA) THE CONTRACTOR SHALL PLACE WOOD LEVELING STRIPS OR OTHER SUITABLE SUPPORTS AS DETAILED ON THE DRAWINGS.

B. THE ELEMENTS SHALL BE BROUGHT TO THE SITE ON WHEEL ASSEMBLY AND TRANSFERRED TO THE PREPARED SITE. GREAT CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ELEMENTS BY RACKING OR BUMPING EACH OTHER.

C. CONNECTION OF THE ELEMENTS TOGETHER SHALL BE DONE ACCORDING TO INSTRUCTION ON THE DRAWINGS. FLASHINGS, TRIM AND OTHER LOOSE ITEMS SHALL BE INSTALLED PER DETAILS ON THE DRAWINGS.

SECTION 23 AIR CONDITIONING

SCOPE OF WORK (SEE SHEET M1.7 FOR HVAC SPEC. AND NOTES) CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL THE AIR CONDITIONING SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFICATIONS, INCLUDING A/C UNITS AND ACCESSORIES, REMOTE THERMOSTAT GRILLS AND POWER WIRING COMPLETE TO LOAD CENTER. CONTRACTOR SHALL INSTRUCT OWNER'S OPERATORS ON OPERATION AND MAINTENANCE OF A/C

SYSTEM.

SEE NOTE ON FLOOR PLAN FOR SIZE AND TYPE. UNITS SHALL BE INSTALLED COMPLETE AND OPERATING WITH ALL ACCESSORIES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

SECTION 26 ELECTRICAL

SCOPE OF WORK A. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES FOR ELECTRICAL INSTALLATION COMPLETE WITH ASSOCIATED EQUIPMENT AND FIXTURES, IN OPERATING CONDITION READY FOR USE. THE WORK INCLUDES: LIGHT AND POWER SYSTEMS, LIGHTING FIXTURES COMPLETE WITH LAMPS, CONNECTIONS AND DISCONNECTS TO A/C EQUIPMENT, EMERGENCY VOICE

B. PROVIDE CONDUIT WITH PULL STRINGS AND JUNCTION BOXES FOR AUTOMATIC DETECTION FIRE ALARM SYSTEM AND NOTIFICATION PER NFPA 72.

ALL NEW COMPLYING WITH REQUIREMENTS OF CALIFORNIA ELECTRIC CODE. A. ELECTRIC METALLIC TUBING - COUPLING AND FLEX CONDUIT GALVANIZED OR

SHERARDIZED. EXTERIOR FLEX-GALV. STEEL WITH FACTORY APPLIED P.V.C.

ALARM COMMUNICATION SYSTEMS (EVACS).

B. PANEL BOARDS - FLUSH MOUNTED. C. CONDUCTORS - COPPER, INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES

#12 TO #6, TYPE THW FOR LARGER SIZES. MINIMUM SIZE-#14.

D. RECEPTACLES - AS NOTED. +18" A.F.F. MIN. TO BOTTOM OF BOX

E. CLOCK RECEPTACLE - AS NOTED. F. SWITCHES - AS NOTED. +48" A.F.F. MAX. TO TOP OF BOX

G. LIGHTING FIXTURES - AS NOTED ON THE DRAWINGS.

MATERIALS AND EQUIPMENT INSTALLED IN A SECURE, NEAT, WORKMANLIKE MANNER IN ACCORDANCE WITH CODE REQUIREMENTS. PANEL BOARD CARDS SHALL BE FILLED OUT. CONDUIT AND CABLE INSTALLED IN WALL AND CEILING SPACES. WORK PIERCING WATERPROOFED AREAS FLASHED AND SEALED TO A WATERTIGHT CONDITION. BUILDING CONDUIT/WIRING FROM FACE OF BUILDING TO SITE TERMINATION BY SITE CONTRACTOR (N.I.C.). (FLEXIBLE CONDUIT S-BEND SEALTITE).

INSPECTION INSPECTION OF PREFABRICATED BUILDINGS IS DIVIDED INTO TWO SEPARATE FUNCTIONS:

IN-PLANT INSPECTION. ON-SITE INSPECTION.

> THE CONTRACTOR SHALL ALLOW UP TO SEVEN (7) DAYS FROM THE DATE OF PLAN APPROVAL TO OBTAIN AN IN-PLANT INSPECTOR APPROVED BY D.S.A.

IN-PLANT INSPECTION AND MATERIAL TESTING SHALL BE ACCOMPLISHED UNDER THE SUPERVISION OF THE DISTRICT ARCHITECT. THE CONTRACTOR SHALL NOTIFY THE DISTRICT ARCHITECT, DSA, AND THE DESIGNATED INSPECTOR/INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK. THE MANUFACTURER SHALL PROVIDE THE INSPECTOR WITH FULL ACCESS TO ALL PLANT OPERATIONS INVOLVING WORK UNDER THIS CONTRACT AND SHALL ADVISE THE INSPECTOR IN ADVANCE OF THE TIME AND PLACE OF OPERATIONS THAT THE INSPECTOR WANTS TO OBSERVE TAKE PLACE. BEFORE THE BUILDING(S) ARE REMOVED FROM THE PLANT FOR DELIVERY TO THE STORAGE FACILITY, OR FROM THE STORAGE FACILITY TO THE SITE, THE INSPECTOR SHALL DETERMINE THAT THEY ARE ACCEPTABLE AND ISSUE A WRITTEN RELEASE WHICH SHALL BE IN THE FORM OF A VERIFIED REPORT (FORM DSA 152-IPI).

A COPY OF THE INSPECTOR'S VERIFIED REPORT SHALL ACCOMPANY EACH BUILDING TO STORAGE OR TO THE SITE. THE INSPECTOR SHALL PUT ONE COPY IN EACH BUILDING.

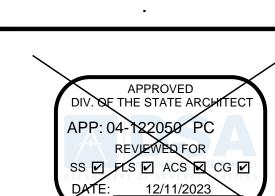
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PRE-CHECKED SET NAME 24' x 40' THRU 120' x 40' STANDARD MODULAR BUILDING (LOW SEISMIC)

SITE SPECIFIC PROJECT NAME



2022 CBC PRE-CHECK (PC) DOCUMENT



THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

DRAWN BY: AA AS NOTED MM/DD/YY ROJECT NO: XXXX-22

> **GENERAL NOTES SPECIFICATIONS**

SHEET TITLE:

HMC Architects

3595001000

2101 CAPITOL AVENUE, SUITE 100

SACRAMENTO, CA 95816 916 368 7990 / www.hmcarchitects.com

△ **DESCRIPTION**

KEYNOTES

GENERAL NOTES

MANUFACTURER PROFESSIONAL OF RECORD ON PC

ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE **TRACY. CA 95377**

PROJECT:

GENERAL NOTES & SPECIFICATIONS

SHEET NUMBER:

DATE: 04/03/24

ART FREILER ES - TK CLASSROOM

CLIENT PROJ NO: 359500100

PLEASE RECYCLE 🖧

BELOW GRADE MAXIMUM 28-DAY

FOUNDATIONS (2)

FOUNDATION VENTS

& ACCESS WELLS

0.45

0.45

CEMENT SHALL BE CERTIFIED PER TITLE 24, PART 2, SECTION 1910A.1.

SEE CONCRETE NOTES ON SHEET N1.0 FOR ADDITIONAL REQUIREMENTS.

4500

4500

PROPORTIONING OF CONCRETE MIXTURES SHALL BE IN ACCORDANCE WITH ACI 318-19, SECTION 26.4.3.

⁽²⁾ FOUNDATIONS CONSERVATIVELY DESIGNED FOR A MIMINUM 28-DAY CONCRETE STRENGTH OF 3,500 PSI.

CEMENTITIOUS MATERIALS

SIZE (IN)

1" ± 1/4"

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-122975 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

DATE



HMC Architects

3595001000

2101 CAPITOL AVENUE, SUITE 100 SACRAMENTO, CA 95816

916 368 7990 / www.hmcarchitects.com

△ **DESCRIPTION**

KEYNOTES

GENERAL NOTES

FACILITY: ART FREILER ELEMENTARY SCHOOL

TRACY, CA 95377

2421 W LOWELL AVE

PROJECT: ART FREILER ES - TK CLASSROOM

BELOW GRADE CONCRETE MIX DESIGN REQUIREMENTS

DATE: 04/03/24 CLIENT PROJ NO: 359500100

☐ OPTIONAL SITE-SPECIFIC CONCRETE MIX DESIGN REQUIREMENTS FOR BELOW GRADE NORMAL WEIGHT CONCRETE (1) DEFAULT CONCRETE MIX DESIGN REQUIREMENTS FOR BELOW GRADE NORMAL WEIGHT CONCRETE (1) (MOST RESTRICTIVE REQUIREMENTS FROM EXPOSURE TABLES BELOW) TARGET AIR CONTENT (%) MINIMUM 28-DAY CEMENTITIOUS MATERIALS MAX AGGREGATE TARGET AIR BELOW GRADE CONCRETE ELEMENT W/C RATIO STRENGTH (f'_c) (CEMENT TYPE PER ASTM C150) MAX AGGREGATE CONCRETE NOT EXPOSED TO CONCRETE EXPOSED TO STRENGTH (f'c) CONCRETE ELEMENT W/C RATIO (CEMENT TYPE PER ASTM C150) SIZE (IN) CONTENT (%) FREEZING-AND-THAWING CYCLES FREEZING-AND-THAWING CYCLES FOUNDATIONS (2) 1" ± ¼" N/A 3/8" FOUNDATION VENTS 1/2" & ACCESS WELLS 1" ± 1/4" (1) PROPORTIONING OF CONCRETE MIXTURES SHALL BE IN ACCORDANCE WITH ACI 318-19, SECTION 26.4.3. DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISTICS SHALL BE IN ACCORDANCE WITH ACI 318-19, SECTION 26.4.4. DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISTICS SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.4.

CEMENT SHALL BE CENTIFIED PER TITLE 24, PART 2, SECTION 1910A.1.

SEE CONCRETE NOTES ON SHEET N1.0 FOR ADDITIONAL REQUIREMENTS.

(2) FOUNDATIONS HAVE BEEN RESIGNED FOR THE WORST CASE MIMINUM 28-DAY CONCRETE STRENGTH OF 3,500 PSI.

| | EXPOSURE CATEGORY: FREEZING & THAWING (F) (ACI 318-19, SECTION 19.3) | | | | | | |
|-----------|--|---|-----------|----------------------|---------------------------------------|---|-----------------------------|
| EXPOS | SURE | CONDITION | MAXIMUM | MINIMUM 28-DA (P: | NY STRENGTH (f _c ') SI) | AIR CO | NTENT |
| CLASS (1) | | CONDITION | W/C RATIO | FOUNDATIONS | FOUNDATION VENTS & ACCESS WELLS | MAX AGGREGATE SIZE (IN) ⁽²⁾ | TARGET AIR CONTENT (%) |
| | F0 | CONCRETE NOT EXPOSED TO FREEZING-AND THAWING CYCLES | 0.55 | 3500 | 3000 | N/ | 'A |
| | F1 | CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES WITH LIMITED EXPOSURE TO WATER | 0.55 | 3500 | 3500 | 3/8 1/2 3/4 1 1½ | 6 5.5 5 4.5 4.5 |
| | F2 | CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES WITH FREQUENT EXPOSURE TO WATE | 15 | 4500 | 4500 | 3/8 1/2 | 7.5 7 |
| | F3 | CONCRETE EXPOSED TO FREEZING-AND-TH WING CYCLES WITH FREQUENT EXPOSURE TO WAR R AND EXPOSURE TO DEICING CHEMICALS | 0.40 | 5000 | 5000 | 3/4 1 1½ | 6 6 5.5 |

CONDITION **EXPOSURE** CEMENTITIOUS MATERIALS (CEMENT TYPE PER ASTM C150) DISSOLVED SULFATE (SO₄²-) SULFATE (SO₄²⁻) IN SOIL, IN WATER, PPM ⁽³⁾ PERCENT BY MASS (2) 0.55 I OR II $SO_4^{2-} < 0.10$ SO₄²⁻ < 150 $150 \le SO_4^{2^-} < 1500$ $0.10 \le SO_4^{2} < 0.20$ 0.50 OR SEAWATER $0.20 \le SO_4^{2-} \le 2.00$ $1500 \le SO_4^{2-} \le 10,000$ 0.45 $SO_4^{2-} > 2.00$ V PLUS FLYASH OR SLAG CEMENT⁽⁴⁾

(1) IF EXPOSURE CLASS IS UNKNOWN, S2 MAY BE ASSUMED. (2) PERCENT SULFATE BY MASS IN SOIL SHALL BE DETERMINED BY ASTM C1780.

(2) SEE CONCRETE NOTES ON SHEET N1.0 FOR MAX AGGREGATE SIZES.

(3) CONCENTRATION OF DISSOLVED SULFATES IN WATER, IN PPM, SHALL BE DETERMINED BY ASTM D516 OR ASTM D4130.

(4) PER ACI 318-14, TABLE 19.3.2.1, FOOTNOTE 6, THE AMOUNT OF THE SPECIFIC SOURCE OF THE POZZOLAN OR SLAG CEMENT TO BE USED SHALL BE ATLEAST THE AMOUNT THAT HAS BEEN DETERMINED BY SERVICE RECORD TO IMPROVE SULFATE RESISTANCE WHEN USED IN CONCRETE CONTAINING TYPEV CEMENT. ALTERNATIVELY, THE AMOUNT OF THE SPECIFIC SQURCE OF THE POZZOLAN OR SLAG CEMENT TO BE USED SHALL

BE AT LEAST THE AMOUNT TESTED IN ACCORDANCE WITH ASTM C1012 AND MEETING THE CRITERIA IN ACI 318-14, SECTION 26.4.2.2(c). SEE CONCRETE NOTES ON SHEET N1.0 FOR ADDITIONAL REQUIREMENTS.

| | EXPOSURE CATEGORY: IN CONTACT WITH WATER (W) (ACI 318-19, SECTION 19.3) | | | | | | | |
|-----|--|--|-----------|-------------|---------------------------------------|-------------------------|--|--|
| EXI | EXPOSURE | | MAXIMUM | | AY STRENGTH (f _c ') SI) | | | |
| | CLASS | CONDITION | W/C RATIO | FOUNDATIONS | FOUNDATION VENTS & ACCESS WELLS | ADDITIONAL REQUIREMENTS | | |
| | W0 | CONCRETE DRY IN SERVICE OR CONCRETE IN CONTACT WITH WATER AND LOW PERMEABILITY IS NOT REQUIRED | 0.55 | 3500 | 3000 | NONE | | |
| | W1 ⁽¹⁾ | CONCRETE IN CONTACT WITH WATER AND LOW PERMEABILITY IS REQUIRED | 0.50 | 4000 | 4000 | NONE | | |

(1) EXPOSURE CLASS W1 15 ONLY REQUIRED IF CONCRETE IS BELOW THE GROUNDWATER TABLE.

| | EXPOSURE CATEGORY: CORROSION PROTECTION OF REINFORCEMENT (C) (ACI 318-19, SECTION 19.3) | | | | | | | |
|-----------|---|----|--|-----------|---|---------------------------------|--|--|
| | EXPOSURE CONDITION | | CONDITION | MAXIMUM | MINIMUM 28-DAY STRENGTH (f _c ') (PSI) | | MAXIMUM WATER-SOLUBLE CHLORIDE ON (| |
| | | | CONDITION | W/C RATIO | FOUNDATIONS | FOUNDATION VENTS & ACCESS WELLS | CONTENT IN CONCRETE, PERCENT BY WEIGHT OF CEMENT | |
| $\sqrt{}$ | | C1 | CONCRETE EXPOSED TO MOISTURE BUT NOT TO AN EXTERNAL SOURCE OF CHLORIDES | 0.55 | 3500 | 3000 | 0.30 | |
| | | C2 | CONCRETE EXPOSED TO MOISTURE AND AN EXTERNAL SOURCE OF CHLORIDES FROM DEICING CHEMICALS, SALT, BRACKISH WATER, SEAWATER, OR SPRAY FROM THESE SOURCES | 0.40 | 5000 | 5000 | 0.15 | |

THE DEFAULT CONCRETE MIX DESIGN REQUIREMENTS MAY BE SELECTED AND USED TO DETERMINE THE CONCRETE MIX REQUIREMENTS FOR ANY SITE PER DSA IR PC-2 SECTION 5.5 OR PC-6 SECTION 5.5.

2. THE DEFAULT CONCRETE MIX DESIGN REQUIREMENTS MAY BE SELECTED REGARDLESS OF WHETHER A SITE SPECIFIC GEOTECHNICAL REPORT EXISTS FOR THE SITE.

3. IF THE SITE CONDITIONS FOR THE SOIL ARE KNOWN AS REPORTED BY A GEOTECHNICAL OR OTHER APPROVED SOIL CONDITIONS REPORT, THE OPTIONAL SITE-SPECIFIC CONCRETE MIX DESIGN REQUIREMENTS MAY BE UTILIZED.

4. IF THE OPTIONAL SITE-SPECIFIC CONCRETE MIX DESIGN REQUIREMENTS ARE UTILIZED, THE REPORT MUST BE REFERENCED ON THE COVER SHEET OF THIS DRAWING PACKAGE.

PLEASE RECYCLE

SITE SPECIFIC PROJECT NAME

MAXIMUM WATER-SOLUBLE CHLORIDE ION (CI-)

CONTENT IN CONCRETE, PERCENT BY WEIGHT OF

CEMENT

APPROVED DIV. OF THE STATE ARCHITECT APP: 04-122050 PC SS D FLS D ACS D CG D

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24' x 40' THRU 120' x 40' STANDARD MODULAR BUILDING

PRE-CHECKED SET NAME

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DRAWN BY: AA MM/DD/YY PROJECT NO: XXXX-22

BELOW GRADE CONCRETE MIX DESIGN REQUIREMENTS

SHEET NUMBER:

DATE

KEYNOTES

GENERAL NOTES

APPROVED IV. OF THE STATE ARCHITEC APP: 04-122050 PC SS D FLS D ACS CG D

MANUFACTURER PROFESSIONAL O

PROJECT NO: 1715-22

SPECIFICATIONS

SHEET NAME:

COORDINATION OF WORK

THE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS WITH THE SCHOOL DISTRICT AUTHORIZED REPRESENTATIVE FOR ACCESS TO GROUNDS AND REMOVAL OF EQUIPMENT, IF NECESSARY. THIS CONTACT SHALL BE MADE AT LEAST 48 HOURS PRIOR TO DELIVERY OF ANY MODULE. ON-SITE INSPECTION SHALL BE DONE BY THE SITE INSPECTOR. ALL WORK WHICH THE MANUFACTURER OR HIS SUBCONTRACTORS PERFORM AT THE SITE SHALL BE SUBJECT TO THE INSPECTION OF THE SITE INSPECTOR. THE MANUFACTURER WILL FURNISH THE SITE INSPECTOR WITH SUCH INFORMATION AS MAY BE NECESSARY TO KEEP HIM FULLY INFORMED AS TO PROGRESS OF WORK AND DATES WHEN SITE WORK WILL OCCUR. THE CONTRACTOR SHALL NOTIFY THE INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO

THE CONTRACTOR SHALL VERIFY THAT THE DISTRICT'S SITE IS READY TO RECEIVE THE CLASSROOM(S) PRIOR TO THE DELIVERY OF ANY CLASSROOM(S) BY VISITING EACH SITE (THIS MAY BE DONE BY THE INSPECTOR).

MATERIALS AND WORKMANSHIP

- ALL CONTRACTORS SHALL CERTIFY THAT NO ASBESTOS-CONTAINING BUILDING MATERIALS WHICH EXCEED STATE AND FEDERAL MANDATED SAFE ASBESTOS LEVELS HAVE BEEN USED IN THE CONSTRUCTION OF RELOCATABLE FACILITIES.
- ALL WORKMEN SHALL BE SKILLED AND QUALIFIED FOR THE WORK WHICH THEY PERFORM. ALL MATERIALS USED, UNLESS OTHERWISE SPECIFIED, SHALL BE NEW AND OF THE TYPES AND GRADES SPECIFIED. THE CONTRACTOR SHALL, IF REQUESTED, FURNISH EVIDENCE SATISFACTORY TO THE RDPRC THAT SUCH IS
- CONTRACTOR'S CREWS ASSIGNED TO ANY WORK PERFORMED UNDER THIS CONTRACT SHALL INCLUDE ONE COMPETENT AND FULLY EXPERIENCED PERSON DESIGNATED AS THE RESPONSIBLE PERSON IN CHARGE. SUCH PERSON MUST BE IDENTIFIED BY NAME TO THE DISTRICT IN ADVANCE OF ANY WORK. UPON REQUEST, THE CONTRACTOR SHALL PROMPTLY FURNISH TO THE DISTRICT INFORMATION RELATING TO THIS EMPLOYEE'S EXPERIENCE.
- WORKMANSHIP SHALL BE EQUAL OR BETTER IN QUALITY TO THAT REQUIRED BY THE CONSTRUCTION TRADES FOR A FINISHED PRODUCT. A QUALITY CONTROL SUPERVISOR, DESIGNATED BY THE MANUFACTURER, SHALL REVIEW ALL WORK IN PROGRESS AND SHALL REVIEW THE FINISHED BUILDING PRIOR TO FINAL INSPECTION TO ASSURE IT IS COMPLETE AND CORRECT. THE QUALITY CONTROL SUPERVISOR SHALL HAVE THE AUTHORITY TO HAVE MATERIALS REPLACED AND WORK REDONE IN ORDER TO CORRECT FAULTY MATERIALS OR WORKMANSHIP.

GENERAL DESIGN REQUIREMENTS

- UP TO TEN (10) MODULES, APPROXIMATELY 12' x 40', DESIGNED SO THAT TWO (2) OR MORE MODULES MAY BE JOINED TOGETHER TO FORM A COMPLETE STRUCTURE, TO MAINTAIN A POSITIVE ALIGNMENT OF FLOORS, WALLS, AND ROOF, AND TO PERMIT SIMPLE NON-DESTRUCTIVE DETACHMENT FOR FUTURE
- EACH MODULE SHALL BE PERMANENTLY IDENTIFIED WITH (2) IMPRINTED (STAMPED NOT ENGRAVED) METAL IDENTIFICATION TAGS 3"x1-1/2" MINIMUM SIZE WITH THE FOLLOWING INFORMATION:
- A. MANUFACTURER'S NAME AND BUILDING SERIAL NUMBER.
- B. DESIGN WIND SPEED / EXPOSURE C. DESIGN SEISMIC S_{DS} VALUE D. DESIGN ROOF LIVE LOAD & SNOW LOAD.
- E. DESIGN FLOOR LIVE LOAD F. D.S.A. APPLICATION NUMBER
- 2-TAGS PER MODULE: ONE ON EXTERIOR, AND ONE ON MODULE BEAM AT FRONT OF BUILDING ABOVE CEILING.
- EACH MODULE SHALL BE CAPABLE OF RESISTING ALL VERTICAL AND LATERAL LOADS DURING TRANSPORTATION AND RELOCATION. (NORMAL INDUSTRY PRACTICE FOR BRACING MODULES DURING TRANSPORTATION AND RELOCATIONS IS ACCEPTABLE.) WHEN MODULES ARE ASSEMBLED JOINTS SHALL BE SEALED WITH REMOVABLE CLOSING STRIPS OR OTHER METHOD TO PRESENT A FINISHED APPEARANCE AND BE PERMANENTLY WATERPROOF.
- EACH MODULE SHALL BE SUFFICIENTLY RIGID TO BE JACKED UP AT THE FRONT AND BACK CORNERS FOR RELOCATION WITHOUT DAMAGE OR THE MODULE SHALL HAVE LIFT LUGS AT FRONT AND BACK LOCATED AS REQUIRED SO THAT THE MODULE MAY BE JACKED UP FOR RELOCATION IN ONE PIECE WITHOUT ADDITIONAL SUPPORTS OF ANY TYPE. EVIDENCE OF EXCESSIVE BOWING DURING THE INSTALLATION OF THE MODULES WHICH, IN THE OPINION OF THE RDPRC, CAUSES EXCESSIVE WORKING AT ANY JOINT OR COMPROMISES THE STRUCTURAL INTEGRITY OF THE MODULE SHALL BE SUFFICIENT REASON FOR REJECTION OF THE MODULE.
- FINISH AND BASE MATERIALS AT EACH MODULE SHALL TERMINATE AT INTERIOR MODULE JOINTS IN A MANNER TO JOIN FLUSH AND TIGHT WITH SAME MATERIAL IN ADJACENT MODULE SO THE MODULE MAY BE RELOCATED WITH MINIMUM CUTTING AND PATCHING.

MARKERBOARD SPECIFICATIONS

MARKERBOARDS SHALL BE 24 GA. PORCELAIN STEEL FACING SHEET SUITABLE TO ACCEPT DRY ERASE FELT MARKERS. THE FACING SHEET SHALL BE LAMINATED TO PARTICLE BOARD SUBSTRATE WITH A MINIMUM DENSITY OF 45lbs./cu.ft. THE PANEL SHALL HAVE A FOIL BACKING. THE PANELS SHALL HAVE EXTRUDED ALUMINUM MOLDING AND CHALKRAIL WITH A MINIMUM OF 2 15/16" PROJECTION FROM THE FACE OF PANEL. HREE MAP HOOKS WITH CLIPS PER PANEL SHALL BE PROVIDED. ONE FLAG HOLDER. 1/2" SIZE, SHALL BE PROVIDED FOR EACH CLASSROOM. EACH CLASSROOM SHALL HAVE 2 EACH 4'x8' PANELS INSTALLED SIDE BY SIDE TO MAKE A 4'x16' PANEL, CENTERED ON

FOR ANCHORAGE DETAIL, SEE DETAIL 8/A4.0.

REFERENCE BRANDS: CHATFIELD-CLARKE Co, Inc. SERIES 500 OR NELSON ADAMS Co. NACO SERIES 60.

GENERAL NOTE

IT IS THE RESPONSIBILITY OF THE DESIGN PROFESSIONAL ON RECORD TO ENSURE THAT ALL SPECIFICATIONS MEET THE MINIMUM REQUIREMENTS OF THE CURRENT EDITION S OF THE CALIFORNIA STATE TITLES 19 AND 24. APPROVAL OF THESE SPECIFICATIONS DOES NOT CONSTITUTE APPROVAL FOR WAIVER OR ANY REQUIREMENTS OF THOSE REGULATIONS.

INTERIOR

- FLOOR COVERING: PER CBC SECTION 804, COMPLY WITH NFPA 253 CLASS I OR II. COMPLY WITH ASTM E 648 FOR SPECIFIC OPTICAL DENSITY SMOKE RATING NOT TO EXCEED 450. IN EXIT PASSAGEWAYS OR CORRIDORS, THE MINIMUM CRITICAL RADIANT FLUX (CBC 804.4.2) SHALL NOT BE LESS THAN CLASS II. (CARPET SHALL BE SECURELY ATTACHED, HAVE FIRM CUSHION, PAD OR BACKING, OR NONE AT ALL. PILE YARN SHALL BE BRANDED NYLON AND HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL-CUT PILE OR LEVEL-CUT/UNCUT PILE TEXTURE. THE MAXIMUM PILE HEIGHT SHALL BE 1/2" INCH. NO CROSS SEAMS SHALL BE ALLOWED. THE CARPET DENSITY SHALL BE 4600 MINIMUM. CARPET EDGE TRIM SHALL COMPLY WITH SECTION 11B-303. COLOR TO BE SELECTED BY THE RDPRC OR OWNER.)
- BASE: RESILIENT COVE BASE BEST QUALITY, MOULDED RUBBER, 1/8" THICK, 4" HIGH MOULDED TOP SET COVE. PROVIDE PREFORMED BASE FOR SQUARE EXTERNAL CORNERS AND PREFORMED END STOPS WHERE BASE DOES NOT ABUT. SOLID COLOR AS MANUFACTURE BY "JOHNSONITE CO.", FLEXCO, OR EQUAL. APPLY COVE TO COMPLETE PERIMETER OF CLASSROOM.
- INTERIOR WALLS SHALL BE VINYL COVERED TACKBOARD (U.O.N.) APPLIED IN ONE CONTINUOUS LENGTH FROM FLOOR TO CEILING. THE TACKBOARD SHALL BE INDUSTRIAL INSULATION BOARD MANUFACTURED SPECIFICALLY AS A SUBSTITUTE FOR VINYL COVERED WALL PANELS. THE BOARD SHALL BE ASPHALT FREE, SHALL HAVE AN IRONED-ON COATING AND SHALL HAVE A MINIMUM DENSITY OF 18 LBS. PER FOOT. THE VINYL COATING SHALL BE MADE OF VIRGIN VINYL CALENDERED BASE COLOR, WEIGHING A MINIMUM OF 8 OZ. PER SQUARE YARD. THE COATING BACKING SHALL BE SHEETING OR NON-WOVEN FABRIC. THE VINYL COATING SHALL BE MECHANICALLY LAMINATED, WITH THE LONG EDGES WRAPPED, TO THE TACKBOARD. TACKBOARD SHALL BE APPLIED OVER 1/2" SHEETROCK OR OSB SHEATHING. THE VINYL WALL COVERED PANEL SHALL HAVE A CLASS 'C' RATING (PER ASTM E 84 OR UL 723). FLAME SPREAD/SMOKE DEVELOPED INDEX MAXIMUMS PER NOTE #6 BELOW. THE PANEL SHALL BE APPROVED FOR CLASSROOM USE BY THE CALIFORNIA STATE FIRE MARSHAL. REFERENCE BRAND: VINYL COVERED TACKBOARD AS MANUFACTURED BY CHATFIELD-CLARKE OR COMPARABLE. CARE SHALL BE TAKEN IN MOUNTING THE TACKBOARD SO THAT THE TEXTURE OF ALL PANELS WILL HAVE THE SAME ORIENTATION AND COLOR MATCH. TACKBOARD FLAME SPREAD: 126.6 & SMOKE DEVELOPMENT: 45
- CEILING: SUSPENDED T-BAR SYSTEM, SEE SHEET M1.4 FOR DETAILS, MATERIALS AND INSTALLATION PER ASTM C635, ASTM C636, ASTM E580, AND DSA-IR 25-2.13 AS APPLICABLE TO CLASSROOMS. PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS LAY-IN PANELS. SQUARE EDGE. LIGHT REFLECTION 75% MINIMUM. NOISE REDUCTION COEFFICIENT OF 0.65 MINIMUM. ASTM E 84 TESTED, RATED CLASS 'C': FLAME SPREAD INDEX NOT TO EXCEED 200.
- SMOKE DEVELOPED INDEX RATING NOT TO EXCEED 450. THE INTERIOR ENVIRONMENT SHALL BE ASSEMBLED WITH PRODUCTS THAT CONTRIBUTE TO A HEALTHY INDOOR AIR QUALITY (IAQ). THE FOLLOWING SHALL COMPLY TITLE 24, PART 11 ("CAL-GREEN"), SECTION 5.504.4.
- (SEE SHEET N1.0, SECTION 9C "INTERIOR AIR QUALITY CONTROL") FLAME SPREAD/SMOKE-DEVELOPED INDEX (TESTED IN ACCORDANCE WITH ASTM E

84 OR UL 723, PER CBC 803.1.1): WALL FINISH MATERIAL (CLASS 'C') PIPE INSULATION (CLASS 'A') FLAME SPREAD MAX = 200 FLAME SPREAD MAX = 25 SMOKE DEVELOPED MAX = 450 SMOKE DEVELOPED MAX = 450 **DUCT INSULATION (CLASS 'A') BUILDING INSULATION (CLASS 'A'** FLAME SPREAD MAX = 25 AME SPREAD MAX = 25

SMOKE DEVELOPED MAX = 450 SMOKE DEVELOPED MAX = 50 TOILET PARTITIONS: SOLID PLASTIC BY ACCURATE PARTITIONS CORP. OR EQUIVALENT w/ FLOOR ANCHORS, OVERHEAD BRACED OR EQUIVALENT. MINIMUM FLAME SPREAD RATING: 50. MINIMUM SMOKE

DEVELOPMENT RATING: 450. (BY OTHERS) INTERIOR VENTILATION: EAVE VENTS AND ATTIC VENTS SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, PERFORATED VINYL OR SIMILAR MATERIAL WITH OPENINGS HAVING A LEAST DIMENSION OF NOT LESS THAN 1/16" AND NOT MORE THAN 1/4" INCH, PER C.B.C.

DOORS & WINDOWS

SECTION 1202.2.2.

- EXTERIOR DOORS: METAL DOORS 3'-0"x7'-0" HOLLOW METAL DOOR CONSTRUCTION OF 1 SHEET OF 18 GA. GRADE II STEEL ASSEMBLED PER CS242 MINIMUM, AND REINFORCED WITH 20 GA. MINIMUM. FILL DOOR SPACES WITH MINERAL WOOL OR OTHER INSULATION. (REINFORCE BOTH FACES FOR CLOSURE.) PROVIDE FLUSH TOP ON DOORS. HARDWARE REINFORCEMENT SHALL BE 10 GA. MIN FOR HINGES, DOOR FRAME SHALL BE 16 GA. PRESSED STEEL FRAME ASTM A366 & C5242. HARDWARE REINFORCEMENT SHALL BE 10 GA. PLATE. FRAMES SHALL BE DESIGNED WITH INTEGRAL STOP AND TRIM. PROVIDE (3) ANCHORS PER JAMB PLUS ADJUSTABLE FLOOR ANCHOR. ROOMS WITH AN OCCUPANT LOAD OF FIVE OR MORE SHALL HAVE DOOR HARDWARE CAPABLE OF BEING LOCKED FROM THE INSIDE (PER CBC 1010.1.11).
- EXTERIOR WINDOWS: PROVIDE ANODIZED ALUMINUM FRAME 5/8" MINIMUM DUAL PANE WINDOW UNITS, AS SHOWN ON FLOOR PLANS. THE 5/8" DIMENSION IS THE MINIMUM THICKNESS FOR THE DUAL GLAZED WINDOW PANEL CONSISTING OF TWO LITES OF GLASS AND THE AIR SPACE.
- GLAZING MATERIAL SHALL BE: EXTERIOR LITE 3/16" MINIMUM TEMPERED GLASS OR LAMINATED AS - 1 GLASS OF SOLAR GRAY GLARE REDUCING TYPE WITH A LIGHT TRANSMISSION FACTOR OF 45% MAXIMUM. INTERIOR LITE - 1/8" MINIMUM CLEAR TEMPERED. MINIMUM AIR SPACE SHALL BE 1/4" SPACE - BENT OR SEALED CORNER ALUMINUM WITH DESICCANT FILL SEALER - BUTYL PRIMARY SEAL AND POLYSULFIDE OR SILICONE SECONDARY SEAL. CERTIFICATION - ALL GLAZING TO BE CERTIFIED IN ACCORDANCE WITH ASTM E-773, E-774.
- HEADER HEIGHT SHALL BE THE SAME AS THE DOOR. ALL OPERABLE SASH SHALL HAVE ALUMINUM SCREENS. WINDOWS SHALL NOT BE MOUNTED TO THE EXTERIOR OSB SURFACE, ALL WINDOWS SHALL MEET THE AAMA GS101-88 VOLUNTARY SPEC. FOR ALUMINUM PRIME WINDOWS AND SLIDING GLASS (ANS1), COMMERCIAL GRADE WINDOWS TO MATCH WHAT IS REQUIRED BY ENERGY REPORT. IF WINDOWS MUST

BE NFRC RATED THAN NFRC LABELS SHALL BE LEFT ON THE WINDOWS FOR THE

MECHANICAL EQUIPMENT PROTECTION

INSPECTOR TO VERIFY.

ALL MECHANICAL EQUIPMENT SHALL BE THOROUGLY CLEANED PROGRESSIVELY DURING CONSTRUCTION AND COMPLETION OF THE JOB. ALL OPEN ENDS OF DUCTWORK AND EQUIPMENT SHALL BE COVERED AT END OF EACH WORK DAY AND DURING SHIPMENT OF RELOCATABLE BUILDINGS

FOUNDATION CLEARANCES FROM SLOPES

CBC 1808A.7.1 BUILDING CLEARANCE FROM ASCENDING SLOPES. IN GENERAL, BUILDINGS BELOW SLOPES SHALL BE SET A SUFFICIENT DISTANCE FROM THE SLOPE TO PROVIDE PROTECTION FROM SLOPE DRAINAGE, EROSION AND SHALLOW FAILURES. EXCEPT AS PROVIDED IN SECTION CBC 1808A.7.5 AND FIGURE CBC 1808A.7.1, THE FOLLOWING CRITERIA WILL BE ASSUMED TO PROVIDE THIS PROTECTION. WHERE THE EXISTING SLOPE IS STEEPER THAN ONE UNIT VERTICAL IN ONE UNIT HORIZONTAL (100-PERCENT SLOPE), THE TOE OF THE SLOPE SHALL BE ASSUMED TO BE AT THE INTERSECTION OF A HORIZONTAL PLANE DRAWN FORM THE TOP OF THE FOUNDATION AND A PLANE DRAWN TANGENT TO THE SLOPE AT AN ANGLE OF 45 DEGREES (0.79 RAD) TO THE HORIZONTAL. WHERE A RETAINING WALL IS CONSTRUCTED AT THE TOE OF THE SLOPE, THE HEIGHT OF THE SLOPE SHALL BE MEASURED FROM THE TOP OF THE WALL TO THE TOP OF THE

CBC 1808A.7.2 FOUNDATION SETBACK FROM DESCENDING SLOPE SURFACE FOUNDATIONS ON OR ADJACENT TO SLOPE SURFACES SHALL BE FOUNDED IN FIRM MATERIAL WITH AN EMBEDMENT AND SET BACK FROM THE SLOPE SURFACE SUFFICIENT TO PROVIDE VERTICAL AND LATERAL SUPPORT FOR THE FOUNDATION WITHOUT DETRIMENTAL SETTLEMENT. EXCEPT AS PROVIDED FOR IN SECTION CBC 1808A.7.5 AND FIGURE CBC 1808A.7.1, THE FOLLOWING SETBACK IS DEEMED ADEQUATE TO MEET THE CRITERIA. WHERE THE SLOPE IS STEEPER THAN 1 UNIT VERTICAL IN 1 UNIT HORIZONTAL 100-PERCENT SLOPE), THE REQUIRED SETBACK SHALL BE MEASURED FROM AN IMAGINARY PLANE 45 DEGREES (0.79 RAD) TO THE HORIZONTAL, PROJECTED UPWARD FROM THE TOE OF THE SLOPE.

FIRE EXTINGUISHER

EACH CLASSROOM SHALL BE EQUIPPED WITH PRESSURE TYPE FIRE EXTINGUISHERS WITH 2A10BC UL RATING. MOUNT ON THE INTERIOR WALL OF THE BUILDING NEAR THE DOORWAY(S) AT A MAXIMUM HEIGHT OF 4 FEET TO THE TOP OF THE OPERATING HANDLE, AND THE BOTTOM OF F.E. MOUNTED 27" OR LESS A.F.F. FIRE EXTINGUISHERS SHALL BE TOTALLY CHARGED AND HAVE A DIAL INDICATING THE STATE OF CHARGE

ACCESSIBILITY STANDARDS

REFERENCE: 2022 CALIFORNIA BUILDING CODE (TITLE 24, PART 2, CCR), CHAPTER 11B "ACCESSIBILITY TO PUBLIC..."

SECTION 11B-206.2 BUILDING ACCESSIBILITY, GENERAL AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ALL BUILDINGS, ELEMENTS, AND AREAS, AND EACH FLOOR INCLUDING MEZZANINES.

ALSO REFER TO SECTIONS 11B-703, 1009.9, 1009.10, 1023.9) SIGNAGE IS REQUIRED:

TO IDENTIFY PERMANENT ROOMS & SPACES TO PROVIDE DIRECTIONS AND INFORMATION ABOUT SPACES & FACILITIES TO IDENTIFY MEANS OF EGRESS A. AREAS OF REFUGE AND AREA FOR ASSISTED RESCUE (PER 1009.9 AND

B. DIRECTIONS TO AN EXIT (PER 1009.10) C. DELAYED EGRESS LOCKS (PER 1010.1.9.7 ITEM 6) D. EXIT WAYS (PER 1013.4) AT EACH GRADE LEVEL EXTERIOR EXIT DOOR AT AN EXIT BY MEANS OF A STAIRWAY OR RAMP ("EXIT STAIR

DOWN" OR "EXIT RAMP DOWN") AT AN EXIT ROUTE VIA ENCLOSURE, PASSAGEWAY, CORRIDOR, HALLWAY, ETC. OTHER HORIZONTAL WAYS WHERE THE EXIT OR EXIT PATH IS NOT

IMMEDIATELY VISIBLE (PER 1013.1) . TO IDENTIFY ACCESSIBLE PARKING SPACES TO IDENTIFY ENTRANCES OR ROUTE TO AN ACCESSIBLE ENTRANCE TO IDENTIFY ELEVATORS

TO IDENTIFY TOILET ROOMS B. TO IDENTIFY PUBLIC TELEPHONES, TTY and ASSISTIVE LISTENING SYSTEMS SIGNS, WHERE LOCATED WITHIN AN ACCESSIBLE ROUTE, MOUNTED LESS THAN 80"

ABOVE THE FINISHED FLOOR, MUST HAVE ROUNDED EDGES OR AN EASED RADIUS MINIMUM OF 0.125".

THE SWEEP PERIOD OF ACCESSIBLE DOORS SHALL BE 5 SECONDS MINIMUM, FROM AN OPEN DOOR POSITION OF 90 DEGREES, TO A DOOR POSITION OF 12° FROM THE LATCH.

SECTION 11B-404.2.9 DOOR OPENING FORCE THE EFFORT TO OPEN ANY DOOR SHALL NOT EXCEED 5LBS, EXCEPT FIRE DOORS, WHICH SHALL NOT EXCEED 15LBS FORCE. THE MINIMUM FORCE NEEDED SHALL BE USED.

SECTIONS 11B-404.2.4.3 RECESSED DOORS DOORS RECESSED 8" OR MORE SHALL HAVE STRIKE EDGE CLEARANCES IN ACCORDANCE WITH FIGURE 11B-404.2.4.3.

. THE CLEAR WIDTH OF A RAMP SHALL BE 48" MINIMUM.

THE TOP OF THE GRIPPING SURFACE OF HANDRAILS SHALL BE BETWEEN 34" AND

38", MEASURED VERTICALLY FROM WALKING SURFACES AND STAIR NOSINGS. HANDRAILS SHALL HAVE AT LEAST 1-1/2" CLEARANCE ALONG THE SIDE; MAX. 20% OBSTRUCTIONS ON THE BOTTOM (11B-505.6). HANDRAILS SHALL EXTEND BEYOND, AND IN THE SAME DIRECTION, OF STAIRS

SECTION 11B-606.4 WATER CONTROLS CONTROLS TO OPERATE A WATER FAUCET OR OUTLET SHALL BE A SINGLE-LEVER DESIGN, CAPABLE OF BEING OPERATED WITH A SINGLE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO OPERATE CONTROLS SHALL NOT EXCEED 5 LBS.

SECTION 11B-604 TOILET ROOMS AND BATHING ROOMS AN ACCESSIBLE TOILET STALL SHALL HAVE A MINIMUM WIDTH OF 60" AND SHALL BE EQUIPPED WITH A DOOR THAT HAS AN AUTOMATIC-CLOSING DEVICE, AND SHALL HAVE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32 INCHES WHEN LOCATED AT THE END AND 34 INCHES WHEN LOCATED AT THE SIDE, WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.

THE INSIDE AND OUTSIDE OF THE ACCESSIBLE COMPARTMENT DOOR SHALL BE EQUIPPED WITH A LOOP OR U-SHAPED HANDLE IMMEDIATELY BELOW THE LATCH. THE LATCH SHALL BE FLIP-OVER STYLE, SLIDING OR OTHER HARDWARE NOT REQUIRING THE USER TO GRASP OR TWIST. THE LATCH AND PULL SHALL COMPLY WITH 11B-404.2.7. MAXIMUM 5 LB FORCE TO ACTIVATE (11B-309.4). FXCEPT FOR DOOR-OPENING WIDTHS AND DOOR SWINGS, A CLEAR,

UNOBSTRUCTED ACCESS OF NOT LESS THAN 44 INCHES SHALL BE PROVIDED TO THE WATER CLOSET COMPARTMENTS DESIGNED FOR USE BY PERSONS WITH DISABILITIES. A 27"-29" MINIMUM DIMENSION IS REQUIRED FOR LAVATORY/SINK KNEE CLEARANCE, WHICH IS THE DISTANCE FROM THE FINISH FLOOR TO THE

UNDERSIDE OF THE LAVATORY/SINK AND THE LAV FRONT EDGE. TABLE 11B-604.9 SUGGESTS DIMENSIONS FOR CHILDREN'S USE. TOILET ACCESSORIES LOCATED IN THE CIRCULATION PATH AND WITH THE BOTTOM MOUNTED ABOVE 27" SHALL BE 4" DEEP MAX (11B-307.2).

OUTDOOR VENTILATION REQUIREMENTS

CLASSROOMS ARE DESIGNED FOR MINIMUM OUTSIDE AIR OF 0.38 CFM PER SF. PER THE CALIFORNIA ENERGY CODE (CEC), SPACES SHALL BE DESIGNED TO THE MINIMUM REQUIREMENTS AS SPECIFIED OR TO 15 CFM PER OCCUPANT, WHICHEVER IS GREATER. THE BUILDING MANUFACTURER SHALL VERIFY WITH THE SCHOOL DISTRICT THE EXPECTED NUMBER OF OCCUPANTS IN THE CLASSROOM SO THAT THE OUTDOOR VENTILATION RATE FOR MECHANICAL SYSTEMS CAN BE ADEQUATELY ADJUSTED UPON SITE INSTALLATION OF THE BUILDING. THE BUILDING MANUFACTURER SHALL ALSO CONFIRM WITH HVAC EQUIPMENT MANUFACTURER THAT THE SELECTED EQUIPMENT WILL BE ABLE TO PERFORM TO ACCOMMODATE THE ADDITIONAL OUTDOOR AIR REQUIREMENTS UNDER PEAK DESIGN CONDITIONS FOR THE CLIMATE ZONE IN WHICH THE BUILDING IS LOCATED. AT OCCUPANCY, THE BUILDING MANUFACTURER SHALL PROVIDE TO BUILDING OWNER A DESCRIPTION OF THE QUANTITIES OF OUTDOOR AND RECIRCULATED AIR THAT THE VENTILATION SYSTEMS ARE DESIGNED TO PROVIDE TO EACH AREA.

FIG. 1808A.7.1 FACE OF /STRUCTURE AT LEAST THE SMALLER OF H/3 AND 40 FFFT AT LEAST THE SMALLER OF H/2 AND 15 FEET FOR SI: 1 FOOT=304.8 MM.

METAL FLOOR DECK (CONTINUED) LIGHT GAUGE METAL STUDS & COLD FORMED STEEL

- ALL LIGHT GAUGE METAL STUDS & COLD FORMED STEEL SHALL BE FORMED FROM ASTM REFERENCE NUMBERS: ASTM A653, STEEL SHEET, ZINC-COATED STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF THE AISI S100-16. (GALVANIZED) OR ZINC-IRON ALLOY-COATED (GALVANEALED) BY THE HOT-DIP PROCESS STRUCTURAL (PHYSICAL) QUALITY. ALL GALVANIZED STUDS, JOISTS, TRACK, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A GALVANIZED COATING MEETING THE STEEL DECK INSTITUTE (SDI)-METAL FLOOR DECK PROFILES SHALL BE IN
- REQUIREMENTS OF ASTM A653. CUSTOM FORMED SHAPES SHALL BE BENT FROM ASTM A1011 SS STEEL SHEETS. STUD AND TRACK DESIGNATIONS ARE BASED ON STEEL STUD MANUFACTURERS ASSOCIATION. ICC-ES EVALUATION REPORT ESR-3064P.

GALVANIZED FRAMING PRODUCTS SHALL BE COATED IN ACCORDANCE WITH AISI

EQUIVALENT COATING IF SPECIFIED, AND SHALL BE IN CONFORMANCE WITH ASTM C-955, OTHERWISE, G-90 OR EQUIVALENT COATING WILL BE PROVIDED. WELDING OF LIGHT GAUGE METAL STUDS & COLD FORMED STEEL SHALL

COMPLY WITH AWS D1.3-08. ALL COLD-ROLLED MEMBERS FABRICATED BY AMS SHALL USE HOT-ROLLED SHEETS WITH THE FOLLOWING MIN. SPECIFICATIONS UNLESS NOTED OTHERWISE

S240-20, SECTION 20 A4. PRODUCTS WILL BE FURNISHED WITH A G-60 OR

| ی | | 3 WITH THE FOLLOWING IV | IIIN. SPECIFICATIONS UNL | LOS NOTED OTHE |
|---|-------|-------------------------|--------------------------|----------------|
| C | N THE | DRAWINGS. | | |
| | GA | MATERIAL | DESIGN THICKNESS | MIN. THICKNES |
| | 20 | A1011 SS Gr. 36 | 0.0346" | 0.0329" |
| | 18 | A1011 SS Gr. 36 | 0.0451" | 0.0428" |
| | 16 | A1011 SS Gr. 50 | 0.0566" | 0.0538" |
| | 14 | A1011 SS Gr. 45 | 0.0713" | 0.0677" |
| | 12 | A1011 SS Gr. 45 | 0.1017" | 0.0966" |
| | 10 | A1011 SS Gr. 50 | 0.1345" | 0.1278" |
| | | | | |

METAL FLOOR DECK SECTION PROPERTIES SHALL BE DERIVED IN ACCORDANCE WITH AISI, "SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS,

ABBREVIATION LEGEND

ASPHALT CONCRETE

AMERICAN CONCRETE INSTITUTE

ADJUSTABLE OR ADJACENT

AMERICAN WOOD COUNCIL

AMERICAN WELDING SOCIETY

AMERICAN WOOD PROTECTION

AMERICAN INSTITUTE OF STEEL

AMERICAN NATIONAL STANDARDS

AMERICAN PLYWOOD ASSOCIATION

AMERICAN SOCIETY FOR TESTING AND

AMERICAN IRON AND STEEL INSTITUTE

AIR CONDITIONING

ACCESSIBLE

ACOUSTICAL

ADDENDUM

ADDITIONAL

ALTERNATE

ALUMINUM

INSTITUTE

MATERIALS

ASSOCIATION

BUILDING

BLOCKING

BOUNDARY NAILING

BUILT UP ROOFING

CALIFORNIA BUILDING CODE

CALIFORNIA CODE OF REGULATIONS

COMPLETE JOINT PENETRATION

COMMUNITY NOISE EQUIVALENT LEVEL

DRINKING FOUNTAIN OR DOUGLAS FIR

CONCRETE MASONRY UNIT

BLOCK

BELOW

BEARING

BETWEEN

CABINET

CEMENT

CEILING

CLEAR

CATCH BASIN

CUBIC FOOT

CERAMIC TILE

CLEAN OUT

CONCRETE

CONNECTION

COUNTERSINK

CONTINUOUS

CENTERED

DOUBLE

DIAMETER

DIAGONAL

FACE OF

FACE OF CONCRETE

DIMENSION

DETAIL

COLD WATER

COLUMN

CONTROL JOINT

BEAM

BOT/BOTT BOTTOM

CONSTRUCTION

ARCHITECT(URAL)

ACOUS

ADD'L

ALUM

ANSI

ASTM

BLDG

BI W

BTWN

CONC

CONN

CONT

CTRD

LATEST EDITION." METAL DECKING IS TO BE ATTACHED TO THE STRUCTURAL FRAME IN CONFORMANCE WITH AWS D1.1 AND D1.3, "SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES."

FOCOL

FOF

FOP

FOS

FTG

FURR

GYP

HDR

HF

НМ

HT

HW

INSUL

LAM

LAV

LLV

LNDG

LONG

LW

MATL

MECH

MFG

MIR

MM

MTL

NW

OL

MISC

MAX

LB, LBS

HVAC

HDW

FRP

FACE OF COLUMN

FACE OF PLYWOOD

FIBERGLASS REINFORCED PLASTIC PANELS

FACE OF FINISH

FACE OF STUD

FURRED (-ING)

GYPSUM BOARD

GLASS OR GLAZING

GALVANIZED SHEET METAL

HOLLOW METAL (STEEL)

HOLLOW STRUCTURAL SECTION (STEEL)

INTERNATIONAL ASSOCIATION OF

INTERNATIONAL CODE COUNCIL

INTERPRETATION OF REGULATIONS

KIPS PER SQUARE INCH (KIPS = 1,000LBS)

INTERNATIONAL SYMBOL OF

ACCESSIBILITY/ACCESS

LONG LEG HORIZONTAI

LIGHT WEIGHT CONCRETE

LONG LEG VERTICAL

HEATING VENTILATING AIR CONDITIONING

PLUMBING AND MECHANICAL OFFICIALS

FOOTING

GAUGE

GYPSUM

HOSE BIBB

HEADER

HEM FIR

HEIGHT

INCH

INTERIOR

INVFRT

JOINT

LAMINATE(D

LAVATORY

POUND

I ANDING

LIGHT

LONGITUDINAL

LIGHT WEIGHT

MECHANICAL BOLT

MANUFACTURING

MANUFACTURER

MISCELLANEOUS

NOT IN CONTRACT

NORMAL WEIGHT

OUTSIDE DIAMETER

NATIONAL DESIGN SPECIFICATION

NORMAL WEIGHT CONCRETE

OPPOSITE HAND OR OVERHANG

MILLIMETER

MATERIAL

MAXIMUM

MINIMUM

MIRROR

OVER

ON CENTER

MECHANICAL

LAG SCREW

HOR/HORIZHORIZONTAL

HOLLOW CORE

HARDWOOD

HOT WATER

INSIDE DIAMETER

INSULATE (D), (ION)

GYP.BD. GYPSUM BOARD

GLV/GALV GALVANIZED

METAL FLOOR DECK TO BE ASC STEEL DECK PER IAPMO ER-0329: 1.1. BH-36, 18 GAUGE, $1\frac{1}{2}$ " DEEP x 36" WIDE

1.2. 3WxH-36, 18 GAUGE, 3" DEEP x 36" WIDE

CONFORMANCE WITH SDI STANDARDS.

- FASTENERS FOR ATTACHMENT TO STEEL SCREWS FOR STEEL TO STEEL & WOOD TO STEEL CONNECTIONS SHALL BE
- SELF-DRILLING, SELF-TAPPING SCREWS (SDSTS) PER ASTM C1513, UNO. 1.1 HEAD TYPE AS REQUIRED FOR APPLICATION.
- 1.2 SCREW LENGTHS TO HAVE 3 EXPOSED THREADS MIN. 1.3 CORROSION PROTECTION: INTERIOR USE SCREWS AND SCREWS THAT ARE PROTECTED FROM THE OUTSIDE ENVIRONMENT SHALL BE ELECTRO-ZINC PLATED MIN, UNO. EXTERIOR USE SCREWS THAT ARE EXPOSED TO THE OUTSIDE ENVIRONMENT SHALL BE ONE OF THE FOLLOWING, UNO:

DECK UNITS ARE TO BE FABRICATED FROM SHEET STEEL CONFORMING TO:

1.1. ASTM A653 SS, F_Y =50 KSI WITH A GALVANIZED COATING, G-60 OR G-90.

- A. ITW BUILDEX TEKS SELF-DRILLING TAPPING SCREWS WITH CLIMASEAL COATING PER ICC ESR-1976.
- B. HILTI SELF-DRILLING AND SELF-PIERCING TAPPING SCREWS WITH KWIK-COTE COATING PER ICC ESR-2196. C. GRABBER SELF-DRILLING TAPPING SCREWS WITH GRABBERGARD COATING PER ICC ESR-1271.
- SHOT PINS SPECIFIED FOR PLYWOOD DIAPHRAM TO LIGHT GAUGE STEEL CONNECTIONS SHALL BE ET&F PINS PER IAPMO UES REPORT ER-0335.
- SHOT PINS FOR ATTACHMENT OF 2X WOOD OR LIGHT GAUGE STEEL MEMBERS TO STRUCTURAL STEEL OR CONCRETE SHALL BE BY HILTI UNO.

RISER

REQ'D/REQ REQUIRED

RD

RFF

RFFR

RFINE

RES

RDWD

SDSTS

SHTG

SSMA

STAGG

STN

STD

STL

STS

STSMS

TEMP

THRU

TOP

TOS

TOW

TS

TYP

UON

VCTB

VERT

VOC

VFY

VWC

WSCT

TRANS

SEP

SCH/SCHED

RDPRC

ROOF DRAIN

REDWOOD

RESILIENT

REDWOOD

SECTION

SHEET

SIMII AR

SEPARATION

SHEATHING

SQUARE FEET

REFERENCE

REINFORCING

REFRIGERATOR

RESPONSIBLE CHARGE

RAIN WATER LEADER

SCHEDULE

SHEET METAL SCREW

STRUCTURAL PLYWOOD

SELF TAPPING SCREW

TONGUE AND GROOVE

TOP AND BOTTOM

TOP OF PARAPET

TOP OF SHEATHING

UNLESS OTHERWISE NOTED

UNLESS NOTED OTHERWISE

VINYL COMPOSITION TILE

VINYL COVERED TACKBOARD

VOLATILE ORGANIC COMPOUND(S)

STEEL STUD MANUFACTURERS

SELF TAPPING SHEET METAL SCREW

TOP OF CURB, CRICKET, OR CONCRETE

TOP OF SLAB, SHEATHING, OR STEEL

SLAB-ON-GRADE

SPECIFICATIONS

STAINLESS STEE

ASSOCIATION

STAGGERED

STANDARD

TEMPERED

THROUGH

TOOL JOINT

TOP OF WALL

TRANSVERSE

TELEVISION

TYPICAL

VERTICAL

WOOD

WINDOW

WITHOUT

WAINSCOT

ANGLE

WIDE FLANGE

WOODSCREW

CENTER LINE

MODULE LINE

PLUS/MINUS

DIAMETER

DEGREES

VERIFY IN FIELD

VINYL WALL COVERING

WELDED WIRE FABRIC

STAIN

STEEL

SELF-DRILLING, SELF-TAPPING SCREW

STORM DRAIN



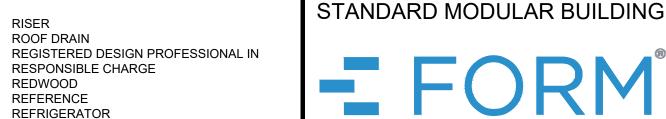
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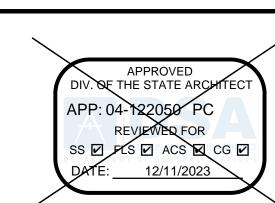
TAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADE



SITE SPECIFIC PROJECT NAME

RE-CHECKED SET NAME

PLEASANT VIEW USD PLEASANT VIEW ELEMENTARY (1) 108' x 40' BUILDING





| THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD. | | | | |
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| SCALE: | AS NOTED | | | |
| DATE: | 06/20/2023 | | | |
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SHEET TITLE: GENERAL NOTES

SHEET NUMBER:

ART FREILER ELEMENTARY SCHOOL **2421 W LOWELL AVE**

PROJECT: ART FREILER ES - TK CLASSROOM

TRACY. CA 95377

GENERAL NOTES & SPECIFICATIONS

DATE: 04/03/24 CLIENT PROJ NO: 359500100

EXPOSURE EXTERIOR FAHRENHEIT **FUTURE FABRICATION** FACTORY FLOOR DRAIN FINISHED FLOOR FINISHED GRADE FLAT HEAD WOOD SCREW FLOOR FLSHG FLASHING FIELD NAILING FND/FNDN FOUNDATION

DIVISION DOWNSPOU DIVISION OF THE STATE ARCHITECT DRAWING EXISTING **EXPANSION JOINT** ELEVATION ELECT ELECTRICAL **EMBED EMBEDMENT ELECTRICAL MAGNETIC TUBING** EDGE NAILING (OR EDGE FASTENING)

OCCUPANT LOAD OPG OPENING ET CETERA OPPOSITE OPP EQUAL ORIENTED STRAND BOARD EACH WAY OSB POWER-ACTUATED FASTENER PROPERTY LINE PLAM PLAS PLF PLT PLATE

PLASTIC LAMINATE PLASTER POUNDS PER LINEAR FOOT PLWD/PLY PLYWOOD PNL PANFI POC POINT OF CONNECTION PRODUCT STANDARD POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH

PTN

PVC

PARALLEL STRAND LUMBER PSL

POLYVINYL CHLORIDE

PRESSURE TREATED PRESERVATIVE TREATED DOUGLAS FIR PTDF PARTITION

PLEASE RECYCLE

SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24 INCHES

BETWEEN 34 INCHES (864 MM) AND 80 INCHES (2032 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES (102 MM).

TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 lbs. MAX.

DOORS SHALL BE OPERABLE FROM INSIDE WITH A SINGLE MOTION W/O THE USE OF ANY TOOLS, EFFORT, OR SPECIAL KNOWLEDGE.

D) THE ENDS OF THE CROSS-BAR SHALL BE CURVED, GUARDED OR OTHERWISE DESIGNED TO PREVENT CATCHING ON THE CLOTHING OF

*ADDITIONAL DOORS MAY BE REQUIRED BASED ON BUILDING LAYOUT.

EMERGENCY EXIT AND PANIC HARDWARE SHALL COMPLY WITH SFM STANDARD 12-10-3, SECTION 12-10-302

A) THE CROSS-BAR SHALL EXTEND ACROSS NOT LESS THAN ONE-HALF THE WIDTH OF THE DOOR/GATE

(11B-404.2.7, 11B-309.4)

DOOR HARDWARE SCHEDULE

EMERGENCY EXIT AND PANIC HARDWARE

CLEAR OPENING WIDTH LOWER THAN 34 INCHES (864 MM) ABOVE THE FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WIDTH

1. IN ALTERATIONS, A PROJECTION OF 5/8 INCH (15.9 MM) MAXIMUM INTO THE REQUIRED CLEAR WIDTH SHALL BE PERMITTED FOR THE LATCH

2. DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES (1981 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

HANDLES, PULLS, LATCHES, LOCKS AND OTHERS OPERABLE PARTS ON DOORS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE

INTERIOR PASSAGE COPPER CREEK 6220-PASSAGE w/ LEVER

INTERIOR RESTROOM COPPER CREEK 6231-RESTROOM w/ LEVER

INTERIOR ENTRY/OFFICE COPPER CREEK 6241-ENTRY/OFFICE w/ LEVER

MULTI-ACCOMODATION RESTROOM LOCK

S SCHLAGE ND85PD - SINGLE USER RESTROOM LOCK

BUTTS, BB1279 US26D, 1-1/2 PAIR PER DOOR, WITH SET SCREW IN BARREL AND BALL BEARING DESIGN.

OR 8500BF SERIES, LCN 1460 DEL SERIES OR EQUAL. (5 LBS. MAX. PRESSURE) ALL SCHLAGE HARDWARE IS

ERIOR DOORS SHALL BE WEATHERSTRIPPED WITH PEMKO 299D, ULTRA WS007 OR EQUAL, AT DOOR JAMBS AND HEAD.

INTERIOR TEACHERS' MANUAL LOCK FOR CAMPUS LOCK DOWN CRITERIA - REQUIRED FOR STATE-FUNDED SCHOOLS, PER EDUCATION CODE SECTION 17075.50 (AND ALSO CBC 1010.1.11): PROVIDE LOCKS THAT ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANCY OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. LOCKS SHALL COMPLY WITH

GE ND80PD - STOREROOM LOCK

ESHOLD SHALL BE PEMKO 271 AV 5" ALUMINUM WITH PEMKO 216 AV ULTRA TH042 DOOR BOTTOM.

INTERIOR STOREROOM COPPER CREEK 6250-STOREROOM w/ LEVER

INTERIOR CLASSROOM COPPER CREEK 6260-CLASSROOM w/ LEVER

EXTERIOR DOOR LOCKSET w/LEVER RHODES SCHLAGE ND705

C.B.C. SECTION 1010.1.9.

EXTERIOR DOOR LOCKSET w/LEVER & PUSH BUTTON R

EXTERIOR DOOR LOCKSET w/LEVER RHODES SE

XTERIOR DOOR HARDWARE

CLOSER:

THRESHOLD:

LOCKDOWN:

ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE **TRACY. CA 95377** PROJECT: ART FREILER ES - TK CLASSROOM TYPICAL SCHEDULES: DOORS, WINDOWS & FINISHES

RAWN BY:

PROJECT NO:

SHEET TITLE:

SHEET NUMBER:

AA

AS NOTED

MM/DD/YY

XXXX-22

NRVED, GUARDED OR OTHERWISE DESIGNED TO PREVENT CATCHING ON THE CLOTHING OF

EMERGENCY EXIT AND PANIC HARDWARE

(B) THE ENDS OF THE CROSS BAR SHALL PERSONS DURING EGRESS.

TYPICAL SCHEDULES - DOORS, WINDOWS & FINISHES

CLIENT PROJ NO: 359500100 DATE: 04/03/24

PLEASE RECYCLE 🖧

| 17 | EDGES AND VERTICES ON GEOMETRIC SYMBOLS | 18 | DEVICE MOUNTING OVER OBSTRUCTION DETAIL | 19 |

TYPICAL CLASSROOM SIGNAGE LOCATION

PLEASE RECYCLE 🗟

SHEET NOTES

A CZ01 Arcata
CZ16 Blue Canyon
CZ02 Santa Rosa
CZ03 Oakland
CZ04 San Jose-Reid

CZ05 Santa Maria
CZ06 Torrance CZ07 San Diego-Lindbergh

CZ09 Burbank-Glendale CZ10 Riverside CZ11 Red Bluff

D CZ15 Palm Spring-Intl

CZ03 Oakland

B CZ04 San Jose-Reid

CZ06 Torrance CZ07 San Diego-Lindbergh

CZ10 Riverside CZ11 Red Bluff

CZ12 Sacramento

D CZ15 Palm Spring-Intl

A CZ16 Blue Canyon

CZ04 San Jose-Reid CZ05 Santa Maria
CZ06 Torrance CZ07 San Diego-Lindbergh

CZ10 Riverside CZ11 Red Bluff CZ12 Sacramento

CZ14 Palmdale

A CZ01 Arcata
CZ16 Blue Canyon
CZ02 Santa Rosa

B CZ03 Oakland CZ04 San Jose-Reid

CZ05 Santa Maria
CZ06 Torrance CZ07 San Diego-Lindbergh CZ08 Fullerton CZ09 Burbank-Glendale

CZ10 Riverside CZ11 Red Bluff

CZ12 Sacramento CZ13 Fresno

D CZ15 Palm Spring-Intl

A CZ01 Arcata
CZ16 Blue Canyon

CZ03 Oakland

CZ05 Santa Maria
CZ06 Torrance CZ07 San Diego-Lindbergh CZ09 Burbank-Glendale

CZ11 Red Bluff

D CZ15 Palm Spring-Intl

CZ03 Oakland

CZ05 Santa Maria
CZ06 Torrance CZ07 San Diego-Lindbergh

CZ11 Red Bluff CZ12 Sacramento CZ13 Fresno

D CZ15 Palm Spring-Intl

CZ05 Santa Maria

CZ11 Red Bluff

CZ12 Sacramento

D CZ15 Palm Spring-Intl

CZ13 Fresno

A CZ01 Arcata
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B CZ03 Oakland CZ04 San Jose-Reid

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D CZ15 Palm Spring-Intl

CZ07 San Diego-Lindbergh

CZ09 Burbank-Glendale

CZ07 San Diego-Lindbergh

CZ09 Burbank-Glendale

CZ07 San Diego-Lindbergh

CZ09 Burbank-Glendale

CZ12 Sacramento CZ13 Fresno CZ14 Palmdale

D CZ15 Palm Spring-Intl



DATE



HMC Architects

3595001000

2101 CAPITOL AVENUE, SUITE 100 SACRAMENTO, CA 95816

916 368 7990 / www.hmcarchitects.com

△ **DESCRIPTION**

KEYNOTES

GENERAL NOTES

CBC PRE-CHECK (PC) DOCUMENT

DRAWN BY: AA AS NOTED MM/DD/YY

PROJECT NO: SHEET TITLE:

ENERGY CALCULATIONS SUMMATION SHEET

SHEET NUMBER:

| | | | REVIEW IN | FORMATION ergy Code | | | | | SN REVIEW I -2022, Part 6, E | NFORMATION | J | | | | | I REVIEW IN | IFORMATION | I | | | | | | INFORMATION Energy Code | 1 | | |
|-------------|---|-----------------------------------|------------------------|------------------------|------------------------------------|------|----------------------------------|----------------------------|---------------------------------|------------------------|------------------------|--------------------------|-------------|---|-----------------------------------|------------------------|------------------------|---------------------------------------|--------------------------|-------------|--|-----------------------------------|------------------------|----------------------------|----------------------|--|--|
| | Model Name and Option Total Floor Area | n: AMS 24x40 | | ulation Date/Time o | f Energy Report: 9/3/ | 023 | Model Name an Total Fl | | | culation Date/Time | of Energy Repo | | | Model Name and Option Total Floor Area | n: AMS 48x40 | | | of Energy Report: DSA Application: | 9/3/2023 | | Model Name and Option: Total Floor Area | : PC 60x40 | | lculation Date/Time | of Energy Repo | | |
| CZ | HVAC System Type Climate Zone 16 | | Standard | Proposed | | | HVAC System CZ Climate Zone | 16 | Standard | Proposed | | | CZ | HVAC System Type Climate Zone 16 | | Standard | Proposed | | | CZ | HVAC System Type. Climate Zone 16 | | Standard | Proposed | | | |
| Group | Blue Canyon | Metric TDV-E | Design 289.3 | Design 248.3 | Margin Wors 40.9 | | oup Blue Canyo | Metric TDV-E | Design 279.4 | Design 230.9 | Margin 48.5 | Worst Case | Group | Blue Canyon | Metric TDV-E | Design 267.2 | Design 221.6 | Margin 45.6 | Worst Case | Group | Blue Canyon | Metric TDV-E | Design 263.0 | Design 221.7 | Margin 41.3 | Worst Case | |
| | 30° | TDV-T SOURCE | 289.3 39.0 | 248.3 23.7 | 40.9 15.3 | | 30° | TDV-T SOURCE | 279.4 36.4 | 230.9 21.5 | 48.5 14.9 | | | 30° | TDV-T SOURCE | 267.2 34.0 | 221.6 21.0 | 45.6 13.1 | | | 30° | TDV-T SOURCE | 263.0 33.4 | 221.7 20.5 | 41.3 12.9 | | |
| | 75° | TDV-E TDV-T SOURCE | 295.8 295.8 39.2 | 249.3 249.3 23.8 | 46.6 46.6 15.4 | | 75° | TDV-E TDV-T SOURCE | 291.1 291.1 36.7 | 231.3 231.3 21.5 | 59.9 59.9 15.2 | | | 75° | TDV-E TDV-T SOURCE | 277.2 277.2 34.5 | 223.4 223.4 21.1 | 53.8 53.8 13.4 | | | 75° | TDV-E TDV-T SOURCE | 275.0 275.0 33.8 | 224.0 224.0 20.7 | 51.0 51.0 13.1 | | |
| - | 120° | TDV-E TDV-T | 291.8 291.8 | 249.2 249.2 | 42.6 42.6 | | 120° | TDV-E | 278.0 278.0 | 230.1 230.1 | 47.8 47.8 | | | 120° | TDV-E TDV-T | 268.7 268.7 | 223.4 223.4 | 45.3 45.3 | | | 120° | TDV-E TDV-T | 262.7 262.7 | 223.3 223.3 | 39.4 39.4 | | |
|] | | SOURCE TDV-E | 39.0 275.6 | 23.8 247.9 | 15.2 27.7 Wors | | | SOURCE TDV-E | 35.9 269.3 | 21.4 227.8 | 14.5 41.4 | | | | SOURCE TDV-E | 34.1 254.1 | 21.2 221.1 | 13.0 33.0 | Worst Case | | | SOURCE TDV-E | 33.2 254.0 | 20.6 219.8 | 12.5 34.1 | | |
| Α | 165° | TDV-T SOURCE TDV-E | 275.6 38.3 292.8 | 247.9 23.7 248.9 | 27.7 Wors 14.7 Wors 43.9 | | 165° | TDV-T SOURCE TDV-E | 269.3 35.5 278.3 | 227.8 21.2 229.1 | 41.4 14.3 49.2 | | Α | 165° | TDV-T SOURCE TDV-E | 254.1 33.5 271.8 | 221.1 21.0 222.1 | 33.0 12.5 49.6 | Worst Case Worst Case | Α | 165° | TDV-T SOURCE TDV-E | 254.0 32.7 262.1 | 219.8 20.3 221.0 | 34.1 12.4 41.2 | | |
| | 210° | TDV-T SOURCE | 292.8 39.2 | 248.9 23.8 | 43.9 15.4 | | 210° | TDV-T SOURCE | 278.3 36.1 | 229.1 21.3 | 49.2 14.8 | | | 210° | TDV-T SOURCE | 271.8 34.3 | 222.1 222.1 21.0 | 49.6 13.3 | | | 210° | TDV-T SOURCE | 262.1 33.2 | 221.0 221.0 20.4 | 41.2 41.2 12.9 | | America |
| = | 255° | TDV-E TDV-T | 302.1 302.1 | 249.0 249.0 | 53.0 53.0 | | 255° | TDV-E TDV-T SOURCE | 279.5 279.5 36.0 | 231.0 231.0 21.5 | 48.5 48.5 14.6 | | | 255° | TDV-E TDV-T | 283.5 283.5 | 223.4 223.4 | 60.1 60.1 | | | 255° | TDV-E TDV-T | 270.8 270.8 | 223.8 223.8 | 47.0 47.0 | | 787 Sprec Phone (209 |
| | 300° | SOURCE TDV-E TDV-T | 39.4 291.2 291.2 | 23.8 248.3 248.3 | 15.7 42.9 42.9 | | 300° | TDV-E | 275.1 275.1 | 231.6 231.6 | 43.5 43.5 | | | 300° | SOURCE TDV-E TDV-T | 34.7 271.8 271.8 | 21.1 222.8 222.8 | 13.6 49.0 49.0 | | | 300° | SOURCE TDV-E TDV-T | 33.6 263.9 263.9 | 20.6 223.8 223.8 | 13.0 40.1 40.1 | | www |
| | | SOURCE TDV-E | 38.9 279.9 | 23.7 246.9 | 15.2 32.9 | | | SOURCE TDV-E | 35.9 261.8 | 21.6 230.0 | 14.3 31.7 | Worst Case | | | SOURCE TDV-E | 34.1 258.1 | 21.1 220.2 | 13.0 37.9 | | | | SOURCE TDV-E | 33.3 251.6 | 20.7 220.7 | 12.6 30.9 | Worst Case | INTELLECTUAL-PROP |
| | 345° | TDV-T SOURCE | 279.9 38.3 | 246.9 23.6 | 32.9 14.8 | | 345° | TDV-T SOURCE Azimuth | 261.8 35.5 | 230.0 21.4 | 31.7 14.1 | Worst Case Worst Case | | 345° | TDV-T SOURCE | 258.1 33.4 | 220.2 20.9 | 37.9 12.6 | | | 345° | TDV-T SOURCE Azimuth | 251.6 32.7 | 220.7 20.4 | 30.9 12.3 | Worst Case Worst Case | COPYRIGHT © AMS OWNS ALL COPYRIGHT A |
| CZ Group | Climate Zone 05 Santa Maria | Azimuth (Front Orientation) | Standard Design | Proposed Design | Margin Wors | | CZ Climate Zone oup Santa Mar | a (Front Orientation | / | Proposed Design | Margin | Worst Case | CZ Group | Climate Zone 05 Santa Maria | Azimuth (Front Orientation) | Standard Design | Proposed Design | Margin | Worst Case | CZ Group | Climate Zone 05 Santa Maria | (Front Orientation) | Standard Design | Proposed Design | Margin | Worst Case | RIGHTS IN THESE DRAWINGS, CERTAIN ELEMENTS SHOWN IN AMS. ALL PATENTABLE MATERI |
|] | 30° | TDV-E TDV-T SOURCE | 201.7 201.7 19.0 | 128.7 128.7 | 73.0 73.0 | | 30° | TDV-E TDV-T SOURCE | 189.1 189.1 17.8 | 111.0 111.0 11.4 | 78.1 78.1 6.3 | | | 30° | TDV-E TDV-T SOURCE | 190.3 190.3 17.6 | 120.3 120.3 12.1 | 70.0 70.0 5.5 | | | 30° | TDV-E TDV-T SOURCE | 185.2 185.2 17.2 | 120.4 120.4 11.7 | 64.8 64.8 5.5 | | WITH AMS WILL REMAIN THE SC AND THE MATERIAL CONTAII COPIED, DISTRIBUTED, MO |
| | 75° | TDV-E TDV-T | 202.2 | 13.1 128.4 128.4 | 5.9 73.8 73.8 | | 75° | TDV-E TDV-T | 189.2 189.2 | 110.0 110.0 | 79.1 79.1 | | | 75° | TDV-E TDV-T | 190.3 190.3 | 120.2 120.2 | 70.2 70.2 | | - | 75° | TDV-E TDV-T | 185.3 185.3 | 120.6 120.6 | 64.7 64.7 | | INDIRECTLY) AND MAY NO CONSTRUCTION, DESIGN, OR O ANY INFORMATION FOR THE |
| - | | SOURCE TDV-E | 19.1 222.5 | 13.1 128.0 | 5.9 94.5 | | | SOURCE TDV-E | 17.8 181.1 | 11.3 109.6 | 6.4 71.5 | Worst Case | | | SOURCE TDV-E | 17.6 211.2 | 12.1 119.4 | 5.5 91.7 | | | | SOURCE TDV-E | 17.2 177.1 | 11.8 120.0 | 5.5 57.2 | Worst Case | BUILDINGS (MODULAR OF APPARATUS, OR PARTS THE CONSENT OF, OR IN A WRITTEN |
| - | 120° | TDV-T SOURCE TDV-E | 222.5 20.8 220.0 | 128.0 13.1 | 94.5 7.7 | | 120° | TDV-T SOURCE TDV-E | 181.1 17.0 188.8 | 109.6 11.3 109.6 | 71.5 5.8 79.2 | Worst Case Worst Case | | 120° | TDV-T SOURCE TDV-E | 211.2 19.4 208.0 | 119.4 12.1 118.9 | 91.7 7.3 89.1 | | | 120° | TDV-T SOURCE TDV-E | 177.1 16.5 180.8 | 120.0 11.7 119.1 | 57.2 4.8 61.7 | Worst Case Worst Case | MEET OFFICIAL REGULATORY F IN DEROGATION OF AMS'S |
| В | 165° | TDV-E TDV-T SOURCE | 220.0 220.0 20.6 | 127.8 127.8 13.1 | 92.2 92.2 7.5 | | 165° | TDV-T SOURCE | 188.8 17.8 | 109.6 11.3 | 79.2 6.5 | | В | 165° | TDV-T SOURCE | 208.0 19.2 | 118.9 12.0 | 89.1 7.1 | | В | 165° | TDV-E TDV-T SOURCE | 180.8 16.9 | 119.1 11.6 | 61.7 5.2 | | PRE-CHECKED SET NA |
| В | 210° | TDV-E TDV-T | 197.3 197.3 | 128.6 128.6 | 68.7 68.7 | | 210° | TDV-E TDV-T | 197.2 197.2 18.4 | 111.1 | 86.1 86.1 7.1 | | В | 210° | TDV-E TDV-T | 185.6 185.6 | 120.0 120.0 | 65.6 | Worst Case Worst Case | В | 210° | TDV-E TDV-T | 188.2 188.2 | 120.4 120.4 | 67.8 67.8 | | 24' x 4 |
| | 255° | SOURCE TDV-E TDV-T | 18.6 197.0 197.0 | 13.2 127.6 127.6 | 5.5 69.4 69.4 | | 255° | SOURCE TDV-E TDV-T | 192.9 192.9 | 11.4 110.6 110.6 | 82.3 82.3 | | | 255° | SOURCE TDV-E TDV-T | 17.2 215.6 215.6 | 12.1 119.4 119.4 | 5.1 96.2 96.2 | Worst Case | | 255° | SOURCE TDV-E TDV-T | 17.4 187.9 187.9 | 11.7 120.8 120.8 | 5.7 67.1 67.1 | | STANDARD |
| - | 255 | SOURCE TDV-E | 18.6 | 13.1 127.2 | 5.5 91.3 | | | SOURCE TDV-E | 18.1 183.4 | 11.3 110.1 | 6.7 73.2 | | | | SOURCE TDV-E | 19.7 206.5 | 12.0 119.0 | 7.7 87.5 | | | 200 | SOURCE TDV-E | 17.4 178.7 | 11.7 120.1 | 5.7 58.6 | | (L0 |
|] | 300° | TDV-T SOURCE | 218.4 | 127.2 13.0 | 91.3 7.4 | 0 | 300° | TDV-T SOURCE TDV-E | 183.4 17.3 182.8 | 110.1 11.4 110.1 | 73.2 5.9 72.7 | | | 300° | TDV-T SOURCE TDV-E | 206.5 19.0 211.8 | 119.0 12.0 118.8 | 87.5 7.0 93.0 | | | 300° | TDV-T SOURCE | 178.7 16.7 178.4 | 120.1 11.7 119.1 | 58.6 4.9 | | 1 [|
| | 345° | TDV-E TDV-T SOURCE | 193.7 193.7 18.3 | 127.5 127.5 13.1 | 66.3 Wors 66.3 Wors 5.3 Wors | Case | 345° | TDV-T SOURCE | 182.8 | 110.1 11.4 | 72.7 5.9 | | | 345° | TDV-T SOURCE | 211.8 19.4 | 118.8 12.0 | 93.0 7.4 | | , | 345° | TDV-E TDV-T SOURCE | 178.4 16.7 | 119.1 119.1 11.7 | 59.2 59.2 5.0 | | |
| CZ Group | Climate Zone 13 Fresno | Azimuth (Front Orientation) | Standard Design | Proposed Design | Margin Wors | 0 | CZ Climate Zone oup Fresno | Azimuth (Front Orientation | Standard Design | Proposed Design | Margin | Worst Case | CZ Group | Climate Zone 13 Fresno | Azimuth (Front Orientation) | Standard Design | Proposed Design | Margin | Worst Case | CZ Group | Climate Zone 13 Fresno | Azimuth (Front Orientation) | Standard Design | | Margin | Worst Case | SITE SPECIFIC PROJEC |
| | 30° | TDV-E TDV-T | 315.5 315.5 | 235.7 235.7 | 79.8 79.8 | | 30° | TDV-E TDV-T | 208.0 208.0 | 171.9 171.9 | 36.0 36.0 | | | 30° | TDV-E TDV-T | 296.6 296.6 | 221.7 221.7 | 74.9 74.9 | | | 30° | TDV-E TDV-T | 289.6 289.6 | 216.0 216.0 | 73.6 73.6 | | 6172 61 2611 16 1 116326 |
| - | | SOURCE TDV-E | 25.0 325.9 | 17.9 238.3 | 7.1 87.6 | | 75° | SOURCE TDV-E TDV-T | 15.1 204.9 204.9 | 12.4 174.9 174.9 | 2.7 30.0 30.0 | Worst Case Worst Case | | 750 | SOURCE TDV-E | 23.2 307.3 | 16.7 225.9 | 6.5 81.4 | | | | SOURCE TDV-E | 22.8 | 16.0 221.0 | 6.8 78.1 | | |
| | 75° | TDV-T SOURCE TDV-E | 325.9 25.8 321.2 | 238.3 18.0 237.8 | 87.6 7.8 83.5 | | 75 | SOURCE TDV-E | 15.2 212.4 | 12.4 174.1 | 2.8 | vvoist ouse | | 75° | TDV-T SOURCE TDV-E | 307.3 24.0 301.6 | 225.9 16.9 224.8 | 81.4 7.1 76.8 | | | 75° | TDV-T SOURCE TDV-E | 299.1 23.4 294.2 | 221.0 16.2 220.1 | 78.1 7.2 74.1 | | |
| | 120° | TDV-T SOURCE | 321.2 25.5 | 237.8 18.0 | 83.5 7.5 | | 120° | TDV-T SOURCE | 212.4 15.1 | 174.1 12.4 | 38.3 2.7 | | | 120° | TDV-T SOURCE | 301.6 23.6 | 224.8 16.9 | 76.8 6.7 | | | 120° | TDV-T SOURCE | 294.2 23.1 | 220.1 16.2 | 74.1 6.9 | | |
|] | 165° | TDV-E TDV-T SOURCE | 298.7 298.7 23.7 | 233.8 233.8 17.8 | 64.9 Wors 64.9 Wors 5.9 Wors | Case | 165° | TDV-E TDV-T SOURCE | 286.8 286.8 22.7 | 169.6 169.6 12.1 | 117.2 117.2 10.6 | | | 165° | TDV-E TDV-T SOURCE | 280.3 280.3 21.9 | 219.2 219.2 16.6 | 61.2 61.2 5.4 | Worst Case | | 165° | TDV-E TDV-T SOURCE | 274.9 274.9 21.7 | 213.8 213.8 15.8 | 61.1 61.1 5.9 | Worst Case Worst Case Worst Case | |
| | 210° | TDV-E TDV-T | 311.0 311.0 | 235.6 235.6 | 75.5 75.5 | Case | 210° | TDV-E TDV-T | 211.9 211.9 | 172.9 172.9 | 39.0 39.0 | | C | 210° | TDV-E TDV-T | 291.7 291.7 | 221.2 221.2 | 70.5 70.5 | vvoist oddc | C | 210° | TDV-E TDV-T | 290.9 290.9 | 216.2 216.2 | 74.6 74.6 | VVOIST GUSC | |
| - | 0550 | SOURCE TDV-E | 24.7 318.8 | 17.9 237.5 | 6.8 81.3 | | 255° | SOURCE TDV-E TDV-T | 15.3 207.4 207.4 | 12.4 177.3 177.3 | 2.9 30.1 30.1 | | | 255° | SOURCE TDV-E | 22.9 300.3 300.3 | 16.8 224.7 | 6.2 75.6 | | | OFF° | SOURCE TDV-E | 22.9 301.8 | 16.0 221.7 | 6.9 80.1 | | DIV |
| _ | 255° | TDV-T SOURCE TDV-E | 318.8 25.2 315.2 | 237.5 17.9 236.6 | 81.3 7.2 78.6 | | 200 | SOURCE TDV-E | 15.4 214.5 | 12.5 176.4 | 2.9 | | | 255° | TDV-T SOURCE TDV-E | 23.4 296.3 | 224.7 16.9 224.1 | 75.6 6.6 72.2 | | | 255° | TDV-T SOURCE TDV-E | 301.8 23.6 296.0 | 221.7 16.2 220.7 | 80.1 7.4 75.3 | | AP |
| | 300° | TDV-T SOURCE | 315.2 24.9 | 236.6 17.9 | 78.6 7.0 | | 300° | TDV-T SOURCE | 214.5 15.2 204.4 | 176.4 12.5 | 38.0 2.7 | | | 300° | TDV-T SOURCE | 296.3 23.1 | 224.1 16.8 | 72.2 6.3 | | | 300° | TDV-T SOURCE | 296.0 23.2 | 220.7 16.2 | 75.3 7.0 | | SS |
| | 345° | TDV-E TDV-T SOURCE | 301.0 301.0 23.8 | 233.4 233.4 17.7 | 67.5 67.5 6.1 | | 345° | TDV-E TDV-T SOURCE | 204.4 | 170.3 170.3 12.2 | 34.2 34.2 2.5 | Worst Case | | 345° | TDV-E TDV-T SOURCE | 280.0 280.0 22.0 | 219.0 219.0 16.5 | 61.0 61.0 5.4 | Worst Case Worst Case | , | 345° | TDV-E TDV-T SOURCE | 277.3 277.3 21.8 | 213.9 213.9 15.8 | 63.4 63.4 6.0 | | |
| CZ Group | Climate Zone 15 Palm Spring-Intl | Azimuth (Front | Standard Design | Proposed Design | Margin Wors | _ | CZ Climate Zone | ntl (Front | Standard Design | Proposed Design | Margin | Worst Case | CZ Group | Climate Zone 15 Palm Spring-Intl | Azimuth (Front | Standard Design | Proposed Design | Margin | Worst Case | CZ Group | Climate Zone 15 Palm Spring-Intl | Azimuth (Front | Standard Design | Proposed | Margin | Worst Case | |
| - Стоир | | Orientation) TDV-E | 345.7 345.7 | 270.2 | 75.5 75.5 | | 30° | Orientation TDV-E TDV-T | 326.4 326.4 | 203.4 203.4 | 123.0 123.0 | | G. 53.p | 30° | Orientation) TDV-E TDV-T | 319.2 231.5 | 257.1 218.6 | 62.2 12.9 | | G, Sup | 30° | Orientation) TDV-E TDV-T | 311.4 223.7 | 284.4 211.6 | 27.1 12.1 | | 2022 CB A SEPARATE PROJEC |
|] | 30° | TDV-T SOURCE TDV-E | 24.8 359.0 | 270.2 17.0 271.7 | 7.8 7.8 87.3 | | | SOURCE TDV-E | 23.4 339.2 | 12.2 205.9 | 11.2 133.3 | | | 30 | SOURCE TDV-E | 19.2 337.7 | 14.7 260.0 | 4.5 77.6 | | | 30 | SOURCE TDV-E | 18.7 324.6 | 15.8 288.3 | 2.9 | | A SEPARATE PROJEC |
| | 75° | TDV-T SOURCE | 359.0 25.8 | 271.7 17.1 | 87.3 8.7 | | 75° | TDV-T SOURCE TDV-E | 339.2 24.4 330.4 | 205.9 12.3 205.1 | 133.3 12.1 125.4 | | | 75° | TDV-T SOURCE | 249.9 20.5 | 222.3 14.9 | 27.6 5.6 | | | 75° | TDV-T SOURCE | 236.9 19.7 | 217.0 16.2 | 19.8 3.5 | | WANDIACIONE |
| - | 120° | TDV-E TDV-T SOURCE | 356.4 356.4 25.6 | 270.5 270.5 17.1 | 85.9 85.9 8.6 | | 120° | TDV-T SOURCE | 330.4 23.6 | 205.1 12.2 | 125.4 125.4 11.4 | | | 120° | TDV-E TDV-T SOURCE | 332.9 245.2 20.1 | 258.4 221.8 14.9 | 74.5 23.4 5.3 | | | 120° | TDV-E TDV-T SOURCE | 324.3 236.6 19.5 | 287.2 217.9 16.2 | 37.2 18.7 3.3 | | |
| | 165° | TDV-E TDV-T | 331.4 331.4 | 267.5 267.5 | 63.9 63.9 | | 165° | TDV-E TDV-T | 237.3 237.3 | 202.0 202.0 | 35.3 35.3 | | | 165° | TDV-E TDV-T | 305.9 218.1 | 253.6 215.0 | 52.3 3.1 | Worst Case Worst Case | | 165° | TDV-E TDV-T | 303.0 215.3 | 282.1 209.1 | 21.0 6.2 | | |
| D | | SOURCE TDV-E | 23.6 342.0 | 16.8 269.7 | 6.8 72.2 | | 210° | SOURCE TDV-E TDV-T | 14.5 252.3 252.3 | 12.0 204.9 204.9 | 2.5 47.3 47.3 | | D | 240° | SOURCE TDV-E | 18.0 321.9 | 14.4 256.3 | 3.6 65.6 | Worst Case | D | 0400 | SOURCE TDV-E | 17.9 316.2 | 15.5 285.0 | 2.4 31.2 | | ~ (A) |
| | 210° | TDV-T SOURCE TDV-E | 342.0 24.7 352.7 | 269.7 17.0 271.2 | 72.2 7.7 81.4 | | | SOURCE TDV-E | 15.7 264.4 | 12.3 207.8 | 3.4 56.6 | | | 210° | TDV-T SOURCE TDV-E | 234.1 19.5 335.5 | 217.8 14.7 259.4 | 16.4 4.8 76.2 | | | 210° | TDV-T SOURCE TDV-E | 228.4 19.0 331.7 | 212.1 15.9 289.0 | 16.3 3.1 42.7 | | |
| | 255° | TDV-T SOURCE | 352.7 25.4 | 271.2 17.1 | 81.4 8.4 | | 255° | TDV-T SOURCE | 264.4 16.4 254.2 | 207.8 12.4 205.9 | 56.6 4.0 48.3 | | | 255° | TDV-T SOURCE | 247.8 20.5 | 221.6 14.9 | 26.1 5.6 | | | 255° | TDV-T SOURCE | 244.0 20.1 | 217.7 16.2 | 26.3 3.9 | | |
| | 300° | TDV-E TDV-T | 345.4 345.4 24.8 | 270.4 270.4 17.0 | 75.0 75.0 7.8 | | 300° | TDV-E TDV-T SOURCE | 254.2 | 205.9 205.9 12.3 | 48.3 48.3 3.5 | | | 300° | TDV-E TDV-T SOURCE | 327.1 239.3 19.7 | 258.7 220.8 14.7 | 68.4 18.6 5.0 | | | 300° | TDV-E TDV-T SOURCE | 326.6 238.8 19.7 | 287.2 215.5 16.0 | 39.4 23.3 3.7 | | |
|] | 345° | SOURCE TDV-E TDV-T | 329.3 329.3 | 17.0 268.0 268.0 | 7.8 61.4 Wors 61.4 Wors | | 345° | TDV-E TDV-T | 235.8 235.8 | 201.6 201.6 | 34.2 34.2 | Worst Case Worst Case | | 345° | TDV-E TDV-T | 309.0 221.3 | 254.6 216.0 | 54.5 5.3 | | | 345° | TDV-E TDV-T | 302.0 214.2 | 281.8 208.8 | 20.1 5.4 | Worst Case Worst Case | |
| | 3.0 | SOURCE | 23.4 | 16.8 | 6.6 Wors | | | SOURCE | 14.3 | 12.0 | 2.4 | Worst Case | | | SOURCE | 18.2 | 14.4 | 3.8 | | | | SOURCE | 17.8 | 15.5 | 2.3 | Worst Case | |

Series Wall-Mount

Systemair Sophomore

W60HC

SysAir 4T

HVAC Specification Table

CV

47,500 44,800 VFD 1,600

CV

(Btu/h) CV/VFD (CFM) (HP)

1,350

1,550

1,750

(Btu/h)

39,000

42,500

52,500

Rigid insulation R-value added above the R-19 Roof Structure per detail

Rigid insulation R-value added to the exterior R-13 Metal Stud walls, per detail

Design Ouside Air (OSA / cfm) per HVAC unit per Section H3. or the Title 24 reports

42,000

47,500

54,500

Indicates deviation from predominant design

Indicates Systemair Sophomore HVAC unit

NFRC Tested Window U-factor and SHGC

Total number of specified HVAC units in PC

HVAC Unit Specification

- The kW DC OPV required for compliance is indicated in this table.

- PV panel = 5 degree per Section F1 of the Title 24 report for details

Rigid insulation R-value below the ground floor slab

- PV panel Azimuth is based on the PC orientation, see Section F1 on pg. 9 of the Title 24 report for details

Cooling Heating

(COP)

3.54

Solar And Battery

Solar And Battery

CERTIFICATE OF COMPLIANCE

This document is used to demonstrate compliance with prescriptive PV and battery requirements in 140.10/170.2 for nonresidential, multifamily and mixed-use buildings and prescriptive solar thermal requirements in 170.2(d)SC for multifamily and hotely motel occupancies. When PV/battery/solar thermal requirements don't apply or are traded using the performance approach, this document demonstrates compliance with mondatory solar readiness requirements 110.10/160.8 for newly constructed buildings wither are either multifamily ten stories or fewer, hotel/motel ten stories or fewer or all other nonresidential buildings three stories or fewer. It is also used to demonstrate compliance with solar with solar multifamily ten stories or fewer, but all the solar in the solar properties of the solar pr

Water Heating System water-heating system complying with 170.2(d)3C and Reference Residential Appendix RA4, as documented in Table H.

Exception to Solar Ready Area: Smart

Exception to Solar Ready Area: Smart
Thermostat and Alternative Energy Efficiency
additional measure listed in Exception 4 to \$110.10(b)18 is installed, as documented in Table I.

Generated Date/Time:

Documentation Software: Energy Code Ace

Compliance ID: 92981-1023-0032 Report Generated: 2023-10-10 18:09:34

The compliance path the project is using to comply per 110.10(b)1B/ 140.10/ 170.2(g and h) is indicated below.

designed for vehicular traffic, parking or for

Plan sheet showing roof designed for vehicular traffic, parking or heliport Exception to Solar Ready Area: Roof too small

The project is new construction and has a total roof area <= 533 square feet

The project is new construction and has a total roof area <= 533 square feet

FOOTNOTE: Buildings with roof area \ll 533 ft² would have a required solar zone \ll 80 ft² and are therefore exempt per 110.10(b)1.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101

n to Solar Ready Area: Number of The project is nonresidential > 3 stories or multifamily/ hotel/motel > 10 stories.

Compliance with Solar Readiness Requirements in 110.10(b)1B

Compliance with Solar Photovoltaic (PV) and Battery Requirements in 140.10/ 170.2(g and h)

Compliance meets Exception 2 to solar ready requirements in 110.10(b).

Provided PV system and battery storage sized The project has included an installed PV system and battery storage system per requirements in 140.10/170.2(g and h) as

kW zeeption to PV and Battery: No contiguous
The Solar Access Roof Area(s) of the project site contains less than 80 contiguous square feet as documented in Table J.

| Deception to PV and battery, dulit there show loads. The project las a foot design winder to the most last to the roof structure, to the roof structure, to the roof structure, to meet ASCE? 16 Chapter 7, Show Loads. The project is a multi-tenant building in an area where a load serving entity does not provide either a Virtual Net Metering (NNEM) or community Solar (NNEM) or community Solar or community of a program.

The project includes a hotel/motel or multifamily occupancy with a gas or propane central water-heating system (serves 2+ dwelling units) and includes a permanently installed domestic solar water-heating system to comply with 170.2(d)3C and Reference Residential Appendix RA4, as documented in Table H.

Generated Date/Time:

Documentation Software: Energy Code Ace

Compliance ID: 92981-1023-0032 Report Generated: 2023-10-10 18:09:34

Solar Access Roof Area Ine Solar Access Roof Area Solar Access Roof Area In label J.

Exception to PV and Battery: Can't meet snow The project has a roof design where the enforcement authority has verified it is not possible for the PV system, including

Access Roof Area
documented in Table J.
Exception to PV and Battery: Required PV < The required PV system size is less than 4 kW dc as documented in Table J.

The required PV system size is less than 4 kW dc as documented in Table J.

Compliance with Solar Thermal Water Heating Requirements in 170.2(d)3C (Multifamily and hotel/ motel occupancies only)

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101

er 140.10/ 170.2 (g and h) documented in Table J.

xeeption to PV and Battery: Not enough Solar | The total of all available Solar Access Roof Area(s) of the project site is less than three percent of the conditioned floor area as

(EER)

11.0

0.50

0.50 11.0

0.75

0.75

Rigid R- Ground Floor Wall Window Window Air Barrier Cool Roof CO Sensor FC-1 Number of OSA per FC-1 FC-2 Number of OSA per FC-2 Design PV

R-15 ci R-5 ci R-5 ci 0.42 0.25 Y N N W42HC 1 364.8 na 0 na 0.0

R-5 ci na R-5 ci 0.42 0.25 Y N N W42HC 1 547.2 na 0 na 0.0

R-5 ci na R-5 ci 0.42 0.25 Y N Y SysAir 4T 1 547.2 na 0 na 0.0

Rigid R- Ground Floor Wall Window Window Air Barrier Cool Roof CO Sensor FC-1 Number of OSA per FC-2 Number of OSA per FC-2 Design P

R-5 ci na R-5 ci 0.42 0.25 Y N N W42HC 2 364.8 na 0 na 0.0

na R-5 ci 0.42 0.25 Y N N W42HC 2 364.8 na 0 na 0.0

R-15 ci R-5 ci R-5 ci 0.42 0.25 Y N N W42HC 2 364.8 na 0 na 0.0

R-5ci na R-5ci 0.42 0.25 Y N N W42HC 2 364.8 na 0 na

Rigid R- Ground Floor Wall Window Window Air Barrier Cool Roof CO Sensor FC-1 Number of OSA per FC-1 FC-2 Number of OSA per FC-2 Design PV

R-15 ci R-5 ci R-5 ci 0.42 0.25 Y N N W42HC 2 456.0 na 0 na 0.0

R-5 ci na R-5 ci 0.42 0.25 Y N N W42HC 2 456 na 0 na 0.0

R-5 ci na R-5 ci 0.42 0.25 Y N N W42HC 2 456 na 0 na 0.0

Rigid R- Ground Floor Wall Window Window Air Barrier Cool Roof CO Sensor FC-1 Number of OSA per FC-1 FC-2 Number of OSA per FC-1 SCA per FC-1 Number of OSA per FC-1 Number of OSA per FC-2 Number of OSA per

R-5 ci na R-5 ci 0.42 0.25 Y N N W42HC 2 547.2 na 0 na 0.0

R-5 ci na R-5 ci 0.42 0.25 Y N Y SysAir 4T 2 547.2 na 0 na 3.2

Rigid R- Ground Floor Wall Window Window Air Barrier Cool Roof CO Sensor FC-1 Number of OSA per FC-1 FC-2 Number of OSA per FC-2 Design PV

R-15 ci R-15 ci R-5 ci 0.42 0.25 Y N N W42HC 2 364.8 W42HC 1 547.2 3.9

R-5 ci na R-5 ci 0.42 0.25 Y N N W42HC 2 364.8 W42HC 1 547.2

R-5 ci na R-5 ci 0.42 0.25 Y N Y SysAir 4T 2 364.8 SysAir 5T 1 547.2

Rigid R- Ground Floor Wall Window Window Air Barrier Cool Roof CO Sensor FC-1 Number of OSA per FC-1 FC-2 Number of OSA per FC-2 Design PV

R-5 ci na R-5 ci 0.42 0.25 Y N N W42HC 4 364.8 na 0 na 0.0

R-5ci na R-5ci 0.42 0.25 Y N N W42HC 4 364.8 na 0 na 0.0

Rigid R- Ground Floor Wall Window Window Air Barrier Cool Roof CO Sensor FC-1 Number of OSA per FC-1 FC-2 Number of OSA per FC-2 Design PV

na R-5 ci 0.42 0.25 Y N Y SysAir 4T 3 364.8 SysAir 4T 1 547.2 0.0

R-15 ci R-15 ci R-5 ci 0.42 0.25 Y N N W42HC 3 364.8 W42HC 1 547.2 0.0

R-5 ci na R-5 ci 0.42 0.25 Y N Y SysAir 4T 3 364.8 SysAir 4T 1 547.2

R-15 ci R-5 ci R-5 ci 0.42 0.25 Y N N W42HC 5 364.8 na 0 na 0.0

R-5 ci na R-5 ci 0.42 0.25 Y N N W42HC 5 364.8 na 0 na

R-5 ci na R-5 ci 0.42 0.25 Y N N W42HC 5 364.8 na 0 na 0.0

na R-5 ci 0.42 0.25 Y N N W42HC 5 364.8 na 0 na 0.0

R-15 ci R-5 ci R-5 ci 0.42 0.25 Y N N W42HC 4 364.8 na 0 na 0.2

R-5ci na R-5ci 0.42 0.25 Y N Y SysAir4T 2 547.2 na 0 na

R-5 ci na R-5 ci 0.42 0.25 Y N N W48HC 2 456 na 0 na

R-15 ci R-5 ci R-5 ci 0.42 0.25 Y N N W42HC 2 547.2 na 0 na 0.0

na R-5 ci 0.42 0.25 Y N Y SysAir 4T 1 547.2 na 0 na 0.0

Group Zone Reference City value¹ R-value² R-value³ U-factor⁴ SHGC⁴ (Y/N) (Y/N) (Y/N) Unit Type⁵ FC-1 Units⁶ (cfm)⁷ Unit Type⁵ FC-2 Units⁶ (cfm)⁷ (kW DC)

Group Zone Reference City value¹ R-value² R-value³ U-factor⁴ SHGC⁴ (Y/N) (Y/N) Unit Type⁵ FC-1 Units⁶ (cfm)⁷ Unit Type⁵ FC-2 Units⁶ (cfm)⁷ (kW DC)

Group Zone Reference City value¹ R-value² R-value³ U-factor⁴ SHGC⁴ (Y/N) (Y/N) Unit Type⁵ FC-1 Units⁶ (cfm)⁷ Unit Type⁵ FC-2 Units⁶ (cfm)⁷ (kW DC)

Group Zone Reference City value¹ R-value² R-value³ U-factor⁴ SHGC⁴ (Y/N) (Y/N) (Y/N) Unit Type⁵ FC-1 Units⁶ (cfm)⁷ Unit Type⁵ FC-2 Units⁶ (cfm)⁷ (kW DC)

Group Zone Reference City value¹ R-value² R-value³ U-factor⁴ SHGC⁴ (Y/N) (Y/N) (Y/N) Unit Type⁵ FC-1 Units⁶ (cfm)⁷ Unit Type⁵ FC-2 Units⁶ (cfm)⁷ (kW DC)

CZ09 Burbank-Glendale R-5 ci na R-5 ci 0.42 0.25 Y N Y SysAir 4T 2 364.8 SysAir 4T 1 547.2 0.0

Group Zone Reference City value¹ R-value² R-value³ U-factor⁴ SHGC⁴ (Y/N) (Y/N) (Y/N) Unit Type⁵ FC-1 Units⁶ (cfm)⁷ Unit Type⁵ FC-2 Units⁶ (cfm)⁷ (kW DC)

Group Zone Reference City value¹ R-value² R-value³ U-factor⁴ SHGC⁴ (Y/N) (Y/N) Unit Type⁵ FC-1 Units⁶ (cfm)⁷ Unit Type⁵ FC-2 Units⁶ (cfm)⁷ (kW DC)

CZ
Group
Zone Reference City value¹ R-value² R-value³ U-factor⁴ SHGC⁴ (Y/N) (Y/N) (Y/N) Unit Type⁵ FC-1 Units⁶ (cfm)⁷ Unit Type⁵ FC-2 Units⁶ (cfm)⁷ (kW DC)

A CZO1 Arcata

P.15 ci P.5 ci P.5

preckels Ave., Manteca, CA 95336 (209) 825-1921 Fax (209) 825-7018 www.americanmodular.com

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 40' THRU 120' x 40' ARD MODULAR BUILDING (LOW SEISMIC)

OJECT NAME

APPROVED DIV. OF THE STATE ARCHITECT APP: 04-122050 PC REVIEWED FOR SS Z FLS Z ACS Z CG Z

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XXXX-22

FACILITY:

ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE TRACY. CA 95377

PROJECT: ART FREILER ES - TK CLASSROOM

SHEET NAME: **ENERGY CALCULATIONS SUMMATION SHEET**

CLIENT PROJ NO: 3595001000 DATE: 04/03/24



DATE



HMC Architects

American Modular Systems 787 Spreckels Ave., Manteca, CA 95336 Phone (209) 825-1921 Fax (209) 825-7018 www.americanmodular.com

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24' x 40' THRU 120' x 40'

STANDARD MODULAR BUILDING

APPROVED DIV. OF THE STATE ARCHITEC

2022 CBC PRE-CHECK (PC) DOCUMENT

MANUFACTURER PROFESSIONAL OF FECORD ON PC

PRE-CHECKED SET NAME

SITE SPECIFIC PROJECT NAME

KEYNOTES

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DRAWN BY: AA AS NOTED MM/DD/YY

PROJECT NO: XXXX-22

ENERGY CALCULATIONS SUMMATION SHEET

SHEET NUMBER:

SHEET TITLE:

3595001000 2101 CAPITOL AVENUE, SUITE 100 SACRAMENTO, CA 95816 916 368 7990 / www.hmcarchitects.com △ **DESCRIPTION**

GENERAL NOTES

FACILITY: ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE TRACY, CA 95377

PROJECT: ART FREILER ES - TK CLASSROOM

SHEET NAME: **ENERGY CALCULATIONS SUMMATION SHEET**

DATE: 04/03/24 CLIENT PROJ NO: 3595001000

ADDENDUM "A"

| | PC DESIGN REVIEW INFORMATION PC DESIGN REVIEW INFORMATION | | | | | PC DESIGN REVIEW INFORMATION | | | | PC DESIGN REVIEW INFORMATION | | | | PC DESIGN REVIEW INFORMATION Title 24-2022, Part 6, Energy Code | | | | | | | | | | | | | | | | | | | |
|-------|---|-----------------------------------|--------------------------|---|----------|------------------------------|-------------|-------------------------------------|-----------------------------------|------------------------------|--|----------------------|--|---|-------------------------------------|-----------------------------------|----------------------------|--|----------------------|--|-------------|--|-----------------------------------|---------------------------|-------------------------|---|-------------|--|-----------------------------------|------------------------|------------------------|----------------------|----------------------------------|
| Mod | lel Name and Option: | PC 72x40 | 022, Part 6, En Calcu | e rgy Code lation Date/Time of Energy F | Report: | 9/3/2023 | | Model Name and Option: | n: AMS 84x40 | 022, Part 6, En Calc | e rgy Code ulation Date/Time | | | | Model Name and Option | : AMS 96x40 | 2022, Part 6, End Calcu | e rgy Code Ilation Date/Time | of Energy Repo | rt: 9/3/2023 | | Model Name and Option: | | 022, Part 6, Ene Calcu | | of Energy Report: 9/3/2023 | | Model Name and Option: | | | | e of Energy Repo | |
| | Total Floor Area: HVAC System Type: | 2880 VSHP | | DSA Appli | ication: | | | Total Floor Area: | | | | DSA Application | 1: | | Total Floor Area | | | | DSA Application | on: | | Total Floor Area: HVAC System Type: | | | | DSA Application: | | Total Floor Area: HVAC System Type: | 4800 VSHP | | | DSA Application | on: |
| | limate Zone 16 Blue Canyon | Metric | Standard Design | Proposed Margi | in V | Vorst Case | CZ Group | Climate Zone 16 Blue Canyon | Metric | Standard Design | Proposed Design | Margin | Worst Case | CZ Group | Climate Zone 16 Blue Canyon | Metric | Standard Design | Proposed Design | Margin | Worst Case | CZ Group | Climate Zone 16 Blue Canyon | Metric | Standard Design | Proposed Design | Margin Worst Case | CZ Group | Climate Zone 16 Blue Canyon | Metric | Standard Design | Proposed Design | Margin | Worst Ca |
| | 30° | TDV-E TDV-T SOURCE | 258.8 258.8 32.4 | 217.8 41.0 217.8 41.0 19.8 12.6 |) | | | 30° | TDV-E TDV-T SOURCE | 222.2 182.6 33.8 | 201.8 168.7 17.4 | 20.4 13.9 16.4 | | - | 30° | TDV-E TDV-T SOURCE | 255.6 216.0 30.0 | 208.5 207.0 19.6 | 47.1 9.0 10.4 | | | 30° | TDV-E TDV-T SOURCE | 254.3 214.7 29.0 | 193.0 193.0 17.9 | 61.3 21.7 11.2 | | 30° | TDV-E TDV-T SOURCE | 253.4 213.8 29.5 | 205.8 205.8 19.3 | 47.6 8.0 10.2 | |
| | 75° | TDV-E TDV-T | 265.8 265.8 | 220.8 45.1 220.8 45.1 | 1 | | | 75° | TDV-E TDV-T | 231.4 191.8 | 204.0 171.7 | 27.4 20.1 | | | 75° | TDV-E TDV-T | 267.3 227.7 | 211.0 209.5 | 56.3 18.2 | | | 75° | TDV-E TDV-T | 268.1 228.5 | 196.2 196.2 | 71.9 32.3 | | 75° | TDV-E TDV-T | 265.3 225.7 | 208.5 208.5 | 56.8 17.2 | |
| | 100% | SOURCE TDV-E | 32.7 260.7 | 20.0 12.7 220.7 40.0 |) | | | 4000 | SOURCE TDV-E | 34.2 223.9 184.3 | 17.6 203.5 | 16.6 20.4 | | - | 1000 | SOURCE TDV-E | 30.6 257.2 | 19.8 211.0 | 10.8 46.3 | | | 4000 | SOURCE TDV-E | 29.7 256.3 | 18.1 195.7 | 11.6 60.6 | | 4000 | SOURCE TDV-E | 30.1 255.1 | 19.6 208.5 | 10.5 46.6 | |
| | 120° | TDV-T SOURCE TDV-E | 260.7 32.5 246.6 | 220.7 40.0 20.1 12.4 217.4 29.1 | 4 | Vorst Case | | 120° | TDV-T SOURCE TDV-E | 33.8 212.5 | 172.4 17.7 200.3 | 11.9 16.1 12.2 | | - | 120° | TDV-T SOURCE TDV-E | 217.6 30.1 284.6 | 209.6 19.8 208.1 | 8.1 10.3 76.5 | | | 120° | TDV-T SOURCE TDV-E | 216.7 29.1 267.6 | 195.7 18.1 191.9 | 21.0 11.0 75.7 | | 120° | TDV-T SOURCE TDV-E | 215.5 29.6 282.2 | 208.5 19.6 205.5 | 7.0 10.0 76.6 | |
| Λ | 165° | TDV-T SOURCE | 246.6 31.8 | 217.4 29.1 19.8 12.0 | 1 W | Vorst Case Vorst Case | Δ | 165° | TDV-T SOURCE | 172.9 33.1 | 167.0 17.3 | 5.8 15.8 | | Λ | 165° | TDV-T SOURCE | 245.0 40.3 | 206.6 19.6 | 38.4 20.7 | | Λ | 165° | TDV-T SOURCE | 228.0 35.4 | 191.9 17.8 | 36.1 17.6 | Δ | 165° | TDV-T SOURCE | 242.6 39.8 | 205.5 19.4 | 37.0 20.4 | |
| ` | 210° | TDV-E TDV-T SOURCE | 259.6 259.6 32.5 | 218.3 41.3 218.3 41.3 19.8 12.7 | 3 | | | 210° | TDV-E TDV-T SOURCE | 221.6 182.0 33.8 | 201.4 168.3 17.4 | 20.2 13.7 16.4 | | | 210° | TDV-E TDV-T SOURCE | 260.9 221.3 30.3 | 209.1 207.6 19.6 | 51.8 13.7 10.7 | | | 210° | TDV-E TDV-T SOURCE | 255.7 216.1 29.1 | 192.6 192.6 17.8 | 63.2 23.6 11.3 | | 210° | TDV-E TDV-T SOURCE | 258.7 219.1 29.8 | 206.5 206.5 19.4 | 52.2 12.6 10.4 | |
| | 255° | TDV-E TDV-T | 272.1 272.1 | 220.6 51.4 220.6 51.4 | 4 | | | 255° | TDV-E TDV-T | 229.2 189.6 | 203.7 171.4 | 25.6 18.3 | | | 255° | TDV-E TDV-T | 273.7 234.1 | 211.0 209.5 | 62.7 24.6 | | | 255° | TDV-E TDV-T | 268.1 228.5 | 195.2 195.2 | 72.9 33.3 | | 255° | TDV-E TDV-T | 271.8 232.2 | 208.5 208.5 | 63.3 23.7 | |
| | 300° | SOURCE TDV-E TDV-T | 33.0 259.5 259.5 | 20.0 12.9 220.1 39.4 220.1 39.4 | 4 | | | 300° | SOURCE TDV-E TDV-T | 34.2 223.4 183.8 | 17.6 203.6 171.0 | 16.6 19.9 12.9 | | - | 300° | SOURCE TDV-E TDV-T | 30.8 261.3 221.7 | 19.8 210.3 208.9 | 11.1 50.9 12.8 | | | 300° | SOURCE TDV-E TDV-T | 29.7 257.4 217.8 | 18.0 194.8 194.8 | 11.6 62.6 23.0 | | 300° | SOURCE TDV-E TDV-T | 30.4 259.0 219.4 | 19.6 207.9 207.9 | 10.8 51.1 11.5 | |
| | 000 | SOURCE TDV-E | 32.3 250.1 | 20.0 12.3 216.7 33.4 | 3 | | | | SOURCE TDV-E | 33.9 209.3 | 17.6 200.7 | 16.2 8.6 | Worst Case | | 300 | SOURCE TDV-E | 30.2 246.8 | 19.8 207.3 | 10.4 39.5 | Worst Case | | 300 | SOURCE TDV-E | 29.1 239.5 | 18.0 191.5 | 11.1 47.9 Worst Case | | 300 | SOURCE TDV-E | 29.7 | 19.6 204.7 | 10.1 | Worst Ca |
| | 345° | TDV-T SOURCE | 250.1 31.8 | 216.7 33.4 19.7 12.1 | | | | 345° | TDV-T SOURCE | 169.7 33.1 | 167.4 17.4 | 2.3 15.7 | Worst Case Worst Case | | 345° | TDV-T SOURCE | 207.2 29.4 | 205.8 19.5 | 1.4 9.9 | Worst Case Worst Case | | 345° | TDV-T SOURCE | 199.9 28.2 | 191.5 17.7 | 8.3 Worst Case 10.4 Worst Case | | 345° | TDV-T SOURCE | 204.7 28.9 | 204.7 19.3 | 0.1 9.6 | Worst Ca Worst Ca |
| | limate Zone 05 Santa Maria | Azimuth (Front Orientation) | Standard Design | Proposed Margi | in V | Vorst Case | CZ Group | Climate Zone 05 Santa Maria | Azimuth (Front Orientation) | Standard Design | Proposed Design | Margin | Worst Case | CZ Group | Climate Zone 05 Santa Maria | Azimuth (Front Orientation) | Standard Design | Proposed Design | Margin | Worst Case | CZ Group | Climate Zone 05 Santa Maria | Azimuth (Front Orientation) | Standard Design | Proposed Design | Margin Worst Case | CZ Group | Climate Zone 05 Santa Maria | Azimuth (Front Orientation) | Standard Design | Proposed Design | Margin | Worst Ca |
| | 30° | TDV-E TDV-T SOURCE | 186.7 186.7 17.2 | 114.9 71.8 114.9 71.8 11.2 6.1 | 3 | | | 30° | TDV-E TDV-T SOURCE | 146.3 106.5 11.6 | 112.2 105.2 10.9 | 34.1 1.3 0.7 | Worst Case Worst Case Worst Case | | 30° | TDV-E TDV-T | 184.3 144.5 15.1 | 116.3 116.3 11.5 | 68.0 28.2 3.6 | | | 30° | TDV-E TDV-T | 178.8 139.0 14.5 | 110.7 110.7 10.9 | 68.1 Worst Case 28.3 Worst Case | | 30° | TDV-E TDV-T SOURCE | 183.1 143.3 15.0 | 115.4 115.4 11.4 | 67.7 27.9 3.6 | Worst Ca Worst Ca Worst Ca |
| | 75° | TDV-E TDV-T | 186.7 186.7 | 115.3 71.4 115.3 71.4 | 4 | | | 75° | TDV-E TDV-T | 146.6 106.8 | 112.0 105.2 | 34.6 1.6 | vvoist case | - | 75° | SOURCE TDV-E TDV-T | 184.3 144.5 | 116.3 116.3 | 68.0 28.2 | | | 75° | SOURCE TDV-E TDV-T | 199.4 159.6 | 110.9 110.9 110.9 | 3.6 Worst Case 88.5 48.7 | | 75° | TDV-E TDV-T | 214.0 174.2 | 11.4 115.6 115.6 | 98.5 58.7 | vvorst Ca |
| | 1000 | SOURCE TDV-E | 17.3 177.8 177.8 | 11.2 6.0 114.3 63.5 | 5 | | | 1000 | SOURCE TDV-E | 11.6 187.7 147.9 | 10.9 111.3 | 0.7 76.3 | | - | | SOURCE TDV-E | 15.2 205.2 | 11.5 115.5 | 3.6 89.6 | | | | SOURCE TDV-E | 16.2 190.9 | 11.0 110.1 | 5.3 80.8 | | | SOURCE TDV-E | 17.6 204.0 | 11.4 114.7 | 6.2 89.3 | |
| | 120° | TDV-T SOURCE TDV-E | 177.8 16.5 175.6 | 114.3 63.5 11.2 5.3 113.3 62.3 | | | | 120° | TDV-T SOURCE TDV-E | 15.5 189.7 | 104.7 10.9 110.8 | 43.1 4.6 78.9 | | | 120° | TDV-T SOURCE TDV-E | 165.4 17.0 201.6 | 115.5 11.5 114.6 | 49.8 5.5 87.0 | | | 120° | TDV-T SOURCE TDV-E | 151.1 15.6 191.2 | 110.1 10.9 109.3 | 41.0 4.7 81.9 | | 120° | TDV-T SOURCE TDV-E | 164.2 16.9 200.4 | 114.7 11.4 113.8 | 49.5 5.4 86.6 | |
| В | 165° | TDV-T SOURCE | 175.6 16.3 | 113.3 62.3 11.1 5.2 | | | В | 165° | TDV-T SOURCE | 149.9 15.7 | 103.9 10.8 | 46.0 4.8 | | В | 165° | TDV-T SOURCE | 161.8 16.7 | 114.6 11.5 | 47.2 5.2 | | В | 165° | TDV-T SOURCE | 151.4 15.6 | 109.3 10.9 | 42.1 4.8 | В | 165° | TDV-T SOURCE | 160.6 16.6 | 113.8 11.4 | 46.8 5.2 | |
| | 210° | TDV-E TDV-T SOURCE | 182.1 182.1 16.9 | 114.3 67.8 114.3 67.8 11.2 5.7 | 3 | | | 210° | TDV-E TDV-T SOURCE | 149.7 109.9 11.9 | 112.1 105.2 10.9 | 37.6 4.7 1.0 | | | 210° | TDV-E TDV-T SOURCE | 179.5 139.7 14.8 | 115.8 115.8 11.5 | 63.7 23.9 3.2 | Worst Case Worst Case Worst Case | | 210° | TDV-E TDV-T SOURCE | 198.6 158.8 16.2 | 110.6 110.6 10.9 | 88.0 48.2 5.3 | | 210° | TDV-E TDV-T SOURCE | 207.4 167.6 17.1 | 115.0 115.0 11.4 | 92.4 52.6 5.6 | |
| | 255° | TDV-E TDV-T | 182.1 182.1 | 114.6 67.5 114.6 67.5 | | | | 255° | TDV-E TDV-T | 197.2 157.4 | 111.8 105.0 | 85.4 52.4 | | | 255° | TDV-E TDV-T | 209.5 169.7 | 115.8 115.8 | 93.8 54.0 | | | 255° | TDV-E TDV-T | 199.2 159.4 | 110.6 110.6 | 88.5 48.7 | | 255° | TDV-E TDV-T | 208.3 168.5 | 115.0 115.0 | 93.3 53.5 | |
| | 300° | SOURCE TDV-E TDV-T | 16.8 173.6 173.6 | 11.2 5.7 113.9 59.6 113.9 59.6 | | Vorst Case | | 300° | SOURCE TDV-E TDV-T | 16.3 188.1 148.3 | 10.9 111.2 104.5 | 5.4 76.9 43.9 | | | 300° | SOURCE TDV-E TDV-T | 17.3 200.8 161.0 | 11.5 115.0 115.0 | 5.8 85.8 46.1 | | | 300° | SOURCE TDV-E TDV-T | 16.2 190.5 150.7 | 10.9 109.8 109.8 | 5.3 80.8 41.0 | | 300° | SOURCE TDV-E TDV-T | 17.1 199.7 159.9 | 11.4 114.1 114.1 | 5.7 85.5 45.7 | |
| | | SOURCE TDV-E | 16.1 178.8 | 11.1 5.0 113.3 65.6 | V | Vorst Case | | | SOURCE TDV-E | 15.5 188.5 | 10.9 110.8 | 4.7 | | | 300 | SOURCE TDV-E | 16.6 205.6 | 11.5 114.5 | 5.2 91.1 | | | 300 | SOURCE TDV-E | 15.5 191.6 | 10.9 | 4.7 82.4 | | 300 | SOURCE TDV-E | 16.5 204.4 | 11.4 | 5.1 90.8 | |
| | 345° | TDV-T SOURCE Azimuth | 178.8 16.6 | 113.3 65.6 11.1 5.5 | | | | 345° | TDV-T SOURCE Azimuth | 148.7 15.6 | 103.9 10.8 | 44.8 4.7 | | - | 345° | TDV-T SOURCE | 165.8 17.0 | 114.5 11.4 | 51.3 5.6 | | | 345° | TDV-T SOURCE | 151.8 15.6 | 109.2 10.8 | 42.6 4.7 | | 345° | TDV-T SOURCE | 164.6 16.8 | 113.7 11.3 | 51.0 5.5 | |
| oup C | limate Zone 13 Fresno | (Front Orientation) | Standard Design | Proposed Margi | | Vorst Case | CZ Group | Climate Zone 13 Fresno | (Front Orientation) | Standard Design | Proposed Design | Margin | Worst Case | CZ Group | Climate Zone 13 Fresno | Azimuth (Front Orientation) | Standard Design | Proposed Design | Margin | Worst Case | CZ Group | Climate Zone 13 Fresno | Azimuth (Front Orientation) | Standard Design | Proposed Design | Margin Worst Case | CZ Group | Climate Zone 13 Fresno | Azimuth (Front Orientation) | Standard Design | Proposed Design | Margin | Worst Ca |
| | 30° | TDV-E TDV-T SOURCE | 201.4 150.2 12.6 | 172.2 29.2 138.1 12.0 10.8 1.8 |) | | | 30° | TDV-E TDV-T SOURCE | 238.2 187.0 15.9 | 169.5 169.5 11.9 | 68.8 17.5 4.1 | Worst Case | - | 30° | TDV-E TDV-T SOURCE | 286.6 235.3 20.5 | 214.7 214.7 16.1 | 71.9 20.6 4.3 | | | 30° | TDV-E TDV-T SOURCE | 252.5 201.2 17.3 | 166.6 166.6 11.7 | 85.9 34.6 5.6 | | 30° | TDV-E TDV-T SOURCE | 284.6 233.3 20.3 | 213.3 213.3 16.0 | 71.2 20.0 | |
| | 75° | TDV-E TDV-T | 207.8 156.6 | 178.9 29.0 145.1 11.5 | | | | 75° | TDV-E TDV-T | 244.3 193.0 | 174.9 174.9 | 69.3 18.1 | | | 75° | TDV-E TDV-T | 298.0 246.7 | 219.9 219.9 | 78.1 26.8 | | | 75° | TDV-E TDV-T | 260.0 208.7 | 172.7 172.7 | 87.3 36.0 | | 75° | TDV-E TDV-T | 296.1 244.9 | 218.7 218.7 | 77.4 26.1 | |
| | 120° | SOURCE TDV-E TDV-T | 12.9 207.4 156.1 | 11.1 1.8 177.4 30.0 144.5 11.7 |) | | - | 120° | SOURCE TDV-E TDV-T | 16.4 259.1 207.8 | 12.1 173.9 173.9 | 4.3 85.2 33.9 | | _ | 120° | SOURCE TDV-E TDV-T | 21.2 291.6 240.3 | 16.4 218.5 | 4.9 73.1 | | | 120° | SOURCE TDV-E TDV-T | 17.8 256.8 205.5 | 11.9 171.2 171.2 | 5.8 85.6 34.4 | | 120° | SOURCE TDV-E TDV-T | 21.1 289.7 238.4 | 16.3 217.3 217.3 | 72.4 21.1 | |
| | 120 | SOURCE TDV-E | 12.7 272.2 | 11.1 1.7 169.3 102.9 | | | | | SOURCE TDV-E | 17.3 244.3 | 12.1 167.2 | 5.3 77.1 | | | 120 | SOURCE TDV-E | 20.8 | 218.5 16.4 212.0 | 21.8 4.5 58.2 | Worst Case | | 120 | SOURCE TDV-E | 17.4 265.9 | 11.9 163.6 | 5.6 102.3 | | 120 | SOURCE TDV-E | 20.7 | 16.3 210.6 | 4.4 | Worst Ca |
| С | 165° | TDV-T SOURCE TDV-E | 220.9 19.5 198.9 | 135.5 85.4 10.6 9.0 171.4 27.5 | (| | С | 165° | TDV-T SOURCE TDV-E | 193.0 16.4 234.6 | 167.2 11.7 169.8 | 25.8 4.7 64.9 | | C | 165° | TDV-T SOURCE | 218.9 19.2 | 212.0 16.0 | 7.0 3.2 | Worst Case Worst Case | C | 165° | TDV-T SOURCE | 214.6 18.8 | 163.6 11.4 | 51.0 7.3 | С | 165° | TDV-T SOURCE | 217.0 19.0 | 210.6 15.9 | 6.4 3.2 | Worst Ca Worst Ca |
| | 210° | TDV-T SOURCE | 147.7 12.5 | 137.3 10.4 10.8 1.7 | 4 | | | 210° | TDV-T SOURCE | 183.3 16.0 | 169.8 11.9 | 13.6 4.1 | | | 210° | TDV-E TDV-T SOURCE | 281.8 230.5 20.2 | 214.2 214.2 16.2 | 67.6 16.3 4.0 | | | 210° | TDV-E TDV-T SOURCE | 250.4 199.1 17.1 | 166.1 166.1 11.6 | 84.3 33.0 5.4 Worst Case | | 210° | TDV-E TDV-T SOURCE | 279.7 228.5 20.0 | 212.8 212.8 16.1 | 66.9 15.7 3.9 | |
| | 255° | TDV-E TDV-T | 203.5 152.3 12.6 | 177.5 26.0 143.7 8.6 11.1 1.5 | | | | 255° | TDV-E TDV-T SOURCE | 239.9 188.6 16.4 | 175.5 175.5 12.2 | 64.4 13.1 | Worst Case Worst Case | | 255° | TDV-E TDV-T | 291.0 239.8 | 218.8 218.8 | 72.3 21.0 | | | 255° | TDV-E TDV-T | 261.8 210.6 | 173.0 173.0 | 88.8 37.6 | | 255° | TDV-E TDV-T | 289.3 238.0 | 217.6 217.6 | 71.7 20.4 | |
| | 300° | SOURCE TDV-E TDV-T | 198.7 147.4 | 176.3 22.4 143.4 4.0 | 4 V | Vorst Case Vorst Case | | 300° | TDV-E TDV-T | 242.0 190.8 | 174.3 174.3 | 67.8 16.5 | | - | 300° | SOURCE TDV-E TDV-T | 20.8 286.4 235.1 | 16.4 217.8 217.8 | 4.4 68.6 17.3 | | | 300° | SOURCE TDV-E TDV-T | 17.7 255.9 204.7 | 11.9 171.9 171.9 | 5.8 84.0 Worst Case 32.8 Worst Case | - | 300° | SOURCE TDV-E TDV-T | 20.6 284.5 233.2 | 16.3 216.6 216.6 | 4.3 67.9 16.6 | |
| | 2.170 | SOURCE TDV-E | 12.2 272.2 | 11.0 1.3 169.2 103.1 | 0 | Vorst Case | | 0.450 | SOURCE TDV-E | 16.2 243.9 | 12.1 167.2 | 4.1 76.7 | | - | | SOURCE TDV-E | 20.4 270.6 | 16.3 211.9 | 4.1 58.7 | | | | SOURCE TDV-E | 17.3 266.7 | 11.8 164.2 | 5.5 102.5 | | | SOURCE TDV-E | 20.2 268.7 | 16.2 210.5 | 4.0 58.3 | |
| 07 0 | 345° | TDV-T SOURCE Azimuth | 220.9 19.6 | 135.5 85.4 10.5 9.0 | | | 07 | 345° | TDV-T SOURCE Azimuth | 192.6 16.5 | 167.2 11.7 | 25.4 4.8 | | | 345° | TDV-T SOURCE Azimuth | 219.3 19.3 | 211.9 15.9 | 7.5 3.4 | | | 345° | TDV-T SOURCE Azimuth | 215.5 18.8 | 164.2 11.4 | 51.3 7.4 | | 345° | TDV-T SOURCE Azimuth | 217.5 | 210.5 15.8 | 7.0 | |
| | limate Zone 15 alm Spring-Intl | (Front Orientation) | Design | Design Margi | | Vorst Case | Group | Climate Zone 15 Palm Spring-Intl | (Front Orientation) | Design | Design | Margin | Worst Case | CZ Group | Climate Zone 15 Palm Spring-Intl | (Front Orientation) | Standard Design | Proposed Design | Margin | Worst Case | CZ Group | Climate Zone 15 Palm Spring-Intl | (Front Orientation) | Standard Design | Proposed Design | Margin Worst Case | CZ Group | Climate Zone 15 Palm Spring-Intl | (Front Orientation) | Standard Design | Proposed Design | Margin | Worst Ca |
| | 30° | TDV-E TDV-T SOURCE | 234.7 146.9 10.9 | 206.1 28.6 143.0 3.9 9.9 1.0 | l. | Vorst Case | | 30° | TDV-E TDV-T SOURCE | 289.0 201.2 15.6 | 206.2 174.2 11.1 | 82.7 27.0 4.5 | | | 30° | TDV-E TDV-T SOURCE | 309.4 221.6 18.4 | 250.4 203.1 13.9 | 59.0 18.5 4.4 | | | 30° | TDV-E TDV-T SOURCE | 308.0 220.2 18.3 | 198.9 181.7 11.3 | 109.1 38.5 7.0 | | 30° | TDV-E TDV-T SOURCE | 307.5 219.7 18.2 | 249.0 200.0 13.8 | 58.5 19.7 4.4 | |
| | 75° | TDV-E TDV-T | 248.2 160.4 | 211.0 37.1 149.3 11.1 | 1 | | | 75° | TDV-E TDV-T | 300.1 212.3 | 211.1 179.7 | 89.0 32.6 | | | 75° | TDV-E TDV-T | 321.6 233.8 | 254.3 208.0 | 67.2 25.8 | | | 75° | TDV-E TDV-T | 321.9 234.2 | 204.3 187.6 | 117.6 46.6 | | 75° | TDV-E TDV-T | 319.8 232.0 | 253.2 205.1 | 66.6 26.8 | |
| | 120° | SOURCE TDV-E TDV-T | 11.6 239.8 152.0 | 10.2 1.4 209.0 30.8 149.1 2.9 | 3 | Vorst Case | | 120° | SOURCE TDV-E TDV-T | 16.3 296.0 208.2 | 11.4 209.4 179.0 | 4.9 86.6 29.2 | | | 120° | SOURCE TDV-E TDV-T | 19.3 320.6 232.8 | 14.2 252.3 207.4 | 5.0 68.3 25.4 | | | 120° | SOURCE TDV-E TDV-T | 19.3 312.6 224.9 | 11.5 202.6 186.4 | 7.7 110.0 38.5 | | 120° | SOURCE TDV-E TDV-T | 19.1 318.4 230.7 | 14.1 251.1 204.5 | 5.0 67.3 26.2 | |
| | | SOURCE TDV-E | 11.0 296.1 | 10.1 0.8 202.4 93.6 | N N | Vorst Case | | | SOURCE TDV-E | 15.8 274.8 | 11.3 203.4 | 4.6 71.4 | | | | SOURCE TDV-E | 19.0 290.6 | 14.1 246.7 | 4.9 43.9 | Worst Case | | | SOURCE TDV-E | 18.5 267.7 | 11.4 195.7 | 7.1 72.0 Worst Case | | | SOURCE TDV-E | 18.9 288.6 | 14.0 245.2 | 4.9 43.4 | Worst Ca |
| | 165° | TDV-T SOURCE TDV-E | 208.3 17.3 308.7 | 9.5 7.9 204.7 103.1 | | | D | 165° | TDV-T SOURCE TDV-E | 187.0 14.4 287.6 | 171.3 10.8 206.5 | 15.7 3.5 81.0 | | D | 165° | TDV-T SOURCE | 202.8 16.9 | 199.3 13.6 | 3.5 3.3 | Worst Case Worst Case | D | 165° | TDV-T SOURCE | 180.0 14.5 | 178.6 10.9 | 1.4 Worst Case 3.5 Worst Case | | 165° | TDV-T SOURCE | 200.8 16.7 309.8 | 196.1 13.4 248.1 | 4.7 3.3 61.7 | Worst Ca Worst Ca |
| | 210° | TDV-T SOURCE | 220.9 18.5 | 141.7 79.2 9.8 8.7 | 2 | | | 210° | TDV-T SOURCE | 199.8 15.6 | 174.5 11.2 | 25.3 4.4 | | | 210° | TDV-E TDV-T SOURCE | 311.8 224.0 18.6 | 249.5 202.2 13.9 | 62.2 21.7 4.7 | | | 210° | TDV-E TDV-T SOURCE | 309.6 221.8 18.4 | 198.8 181.7 11.3 | 110.8 40.1 7.1 | | 210° | TDV-E TDV-T SOURCE | 222.1 18.5 | 199.1 13.8 | 23.0 4.7 | |
| | 255° | TDV-E TDV-T | 323.3 235.5 19.6 | 210.0 113.1 148.3 87.2 | 2 | | | 255° | TDV-E TDV-T SOURCE | 276.0 188.2 15.3 | 211.3 180.0 11.4 | 64.7 8.3 3.9 | | | 255° | TDV-E TDV-T | 326.8 239.0 | 253.5 207.2 | 73.2 31.8 | | | 255° | TDV-E TDV-T | 301.1 213.4 | 205.1 188.3 | 96.0 25.0 | | 255° | TDV-E TDV-T | 325.0 237.3 | 252.4 204.4 | 72.6 32.9 | |
| | 300° | SOURCE TDV-E TDV-T | 313.5 225.7 | 10.2 9.4 208.9 104. 146.8 78.9 | 6 | | | 300° | TDV-E TDV-T | 284.3 196.6 | 210.0 178.5 | 74.3 18.1 | | | 300° | SOURCE TDV-E TDV-T | 19.8 317.1 229.3 | 14.2 252.7 206.1 | 5.6 64.4 23.2 | | | 300° | SOURCE TDV-E TDV-T | 17.0 293.1 205.4 | 11.6 203.5 186.7 | 5.4 89.6 18.7 | 1 | 300° | SOURCE TDV-E TDV-T | 19.6 315.2 227.4 | 14.0 251.5 203.2 | 5.6 63.7 24.3 | |
| | | SOURCE TDV-E | 18.7 300.6 | 9.9 8.8 203.2 97.4 | 4 | | | | SOURCE TDV-E | 15.2 260.9 | 11.2 203.6 | 4.0 57.3 | Worst Case | | | SOURCE TDV-E | 18.8 298.7 | 14.0 247.7 | 4.9 51.1 | | | | SOURCE TDV-E | 16.2 269.8 | 11.4 196.2 | 4.9 73.6 | 1 | | SOURCE TDV-E | 18.7 296.8 | 13.8 246.3 | 4.9 50.5 | |
| | 345° | TDV-T SOURCE | 212.9 17.6 | 140.0 72.8 9.5 8.1 | | | | 345° | TDV-T SOURCE | 173.2 13.5 | 171.6 10.8 | 1.6 2.7 | Worst Case Worst Case | | 345° | TDV-T SOURCE | 211.0 17.4 | 200.3 13.6 | 10.7 3.8 | | | 345° | TDV-T SOURCE | 182.0 14.6 | 179.1 11.0 | 3.0 3.6 | | 345° | TDV-T SOURCE | 209.0 17.2 | 197.1 13.4 | 11.9 3.8 | |

Interconnection Pathways

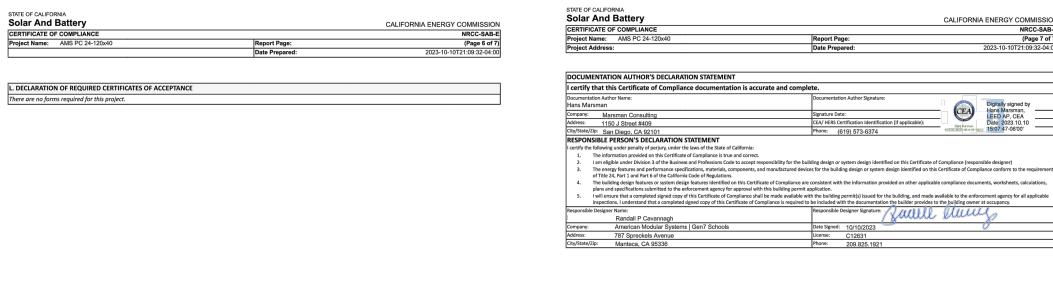
Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to A2.0 Roofing Plan for Solar the electrical service/ water heating system per \$110.10(c).

FOOTNOTE: This field is used to document how the percentage of annual solar access was determined per \$110.10(b)18. Solar access is the ratio of solar insolation including shade to the solar insolation without shade. Shading from obstructions located on the roof or any other part of the building shall not be included in the determination of annual solar access. G. PERMANENTLY INSTALLED SOLAR PV FOR SOLAR READY EXCEPTION This section does not apply to this project. H. PERMANENTLY INSTALLED SOLAR HOT WATER SYSTEMS This section does not apply to this project. I. SMART THERMOSTATS AND ALTERNATIVE EFFICIENCY MEASURE FOR SOLAR READY EXCEPTION This section does not apply to this project. This section does not apply to this project. K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included Table E. Additional Remarks and ExceptionalConditionMessageCCSABE += UserChangedSelectionInCl. These documents must be provided to the building inspector during construction and can be found online

Form/Title NRCI-SAB-01-E - Must be submitted for all buildings that must comply with solar readiness or PV/Battery requirements.

Generated Date/Time:

Compliance ID: 92981-1023-0032 Report Generated: 2023-10-10 18:09:34



| Energy Efficiency Standards - 2022 Nonresidential Compliance | Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101 | Documentation Software: Energy Code Ace Compliance ID: 92981-1023-0032 Report Generated: 2023-10-10 18:09:34 | CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101 |
|--|--|--|--|--|

Documentation Software: Energy Code Ace Compliance ID: 92981-1023-0032 Report Generated: 2023-10-10 18:09:34

Generated Date/Time: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101

Documentation Software: Energy Code Ace

Compliance ID: 92981-1023-0032 Report Generated: 2023-10-10 18:09:34

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.

PLEASE RECYCLE 🖏

Documentation Software: Energy Code Ace CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 92981-1023-0032 Report Generated: 2023-10-10 18:09:34 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101

Solar And Battery

CA Building Energy I

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

AMS PC 36x40

Title 24 Analysis

Nonresidential

New complete scope

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Nonresidential Performance Compliance Method

C8. ENERGY USE INTENSITY (EUI)

GROSS EUI¹

Nonresidential Performance Compliance Method

C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS

TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)

¹ Notes: This table is not used for Energy Code Compliance.

Other Ltg

Process Motors

Non-Regulated Energy Component

AMS PC 36x40 Date Prepared:

7 Compliance Software (version) CBECC 2022.3.0 (1302)

Proposed Design (TDV)

65.89

240.74

Compliance 2022

FRESNO-YOSEMITE STYP20.epw

Report Generated: 2023-09-03 10:45:10

NRCC-PRF-E

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Compliance Margin (TDV)¹

30.03 (11.1%)

Report Generated: 2023-09-03 10:45:10

5 Standards Version

11 Weather File

17 Fuel Type

Schema Version: rev 20220601

Standard Design (TDV)

65.89

9 Building Orientation (deg)

13 Number of Dwelling Units

15 Total # of hotel/motel rooms

19 Total # of Stories (Habitable Above Grade)

Nonresidential Performance Compliance Method

Project Name:

1 Project Name

3 Project Location

2 Run Title

6 Zip code

8 Climate Zone

10 Building Type(s)

12 Project Scope

Floor Area

14 Total Conditioned Floor Area in Scope (ft²)

Total Unconditioned Floor Area (ft²)

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 02-122975 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

DATE

HMC Architects

3595001000

2101 CAPITOL AVENUE, SUITE 100 SACRAMENTO, CA 95816

916 368 7990 / www.hmcarchitects.com

△ **DESCRIPTION**

KEYNOTES

GENERAL NOTES

FACILITY:

PROJECT:

DATE: 04/03/24

2421 W LOWELL AVE

TRACY, CA 95377

ART FREILER ELEMENTARY SCHOOL

ART FREILER ES - TK CLASSROOM

ENERGY CALCULATIONS 36'x40' BUILDING GROUP 'C'

2022 CBC PRE-CHECK (PC) DOCUMENT

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION

PROJECT NO:

ENERGY CALCULATIONS 36'x40' BUILDING

American Modular Systems 787 Spreckels Ave., Manteca, CA 95336 Phone (209) 825-1921 Fax (209) 825-7018 www.americanmodular.com

NRCC-PRF-E

(Page 4 of 18)

Compliance Margin (TDV)¹

-6.77

-15.8

41.17

11.43

30.03 (14.7%)

NRCC-PRF-E

(Page 8 of 18)

NRCC-PRF-E

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PRE-CHECKED SET NAME 24' x 40' THRU 120' x 40' STANDARD MODULAR BUILDING

SITE SPECIFIC PROJECT NAME

APPROVED DIV. OF THE STATE ARCHITECT APP: 04-122050 PC SS D FLS D ACS Q CG D

MANUFACTURER PROFESSIONAL OF RECORD ON PC

UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

DRAWN BY: AA AS NOTED MM/DD/YY

XXXX-22 SHEET TITLE:

GROUP 'C'

SHEET NUMBER:

NRCC-PRF-E CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD (Page 1 of 18) Nonresidential Performance Compliance Method 2023-09-03 B. PROJECT SUMMARY

(Page 2 of 18) Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the **Building Components Complying via Performance** Building Components Complying Prescriptively Nonres Performance Solar Thermal Water Envelope (See Table G)

Nonres

Perrormance

Solar Thermal Water
Heating (See Table I3)

Not Included

Index Lighting (Lipconditioned) 140.6 & NRCC-ITI-E included) Nonres Performance Covered Process: Performance Indoor Lighting (Unconditioned) 140.6 & NRCC-LTI-E is 170.2(e) required Mechanical (See Table H) Commercial Kitchens (see | MultiFam | Not Included | Table J) | 🖂 | Not Included | Outdoor Lighting 140.7 & 170.2(e) Domestic Hot Water (See Table I)

Nonres

Not Included

Covered Process:
Laboratory Exhaust (see Table J)

Not Included

Covered Process:
Laboratory Exhaust (see Table J)

Not Included

Building Components Complying with Mandatory Measures Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented Photovoltaics (see Table shown on the NRCC-PRF-E.) see Table K) Not Included Electrical Power Distribution 110.11 NRCC-ELC-E is required MultiFam Not Included NRCC-CXR-E is required NRCC-SAB-E is

Schema Version: rev 20220601

COMPLIES²

Standard Design (SOURCE)

4.36

15.2

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft²/yr)

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Building Story Name

Surface Name Construction Type Area (ft²) Framing Type Cavity R-Value Interior Exterior Units Value

Floor over Crawlspace Exterior Floor 1,440 N/A 0 N/A N/A U-factor 0.104 Concrete - 140 lb/ft3 - 2 in.

Schema Version: rev 20220601

Nonresidential Performance Compliance Method

Nonresidential Performance Compliance Method

Space Cooling

Indoor Fans

Heat Rejection

Pumps & Misc.

Indoor Lighting

TOTAL COMPLIANCE

Ext Roof

Flexibility

Domestic Hot Water

EFFICIENCY COMPLIANCE TOTAL

Energy Component

Nonresidential Performance Compliance Method (Page 3 of 18) C1. COMPLIANCE SUMMARY COMPLIES³ Time Dependent Valuaton (TDV) Source Energy Use Total² (kBtu/ft² - yr) Efficiency¹ (kBtu/ft² - yr) Total² (kBtu/ft² - yr) Standard Design 204.88 174.85 174.85 12.43 Compliance Margins 30.03 30.03 ¹ Efficiency measures include improvements like a better building envelope and more efficient equipment ² Compliance Totals include efficiency, photovoltaics and batteries ³ New Construction, Complete Addition Scope: Building complies when all efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits Existing, Addition and Alteration Scope: Building complies when efficiency compliance margin is greater than or equal to zero and unmet load hour limits are not exceeded

Schema Version: rev 20220601

Standard Design (SOURCE)

17.36

☐ This project is pursuing CalGreen Tier 2

4.93

NRCC-PRF-E

Report Generated: 2023-09-03 10:45:10

2.77 (13.8%)

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Nonresidential Performance Compliance Method

Other Ltg

Process Motors

C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS

TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)

¹ Notes: This table is not used for Energy Code Compliance

This project is pursuing CalGreen Tier 1

Non-Regulated Energy Component

TOTAL COMPLIANCE 204.88 174.85 30.03 (14.7%) ¹ Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-09-03 10:45:10 Schema Version: rev 20220601

COMPLIES²

Standard Design (TDV)

99.19

204.88

Proposed Design (TDV)

39.75

114.99

10.24

174.85

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E (Page 7 of 18) Nonresidential Performance Compliance Method C7. ENERGY USE SUMMARY Proposed Design (SOURCE) Compliance Margin (SOURCE)¹ **Energy Component**

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)

Nonresidential Performance Compliance Method

Space Heating

Space Cooling

Indoor Fans

Heat Rejection

Pumps & Misc.

Indoor Lighting

Flexibility

Domestic Hot Water

EFFICIENCY COMPLIANCE TOTAL

Energy Component

Standard Design Site Proposed Design Site Margin (MWh) (MWh) Standard Design Site Proposed Design Site (MBtu) (MBtu) (MBtu) Space Heating Space Cooling 3.9 -0.6 Indoor Fans Heat Rejection Pumps & Misc. Indoor Lighting 3.8 Other Ltg Process Motors

ENERGY USE TOTAL 11.1 Report Generated: 2023-09-03 10:45:10 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Nonresidential Performance Compliance Method

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E Nonresidential Performance Compliance Method (Page 11 of 18) **G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL)** Assembly Name Overall U-factor Status¹ ¹ Status: N - New, A - Altered, E - Existing G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL) Assembly Method Area (ft²) U-factor Overall SHGC Overall VT Status² Fenestration Type/ Product Type / Frame Type **Assembly Name** NFRC Manufactured 240 0.42 0.25 Windows Fixed window ¹ Notes: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.

² Status: N - New, A - Altered, E - Existing Heating Equipment Name Equipment Type Qty Total Heating Output (kBtu/h) Supp Heat (kBtu/h) Efficiency Unit Efficiency Unit (kBtu/h) Efficiency Unit (kBtu/h) Efficiency Cooling Output (kBtu/h) Efficiency Unit (kBtu/h) Efficiency Cooling Output (kBtu/h) Efficiency Unit (kBtu/h) Efficiency Unit (kBtu/h) Efficiency Unit (kBtu/h) FC-1 Heat Pump Air
System ¹ Status: N - New, A - Altered, E - Existing

 Name or Item Tag
 Oesign OA CFM
 Supply Fan
 Supply Fan
 Return / Relief Fan

 CFM
 Power Units
 Control
 Fan Type
 CFM
 Power Units
 Control
 FC-1 1 547.2 1,600 0.7 InH2O VSD N/A N/A N/A N/A N/A N/A N/A N ¹ Status: N - New, A - Altered, E - Existing H8. SYSTEM SPECIAL FEATURES Package SZ VAV Heat Pump Air System Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the 1 Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings. H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION 02 03 04 05 Zone Name Zn FC-1 L01 547.2

Margin Percentage 11.89 11.89

NRCC-PRF-E

(Page 9 of 18)

D1. EXCEPTIONAL CONDITIONS The building does not include service water heating. Verify that service water heating is not required and is not included in the design. • Project is claiming Exception 2 to Section 140.10(a): No PV system is required where the required PV system size is less than 4 kWdc. • Project is claiming Exception 2 to Section 140.10(b): No battery storage system is required in buildings with battery storage system requirements with less than 10 kWh rated • Project is claiming Exception 3 to Section 140.10(b): No battery storage system required for tenant spaces less than or equal to 5,000 ft2. 01 Total Gross Surface Area (ft²) Window to Wall Ratio (%) West-Facing⁴

Standard Design (kBtu/ft² / yr) Proposed Design (kBtu/ft² / yr)

¹North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW), ²East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE), ³South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE), 4West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW), CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

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Proposed Design (SOURCE) Compliance Margin (SOURCE)¹

4.96

12.43

Air Barrier

Air barrier - not verified

Plywood - 1/2 in.

Acoustic Tile - 3/8 in

Wood siding - 1/2 in

Gypsum Board - 1/2 in.

Vapor permeable felt - 1/8 in.

NRCC-PRF-E

(Page 6 of 18)

0.94

2.77 (18.2%)

2.77 (18.2%)

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NRCC-PRF-E

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Exhaust CFM Conditioned Area (sf)

CLIENT PROJ NO: **3595001000**

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 02-122975 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

DATE

HMC Architects

3595001000

2101 CAPITOL AVENUE, SUITE 100 SACRAMENTO, CA 95816

916 368 7990 / www.hmcarchitects.com

△ **DESCRIPTION**

KEYNOTES

GENERAL NOTES

FACILITY: ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE TRACY, CA 95377

PROJECT:

ART FREILER ES - TK CLASSROOM

SHEET NAME: ENERGY CALCULATIONS 36'x40' BUILDING GROUP 'C'

CLIENT PROJ NO: 359500100

ADDENDUM "A"

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E Nonresidential Performance Compliance Method (Page 13 of 18) Nonresidential Performance Compliance Method H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY K2. INDOOR CONDITIONED LIGHTING SCHEDULE Rated Capacity (kBtuh) Airflow (cfm) Fai Fan Heating Cooling Design Mln. Min. Ratio Power Units Cycles VSI Complete Luminaire
Description (i.e. 3-lamp
fluorescent troffer, F32T8, Installed Watts (Conditioned) Variable Air Volume No 1 N/A N/A 1,600 650 0.41 N/A N/A N/A FC-1_TRM one dimmable electronic ballast) Watts per luminaire How is Wattage determined Total Number of Luminaires Reheat Box K1. INDOOR CONDITIONED LIGHTING GENERAL INFO ¹If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details. Additional (Custom) Allowance K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS Area Category Footnotes
(Watts)

Area Category Footnotes
(Watts) Occupancy Type¹ Conditioned Floor Area² (ft²) (Watts) Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per 140.6(a)2 and Table 140.6-A) Classroom, Lecture, or 1440 0 Area Description

Primary Function Area (must meet requirements of Table 140.6-A and 170.2-L)

Type of Lighting Control

Type of Lighting Control

Power Adjustment Factor (PAF)

Luminaire

Watts per Luminaires

of Lighting Controlled (Watts)

Control Credit (Watts) Training Vocational Building Totals: ¹See Table 140.6-C ²See NRCC-LTI--E for unconditioned spaces Training Vocational

> K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL **Building Level Controls** Shut-Off Controls 130.1(c) & 160.5(b)4C Mandatory Demand Response 110.12(

Training Vocational

Classroom 101

N/A

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

Indoor Lighting

NRCA-LTI-03-A - Automatic Daylight Controls.

NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with

NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with Report Generated: 2023-09-03 10:45:10 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Building Component

Indoor Lighting

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Area Level Controls (includes all lighting controls installed in conditioned space to meet mandatory requirements per 130.1)

NRCI-MCH-01-E - Must be submitted for all buildings

to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls.

NRCA-ENV-02-F - NRFC label verification for fenestration

03 04 05 06 07 08 09

Area Description Area Category Primary Function Area

Classrooms Skylit Zn

Classroom, Lecture, or Training Vocational

Required Required Required Required Required Required Required NA

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained

Indoor Lighting

Indoor Lighting

NRCI-LTI-E - Indoor Lighting (for all buildings)

NRCI-LTI-E - Indoor Lighting (for all buildings)

NRCI-LTI-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for ...

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided

Nonresidential Performance Compliance Method

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

provided to the building inspector during construction and can be found online

Building Component

Sovelone NRCI-ENV-01-E - Must be submitted for all buildings

Mechanical NRCI-MCH-U1-E - Must be submitted for all buildings

Mechanical NRCI-MCH-E - For all buildings with Mechanical Systems

Plumbing NRCI-PLB-01-E - Must be submitted for all buildings

Indoor Lighting NRCI-LTI-01-E - Must be submitted for all buildings

Envelope NRCI-ENV-01-E - Must be submitted for all Envelope NRCI-ENV-E - Envelope (for all buildings)

Report Generated: 2023-09-03 10:45:10 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided

Mechanical (refer to) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.

Mechanical NRCA-MCH-07-A Supply Fan Variable Flow Controls

Mechanical NRCA-MCH-19-A Occupancy Sensor Controls

Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained

There are no Certificates of Verification applicable to this project

NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation

to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Nonresidential Performance Compliance Method

Mechanical

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

and provided to the building inspector during construction and can be found online

NRCC-PRF-E

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Report Generated: 2023-09-03 10:45:10 Schema Version: rev 20220601

NRCC-PRF-E

(Page 16 of 18)

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2022 CBC PRE-CHECK (PC) DOCUMENT MANUFACTURER PROFESSIONAL OF RECORD ON PC

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DRAWN BY: AA AS NOTED MM/DD/YY XXXX-22 PROJECT NO:

ENERGY CALCULATIONS 36'x40' BUILDING

EN.15



Jamil Munis

Raull llums

Report Generated: 2023-09-03 10:45:10

Scope: Mechanical

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

1. I certify that this Certificate of Compliance documentation is accurate and complete.

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.

occupancy, and I will take the necessary steps to accomplish these requirements.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

cumentation Author Signature:

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

The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this

. 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. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to

6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at

Date Signed: 09/05/23

Date Signed: 09/05/23

License #: C12631

Title: Architect

Responsible Designer Signature:

License #: C12631 Title: Architect

Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.

Occumentation Author Name: Hans Marsman, CEA, LEED AP BD+C

Nonresidential Performance Compliance Method

Documentation Author's Declaration Statement

Responsible Person's Declaration statement

Compliance (responsible designer)

Responsible Designer Name: Randall P Cavannagh

Responsible Designer Name: Randall P Cavannagh

Company: American Modular Systems | Gen7 Schools

Address: 787 Spreckels Avenue

Address: 787 Spreckels Avenue

Phone: 209.825.1921

City/State/Zip: Manteca, CA 95336

City/State/Zip: Manteca, CA 95336

Company: American Modular Systems | Gen7 Schools

Company: Marsman Consulting

Address: 1150 J Street #409 City/State/Zip: San Diego, CA 92101

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E Nonresidential Performance Compliance Method (Page 18 of 18) esponsible Designer Name: Randall P Cavannag Haull llucy Company: American Modular Systems | Gen7 Schools Address: 787 Spreckels Avenue City/State/Zip: Manteca, CA 95336 Phone: 209.825.1921 Title: Architect

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

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NRCC-PRF-E

(Page 14 of 18)

Installed Watts

2x4 LED 45 6 270 0

Lighting Control Credits (Conditioned) Total (Watts) 0

SITE SPECIFIC PROJECT NAME

REVISIONS

GROUP 'C'

Indoor Lighting

CERTIFICATE OF COMPLIANCE

A. GENERAL INFORMATION

Project Location (city)

141.0(b)2 / 180.2(b)4 for alterations.

New Lighting System - Parking Garage

Total Area of Work (ft²)

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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

This section does not apply to this project.

his section does not apply to this project.

his section does not apply to this project.

his section does not apply to this project.

This section does not apply to this project.

Registration Number:

Outdoor Lighting

CERTIFICATE OF COMPLIANCE

C. COMPLIANCE RESULTS

Registration Number:

Registration Number:

Indoor Lighting

CERTIFICATE OF COMPLIANC

path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for

nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive

Generated Date/Time:

Generated Date/Time:

AMS PCs Ext Ltg - T24-22 Report Page:

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refe

Generated Date/Time:

Report Version: 2022.0.000

Report Version: 2022.0.000

Schema Version: rev 20220101

Report Version: 2022.0.000

Total Conditioned Floor Area (ft²)

l Unconditioned Floor Area (ft²)

Documentation Software: Energy Code Ace

Documentation Software: Energy Code Ace

Compliance ID: 93007-0323-0004

(Page 2 of 2

Documentation Software: Energy Code Ace

Compliance ID: 92981-0323-0007

NRCC-LTO-E

Compliance ID: 93007-0323-0004

Indoor Lighting

Project Name:

CERTIFICATE OF COMPLIANCE

C. COMPLIANCE RESULTS

D. EXCEPTIONAL CONDITIONS

Registration Number:

Indoor Lighting

CERTIFICATE OF COMPLIANCE

f any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)

[See Table I]

Lighting in Conditioned and unconditioned spaces must not be combined for compliance per 140.6(c)1

[See Table I]

O1
O2
O3
O4

Area
Category Additional 140.6(c)3 / 140.6(c)2 / 170.2(e)4B
170.2(e)4Av (+) (+)
(See Table I) (See Table I) (See Table I) (See Table I)

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Complete Luminaire Description

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.

EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

1FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)

Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)

NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls

This section does not apply to this project.

his section does not apply to this project

NRCI-LTI-E - Must be submitted for all buildings

T. DWELLING UNIT LIGHTING

Registration Number:

Outdoor Lighting CERTIFICATE OF COMPLIANCE

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

Project Name:

the project scope.

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

CALIFORNIA ENERGY COMMISSION

Total Allowed (Watts)

Generated Date/Time:

Form/Title

Generated Date/Time:

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within

the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being

installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor

³ Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of

Generated Date/Time:

Report Version: 2022.0.000

Watts per luminaire^{1, 2} determined How is Wattage determined Luminaires² Uminaires³ Luminaires Status³ Excluded per 140.7(a) / 170.2(e)6A Design Watts lumen output 130.2(b) / Pas

Report Version: 2022.0.000

Form/Title

Report Version: 2022.0.000

(Page 2 of 7 2023-03-06T11:31:48-05:00

05 must be >= 08

Documentation Software: Energy Code Ace

Compliance ID: 93007-0323-0004

Systems/Spaces To Be Field Verified

Documentation Software: Energy Code Ace

Report Generated: 2023-03-06 08:31:50

Compliance ID: 93007-0323-0004

Cutoff Req. > Field | Inspector

Documentation Software: Energy Code Ace

Report Generated: 2023-03-06 07:40:22

Compliance ID: 92981-0323-0007

Registration Number:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

NRCC-LTO-E

(Page 3 of 7 2023-03-06T10:40:21-05:00

NRCC-LTI-E

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HMC Architects

3595001000

2101 CAPITOL AVENUE, SUITE 100 SACRAMENTO, CA 95816

△ **DESCRIPTION** DATE

ENERGY CALCULATIONS SUPPLEMENTAL SHEET

SHEET NUMBER:

Documentation Software: Energy Code Acc

Compliance ID: 92981-0323-0007

Report Generated: 2023-03-06 07:40:22

PLEASE RECYCLE 🖧

| STATE OF CALIFORNIA Indoor Lighting CALIFORNIA ENERGY COMMISSION | STATE OF CALIFORNIA Indoor Lighting CALIFORNIA ENERGY COMMISSION | |
|--|--|---|
| CERTIFICATE OF COMPLIANCE Project Name: AMS PC 24x40 UC Ltg Report Page: (Page 3 of 7) | CERTIFICATE OF COMPLIANCE NRCC-LTI-E Project Name: AMS PC 24x40 UC Ltg Report Page: (Page 4 of 7) Date Prepared: 2023-03-06T11:31:48-05:00 | |
| Date Prepared: 2023-03-06T11:31:48-05:00 | Date Prepared: 2023-03-06T11:31:48-05:00 | |
| F. INDOOR LIGHTING FIXTURE SCHEDULE This table includes all planned permanent and portable lighting other than dwelling unit/hotel/motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is | H. INDOOR LIGHTING CONTROLS (Not including PAFs) Area Level Controls | American Modular Systems |
| documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here. Designed Wattage: Unconditioned Spaces | 04 05 06 07 08 09 10 11 12 Complete Building or Area Controls Shut-Off Control Shut-Off Contro | 787 Spreckels Ave., Manteca, CA 95336 |
| 01 02 03 04 05 06 07 08 09 10 Name or Item Complete Luminaire Modular Aperture & Ape | Area Description | Phone (209) 825-1921 Fax (209) 825-7018 www.americanmodular.com |
| Tag Description (Track) Fixture Color Change Luminaire determined of Luminaires 140.0(a) 7 170.2(e) 2C Pass Fail 2x4 LED 2x4 LED No NA 50 Mfr. Spec 4 No 200 | Restrooms Restroom Readily Accessible NA: Restrooms Occupancy Sensor daylit zone daylit zone Application Restroom Restrooms Restrooms Restrooms Restrooms Restrooms Restrooms Occupancy Sensor Restrooms Restrooms Restrooms Occupancy Sensor Restrooms Restroom | INTELLECTUAL PROPERTY & PROPRIETARY DICUTE CTATEMENT |
| 40W Incandescent | Plumb Chase Electrical Mechancial Readily Accessible Ltg <= 0.5W/SF NA: Elec. equip. rm NA: Not daylit zone No | INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS) AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY |
| ¹ FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05. | Plan Sheet Showing Daylit Zones: | RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING |
| ² Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp. | I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per | WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR DISPOSED OF MAY NOT BE USED. (IN MAIL OF A SOLECT IN THE |
| G. MODULAR LIGHTING SYSTEMS This section does not apply to this project. | 140.6(c) or adjustments per 140.6(a) are being used . Unconditioned Spaces | INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, |
| H. INDOOR LIGHTING CONTROLS (Not including PAFs) | 01 02 03 04 05 06 Area Description Complete Building or Area Category Primary Function Area (W/ft²) Area (ft²) (Watts) Area Category PAF | APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION |
| This table includes lighting controls for conditioned and unconditioned spaces. Building Level Controls | Restrooms Restroom 0.65 365 237.25 No No No Plumb Chase Electrical Mechanical Telephone Room 0.4 115 46 No No | IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS. |
| 01 02 03 Mandatory Demand Response 110.12(c) Shut-off controls 130.1(c) / 160.5(b)4C Field Inspector Pass Fail | TOTALS: 480 283.25 See Tables J, or P for detail | PRE-CHECKED SET NAME |
| NA < 4,000W subject to multilevel See Area/Space Level Controls | J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM This section does not apply to this project. | 24' x 40' THRU 120' x 40' STANDARD MODULAR BUILDING |
| Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace | Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace | (LOW SEISMIC) |
| CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 93007-0323-0004 Schema Version: rev 20220101 Report Generated: 2023-03-06 08:31:50 | CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 93007-0323-0004 Schema Version: rev 20220101 Report Generated: 2023-03-06 08:31:50 | |
| | | - FORM |
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| STATE OF CALIFORNIA Indoor Lighting CALIFORNIA ENERGY COMMISSION | STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION | SITE SPECIFIC PROJECT NAME |
| INGOOF LIGHTING CERTIFICATE OF COMPLIANCE Project Name: AMS PC 24x40 UC Ltg Report Page: CALIFORNIA ENERGY COMMISSION RECC-LTI-E Project Name: (Page 7 of 7) | CERTIFICATE OF COMPLIANCE This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for | · |
| Project Address: Date Prepared: 2023-03-06T11:31:48-05:00 | nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities. Project Name: AMS PCs Ext Ltg - T24-22 Report Page: (Page 1 of 7) | · |
| DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete. | Project Address: Date Prepared: 2023-03-06T10:40:21-05:00 | · |
| Documentation Author Name: Hans Marsman Company: Marsman Consulting Documentation Author Signature: Digitally signed by Hans Marsman, LEED AD CEA | A. GENERAL INFORMATION 01 Project Location (city) Palmdale 04 Total Illuminated Hardscape Area (ft²) 0 | |
| Address: 1150 J Street #409 CEA/ HERS Certification Identification (if applicable): City/State/Zip: San Diego, CA 92101 Phone: (619) 573-6374 City/State/Zip: San Diego, CA 92101 CEA/ HERS Certification (if applicable): City/State/Zip: San Diego, CA 92101 CEA/ HERS Certification (if applicable): City/State/Zip: San Diego, CA 92101 CEA/ HERS Certification (if applicable): City/State/Zip: San Diego, CA 92101 CEA/ HERS Certification (if applicable): City/State/Zip: San Diego, CA 92101 CEA/ HERS Certification (if applicable): City/State/Zip: San Diego, CA 92101 CEA/ HERS Certification (if applicable): City/State/Zip: San Diego, CA 92101 CEA/ HERS Certification (if applicable): City/State/Zip: San Diego, CA 92101 CEA/ HERS Certification (if applicable): City/State/Zip: San Diego, CA 92101 CEA/ HERS Certification (if applicable): City/State/Zip: San Diego, CA 92101 CEA/ HERS Certification (if applicable): City/State/Zip: San Diego, CA 92101 CEA/ HERS Certification (if applicable): City/State/Zip: San Diego, CA 92101 CEA/ HERS Certification (if applicable): City/State/Zip: San Diego, CA 92101 CEA/ HERS CERTIFICATION (If applicable): City/State/Zip: San Diego, CA 92101 CEA/ HERS CERTIFICATION (If applicable): City/State/Zip: San Diego, CA 92101 CEA/ HERS CERTIFICATION (If applicable): City/State/Zip: San Diego, CA 92101 CEA/ HERS CERTIFICATION (If applicable): City/State/Zip: San Diego, CA 92101 CEA/ HERS CERTIFICATION (If applicable): City/State/Zip: San Diego, CA 92101 CEA/ HERS CERTIFICATION (If applicable): City/State/Zip: San Diego, CA 92101 CEA/ HERS CERTIFICATION (If applicable): City/State/Zip: San Diego, CA 92101 CEA/ HERS CERTIFICATION (If applicable): City/State/Zip: San Diego, CA 92101 CEA/ HERS CERTIFICATION (If applicable): City/State/Zip: San Diego, CA 92101 CEA/ HERS CERTIFICATION (If applicable): City/State/State/State/State/State/State/State/State/State/State/State/State/State/State/State/State/State/State/State | 02 Climate Zone 14 | APPROVED DIV. OF THE STATE ARCHITECT |
| 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) | □ LZ-1: Low - Rural Areas □ LZ-3: Moderately High - Urban Areas O5 Occupancy Types within Project | APP: 04-122058 PC |
| 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. 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, | • Classroom | REVIEWED FOR |
| 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 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 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 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 building permit(s) issued for the | B. PROJECT SCOPE This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / | DATE: 12/11/2023 |
| Randall P Cavannagh Company: American Modular Systems Gen7 Schools Address: 787 Spreckels Avenue License: C12631 | 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations. My Project Consists of: 01 02 | |
| City/State/Zip: Manteca, CA 95336 Phone: 209.825.1921 | New Lighting System Must Comply with Allowances from 140.7 / 170.2(e)6 □ Altered Lighting System Is your alteration increasing the connected lighting load (Watts)? Yes No | |
| | 03 04 05 % of Existing Luminaires Being Altered 1 Sum Total of Luminaires Being Added or Altered Calculation Method | 2022 CBC PRE-CHECK (PC) DOCUMENT A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED. |
| | < 10% >= 10% and < 50% >= 50% | MANUFACTURER PROFESSIONAL OF RECORD ON PC |
| | 100 Ho 153. 76 by Existing Cultimatics Being Antered — Sum Total by Earlinean Antered Carachy Existing Cultimatics Such Antered — Sum Total by Earlinean Sum Total by | CENSED ARCHITICAL |
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| CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 93007-0323-0004 Schema Version: rev 20220101 Report Generated: 2023-03-06 08:31:50 | CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 92981-0323-0007 Schema Version: rev 20220101 Report Generated: 2023-03-06 07:40:22 | Ren. <u>3-31-25</u> |
| | | OF CALIFO |
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| STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E | STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E | |
| Project Name: AMS PCs Ext Ltg - T24-22 Report Page: (Page 4 of 7) Date Prepared: 2023-03-06T10:40:21-05:00 | Project Name: AMS PCs Ext Ltg - T24-22 Report Page: (Page 5 of 7) Date Prepared: 2023-03-06T10:40:21-05:00 | |
| H. OUTDOOR LIGHTING CONTROLS | J. LIGHTING ALLOWANCE: PER APPLICATION | |
| This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application. | This table includes areas using the wattage allowance per application from Table 140.7-B / Table 170.2-S. 01 02 03 04 05 06 07 08 09 10 | |
| Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit | Area Description Application per Table 140.7-B ¹ Additional Allowance | THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD. |
| Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings 01 02 03 04 05 | Locations Locations Locations Locations Locations Locations Locations Locations Locations Locations Locations Locations Luminaire Luminaires Luminai | REVISIONS |
| Area Description Shut-Off 130.2(c)1 / 160.5(c) Auto-Schedule Motion Sensor Field Inspector 130.2(c)2 / 160.5(c) 130.2(c)3 / 160.5(c) Pass Fail | Door Total Design Watts for this Area: 17 | <u>/1\</u> |
| Entry Door(s): "Ext Ltg Fixture @ Door" | Total Allowance (Watts) All Areas: 17 FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities. The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B/Table 170.2-S. | $\frac{\angle 2\Delta}{\sqrt{3}}$ |
| ² Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source. ³ Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii. | ³ For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires. | |
| I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e)) This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" "Use it or lose it" Allowance (select all that apply) (select all that apply) | K. LIGHTING ALLOWANCE: SALES FRONTAGE This section does not apply to this project. | DRAWN BY: AA |
| Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance. | L. LIGHTING ALLOWANCE: ORNAMENTAL This section does not apply to this project | SCALE: AS NOTED |
| Court of the country of another "Use it or lose it" allowance. Court of the country of another "Use it or lose it" allowance. Court of the country of another "Use it or lose it" allowance. Country of another "Use it or | This section does not apply to this project. M. LIGHTING ALLOWANCE: PER SPECIFIC AREA | DATE: MM/DD/YY PROJECT NO: XXXX-22 |
| | This section does not apply to this project. | SHEET TITLE: |
| | N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only) | |

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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Report Version: 2022.0.000

This section does not apply to this project.

Registration Number:

Documentation Software: Energy Code Ace

Compliance ID: 92981-0323-0007

Report Generated: 2023-03-06 07:40:22

Generated Date/Time:

Report Version: 2022.0.000

916 368 7990 / www.hmcarchitects.com

KEYNOTES

GENERAL NOTES

FACILITY: ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE TRACY, CA 95377

PROJECT: ART FREILER ES - TK CLASSROOM

SHEET NAME: **ENERGY CALCULATIONS SUPPLEMENTAL SHEET**

DATE: 04/03/24 CLIENT PROJ NO: 3595001000

STATE OF CALIFORNIA

roject Name:

Outdoor Lighting

Registration Number:

Domestic Water Heating System

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

CERTIFICATE OF COMPLIANCE

Fluid Temperature Range (°F)

Registration Number:

CERTIFICATE OF COMPLIANCE

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

RCI-LTO-E - Must be submitted for all buildings

Form/Title

Generated Date/Time:

AMS PCs Water Heating - T24-22 Report Page

This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in 120.3 and 140.5. For multifamily and hotel/motel occupancies,

Insulation shall abut securely against all framing members

Range (Btu-in Insulation Mean Rating Temp (

have pipe insulation.

per hour per ft²

per °F)

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

Pipes that are externally heated

Insulation Installation (QII) as specified in the Reference Residential Appendix RA3.5.

Recirculating system piping, including supply and return piping of the water heater

For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see blow) except:

The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system

15 🛮 be installed with a cover suitable for outdoor service per 120.3(b) / 160.4(f). Pipe insulation buried below grade must be installed in a water proof and

TABLE 120.3-A / 160.4-A PIPE INSULATION THICKNESS

Generated Date/Time:

ELECTRICAL POWER DISTRIBUTION

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Schema Version: rev 20220101

Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that

For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per 120.3:

Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall

< 1 1 to < 1.5 1.5 to < 4

1.0 in or R-7.7 | 1.5 in or R-12.5 | 1.5 in or R-11 | 2.0 in or R-16

penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing.

· Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality

Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to

Report Version: 2022.0.000

Schema Version: rev 20220101

Form/Title

NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaire

DATE

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| TR | ACY |
| UNIFIED SO | CHOOL DISTRICT |

HMC Architects

3595001000

2101 CAPITOL AVENUE, SUITE 100 SACRAMENTO, CA 95816

916 368 7990 / www.hmcarchitects.com

△ **DESCRIPTION**

KEYNOTES

GENERAL NOTES

MANUFACTURER PROFESSIONAL OF RECORD ON PC

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD

AS NOTED MM/DD/YY PROJECT NO: XXXX-22

SHEET TITLE:

CALIFORNIA ENERGY COMMISSION NRCC-PLB-E (Page 2 of 6 2023-03-06T10:41:54-05:0 his table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.2(d) must also Maximum Standb **Designed Standby Loss** ¹FOOTNOTE: In systems >= 1MMBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 90% Et requirements via an input capacity-weigh PROPRIETARY RIGHTS. Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-3.5. Label required per 110.3(c)3 Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-3.5. Label required per 110.3(c)3

□ □ New state buildings 60% of energy for service water heating from site solar energy or recovered energy per 110.3(c)5

□ □ Solation valves for instantaneous water heater with input rating >6.8 kBTUH or 2 kW has been specified per 110.3(c)6

| Solation valves for instantaneous water heater with input rating >6.8 kBTUH or 2 kW has been specified per 110.3(c)6 PRE-CHECKED SET NAME School buildings < 25,000 ft^2 and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating School buildings < 25,000 ft and < 4 stories inust instant a near point affect in systems serving an individual bathroom space may be an instantaneous electric water heater. Documentation Software: Energy Code Ace Compliance ID: 92981-0323-0009 Report Generated: 2023-03-06 07:41:56 SITE SPECIFIC PROJECT NAME 2023-03-06T10:41:54-05: Digitally signed by
Hans Marsman,
LEED AP, CEA
Date: 2023.03.06 APPROVED 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 requiren 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.

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 nspections. 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 occupanc Documentation Software: Energy Code Ace Compliance ID: 92981-0323-0009 Report Generated: 2023-03-06 07:41:56 CEC-NRCC-ELC-E This table includes new or replacement electrical service systems OR equipment to demonstrate compliance with §130.5(a)/§160.6(a). For REVISIONS multifamily occupancies, submetered systems that provide power to common use areas must meet the following metering requirements. Field Inspector Location of Instantaneous Demand (kW)

Instantaneous Demand Documents DRAWN BY: ¹FOOTNOTES: If common use areas in a multifamily occupancy are submetered, rating is for submeter size serving common use areas.

American Modular Systems 787 Spreckels Ave., Manteca, CA 95336 Phone (209) 825-1921 Fax (209) 825-7018 www.americanmodular.com COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)

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24' x 40' THRU 120' x 40' STANDARD MODULAR BUILDING (LOW SEISMIC)

DIV. OF THE STATE ARCHITECT APP: 04-122050 PC REVIEWED FOR SS D FLS D ACS CG D 2022 CBC PRE-CHECK (PC) DOCUMENT

ENERGY CALCULATIONS SUPPLEMENTAL SHEET

EN.75

FACILITY:

PROJECT:

2421 W LOWELL AVE

TRACY. CA 95377

ART FREILER ELEMENTARY SCHOOL

ART FREILER ES - TK CLASSROOM

ENERGY CALCULATION SUPPLEMENTAL SHEET

CLIENT PROJ NO: 359500100

PLEASE RECYCLE 🖧

CALIFORNIA ENERGY COMMISSION

Documentation Software: Energy Code Ace

Report Generated: 2023-03-06 07:40:22

Compliance ID: 92981-0323-000

NRCC-PLB-E

(Page 4 of 6)

2023-03-06T10:41:54-05:0

Documentation Software: Energy Code Ace

Report Generated: 2023-03-06 07:41:56

Compliance ID: 92981-0323-0009

CEC-NRCC-ELC-E

2023-03-06T10:40:21-05:00

NRCC-LTO-E

Domestic Water Heating System

10.1, 110.3, 160.4 and 170.2(d), and with requirements 180.1 for additions and 180.2 for alterations.

nic water heating systems are documented on the NRCC-MCH compliance document.

Dwelling units refers to hotel/motel guest rooms and units in a multifamily residential occupancy. ³ DHW systems serving 2 or more dwelling units are considered "Central Systems" for multifamily occupancies

eptional Conditions" refer to Table D. or the table indicated as not compliant for guidance.

01 Project Location (city) Palmdale
03 Occupancy Types Within Project (select all that apply):

My project consists of (check all that apply):

System Alteration (equipment, distribution or controls)

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

CALIFORNIA ENERGY COMMISSION

applicable Table referenced below.

C. COMPLIANCE RESULTS

New system (DHW system being installed for the first time in newly

This document is used to demonstrate compliance for nonresidential occupancies with requirements in 110.1, 110.3, 120.3, and 140.5, and with requirements in 141.0 for additions and

nis table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in 140.

Generated Date/Time:

AMS PCs Water Heating - T24-22 Report Page

Report Version: 2022.0.000

| Individual System (serving nonresidential spaces) | ☑ Equipment | ☑ Distribution | ☑ Controls

Compliance Results

COMPLIES

Documentation Software: Energy Code Ace

Compliance ID: 92981-0323-0009

(Page 5 of 6)

2023-03-06T10:41:54-05:00

Documentation Software: Energy Code Ace

Report Generated: 2023-03-06 07:41:56

Compliance ID: 92981-0323-0009

CEC-NRCC-ELC-E

Report Generated: 2023-03-06 07:41:56

170.2(d) and 141.0(a)/ 180.1, or 141.0(b)2N / 180.2 for additions or alterations. Solar water heating systems are documented on the NRCC-SAB compliance document. Combined

DOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems

his table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in

AMS PCs Water Heating - T24-22 Report Page:

CERTIFICATE OF COMPLIANCE

Project Address:

B. PROJECT SCOPE

C. COMPLIANCE RESULTS

D. EXCEPTIONAL CONDITIONS

Domestic Water Heating System

here are no forms required for this project.

here are no forms required for this project.

CERTIFICATE OF COMPLIANCE

Registration Number:

Registration Number:

§141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per §180.1(a) or §180.2(b)4Bvii. Project Name: PC 48'-240'x40' Enforcement Agency: DSA Dwelling Address: N/A Permit Number: N/A City and Zip Code: N/A Permit Application Date: A. GENERAL INFORMATION 02 Climate Zone 01 Project Location (city) 03 | Occupancy Types Within Project ☐ Hotel/ Motel High-Rise Residential Multifamily/ MF _ Multifamily/ MF Mixed-use >= 4 (Addition or Alteration) □ Commercial/ Industrial □ Grocery Store □ Religious Facility □ Data Center □

B. PROJECT SCOPE This document is used to demonstrate compliance with mandatory requirements in §130.5 for electrical systems in newly constructed nonresidential This table includes electrical service systems that are within the scope of the permit application. and hotel/motel occupancies and §160.6 and §160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential & hotel/motel occupancies will also use this document to demonstrate compliance per §141.0(a) or **Demand Response Controls** Where required, demand response controls System subject to must be specified which are capable of receiving Provides power to **Utility Provided** Metering System Article 517 Designation/ Work¹ (kVA) Exception to Description §130.5(a)/§160.6(a)³ §130.5(a)&(b)

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

STATE OF CALIFORNIA

Project Name:

NRCC-LTO-E

(Page 6 of 7 2023-03-06T10:40:21-05:00

Verified

Documentation Software: Energy Code Ace

Report Generated: 2023-03-06 07:40:22

Compliance ID: 92981-0323-0007

NRCC-PLB-E

2023-03-06T10:41:54-05:0

Hotel/Motel

Documentation Software: Energy Code Ace

Report Generated: 2023-03-06 07:41:56

Compliance ID: 92981-0323-0009

CEC-NRCC-ELC-E

Outdoor Lighting

CERTIFICATE OF COMPLIANCE

mpany: Marsman Consulting

dress: 1150 J Street #409 //State/Zip: San Diego, CA 9210

Registration Number:

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

RESPONSIBLE PERSON'S DECLARATION STATEMENT

Randall P Cavannagh

tify the following under penalty of perjury, under the laws of the State of California:

of Title 24, Part 1 and Part 6 of the California Code of Regulations.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Domestic Water Heating System

H. DOMESTIC HOT WATER CONTROLS

monstrated with requirements in 160.4(e) / 170.2(d).

Yes No Not Applicable

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

NRCI-PLB-E - Must be submitted for all buildings

Registration Number:

CERTIFICATE OF COMPLIANCE

01

The information provided on this Certificate of Compliance is true and correct.

certify that this Certificate of Compliance documentation is accurate and complete

AMS PCs Ext Ltg - T24-22 Report Page:

1 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)

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.

ble Designer Name:

Responsible Designer Signature:

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 requirement

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.

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

Generated Date/Time:

Report Version: 2022.0.00

AMS PCs Water Heating - T24-22 Report Page

Construction documents require manufactures certificate themselves themselves controls capable of adjusting temperature settings per 110.3(a).

design air volume.

control linkage or jack shaft is prohibited.

s table is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also

| Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per 110.3(c)1 unless covered by California Plumbing Code 613.0.

| Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per \$110.3(c)2 unless systems serves healthcare facility.

| For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(b)3 for additions.

For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference

er combustion air fans with motor >= 10 hp shall meet one of the following

The fan motor shall be driven by a variable speed drive OR

Form/Title

Generated Date/Time:

ELECTRICAL POWER DISTRIBUTION

Report Version: 2022.0.000

Appendix RA4.4.9 per 170.2(d).

Combustion air positive shut-off shall be provided per 160.4(3).on all newly installed commercial boilers as follows:

• Boilers with input capacity >= 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent static

The fan motor shall include controls that limit the fan motor demand to $\leq 30\%$ of the total design wattage at 50% of the

Newly installed boilers with an input capacity {d:gte/] 5MMBtu/h and a steady state full-load combustion efficiency < 90% shall

maintain excess (stack-gas) oxygen concentrations <= 5% by volume on a dry basis over firing rates of 20-100%. Combustion air volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustion air

one: (619) 573-6374

CA Elec Code and automatically responding to at least one dwelling standard based messaging protocol which units/common living enables demand response after receiving a areas only in demand response signal. Sections multifamily occupancy §120.2/§160.3, §130.1/§160.5 and §130.3/§160.5 and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents-will indicate when demand response controls are required.

¹FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are ² If common use areas in a multifamily occupancy are submetered, rating is for submeter size serving common use areas.

Service Electrical Metering AND Monitoring AND Voltage Drop Receptacles AND Electric Ready §130.5(c)/ §130.5(b)/ §130.5(d)/ §160.9 Compliance Results §160.6(c) §160.6(d) §160.6(b) (See Table G) (See Table H) (See Table I) COMPLIES, DOES NOT COMPLY, Or Conditions

Separation for Controlled

§130.5(a)/ §160.6(a) (See Table F) Yes/No AND Yes/No AND Yes/No AND Yes/No AND Yes/No COMPLIES with Exceptional

Generated Date/Time:

ELECTRICAL POWER DISTRIBUTION

Report Version: 2022.0.000

Schema Version: rev 2022010

D. EXCEPTIONAL CONDITIONS

Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see the

Results in this table are automatically calculated from data input and calculations in Tables F through J.

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

CALIFORNIA ENERGY COMMISSION

Domestic Water Heating System

EWH-1

Water Heating Equipment All Occupancies

Domestic Water Heating System

CERTIFICATE OF COMPLIANCE

mentation Author Name

Registration Number:

dress: 1150 J Street #409 y/State/Zip: San Diego, CA 921

Registration Number:

EWH-1 Storage Water 20 6,824 Heater

his table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Exception to 140.5(c)/ Exceptions Do

170.2(d)3 Not Apply

Equipment Type Volume (gal) Capacity Hour Rating Rated Efficiency (Btu/h) (FHR) Efficiency Required

demonstrated and with 141.0 / 180.1 / 180.2 for addition and alteration scopes.

ment Schedule: Water Heating Efficiency and Standby Loss

Yes No Not Applicable □ □ □ □

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

ESPONSIBLE PERSON'S DECLARATION STATEMENT

Randall P Cavannagh

tify the following under penalty of perjury, under the laws of the State of California:

American Modular Systems | Gen7 School

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

CALIFORNIA ENERGY COMMISSION

 $This \ table \ includes \ remarks \ made \ by \ the \ installer \ to \ the \ Authority \ Having \ Jurisdiction.$

Submetered systems providing power to dwelling units do not.

E. ADDITIONAL REMARKS

F. SERVICE ELECTRICAL METERING

Designation/ Description (kVA)

The information provided on this Certificate of Compliance is true and correct.

certify that this Certificate of Compliance documentation is accurate and complete

AMS PCs Water Heating - T24-22 Report Page:

Rated

Gas Service

1MMBtu/h1

Generated Date/Time:

Generated Date/Time:

ELECTRICAL POWER DISTRIBUTION

F. SERVICE ELECTRICAL METERING 03

Required Metering Capabilities per Table 130.5-A

(kW) period

Report Version: 2022.0.000

Schema Version: rev 20220101

MS PCs Water Heating - T24-22 Report Page

Report Version: 2022.0.000

Water Heating Capacity-weighted

Efficiency Unit

Requirement

CEA/ HERS Certification Identification (if applicable):

CERTIFICATE OF COMPLIANCE

E. ADDITIONAL REMARKS

Project Name:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

ELECTRICAL POWER DISTRIBUTION

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with

§130.5(b)/§160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered

systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered

NOTES If "Other" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.

Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type.

ELECTRICAL POWER DISTRIBUTION

Conductors or raceway shall be installed with termination points at the main electrical panel, via subpanels panels if applicable, to a

location no more than 3 feet from each gas outlet or a designated location of future electric replacement equipment. Both ends of the

conductors or raceway shall be labelled "Future 240V Use." The conductors or raceway and any intervening subpanels, panelboards,

for demand factors in accordance with the California Electric Code. Gas flow rates shall be determined in accordance with the California

- The electrical power required to provide equivalent functionality of the gas-powered equipment as calculated by the responsible

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an

1. The person who prepared the NRCC will sign and complete the fields for their name, company (if applicable), address, phone number,

company (if applicable), address, phone number, license number (if applicable), date and signature.

2. The person who is assuming responsibility for the project being built to comply with Title 24, Part 6, will complete the fields for their name,

explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction

switchboards, and busbars shall be sized to meet the future electric power requirements, at the service voltage to the point at which the

conductors serving the building connect to the utility distribution system, as specified below. The capacity requirements may be adjusted

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

Load Type per Table Minimum Required Separation of Load

per Table 130.5-B

Method 4: Complete metering system measures and reports loads by type.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Plumbing Code. Capacity shall be one of the following:

There are no Certificates of Acceptance applicable to electrical power distribution requirements.

- 2.6 kVA for each 10,000 Btu per hour of rated gas input or gas pipe capacity; or

- 24 amps at 208/240 volts per clothes dryer;

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

NRCI-ELC-E - Must be submitted for all buildings.

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS

Documentation Declaration Statements

explanation should be included in Table E. Additional Remarks.

certification information (if applicable), date and signature.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Gas/ Propane Clothes Dryers In Common Areas

and can be found online.

YES NO

¹ FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.

See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

² Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type.

Method 3: Branch circuits serve load types individually & provisions for adding future branch circuit monitoring.

systems also do not need to be shown.

CEC-NRCC-ELC-E

CEC-NRCC-ELC-E

NRCC-ELC-E

January 2022

H. VOLTAGE DROP

provided below.

Electrical Service

Description

City/State/Zip:

this requirement.

Responsible Designer Name: Randall Cavanagh

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Division of the State Architect

code section illustrated below:

2022 California Green Building Code (CGC) - (Part 11, Title 24, CCR)

Procedures for waste management reporting.

AMS shall comply to this section by the following procedure & practice:

5. If handled by a waste management company or a diversion facility.

6. Invoice receipts provides calculated weights of each bin & pricing of rental usage.

The PC plans and specifications will not reflect and show these procedures for any project.

Any questions regarding the construction waste management procedures,

Type of waste to be diverted. If sorted or bulk mixed

If calculated by weight or volume.

Scrap Metal, Glass, Leather).

waste listed above.

please feel free to contact AMS's office.

Raull llung

Randall P. Cavanagh

• Section 5.408.1 – Construction Waste Management

Sacramento, CA 95811

Company: American Modular systems

Address: 787 Spreckels Avenue

City/State/Zip: Manteca, Ca 95363

building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish

Date Signed: 6-28-23

Phone: (209)825-1921

License: C12631

6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder

For assistance or questions regarding the Energy Standards, contact the Energy Hotline at: 1-800-772-3300

This letter is in regards to the 2022 Energy/CALGreen Code DSA Plan Review, 2022 CBC - AMS PC Submissions.

American Modular Systems (AMS) shall conform their on-site construction practices to comply with the required construction waste management practices illustrated in the Part 11, Title 24 California Green Building Code (CDC). The intent of this letter is to inform, illustrate, and demonstrate that AMS and its buildings comply to the following applicable

If the construction waste management takes place in the factory, provide program specifics to CALGreen plan reviewer which identifies:

Percentage of waste to be salvaged or recycled with a minimum of 65% of nonhazardous construction waste.

AMS shall be responsible for the organization and management of construction waste on the factory site, including

AMS shall order rental waste & recycling bin(s) from a licensed and authorized waste management company from

up for the bin(s) and is given invoice receipts from the waste management company.

3. AMS shall station the bin(s) whereas needed for AMS plant workers to salvage and/or recycle construction waste

4. AMS plant workers and management are responsible for **sorting** each bin with the correct types of construction

American Modular Systems, Inc., 787 Spreckels Ave. Manteca, California 95336, Ph. 209 825 1921 Fax: 209 825 7018

5. The invoice provided by the hired waste management company provides a description of the bin(s) and

during the work day. Each bin is labeled to help sort the different types of construction waste (e.g. Wood,

the City of Manteca, or equivalent in that matter. Upon approval, the bin(s) shall be dropped off on factory site by hired waste management company. As the bin(s) reach full capacity of construction waste, AMS schedules a pick-

the responsibility of recycling waste that is a minimum of 65% of non-hazardous construction waste.

provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requiremen

DATE

|)r |
|-----------------------------|
| ir se |
| |
| TRACY |
| UNIFIED SCHOOL DISTRICT |

HMC Architects

3595001000

2101 CAPITOL AVENUE, SUITE 100 SACRAMENTO, CA 95816 916 368 7990 / www.hmcarchitects.com

△ **DESCRIPTION**

KEYNOTES

GENERAL NOTES

2022 CBC PRE-CHECK (PC) DOCUMENT MANUFACTURER PROFESSIONAL OF RECORD ON PC

APPROVED

IV. OF THE STATE ARCHITEC

SS D PLS D ACS R CG D

APP: 04-122050 PC

787 Spreckels Ave., Manteca, CA 95336

Phone (209) 825-1921 Fax (209) 825-7018

www.americanmodular.com

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STANDARD MODULAR BUILDING

PRE-CHECKED SET NAME

SITE SPECIFIC PROJECT NAME

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NSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISH

COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)

FACILITY: ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE **TRACY. CA 95377**

PROJECT:

DATE: 04/03/24

ART FREILER ES - TK CLASSROOM

SHEET NAME:

ENERGY CALCULATIONS SUPPLEMENTAL SHEET

CLIENT PROJ NO: 3595001000

ELECTRICAL POWER DISTRIBUTION ELECTRICAL POWER DISTRIBUTION ELECTRICAL POWER DISTRIBUTION CEC-NRCC-ELC-E I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES Gas/ Propane Furnaces Serving Individual Dwelling Units (Heat Pump Space Heater Ready) This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with feeders and branch circuits to demonstrate compliance with §130.5(c)/§160.6(c). For alterations, only the altered circuits must demonstrate §130.5(d)/§160.6(d). Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in A dedicated 240 volt branch circuit shall be installed within 3 feet from the furnace and accessible to the furnace with no obstructions. compliance per §141.0(b)2Piii/§180.2(b) 4Bviic. office spaces, copy rooms and hotel/motel guest rooms. 02 The branch circuit shall be rated at 30 amps minimum. The blank cover shall be identified as "240V ready". All electrical components shall be installed in accordance with the California Electrical Code. *NOTES If "Permitted by CA Elec Code*" is selected under Compliance Method above, please indicate where the exception applies in the space The main electrical service panel shall have a reserved space to allow for the installation of a double pole circuit breaker for a future heat Location/ Type of Shut-Off Permanent Durable Location of Requirements in Field Inspector pump space heater installation. The reserved space shall be permanently marked as "For Future 240V use". Controlled Responsive Marking Will be Used Construction Documents Pass Fail Controls Combined Voltage Drop on Installed Sheet Number for Voltage Field Inspector **Gas/ Propane Cooktops Serving Individual Dwelling Units** Location of Voltage Designation/ Feeder/Branch Circuit Conductors Compliance **Drop Calculations in** Drop Calculations¹ Pass Fail *NOTES: If "Other*" is selected under Shut-Off Controls above, please indicate how compliance has been achieved in the space provided below. Requirement Construction Documents A dedicated 240 volt branch circuit shall be installed within 3 feet from the cooktop and accessible to the cooktop with no obstructions. ¹ FOOTNOTES: Receptacles dedicated to refrigerators and water dispensers in kitchens, located a minimum of 6ft above the floor specifically for ☐ Voltage drop ≤ 5% Code (Exception to The branch circuit shall be rated at 50 amps minimum. The blank cover shall be identified as "240V ready". All electrical components shall clocks, network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms, circuits rated more than 20 Amps. §130.5(c))* be installed in accordance with the California Electrical Code. or connected to a UPS that are intended to be in continuous use and are marked to differentiate them from other receptacles or circuits are ¹ FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority The main electrical service panel shall have a reserved space to allow for the installation of a double pole circuit breaker for a future excepted from the requirements. Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor electric cooktop installation. The reserved space shall be permanently marked as "For Future 240V use". Gas/ Propane Clothes Dryers Serving Individual Dwelling Units This table includes electrical system requirements that must be met when using gas or propane heating, cooking or clothes drying in multifamily occupancies to demonstrate compliance with §160.9. ☐ Clothes dryers in ☐ None of 06 Dostructions. The branch circuit shall be rated at 30 amps minimum. The blank cover shall be identified as "240V ready". All electrical 01 occupancy that use gas or propane | individual dwelling | individual dwelling | serving individual common areas these components shall be installed in accordance with the California Electrical Code. The main electrical service panel shall have a reserved space to allow for the installation of a double pole circuit breaker for a future electric clothes dryer installation. The reserved space shall be permanently marked as "For Future 240V use". CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance January 2022 **ELECTRICAL POWER DISTRIBUTION** CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS NRCC-ELC-E CEC-NRCC-ELC-E (Page 2 of 3) Electrical Power Distribution (Page 1 of 3) **Electrical Power Distribution** A. General Information G. Separation of Electrical Circuits for Energy Monitoring DOCUMENTATION AUTHOR'S DECLARATION STATEMENT 1. Enter the City the project is located in. 1. Load Type per Table 130.5-B: Select from dropdown. I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name:

JOSE AREVALO Documentation Author Signature: 2. Climate Zone: Select from dropdown. This field is filled out automatically. Documentation Author Company Name:
AMERICAN MODULAR SYSTEMS 3. Select the applicable Occupancy Types within the Project. 3. Compliance Method: Select from dropdown. 06/30/23 4. Enter the Location of Requirements in the Construction Documents. B. Project Scope CEA Certification Identification (If applicable): 5. This is a Pass or Fail checkbox for the field inspector. Address: 787 SPRECKELS AVE 1. Enter the Electrical Service Designation/Description. Phone: 209-825-1921 2. Scope of Work: Select from dropdown. H. Voltage Drop MANTECA, CA Enter the kVA Rating. 1. This field is filled out automatically. RESPONSIBLE PERSON'S DECLARATION STATEMENT 4. Check if the Utility Provided Metering System meets Exception to §130.5(a)/§160.6(a)3. 2. Select the Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method. 2. I certify the following under penalty of perjury, under the laws of the State of California: 5. Check if the System is subject to CA Elec Code Article 517 Exception to §130.5(a)&(b). 3. Location of Voltage Drop Calculation: Select from dropdown. 1. The information provided on this Certificate of Compliance is true and correct. 4. Enter the Sheet Number for Voltage Drop Calculation in Construction Documents. 6. Demand Response Controls static text. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design 7. Check if power is provided to dwelling units/common living areas only in a multifamily occupancy. 5. This is a Pass or Fail checkbox for the field inspector. identified on this Certificate of Compliance (responsible designer). C. Compliance Results I. Circuit Controls for 120-Volt Receptacles and Controlled Receptacles 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 1. Results in this table are automatically calculated from data input and calculations in Tables F through J. Enter the Room Name or Description. Code of Regulations. 2. Location/Type of Controlled Receptacles: Select from dropdown. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information Shut-Off Controls: Select from dropdown. 1. This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form. provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement 4. Demand Responsive Controls: Select from dropdown. agency for approval with this building permit application. E. Additional Remarks 5. Check if a Permanent Durable Marking Will be Used. 5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the

6. Enter the Location of Requirements in the Construction Documents.

applicant, an explanation should be included in Table E. Additional Remarks.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

1. Select the applicable systems serving multifamily occupancy that use gas or propane.

Selections have been automatically made based on information provided in this document. If any selections have been changed by the permit

7. This is a Pass or Fail checkbox for the field inspector.

K. Declaration of Required Certificates of Installation

L. Declaration of Required Certificates of Acceptance

2-8. Check Yes to verify your project meets the requirements.

J. Electric Ready Buildings

1. Enter any notes or comments for the AHJ.

3. Instantaneous Demand checkbox is always checked.

kWh per rate period is checked automatically.

5. This is a Pass or Fail checkbox for the field inspector.

Historical Peak Demand checkbox is checked automatically.

4. Enter the Location of Requirements in Construction Documents.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Tracking kWh for user-defined period checkbox is always checked.

1. This field is filled out automatically.

This field is filled out automatically.

F. Service Electrical Metering

January 2022

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD. DRAWN BY: AA AS NOTED MM/DD/YY XXXX-22 PROJECT NO: SHEET TITLE: **ENERGY CALCULATIONS** SUPPLEMENTAL SHEET SHEET NUMBER:

January 2022

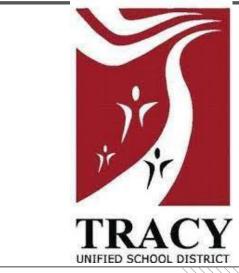
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 02-122975 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 **HMC** Architects (2) 8'x4' MARKER BOARDS - SEE SHEET A4.0 3595001000 > NOT USED TYP MOD LINE 23'-8\(\frac{1}{2} \)" THRU 118'-6\(\frac{1}{2} \)" SEE BUILDING SIZE SCHEDULE 2101 CAPITOL AVENUE, SUITE 100 (FOCOL TO FOCOL) FIRE EXTINGUISHER - TOP OF HANDLE @ +48" A.F.F. SACRAMENTO, CA 95816 4" MAX PROTRUSION FROM WALL IF BOTTOM OF FIRE 916 368 7990 / www.hmcarchitects.com 11'-10" MODULE 11'-10" MODULE 11'-10" MODULE 11'-10" MODULE 11'-10" MODULE 11'-10" MODULE IS ABOVE 27" A.F.F. - SEE 19/N4.0 TACTILE EXIT SIGN PER DETAIL 10/N4.0 (BY 6 EGRESS AREA **△ DESCRIPTION** DATE ROOM SIGNAGE AND I.S.A. PER D S 5&9/N4.0 (BY OTHERS) HVAC 9 CARPET X TON (10) EGRESS DC **American Modular Systems** ENT FLOOR AREA (2'-0" MIN. IN ALL DIRECTIONS @ ALL ENTRY DOOR) IN LEVEL ARE NOT PERMITTED IN DOOR MANEUVERING CLEARANCE 787 Spreckels Ave., Manteca, CA 95336 SSORBENT MATERIAL SHALL BE FLUSH WITH CARPET (11B-404.2.4). Phone (209) 825-1921 Fax (209) 825-7018 www.americanmodular.com PTIONAL OVERHANG OCCUPANT LOAD SIGN PER DETAIL 11/N4.0 (BY OTHERS) INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMEN COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS) DOWNSPOUT - DISCHARGE TO SPLASH BLOCK (U.O.N.) S OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIET / (QUANTITY AND LOCATION MAY VARY) ITS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HE **KEYNOTES** (LOCATION RTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEN \langle 15 angle HVAC - SEE MECHANICAL AND NOTES ON EXTERIOR ELEVATIONS. I AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICA COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR \langle 16 angle ELECTRICAL PANEL (LOCATION MAY VARY) ISTRUCTION. DESIGN. OR OTHER MAKING OF. OR FOR THE PURPOSE OF FURNIS (17) CASEWORK WITH SINK - REFER TO 17/-BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS. PPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITT SENT OF. OR IN A WRITTEN AGREEMENT WITH. AMS. SUBMITTAL OR DISTRIBUTION FLOOR LIVE LOAD SIGN PER 2022 CBC SECTION 106.1. (FLOOR LIVE LOAD SIGN IS FFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLIC IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OF REQUIRED ONLY FOR COMMERCIAL OR INSTITUTIONAL BUILDINGS DESIGNED WITH LIVE LOADS EXCEEDING 50 PSF) WHERE 150 PSF LIVE LOAD IS SPECIFIED, THE TEXT "LONG TERM STORAGE NOT PERMITTED" SHALL ALSO BE INCLUDED ON THE PRE-CHECKED SET NAME 24' x 40' THRU 120' x 40' ASSISTIVE LISTENING (AL) SIGN POSTED IN PROMINENT PLACE AT OR NEAR THE TYP CLASSROOM STANDARD MODULAR BUILDING TYP CLASSROOM REFER TO (LOW SEISMIC) CLASSROOM 101 FIRE RISER SIGNAGE WITH 2" LETTERING WITH $\frac{3}{8}$ " MIN. STROKE ON THE CONTRASTING BACKGROUND FOR TYP NOTES **KEY NOTES** REFER TO SHEETS N5.0 AND N5.1 FOR POSSIBLE ADDITIONAL FLOOR PLAN CONFIGURATIONS. SITE SPECIFIC PROJECT NAME OPTIONAL INTERIOR WALLS MAY OCCUR THROUGHOUT THE BUILDING AS CONSTRUCTED PER SHEETS S8.1 OR S9.1. THE PC TITLE 24 HAS BEEN RUN FOR THE WORST CASE ENVELOPE BASED ON AREA. PANIC HARDWARE COMPLYING WITH C.B.C. 1010.2.9 IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OF **GENERAL NOTES** SEE SHEET A1.0-N FOR IF OCCUPANCY LOAD EXCEEDS 50, PROVIDE A SECOND EXIT DOOR, PER CBC TABLE APPROVED DIV. OF THE STATE ARCHITECT FOR EVERY ROOM OR SPACE USED FOR ASSEMBLY OR CLASSROOM, PROVIDE AN OCCUPANT LOAD SIGN (BY OTHERS) IN A CONSPICUOUS PLACE, NEAR THE MAIN APP: 04-122050 PC EXIT, PER C.B.C. SECTION 1004.9. ALL PRIMARY EXTERIOR DOOR ENTRIES SHALL BE COVERED TO PREVENT WATER SS D FLS D ACS D CG D INTRUSION BY USING NONABSORBENT FLOOR AND WALL FINISHES WITHIN AT LEAST SITE-SPECIFIC SHEET 2 FEET AROUND AND PERPENDICULAR TO OPENING, PER CALGREEN, SECTION PRIMARY EXTERIOR DOOR ENTRIES SHALL HAVE AT LEAST ONE OF THE FOLLOWING: BUILDING SIZE SCHEDULE INSTALLED AWNING AT LEAST 4 FEET IN DEPTH (BY OTHERS). TOTAL # OF | TOTAL # OF | OVERALL OPTIONAL SIDE WALL CANOPY (4 FEET IN DEPTH) PER SHEET S5.4A. 2022 CBC PRE-CHECK (PC) DOCUMENT 12'-0" WIDE CENTER BUILDING ROOF OVERHANG AT LEAST 4 FEET IN DEPTH. MODULES MODULES WIDTH¹ DOOR RECESSED AT LEAST 4 FEET. MANUFACTURER PROFESSIONAL OF RECORD ON PC OTHER METHODS WHICH PROVIDE EQUIVALENT PROTECTION (BY OTHERS). 23'-81/2" 24'x40' 35'-6³/₄" WINDOW PLACEMENT & SIZE MAY VARY. 36'x40' THE WINDOW GLASS SHALL NOT EXCEED THE AREA LISTED IN THE WINDOW 47'-5" 48'x40' GLAZING AREA TABLE IN SHEET N3.0 59'-3<mark>1/</mark>4" - FOR DOOR TYPE, SEE DOOR 71'-11/5" 72'x40' SCHEDULE, SHEET N3.0, TYP CABINETRY MAY BE INSTALLED ON ONE OR BOTH SIDES OF INTERIOR WALLS AND THE INSIDE FACE OF EXTERIOR WALLS WHEN INSTALLED PER THE DETAIL 8/A7.1. B* HARDWARE GROUP 'B' WHERE 82'-11³⁄₄" 84'x40' OCCUPANT LOAD IS 50 OR MORE. 96'x40' 10. IF FIRE RATED WALLS ARE REQUIRED DUE TO SITE SPECIFIC REQUIREMENTS, REFE TO SHEET A8.0 FOR 1 HOUR RATED DETAILS 108'x40' 106'-81/4" EQ. TYP 120'x40' 118'-61/2" NOTES: TOTAL BUILDING WIDTH INCLUDES 1/4" PER MODULAR CONSTRUCTION TOLERANCE PER FOUNDATION SHEETS S1.0, S1.1, S1.2, & S1.3. 3/16:12 (1%) MINIMUM TO 1/4:12 (2%) MAXIMUM GRADE FROM FACE OF BUILDING MUST BE ADHERED TO FOR WATER RUN-OFF. PONDING MAY OCCUR AROUND THE PERIMETER OF THE BUILDING. THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION TYPICAL FLOOR PLAN SHEET NOTES UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD. **ACOUSTIC CONTROLS** 3. IN THE EVENT THAT A PC CLASSROOM IS DESIGNED TO CONNECT TO ANOTHER PC **ENERGY CONTROLS** BASE CABINET WITH SOLID SURFACE OR PLASTIC CLASSROOM OR RESTROOM. INTERIOR SOUND TRANSMISSION IN THE INTERIOR LAMINATE COUNTERTOP AND SINK. CABINET SHALL ADJOINING WALL AND FLOOR/CEILING SHALL MEET THE MINIMUM REQUIREMENT OF A FACILITY: WHEN THE PRE-CHECK (PC) BUILDING IS SITE ADAPTED, THE BUILDING AND STC OF 40, PER CALGREEN CODE SECTION 507.4.3. (EXAMPLES OF QUALIFYING HAVE PLASTIC LAMINATE FINISH. SITE FEATURES SHALL COMPLY WITH THE CALGREEN CODE, SECTION 5.507.4 ONLY REQUIRED IN BUILDINGS LARGER THAN 10,000 S.F., THEREFORE, NOT ART FREILER ELEMENTARY SCHOOL CABINET WITH SINK SHALL BE ACCESSIBLE - SEE ASSEMBLIES SHOWN BELOW). FOR THE SPECIFIC SITE LOCATION. REQUIRED FOR THIS PC. 2X4 WALLS DETAIL 12/P2.0. 2421 W LOWELL AVE AUTOMATIC DAYLIGHTING CONTROLS:
NOT REQUIRED IN ROOMS WHERE COMBINED INSTALLED LIGHTING POWER IN **TRACY, CA 95377** FOR SINK HEIGHT & DIMENSIONS, SEE DETAIL 8/P2.0. WALL ASSEMBLIES SHALL BE CONSTRUCTED PER DETAIL SHEETS A5.3, A5.5, RAWN BY: AA A5.7, & A8.0, WITH EITHER 2x4 WOOD STUDS OR 6" STEEL STUDS PER LISTED COMBINED SKYLIT & PRIMARY DAYLIT ZONES ARE <120 WATTS. INSTALLED WATTAGE IN PRIMARY SIDELIT DAY LIT ZONE IS 90 WATTS (2x 45w, AS SHOWN ON SHEET E1.0). AS NOTED MINIMUM STC RATINGS LISTED BELOW ARE PER THE CATALOG OF STC & IIC PROJECT: THEREFORE, AUTOMATIC DAYLIGHTING CONTROLS ARE ONLY REQUIRED WHEN MM/DD/YY CS (SEE PLUMBING FIXTURE RATINGS FOR WALL AND FLOOR/CEILING ASSEMBLIES, PRODUCED BY THE "SOLATUBES" ARE INSTALLED. SEE A1.1 ART FREILER ES - TK CLASSROOM 1 SCHEDULE ON SHT. P1.0) OFFICE OF NOISE CONTROL, CA DEPARTMENT OF HEALTH SERVICES. PROJECT NO: XXXX-22 (2) LAYER 5/8" GYPSUM BOARD (2) LAYER 5/8" ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) CONNECTION: SÉCURED TO MIN. 21/2" METAL STUDS SECURED TO MIN SHEET TITLE: PER TITLE 24 CODE. "AN EMCS MAY BE INSTALLED TO COMPLY WITH THE WALL LEGEND O.C. MAX. w/ $3\frac{1}{2}$ " TH @ 24" O.C. MAX. $W/3\frac{1}{2}$ REQUIREMENTS OF ONE OR MORE LIGHTING CONTROLS IF IT MEETS THE MINIMUM SHEET NAME: INSULATION THK BATT INSULATION REQUIREMENTS". PC MAY CONTAIN OCCUPANCY SENSORS AND PHOTOCELL └─30"x48"* CLEAR FLOOR TYPICAL TYPICAL FLOOR PLAN CONTROL LIGHTING, IN THAT CASE, AN EMCS IS NOT REQUIRED FOR THIS PC. SPACE EXTENDS MINIMUM _____ 2'-0" ____ STC=40 TEST REF.: AUDIO ALLOY L.L.C 7 PLAN 19" UNDER THE COUNTER TEST REF.: AUDIO ALLOY L.L.C TEST FLOOR PLAN -NO SHELVES SOLAR-READY ZONE REQUIREMENTS:
REQUIREMENTS & TABLE CAN BE FOUND ON SHEET A2.0 (11B-306.2.3, EXC.1) NO CABINET BASE NUMBER: OL-05-1003 NUMBER OL-92-410 SEE DETAIL 8/P2.0 NO DOORS -SEE DETAIL 8/P2.0 $\langle X \rangle = KEY NOTE$ NOTES ABOVE 4. MINIMUM WINDOW & DOOR RATINGS: *FROM FRONT FOR CLEARANCE (1) LAYER 1/2" GYPSUM BOARD RIM OF THE ALL WINDOWS AND DOORS SPECIFIED ON THE SCH ES FOUND ON SHEET N3.0 OF SHEET NUMBER: SECURED TO MIN. 21/2" METAL STUDS SECURED TO MIN. 2x4 STUDS @ 16" (x) = DOOR TEE SCHEDULE, SHEET N3.0 DIMENSIONS ANY MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND SINK OR THIS PACKAGE SHALL MEET A MINIMUM STC RATING @ 24" O.C. MAX. ARE NOT INCLUDED IN THE BASE PC. DWARE - SEE HARDWARE SCHEDULE, SHEET N3.0 COUNTER SECTION B-B SURFACE. STC=28 (CATALOG SECTION 1.2.1.5.4.1) CLIENT PROJ NO: 3595001000 DATE: 04/03/24 (CATALOG SECTION 1.3.2.5.4.1) OOW TYPE - SEE SCHEDULE, SHEET N3.0 WHICHEVER IS HIGHER OR TEST REF.: NATIONAL RESEARCH TEST REF.: NATIONAL RESEARCH GREATER COUNCIL OF CANADA - NRC #66 COUNCIL OF CANADA - NRC #66 **ELEVATION** 16 CLASSROOM SINK - OPTIONAL SYMBOLS LEGEND **ACOUSTIC NOTES** SCALE: 1/4" = 1'-0" 17 **ENERGY NOTES** PLEASE RECYCLE 🖧

A1.5
ADDENDUM "A"

PLEASE RECYCLE (4.4)



DATE



HMC Architects

3595001000

2101 CAPITOL AVENUE, SUITE 100

SACRAMENTO, CA 95816 916 368 7990 / www.hmcarchitects.com

△ **DESCRIPTION**

KEYNOTES

GENERAL NOTES

ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE TRACY, CA 95377

PROJECT:

ART FREILER ES - TK CLASSROOM XXXX-22

> SHEET NAME: TYPICAL ROOF PLAN METAL STANDING SEAM

(WITHOUT PARAPETS)

DATE: 04/03/24 CLIENT PROJ NO: 3595001000

TYPICAL ROOF PLAN METAL STANDING SEAM (WITHOUT PARAPETS) SHEET NUMBER: SOLAR-READY ZONE REQUIREMENTS

RAWN BY:

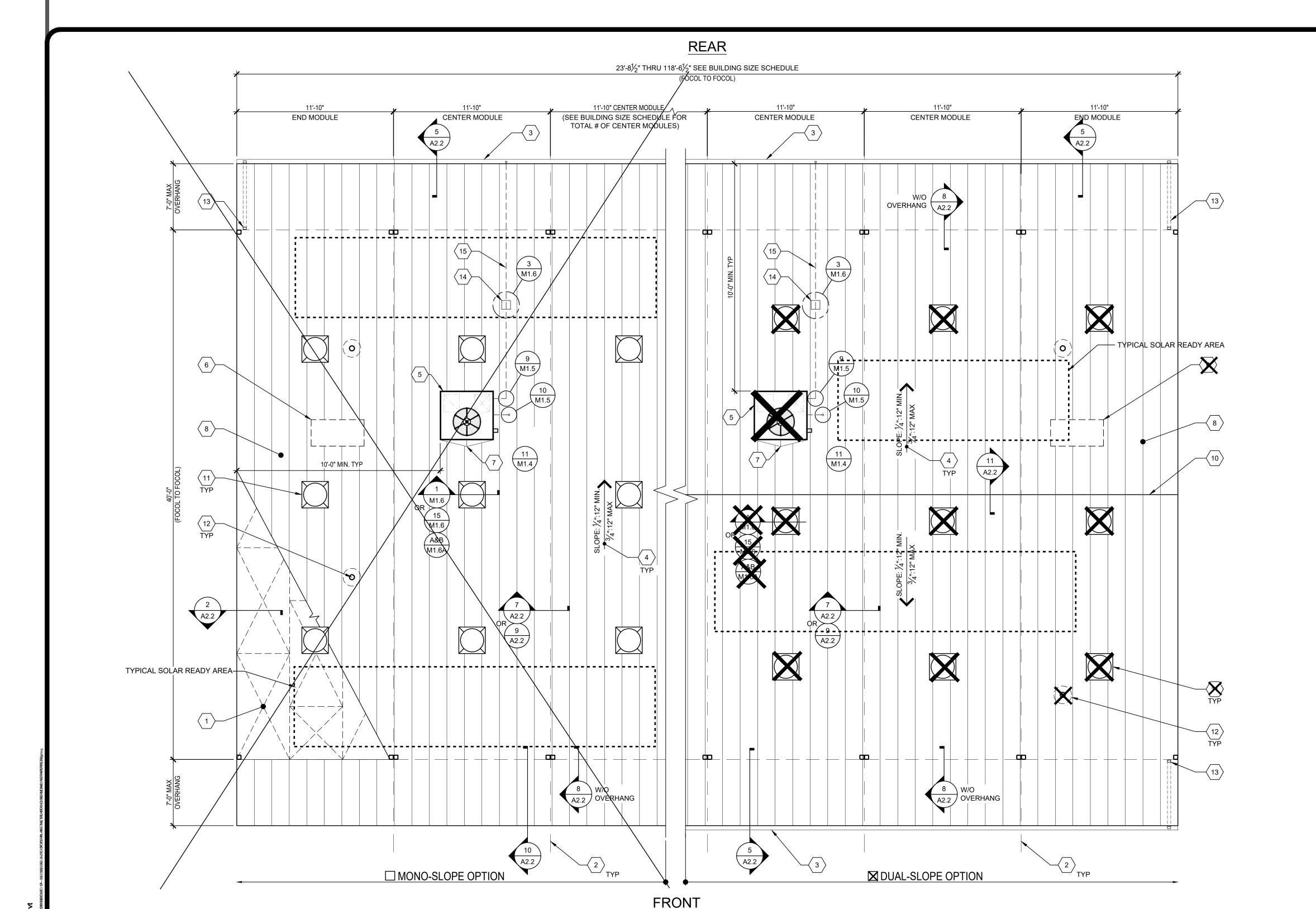
PROJECT NO:

SHEET TITLE:

AA

AS NOTED

MM/DD/YY



BUILDING SIZE SCHEDULE

☒ 36'x40' 3

60'x40' 5

10

1. TOTAL WIDTH INCLUDES 1/4" PER MODULE CONSTRUCTION

BUILDING SIZE SCHEDULE

48'x40'

72'x40'

84'x40'

96'x40'

108'x40'

120'x40'

TOLERANCE PER FOUNDATION.

NOTES:

TOTAL # OF TOTAL # OF OVERALL 12'-0" WIDE CENTER BUILDING

MODULES MODULES WIDTH¹

3

4

5

6

7

8

35'-6³/₄"

47'-5"

59'-31/4"

82'-113/4"

94'-10"

106'-81/4"

118'-61/2"

NOT USED

TYPICAL ROOF PLAN

24'x40'

⊠ 36'x40'

60'x40'

48'x40'

72'x40'

96'x40'

84'x40'

108'x40'

120'x40'

ROOF AREA DRAINS

(WITH 7'+7' OVERHANGS)

1296

1644

3420

3888

4536

5184

5832

6480

DOWNSPOUTS & LEADERS PER C.P.C. 1106.1 AND TABLE 1103.1.

ROOF AREA MINIMUM NO. OF SIZE OF DRAIN

2

2

2

2

2

3

PC DOWNSPOUT SIZING BASED ON ROOF AREA AND MAX RAINFALL RATE OF 3" PER

ROOF DRAIN SCHEDULE

RAINFALL RATE TO DETERMINE MINIMUM NUMBER OF DRAINS REQUIRED.

HOUR. SITE SPECIFIC BUILDING MAY UTILIZE LOCAL RAINFALL RATE--PROVIDE SITE

2x3

2x3

2x3

2x3

2x3

2x3

2x3

2x3

2x3

5 OPTIONAL ROOF MOUNTED HVAC PER M1.7 6 OPTIONAL ATTIC MOUNTED SPLIT-SYSTEM HVAC PER M1.7 7 \rangle CRICKET @ OPTIONAL HVAC PER 12/A2.2 STANDING SEAM METAL ROOF PER 7/S0.0 & DETAILS ON SHEET A2.2 9 NOT USED (10) RIDGE @ DUAL SLOPE OPTION (11) OPTIONAL SOLATUBE - SEE SHEET NOTE #1 **American Modular Systems** (12) PIPE VENT PER PLUMBING PLANS & 2/M1.6 787 Spreckels Ave., Manteca, CA 95336 Phone (209) 825-1921 Fax (209) 825-7018 OPTIONAL DOWNSPOUT - SEE ROOF DRAIN SCHEDULE BELOW FOR MIN. # OF www.americanmodular.com \langle 14 \rangle ROOF-TOP PIPE SUPPORT BLOCK PER DETAIL 3/M1.6 INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMEN (15) CONDENSATE LINE PER DETAIL 9/M1.5 COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)

KEY NOTES

ROOF SHEATHING PER SHEET S4.1 OR STEEL STRAP CROSS BRACING PER S4.0

2 > TYPICAL MOD LINE

4 > TYPICAL ROOF SLOPE

3 OPTIONAL GUTTER PER DETAIL 5/A2.2

SOLATUBE LOCATIONS SHOWN ON PLAN ARE GENERIC AND ACTUAL LOCATIONS MAY VARY - (4) MAX. PER MOD. FRAMING PER S4.0 & S4.1 INSTALLATION PER DETAILS 1 OR 15/M1.6

OPTIONAL GUTTERS SHALL BE LOCATED ALONG THE END-WALLS OF THE MONO-SLOPE: REAR END WALLS ONLY. DUAL-PITCH: BOTH FRONT & REAR END WALLS.

EITHER ROOF-SHEATHING OR STRAP CROSS BRACING MAY BE USED FOR MONO-SLOPE OR DUAL PITCH SLOPED BUILDING(S).

> APPROVED DIV. OF THE STATE ARCHITEC APP: 04-122050 PC

> > SS D FLS D ACS Q CG D

MS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETA GHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED H ERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMAR

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BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTE NSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION

ET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICAT IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

24' x 40' THRU 120' x 40'

STANDARD MODULAR BUILDING

PRE-CHECKED SET NAME

SITE SPECIFIC PROJECT NAME

2022 CBC PRE-CHECK (PC) DOCUMENT

MANUFACTURER PROFESSIONAL OF RECORD ON PC

ZONE MUST BE LEFT VOID OF ROOF-MOUNTED HVAC UNITS, SKYLIGHTS OR

SPECIFIED ON SHEET TS, WHICH DOES INCLUDE LOADS FROM SOLAR EQUIPMENT THAT MIGHT BE INSTALLED AT A LATER DATE. EQUIPMENT SUCH AS SOLAR MODULES, INVERTERS, AND METERING EQUIPMENT DO NOT NEED TO BE INSTALLED, NOR DOES CONDUIT, PIPING, OR

THE ROOF STRUCTURE HAS BEEN DESIGNED PER THE DESIGN LOADS

SHEET NOTES

SOLAR ZONE REQUIRED, PER TITLE 24 SECTION 110.10: FOR NON-RESIDENTIAL

HAVE NO ROOF OBSTRUCTIONS.

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

3 NOT USED

PROVIDED ON BUILDING ROOF.

BUILDINGS, 3 STORIES OR LESS, A MINIMUM OF 15% OF ROOF AREA (EXCLUDING SKYLIGHTS) MUST BE SET ASIDE FOR PHOTO-VOLTAICS (PV). THE ROOF MUST

REQUIRED SOLAR-READY ZONE, AREA PER THE CHART BELOW, MUST BE

OTHER OBSTRUCTIONS THAT WOULD HINDER FUTURE INSTALLATION OF

TOTAL AREA REQUIRED FOR SOLAR-READY ZONE DOES NOT NEED TO BE

SOLAR-READY ZONE SHALL NOT INCLUDE ROOF OVERHANGS, AND SOLAR

SOLAR SYSTEM COMPONENTS, INCLUDING PV PANELS.

SYSTEM COMPONENTS MAY NOT BE PLACED THERE.

LOCATED IN ONE AREA BUT CAN BE SPREAD OUT OVER ROOF.

PRE-INSTALLED MOUNTING HARDWARE. A STRUCTURAL ENGINEER SHOULD BE CONSULTED PRIOR TO ANY FUTURE SOLAR INSTALLATIONS TO DETERMINE THE ADEQUACY OF THE ROOF FRAMING TO SUSTAIN THE LOADS OF THE INSTALLATION ON THE BUILDING STRUCTURE.

A SEPARATE DSA APPLICATION NUMBER IS REQUIRED FOR DESIGN & INSTALLATION OF THE SOLAR PANEL SYSTEM, ITS ANCHORAGE & ROOF SUPPORT STRUCTURE.

| | REQUIRED SOLAR-READY ZONE | | | | | | | | | | | | |
|-------------------------|---------------------------|-----------------------------|------------------------------|---------------------------|--|--|--|--|--|--|--|--|--|
| BUILDING SIZE (NOM.) | | MAX. ROOF AREA (SQ. FT.) | REQ'D ZONE AREA (SQ. FT.) | *CLIMATE ZONE GROUP(S) | | | | | | | | | |
| | 24'x40' | 960 | 0 | N/A | | | | | | | | | |
| × | 36'x40' | 1440 | 0 | N/A | | | | | | | | | |
| | 48'x40' | 1920 | 288 | D | | | | | | | | | |
| | 60'x40' | 2400 | 360 | D | | | | | | | | | |
| | 72'x40' | 2880 | 432 | C, D | | | | | | | | | |
| | 84'x40' | 3360 | 504 | A, B & D | | | | | | | | | |
| | 96'x40' | 3840 | 576 | A & D | | | | | | | | | |
| | 108'x40' | 4320 | 648 | D | | | | | | | | | |
| | 120'x40' | 4800 | 720 | D | | | | | | | | | |

GROUP A: CLIMATE ZONES 1, 16 GROUP B: CLIMATE ZONES 2 - 5 GROUP C: CLIMATE ZONES 6 - 13 GROUP D: CLIMATE ZONES 14, 15

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION

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PLEASE RECYCLE 🖧

PLEASE RECYCLE ADDENDUM "A"

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 02-122975 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 **HMC** Architects TYPICAL DOOR 3595001000 F.R.P. (FIBER REINFORCED PLASTIC) - SHALL BE CLASS C RATED (AST EMBOSSED & SMOOTH INTERIOR WALL PANELS. NOMINAL PANELS THICKNESS SHALL BE ± 0.090 - PANEL SHALL BE INSTALLED IN 2101 CAPITOL AVENUE, SUITE 100 THE MANUFACTURER'S GUIDELINES. SACRAMENTO, CA 95816 916 368 7990 / www.hmcarchitects.com 6" TOP SET BASE - REFER TO DETAIL 5/A1.2 ACCESSIBLE TOILET - SEE DETAIL 14/P2.0 PAPER TOWEL DISPENSER OR HAND DRY △ **DESCRIPTION** DATE LIGHT SWITCH - SEE ELECTRICAL **TOILET PAPER DISPENSER** TYP. GFCI OUTLET 787 Spreckels Ave., Manteca, CA 95336 SEAT COVER DISPENSER PER P1.0 STAFF'S RESTROOM Phone (209) 825-1921 Fax (209) 825-7018 SEE SHEET A4.2 FOR ALTERNATE HEIGHT ELEVATIONS www.americanmodular.com CCESSIBLE LAVATORY - SEE DETAIL 17/P2.0 TOILET PARTITIONS: SOLID PLASTIC BY ACCURATE PARTITIONS CORP., OR RESTROOM SIDEWALL ELEVATION - GIRLS, STAFF, BOYS RESTROOM SIDEWALL ELEVATION - GIRLS, STAFF, BOYS EQUIVALENT, w/ FLOOR ANCHORS, OVERHEAD BRACED OR EQUIVALENT. INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMEN COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS) MINIMUM FLAME SPREAD RATING: 50. MINIMUM SMOKE DEVELOPMENT RATING: IS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIET 450. (BY OTHERS) **KEYNOTES** RTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMA AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINA /ITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICAT 14 > TYP. MIRROR (19# MAX. WEIGHT) - SEE DETAIL 17/P2.0 AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTE

COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR (15) WINDOW - SEE SPEC'S INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE DNSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISH PPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITT SENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION NOTE: FOR ACCESSIBLE FIXTURES & ACCESSORIES MOUNTING HEIGHT REQUIREMENTS (PER CBC CHAPTER 11B), SEE SHEET P2.0/10 FOR ACCESSIBLE HEIGHTS TABLE. 24' x 40' THRU 120' x 40' STANDARD MODULAR BUILDING SEE SHEET A4.2 FOR ALTERNATE HEIGHT ELEVATIONS SITE SPECIFIC PROJECT NAME **KEY NOTES** RESTROOM SIDEWALL ELEVATION - BOYS & GIRLS STROOM SIDEWALL ELEVATION - BOYS & SEE SHEET A4.1-N FOR **GENERAL NOTES** DIV. OF THE STATE ARCHIT SITE-SPECIFIC SHEET SEE SHEET A4.2 FOR ALTERNATE HEIGHT ELEVATIONS SEE SHEET A4.2 FOR ALTERNATE HEIGHT ELEVATIONS THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD. ART FREILER ELEMENTARY SCHOOL GLE TOILET ELEVATION - UNISEX
SCALE: 1/4" = 1'-0" SINGLE TOILET ELEVATION - UNISEX
SCALE: 1/4" = 1'-0" 2421 W LOWELL AVE **TRACY, CA 95377** DRAWN BY: AA AS NOTED PROJECT: MM/DD/YY ART FREILER ES - TK CLASSROOM INTERIOR ELEVATIONS **INTERIOR ELEVATIONS RESTROOM OPTIONS** RESTROOM OPTIONS DATE: 04/03/24 CLIENT PROJ NO: 35950010 15 SINGLE TOILET ELEVATION - UNISEX 18 NOT USED 17 NOT USED 16 NOT USED PLEASE RECYCLE

REQUIRED @ BELOW GRADE CONDITION PER 1/S1.4 OPTIONAL @ ABOVE GRADE

SEE DETAIL 8/- FOR INFO

12 ALTERNATE BUILDING CORNER DETAIL

17 RIGID INSULATION @ METAL STUDS
SCALE: 3" = 1'-0"

EXTERIOR

- TYP. EXTERIOR

- METAL STUD

WHEN USED

AP SIDING

16" HARDIPLANK

TALL PER

EET NOTE #7

PER PLAN

NOT SHOWN

STUDS (NOMIN

CAP HEAD -

O.C. FIELD

SHEETROCK -

TACKBOARD

VINYL -

SCREWS @ 12"

O.C. EDGES, 16"

CONDITION PER 1A/S1.4

TOP OF MOWSTRIP OR GRADE

THICKEN MOW STRIP/WALKWAY ———/

w/ 6" MIN. OVERLAP UNDER

(NOT REQUIRED @ ABOVE

(NOT REQUIRED @ ABOVE

CONT. 22Ga. GALV.—

CONT. FLASHING

CAULKING -

COUNTER FLASHING

GRADE CONDITION)

GRADE CONDITION)

18 FLASHING DETAIL FOR BUILDINGS 2160 SQ. FT. OR LESS

TO PROVIDE 4" MINIMUM COVER

TO BUILDING FLOOR FRAMING

- TYP. EXTERIOR

SCALE: 3" = 1'-0" 11 NOT USED

NOT USED

WALL

FOR OPTIONAL METAL STUD FRAMING, SEE S9.0-S9.2.

FOR FINISH OPTIONS, SEE SHEET A7.0.

DETAILS 10 & 19/-.

PER ASTM E84

PROVIDED BY DETAIL 10 & 19/-.

SHOWN OR NOTED ON DETAIL ON THIS SHEET

ADDITIONAL R-5 RIGID INSULATION REQUIRED @ METAL STUD WALLS. REFER

FOR BUILDINGS 2160 SQ. FT. OR LESS & ALL BUILDINGS INSTALLED ON ABOVE

GRADE FOUNDATIONS PER 1A/S1.4 , FLASHING SHALL BE PROVIDED PER

FOR BUILDINGS LARGER THAN 2160 SQ. FT. INSTALLED ON BELOW GRADE

FOUNDATIONS PER 1/S1.4, FLASHING & DETERIORATION PROTECTION SHALL

NOT REQUIRED BY THE SHEET NOTES OF SHEET A5.5A, FLASHING SHALL BE

LAP SIDING SPECIFICATIONS - FACTORY PRIMED FIBER CEMENT BOARDS - 12'

ATTACHED WITH 8D RING SHANK GALVANIZED NAILS TO EACH STUD (16" O.C.).

SHEET NOTES

INSTALLATION PER MANUFACTURER'S INSTRUCTIONS. PLANKS SHALL BE

FLAME SPREAD OF 0 (ASTM E84) & SMOKE DEVELOPMENT OF LESS THAN 5

LENGTH X 4"-10-3/4" PLANKS. ASTM-D3359 & ASTM-E136 TESTED -

BE PROVIDED PER SHEET S5.5A. WHERE DETERIORATION PROTECTION IS

TO MINIMUM INSULATION SCHEDULES ON SHEET M1.7. & DETAIL 18/-

REFER TO SHEET A7.3 FOR ALL BUILDING INSULATION INSTALLATION NOT

— FLOOR SYSTEM PER SHT S3.0,

S3.1, S3.2, OR S3.3.

-STEEL BEAM

1. FOR FURTHER CLARIFICATION OF FLASHING,

BUILDINGS 2160 SQ. FT. OR LESS AND FOR ALL BUILDINGS FOR WHICH DETERIORATION PROTECTION IS NOT REQUIRED PER SHEET A5.5A.

2. FLASHING DETAILS 10 & 19/- ARE VALID FOR ALL

SEE ISOMETRIC VIEW - DETAIL 10/-.

(NOT REQUIRED @ ABOVE

GRADE CONDITION)

FACILITY:

ART FREILER ELEMENTARY SCHOOL
2421 W LOWELL AVE
TRACY, CA 95377

PROJECT:
ART FREILER ES - TK CLASSROOM

SHEET NAME:

TYP. ARCHITECTURAL DETAILS - LAP SIDING OPTION

DATE: **04/03/24** CLIENT PROJ NO: **3595001000**

A5.5
ADDENDUM "A"

PLEASE RECYCLE &

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UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

RAWN BY:

ROJECT NO:

SHEET TITLE:

SHEET NUMBER:

SCALE: 3" = 1'-0"

AA

AS NOTED

MM/DD/YY

TYP. ARCHITECTURAL DETAILS

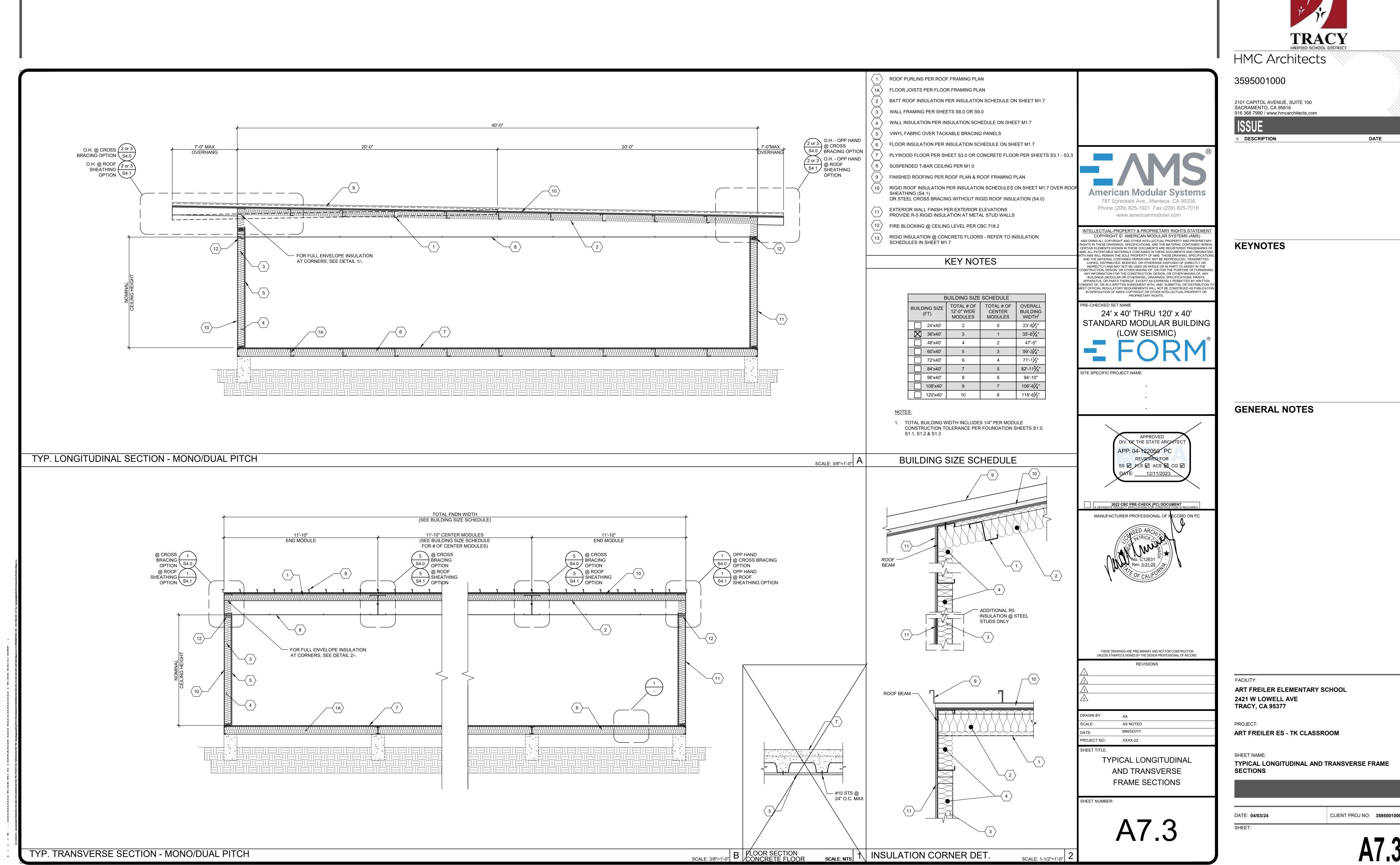
- LAP SIDING OPTION

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 02-122975 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 DATE: 03/12/2025

CLIENT PROJ NO: 3595001000

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SO.0
DDENDUM "A"

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC SS 🗹 FLS 🗹 ACS 🗹

SI.OA

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SI.0B
ADDENDUM "A"

ADDENDUM "A"

DATE



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△ **DESCRIPTION**

KEYNOTES

GENERAL NOTES

FACILITY:

DATE: 04/03/24

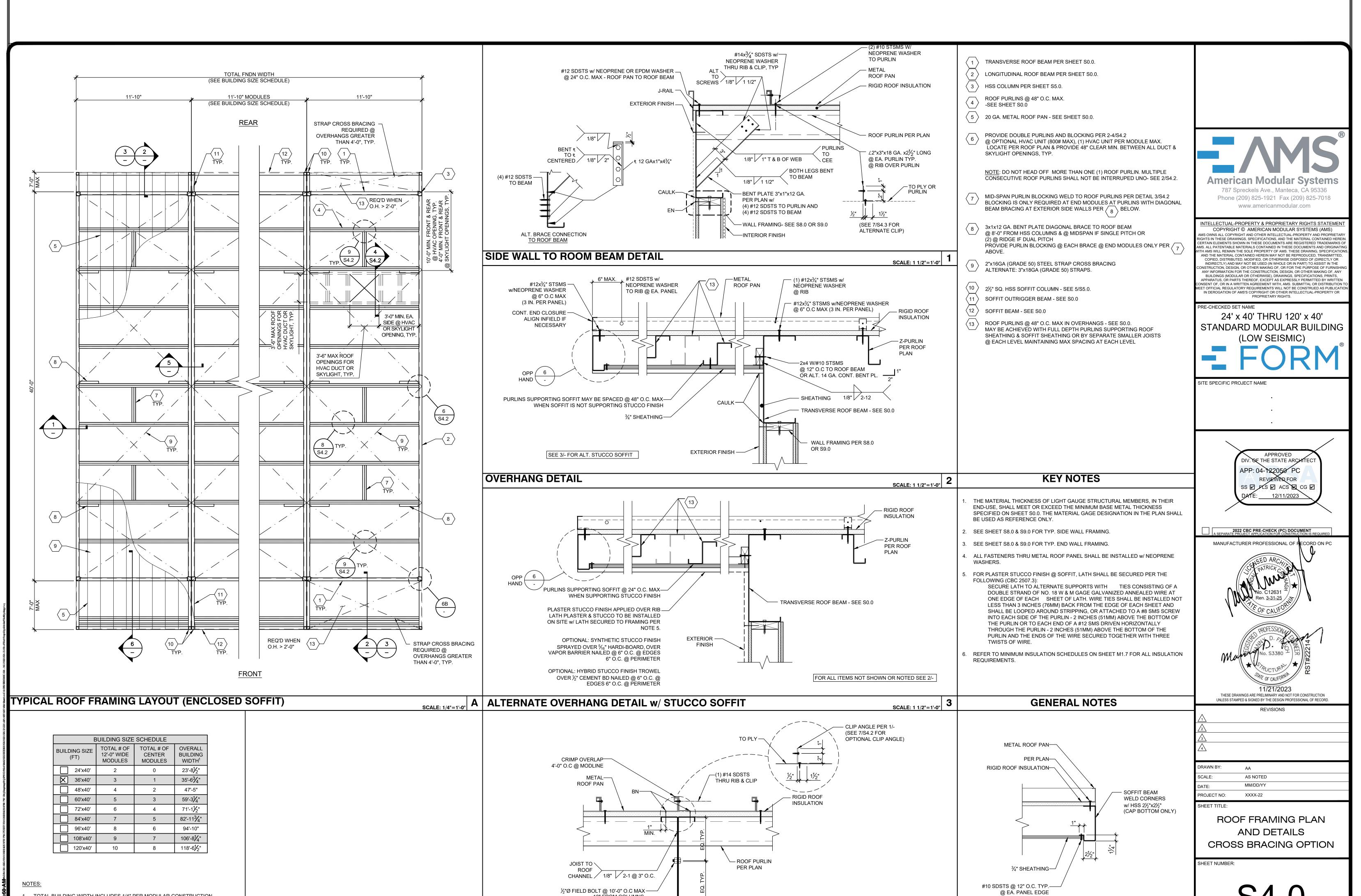
ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE **TRACY, CA 95377**

PROJECT:

ART FREILER ES - TK CLASSROOM

ROOF FRAMING PLAN AND DETAILS CROSS BRACING OPTION

CLIENT PROJ NO: 359500100



10" FROM COLUMNS.

SCALE: 1 1/2"=1'-0" 5 ENCLOSED SOFFIT DETAIL

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

(SEE 5/S4.2 FOR OPTIONAL TIE PLATE TO BE USED IN LIEU OF BOLTS)

ROOF BEAM CONNECTION DETAIL

TOTAL BUILDING WIDTH INCLUDES 1/4" PER MODULAR CONSTRUCTION

BUILDING SIZE SCHEDULE

NOT USED

TOLERANCE PER FOUNDATION SHEETS S1.1, S1.2, & S1.3.

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CLIENT PROJ NO: 359500100

PLEASE RECYCLE

S5.0
ADDENDUM "A"

ADDENDUM "A"

DATE



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KEYNOTES

GENERAL NOTES

FACILITY:

DATE: 04/03/24

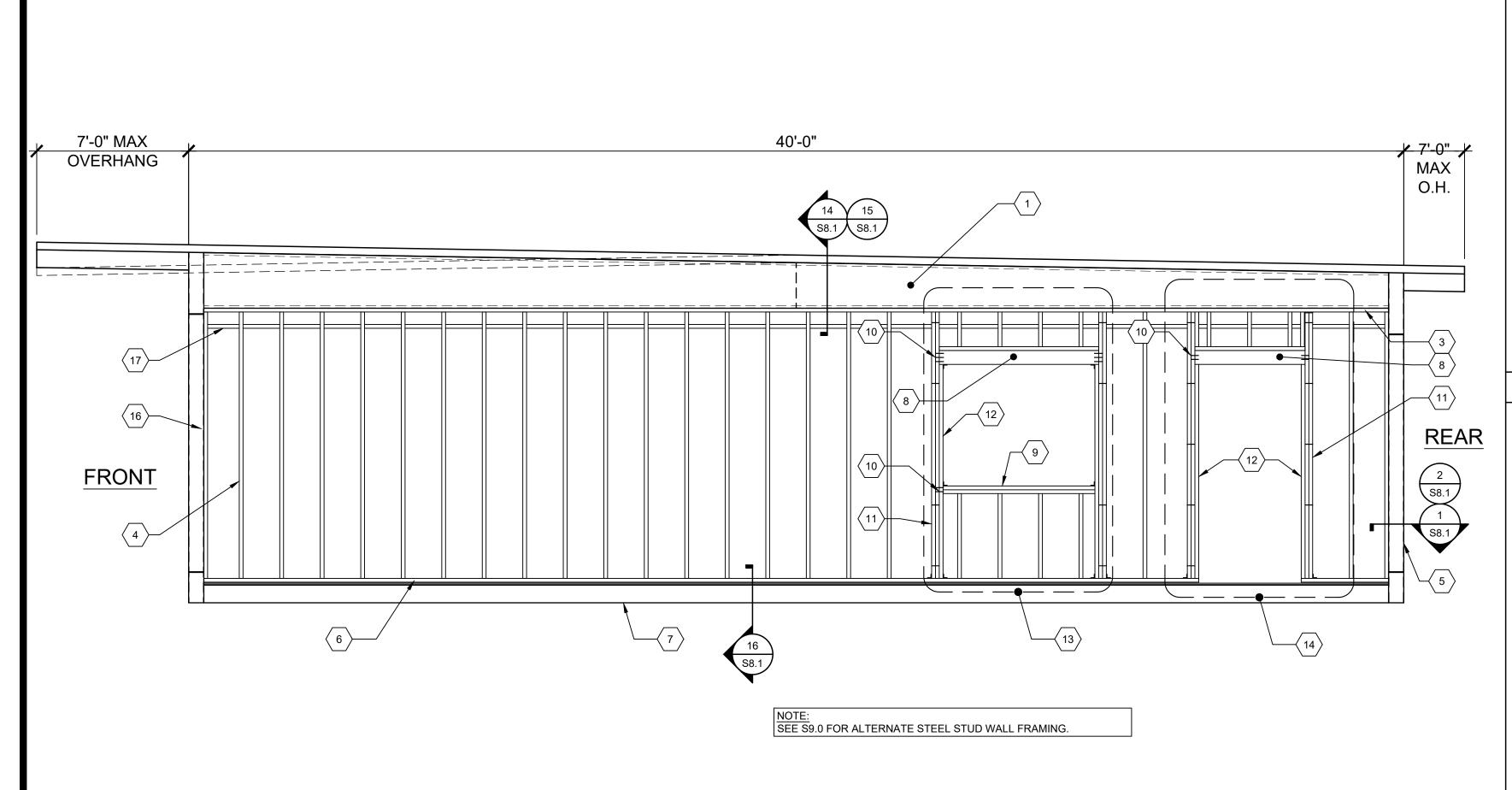
ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE TRACY, CA 95377

PROJECT:

ART FREILER ES - TK CLASSROOM

SHEET NAME: WALL FRAMING ELEVATIONS & SCHEDULES - WOOD

CLIENT PROJ NO: 3595001000



SEE S9.0 FOR ALTERNATE STEEL STUD WALL FRAMING

DOOR/WINDOW OPENING AT TYPICAL WALL (NO STUCCO)

0.131"Øx3" NAILS @ 12"

O.C. MAX STAGGERED

END NAILS

KING STUDS¹ KING STUD INTERNAIL

(2) 2x6

TYP. END WALL FRAMING W/ NO OPENINGS
SCALE: 1/4"=1'-0" 1 TYP. END WALL FRAMING W/ INDOOR HVAC UNIT (OPTIONAL)

WINDOW SILL²

(AS APPLICABLE)

HEADER

4'-0" OR LESS 4x6 FLAT (1) 2x6

>4'-0" TO 6'-0" 4x6 FLAT

>8'-0" TO 10'-0" 6x6 (2) 2x6 (3) 2x6

>6'-0" TO 8'-0" 6x6 (1) 2x6 (2) 2x6

TYPICAL SIDE WALL FRAMING (MONO/DUAL PITCH)

NOTE: SEE S9.0 FOR ALTERNATE STEEL STUD WALL FRAMING.

OPENING SIZE

1 ROOF BEAM PER SHEET S5.0

2 2x6 MIN. TOP PLATE - NO SPLICE

(3) 2x6 MIN. TOP PLATE 2x6 MIN. STUDS SPACED PER SCHEDULE W/(3) 0.131"Ø x3"

 $\stackrel{4}{\longrightarrow}$ END NAILS OR (4) 0.131"Ø x3" TOE NAILS T&B TO PLATES TYP.

5 HSS COLUMN PER SHEET S5.0 \langle 6 \rangle 2x6 MIN. BOTTOM PLATE - NO SPLICE (P.T. AT CONCRETE FLOORS)

FINISH TYPE

 $rac{1}{2}$ " PLYWOOD SHEATHING CONFORMING TO PS1-09, \parallel

1. ALL NAILS IN EXTERIOR APPLICATIONS SHALL BE GALVANIZED.

6" HARDI-BOARD w/ SYNTHETIC STUCCO

APA RATED, 5 PLY 32/16", OR 1/2" OSB PANELS

⁵∕₆" HARDI-LAP SIDING

SEE S9.0 FOR ALTERNATE STEEL STUD WALL FRAMING.

2 TYPICAL END WALL FRAMING WINDOW

EXPOSURE 1 w/ 1/8" STUCCO

NOTE: SEE CARPENTRY NOTES SHEET N1.0 SECTION 6

KEY NOTES

EXTERIOR WALL SCHEDULE

2. TYPICAL PLYWOOD NAILING WHERE OCCURS: 0.131"Ø $x2\frac{1}{4}$ " GALV. NAILS @ 6" O.C. E.N. & 12" O.C. F.N. (ALL EDGES BLOCKED).

EXTERIOR WALL FINISH/WALL STUD SCHEDULE

CORNER

WALL FINISH COMMENTS

WALL FINISH PER A5.4, A5.5, A5.6 & A5.7

WALL FINISH PER A5.2 & A5.3; NAILING PER BLDG

SECTIONS^{1,2}

FOR WOOD SPECIES & GRADE

(6A) 2x6 MIN. BOTTOM PLATE (P.T. AT CONCRETE FLOORS) 7 PERIMETER FLOOR BEAM PER SHEET S5.0

(8) HEADER PER OPENING SCHEDULE

(9) WINDOW SILL PER OPENING SCHEDULE

END NAILS THROUGH KING STUD TO HEADER SILL PER OPENING SCHEDULE

STUD TYPE

DOUG FIR #2

DOUG FIR #2

NOTE: SEE S9.0 FOR ALTERNATE STEEL STUD WALL FRAMING.

1 TYPICAL END WALL FRAMING w/ DOOR

HEADER TO KING STUD NAILING WINDOW SILL TO KING STUD NAILING

STUD SPACING

16" O.C. MAX

16" O.C. MAX

(11) KING STUDS PER OPENING SCHEDULE

OPTIONAL WINDOW OPENING FRAMING PER SCHEDULE (REFER TO 4/S8.0 FOR DETAILS AND FLOOR PLANS FOR LOCATIONS)

OPTIONAL DOOR OPENING FRAMING PER SCHEDULE (REFER TO 5/S8.0 FOR DETAILS AND FLOOR PLANS FOR LOCATIONS)

HVAC OPENING @ EXTERIOR WALL (600#MAX WT.)
SEE DETAIL 3/S8.1 FOR HVAC ATTACHMENT - SEE

DETAIL 3/S8.1 FOR HVAC ATTACHMENT $\langle 16 \rangle$ 2x DOUBLE NAILER

 $\langle 12 \rangle$ 2x6 MIN. TRIMMER

17 FIRE BLOCKING @ 10'-0" AFF VERTICALLY, HORIZONTALLY AT THE CEILING AND FLOOR LEVELS. **American Modular Systems** 787 Spreckels Ave., Manteca, CA 95336 Phone (209) 825-1921 Fax (209) 825-7018 www.americanmodular.com

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PRE-CHECKED SET NAME 24' x 40' THRU 120' x 40' STANDARD MODULAR BUILDING (LOW SEISMIC)

SITE SPECIFIC PROJECT NAME

DIV. OF THE STATE ARCHITEC APP: 04-122050 PC SS I FLS I ACS I CG I

2022 CBC PRE-CHECK (PC) DOCUMENT

MANUFACTURER PROFESSIONAL OF RECORD ON PC THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

DRAWN BY: AA AS NOTED MM/DD/YY PROJECT NO: XXXX-22

> WALL FRAMING **ELEVATIONS & SCHEDULES** - WOOD STUDS

SHEET NUMBER:

SHEET TITLE:

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

WINDOW SILL² OPENING SIZE HEADER (AS APPLICABLE) >8'-0" TO 10'-0" 6x6 (2) 2x6 >6'-0" TO 8'-0" 6x6 (2) 2x6 >4'-0" TO 6'-0" 4x6 FLAT (1) 2x6 4'-0" OR LESS 4x6 FLAT (1) 2x6

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

SCALE: 3/8"=1'-0"

-HVAC DUCT OPENING LOCATIONS MAY VARY ANYWHERE ALONG ROOF BEAM (EXCEPT AS SHOWN

> KING STUDS¹ KING STUD INTERNAIL (3) 2x6 0.131"Øx3" NAILS @ 12" (2) 2x6 O.C. MAX STAGGERED

DOOR/WINDOW OPENING AT STUCCO WALL

END NAILS # FACE NAILS # END NAILS # FACE NAILS

1ST KING STUD KING STUD TO KING STUD TO KING STUD TO KING TO HEADER³ | STUD @ HEADER | WINDOW SILL³ | STUD @ WINDOW SILL (0.131"Øx3" NAILS) | (0.131"Øx3" NAILS) | (0.131"Øx3" NAILS) | (0.131"Øx3" NAILS)

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

PROVIDE (1) SIMPSON A34 T&B OF KING STUDS TO PLATES FOR OPENINGS 4'-0" OR LESS.

FOOTNOTES 1. PROVIDE (2) SIMPSON A34 T&B OF KING STUDS TO PLATES FOR OPENINGS GREATER THAN 4'-0".

2. WHEN MORE THAN A SINGLE SILL PLATE IS REQUIRED, INTERNAIL w/ 0.131"Øx3" NAILS @ 12" O.C. STAGGERED. 3. TWO (2) END NAILS PER LAMINATION MINIMUM.

OPENING SCHEDULE

SEE S9.0 FOR ALTERNATE STEEL STUD WALL FRAMING.

JNIT
SCALE: 1/4"=1'-0" 2 TYP. END WALL FRAMING W/ WALL HUNG HVAC UNIT
(OPTIONAL)
SCAL

KING STUD TO KING

STUD @ WINDOW

SILL (0.131"Øx3"

NAILS)

HEADER TO KING STUD NAILING WINDOW SILL TO KING STUD NAILING

FACE NAILS

1ST KING STUD KING STUD TO KING 1ST KING STUD TO

TO HEADER³ STUD @ HEADER

(0.131"Øx3" NAILS) (0.131"Øx3" NAILS)

END NAILS

WINDOW SILL³

(0.131"Øx3" NAILS)

IDENTIFICATION STAMP

SS 🗹 FLS 🗹 ACS 🗹

ADDENDUM "A"

IDENTIFICATION STAMP

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-122975 INC:

REVIEWED FOR SS FLS ACS DATE: 03/12/2025

DATE



HMC Architects

3595001000

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ISSUE

△ DESCRIPTION

KEYNOTES

GENERAL NOTES

FACILITY:

DATE: 04/03/24

ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE TRACY, CA 95377

PROJECT:

ART FREILER ES - TK CLASSROOM

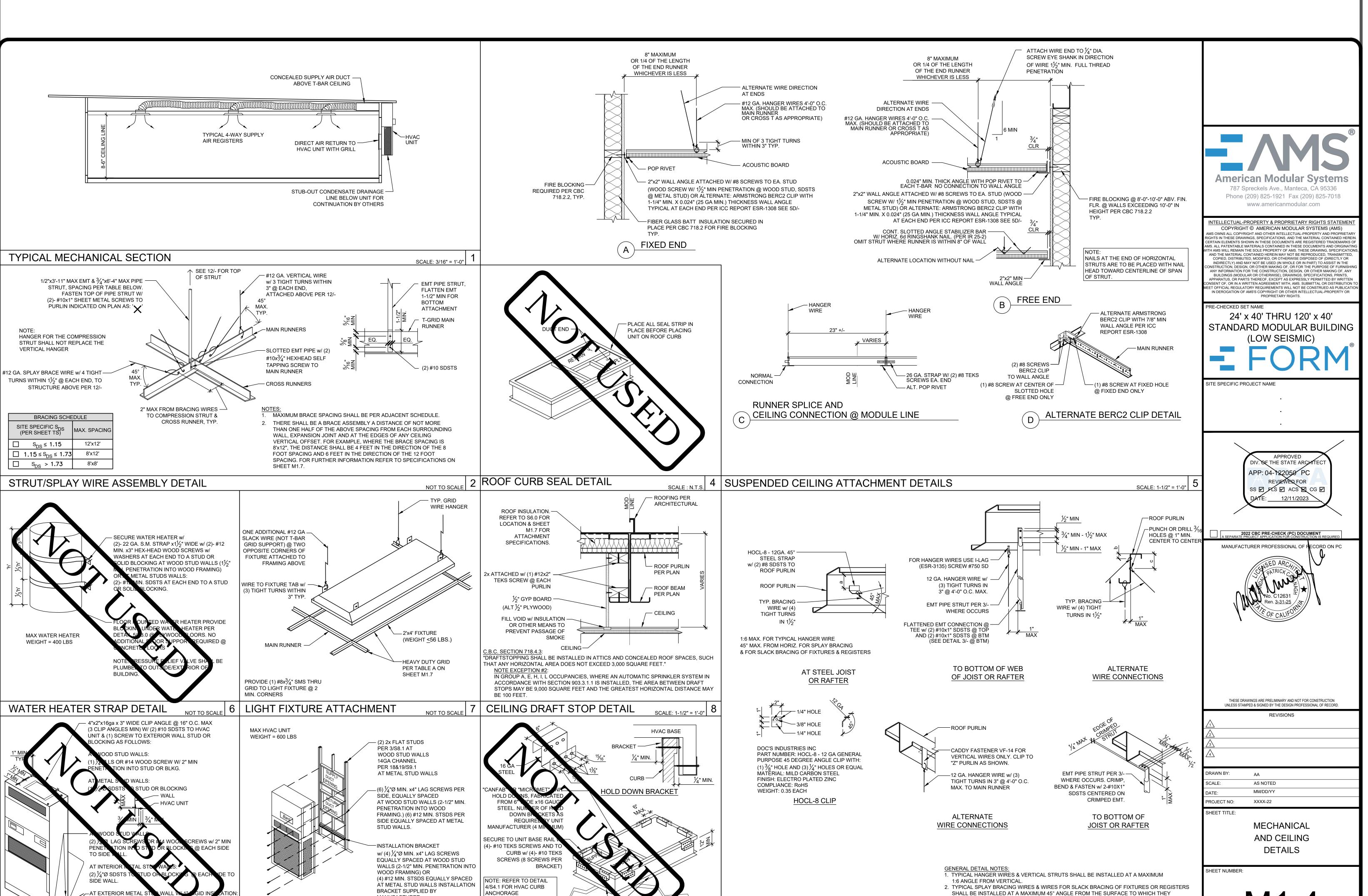
SHEET NAME:

MECHANICAL AND CEILING DETAILS

M1.4

CLIENT PROJ NO: 359500100

ADDENDUM "A"



MANUFACTURER

9 WALL MOUNT HVAC ANCHORAGE NOT TO SCALE 10 OPTIONAL HVAC ROOF CURB

OVERLAP ROOFING ----

ONTO CURB AND SEAL

(3) $\frac{1}{4}$ "Ø SDSTS TO STUD OR

SIDE WALL.

FINISH FLOOR

INTERIOR HVAC ANCHORAGE

NOT TO SCALE

ARE ATTACHED.

NOT TO SCALE 11 SUSPENDED CEILING TO PURLIN CONNECTION DETAILS

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 02-122975 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

DATE



PLEASE RECYCLE

CLIENT PROJ NO: 359500100

APP: 02-122975 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

DATE



CLIENT PROJ NO: 359500100

PLEASE RECYCLE ADDENDUM "A"

DATE

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DESCRIPTION

GENERAL NOTES

ART FREILER ELEMENTARY SCHOOL

ART FREILER ES - TK CLASSROOM

CEILING NOTES & SPECIFICATIONS

2421 W LOWELL AVE

TRACY. CA 95377

PROJECT:

SHEET NAME:

DATE: 04/03/24

APPROVED DIV. OF THE STATE ARCHITEC APP: 04-122050 PC SS D FLS D ACS CG D

2022 CBC PRE-CHECK (PC) DOCUMENT

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RAWN BY AA AS NOTED MM/DD/YY PROJECT NO: XXXX-22

PLEASE RECYCLE 🗟

3595001000

2101 CAPITOL AVENUE, SUITE 100 SACRAMENTO, CA 95816

KEYNOTES

(LOW SEISMIC)

SITE SPECIFIC PROJECT NAME

SHEET TITLE:

CEILING NOTES

24'x40' MINIMUM INSULATION SCHEDULE R-13 R-5/R-13 R-13 R-5/R-13 R-19

| × | 36'x | 40' MIN | IMUM | INSULA | ATION S | SCHEDULE | | |
|---------|------------|-------------|-------|------------------------|--------------------------|----------------|-----------------|--|
| | WOOD STUDS | METAL STUDS | | ROOF | | FLOORS | CONCRETE FLOORS | |
| ZONE | WALL | WALL | BATTS | RIGID (w/SHEATHING) | RIGID (w/o SHEATHING) | (NON-CONCRETE) | | |
| 1 & 16 | R-13 | R-5/R-13 | R-19 | R-15 | R-15 | R-13 | R-5 | |
| 2 - 5 | R-13 | R-5/R-13 | R-19 | R-5 | R-5 | R-13 | N/A | |
| 6 -13 | R-13 | R-5/R-13 | R-19 | R-5 | R-5 | R-13 | N/A | |
| 14 & 15 | R-13 | R-5/R-13 | R-19 | R-5 | R-5 | R-13 | N/A | |

| | 48'x | 40' MIN | IMUM | INSULA | ATION S | SCHEDULE | . / |
|---------|------------|-------------|-------|------------------------|--------------------------|----------------|-----------------|
| | WOOD STUDS | METAL STUDS | | ROOF | | FLOORS | |
| ZÓNE | WALL | WALL | BATTS | RIGID (w/SHEATHING) | RIGID (w/o SHEATHING) | (NON-CONCRETE) | CONCRETE FLOORS |
| 1 & 16 | R-13 | R-5/R-13 | R-19 | R-15 | R-15 | R-13 | R- / |
| 2-5 | R-13 | R-5/R-13 | R-19 | R-5 | R-5 | R-13 | N/A |
| 6 -13 | R-13 | R-5/R-13 | R-19 | R-5 | R-5 | R-13 | / N/A |
| 14 & 15 | R-13 | R-5/R-13 | R-19 | R-5 | R-5 | R-13 | N/A |

| | \ | | | | | | | | | | | |
|-------------------------------------|------------|-------------|-------|---------------------------|--------|----------------|-----------------|--|--|--|--|--|
| ©0'x40' MINIMUM INSULATION SCHEDULE | | | | | | | | | | | | |
| | WOOD STUDS | METAL STUDS | ROOF | | FLOORS | | | | | | | |
| ZONE | WALL | WALL | BATTS | BATTS RIGID (w/SHEATHING) | | (NON-CONCRETE) | CONCRETE FLOORS | | | | | |
| 1 & 16 | R-13 | R-5/R-13 | R-19 | R-15 | R-15 | R-13 | R-5 | | | | | |
| 2 - 5 | R-13 | R-5/R-13 | R-19 | R-5 | R-5 | R-1/3 | N/A | | | | | |
| 6 -13 | R-13 | R-5/R-13 | R-19 | R-5 | R-5 | F 2 −13 | N/A | | | | | |
| 14 & 15 | R-13 | R-5/R-13 | R-19 | R-5 | R-5 | /R-13 | N/A | | | | | |

| | | | | | | / | | | | | | |
|------------------------------------|------------|-------------|---------------|------------------------|--------------------------|----------------|-----------------|--|--|--|--|--|
| 72'x40' MNIMUM INSULATION SCHEDULE | | | | | | | | | | | | |
| | WOOD STUDS | METAL STUDS | | ROOF | | FLOORS | | | | | | |
| ZONE | WALL | WALL | BATTS | RIGID (w/SHEATHING) | RIGID (w/o SHEATHING) | (NON-CONCRETE) | CONCRETE FLOORS | | | | | |
| 1 & 16 | R-13 | R-5/R-13 | R-19 | R-15 | R-15 | R-13 | R-5 | | | | | |
| 2 - 5 | R-13 | R-5/R-13 | F - 19 | R-5 | R-5 | R-13 | N/A | | | | | |
| 6 -13 | R-13 | R-5/R-13 | R-19 | R-5 | F l-5 | R-13 | N/A | | | | | |
| 14 & 15 | R-13 | R-5/R-13 | R-19 | R-5 | /R-5 | R-13 | N/A | | | | | |

| _ | | | | | , | | | | | | | | |
|---|-------------------------------------|------------|-------------|-------|------------------------|--------------------------|----------------|-----------------|--|--|--|--|--|
| | 84'x40' MINIMUM INSULATION SCHEDULE | | | | | | | | | | | | |
| | | WOOD STUDS | METAL STUDS | | ROOF | | FLOORS | | | | | | |
| | ZONE | WALL | WALL | BATTS | RIGID (w/SHEATHING) | RIGID (w/o SHEATHING) | (NON-CONCRETE) | CONCRETE FLOORS | | | | | |
| | 1 & 16 | R-13 | R-5/R-13 | R-19 | R/15 | R-15 | R-13 | R-15 | | | | | |
| | 2 - 5 | R-13 | R-5/R-13 | R-19 | /R-5 | R-5 | R-13 | N/A | | | | | |
| | 6 -13 | R-13 | R-5/R-13 | R-19 | R-5 | R-5 | R-13 | N/A | | | | | |
| | 14 & 15 | R-13 | R-5/R-13 | R-19 | R-5 | R-5 | R-13 | N/A | | | | | |

| 96'x40' MINIMUM INSULATION SCHEDULE | | | | | | | | | | | | | |
|-------------------------------------|------------|-------------|-------|----|------------------------|----------------|-------------|----------------|--------|-----------------|------|-----|--|
| | WOOD STUDS | METAL STUDS | | | ROOF | | \setminus | | FLOORS | | | | |
| ZONE | WALL | WALL | BATTS | | RIGID (w/SHEATHING) | RIGIE SHEAT | | (NON-CONCRETE) | | CONCRETE FLOORS | | | |
| 1 & 16 | R-13 | R-5/R-13 | / R-1 | 19 | R-15 | R- | 15 | | R-13 | R-5 | | | |
| 2 - 5 | R-13 | R-5/R-13 | R-1 | 19 | R-5 | R | R-5 | | ₹-5 | | R-13 | N/A | |
| 6 -13 | R-13 | R-5/R-13 | R-1 | 19 | R-5 | R | -5 | | R-13 | N/A | | | |
| 14 & 15 | R-13 | R-5/R-13 | R-1 | 19 | R-5 | R | -5 | | R-13 | N/A | | | |

| 108'x40 MINIMUM INSULATION SCHEDULE | | | | | | | | | | | | |
|-------------------------------------|------------|-------------|-------|------------------------|--------------------------|----------------|-----------------|--|--|--|--|--|
| | WOOD STUDS | METAL STUDS | | ROOF | | FLOORS | | | | | | |
| ZONE | WALL | WALL | BATTS | RIGID (w/SHEATHING) | RIGID (w/o SHEATHING) | (NON-CONORETE) | CONCRETE FLOORS | | | | | |
| 1 & 16 | R-13 | R-5/R-13 | R-19 | R-15 | R-15 | R-13 | R-15 | | | | | |
| 2 - 5 | R-13 | R-5/R-13 | R-19 | R-5 | R-5 | R-13 | N/A | | | | | |
| 6 -13 | R-13 | R-5/R-13 | R-19 | R-5 | R-5 | R-13 | N/A | | | | | |
| 14 & 15 | R/13 | R-5/R-13 | R-19 | R-5 | R-5 | R-13 | N/A | | | | | |

| | ל'120 | 120'x40' MINIMUM INSULATION SCHEDULE \ | | | | | | | | | | | | |
|---------|------------|--|---------------------------|------|--------------------------|-----------------|-----|----------------|--|--|--|--|--|--|
| / | WOOD STUDS | METAL STUDS | | ROOF | FLOORS | CONCRETE FLOORS | | | | | | | | |
| ZONE/ | WALL | WALL | BATTS RIGID (w/SHEATHING) | | RIGID (w/o SHEATHING) | | | (NON-CONCRETE) | | | | | | |
| 1 &/16 | R-13 | R-5/R-13 | R-19 | R-15 | R-15 | R-13 | R-5 | | | | | | | |
| 2 - 5 | R-13 | R-5/R-13 | R-19 | R-5 | R-5 | R-13 | N/A | | | | | | | |
| 6 -13 | R-13 | R-5/R-13 | R-19 | R-5 | R-5 | R-13 | N/A | | | | | | | |
| 14 & 15 | R-13 | R-5/R-13 | R-19 | R-5 | R-5 | R-13 | N/A | | | | | | | |

ADDITIONAL HVAC NOTES:

MANUAL OVERRIDE CONTROLS ARE A MANDATORY MEASURE UNDER ENERGY CODE SECTION 120.2(e). ALL HVAC SYSTEMS SHALL HAVE A MANUAL OVERRIDE ACCESSIBLE TO THE OCCUPANTS THAT ALLOWS THEM TO TURN ON THE HVAC SYSTEM DURING NORMAL UNOCCUPIED TIMES. THIS CAN BE A MANUAL OVERRIDE FOR UP TO 4 HOURS, OCCUPANCY SENSOR, OR A 4 HOUR MANUALLY OPERATED TIMER.

SUSPENDED LAY-IN PANEL CEILING: PER DSA IR 25-2

1. CEILING SYSTEM GENERAL NOTES

- 1.01 CEILING SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635 AND SECTION 5.1 OF ASTM E580.
- 1.02 THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635.
- 1.03 CEILING SYSTEMS. THE FOLLOWING CEILING SYSTEM(S) IS/ARE PART OF THE SCOPE OF THIS PROJECT:
- MANUFACTURER: **ARMSTONG (OR EQUAL)**
- PRODUCT NAME: PRELUDE XL AND PRELUDE XL HIGH RECYLED CONTENT(HRC) ICC
- EVALUATION REPORT TYPE AND NUMBER: **ESR#1308**
- CROSS RUNNER PART, MODEL, CATALOG NUMBER: 4' CROSS T # XL7341 & 2' CROSS T # XL8320

MAIN RUNNER PART, MODEL, OR CATALOG NUMBER: 7301

- 1.04 SEISMIC WALL CLIP: BERC2 CLIP MANUFACTURER'S MODEL: 7810 1.05 CEILING PANELS SHALL NOT SUPPORT ANY LUMINARIES, AIR TERMINALS OR DEVICES.
- 1.06 FOR CEILING INSTALLATIONS UTILIZING ACOUSTICAL TILE PANELS OF MINERAL OR GLASS FIBER, IT IS NOT MANDATORY TO PROVIDE 3/4" CLEARANCE BETWEEN THE ACOUSTICAL TILE PANELS AND THE WALL ON THE SIDES OF THE CEILING WHICH ARE FREE TO SLIP. FOR ALL OTHER CEILING PANEL TYPES, PROVIDE 3/4" CLEARANCE BETWEEN THE CEILING PANEL AND THE WALL ON THE SIDES OF THE CEILING FREE TO SLIP. CLEARANCE BETWEEN CEILING GRID RUNNERS/MEMBERS AND WALLS SHALL COMPLY WITH THE DETAILS ON THESE DRAWINGS REGARDLESS OF CEILING TILE
- MATERIAL.
- 2.01 CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING
- TO ASTM A641. WIRE SHALL BE #12 GAUGE (0.106" DIAMETER) WITH SOFT TEMPER AND MINIMUM ULTIMATE TENSILE STRENGTH = 70 KSI.
- 2.02 GALVANIZED SHEET STEEL (INCLUDING THAT USED FOR METAL STUD AND TRACK COMPRESSION STRUTS/POST) SHALL CONFORM TO ASTM A653, OR OTHER EQUIVALENT SHEET STEEL LISTED IN SECTION A3.1 OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, (AISI S100). MATERIAL 43 MIL (18 GAUGE) AND LIGHTER SHALL HAVE MINIMUM YIELD STRENGTH OF 33 KSI. MATERIAL 54 MIL (16
- GAUGE) AND HEAVIER SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI. 2.03 ELECTRICAL METALLIC TUBE (EMT) SHALL BE ANSI C80.3/UL 797 CARBON STEEL WITH G90 GALVANIZING. EMT SHALL HAVE MINIMUM YIELD STRENGTH (Fy) OF 30 KSI AND MINIMUM ULTIMATE STRENGTH (Fu) OF 48 KSI.
- 3. ATTACHMENT OF HANGER AND BRACING WIRES
- 3.01 SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT,
- 3.02 HANGER AND BRACING WIRES SHALL NOT ATTACH TO OR BEND AROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO PIPING, DUCTWORK, CONDUIT AND EQUIPMENT.
- 3.03 HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING
- 3.04 SLACK SAFETY WIRES SHALL BE CONSIDERED HANGER WIRES FOR INSTALLATION AND TESTING REQUIREMENTS.
- 3.05 HANGER AND BRACING WIRE ANCHORAGE TO THE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHORAGE ALIGNS CLOSELY WITH THE DIRECTION OF THE WIRE (E.G., BRACING WIRE CEILING CLIPS MUST BE BENT AS SHOWN IN THE DETAILS AND ROTATED AS REQUIRED TO ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, SCREW EYES IN WOOD MUST BE INSTALLED SO THEY ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, ETC.).
- 4. FASTENERS AND WELDING
- 4.01 SHEET METAL SCREWS SHALL COMPLY WITH ASTM C1513 AND ASME B18.6.3. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.
- 4.02 N/A
- 4.04 IF NOT OTHERWISE SPECIFIED IN THE EVALUATION REPORT, POWER-ACTUATED FASTENERS INSTALLED IN STEEL SHALL BE INSTALLED SO THE ENTIRE POINTED END OF THE FASTENER IS DRIVEN THROUGH THE STEEL MEMBER
- 4.05 POWER-ACTUATED FASTENERS IN CONCRETE OR MASONRY ARE NOT PERMITTED FOR
- 4.06 CONCRETE REINFORCEMENT AND PRE-STRESSING TENDONS SHALL BE LOCATED BY NON-DESTRUCTIVE MEANS PRIOR TO INSTALLING POST-INSTALLED ANCHORS.
- 4.07 WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES.
- 5.01 ALL FIELD TESTING MUST BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR.
- 5.02 POST-INSTALLED ANCHORS IN CONCRETE USED TO SUPPORT HANGER WIRES SHALL BE TESTED AT A FREQUENCY OF 10 PERCENT. POWER-ACTUATED FASTENERS IN CONCRETE SHALL BE FIELD TESTED FOR 200 POUNDS IN TENSION. ALL OTHER POST-INSTALLED ANCHORS IN CONCRETE SHALL BE TESTED IN ACCORDANCE WITH CBC
- SECTION 1910A.5. 5.03 POST-INSTALLED ANCHORS IN CONCRETE USED TO ATTACH BRACING WIRES SHALL BE TESTED AT A FREQUENCY OF 50 PERCENT IN ACCORDANCE WITH CBC SECTION 1910A.5.
- 6. LUMINARIES 6.01 ALL LUMINARIES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY
- MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE LUMINARIES. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LUMINARIES, PER ASTM E580 SECTION 5.3.1.
- 6.02 SURFACE-MOUNTED LUMINARIES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST
- TWO POSITIVE CLAMPING DEVICES. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAUGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAUGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN A LUMINARY IS 8 FEET OR LONGER OR EXCEEDS
- 6.03 LUMINARIES WEIGHING LESS THAN OR EQUAL TO 10 POUNDS MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, SHALL HAVE A MINIMUM OF ONE #12 GAUGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.
- 6.04 LUMINARIES WEIGHING GREATER THAN 10 POUNDS BUT LESS THAN OR EQUAL TO 56

56 POUNDS. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED 8 FEET.

- POUNDS MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO #12GAUGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE.
- **EXCEPTION:** ALL LUMINARIES GREATER THAN TWO BY FOUR FEET WEIGHING LESS THAN 56 POUNDS SHALL HAVE A #12 GAUGE SLACK SAFETY WIRE AT EACH CORNER.
- 6.05 ALL LUMINARIES WEIGHING GREATER THAN 56 POUNDS SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR TAUT #12 GAUGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR TAUT #12 GAUGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR TIMES THE WEIGHT OF THE FIXTURE.

THAN10 POUNDS SHALL HAVE A #12 GAUGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHING INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMEN MS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIE RTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEM MS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGIN ITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICA AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTE COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE STRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNI APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTE DISSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION ET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICA IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME 24' x 40' THRU 120' x 40' STANDARD MODULAR BUILDING

ICBO ER

REPORT

ICC-ESR-1222

ICC-ESR-1308

ICC-ESR-2631

SEISMIC WALL

CLIPS

BERC2

BERC2

BERC2

& SPECIFICATIONS

SHEET NUMBER:

ADDENDUM "A"

CLIENT PROJ NO: 359500100

7. SERVICES WITHIN THE CEILING

8. OTHER DEVICES WITHIN THE CEILING

| MANUFACTURER | MAIN TEE | CROSS

DX-26

7301

200.01

2. REFER TO 'A' DETAIL 5/M1.4 FOR BERC2 CLIP DETAIL

1. ALL GRID COMPONENTS SHALL BE BY THE SAME MANUFACTURER

DONN/USG

ARMSTRONG

CHICAGO/ROCKFON

7.01 ALL FLEXIBLE SPRINKLER HOSE FITTING MOUNTING BRACKETS, CEILING-MOUNTED AIR

CORNERS) CONNECTED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.

8.01 ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY

MORE THAN 20 POUNDS SHALL BE SUPPORTED INDEPENDENTLY FROM THE STRUCTURE ABOVE.

H.D. 4'

TEE

DX-424

XL7341

1274.01

TERMINALS OR OTHER SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL

MEANS. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH

7.02 CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 POUNDS SHALL HAVE ONE

7.03 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 20 POUNDS BUT LESS THAN OR EQUAL TO 56 POUNDS SHALL HAVE TWO #12 GAUGE SLACK SAFETY WIRES (AT DIAGONAL

7.04 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 56

WIRES ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS.

POUNDS SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR TAUT #12 GAUGE HANGER

SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID. IN ADDITION, DEVICES WEIGHING MORE

TABLE A - HEAVY DUTY GRID COMPONENTS

CROSS TEE | SPLICE DETAIL

RUNNER

5C/M1.4

5C/M1.4

H.D. 2'

DX-216

XL8320

1202.01

#12 GAUGE SLACK SAFETY WIRE ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.

HEATING VENTILATING AND AIR CONDITIONING (HVAC)

ATTENUATION AT ALL DUCTWORK WITHIN 2'-0" OF HVAC UNIT.

DUCTWORK SHALL CONFORM TO NFPA 90-A AND SMACNA CLASS 1 RATING.

OR CRUSHED. BEND/RADIUS EQUAL TO THE DUCT DIAMETER OR GREATER.

ELBOW AT A TERMINAL DEVICE PER ENERGY CODE 120.4 AND CMC 603.4.1

OVERRIDE. WHITE RODGERS IF92-371. MOUNT TOP OF BOX @ 48" A.F.F. MAX

TERMS OF THEIR LISTING AND THE REQUIREMENTS OF C.M.C. SECTION 601.0.

A. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES;

QUALITY (IAQ). THE FOLLOWING SHALL COMPLY TITLE 24, PART 11 ("CAL-GREEN"), SECTION 5.504.4.

AND AT 10-FOOT (3048MM) INTERVALS BOTH VERTICAL AND HORIZONTAL

(WHERE SEALED, SETTINGS & ADJUSTMENTS CAN BE DONE BY SERVICE PERSONNEL ONLY.)

CONCRETE FLOORS INSULATION: R-5 OR R-15 (REFER TO INSULATION TABLES IN PAGE M1.7)

A. ROOF INSULATION: R-19 WITH 22 GA. WIRE @ 16" O.C. & R-5 OR R-15 (REFER TO INSULATION TABLES IN

WALLS INSULATION: R-13 KRAFT FACED. (R-5 INSULATION OVER INTERIOR SIDE METAL FRAMED WALLS)

BURNING CHARACTERISTICS: FLAME SPREAD LESS THAN 25 & SMOKE DEVELOPMENT IS LESS THAN 50

E. FLAME SPREAD AND SMOKE DEVELOPMENT SHALL CONFORM TO CALIFORNIA BUILDING CODE SEC. 720.

A. FACTORY-MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE

EACH PORTION OF A FACTORY-MADE AIR DUCT SYSTEM SHALL BE IDENTIFIED BY THE MANUFACTURER WITH A LABEL OR OTHER SUITABLE IDENTIFICATION INDICATING COMPLIANCE WITH C.M.C. SECTION 601.0 AND ITS

DUCT SUPPORT FLEX DUCT TO BE SUPPORTED WITH 1-1/2" WIDE X26 GA. GALV. STRAP @ MAX 4'-0" O.C. ATTACH

CLASS DESIGNATION. THESE DUCTS SHALL BE LISTED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE

SUPPLY AIR PLENUM TO BE SUPPORTED WITH 1-1/2" WIDE X26 GA. GALV. STRAPS MINIMUM 2 PER PLENUM.

SUPPLY AIR BOX AND DIFFUSERS TO BE SUPPORTED WITH (2) 12 GA. HANGER WIRES TO BOX @ OPPOSITE

THE INTERIOR ENVIRONMENT SHALL BE ASSEMBLED WITH PRODUCTS THAT CONTRIBUTE TO A HEALTHY INDOOR AIR

FILTERS SHALL HAVE A "MINIMUM EFFICIENCY REPORTING VALUE" OF 13 WITH 2" DEPTH MIN. (MERV 13) AND

SHALL BE INSTALLED PRIOR TO OCCUPANCY AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF

A GASKET SHALL BE PLACED BETWEEN THE CURB AND THE HVAC UNIT. MASTIC SEALANT SHALL BE USED TO

SUPPLY AIR BOX AND DIFFUSERS TO BE BRACED WITH (2) 12 GA. SLACK WIRES TO BOX @ OPPOSITE CORNERS ATTACH SUPPLY AIR DIFFUSERS TO CEILING GRID TO RESIST A LATERAL LOAD EQUAL TO THE WEIGHT OF THE

DUCTS SHALL BE THE SAME SIZE AND ALLIGN WITH THE HVAC UNIT.

ONE-THIRD FRESH AIR.

GENERATION LESS THAN OR EQUAL TO 50.

THERMOSTAT SHALL HAVE THE FOLLOWING FUNCTIONS:

GRADE GRILLS AND REGISTERS.

BEING NORMALLY OCCUPIED.

24-HOUR PERIOD.

BATTERY BACK-UP.

17/A5.1 AND 17/A5.3

FACTORY-MADE AIR DUCTS

THERMAL INSULATION

KEY BOARD LOCKOUT SWITCH. PROGRAMMABLE DISPLAY.

PAGE M1.7) TOP OF ROOF SHEATHING.

NON-CONCRETE FLOORS INSULATION: R-13

REQUIREMENTS OF C.M.C. SECTION 601.0.

TO RAFTER WITH TWO #8 S.M.S. @ EACH END.

AT THE CEILING AND FLOOR LEVELS;

REFERENCE 2022 CBC SECTION 718.

DIFFUSER AND SUPPLY AIR BOX WITH TWO #8 S.M.S.

FIREBLOCKING SHALL BE PROVIDED IN THE FOLLOWING LOCATIONS:

(SEE SHEET N1.0, SECTION 9C "INTERIOR AIR QUALITY CONTROL")

SEAL ALL SEAMS BETWEEN THE HVAC UNIT AND DUCTS.

2-HOUR OVERRIDE MINIMUM STATUS INDICATED LED'S.

DUCTWORK

HEAT PUMP: SINGLE PACKAGE WALL-MOUNTED AIR-TO-AIR ELECTRIC HEAT PUMP UNIT SHALL BE RATED IN ACCORDANCE

DEGREES F. WHEN THE OUTDOOR DRY BULB TEMPERATURE VARIES BETWEEN 100 DEGREES F. IN THE SUMMER

THE SYSTEM MUST MAINTAIN THE ABOVE TEMPERATURE WHEN THE DAMPER IS ADJUSTED TO USE APPROXIMATELY

DUCTWORK SHALL BE INSULATED WITH 1" THICK FIBERGLASS DUCT WRAP WITH VAPOR BARRIER. PROVIDE 1" DUCT

WITH A.R.I. STANDARD 240-77. MAXIMUM AC SIZE FOR THIS BUILDING WILL BE A 5-TON UNIT. ALL UNITS SHALL BE 230/208

VOLT, 1 PHASE SYSTEM, UL TESTED & APPROVED OR COMPARABLE, AND MEET CURRENT ENERGY STANDARDS.

A. CONSTRUCT ALL DUCTWORK OF GALVANIZED SHEET METAL IN ACCORDANCE WITH C.M.C., ASHRAE GUIDE

EQUIPMENT VOLUME, AND SMACNA LOW VELOCITY DUCT CONSTRUCTION MANUAL, LATEST EDITIONS. ALL

NON-METALLIC DUCTWORK OPTION: IN ACCESSIBLE CONCEALED PORTIONS OF DUCT SYSTEM, RIGID 1"

FIBERGLASS OR INSULATED FLEX-DUCT WITH VAPOR BARRIER MAY BE SUBSTITUTED FOR SHEET METAL

METAL. DUCTWORK AND REINFORCEMENT SHALL BE DESIGNED FOR 2" STATIC PRESSURE. REFERENCE

DUCTWORK. ALL DUCTWORK WITHIN 2'-0" OF THE HVAC UNIT AND ALL INTERFACE CONNECTIONS SHALL BE

BRANDS: OWENS-CORNING FIBERGLASS DUCTBOARD, 1" THICK, AND MICRO-AIRE TYPE 475. NON-METALLIC

DUCT INSTALLATION AND PLENUMS SHALL MEET THE REQUIREMENTS OF ENERGY CODE SECTION 120.4 AND

THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. (MINIMUM R=4.2) HORIZONTAL FLEX DUCT SHALL BE

SUPPORTED AT A MAXIMUM 4' INTERVALS, WITH HANGING STRAPS A MINIMUM 1-1/2" WIDE. DUCTS MUST BE

SIZES OF SUPPLY AND RETURN DUCTS SHALL BE SPECIFIED ON PLANS. HVAC CURB SUPPLY AND RETURN

FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5 FEET IN LENGTH AND SHALL NOT BE

AIR DUCT INSULATION AND LININGS SHALL COMPLY WITH FLAME SPREAD LESS THAN OR EQUAL TO 25, SMOKE

SUPPLY AIR DIFFUSERS SHALL BE 675 CFM MAXIMUM, 12" ROUND. 1" FIBERGLASS OR FLEXDUCT DUCTWORK

REGISTERS AND DIFFUSERS: PROVIDE THREE (MINIMUM) 4-WAY THROW AIR DIFFUSERS AS MANUFACTURED BY CARNES, TITUS, HART AND COOLEY, METALAIRE, SHOEMAKER, BARBER-COLEMAN OR KRUEGER COMMERCIAL

AIR CONDITIONING CONTROLS: PROVIDE ELECTRONIC PROGRAMMABLE THERMOSTAT. THERMOSTAT SHALL BE

PROGRAMMED WITH EXPECTED OCCUPIED TIMERS. AIR HANDLER FAN WILL BE PROGRAMMED TO RUN DURING ALL

C. 5 AND 2 WEEKDAY/WEEKEND PROGRAMMING DAYS WITH 4 SEPARATE TIME/TEMPERATURE SETTINGS FOR A

PROVIDE LOCKING CLEAR THERMOSTAT COVER WITH THERMOSTAT COVER WITH ACCESS HOLE FOR PROGRAM

OCCUPIED TIMES. PRE-OCCUPANCY PURGE SHALL BE PROGRAMMED ONE HOUR PRIOR TO THE MODULAR BUILDING

SPECIFICALLY DESIGNED TO PROVIDE AIR THERMAL COOLING SYSTEMS. 24"X8"X1" MICRO-AIRE TYPE #475 OWENS-CORNING, KNAUF, CERTAINTEED, OR EQUAL AND 90-B: UL #131 TEST, CLASS 1 RATING WITH "SMACNA".

USED IN LIEU OF RIGID ELBOWS OR FITTINGS. FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN

PULLED TIGHTS WITH A MAXIMUM SAG OF 1/2" PER FOOT OF HORIZONTAL RUN. DUCTS SHALL NOT BE KINKED

A. THE SYSTEM SHALL MAINTAIN AN AUTOMATICALLY CONTROLLED INDOOR CLASSROOM TEMPERATURE OF 78

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 02-122975 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 DATE: 03/12/2025



HMC Architects

916 368 7990 / www.hmcarchitects.com

DESCRIPTION

DATE

GENERAL NOTES

2022 CBC PRE-CHECK (PC) DOCUMENT

APPROVED

SS D FLS D ACS CG D

IV. OF THE STATE ARC

APP: 04-122050 PC

RAWN BY: AS NOTED MM/DD/YY ROJECT NO: XXXX-22

& SCHEDULES

I LLAUL NEUTULE U

3595001000

2101 CAPITOL AVENUE, SUITE 100 SACRAMENTO, CA 95816

KEYNOTES

12/11/2023 MANUFACTURER PROFESSIONAL OF R

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24' x 40' THRU 120' x 40'

STANDARD MODULAR BUILDING

(LOW SEISMIC)

PRE-CHECKED SET NAME

E SPECIFIC PROJECT NAME

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HEET TITLE: MECHANICAL NOTES

HEET NUMBER:

CLIMATE

ZONE(S)

HEATING VENTILATING AND AIR CONDITIONING (HVAC) continued

15. THE CALIFORNIA ENERGY CODE 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

16. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROL ACCEPTANCE TEST TECHNICIAN (ATT). MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021. ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.

17. A LISTING OF CERTIFIED ATT'S CAN BE FOUND AT: HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE.

THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF PROJECT INSPECTORS WILL BE COLLECTING THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

18. THERMOSTAT SHALL BE PROGRAMMED TO PREVENT SUPPLEMENTARY HEATER OPERATION WHEN THE HEATING LOAD CAN BE MET BY THE HEAT PUMP ALONE. THE CUT-ON TEMPERATURE FOR COMPRESSION HEATING MUST BE HIGHER THAN THE CUT-ON TEMPERATURE FOR SUPPLEMENTARY HEATING, AND THE CUT-OFF TEMPERATURE FOR COMPRESSION HEATING MUST BE HIGHER THAN THE CUT-OFF TEMPERATURE FOR SUPPLEMENTARY HEATING PER CEC 2022 SECTION 110.2(B).

HVAC NOTES (CONTINUATION)

BUILDING S

24'x40'

36'x40'

48'x40'

72'x40'

84'x40'

96'x40'

| FAN SYSTEMS | | | | | | | | | |
|-------------|-----------|--|--|--|--|--|--|--|--|
| SIZE | DESIGN OA | | | | | | | | |
| JIZE | | | | | | | | | |
| | 365 | | | | | | | | |
| | 547 | | | | | | | | |
| | 365 | | | | | | | | |
| | 456 | | | | | | | | |
| | 547 | | | | | | | | |
| | 365 | | | | | | | | |
| | 365 | | | | | | | | |
| | | | | | | | | | |

| _ | | | | | | | | | | | | |
|----------------|--------------|--------------------|----------|-------------------|------|------|--------------------|--|--|--|--|--|
| HVAC CFM CHART | | | | | | | | | | | | |
| | MODEL# | DESCRIPTION | MAX. CFM | UNIT WEIGHT (LB8) | EER | SEER | CLIMATE ZONE(S) | | | | | |
| | 50VT-C363TP | 3 TON HEAT PUMP | 1200 | 371 | 12.0 | 14.5 | 1-16 | | | | | |
| CARRIER ROOF | 50VT-C423TP | 31/2 ION HEAT PUMP | 1400 | 412 | 12.0 | 14.5 | 1-16 | | | | | |
| MOUNT | 50VT-C483TP | 4 TON HEAT PUMP | 1600 | 432 | 12.0 | 14.5 | 1-16 | | | | | |
| | 50\/T-C603TP | 12 TON HEAT PLIMP | 1750 | 462 | 12.0 | 14.2 | 16 | | | | | |

HVAC CFM CHART

4 TON HEAT PUMP

5 TON HEAT PUMP

HVAC CFM CHART

MAX. CFM

1143

DESCRIPTION

3 TON HEAT PUMP

3½ TON HEAT PUMP

4 TON HEAT PUMP

4½ TON HEAT PUMP

MODEL#

SYSTEM AIR

BARD WALL

MODEL#

MAX. CFM

500

(LBS)

EER COP

| HVAC CFM CHART | | | | | | | | | | | | | |
|----------------|--------------|------------------|----------|---------------|-----------------------|------|------|--------------------|--|--|--|--|--|
| | MODEL# | EL# DESCRIPTION | | MAX. CFM | UNIT WEIGHT (LBS) EER | | SEER | CLIMATE ZONE(S) | | | | | |
| | 25HCE436A003 | 3 TON HEAT PUMP | FX4DN037 | FX4DN037 1200 | | 11.5 | 14.0 | 1-16 | | | | | |
| CARRIER SPLIT | 25HCE442A003 | 3½-TON HEAT PUMP | FX4DN043 | 1400 | 157 | 11.5 | 14.0 | 1-16 | | | | | |
| DX SYSTEM | 25HCE448A003 | 4 TON HEAT PUMP | FX4DN049 | 1600 | 185 | 74.5 | 14.0 | 1-16 | | | | | |
| | 25HCE460A003 | 4½ TON HEAT PUMP | FX4DN061 | 2000 | 201 | 11.5 | 14.0 | 4-16 | | | | | |

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH ENERGY CODE.

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THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA. PROJECT INSPECTORS WILL BE COLLECTING THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

| HVAC SCHEDULE | | | | | | | | | | | | | | |
|--|------------------|-----------------|---------------------------|-------------------------|--|------------------|-----------------|---------------------------|-------------------------|--|------------------|-----------------|---------------------------|-------------------------|
| DUIL DING CIZE & CLIMATE | # OF HVAC | | | | DUIL DING CIZE & CLIMATE | # OF HVAC | | | | DUIL DING CIZE & CUMATE | # OF HVAC | | | |
| BUILDING SIZE & CLIMATE ZONE GROUP (ZONE) | 3½ TON (BARD) | 4 TON (BARD) | 4 TON (SYSTE M AIR) | 5 TON (SYTEM AIR) | BUILDING SIZE & CLIMATE ZONE GROUP (ZONE) | 3½ TON (BARD) | 4 TON (BARD) | 4 TON (SYSTE M AIR) | 5 TON (SYTEM AIR) | BUILDING SIZE & CLIMATE ZONE GROUP (ZONE) | 3½ TON (BARD) | 4 TON (BARD) | 4 TON (SYSTE M AIR) | 5 TON (SYTEM AIR) |
| 24'x40' GROUP A (1,16) | 1 | | | | 60'x40' GROUP A (1,16) | 2 | | | | 96'x40' GROUP A (1,16) | 4 | | | |
| 24'x40' GROUP B (2-5) | 1 | | | | 60'x40' GROUP B (2-5) | 2 | | | | 96'x40' GROUP B (2-5) | 4 | | | |
| 24'x40' GROUP C (6-13) | 1 | | | | 60'x40' GROUP C (6-13) | 2 | | | | 96'x40' GROUP C (6-13) | 4 | | | |
| 24'x40' GROUP D (14,15) | 1 | | | | 60'x40' GROUP D (14,15) | | 2 | | | 96'x40' GROUP D (14,15) | 4 | | | |
| 36'x40' GROUP A (1,16) | 1 | | | | 72'x40' GROUP A (1,16) | 2 | | | | 108'x40' GROUP A (1,16) | 3 | | | |
| 36'x40' GROUP B (2-5) | 1 | | | | 72'x40' GROUP B (2-5) | 2 | | | | 108'x40' GROUP B (2-5) | 3 | | | |
| 36'x40' GROUP C (6-13) | | | 1 | | 72'x40' GROUP C (6-13) | | | 2 | | 108'x40' GROUP C (6-13) | | | 3 | |
| 36'x40' GROUP D (14,15) | | | 1 | | 72'x40' GROUP D (14,15) | | | 2 | | 108'x40' GROUP D (14,15) | | | 3 | |
| 48'x40' GROUP A (1,16) | 2 | | | | 84'x40' GROUP A (1,16) | 2 | | | | 120'x40' GROUP A (1,16) | 5 | | | |
| 48'x40' GROUP B (2-5) | 2 | | | | 84'x40' GROUP B (2-5) | 2 | | | | 120'x40' GROUP B (2-5) | 5 | | | |
| 48'x40' GROUP C (6-13) | 2 | | | | 84'x40' GROUP C (6-13) | | | 2 | | 120'x40' GROUP C (6-13) | 5 | | | _ |
| 48'x40' GROUP D (14,15) | 2 | | | | 84'x40' GROUP D (14,15) | | | 2 | | 120'x40' GROUP D (14,15) | 5 | | | |

- LOW-PROBABILITY SYSTEM(S) ON PLAN PER CMC 1103.2 IN REGARDS TO REFRIGERANT.
- 2. REFRIGERANT 410B (WHERE APPLICABLE) AND COORESPONDING SAFETY GROUP ON PLAN (CMC 1103 AND TABLE 1102.3)

** SECURED w/ 22 GA WIRE @ 16" O.C. *** R-1 MAY BE ACHEIVED w/ POLYSTYRENE OR INSULATION TAPE APLLIED TO THE TOP FLANGE OF PURLINS, TYP.

ALL HVAC SYSTEMS SHALL HAVE A MANUAL OVERRIDE ACCESSIBLE TO THE OCCUPANTS THAT ALLOWS THEM TO TURN ON THE HVAC SYSTEM DURING NORMAL UNOCCUPIED TIMES. THIS CAN BE A MANUAL OVERRIDE FOR UP TO 4 HOURS, OCCUPANCY SENSOR, OR A 4 HOUR MANUALLY OPERATED TIMER.

MANUAL OVERRIDE CONTROLS ARE A MANDATORY MEASURE UNDER ENERGY CODE SECTION 120.2(e).

HVAC SCHEDULES

ADDITIONAL HVAC NOTES

ADDENDUM "A"

THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL, PER 2022 CEC SECTION INSTALLED FILTERS SHALL BE CLEARLY LABELED BY THE MANUFACTURER INCLUDING THE MERV RATING, PER 2022 CBC SECTION 5.504.5.3.1 ROOF MOUNTED HVAC

HVAC FILTER

SHEET NAME: MECHANICAL NOTES & SCHEDULES

ART FREILER ES - TK CLASSROOM

ART FREILER ELEMENTARY SCHOOL

2421 W LOWELL AVE

TRACY. CA 95377

PROJECT:

DATE: 04/03/24 CLIENT PROJ NO: 359500100

UPON SITE PLACEMENT OR SITE CONSTRUCTION, THE OPERATION AND MAINTENANCE DOCUMENTATION FOR ALL MECHANICAL AND LIGHTING SYSTEMS AND CONTROLS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR FOR

THERMOSTAT (BY OTHERS) WILL BE PROGRAMMED WHEN THE MODULAR BUILDING IS PLACED ON A SITE TO ENSURE THE MINIMUM AIR RATE WILL BE SUPPLIED TO THE SPACE AT ALL USUALLY OCCUPIED TIMES AND PROGRAMMED TO PROVIDE A PRE-OCCUPANCY PURGE ONE HOUR PRIOR TO THE MODULAR BUILDING BEING

HVAC CONTROLS

NORMALLY OCCUPIED PER ENERGY CODE 120.1(C)1.

THE PERMANENT MODULAR RELOCATABLE BUILDING AND DELIVERED TO THE OWNER.

HVAC NOTES

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 02-122975 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

DATE



HMC Architects

3595001000

2101 CAPITOL AVENUE, SUITE 100 SACRAMENTO, CA 95816

916 368 7990 / www.hmcarchitects.com

△ DESCRIPTION

KEYNOTES

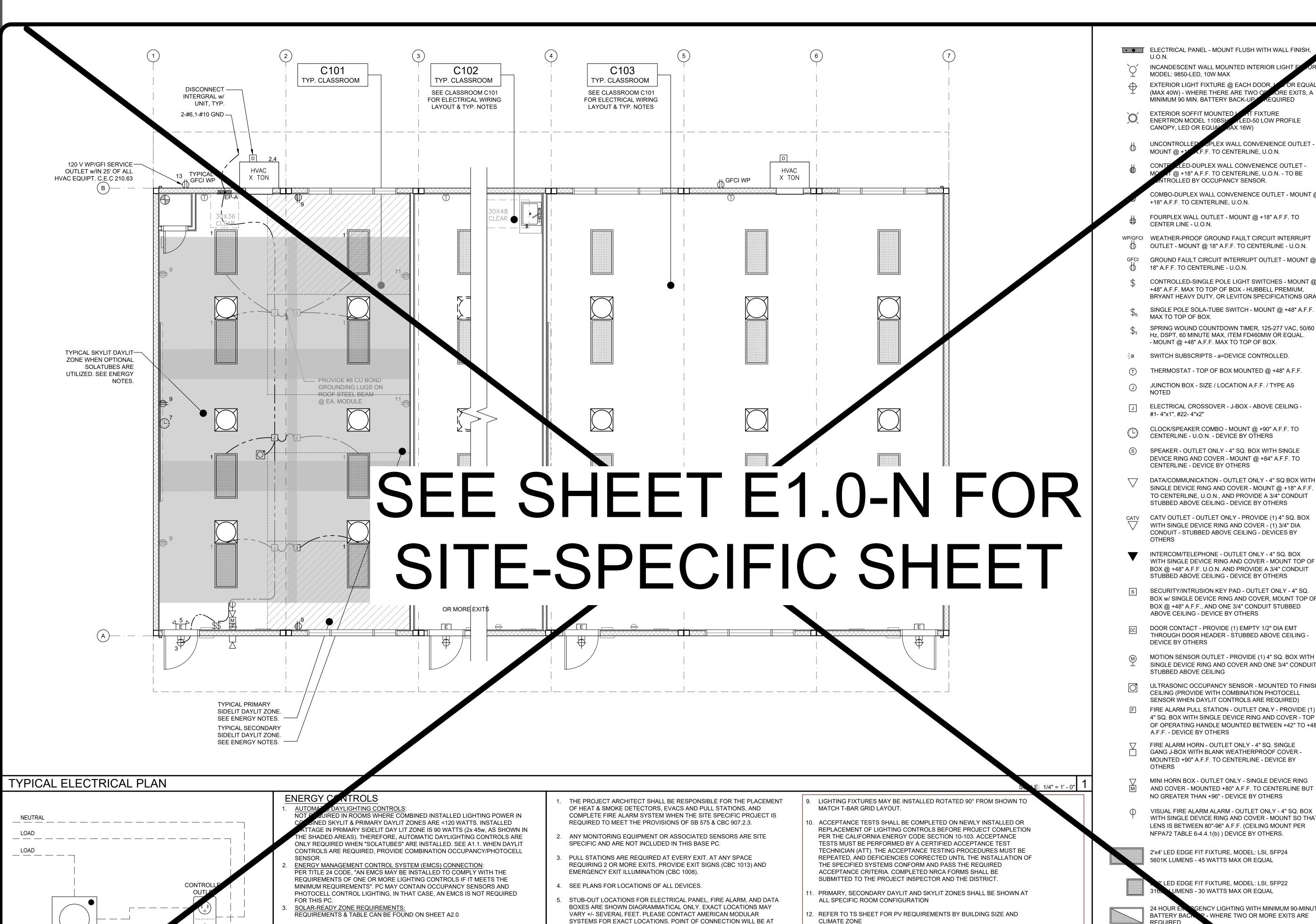
GENERAL NOTES

ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE **TRACY, CA 95377**

PROJECT: ART FREILER ES - TK CLASSROOM

SHEET NAME: TYPICAL ELECTRICAL PLAN

DATE: 04/03/24 CLIENT PROJ NO: 3595001000



FACE OF BUILDING.

REGULATIONS.

STUB-UP ALL FIRE ALARM JUNCTION BOXES TO ACCESSIBLE ATTIC

FIRE ALARM CONDUIT WITH ANY OTHER ELECTRICAL CONDUIT.

BY ULTRASONIC OCCUPANCY SENSOR: WATT STOPPER W-500A,

W-1000A, OR W-2000A (OR EQUAL) BASED ON THE ROOM SIZE, IN

FIXTURE MOUNTING SHALL COMPLY WITH CALIFORNIA SEISMIC

CONJUNCTION WITH BI-LEVEL SWITCHING.

SPACE WITH 1/2" MIN. GALV. THIN WALL TUBING (EMT), DO NOT CONNECT

THE LIGHTS FOR EACH ROOM OVER 250 SQ FT SHALL BE CONTROLLED

DEMAND RESPONSE CONTROLS ARE REQUIRED IN BUILDINGS LARGER

DEMAND RESPONSE CONTROLS AND EQUIPMENT SHALL BE CAPABLE OF

CONTROLS MUST INCLUDE THE SUBMITTAL OF FORM NRCC-ELC-O1-E TO

DEMAND RESPONSE CONTROLS, WHERE REQUIRED, ARE TO BE

RESPONSE AFTER RECEIVING A DEMAND SIGNAL.

RECEIVING AND AUTOMATICALLY RESPONDING TO AT LEAST ONE

SITE-SPECIFIC PROJECTS WHICH REQUIRE DEMAND RESPONSE

STANDARD-BASED MESSAGING PROTOCOL WHICH ENABLES DEMAND

THAN 10,000 S.F.

DSA (BY OTHERS).

GENERAL NOTES

PROVIDED BY OTHERS.

SUGGESTED CONTROLS DIAGRAM FOR TYPICAL DAYLIT ZONE:

NOTE: ANT MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC

ENERGY NOTES

TO ROOM

AND ARE NOT INCLUDED IN THE BASE PC.

UNCONTROLLED

OUTLET

ULTRASONIC CEILING

COMBINATION

SENSOR

S, LOBBY, AND

OCCUPANCY SENSOR OR

OCCUPANCY/PHOTOC

REQUIRED FOR

MEETING RO

PROGRAMMABLE SWITCH

- OCCUPANCY SENSOR

- PHOTOCELL SENSOR

- ROOM CONTROL (0-10V DIMMING)

GFCI GROUND FAULT CIRCUIT INTERRUPT OUTLET - MOUNT @ MS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGI I AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICA 18" A.F.F. TO CENTERLINE - U.O.N. AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTE COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE DNSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISH CONTROLLED-SINGLE POLE LIGHT SWITCHES - MOUNT @ +48" A.F.F. MAX TO TOP OF BOX - HUBBELL PREMIUM. APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTE NSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTIO BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE. ET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICA IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR SINGLE POLE SOLA-TUBE SWITCH - MOUNT @ +48" A.F.F. MAX TO TOP OF BOX. SPRING WOUND COUNTDOWN TIMER, 125-277 VAC, 50/60 RE-CHECKED SET NAME Hz, DSPT, 60 MINUTE MAX, ITEM FD460MW OR EQUAL. 24' x 40' THRU 120' x 40' - MOUNT @ +48" A.F.F. MAX TO TOP OF BOX. STANDARD MODULAR BUILDING SWITCH SUBSCRIPTS - a=DEVICE CONTROLLED. THERMOSTAT - TOP OF BOX MOUNTED @ +48" A.F.F. JUNCTION BOX - SIZE / LOCATION A.F.F. / TYPE AS ELECTRICAL CROSSOVER - J-BOX - ABOVE CEILING -#1- 4"x1", #22- 4"x2" SITE SPECIFIC PROJECT NAME CLOCK/SPEAKER COMBO - MOUNT @ +90" A.F.F. TO CENTERLINE - U.O.N. - DEVICE BY OTHERS SPEAKER - OUTLET ONLY - 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +84" A.F.F. TO CENTERLINE - DEVICE BY OTHERS DATA/COMMUNICATION - OUTLET ONLY - 4" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N., AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS CATV OUTLET - OUTLET ONLY - PROVIDE (1) 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - (1) 3/4" DIA CONDUIT - STUBBED ABOVE CEILING - DEVICES BY

INTERCOM/TELEPHONE - OUTLET ONLY - 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - MOUNT TOP OF BOX @ +48" A.F.F. U.O.N. AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS

SECURITY/INTRUSION KEY PAD - OUTLET ONLY - 4" SQ. BOX w/ SINGLE DEVICE RING AND COVER, MOUNT TOP OF

BOX @ +48" A.F.F., AND ONE 3/4" CONDUIT STUBBED

DOOR CONTACT - PROVIDE (1) EMPTY 1/2" DIA EMT THROUGH DOOR HEADER - STUBBED ABOVE CEILING -

MOTION SENSOR OUTLET - PROVIDE (1) 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER AND ONE 3/4" CONDUIT

ULTRASONIC OCCUPANCY SENSOR - MOUNTED TO FINISH CEILING (PROVIDE WITH COMBINATION PHOTOCELL SENSOR WHEN DAYLIT CONTROLS ARE REQUIRED)

4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - TOP

FIRE ALARM HORN - OUTLET ONLY - 4" SQ. SINGLE GANG J-BOX WITH BLANK WEATHERPROOF COVER -MOUNTED +90" A.F.F. TO CENTERLINE - DEVICE BY

OF OPERATING HANDLE MOUNTED BETWEEN +42" TO +48"

ABOVE CEILING - DEVICE BY OTHERS

DEVICE BY OTHERS

STUBBED ABOVE CEILING

A.F.F. - DEVICE BY OTHERS

ED-50 LOW PROFILE

PLEX WALL CONVENIENCE OUTLET -

F.F. TO CENTERLINE, U.O.N.

@ +18" A.F.F. TO CENTERLINE, U.O.N. - TO BE

COMBO-DUPLEX WALL CONVENIENCE OUTLET - MOUNT @

TROLLED BY OCCUPANCY SENSOR.

ED-DUPLEX WALL CONVENIENCE OUTLET

MODEL: 9850-LED, 10W MAX

EXTERIOR SOFFIT MOUNTED

ENERTRON MODEL 110BS

CANOPY, LED OR EQU

CENTER LINE - U.O.N.

MOUNT @ +1

EXTERIOR LIGHT FIXTURE @ EACH DOOR (MAX 40W) - WHERE THERE ARE TWO Q

MINIMUM 90 MIN. BATTERY BACK-UP

+18" A.F.F. TO CENTERLINE, U.O.N.

DIV. OF THE STATE ARCHITECT APP: 04-122050 PC SS D FLS D ACS D CG D 2022 CBC PRE-CHECK (PC) DOCUMENT MANUFACTURER PROFESSIONAL OF RECORD ON PC

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AA

AS NOTED

MM/DD/YY

TYPICAL

ELECTRICAL PLAN

XXXX-22

American Modular Systems

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MINI HORN BOX - OUTLET ONLY - SINGLE DEVICE RING AND COVER - MOUNTED +80" A.F.F. TO CENTERLINE BUT NO GREATER THAN +96" - DEVICE BY OTHERS VISUAL FIRE ALARM ALARM - OUTLET ONLY - 4" SQ. BOX

RAWN BY:

PROJECT NO:

SHEET TITLE:

SHEET NUMBER:

WITH SINGLE DEVICE RING AND COVER - MOUNT SO THAT LENS IS BETWEEN 80"-96" A.F.F. (CEILING MOUNT PER NFPA72 TABLE 6-4.4.1(b)) DEVICE BY OTHERS.

2'x4' LED EDGE FIT FIXTURE, MODEL: LSI, SFP24 5601K LUMENS - 45 WATTS MAX OR EQUAL LED EDGE FIT FIXTURE, MODEL: LSI, SFP22

24 HOUR EM REENCY LIGHTING WITH MINIMUM 90-MINUTE R - WHERE TWO OR MORE EXITS ARE BATTERY BAC REQUIRED

EMERGENCY EXIT LIGHT, WHERE THERE ARE TWO OR MORE EXITS, AN EXIT SIGN. TH INTEGRAL EMERGENCY LIGHTING W/MINIMUM 90-MINUN SATTERY BACK-UP IS

LUMENS - 30 WATTS MAX OR EQUAL

REQUIRED. ILLUMINATED EXIT LIGHT, - WHERE THE E MORE EXITS

EXTERIOR SOFFIT MOUNTED LIGHTING PER MODE WITH EMERGENCY 90 MIN. MINIMUM BATTERY BACK-UP, PROVIDE (1) BY THE STAIR

STANDARD ELECTRICAL SYMBOLS

PLEASE RECYCLE 🖧

- ANVIL FIG. 551 THREADED SIDE BEAM BRACKET W/(2) 1/4"x1" TEK SCREWS

 $-\frac{3}{8}$ "Ø ALL THREAD ROD @ 96" O.C. MAX

AND 24" MAX FROM ENDS PROVIDE MIN.

PER ICC ESR 1976

(2) PER 10' PIECE

— CABLE TRAY CABLOFIL CF

CABLE TRAY BY OTHERS,

WEIGHT OF CABLES &

CABLE TRAY = 5 LBS/FT

VOLTS:

75

180

LEG TOTALS 575 360

180

75 | 1 | x |

BUSS:

CABLE TRAY DETAIL

NOT USED

PANEL: A

OBJECT

DESCRIPTION

TROLLED

CL=3113.75+12455=15568.75

TOTAL WATTS=15568.75

INT. LIGHTS-LED

BLANK/SPARE

EXT. LIGHTS

105/300 EZ OR EQUAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 02-122975 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

DATE



HMC Architects

3595001000

2101 CAPITOL AVENUE, SUITE 100 SACRAMENTO, CA 95816

916 368 7990 / www.hmcarchitects.com

DESCRIPTION

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24' x 40' THRU 120' x 40'

STANDARD MODULAR BUILDING

APPROVED DIV. OF THE STATE ARCHITECT

SS 🛛 FLS 🗹 ACS 🖳 CG 🗹

APP: 04-122050 PC

2022 CBC PRE-CHECK (PC) DOCUMENT

MANUFACTURER PROFESSIONAL OF RECORD ON PC

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DETAILS

PRE-CHECKED SET NAME

SITE SPECIFIC PROJECT NAME

TAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEM

GENERAL NOTES

ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE

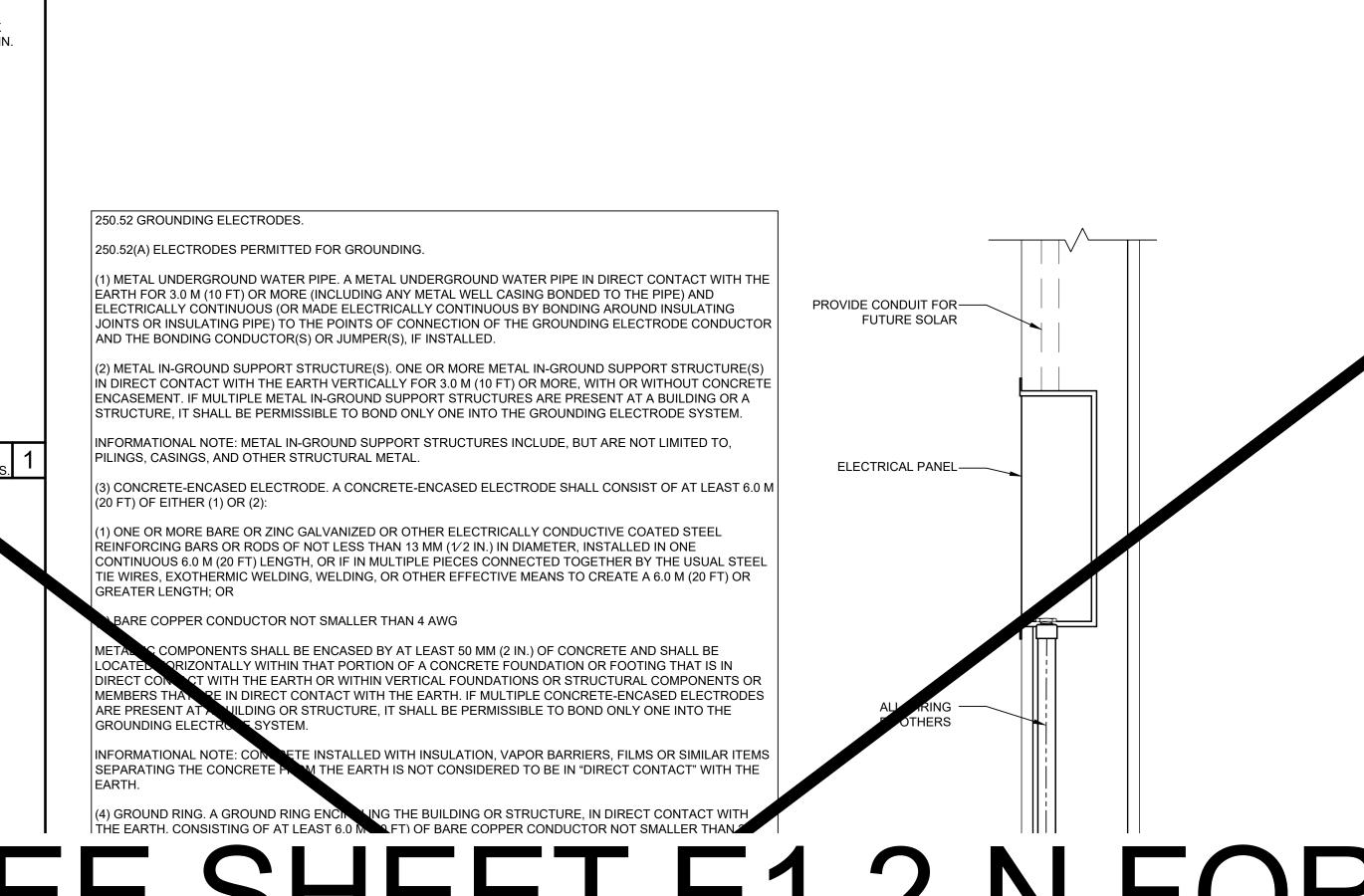
TRACY. CA 95377

PROJECT: ART FREILER ES - TK CLASSROOM

> SHEET NAME: **ELECTRICAL NOTES & DETAILS**

DATE: 04/03/24 CLIENT PROJ NO: 359500100

ADDENDUM "A"



SEE SHEET E1.2-N FOR SITE-SPECIFIC SHEET

FEED:

BOTTOM

5760

5760 | *5760* | LEG TOTALS

LCL OF PER

x / 5760

TOTAL AMPS: 64.87

(0) OTHER LOCAL METAL UNDERGROUND TO STRUCTURES. OTHER LOCAL METAL UNDERGROUND METAL SYSTEMS OR STRUCTURES SUCH AS AND SYSTEMS, UNDERGROUND TANKS, AND UNDERGROUND METAL TO A METAL WATER PIPE WELL CASINGS THAT ARE NOT BO GROUNDING ELECTRODES ND MATERIALS SHALL NOT BE USED AS GROUNDING ELECTRODES: THE FOLLOWING SYSTEM UND GAS PIPING SYSTEMS URES AND STRUCTURAL REINFORCING STEEL D IN 680.26(B)(1) AND (B)(2) ATIONAL NOTE: .104(B) FOR BONDING REQUIREMENTS OF GAS PIPING

ELECTRICAL PANEL CONNECTION DETAIL - UNDERFLOOR OPTION

LOCATION:

INTERIOR

100

BRKPOLE SIZE NO A B NO SIZE POLEBRK

LEG BALANCE = 1.7%

LOAD PANEL CALCULATIONS

* CKT|WIRE

#12 1 X 2 #6 1 60 5760

#6

SIZE OF CONDUCTORS SHALL COMPLY w/CEC.A

MOUNTING:

SURFACE

OBJECT

DESCRIPTION

4 TONA/CHVACUNIT

FUTURE SOLAR ELEC

BLANK/SPARE

BLANK/SPARE

x / 5760 4 TONA/CHVACUNIT

F.A.C.P.

SEPARATE CONDUCTORS FROM GROUND ROD TO AL PANEL & METAL BUILDING FRAME (CEC). TO THE DETAIL SHOWN ABOVE, BOND THE HE SOIL IF AVAILABLE (CEC).

3. ELECTRICAL BOND IN QULES TOGETHER W/#8 CU @ MODLINE. BY MANUFACTURER, CHECK RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS, INST AL ADDITIONAL GROUND RODS (CEC) AS REQUIRED. GROUNDING AL PER DSA IR E-1. INSPECTOR TO WITNESS GROU

FIRE ALARM DEDICATED CIRCUIT SHALL BE IDENTIFIED WITH A RED MARKED DISCONNECT WITH LOCK-ON CAPABILITY (NFPA 72 10.6.5.2)

ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE ENERGY SAVING LAMPS AND ROUND TO METAL WATER PIPE EMBEDDED AT LUMINARIES/BALLASTS SHALL BE CERTIFIED PER CALIFORNIA BUILDING CODE,

C.E.C.

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

FLUORESCENT LIGHT FIXTURE TYPE "A" SHALL BE CONTROLLED TO PROVIDE TWO LEVELS OF LIGHTING. SWITCH (SA) SHALL CONTROL THE TWO OUTER LAMPS AND SWITCH (SB) SHALL CONTROL THE TWO INNER LAMPS.

ELECTRICAL SERVICE DROP AND CONNECTIONS SUPPLIED BY OTHERS.

MANUFACTURER TO PROVIDE STUB-OUT FROM BACK OF ELECTRICAL PANEL THROUGH THE EXTERIOR WALL OR TO BELOW FLOOR FOR RECEIVING EITHER

UNDERGROUND OR OVERHEAD SERVICE & FITTING FOR GROUNDING CABLE.

ELECTRICAL PANEL BOARD SHALL BE RECESS MOUNTED INSIDE THE BUILDING, SIZED TO ACCOMMODATE ALL CONNECTED LOADS INCLUDING SPACES AS SHOWN. OVERCURRENT PROTECTIVE DEVICES IN THE PANEL BOARDS SHALL HAVE ADEQUATE SHORT CIRCUIT INTERRUPTING CAPACITY. ALL BUSES INCLUDING BUS

2X4 FLUORESCENT FIXTURES SHALL HAVE A STEEL FRAME, LENS SHALL BE HINGED AND LOCKED IN PLACE BY TWO LOCKING DEVICES. THE LENS DIFFUSERS SHALL BE KHS, INC. #KSH-2, CAROLITE, INC. #C-12 OR PLASKOLITE, INC. #PL21A. MINIMUM

SCENT BALLAST SHALL BE ENERGY SAVER WHILE MAINTAINING FULL LIGHT ASS "P" EQUIPPED WITH THERMAL PROTECTORS, GUARANTEED NRE FOR (2) YEARS AND BE REPLACEABLE FROM INSIDE THE

CLOCK - 12" DIAL CL

SHALL BE COPPER OR ALUMINUM.

FIRE ALARM SYSTEM

THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECT

FIRE ALARM SYSTEM, A

ET METAL, SQUARE OR RECTANGULAR WITH

X AT REAR OF BUILDING NEAR MAIN ELECTRICAL

KETED, METAL, WATERPROOF, FINISH COVERS AT EXTERIOR

LOOR FOR FUTURE CONNECTION.

FIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN

NCE WITH THE STATE FIRE MARSHALL'S REGULATIONS (CBC SEC. 907.2.3)

LL FINISH COVERS AT INTERIOR LOCATIONS.

HE LOCATION OF AUTOMATIC DETECTORS, MANUAL STATIONS AND OTHER FIRE

ALARM-INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL

ALARM EQUIPMENT AND DEVICES, AS SHOWN ON PLAN, ARE FOR REFERENCE ONLY

AND DO NOT CONSTITUTE SHOP DRAWINGS WHICH ARE REQUIRED FOR REVIEW AND

OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 dBA ABOVE

THE AVERAGE AMBIENT NOISE LEVELS OR 5dBA ABOVE THE MAXIMUM SOUND LEVEL

THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WHICH CAN NORMALLY BE

EXPECTED WHEN THE FACILITY, BUILDING, ROOM, OR AREA IS FUNCTIONING UNDER

NORMAL OPERATING OR WORKING CONDITIONS (NFPA 72, SEC. 18.4.1).

MARSHALL APPROVED AND LISTED (NFPA 72, SEC. 18.5.3).

HAVING A DURATION OF 60 SECONDS, WHICHEVER IS GREATER, MEASURED 5' ABOVE

THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED.

FLASHES PER SECOND (2 HZ), NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ).

FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING TWO

STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE

AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA

72 CHAPTER 26. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF

FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM

RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 15db OVER AMBIENT

NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY

AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER. IF TESTING

SEE SHEET M1.0 FOR ALL

NOTES.

GROUNDING ELECTRODE CONDUCTOR SIZED PER CEC.

PROVIDE BONDS TO BLDG. STEEL & PANEL (#8 CU)

3. PANEL TO LISTED FOR USE AS SERVICE EQUIPMENT.

BRACING AND ANCHORAGE

ALL PANELS, SWITCHES, DISCONNECTS, BREAKERS, METERS, AND OTHER

PROVIDE SUFFICIENT LENGTH OF CONDUIT TO PERMIT DIFFERENTIAL

ELECTRICAL ELEMENTS SHALL BE PLACED ABOVE THE ELEVATION REQUIRED BY

WHERE FLEXIBLE CONDUIT IS PASSING BETWEEN BUILDING SEPARATION JOINTS,

DISPLACEMENTS BETWEEN BUILDINGS IN COMPLIANCE WITH ASCE 7 SECTION

13.6.9 & DSA IR PC-2 SECTION 1.18. ADDITIONAL CONDUIT & JOINT DETAIL SHALL BE

HALL BE MADE IN THE PRESENCE OF

CALIFORNIA FIRE CODE AND THE CALIFORNIA BUILDING CODE.

INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE

PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA ST

FOR EACH COMPONENT OF THE SYSTEM, HAVE BEEJ

UPON COMPLETION OF THE INSTALLATION OF

SATISFACTORY TEST OF THE ENTIRE SYST

HE 2022 EDITION OF NFPA 72.

THE ENFORCING AGENCY.

JUNCTION BOXES - GALVANIZED

BLANK COVERS. LOCATE ON

PANEL @ +18" ABOVE FIN

THE ENFORCING AGENCY.

ASCE 24-14, SECTION 7.2.

PROVIDED BY OTHERS.

FIXTURE NOTES:

COVERS - INSTAL

LOCATIONS. IN

A. CLOCK SHALL BE CALERAL ELECTRIC MODEL 2912 129V 60 CYCLE B. CLOCK OUTLET SHALL EBRYANT #2828 OR EQUAL WITH SEPARABLE HANGING CLIP & APP'D R. SPT. THE H.V.A.C. UNIT FEEDER CIRCUIT - PANEL CIRCUIT BREAKER, FEEDER WITE, UNIT DISCONNECT AND FUSES (WHERE USED) - IS TO BE COORDINATED THE NAME PLATE DATA AT THE TIME OF MANUFACTURE. H.V.A.C. UNITS H. YING KVA RATINGS LARGER THAN THAT INDICATED ON THIS PANEL SCHEDULE NOT BE ALLOWED TO BE

INSTALLED ON THIS BUILDING. LATION, CALCULATIONS IF 60 DEGREES WIRE IS TO BE USED IN THIS IN DEMONSTRATING AMPACITY SHALL BE PROVIDED

ON CLOCK OUTLET. **ELECTRICAL NOTES &** SHEET NUMBER:

E1.2

GENERAL NOTES

DRAWN BY:

PROJECT NO:

AA

AS NOTED

MM/DD/YY

XXXX-22

P1.0
ADDENDUM "A"

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 02-122975 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

DATE



HMC Architects

3595001000

2101 CAPITOL AVENUE, SUITE 100 SACRAMENTO, CA 95816 916 368 7990 / www.hmcarchitects.com

KEYNOTES

GENERAL NOTES

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STANDARD MODULAR BUILDING

DRAWN BY:

AS NOTED MM/DD/YY PROJECT NO: XXXX-22

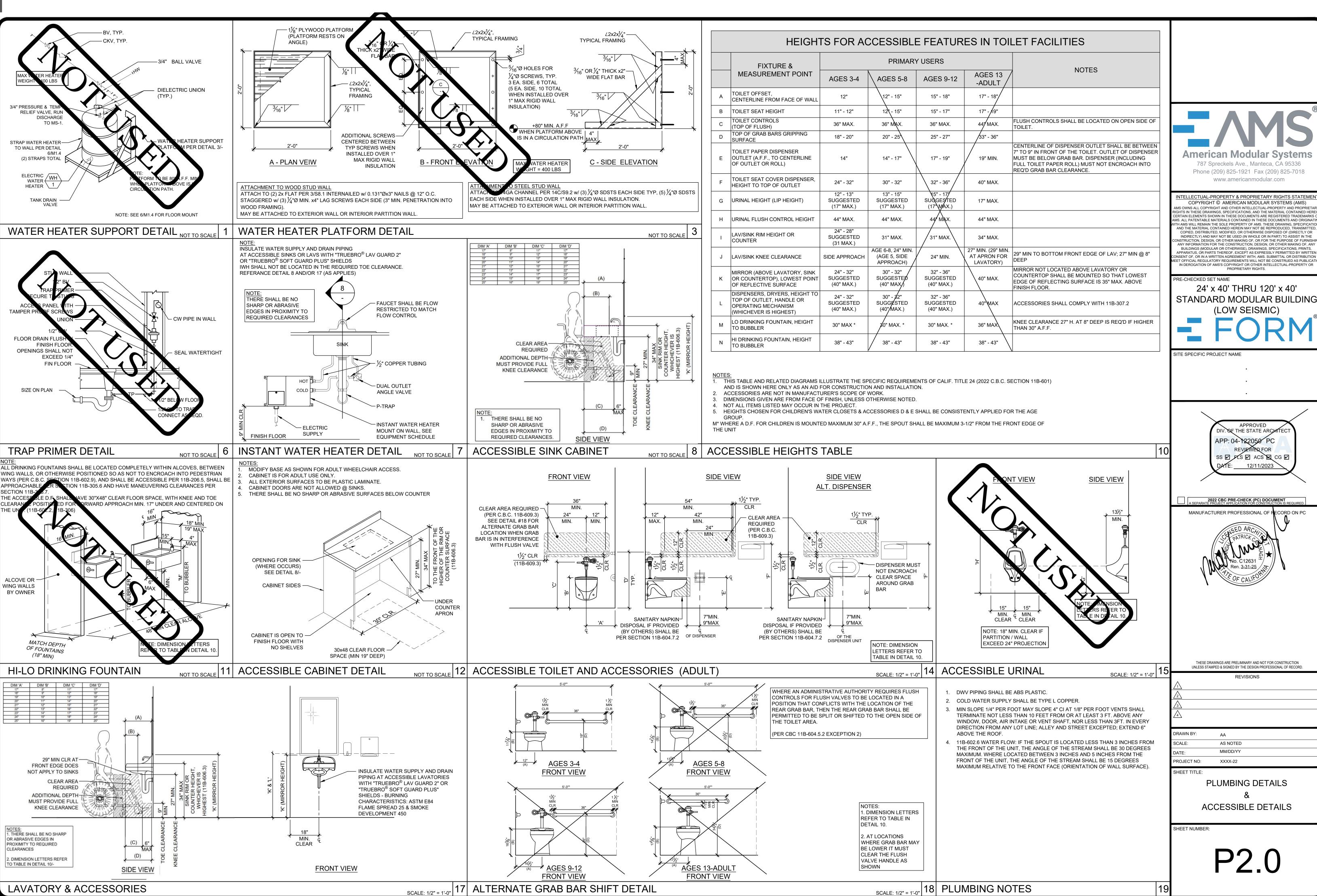
ART FREILER ELEMENTARY SCHOOL 2421 W LOWELL AVE

TRACY, CA 95377

PROJECT: ART FREILER ES - TK CLASSROOM

PLUMBING DETAILS & ACCESSIBLE DETAILS

CLIENT PROJ NO: 359500100 DATE: 04/03/24



DIV. OF THE STATE ARCHITEC SS 🗹 FLS 🗹 ACS 🗹

PLEASE RECYCLE