ROSAMOND HIGH EARLY COLLEGE CAMPUS
DANCE ROOM & WEIGHT ROOM MODERNIZATION

SOUTHERN KERN UNIFIED SCHOOL DISTRICT
2925 ROSAMOND BLVD., ROSAMOND CA 93560

GENERAL NOTES

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING AND PROPOSED CONSTRUCTION, PIPING, CONDUITS, CLEAN-OUTS, PULL BOXES, ETC. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DISTRICT AND ARCHITECT PRIOR TO COMMENCING WORK.
2. CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL GRADES ELEVATIONS, DIMENSIONS, AND CONDITIONS OF INSTALLATION PRIOR TO PROVIDING BID. ANY DISCREPANCIES DISCOVERED BY THE CONTRACTOR DURING THE ABOVE INVESTIGATIONS SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT. THE CONTRACTOR BY MEANS OF OFFERING A BID SHALL THEREBY CERTIFY THAT THE ABOVE STATED REQUIREMENTS HAVE BEEN MET.
3. GENERAL CONTRACTOR SHALL INCLUDE ALL LABOR, MATERIAL, EQUIPMENT, AND TRANSPORTATION NECESSARY FOR THE COMPLETE AND PROPER EXECUTION OF THE WORK.
4. THE ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE ARCHITECT AND / OR STRUCTURAL ENGINEER.
5. ALL WORK SHALL CONFORM TO THE "APPLICABLE CODES" AS LISTED HEREON.
6. CONTRACTOR SHALL REMOVE FROM SITE AND DISPOSE OF IN A LEGAL MANNER ALL EXCESS DIRT / SOIL AND DEBRIS RESULTANT OF THE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT.
7. CONTRACTOR SHALL BE REQUIRED TO OBTAIN ALL NECESSARY PERMITS AND APPROVALS FOR ALL WORK THAT OCCURS IN ANY PUBLIC RIGHT-OF-WAY AND / OR EASEMENT. FEES FOR REQUIRED PERMITS SHALL BE PAID FOR DIRECTLY BY CONTRACTOR AND SHALL BE REIMBURSED BY THE DISTRICT 1:1.
8. PROPERLY REMOVE ALL DEMOLISHED ITEMS AND MATERIALS FROM THE SITE AND DISPOSE OF ALL IN A LEGAL MANNER.
9. REPAIR OR REPLACE EXISTING WALKS, UTILITY LINES, LANDSCAPING, ETC. THAT ARE DAMAGED DURING CONSTRUCTION. PROTECT ALL EXISTING CONSTRUCTION DESIGNATED TO REMAIN.
10. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-338 PART 1, TITLE 24, CCR.
11. A DSA CERTIFIED CLASS 3 PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN THE SECTION 4-342 PART 1, TITLE 24, CCR.
12. D.S.A. ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED AND PAID FOR BY THE DISTRICT SHALL CONDUCT ALL REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
13. CONTRACTOR SHALL NOTIFY DISTRICT AND ARCHITECT IN WRITING UPON COMPLETION OF SITE PREPARATION.
14. ASSUMED SOIL BEARING CAPACITY PER SOILS REPORT.
15. PATCH AND REPAIR ALL SURFACES AFFECTED BY CONTRACT WORK AND BY SELECTIVE DEMOLITION TO A "LIKE NEW" CONDITION OR TO MATCH EXISTING ADJACENT FINISHES.
16. FIRE SAFETY DURING CONSTRUCTION, ALTERATION OR DEMOLITION SHALL BE IN ACCORDANCE WITH 2022 CFC CHAPTER 7, 11 AND 33.
17. ALL CONTRACTORS ARE ADVISED THAT CERTAIN PORTIONS OF THE WORK MAY NOT BE EASY AND MAY EXCEED THE ASSUMED STANDARD OF THE INDUSTRY, INCLUDING MEANS AND METHOD, OPERATIONAL STAGING, SCHEDULING AND COORDINATION OF WORK, AS WELL AS TIME AND DURATION OF ACTIVITIES NECESSARY TO SATISFACTORILY COMPLETE THE PROJECT IN ACCORDANCE WITH THIS CONTRACT. CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, MATERIALS AND OPERATIONAL SUPPORT NECESSARY TO COMPLETE THE PROJECT AS REQUIRED UNDER THIS CONTRACT.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WATER NECESSARY FOR CONSTRUCTION. WATER CAN BE MADE AVAILABLE ON-SITE VIA EXISTING HYDRANT, AND SHALL BE PROPERLY METERED THROUGH LOCAL WATER AGENCY.
19. CONTRACTOR MAY ONLY STAGE AND PERFORM WORK IN AREAS SPECIFICALLY IDENTIFIED FOR THIS CONTRACT. ALL WORK REQUIRED TO BE PERFORMED OUTSIDE OF THE DESIGNATED AREAS SHALL REQUIRE MONITORING BY ASSIGNED DISTRICT STAFF OR SHALL BE PERFORMED DURING NON-SCHOOL HOURS. ALL REQUESTS FOR MONITORED WORK SHALL BE MADE IN WRITING 48 HOURS IN ADVANCE BY GENERAL CONTRACTOR AND SCHEDULING SHALL BE SUBJECT TO APPROVAL BY DISTRICT.
20. CONSTRUCTION AREA OVERLAPS ACTIVE SERVICE AREAS NECESSARY FOR THE NORMAL DAILY OPERATION OF THE SCHOOL. CONTRACTOR SHALL AT ALL TIMES MAINTAIN AND ALLOW ACCESS ON SITE FOR EMERGENCY VEHICLES, TRASH COLLECTION, LANDSCAPE, GENERAL SCHOOL MAINTENANCE AND FOOD SERVICE DELIVERY. CONTRACTOR SHALL COORDINATE CLOSELY WITH DISTRICT FOR ALL NECESSARY ACCESS.
21. CONTRACTOR SHALL PROVIDE AND MAINTAIN FOR THE DURATION OF THE CONTRACT OPAQUE VINYL SCREENS (TARP OR SIMILAR) PROPERLY SECURED TO ALL TEMPORARY CONSTRUCTION FENCING AND GATES AS WELL AS ALL EXISTING FENCING THAT DEFINES A PERIMETER OF ANY DESIGNATED CONSTRUCTION AREA. SCREENING SHALL BE MINIMUM 6'-0" HIGH AND SHALL BE BLACK, GREEN OR TAN IN COLOR.
22. DUE TO THE ON-GOING OPERATION OF THE ACTIVE SCHOOL SITE DURING CONSTRUCTION, AS WELL AS THE UNIQUE CONSTRAINTS OF THE CONSTRUCTION AREA, CONTRACTOR SHALL BE AWARE THAT THE VEHICULAR DRIVES, ACCESS LANES AND PARKING SHALL BE SHARED AND SHALL NOT SCHEDULE ANY DELIVERIES AS WELL AS SUSPEND CONSTRUCTION TRAFFIC ENTERING AND EXISTING PREMISES DURING THE PERIODS REQUIRED FOR STUDENT DROP-OFF AND PICK-UP. CONTRACTOR SHALL COORDINATE WITH DISTRICT FOR ALL TIME OFF OPERATION FOR THE SITE.
23. FOR THE DURATION OF THE CONTRACT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR STRICT COMPLIANCE WITH LOCAL AGENCY HAVING JURISDICTION FOR ALL, FUGITIVE DUST AND SHALL BE RESPONSIBLE FOR ALL PENALTIES, FINES, ETC. IF THE PROJECT SHOULD BE CITED FOR VIOLATIONS.
24. DUE TO THE SITE CONSTRAINTS OF THE ACTIVE SCHOOL SITE, THE CONTRACTOR MAY BE REQUIRED TO STAGE IN VARIOUS AVAILABLE AREAS ON SITE AND MAY BE REQUIRED TO MOVE OR RELOCATE STAGING DURING THE COURSE OF CONSTRUCTION IN ORDER TO ACCOMMODATE CONSTRUCTION AND SCHEDULE. CONTRACTOR SHALL FACTOR IN ALL NECESSARY MEASURES TO ACCOMMODATE THE TIMELY COMPLETION OF THIS CONTRACT.
25. CONTRACTOR SHALL NOT INTERRUPT ANY UTILITY SERVICE TO ACTIVE SCHOOL SITE WITHOUT EXPRESSED PERMISSION AND PRIOR SCHEDULING WITH DISTRICT.
26. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CONTRACTOR SUBMITTALS OF DOCUMENTS TO THE DSA BOX.
27. CONTRACTOR MAY UTILIZE EXISTING ELECTRICAL SERVICE IN YARD FOR TEMPORARY POWER. ALL TEMPORARY POWER INSTALLATION SHALL ADHERE TO APPLICABLE CODES.
28. ALL WORK SHALL COMPLY WITH TITLE24, PARTS 1 THROUGH 6, AND 8 THROUGH 11.
29. ALL COPIES OF TITLE 24, PARTS 1 THROUGH 5 SHALL BE KEPT ON SITE DURING CONSTRUCTION.
30. ALL ADDENDA MUST BE SIGNED BY THE ARCHITECT OR ENGINEER IN GENERAL RESPONSIBLE CHARGE AND APPROVED BY DSA PER SECTION 4-338, PART 1, TITLE 24.
31. ALL SUBSTITUTION AFFECTING DSA REGULATED ITEMS SHALL BE CONSIDERED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDA.
32. ALL WORK SHALL CONFORM TO 2022, CALIFORNIA CODE OF REGULATIONS (CCR).
33. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

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, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK. REFERENCE: SECTION 4-317 (C), CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)

APPLICABLE CODES

Part 1	2022 California Building Standards Administrative Code, Title 24 C.C.R.
Part 2	2022 California Building Code, Title 24 C.C.R. (2021 International Building Code of the International Code Council, with California Amendments)
Part 3	2022 California Electrical Code, Title 24 C.C.R. (2020 National Electrical Code of the National Fire Protection Association, NFPA)
Part 4	2022 California Mechanical Code, Title 24 C.C.R. (2021 Uniform Mechanical Code of the International Association of Plumbing and
Part 5	2022 California Plumbing Code, Title 24 C.C.R. (2021 Uniform Plumbing Code of the International Association of Plumbing and Mechanical Officials, IAPMO)
Part 6	2022 California Energy Code, Title 24 C.C.R.
Part 8	2022 California Historical Building Code, Title 24 C.C.R.
Part 9	2022 California Fire Code, Title 24 C.C.R. (2021 International Fire Code of the International Code Council)
Part 10	2022 California Existing Building Code, Title 24 C.C.R. (2021 International Existing Building Code of the International Code Council, with amendments)
Part 11	2022 California Green Building Standards Code (CALGreen Code), Title 24 C.C.R.
Part 12	2022 California Referenced Standards Code, Title 24 C.C.R.

PARTIAL LIST OF APPLICABLE STANDARDS :

2022 California Building Code (for SFM) Referenced Standards Chapter 35 and CFC Chapter 80

PARTIAL LIST OF APPLICABLE STANDARDS :

NFPA 13	Standard for the Installation of Sprinkler Systems (CA Amended)	2022 Edition
NFPA 14	Standard for the Installation of Standpipe and Hose Systems (CA Amended)	2019 Edition
NFPA 17	Standard for Dry Chemical Extinguishing Systems	2021 Edition
NFPA 17A	Standard for Wet Chemical Extinguishing Systems	2021 Edition
NFPA 20	Standard for the Installation of Stationary Pumps for Fire Protection	2019 Edition
NFPA 22	Standard for Water Tanks for Private Fire Protection	2023 Edition
NFPA 24	Standard for the Installation of Private Fire Service Mains and Their Appurtenances (CA Amended)	2022 Edition
NFPA 72	National Fire Alarm and Signaling Code (CA Amended)	2022 Edition
NFPA 80	Standard for Fire Doors and Other Opening Protectives	2019 Edition
NFPA 253	Critical Radiant Flux of Floor Covering Systems	2019 Edition
NFPA 2001	Standard on Clean Agent Fire Extinguishing Systems (CA Amended)	2018 Edition

BIDDING NOTES

PRE-BID JOB WALK :

MANDATORY PRE-BID JOB WALK WILL BE HELD ON DATE AND TIME STATED IN "NOTICE TO CONTRACTOR" AT THE PROJECT SITE. ALL PROSPECTIVE BIDDERS ARE ADMONISH TO ATTEND.

FINGERPRINTING :

FINGERPRINTING AND BACKGROUND CHECKS IN ACCORDANCE WITH CURRENT LAWS AND REGULATIONS SHALL BE REQUIRED FOR ALL WORKERS WHO WILL BE PERFORMING WORK OUTSIDE OF THE ESTABLISHED CONSTRUCTION BARRICADES (MINIMUM 6' HIGH FENCE) DURING HOURS THAT THE ADJACENT CAMPUSES ARE OCCUPIED SIMULTANEOUSLY BY THE STUDENTS. ANY WORKER FOUND TO BE IN VIOLATION OF THESE REQUIREMENTS WILL BE ASKED TO LEAVE THE PROJECT SITE UNTIL THE APPROPRIATE DOCUMENTATION IS PROVIDED.

QUESTIONS DURING BID :

ALL QUESTIONS SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT USING THE ATTACHED "BID R.F.I." FORM. ALL "BIDDING R.F.I.'S" SHALL BE SUBMITTED NO LATER THAN FIVE (5) CONSECUTIVE CALENDAR DAYS PRIOR TO SCHEDULED BID OPENING.

DEFERRED SUBMITTALS :

NO DEFERRED SUBMITTALS FOR THIS PROJECT.

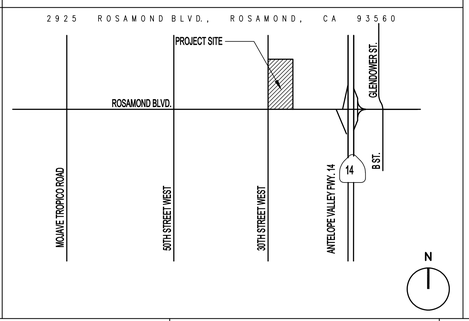
SCOPE OF WORK

MODERNIZATION OF DANCE ROOM & WEIGHT ROOM IN THE EXISTING GYMNASIUM THAT WILL INCLUDE THE FOLLOWING SCOPE OF WORK:

1. DEMOLITION OF EXISTING BOYS AND GIRLS LOCKER ROOM AREA, SHOWERS AND RESTROOMS, BOYS AND GIRLS COACH AND STORAGE ROOMS.
2. DEMOLITION OF EXISTING EQUIPMENT IN BOILER ROOM WHICH WILL INCLUDE STORAGE TANK, WATER HEATER AND ALL COMPONENTS ASSOCIATED WITH THESE EQUIPMENT.
3. REPLACE GIRLS LOCKER ROOM WITH A NEW DANCE ROOM, CHANGING ROOM, ACCESSIBLE RESTROOM AND STORAGE ROOM.
4. REPLACE BOYS LOCKER ROOM WITH A NEW WEIGHT ROOM AND ACCESSIBLE RESTROOM.
5. UPGRADE FIRE ALARM FOR THE NEW DANCE ROOM AND WEIGHT ROOM ONLY.
6. ADDITION OF NEW HVAC UNITS FOR THE DANCE ROOM AND WEIGHT ROOM ONLY.
7. STRUCTURAL ANCHORAGE OF NEW EQUIPMENT.
8. REMOVAL AND REPLACEMENT OF EXISTING AREAS OF SLAB ON GRADE DUE TO FLOOR DRAINS THROUGHOUT THE LOCKER AREAS
9. VOLUNTARY IMPROVEMENT OF THE EXISTING CONCRETE TILT-UP WALL AND OUT OF PLANE ANCHORAGE TO THE EXISTING ROOF DIAPHRAGM.

VICINITY MAP

2925 ROSAMOND BLVD., ROSAMOND, CA 93560



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(TOTAL NUMBER OF SHEETS = 48)

MECHANICAL ENGINEER
BASKIN MECHANICAL ENGINEERS
MARK BASKIN
175 Fulton Street
Fresno, CA 93721
TEL: (559) 237-0376

ELECTRICAL ENGINEER
JMPE
John Maloney
156 W. Alamar Ave., Suite B
Santa Barbara, CA 93105
TEL: (805) 569-9216
Maloney@jmpe.net

STRUCTURAL ENGINEER
RGSE, INC.
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Simi Valley, CA 93065
TEL: (805) 522-3379
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OWNER
SOUTHERN KERN UNIFIED SCHOOL DISTRICT
Barbara Gaines
2601 Rosamond Blvd.
Rosamond, CA 93560
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AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125472 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/30/2026

FLEWELLING & MOODY
architecture planning interiors

HEADQUARTERS OFFICE:
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An Employee Owned Corporation

ARCHITECT

LICENSED ARCHITECT
C-26053
Ren. Date 08/31/2027
STATE OF CALIFORNIA

CONSULTANT

Drawn by -
Checked by -

Revisions

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH EARLY COLLEGE CAMPUS
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

TITLE SHEET

Job No. 3139
Date 6.25.2024
A0.01

CAL GREEN MANDATORY MEASURES

5.106.8 Light pollution reduction.
Outdoor lighting systems shall be designed and installed to comply with the following:
1. The minimum requirements in the California Energy Code for Lighting Zones 1-4 as defined in Chapter 10 of the California Administrative Code; and
2. Backlight, Uplight and Glare (BUG) ratings as defined in IESNA TM-15-11; and
3. Allowable BUG ratings not exceeding those shown in Table 5.106.8, or
4. Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions:
1. Luminaires that qualify as exceptions in Section 147 of the California Energy Code
2. Emergency lighting.

5.106.10 Grading and paving. Civil DWGs. C3.01 thru C3.02 (Site)
Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:
1. Swales
2. Water collection and disposal systems
3. French drains
4. Water retention gardens
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge

DIVISION 5.2 - ENERGY EFFICIENCY
GENERAL
5.201.1 California Energy Code.
For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory standards.

Note: It is the intent of this code to encourage building to achieve exemplary performance in the area of energy efficiency. For the purposes of energy efficiency standards, the California Energy Commission believes specifically, a green building should achieve at least a 15 percent reduction in energy usage when compared to the State's mandatory energy efficiency standards.

DIVISION 5.3 - WATER EFFICIENCY AND CONSERVATION
INDOOR WATER USE
5.303.2 Twenty percent (20%) savings.
A schedule of plumbing fixtures and fixture fittings that will reduce the overall use of potable water within the building by 20 percent shall be provided. The reduction shall be based on the maximum allowable water use per plumbing fixture and fittings as required by the California Building Standards Code. The 20 percent reduction in potable water use shall be demonstrated by one of the following methods:
1. Prescriptive method. Each plumbing fixture and fitting shall not exceed the maximum flow rate at ≥ 20 percent reduction as specified in Table 5.303.2.3, or
2. Performance method. A calculation demonstrating a 20% reduction in the building "water use baseline" as established in Table 5.303.2.2 shall be provided.

Table 5.303.2.2

5.303.4 Wastewater reduction. P1.0H-R Plumbing DWGs.
Each building shall reduce by 20 percent wastewater by one of the following methods:
1. The installation of water-conserving fixtures (water closets, urinals) meeting the criteria established in Section 5.303.2

5.303.6 Plumbing fixtures and fittings. P1.0H-R Plumbing DWGs.-AMS MODULAR DWGs
Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall meet the standards referenced in Table 5.503.6.

WATER RESISTANCE AND MOISTURE MANAGEMENT
5.407.1 Weather protection.
Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1403.2 (Weather Protection) and California Energy Code Section 150 (Mandatory Features and Devices), manufacturer's installation instructions, or local ordinance, whichever is more stringent.
5.407.2 Moisture control.
Employ moisture control measures by the following methods.
5.407.2.1 Sprinklers.
Design and maintain landscape irrigation systems to prevent spray on structures.
5.407.2.2 Entries and openings.
Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings.

CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING
5.408.1 Construction waste management.
Recycle and/or salvage for reuse a minimum of 50 percent of the nonhazardous construction waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.
5.408.1.1 Construction waste management plan.
Where a local jurisdiction does not have a construction and demolition waste management ordinance that is more stringent, submit a construction waste management plant that
1. Identifies the construction waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Determines if construction waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction waste material collected will be taken.
4. Specifies that the amount of construction waste materials diverted shall be calculated by weight or volume, but not by both.

5.408.1.2 Waste management company.
Utilize a waste management company that can provide verifiable documentation that the percentage of construction waste material diverted from the landfill complies with this section.
5.408.1.3 Waste stream reduction alternative.
The combined weight of new construction disposal that does not exceed 2 lbs./sq.ft. of building area may be deemed to meet the 50 percent minimum requirement as approved by the enforcing agency.
5.408.2. Isolated jobsites.
The enforcing agency may make exceptions to the requirements of this section when jobsites are located in areas beyond the haul boundaries of the diversion facility.

BUILDING MAINTENANCE AND OPERATION
5.410.1 Recycling by occupants.
Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics and metals.
5.504.3 Covering of duct openings and protection of mechanical equipment during construction.
At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.
5.504.4 Finish material pollutant control:
5.504.4.1 Adhesives, sealants, and caulks.
Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards.
1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers, and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene, and trichloroethylene), except for aerosol products as specified in Subsection 2, below.
2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT
TABLE 5.504.4.2 - SEALANT VOC LIMIT

5.504.4.3 Paints and coatings.
Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3, shall be determined by classifying the coating as a Flat, Nonflat, or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36, and 4.37 of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat, or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.
5.504.4.3.1 Aerosol paints and coatings.
Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.
TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS
5.504.4.4 Carpet systems.
All carpet installed in the building interior shall meet the testing and product requirements of one of the following:
1. Carpet and Rug Institute's Green Label Plus Program.
2. California Department of Public Health Standard Method for the Testing and Evaluation Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version1.1, February 2010 (also known as Specification 01350)
3. NSF/ANSi 140 at the Gold level or higher.
4. Scientific Certifications Systems Sustainable Choice.

5.504.4.4.1 Carpet cushion.
All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program.
5.504.4.4.2 Carpet adhesive.
All carpet adhesive shall meet the requirements of Table 5.504.4.1.
5.504.4.5 Composite wood products.
Hardwood plywood, particleboard, and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seq.), by or before the dates specified in those sections, as shown in Table 5.504.4.5
5.504.4.6 Resilient flooring systems (50%).
For 50% of floor area receiving resilient flooring, install resilient flooring complying with the VOC-emission limits defined in the2009 Collaborative for High Performance Schools (CHPS) criteria and listed on its High Performance Products Database; products complaint with CHPS criteria certified under the Greenguard Children & Schools program; certified under the Resilient Floor Covering Institute (RFCI) FloorScore program; or meet California Department of Public Health 2010 Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (also known as Specification 01350.)
5.504.5.3.1 Filters.
In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air prior to occupancy that provides at least a Minimum Efficiency Reporting Value (MERV) of 8.
INDOOR MOISTURE CONTROL.
5.505.1 Indoor moisture control.
Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24,Part 2, Sections 1203 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures not applicable to low-rise residential occupancies, see Section 5.407.2 of this code.
INDOOR AIR QUALITY.
5.506.1 Outside air delivery.
For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 121 (Requirements For Ventilation) of the 2010 California Energy Code, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.
OUTDOOR AIR QUALITY.
5.508.1 Ozone depletion and greenhouse gas reductions.
Install HVAC and refrigeration and fire suppression equipment shall comply with 5.508.1.1 and 5.508.1.2.
5.508.1.1 Chlorofluorocarbons (CFCs)
Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.
5.508.1.2 Halons Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

ABBREVIATIONS

A/C	air conditioning
AC	asphalt concrete
AD	area drain
ADMIN	administration
AL	aluminum
AB	anchor bolt
APX.	approximate
ARCH	architecture, (architectural)
ASPH	asphalt
AUTO	automatic
&	and
@	at
BM	beam
BLKG	blocking
BD	board
BLDG	building
C	compact
CAB	cabinet
CLNG	ceiling
CKBD	chalkboard
℄	center line
CLR	clear
CLRM	classroom
CO	clean out
COL	column
CONC	concrete
CONST	construction
CONT	continuous, (continue)
CRC	cold rolled channel
CT	ceramic tile
CUST	custodian
D	door
D/(ø)	diameter
DEMO	demolish, (demolition)
DTL	detail
DIF	diffuser
DIM	dimension
DS	down spout
DWG	drawing
DF	drinking fountain
E	east
EA	each
EF	each face
EW	each way
ELEC	electric(al)
EL	elevation
ELEV	elevator
EQV	equivalent
EQ	equal
EXIST/(E)	existing
EXT	exterior
FOC	face of concrete
FOM	face of masonry
FOS	face of studs
FIN	finish(ed)
FA	fire alarm
FE	fire extinguisher
FHMS	flathead machine screw
FHWS	flathead wood screw
FLR	floor(ing)
FD	floor drain
FLUR	fluorescent
FRP	fiberglass resistant panel
FTG	footing
FUR	furred
FV	field verify
GA	gage, (gauge)
GALV	galvanized
GLB	glue lam beam
GYP	gypsum
H	height
HDWR	hardware
HVAC	heating/ventilating air conditioning
HC	hollow core
HM	hollow metal
HP	horsepower
HORIZ	horizontal
INCL	include(d), (ing)
INFOR	information
INSUL	insulat(e), (ion)
INT	interior
KCPL	Keene's cement plaster
L	length
LAB	laboratory
LB	lag bolt
LAM	laminate
LAV	lavatory
HB	hose bibb
MC	mineral core
MH	manhole
MATL	material(s)
MAX	maximum
MECH	mechanic(al)
MED	medium
MT	mosaic tile
MTL	metal
MIN	minimum
MISC	miscellaneous
MKBD	marker board
N	north
(N)	new
NOM	nominal
NIC	not in contract
NTS	not to scale
OC	on center
OS	overflow scupper
OPNG	opening
OVHD	overhead
OL	occupant load
P	paint
PH	panic hardware
PBD	particle board
PED	pedestal
PL	plastic laminate
ℙ	plate
PLYWD	plywood
PNL	panel
PVC	polyvinyl chloride
R	radius
RECO	reconstruction
REF	reference
REG	register
RELO	relocatable
REQ'D	required
RA	return air
RD	roof drain
RM	room
RN	reconstruction note
RO	rough opening
RR	return register
S	south
SG	safety glass
SCHD	schedule
SEC	section
SSK	service sink
SIM	similar
SC	solid core
SF	square footage
SPEC	specification(s)
SQ	square
SS	stainless steel
ST	stain
STD	standard
STL	steel
STO	storage
SD	storm drain
STR/STRUCT	structural
SYS	system
T&B	top & bottom
T&G	tongue & groove
TKBD	tackboard
TEL	telephone
TV	television
THK	thickness
TH	threshold
THRU	through
TOW	top of wall
TYP	typical
UON	unless otherwise noted
UR	urinal
VERT	vertical
VIF	verify in field
VCT	vinyl composition tile
VT	vinyl tile
WSCT	wainscot
WC	water closet
W	west
WG	wire glass
W/	with
W/O	without
WD/W	wood
WIC	Woodwork Institute of California

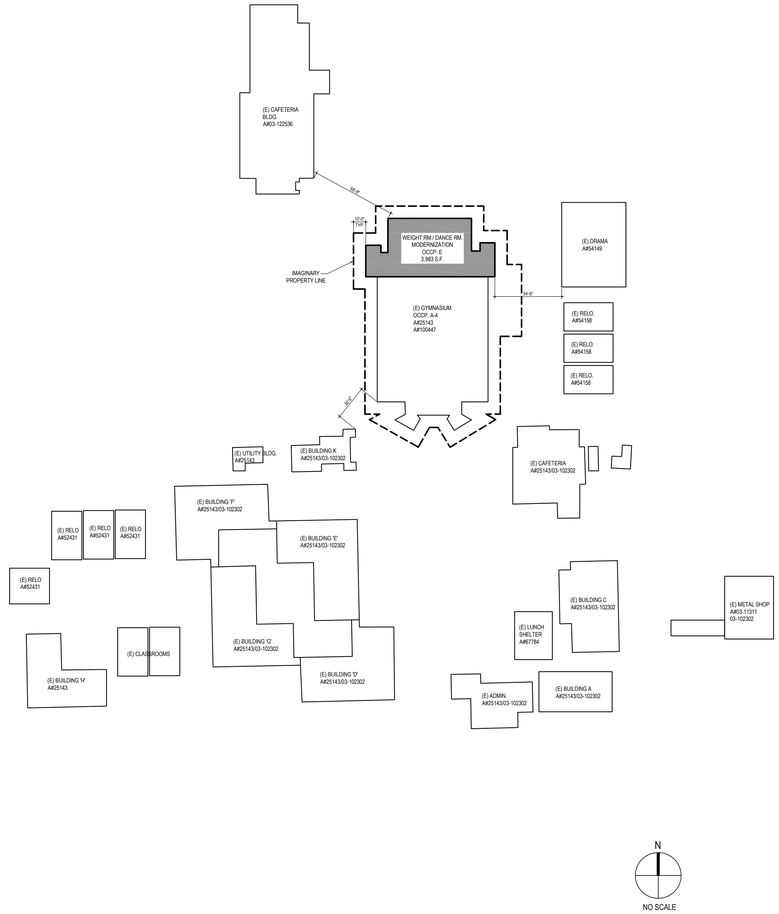
SYMBOL LIST

DETAIL — DETAIL / SHEET

SECTION — DETAIL / SHEET

NORTH ARROW — N

SITE KEY PLAN



N
NO SCALE

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C-26053
Ren. Date 08/31/2027
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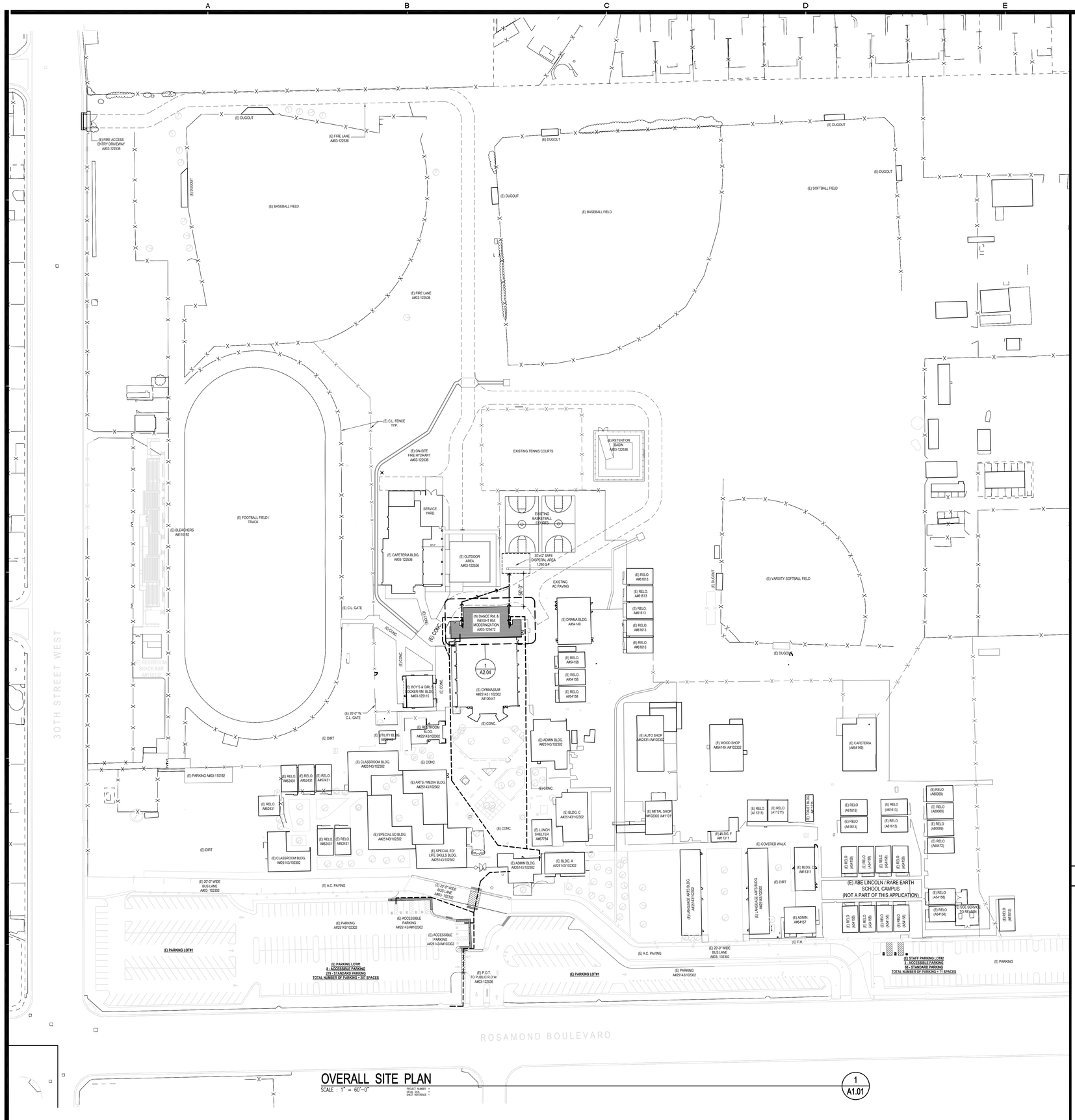
SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH EARLY COLLEGE CAMPUS
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

SITE KEY PLAN,
CAL-GREEN NOTES,
ABBREVIATIONS,
SYMBOL LIST

Job No. 3139
Date 6.25.2024

A0.02



OVERALL SITE PLAN

SCALE : 1" = 60'-0"

PROJECT NUMBER =
TOTAL SHEETS =
SHEET REFERENCE =

1 A1.01

LEGEND

"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 THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND IS AT LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. (POT) SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (11B-307.2). ARCHITECT TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT, AND PATH OF TRAVEL COMPLIES WITH CBC 11B-301.

"DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NON-COMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.

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

EXISTING FIRE HYDRANT

EXIT ROUTE TO SAFE DISPERSAL AREA

EXISTING PARKING TABULATION

PARKING LOT #	STANDARD STALL	REQUIRED ACCESS. STALL			PROVIDED ACCESS. STALL			TOTAL
		CAR	VAN	TOTAL REQ'D	CAR	VAN	TOTAL PROV'D	
#1	279	6	1	7	7	1	8	287
#2	67	1	1	3	1	2	3	71

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

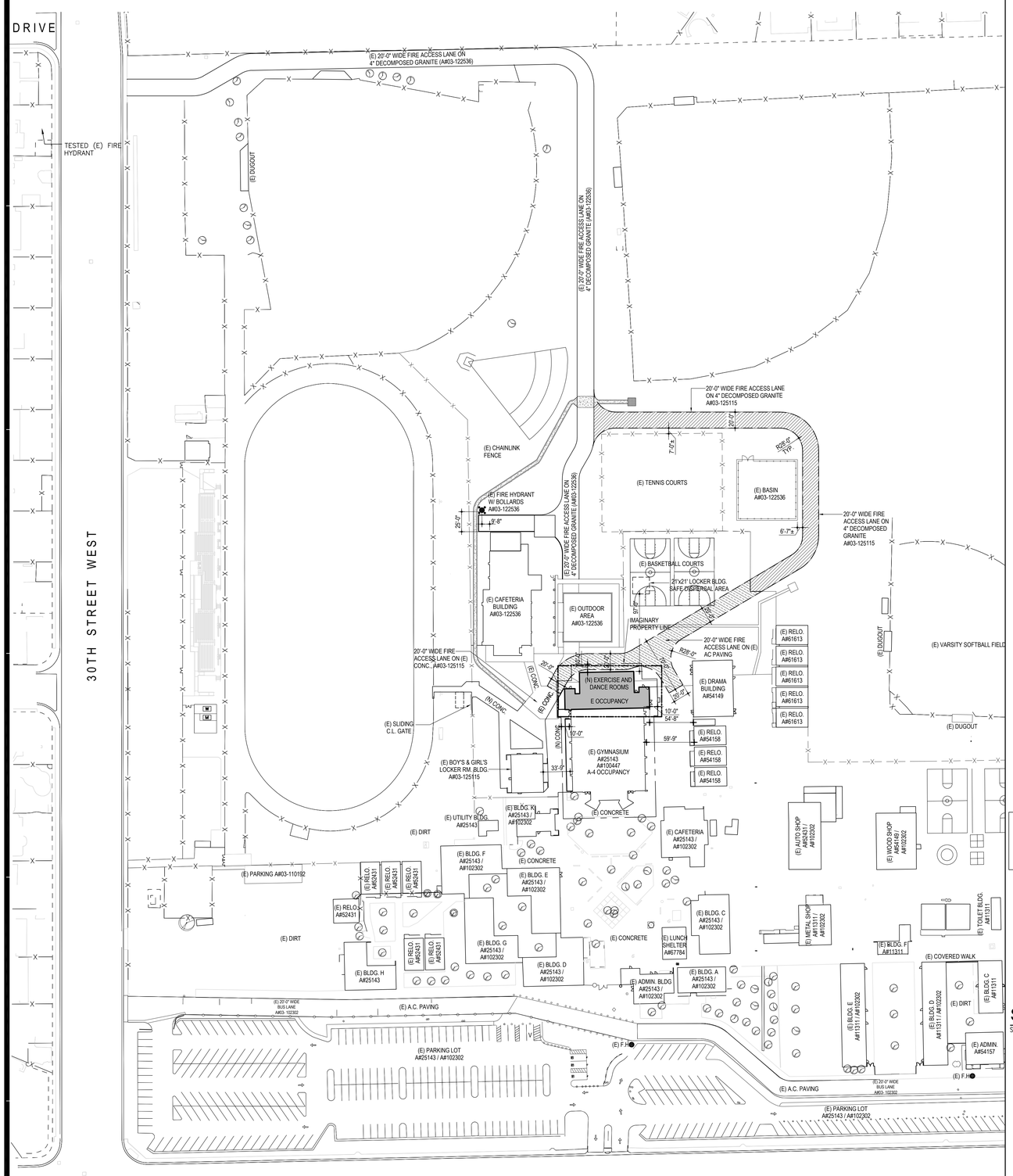
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

OVERALL SITE PLAN

Job No. 3139

Date 6.25.2024

A1.01



FIRE ACCESS PLAN

SCALE : 1" = 60'-0"

PROJECT NUMBER =
DSA/ SS/A =
SHEET REFERENCE =

1 A1.01FA

SITE PLAN LEGEND :

PROPOSED DANCE ROOM & WEIGHT ROOM MODERNIZATION AT THE (E) GYMNASIUM

(E) F.H. (E) FIRE HYDRANT

(N) FIRE ACCESS LANE UNDER A#03-125115

(N) FIRE LANE ON (E) CONC. OR AC PAVING UNDER A#03-125115

PROJECT DATA :

NUMBER OF STORIES ONE

TYPE OF OCCUPANCY E - EXERCISE/WEIGHT ROOM AND DANCE ROOM
A-4 - (E) GYMNASIUM

TYPE OF CONSTRUCTION III B

TOTAL BUILDING AREA E OCCUPANCY = 4,242 S.F
A-4 OCCUPANCY = 10,473 S.F. W/O (E) OVERHANGS (10,912 S.F. W (E) OVERHANGS)
= 14,715 S.F. TOTAL

BUILDING AREA CALCULATION:

ALLOWABLE FRONTAGE INCREASE - CBC 506.2.2

Aa = { At + (NS x If) }
At = 9,500 TABLE 506.2 A4 OCC. TYPE III B NON SPRINKLERED
If = AREA FACTOR INCREASE DUE TO FRONTAGE (PERCENT) AS CALCULATED IN ACCORDANCE W/ SECTION 506.3
TOTAL PERIMETER = NORTH SIDEYARD + WEST SIDEYARD + SOUTH SIDEYARD + EAST SIDEYARD
106'-0" + 172'-7" + 106'-0" + 172'-7" = 557'-2"
SIDEYARDS IN EXCESS OF 30'-0"
NORTH SIDEYARD + WEST SIDEYARD + SOUTH SIDEYARD + EAST SIDEYARD
106'-0" + 100'-5" + 24'-8" + 106'-0" + 172'-7" = 509'-8"
If = 509.66' / 557.16' = .91 PERCENT THEREFORE TABLE 506.3.3 ALLOWS .75 FRONTAGE INCREASE FACTOR
Aa = { 9,500 + (9,500 x .75) } = { 9,500 + (7,125) } = 16,625 S.F. ALLOWABLE BUILDING AREA

EXIT REQUIREMENTS - TABLE 1006.3.2, 1029.2 & 1029.3

WEIGHT ROOM = E (39 OCC. / 1 MIN. EXIT) 1 EXIT PROVIDED
TOTAL OCCUPANT LOAD - (39 x 0.2 = 8") TOTAL WIDTH PROVIDED = 36"

DANCE ROOM = E (39 OCC. 1 MIN. EXIT) 1 EXIT PROVIDED
TOTAL OCCUPANT LOAD - (39 x 0.2 = 8") TOTAL WIDTH PROVIDED = 36"

SAFE DISPERSAL AREA :

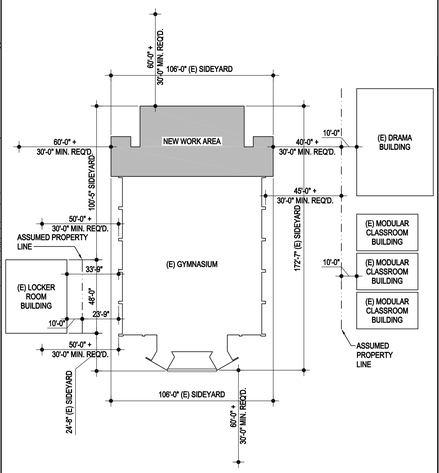
SAFE DISPERSAL AREA (S.D.A.) : 5 S.F. / OCCUPANT

DANCE ROOM & WEIGHT ROOM MODERNIZATION:

4,242 S.F. (BUILDING AREA) / 50 (OCCUPANCY LOAD) = 85 OCCUPANTS

85 OCCUPANTS x 5 S.F. = 425 S.F. REQUIRED SAFE DISPERSAL AREA

21' x 21' = 441 S.F. SAFE DISPERSAL AREA PROVIDED (MIN. 50'-0" AWAY FROM STRUCTURES)



SIDE YARD PLAN

SCALE : NO SCALE

PROJECT NUMBER =
DSA/ SS/A =
SHEET REFERENCE =

2 A1.01FA

RCSD Rosamond Community Services District

ROSAMOND COMMUNITY SERVICES DISTRICT

3179 35th Street West, Rosamond CA 93560
Tel. 661.256.3411 Fax 661.256.2558
Website: www.rosamondcsd.com

BOARD OF DIRECTORS

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Gregory Washington, *Vice President*
Byron Glennan
Rick Webb
Greg Wood

GENERAL MANAGER

Kim Domingo

March 12th, 2025

Joselito Lacson
Flewelling & Moody

Subject: Fire flows at Rosamond High School

In response to your request for information on pipeline pressure and fire flow information, a fire flow test was conducted. The test was conducted March 12th, 2025 and the results are as follows.

Fire hydrant in front at the High School near the Cafeteria

Static Pressure:	102psi
Residual Pressure:	90psi
Observed Flow:	1250gpm
Available Flow at 20 PSI:	3529gpm

Observed flow was taken from the next hydrant downstream of the hydrant being tested. (Fire Hydrant at the corner of Echo and Gertrude)

If you have any questions, please feel free to contact Rosamond Community Services District, at (661) 256-3411

Sincerely,
Matthan Walton
Matthan Walton
Public Works Crew Lead

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy *PL 09-01: Fire Flow for Buildings*.

PROJECT INFORMATION	
School District/Owner:	Southern Kern Unified School District
Project Name/School:	Rosamond High School
Project Address:	2925 Rosamond Boulevard, Rosamond CA 93560

FIRE & LIFE SAFETY INFORMATION				
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☑		No ☐
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☑		No ☐
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? *(If yes, indicate FHSZ classification below.)*	Yes ☐		No ☑
	Refer to the following website for FHSZ locations: http://egis.fire.ca.gov/FHSZ/	Moderate ☐	High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.			✓	
4a.	**Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.				
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements.			✓	
5a.	**Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.				
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.			✓	
6a.	**Acceptable Alternate:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.				✓
7a.	**Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

School District Acceptance of Acceptable Design Alternates

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: _____ Title: _____

Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LFA) INFORMATION		
LFA Agency Name:	Kern County Fire Department	
LFA Review Official:	Janet Huffaker	
Title:	Assistant Fire Marshal	Work Phone: (661) 330-0156
Work Email:	jhuffaker@kerncountyfire.org	

LFA Reviewer's Signature: *Janet Huffaker* Date: 3/25/25

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH EARLY COLLEGE CAMPUS
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

FIRE ACCESS PLAN

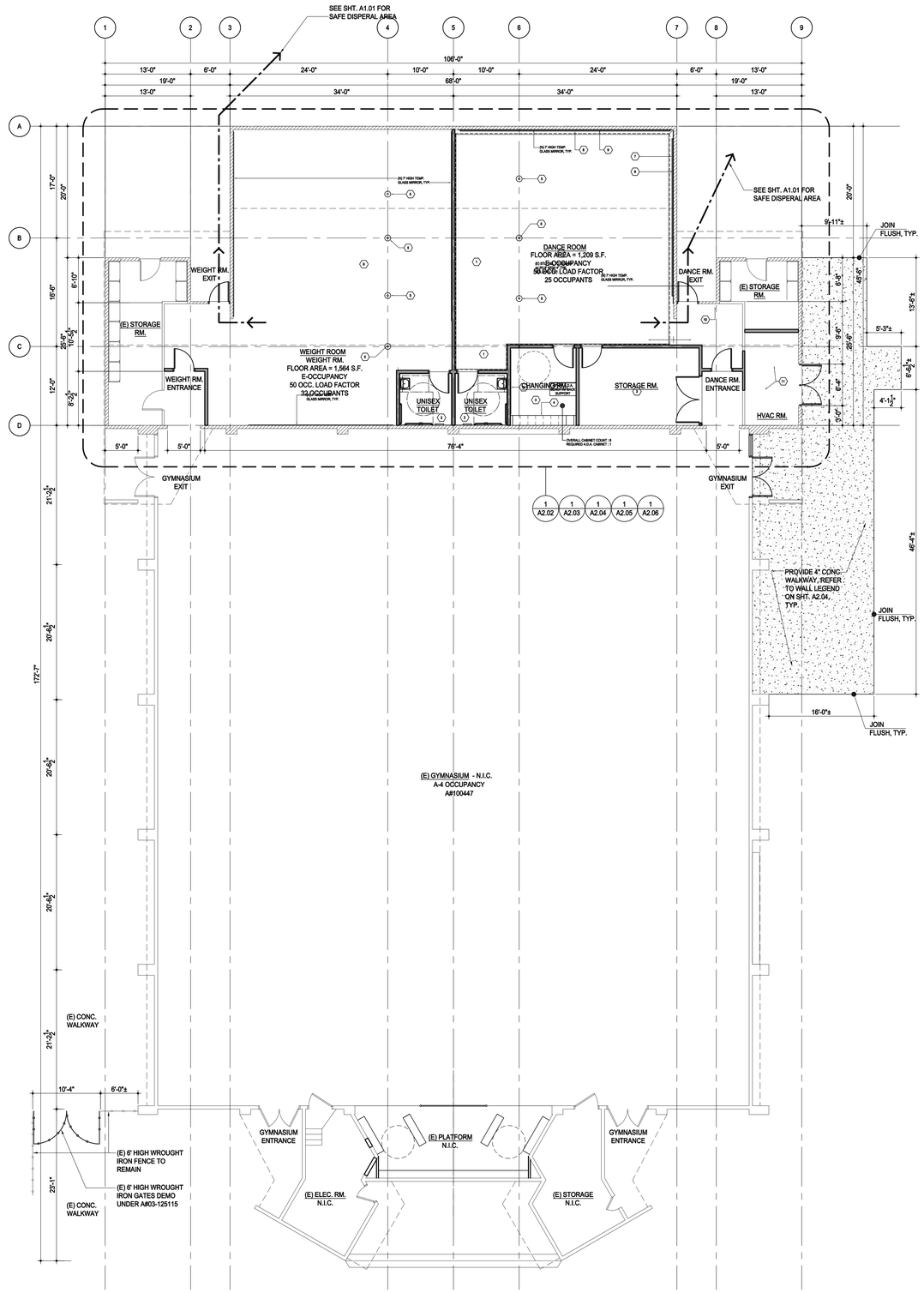
Job No. 3139

Date 6.25.2024

A1.01FA

BUILDING CODE ANALYSIS - CBC 2022

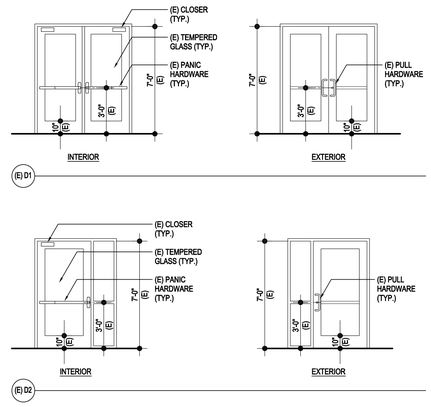
BUILDING DESIGNATION	CONST. TYPE	AUTO. FIRE SPRINKLERS	BASIC ALLOWABLE AREA A (SF)	BASIC ALLOWABLE AREA STORIES/HEIGHT	BLDG. OCCUPANCY	EXTERIOR WALLS BEARING WALLS TABLE 601	EXTERIOR WALLS NON-BEARING WALLS TABLE 705.5	(E) ACTUAL BUILDING AREA (S.F.)	(E) ACTUAL BUILDING STORIES/HEIGHT	COMMENT
GYMNASIUM WEIGHT ROOM/ DANCE ROOM	III B	NO	9,500	1 / 55'	A-4 E	2 HR.	SIDEYARD < 5' = 1 HR. SIDEYARD < 10' =1 HR. SIDEYARD > 10' = 0 HR.	15,152 < 16,625 allowable	1 / < 55'	A# 25143 SEE A1.01FA FOR FRONTAGE INCREASE CALCULATION & EXIT REQUIREMENTS

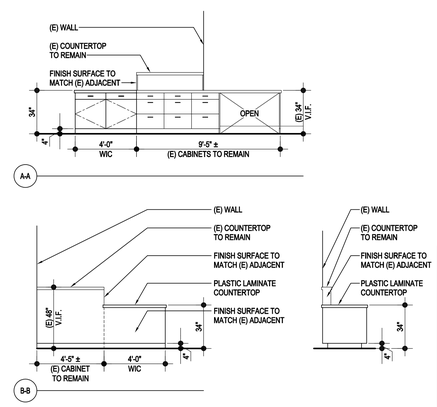


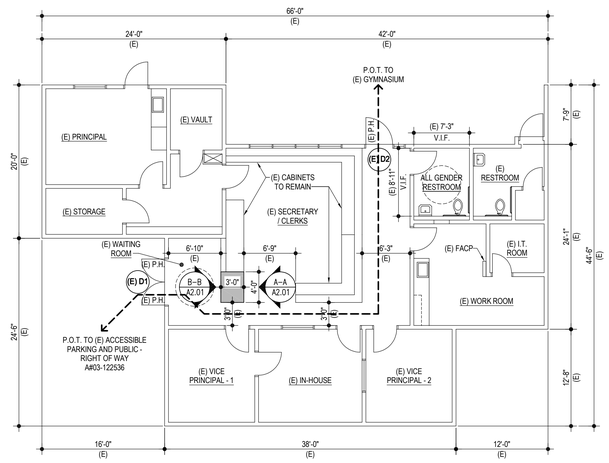
OVERALL GYMNASIUM FLOOR PLAN

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

1 / A2.01







FLOOR PLAN - (E) ADMIN. BLDG.

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

2 / A2.01

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

GYMNASIUM OVERALL FLOOR PLAN

Job No. 3139

Date 6.25.2024

A2.01

BUILDING DEMOLITION KEYNOTES

1. EXISTING 3"Ø STEEL COLUMN TO BE REPLACED LIKE FOR LIKE. SEE STRUCTURAL SHEET S1.10 AND DETAIL 9//S2.00 FOR MORE INFORMATION.
2. PREP EXISTING CONCRETE FLOOR, PATCH AND REPAIR PORTIONS OF FLOOR FOR NEW HVAC UNITS. REFER TO SHT. M2.04 FOR ADDITIONAL INFORMATION
3. DEMO ALL EXISTING TALL COMBINATION METAL LOCKER ISLAND AND EXISTING CONCRETE CURB IN ITS ENTIRETY
4. DEMO ALL EXISTING TALL WALL MOUNTED METAL LOCKERS IN ITS ENTIRETY
5. DEMO ALL EXISTING BENCH IN ITS ENTIRETY
6. DEMO WALL MOUNTED DRINKING FOUNTAIN IN ITS ENTIRETY. REFER TO SHT. P2.02 FOR ADDITIONAL INFORMATION
7. DEMO EXISTING PEDESTAL SHOWER IN ITS ENTIRETY. REFER TO SHT. P2.02 FOR ADDITIONAL INFORMATION
8. DEMO EXISTING 4'-6" HIGH TILED WALL AND CONCRETE CURB IN ITS ENTIRETY
9. DEMO EXISTING SHOWER PARTITIONS, CONCRETE TILE CURB AND ALL PLUMBING SHOWER FIXTURES IN ITS ENTIRETY, TOTAL OF (3) SHOWERS
10. DEMO EXISTING CEILING SOFFIT, CEILING MOUNTED LIGHT FIXTURES AND ALL EXISTING MECHANICAL DUCTS AND VENTS IN ITS ENTIRETY. REFER TO SHT. P2.02 FOR ADDITIONAL INFORMATION
11. DEMO EXISTING INTERIOR PARTITION WALL AND CONCRETE CURB IN ITS ENTIRETY
12. DEMO EXISTING SINKS AND ALL ADJACENT ACCESSORIES. REFER TO SHT. P2.02 FOR ADDITIONAL INFORMATION
13. DEMO ALL EXISTING TOILET PARTITION AND ACCESSORIES IN ITS ENTIRETY
14. DEMO ALL EXISTING TOILET FIXTURES IN ITS ENTIRETY. REFER TO SHT. P2.02 FOR ADDITIONAL INFORMATION
15. DEMO EXISTING WALK-IN SHOWER, FIXTURES, PARTITION, ACCESSORIES AND CONCRETE CURB IN ITS ENTIRETY. REFER TO SHT. P2.02 FOR ADDITIONAL INFORMATION
16. DEMO EXISTING WINDOW AND FRAME IN ITS ENTIRETY
17. DEMO EXISTING FULL HEIGHT CABINET IN ITS ENTIRETY
18. DEMO EXISTING BASE CABINET AND COUNTERTOP IN ITS ENTIRETY
19. DEMO ALL EXISTING ELECTRICAL AND LOW VOLTAGE SURFACE MOUNTED CONDUITS, BOXES AND WIRES INCLUDING ALL MARKERBOARDS, SPEAKERS, CLOCKS, SWITCHES, THERMOSTATS, MIRRORS AND FIRE ALARM DEVICES IN ITS ENTIRERY
20. DEMO ALL EXISTING CEILING MOUNTED LIGHT FIXTURES IN ITS ENTIRETY. REFER TO ELECTRICAL FOR ADDITIONAL INFORMATION
21. DEMO EXISTING PASS-THRU OPENING IN ITS ENTIRETY
22. DEMO EXISTING WALL MOUNTED DRINKING FOUNTAIN IN ITS ENTIRETY. REFER TO SHT. P2.02 FOR ADDITIONAL INFORMATION
23. REMOVE EXISTING STORAGE RACKS AND COORDINATE WITH DISTRICT FOR TEMPORARY LOCATION FOR THE DURATION OF CONSTRUCTION
24. REMOVE AND DISCONNECT POWER AND WATER TO EXISTING ICE MAKER AND COORDINATE WITH DISTRICT FOR TEMPORARY LOCATION FOR DURATION OF CONSTRUCTION. CONTRACTOR SHALL RE-INSTALL ICE MAKER AND RECONNECT POWER AND WATER TO NEW LOCATION AT THE COMPLETION OF PROJECT
25. DEMO EXISTING STORAGE TANK, BASE LEGS, ANCHOR BOLTS AND ALL ASSOCIATED COMPONENTS TIED TO THE STORAGE TANK IN ITS ENTIRETY. REFER TO SHT P2.02 FOR ADDITIONAL INFORMATION
26. DEMO EXISTING MIXING VALVES, CIRCULATING PUMPS AND ALL ASSOCIATED COMPONENTS IN ITS ENTIRETY. REFER TO SHT. P2.02 FOR ADDITIONAL INFORMATION
27. DEMO EXISTING WATER HEATER TANK, CONC. CURB, FLUE THROUGH ROOF AND ALL ASSOCIATED COMPONENTS IN ITS ENTIRETY. REFER TO SHT. P2.02 FOR ADDITIONAL INFORMATION
28. DEMO EXISTING ELECTRICAL PANEL, SWITCHES, BOXES AND CONDUITS THAT IS ASSOCIATED WITH EXISTING EQUIPMENT TO BE REMOVED IN THE BOILER ROOM IN ITS ENTIRETY. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL FOR ADDITIONAL INFORMATION
29. DEMO ALL EXISTING FIRE SPRINKLER HEADS AND PIPES, CEILING LIGHTING FIXTURES, ALL EXISTING PIPES AND CONDUITS AT WALLS AND CEILING ASSOCIATED TO ALL EQUIPMENTS BEING REMOVED IN ITS ENTIRETY
30. CONTRACTOR SHALL REVIEW AND COMPLY WITH ALL ASBESTOS RELATED COMPONENTS AND INCLUDE ALL ABATEMENT REQUIREMENTS IN THE BID.
31. DEMO EXISTING HOLLOW METAL DOORS, FRAMES AND TOP & SIDE TRANSOM PANELS IN ITS ENTIRETY.
32. REMOVE EXISTING DOOR HARDWARE, REFER TO DOOR NO. --- & HARDWARE SET NO. --- ON SHT. A7.01 FOR ADDTIONAL INFORMATION
33. DEMO PORTION OF (E) EXTERIOR STUD WALL (16" ±) IN ITS ENTIRETY AND PREP RESULTING SURFACES FOR NEW DOOR AND FRAME
34. EXISTING 3" Ø STEEL COLUMN TO REMAIN IN PLACE. CONTRACTOR SHALL PROTECT IN PLACE DURING THE ENTIRE CONSTRUCTION PHASE.

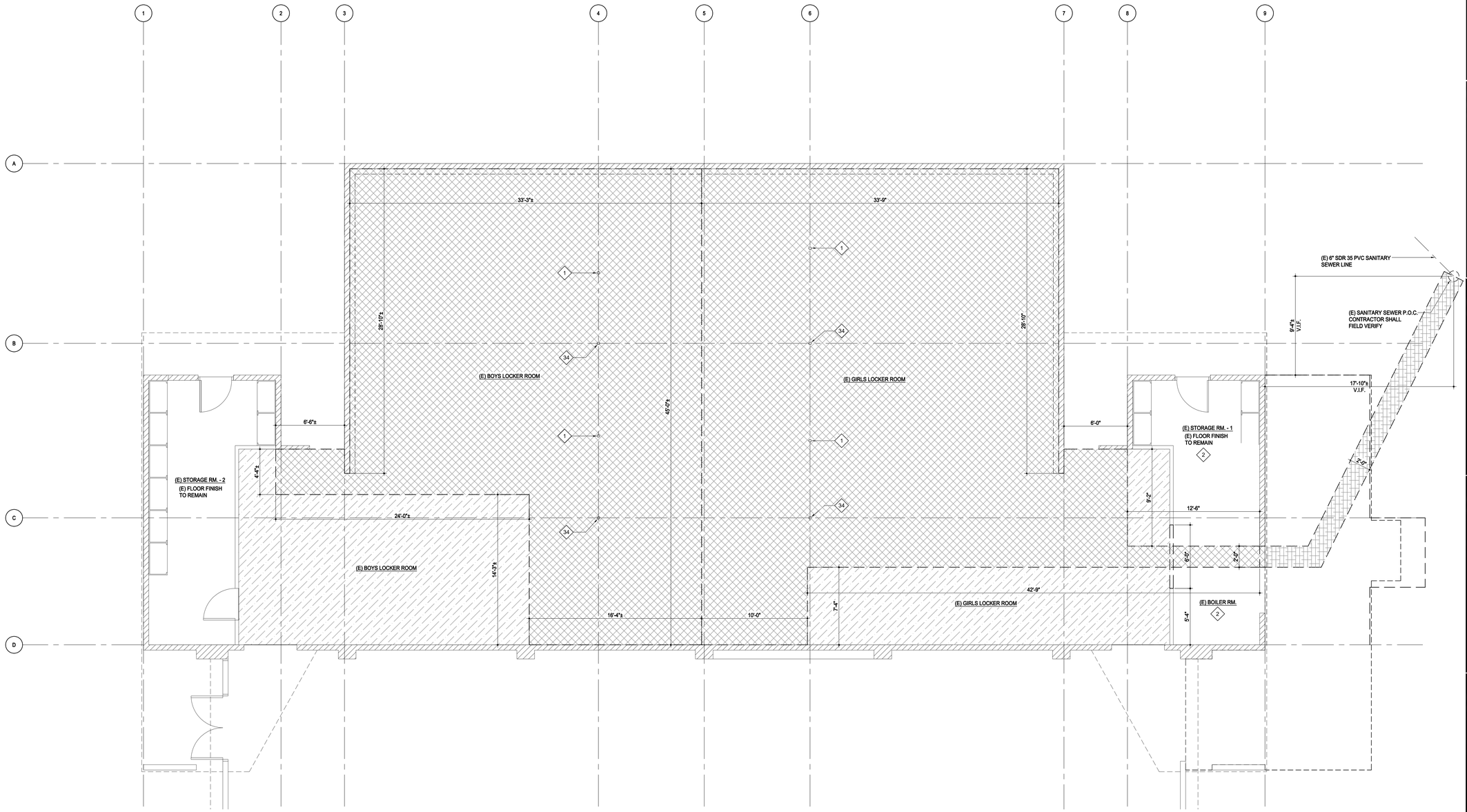
BUILDING DEMOLITION LEGEND

BASE BID: DEMO EXISTING CONCRETE SLAB, FLOOR DRAINS, CLEAN OUTS AND REINFORCEMENT IN ITS ENTIRETY. DEMO EXISTING FLOOR TILES AT ALL BOYS AND GIRLS SHOWER AREAS, TOILETS AREAS AND COACH'S RESTROOMS. CONTRACTOR SHALL REMOVE ALL DEBRIS AND DISPOSE OF IN A LEGAL MANNER. REFER TO SHT. S1.10 FOR NEW SCOPE OF WORK. CONTRACTOR SHALL CUT AND CAP ALL EXISTING PLUMBING PIPES BELOW THE PROPOSED NEW CONCRETE SLAB. CONTRACTOR SHALL FIELD VERIFY PRIOR TO SUBMITTING BIDS.

BID ALTERNATE NO.1: CONTRACTOR SHALL DEMO ALL EXISTING PLUMBING PIPES UNDER THE EXISTING SLAB INCLUDING ALL ACCESSORIES AND DISPOSE OF IN A LEGAL MANNER. REFER TO PLUMBING SHT. P2.02 FOR ADDITIONAL INFORMATION

BASE BID: (E) FLOOR FINISH TO REMAIN. CONTRACTOR SHALL PREP RECEIVING SURFACE FOR (N) FLOOR FINISH PER MANUFACTURER'S REQUIREMENTS.

BASE BID: CONTRACTOR SHALL DEMO A COMBINATION OF CONCRETE AND ASPHALT PAVING FOR NEW SEWER LINE. REFER TO SHT. P2.03 FOR ADDITIONAL INFORMATION.



ENLARGED BOYS & GIRLS LOCKER SLAB DEMOLITION PLAN

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

1 / A2.02

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No.	Date	Description
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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

ENLARGED BOYS & GIRLS LOCKER SLAB DEMOLITON FLOOR PLAN

Job No. 3139

Date 6.25.2024

A2.02

BUILDING DEMOLITION KEYNOTES

1. EXISTING 3'Ø STEEL COLUMN TO BE REPLACED LIKE FOR LIKE. SEE STRUCTURAL SHEET S1.10 AND DETAIL 9//S2.00 FOR MORE INFORMATION.
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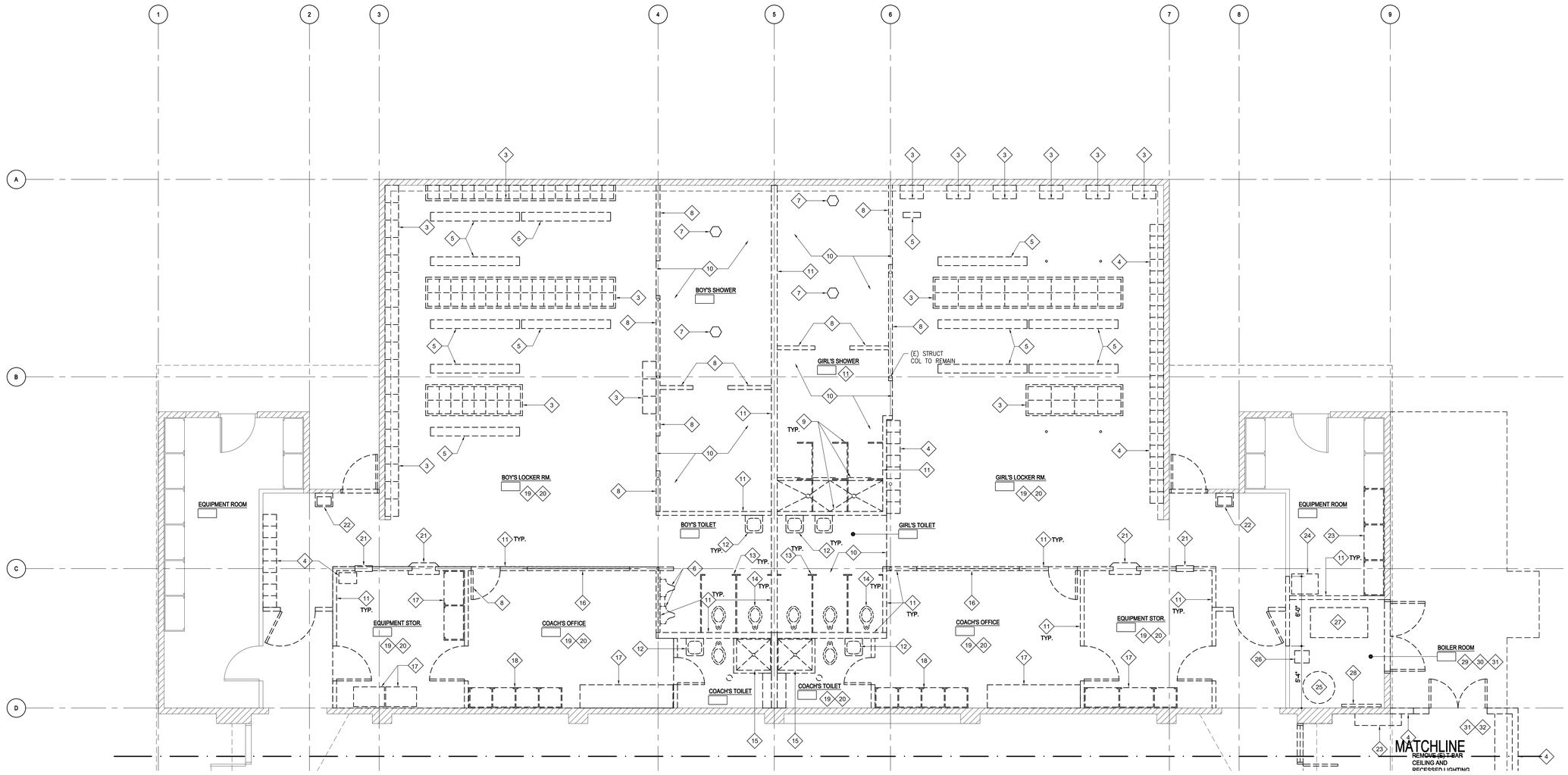
BUILDING DEMOLITION LEGEND

DEMO DOOR AND FRAME IN ITS ENTIRETY



ENLARGED BOYS & GIRLS LOCKER DEMOLITION FLOOR PLAN

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

1 / A2.03

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Ren. Date: 08/31/2027
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CONSULTANT

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

ENLARGED BOYS & GIRLS LOCKER DEMOLITION FLOOR PLAN

Job No.
31.39

Date
6.25.2024

A2.03

BUILDING DEMOLITION KEYNOTES

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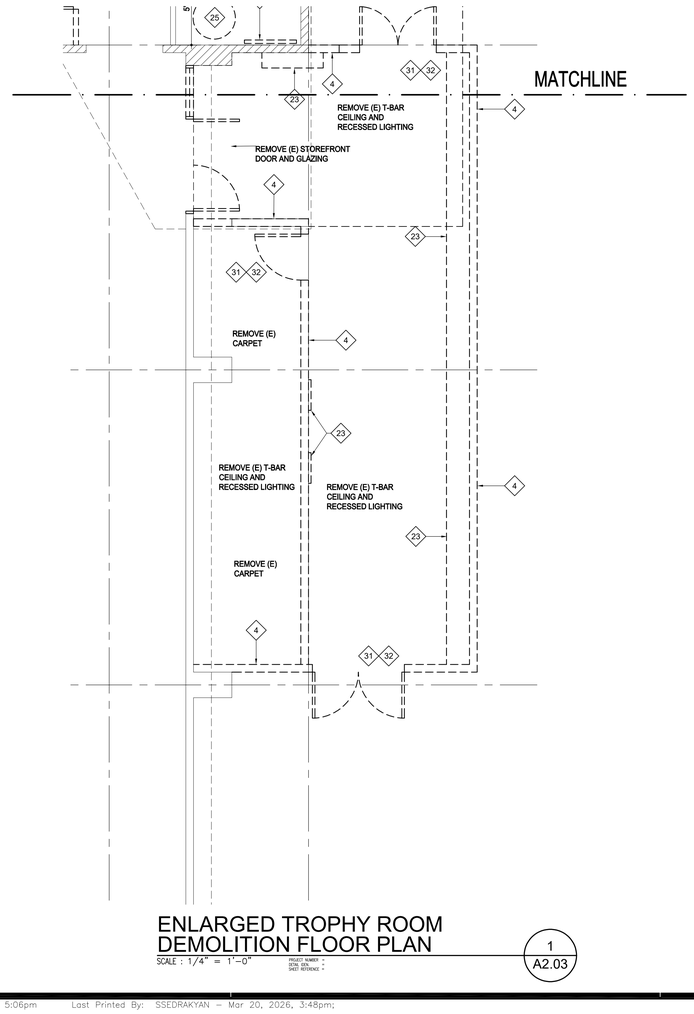
BUILDING DEMOLITION LEGEND

DEMO DOOR AND FRAME IN ITS ENTIRETY



ENLARGED TROPHY ROOM DEMOLITION FLOOR PLAN

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

PROJECT NUMBER
DETAIL #/TI
SHEET REFERENCE

1 / A2.03

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

ENLARGED TROPHY ROOM DEMOLITION FLOOR PLAN

Job No. 3139

Date 6.25.2024

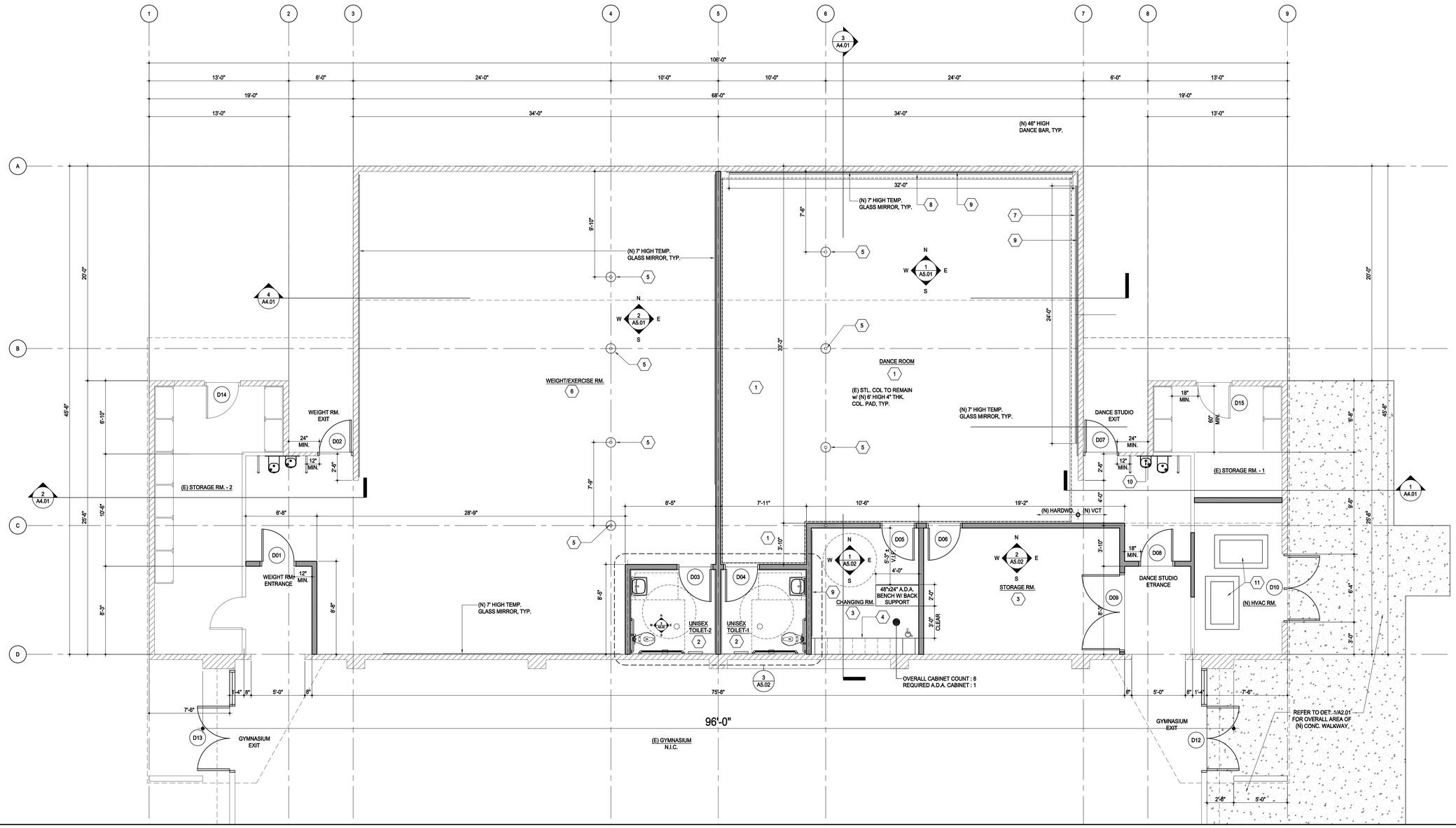
A2.03-1

RECONSTRUCTION FLOOR PLAN KEYNOTES

1. PROVIDE PRO FORMA FLEXWEAVE HARDWOOD DANCE FLOOR WITH COMPLETE SUB-FLOOR SYSTEM BY CONNOR DANCE. COLOR TO BE SELECTED BY ARCHITECT.
2. PROVIDE 2" x 2" MOSAIC CERAMIC FLOOR TILE (KEYSTONE SERIES) SETTING BED AND SLOPE FLOORS TO DRAIN. COLOR TO BE SELECTED BY ARCHITECT FROM FULL RANGE OF COLORS.
3. PROVIDE 12" X 12" VCT FLOORING, COLOR TO BE SELECTED BY ARCHITECT FROM FULL RANGE OF COLORS.
4. PROVIDE CDS 100 SERIES BASE CABINETS, COLOR TO BE SELECTED BY ARCHITECT FROM FULL RANGE OF COLORS. PROVIDE CABINET ANCHORAGE (12 / A9.02)
5. PROVIDE 3" Ø - 6' TALL COLUMN PAD BY ATHLETIC EQUIPMENT OR EQUAL. COLOR TO BE SELECTED BY ARCHITECT.
6. PROVIDE SPORT IMPACT STRENGTH FLOOR SYSTEM BY MONDO FLOORING. COLOR TO BE SELECTED BY ARCHITECT FROM FULL RANGE OF COLORS.
7. PROVIDE (3) 1 ⅝" x 8' LONG OAK WOOD BARRE WITH CLASSIX-DUO FLOOR MOUNTED BARRE BRACKET BY CUSTOM BARRES - MOUNTING DETAIL SEE (3 / A9.02)
8. PROVIDE (4) 1 ⅝" x 8' LONG OAK WOOD BARRE WITH CLASSIX-DUO FLOOR MOUNTED BARRE BRACKET BY CUSTOM BARRES - MOUNTING DETAIL SEE (3 / A9.02)
9. PROVIDE MIN. ¼" PERSPEX MIRRORS W/ ALUMINUM TRIM. SEE (16 / A9.01)
10. PROVIDE HI-LO DRINKING FOUNTAIN (4 / A9.01)
11. MECHANICAL UNITS, SEE M2.04 FOR MORE INFORMATION

WALL LEGEND

- (E) 6" CONCRETE WALL
- (E) 6" METAL STUD WALL
- (E) 4" WOOD STUD WALL
- (N) 2x6 @ 16" O.C. WOOD STUD WALL w/ R-19 BATT INSULATION, TYP.
- (N) 4" THK. CONC. WALKWAY (MEDUIM BROOM FINISH) w/ #3 REBAR @15" O.C. EACH WAY CENTERED IN SLAB



ENLARGED DANCE ROOM AND WEIGHT ROOM FLOOR PLAN

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

1 / A2.04

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

ENLARGED DANCE ROOM & WEIGHT ROOM FLOOR PLAN

Job No. 3139

Date 6.25.2024

A2.04

WALL LEGEND

(E) 6" CONCRETE WALL

(E) 6" METAL STUD WALL

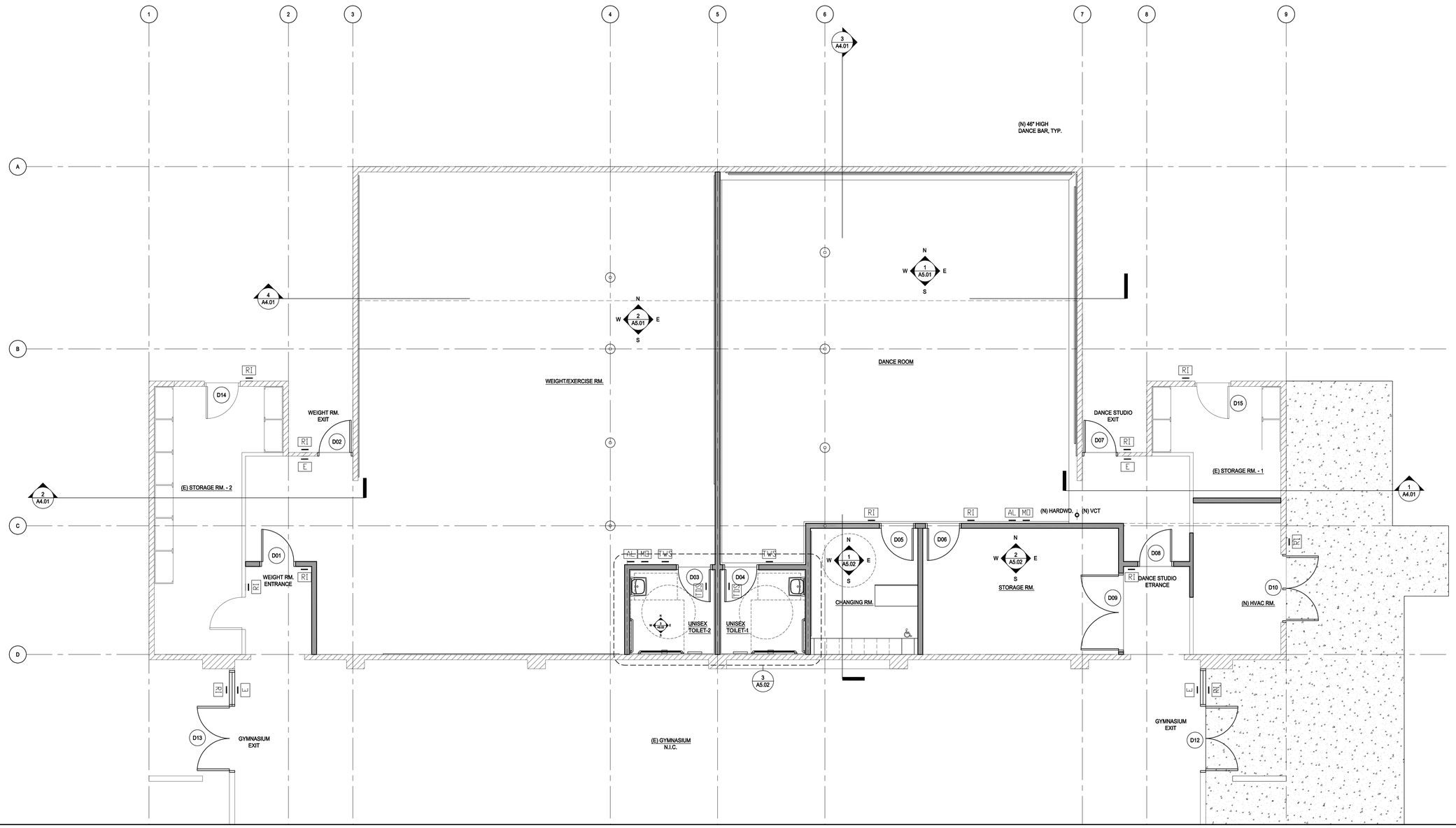
(E) 4" WOOD STUD WALL

(N) 6" WOOD STUD WALL — 16 / A9.01

(N) 4" THK. CONC. WALKWAY (MEDUIM BROOM FINISH) w/ #3 REBAR @15" O.C. EACH WAY CENTERED IN SLAB

SIGNAGE LEGEND

- TACTILE "TOILET WALL" SIGN. SEE DTL. 13/A9.02
- "MAXIMUM OCCUPANCY" SIGN. SEE DTL. 15/A9.02
- ASSISTIVE LISTENING SIGN. SEE DTL. 14/A9.02
- TACTILE "ROOM IDENTIFICATION" SIGN. SEE DTL. 17/A9.02
- TACTILE "EXIT" SIGN. SEE DTL. 19/A9.02
- TACTILE "TOILET DOOR" SIGN. SEE DTL. 20/A9.02
- DOOR NO. (SEE SCHEDULE A7.01)



ENLARGED DANCE ROOM AND WEIGHT ROOM FLOOR PLAN

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

1 / A2.04

PROJECT NUMBER =
DOM. EST. =
SHEET REFERENCE =

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ENLARGED DANCE ROOM & WEIGHT ROOM SIGNAGE PLAN

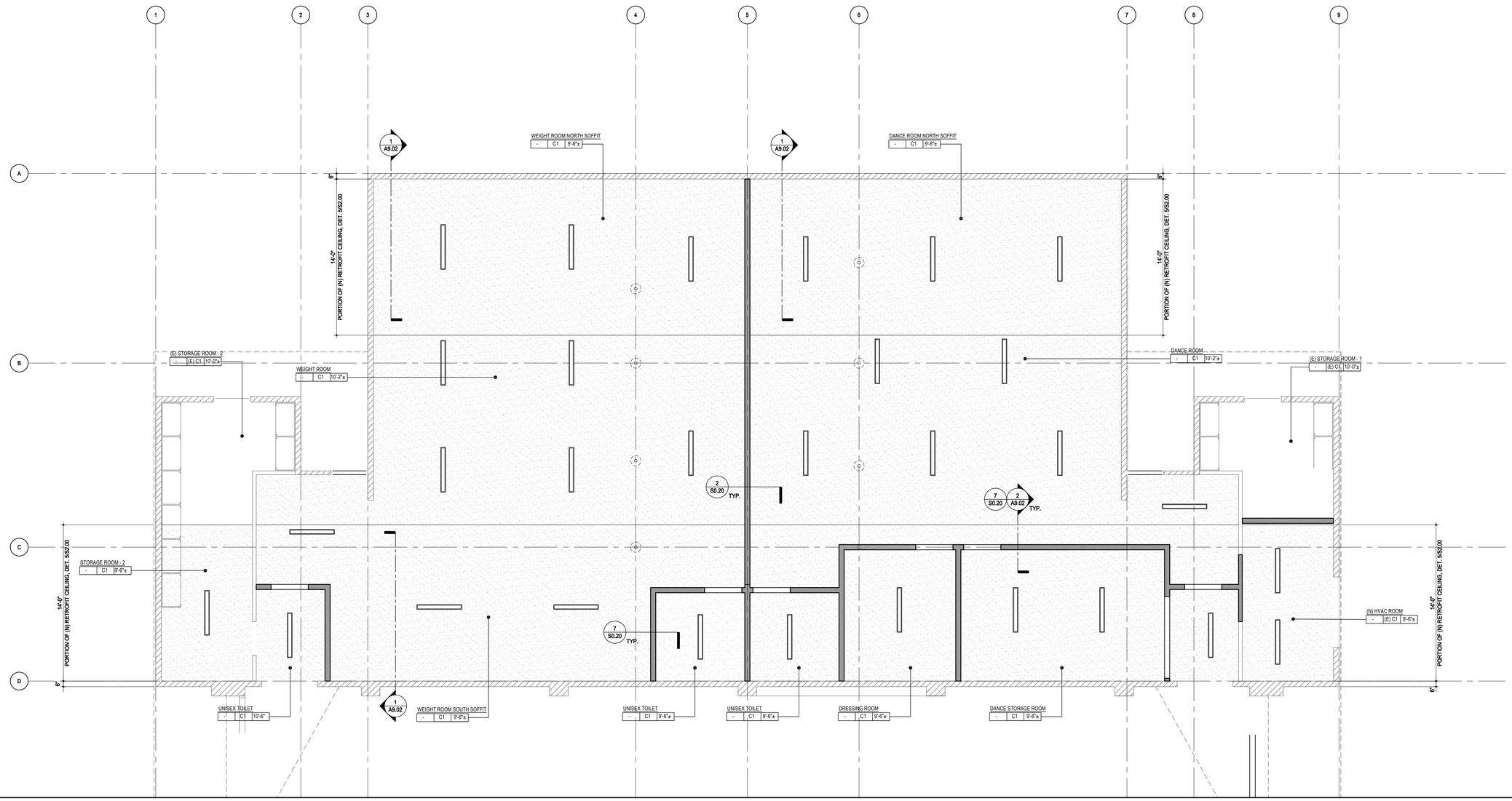
Job No. 3139

Date 6.25.2024

A2.04-1

CEILING LEGEND

PROVIDE ⅝" GYP. BD. CEILING ON (E) ROOF JOIST AND SHALL BE PAINTED. COLOR TO BE SELECTED BY ARCHITECT



ENLARGED DANCE ROOM & WEIGHT ROOM CEILING PLAN

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

1 A2.05

PROJECT NUMBER
SEAL AND
SHEET REFERENCE

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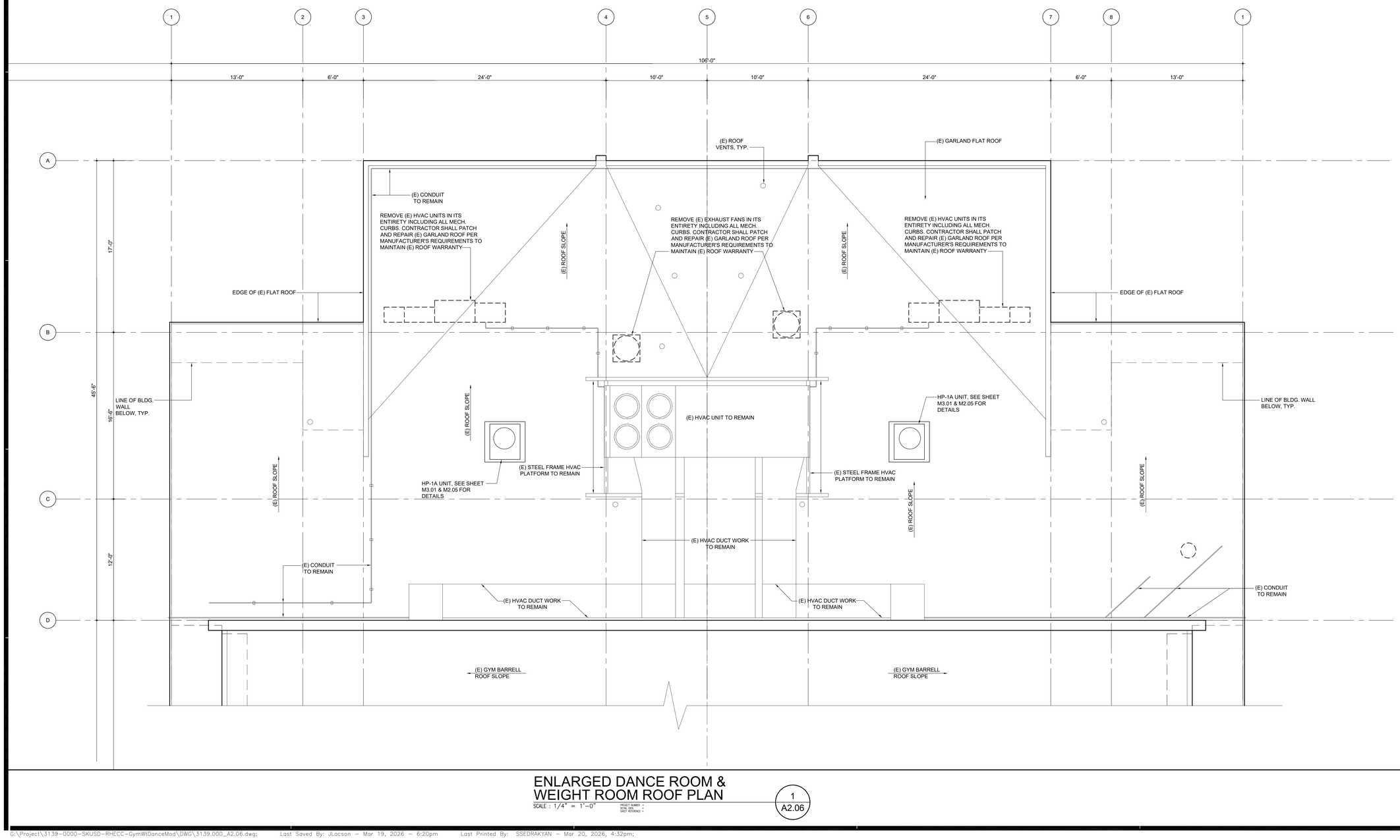
ENLARGED DANCE ROOM & WEIGHT ROOM CEILING PLAN

Job No. 3139

Date 6.25.2024

A2.05



ENLARGED DANCE ROOM & WEIGHT ROOM ROOF PLAN

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

PROJECT NUMBER =
DSA/ OSA =
SHEET REFERENCE =

1
A2.06

G:\Project\3139-0000-SKUSD-RHECC-GymWtDanceMod\DWG\3139.000_A2.06.dwg; Last Saved By: JLacson - Mar 19, 2026 - 6:20pm Last Printed By: SSEDRAKYAN - Mar 20, 2026, 4:32pm;

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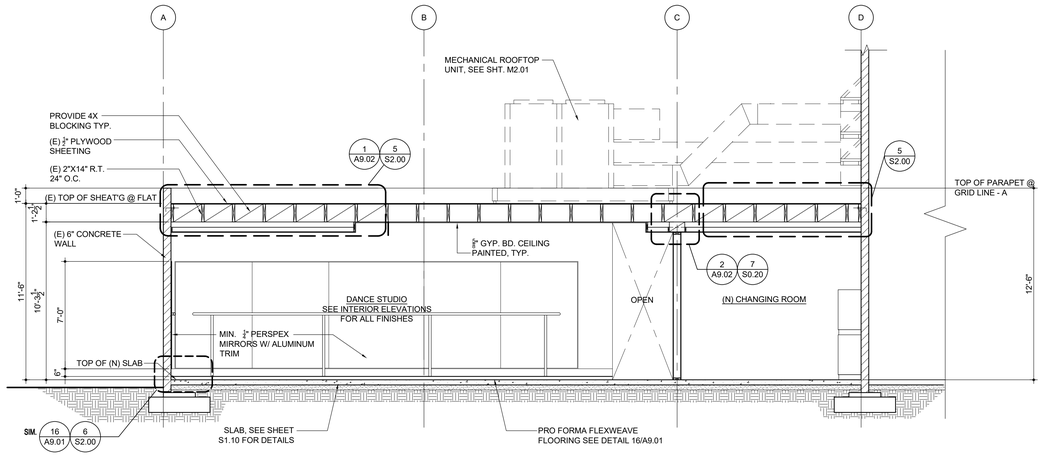
ENLARGED DANCE ROOM & WEIGHT ROOM ROOF PLAN

Job No.
3139

Date
6.25.2024

A2.06

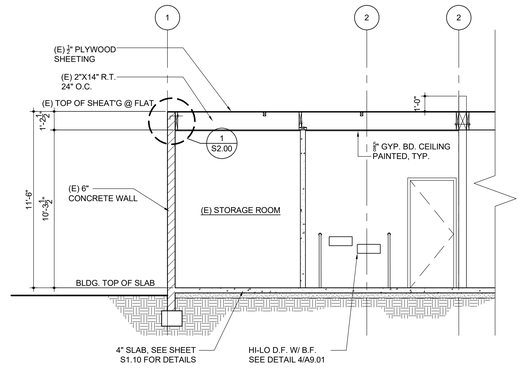


BUILDING SECTION

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

PROJECT NUMBER =
DETAIL SEN. =
SHEET REFERENCE =

3 A4.01

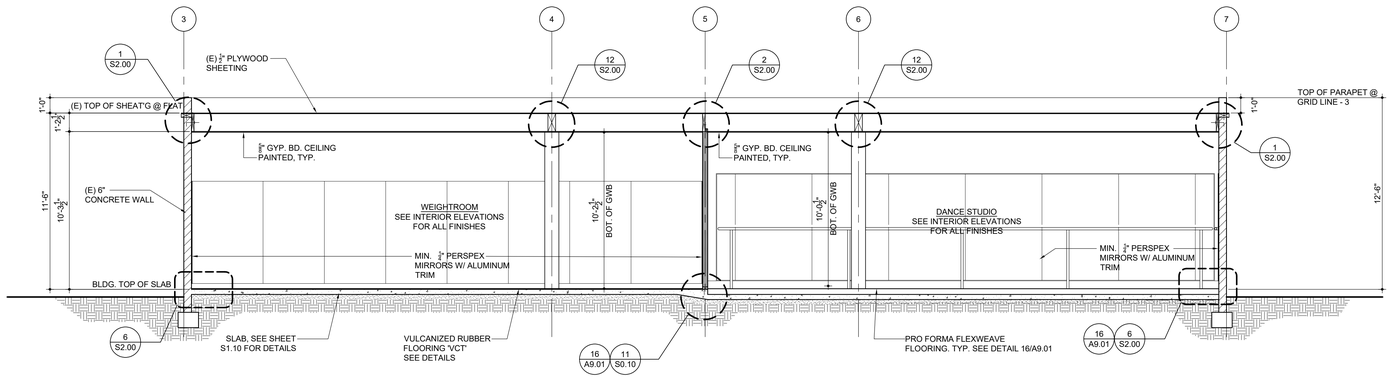


BUILDING SECTION

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

PROJECT NUMBER =
DETAIL SEN. =
SHEET REFERENCE =

2 A4.01



BUILDING SECTION

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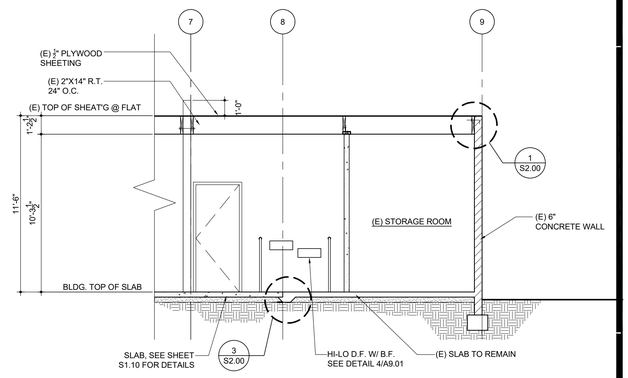
4 A4.01



BUILDING SECTION

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

PROJECT NUMBER =
DETAIL SEN. =
SHEET REFERENCE =

1 A4.01

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ROSAMOND HIGH EARLY COLLEGE CAMPUS

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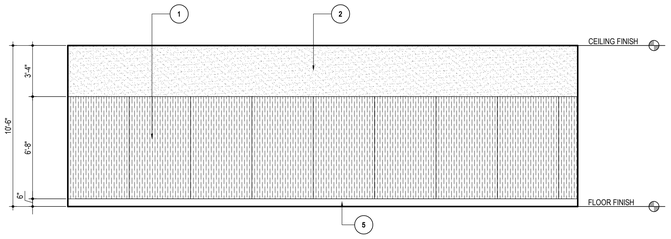
BUILDING SECTIONS

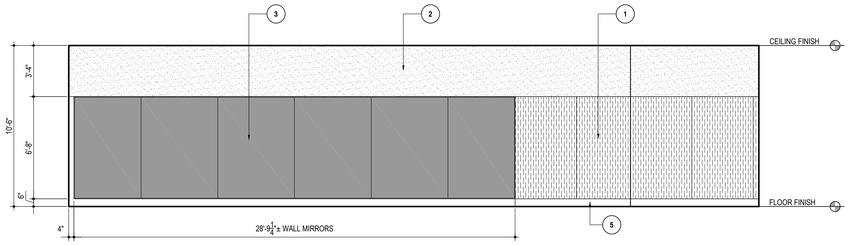
Job No. 3139

Date 6.25.2024

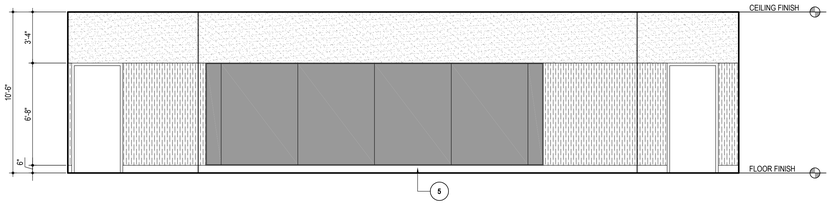
A4.01



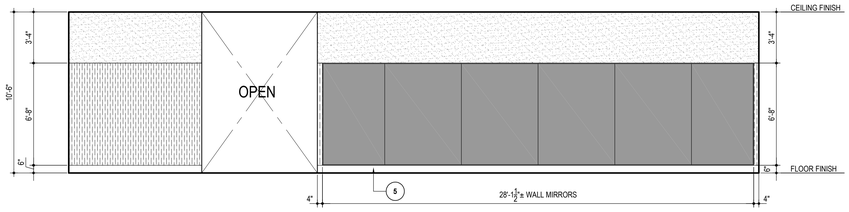
NORTH
WEIGHT ROOM



EAST
WEIGHT ROOM



SOUTH
WEIGHT ROOM

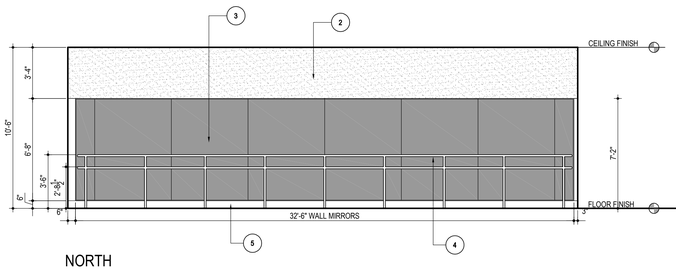


WEST
WEIGHT ROOM

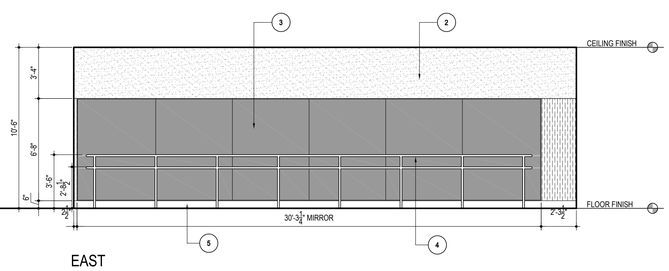
WEIGHT ROOM INTERIOR ELEVATIONS

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

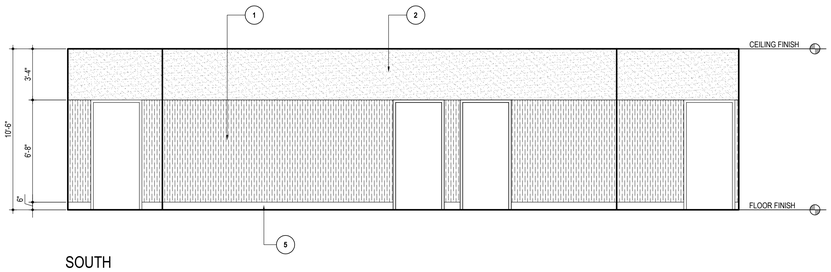
2 / A5.01



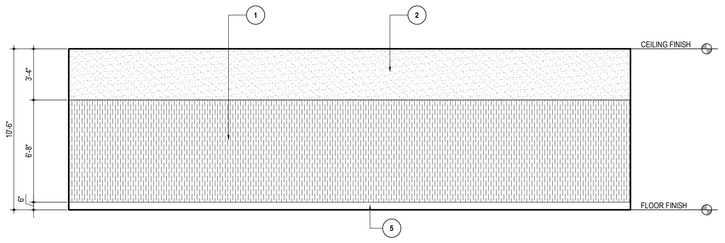
NORTH
DANCE ROOM



EAST
DANCE ROOM



SOUTH
DANCE ROOM



WEST
DANCE ROOM

DANCE ROOM INTERIOR ELEVATIONS

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

1 / A5.01

INTERIOR ELEVATION KEYNOTES:

1. PROVIDE PEBBLED FRP PANELS WITH ALUMINUM TRIM, COLORS TO BE SELECTED BY ARCHITECT FROM STANDARD COLORS
2. PROVIDE 5/8" GYP. BOARD, PAINT COLOR TO BE SELECTED BY ARCHITECT
3. PROVIDE MIN. 1/4" PERSPEX MIRRORS WITH ALUMINUM TRIM - SEE MOUNTING DTL. 13/A9.01 (16 / A9.01)
4. PROVIDE 10' LONG 1 7/4" POPLAR SINGLE WALL MOUNTED BARRES W/ ADJUSTABLE CHROME BARCKETS - FOR MOUNTING DETAIL SEE 3/A9.02
5. 4" RUBBER BASE BY BURKE MERCER, COLOR TO BE SELECTED BY ARCHITECT.

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
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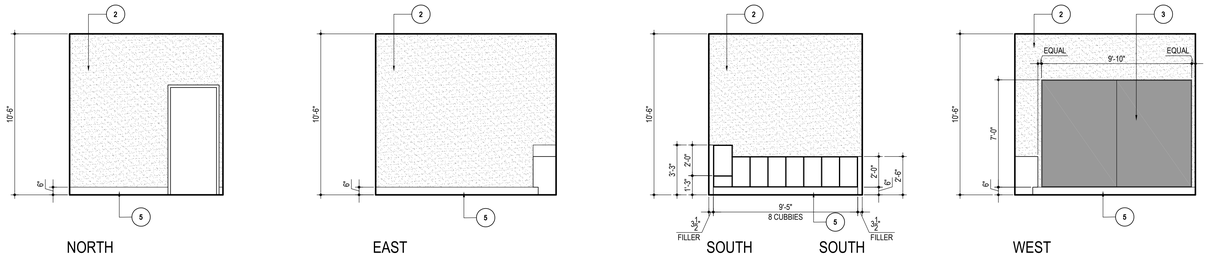
DANCE ROOM & WEIGHT ROOM INTERIOR ELEATIONS

Job No. 3139

Date 6.25.2024

A5.01

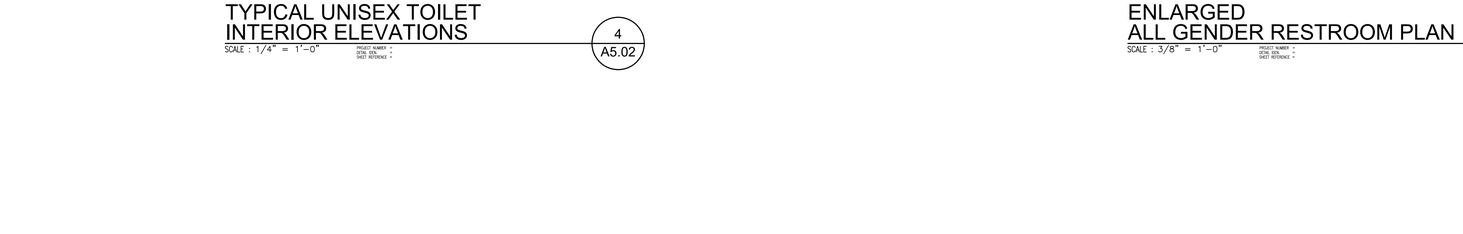


STORAGE ROOM INTERIOR ELEVATIONS

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

PROJECT NUMBER =
DETAIL IDEN. =
SHEET REFERENCE =

1
A5.02

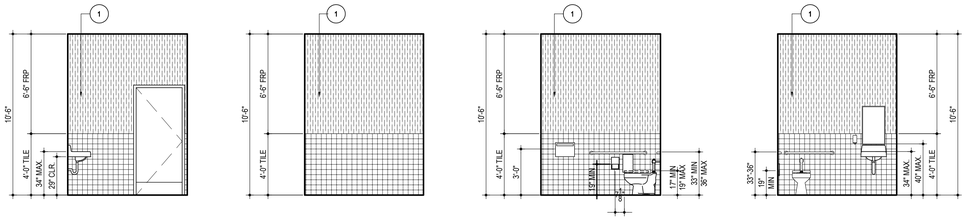


DRESSING ROOM INTERIOR ELEVATIONS

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

PROJECT NUMBER =
DETAIL IDEN. =
SHEET REFERENCE =

2
A5.02

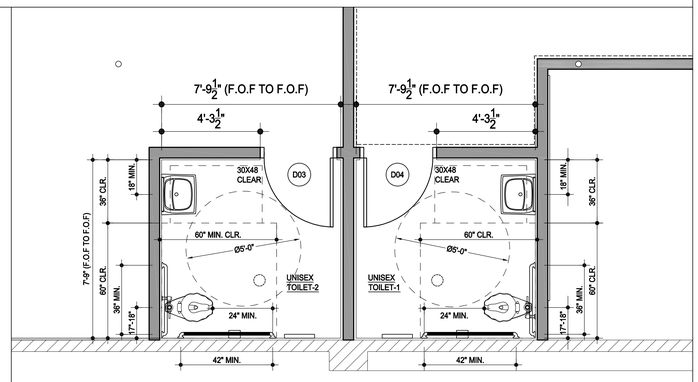


TYPICAL UNISEX TOILET INTERIOR ELEVATIONS

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

PROJECT NUMBER =
DETAIL IDEN. =
SHEET REFERENCE =

4
A5.02



ENLARGED ALL GENDER RESTROOM PLAN

SCALE : 3/8" = 1'-0"

PROJECT NUMBER =
DETAIL IDEN. =
SHEET REFERENCE =

3
A5.02

INTERIOR ELEVATION KEYNOTES:

1. PROVIDE PEBBLED FRP PANELS WITH ALUMINUM TRIM, COLORS TO BE SELECTED BY ARCHITECT FROM STANDARD COLORS
2. PROVIDE ⅝" GYP. BOARD, PAINT COLOR TO BE SELECTED BY ARCHITECT
3. PROVIDE MIN. ¼" PERSPEX MIRRORS WITH ALUMINUM TRIM - SEE MOUNTING DTL. 16/A9.01
4. PROVIDE 10' LONG 1¼" POPLAR SINGLE WALL MOUNTED BARRES W/ ADJUSTABLE CHROME BARCKETS - FOR MOUNTING DETAIL SEE 3/A9.02
5. 4" RUBBER BASE BY BURKE MERCER, COLOR TO BE SELECTED BY ARCHITECT.

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ENLARGED ALL GENDER RESTROOM PLAN & INTERIOR ELEVATIONS

Job No. 3139

Date 6.25.2024

A5.02

FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS	CEILING	REMARKS
1	(E) STORAGE ROOM-1	(E)	(E)	(E)	-	-
2	(N) HVAC ROOM	F1	B1	-	C1	-
3	DANCE ROOM	F1	B1	W1, W2	C1	-
4	DANCE STORAGE ROOM	F3	B1	W2	C1	-
5	DRESSING ROOM	F3	B1	W1, W2	C1	-
6	UNISEX TOILET	F2	B1	W1	C1	-
7	UNISEX TOILET	F2	B1	W1	C1	-
8	WEIGHT ROOM	F4	B1	W1, W2	C1	-
9	(E) STORAGE ROOM-2	(E)	(E)	(E)	C1	-

GENERAL NOTES

1. SUBMIT SAMPLES OF ALL MATERIALS TO ARCHITECT FOR REVIEW AND APPROVAL.
2. ALL SURFACES WITHOUT A FACTORY FINISH SHALL BE PAINTED. INCLUSIVE OF ALL WOODWORK AND TRIM.
3. WHERE DIFFERENT FLOOR FINISHES OCCUR AT ADJOINING ROOMS, TRANSITIONS SHALL OCCUR AT CENTERLINE OF DOOR AND / OR TERMINATE BELOW THRESHOLD.
4. WHERE DIFFERENT MATERIALS ABUT, PROVIDE STANDARD MANUFACTURERS TRIM. WHERE A STANDARD TRIM IS NOT AVAILABLE PROVIDE SCHLUTER STAINLESS STEEL TRIM.
5. WHERE CONCRETE CURB EXISTS, OMIT RUBBER BASE.
6. PAINT ALL VISIBLE SURFACES BEHIND DIFFUSERS AND GRILLES FLAT BLACK, REFER TO SHEET M1.01.

INTERIOR WALL AND CEILING FINISH REQUIREMENTS (TABLE 803.11) FINISH MATERIALS SHALL BE AS SPECIFIED	
SPACES	CLASS REQUIRED
CLASSROOMS AND ENCLOSED SPACES	C - FLAME SPREAD INDEX 76-200; SMOKE DEVELOPED INDEX 0-450

FINISH SCHEDULE LEGEND

FINISH LEGEND

F1
ITEM: HARDWOOD DANCE FLOOR
MFR.: CONNOR DANCE
COLOR/NO.: -
INSTALLATION: -
SIZE: -
LOCATIONS:

F2
ITEM: MOSAIC CERAMIC TILE
MFR.: KEYSTONE SERIES
COLOR/NO.: -
INSTALLATION: -
SIZE: -
LOCATIONS:

F3
ITEM: VCT FLOORING
MFR.: -
COLOR/NO.: -
INSTALLATION: -
SIZE: -
LOCATIONS:

F4
ITEM: MONDO FLOORING
MFR.: -
COLOR/NO.: -
INSTALLATION: -
SIZE: -
LOCATIONS:

B1
ITEM: RUBBER BASE
MFR.: BURKE TS
COLOR/NO.: -
INSTALLATION:
SIZE: 4"
LOCATIONS: AS NOTED

W1
ITEM: PEBBLED FRP
MFR.: -
COLOR/NO.: -
INSTALLATION: -
SIZE: -
LOCATIONS:

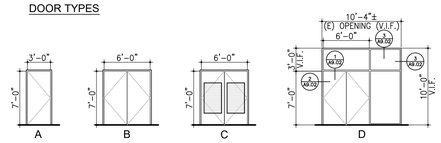
W2
ITEM: GYP. BOARD
MFR.: -
COLOR/NO.: -
INSTALLATION: -
SIZE: -
LOCATIONS:

C1
ITEM: GYP. BOARD
MFR.: -
COLOR/NO.: -
INSTALLATION: -
SIZE: -
LOCATIONS:

DOOR SCHEDULE

DOOR NO.	TYPE	FIRE RATING	DOOR SIZE	DOOR MATERIAL	DOOR FINISH	DOOR VISION PANEL	FRAME MATERIAL	FRAME FINISH	HDWR SET	PANIC	DETAILS HEAD	DETAILS JAMB	DETAILS TH	SIGNAGE PUSH	SIGNAGE PULL	SIGNAGE DOOR	COMMENT
D01	A	-	3'-0" X 7'-0" X 1-3/4"	HM	PAINT		HM	PAINT	01		11/A9.01	10/A9.01	9/A9.01	17/A9.02		-	
D02	A	-	3'-0" X 7'-0" X 1-3/4"	HM	PAINT		HM	PAINT	02		15/A9.01	2/A9.01	8/A9.01		17/A9.02	-	P.H.
D03	A	-	3'-0" X 7'-0" X 1-3/4"	HM	PAINT		HM	PAINT	03		11/A9.01	10/A9.01	9/A9.01	17/A9.02		20/A9.02	
D04	A	-	3'-0" X 7'-0" X 1-3/4"	HM	PAINT		HM	PAINT	03		11/A9.01	10/A9.01	9/A9.01	17/A9.02		20/A9.02	
D05	A	-	3'-0" X 7'-0" X 1-3/4"	HM	PAINT		HM	PAINT	03		11/A9.01	10/A9.01	9/A9.01	17/A9.02		-	
D06	A	-	3'-0" X 7'-0" X 1-3/4"	HM	PAINT		HM	PAINT	04		11/A9.01	10/A9.01	9/A9.01	17/A9.02		-	
D07	A	-	3'-0" X 7'-0" X 1-3/4"	HM	PAINT		HM	PAINT	02		15/A9.01	2/A9.01	8/A9.01		17/A9.02	-	P.H.
D08	A	-	3'-0" X 7'-0" X 1-3/4"	HM	PAINT		HM	PAINT	01		11/A9.01	10/A9.01	9/A9.01	17/A9.02		-	
D09	B	-	PR 3'-0" X 7'-0" X 1-3/4"	HM	PAINT		HM	PAINT	05		11/A9.01	10/A9.01	9/A9.01				
D10	C	-	PR 3'-0" X 7'-0" X 1-3/4"	HM	PAINT		HM	PAINT	06		15/A9.01	2/A9.01	8/A9.01		-	-	LOUVERED PANELS DOORS
D11			NOT USED														
D12	D		PR 3'-0" X 7'-0" X 1-3/4"	HM	PAINT		HM	PAINT	07		1/A9.01	2/A9.01	8/A9.01				P.H.
D13	D		PR 3'-0" X 7'-0" X 1-3/4"	HM	PAINT		HM	PAINT	07		1/A9.01	2/A9.01	8/A9.01				P.H.
D14	A		2'-8" X 7'-0" X 1-3/4"	HM	PAINT		HM	PAINT	09		15/A9.01	2/A9.01	8/A9.01				
D15	A		2'-8" X 7'-0" X 1-3/4"	HM	PAINT		HM	PAINT	09		15/A9.01	2/A9.01	8/A9.01				

DOOR TYPES



DOOR GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY EXISTING OPENING SIZE PRIOR TO FABRICATION OF NEW FRAME AND DOOR.
2. SUBMIT DOOR SIGNAGE LIST TO ARCHITECT FOR FINAL APPROVAL PRIOR TO FABRICATION.
3. CONTRACTOR SHALL COORDINATE NEW DOOR SIZES VS NEW DOOR DETAILS AND CONDITION OF OPENING AFTER DEMOLITION.
4. EXIT DOORS: OPENABLE AT ALL TIMES FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
5. PANIC HARDWARE SHALL BE LISTED IN ACCORDANCE WITH UL 305 AND SHALL BE MOUNTED ABOVE 34" TO 44" ABOVE FINISHED FLOOR SURFACE. THE UNLATCHING FORCE SHALL NOT EXCEED 5# APPLIED IN THE DIRECTION OF TRAVEL. PANIC HARDWARE SHALL COMPLY WITH CBC SECTION 1010.1.10
6. ALL INTERIOR AND EXTERIOR DOORS SHALL BE PROVIDED WITH ROOM IDENTIFICATION SIGNAGE.
7. ALL EXIT DOORS SHALL BE PROVIDED WITH TACTILE EXIT SIGNAGE.
8. REPORT ANY DISCREPANCIES TO THE IMMEDIATE ATTENTION OF ARCHITECT.
9. GLAZING IN DOORS, ADJACENT TO DOORS, OR IN WINDOWS PER CBC 2406.4 SHALL BE TEMPERED GLASS.
10. THE LEVER OF LEVER ACTIVATED LATCHES OR LOCKS SHALL BE CURVED WITH A RETURN TO WITHIN ½" OF THE DOOR (TO PREVENT CATCHING ON CLOTHING OF PERSONS DURING EGRESS). CBC 1010.1.9.1
11. NO THUMB LATCHES OR KEYED CYLINDER DEAD BOLTS ARE ALLOWED ON ANY DOORS UNLESS OPERATED BY A SINGLE ACTION WITH A LEVEL FROM THE INSIDE OF THE AREA SERVED. 2022 CBC SEC 1010.1.9.4
12. ALL MEANS OF EGRESS DOORS SHALL COMPLY WITH THE REQUIREMENTS OF CBC SECTION 1010.
13. REFER TO HARDWARE SET SCHEDULES FOR ADDITIONAL REQUIREMENTS.
14. NO DOOR WAY SHALL BE LESS THAN 80" MIN. A.F.F. CLEAR IN HEIGHT.

ABBREVIATIONS

(E)	EXISTING	MN	MINUTE
HC	HOLLOW CORE	(N)	NEW
HDWR	HARDWARE	P.H.	PANIC HARDWARE
HM	HOLLOW METAL	(PR)	PAIR
MAT'L	MATERIAL	TH	THRESHOLD
MC	MINERAL CORE	SC	SOLID CORE WOOD
ALUM	ALUMINUM	WD	WOOD
CR	CARD READER	CLR ANO	CLEAR ANODIZED

AGENCY

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DIV. OF THE STATE ARCHITECT
APP: 03-125472 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/30/2026

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An Employee Owned Corporation

ARCHITECT

LICENSED ARCHITECT
C-26053
Ren. Date 08/31/2027
STATE OF CALIFORNIA

CONSULTANT

Drawn by –
Checked by –

Revisions

No.	Date	Description
–	–	–
–		

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

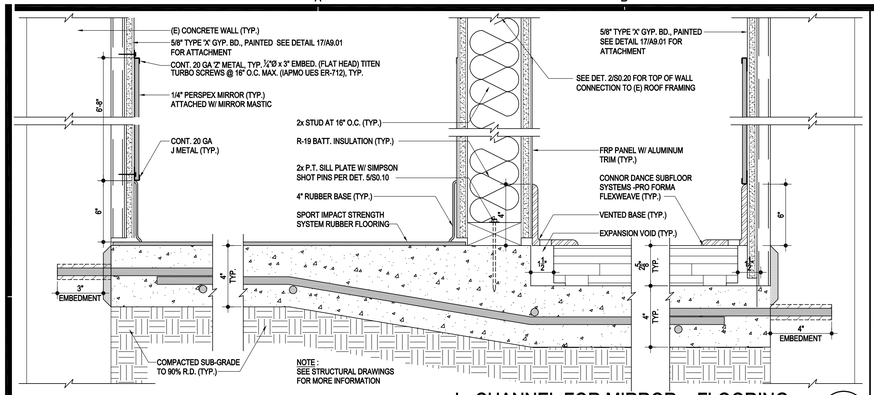
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

FINISH AND DOOR SCHEDULE

Job No. 3139

Date 6.25.2024

A7.01

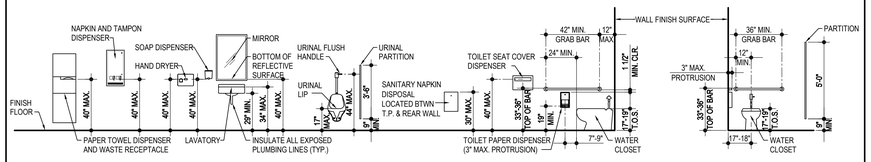


J - CHANNEL FOR MIRROR + FLOORING

SCALE : 3" = 1'-0"

16

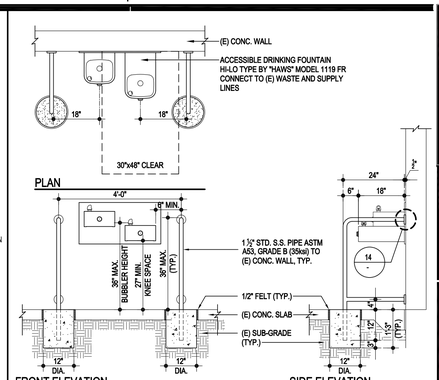
DESCRIPTION	DIMENSION
WATER CLOSET CENTERLINE FROM WALL	17" - 18"
TOILET SEAT HEIGHT	17" - 19"
GRAB BAR HEIGHT (TO THE TOP OF GRIPPING SURFACE)	33" - 36"
TOILET PAPER DISPENSER IN FRONT OF WATER CLOSET	7" - 9"
NAPKIN DISPOSAL HEIGHT (TO OPENING)	19" MIN.
DISPENSER OR MIRROR HEIGHT TO BOTTOM OF GLASS	40" MAX.
LAVATORY / SINK TOP HEIGHT	34" MAX.
LAVATORY / SINK KNEE CLEARANCE	29" MIN.
URINAL LIP HEIGHT	17" MAX.
URINAL FLUSH HANDLE HEIGHT	44" MAX.
DRINKING FOUNTAIN BUBBLER HEIGHT	36" MAX.
DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.
RAMP/ STAIR HANDRAIL HEIGHT	34" - 38"
SHOWER SEAT HEIGHT	17" - 19"
SHOWER HEAD HEIGHT	48"



PLUMBING FIXTURE MOUNTING HEIGHTS

SCALE 1/4" = 1'-0"

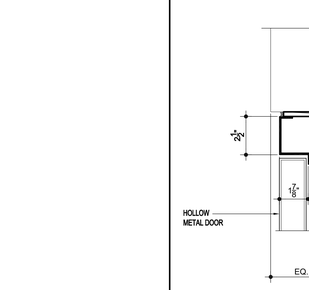
4



ACCESSIBLE DRINKING FOUNTAIN

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

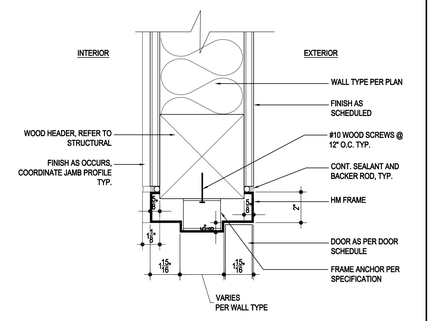
4



EXTERIOR HOLLOW METAL DOOR HEAD @ (E) CONC. WALL

SCALE : 3" = 1'-0"

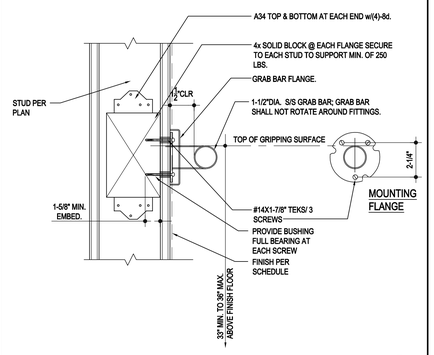
15



INT. HM DOOR HEAD

SCALE : 3" = 1'-0"

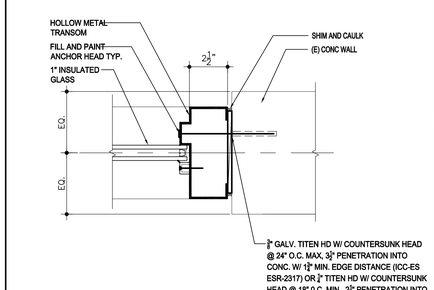
11



GRAB BAR SECTION

SCALE: 3"=1'-0"

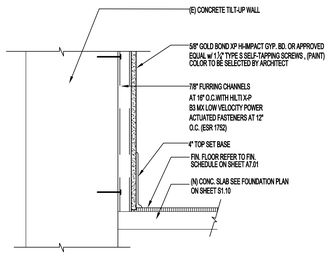
6



EXTERIOR HOLLOW METAL TRANSOM @ (E) CONC. WALL

SCALE : 3" = 1'-0"

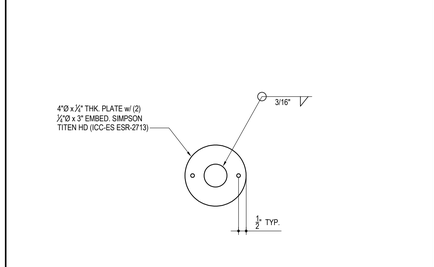
3



WALL FURRING DETAIL

SCALE : 3" = 1'-0"

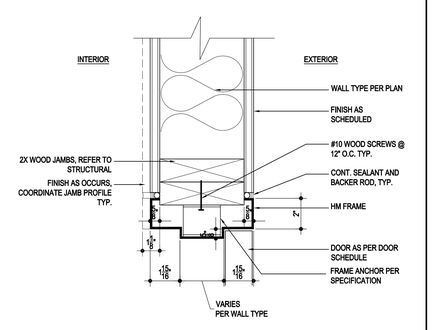
17



GUARDRAIL CONNECTION PLATE DETAIL

SCALE : 3" = 1'-0"

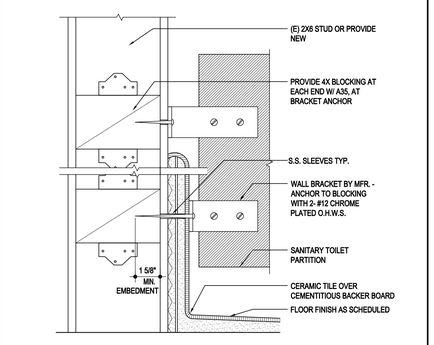
14



INT. HM DOOR JAMB

SCALE : 3" = 1'-0"

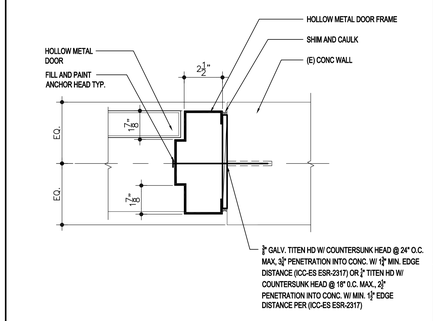
10



TOILET PARTITION MOUNTING

SCALE : 3" = 1'-0"

7



EXTERIOR HOLLOW METAL DOOR JAMB @ (E) CONC. WALL

SCALE : 3" = 1'-0"

2

NOTES:

1. CHARCTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32" (0.794 mm) MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE (SEE NOTE 5)

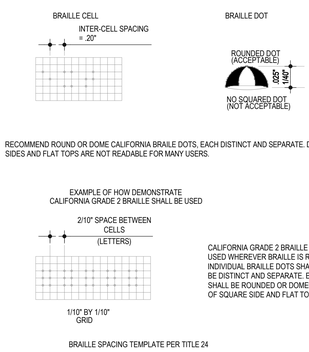
2. CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" (15.9mm) AND MAXIMUM OF 2" (51 mm) HIGH.

3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MIN. AND HAVE A NON-GLARE FINISH. 11B-703.5.1

4. PROPORTIONS: CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". 11B-703.5.4

5. CHARACTER HEIGHT: MINIMUM CHARACTER HEIGHT SHALL COMPLY WITH TABLE 11B-703.5.5 VIEWING DISTANCE SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CHARACTER AND AN OBSTRUCTION PREVENTING FURTHER APPROACH TOWARDS THE SIGN. CHARACTER HEIGHT SHALL BE BASED ON THE UPPERCASE LETTER "I". 11B-703.5.5

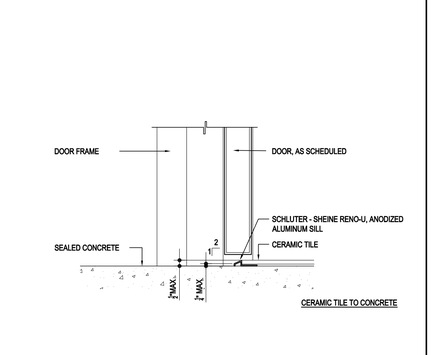
6. BRAILE: CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHERE BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10" (2.54 mm) ON CENTERS IN EACH CELL WITH 2/10" (0.58mm) SPACE BETWEEN CELLS, MEASURED M IN THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MINIMUM OF 1/40" (0.635mm) ABOVE THE BACKGROUND. 11B-703.3



SIGNAGE TEMPLATES

SCALE : 3"=1'-0"

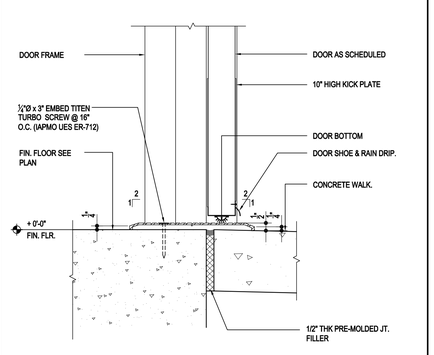
13
A9.01



INT. DOOR SILL

SCALE : 3" = 1'-0"

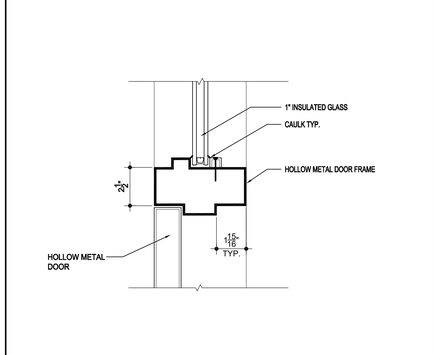
9



EXT. DOOR SILL

SCALE : 3" = 1'-0"

8



EXTERIOR HOLLOW METAL TRANSOM

SCALE : 3" = 1'-0"

1

IDENTIFICATION STAMP
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APP: 03-125472 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/30/2026

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SCOTT MOODY
C-26053
Ren. Date 08/31/2027
STATE OF CALIFORNIA

CONSULTANT

Drawn by —
Checked by —

Revisions

No.	Date	Description
—	—	—
—		

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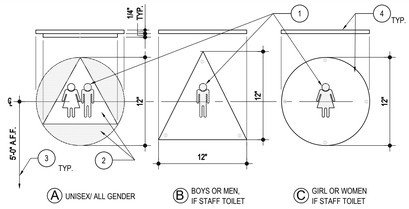
SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH EARLY COLLEGE CAMPUS
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

INTERIOR DETAILS

Job No. 3139

Date 6.25.2024

A9.01

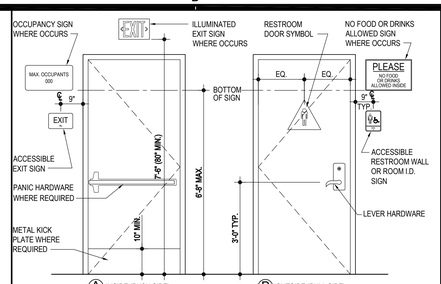


NOTES:

1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32"
2. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MIN. AND HAVE A NON-GLARE FINISH. PER 2022 CBC 11B-703.5.6
3. SIGN MOUNTING: SHALL COMPLY WITH 2022 CBC SECTION 11B-703.5.6 SEE DETAIL 16/- FOR SIGNAGE MOUNTING HEIGHTS.
4. SIGN THICKNESS: SIGN MATERIAL TO BE 1/4" THK. PLASTIC, PROVIDE MECHANICAL MOUNTING W/ VANDAL RESISTANT FASTENERS, EXCEPT WHEN MOUNTED ON GLASS, PROVIDE ADHESIVE AND AN EMPTY BACK PLATE ON THE OTHER SIDE OF THE GLASS. IF SIGNS EXIST ON BOTH SIDES OF GLASS, ALIGN SIGNS SO THAT THE BACK OF ONE SIGN COVERS THE BACK OF THE OTHER.

TOILET RM DOOR SYMBOL

SCALE : 3"=1'-0" — 20 / -

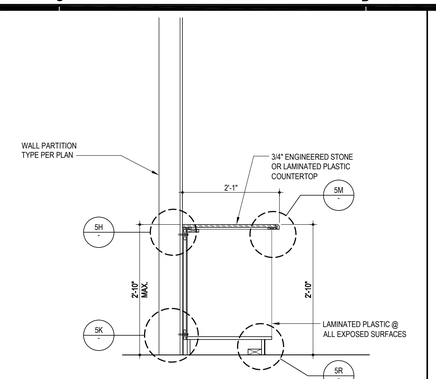


NOTES:

1. SOME DOORS MAY ALREADY HAVE PARTIAL SIGNAGE. PROVIDE ADDITIONAL SIGNAGE TO MEET REQUIREMENTS OF THIS DETAIL.
2. PERMANENT SIGNAGE TO BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. MOUNTING LOCATION MUST ALLOW A PERSON TO APPROACH WITHIN 3" OF SIGN WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING PATH OF ANY DOOR.
3. VISUAL SIGNAGE SHALL COMPLY WITH 11B-703.5 AND TABLE 11B.703.5.5
4. IF ANY SIGNAGE TO BE SUSPENDED FROM CEILING SPACE, THE CLEARANCE BELOW MUST BE 80".

DOOR & WALL SIGN MOUNTING

SCALE : N.T.S. — 16 / -



BASE AND WALL HUNG CABINETS, TYP.

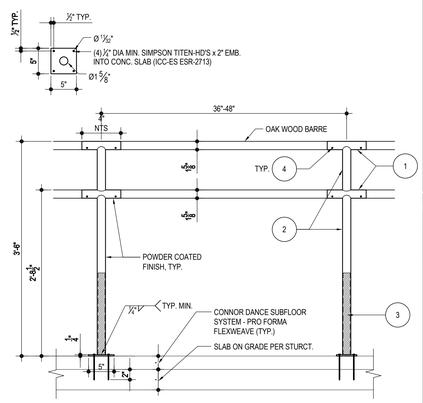
SCALE : 3/4"=1'-0" — 12 / A9.02

1. ALL CASEWORK SHOWN ON SCHEDULE ARE NOT NECESSARILY USED. ONLY THOSE CASEWORK ITEMS CALLED OUT ON INTERIOR ELEVATIONS AND/OR FLOOR PLANS SHALL BE USED.
2. CASEWORK NUMBERS SHOWN ON SCHEDULE ARE THOSE OF THE WOODWORK INSTITUTE MANUAL OF MILLWORK (WI), 11th EDITION-MAY1, 2003. DESIGN NUMBERING SYSTEM.
3. ALL CABINET DIMENSIONS INDICATED IN SCHEDULE ARE NOMINAL OUTSIDE DIMENSIONS.
4. ALL DIMENSIONS NOTED ON SCHEDULE ARE IN INCHES.
5. FILLER STRIPS ARE REQUIRED AT ENDS OF CABINETS WHERE CABINETS ARE ADJACENT TO WALLS.
6. ALL FILLER STRIPS AT ALL TALL AND WALL CABINETS TO HAVE TOP AND BOTTOM RETURNS.
7. HEIGHT DIMENSIONS OF BASE CABINETS INCLUDE FINISHED TOP THICKNESS OF 3/4" & SUBBASE HEIGHT OF 4" UNLESS OTHERWISE NOTED.
8. HEIGHT DIMESIONS OF APRONS INCLUDE FINISHED TOP THICKNESS OF 3/4" UNLESS OTHERWISE NOTED.
9. HEIGHT DIMENSIONS OF TOPS WITH APRONS FROM FINISHED FLOOR LINE SHALL MATCH HEIGHT LINE SHALL MATCH HEIGHT OF ADJACENT BASE CABINETS UNLESS OTHERWISE NOTED.
10. ALL PLAN DIMENSIONS OF CASEWORK ARE CABINET DIMENSIONS ONLY & DO NOT INCLUDE TOPS.
11. PROVIDE FINISHED END PANELS FOR SUPPORT OF COUNTERTOPS AT UNDERCOUNTER EQUIPMENT OR KNEE SPACES WHERE THERE IS NO ADJACENT WALL OR CABINET THAT CAN BE USED FOR SUPPORT.
12. FINISH ALL EXPOSED PORTIONS OF CASEWORK AND COUNTERTOPS.
13. ALL UNITS INCLUDING OPEN UNITS SHALL HAVE CASEWORK MANUFACTURER'S STANDARD CABINET LINER UNLESS OTHERWISE NOTED.
14. ALL TOE SPACES SHALL BE 4" IN HEIGHT AND 2" IN DEPTH AND SHALL RETURN TO WALL WHERE ENDS OF CABINETS ARE EXPOSED.
15. ALL SHELVING SHALL BE ADJUSTABLE UNLESS OTHERWISE NOTED.
16. ALL COUNTERTOPS SHALL BE OF DEPTHS AS SHOWN IN SCHEDULE AND SHALL BE OF MAXIMUM PRACTICAL LENGTHS REQUIRED TO CONFORM TO OVERALL BASE CABINET DIMENSIONS.
17. PROVIDE BACKSPLASH RETURN AT ENDS OF COUNTERTOPS WHERE ADJACENT TO WALL OR OTHER FULL HEIGHT CASEWORK.
18. ALL SINKS, SINK TRIM & ELECTRICAL ITEMS SHALL BE FURNISHED BY OTHER THAN THE CASEWORK MANUFACTURER UNLESS OTHERWISE NOTED.
19. ALL COUNTERTOPS SHALL BE 3/4" TECHSTONE ENGINEERED STONE UNLESS OTHERWISE NOTED.

CASEWORK GENERAL NOTES

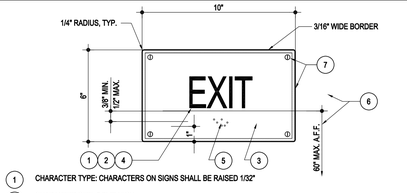
SCALE : N.T.S. — 8 / A9.02

1. **SADDLES:** 1.875 DIAMETER x .120 WALL DOM TUBING (ASTM A513-5 GRADE 70) - LASER CUT AND TIG WELDED (CARBON FIBER). TWO CNC MILLED COUNTERSUNK HOLES FOR #12 STAINLESS STEEL SCREWS SUPPLIED TO CONNECT WOOD BARRES TO SADDLES
2. **STANCHIONS:** 1.625 DIAMETER x .120 WALL DOM TUBING (ASTM A513-5 GRADE 70) - LASER CUT WITH CNC MILLED CONTOUR TAG WELDED (CARBON FILLER) TO SADDLES
3. **INTERNAL SUPPORT:** 1.375 DIAMETER SOLID STEEL ROD 16" LENGTH INSERTED TO THE BASEPLATE AS SHOWN FROM THE BOTTOM FOR ADDITIONAL STIFFNESS AND TO ALLEVIATE ANY FORE - AFT MOVEMENT
4. **BARRE FASTENERS:** (2) x #12 x 1 ½" SS COUNTERSUNK WOOD SCREWS, CONNECT THROUGH THE SADDLE OF THE BRACKET. TYPICAL FOR ALL BARRE CONNECTION



BARRE ACNHORAGE DETAIL

SCALE : 1" = 1'-0" — 3 / A9.02

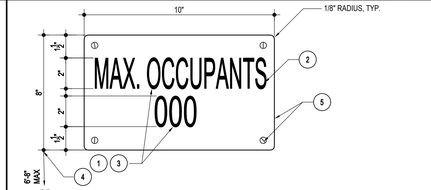


1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32"
2. CHARACTER SIZE: 5/8"-2" HIGH
3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS, AND THEIR BACKGROUND MUST BE 70% MIN. AND HAVE A NON-GLARE FINISH, PER 2022 CBC SECTION 11B-703.5.1
4. PROPORTIONS: SEE NOTES 4 & 5 ON DETAIL 13/A9.01
5. BRAILLE: CALIFORNIA GRADE 2 BRAILLE SHALL BE USED.
6. SIGN MOUNTING: SEE 16/- SHALL COMPLY WITH 2022 CBC SECTION 11B-703.4. PROVIDE BACKER PLATE BEHIND WHEN MOUNTED ON GLASS, OR ROOM ID SIGN AS BACKER PLATE WHEN OCCURS
7. SIGN THICKNESS & MOUNTING: SIGN MATERIAL TO BE 1/8" THICK PLASTIC WITH 1/32" RAISED BORDER. PROVIDE MECHANICAL MOUNTING WITH VANDAL RESISTANT FASTENERS. USE DOUBLE SIDED FOAM TAPE AT GLAZING.

NOTE: 1. FOR MORE INFORMATION SEE NOTES AND SIGNAGE TEMPLATES DETAIL 13/A9.01
2. SIGNS SHALL BE INSTALLED AT THE INTERIOR LATCH SIDE OF ALL DOORS EXITING TO THE EXTERIOR OF THE BUILDING, U.N.O.

EXIT SIGN

SCALE : 3"=1'-0" — 19 / -



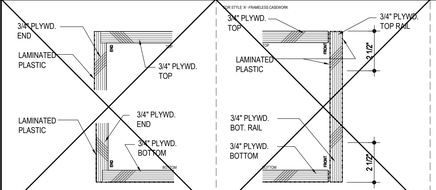
1. CHARACTER TYPE & SIZE: SHALL BE PAINTED 2" MAX. HIGH
2. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MIN. AND HAVE A NON-GLARE FINISH
3. PROPORTIONS: SEE NOTE 4 & 5 PER 13/A9.01
4. SIGN MOUNTING: SEE 16A/A9.02
5. SIGN THICKNESS: SIGN MATERIAL TO BE 1/8" THK PLASTIC AND PROVIDE MECHANICAL MOUNTING W/VANDAL-RESISTANT FASTENERS.
6. MAXIMUM OCCUPANT LOAD: SEE SHEET ANP-2.01 FOR OCCUPANT LOAD NUMBER

NOTE: FOR MORE INFORMATION SEE NOTES AND SIGNAGE TEMPLATES 1/A9.01

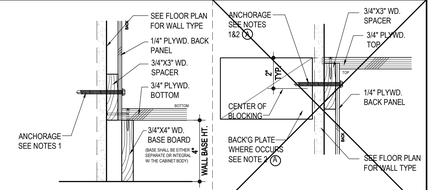
MAXIMUM OCCUPANCY SIGN

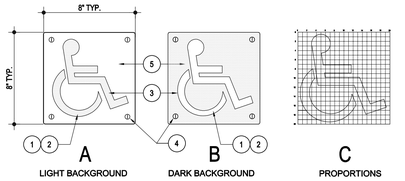
MO

SCALE : 3"=1'-0" — 15 / -



NOTE: FOR MORE INFORMATION SEE NOTES AND SIGNAGE TEMPLATES 1/A9.01



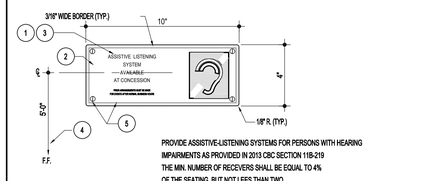


1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE PAINTED
2. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MIN. AND HAVE A NON-GLARE FINISH. PER 2022 CBC SECTION 11B-703.5.1
3. PROPORTIONS: SEE 'C' ABOVE
4. SIGN THICKNESS: SIGN MATERIAL TO BE 1/8" THK. PLASTIC, PROVIDE MECHANICAL MOUNTING W/ VANDAL-RESISTANT FASTENERS. EXCEPT WHEN MOUNTED ON GLASS. PROVIDE ADHESIVE AND AN EMPTY BACK PLATE ON THE OTHER SIDE OF THE GLASS. IF SIGNS EXIST ON BOTH SIDES OF GLASS, ALIGN SIGNS SO THAT THE BACK OF ONE SIGN COVERS THE BACK OF THE OTHER.
5. COLOR: SIGN SHALL HAVE WHITE FIGURE AND BOARDER WITH BLUE BACKGROUND, U.N.O.

NOTE: FOR MORE INFORMATION SEE NOTES AND SIGNAGE TEMPLATES DETAIL 13/A9.01

INTERNATIONAL SYMBOL OF ACCESSIBILITY

SCALE : 3"=1'-0" — 18 / -



PROVIDE ASSISTIVE-LISTENING SYSTEMS FOR PERSONS WITH HEARING IMPAIRMENTS AS PROVIDED IN 2013 CBC SECTION 11B-219 THE MIN. NUMBER OF RECEIVERS SHALL BE EQUAL TO 4% OF THE SEATING, BUT NOT LEES THAN TWO, ALL ASSEMBLY AREAS, CONFERENCE AND MEETING ROOMS. THE SIGN SHALL INCLUDE " ASSISTIVE-LISTENING SYSTEM AVAILABLE"

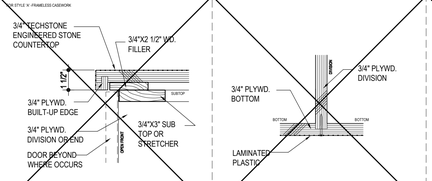
1. CHARACTER TYPE & SIZE: SHALL BE PAINTED 5/8" MIN. & 2" MAX. HIGH
2. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MIN. AND HAVE A NON-GLARE FINISH. 11B-703.5.1
3. PROPORTIONS: SEE NOTE 4 & 5 PER 13/A9.02
4. SIGN MOUNTING: SEE 16A/A9.02
5. SIGN THICKNESS: SIGN MATERIAL TO BE 1/8" THK PLASTIC AND PROVIDE MACHANICAL MOUNTING W/VANDAL-RESISTANT FASTENERS COMPLY W/ ARTICLE 4.30 BCA4.3-0 OF THE ADA

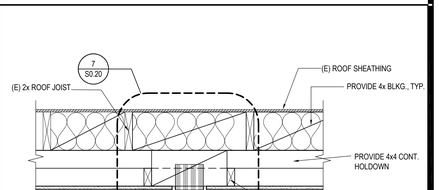
NOTE: FOR MORE INFORMATION SEE NOTES AND SIGNAGE TEMPLATES 1/A9.01

ASSISTIVE LISTENING SIGNAGE

AL

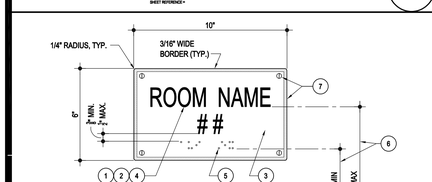
SCALE : N.T.S. — 14 / -





CEILING FRAMING DETAIL

SCALE : 1"=1'-0" — 2 / A9.02

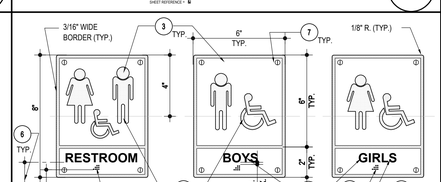


1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32"
2. CHARACTER SIZE: 5/8"-2" HIGH, UPPER CASE
3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MIN. AND HAVE A NON-GLARE FINISH. 11B-703.5.1
4. PROPORTIONS: SEE NOTE 4 & 5 ON DETAIL 13/A9.01
5. BRAILLE: CALIFORNIA GRADE 2 BRAILLE SHALL BE USED
6. SIGN MOUNTING: SEE 16/- AND SHALL COMPLY WITH 11B-703.4. PROVIDE BACKER PLATE BEHIND WHEN MOUNTED ON GLASS, OR EXIT SIGN AS BACKER PLATE WHERE OCCURS
7. SIGN THICKNESS: SIGN MATERIAL TO BE 1/8" THK. PLASTIC, PROVIDE MECHANICAL MOUNTING W/ VANDAL-RESISTANT FASTENERS

NOTE: FOR MORE INFORMATION SEE NOTES AND SIGNAGE TEMPLATES 13/A9.01

ROOM IDENTIFICATION SIGN/ ROOM NUMBERS SIGN (ACCESIBLE)

SCALE : 3" = 1'-0" — 17 / -



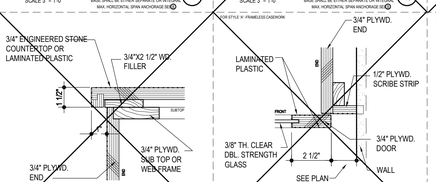
1. PICTOGRAM: PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6" MIN.
2. CHARACTER SIZE: 5/8"-2" HIGH, UPPER CASE
3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND CONSIST OF A WHITE FIGURE ON BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 595C.
4. PROPORTIONS: SEE NOTE 4 & 5 PER 13/A9.01
5. BRAILLE: CALIFORNIA GRADE 2 BRAILLE SHALL BE USED. SEE 1/A9.01
6. SIGN MOUNTING: SEE 16B/A9.02 AND SHALL COMPLY WITH 11B-703.4
7. SIGN THICKNESS: SIGN MATERIAL TO BE 1/8" THK. PLASTIC, PROVIDE MECHANICAL MOUNTING W/VANDAL-RESISTANT FASTENERS.

NOTE: FOR MORE INFORMATION SEE NOTES AND SIGNAGE TEMPLATES 1/A9.01

TOILET ROOM WALL SIGN (ACCESSIBLE)

TWS

SCALE : 3"=1'-0" — 13 / -



	MASONRY BLOCK			WOOD STUDS			METAL STUDS		
WALL HUNG CABINETS	TOP	BOTTOM	MIDDLE	TOP	BOTTOM	MIDDLE	TOP	BOTTOM	MIDDLE
48"X30"X18"	12"	16"	N/A	8"	16"	N/A	8"	16"	N/A
48"X48"X18"	6/6"	12"	N/A	8"	8"	N/A	6"	12"	N/A
48"X30"X13"	16"	16"	N/A	16"	16"	N/A	16"	16"	N/A
48"X48"X13"	16"	16"	N/A	8"	16"	N/A	8"	16"	N/A
BASE CABINETS									
48"X42"X24"	24"	24"	N/A	24"	24"	N/A	24"	24"	N/A
48"X48"X13"	16"	16"	N/A	16"	16"	N/A	16"	16"	N/A
TALL CABINETS									
48"X96"X00"	16"	16"	16"	16"	16"	12"	16"	16"	16/-

MAXIMUM HORIZONTAL SPAN OF ANCHORAGE FASTENER

BASED ON WOOD INSTITUTE MANUAL OF MILLWORK (11th Edition- May1, 2003)

B

1 ANCHORAGE AT CONC. WALL SHALL BE 1/4" Ø x 2-1/2" MIN. EMBED CONC. SCREW (HILTI KH-EZ, ICC-ESR #3027)

2 -

3 1/4" Ø x 3-1/4" CONC. SCREW (HILTI KWIK CON II+, ICC-ESR #5259) SECURES AT TOE TO FLOOR

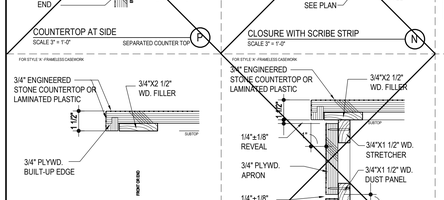
4 #10 x 3" WOOD SCREWS @ CABINET BOTTOM TO VERTICAL 2X BLOCKING

5 #10 x 2-1/2" FLAT HEAD WOOD SCREWS AT KICK PLATE, MARKER BOARDS & TACKLE BOARDS TO FLAT 2X BLOCKING

VERTICAL ANCHORAGE NOTES

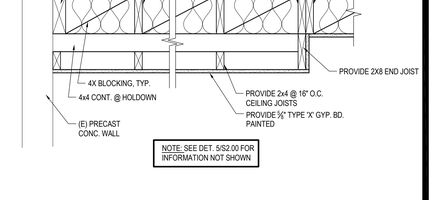
BASED ON WOOD INSTITUTE MANUAL OF MILLWORK (11th Edition- May1, 2003)

A



CASEWORK & ANCHORAGE DETAILS

SCALE : N.T.S. — 5 / A9.02



SOFFIT DETAIL

SCALE : 1"=1'-0" — 1 / A9.02

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125472 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/30/2026

FLEWELLING & MOODY
architecture planning interiors

HEADQUARTERS OFFICE:
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Los Angeles, CA 90041
P 323.543.8300
E-Mail: fm-pasadena@flewelling-moody.com

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Lancaster, California 93534
P 661.949.0771
E-Mail: fm-lancaster@flewelling-moody.com

An Employee Owned Corporation

ARCHITECT

LICENSED ARCHITECT
C-26053
Rev. Date 08/31/2027
STATE OF CALIFORNIA

CONSULTANT

Drawn by —
Checked by —

Revisions

No.	Date	Description
—	—	—
—		

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH EARLY COLLEGE CAMPUS
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

INTERIOR DETAILS

Job No. 3139

Date 6.25.2024

A9.02

ABBREVIATIONS:

AB	ANCHOR BOLT	LD	LONG DIRECTION
ABV	ABOVE	LG	LONG
ADDL	ADDITIONAL	LL	LIVE LOAD
ADHES	ADHESIVE	LLH	LONG LEG HORIZONTAL
ADJ	ADJACENT	LLV	LONG LEG VERTICAL
ALT	ALTERNATE	LOC'S	LOCATIONS
AMP	AMPLITUDE	LONG	LONGITUDINAL
ARCH	ARCHITECT; ARCHITECTURAL	LT WGL	LIGHT WEIGHT
	ARCHITECTURAL	MANUF	MANUFACTURER
AVG	AVERAGE	MAX	MAXIMUM
BF	BOUNDARY FASTENER	MB	MACHINE BOLT
BLDG	BUILDING	MD	METAL DECK
BLKG	BLOCKING	MECH	MECHANICAL
BLW	BELOW	MEP	MECHANICS/PLUMBING
BM	BEAM	MIN	MINIMUM
BN	BOUNDARY NAILING	MISC	MISCELLANEOUS
BOTT	BOTTOM	MTL	METAL
BS	BOTH SIDES	(N)	NEW
BSMT	BASEMENT	NS	NEAR SIDE/NELSON STUD
BTWN	BETWEEN	NW	NORMAL WEIGHT
BYND	BEYOND	OC	ON CENTER
CF	CUBIC FOOT	OD	OUTSIDE DIAMETER
CIP	CAST IN PLACE	OH	OPPOSITE HAND
CJ	CONTROL JOINT/ CEILING JOIST	OMF	ORDINARY MOMENT FRAME
		OPNG	OPENING
CL	CENTERLINE	OPP	OPPOSITE
CLG	CEILING	PERIM	PERIMETER
CLR	CLEAR	PERP	PERPENDICULAR
CMU	CONCRETE MASONRY UNIT	PL	PROPERTY LINE
CNTRSNK	COUNTERSINK/ COUNTERSUNK	PLF	POUNDS PER LINEAR FOOT
		PLT	PLATE
COL	COLUMN	PSF	POUNDS PER SQUARE FOOT
CONC	CONCRETE	PSI	POUNDS PER SQUARE INCH
CONN	CONNECTION		PLATE TRUSS/ PRESSURE TREATED
CONST	CONSTRUCTION		
CONT	CONTINUOUS	REINF	REINFORCEMENT
CONTR	CONTRACTOR	REQ'D	REQUIRED
COORD	COORDINATE	REQ'D	REQUIRED
CVR	COVER	R&R	REMOVE AND REPLACE
DIA	DIAMETER	SCHED	SCHEDULE
DIM	DIMENSION	SD	SHORT DIRECTION
DIR	DIRECTION	SF	SQUARE FOOT
DIST	DISTANCE	SHT	SHEET
DL	DEAD LOAD	SHTG	SHEATHING
DMG	DAMAGE	SIM	SIMILAR
DO	DO OVER	SMRF	SPECIAL MOMENT - RESISTING FRAME
DP	DEEP	SN	SOLE PLATE NAILING
DS	DRAG STRUT	SOG	SLAB ON GRADE
DSA	DEPARTMENT OF STATE ARCHITECTS	SPCNG	SPACING
		SPEC	SPECIFICATION
DTL	DETAIL	SQ	SQUARE
DWG	DRAWING	SS	STAINLESS STEEL
DWL	DOWEL	STAGG	STAGGERED
EE	EXISTING	STD	STANDARD
EA	EACH	STIFF	STIFFENER
EF	EACH FACE/ EDGE FASTENER	STL	STEEL
		STRUCT	STRUCTURAL
ELEC	ELECTRICAL	SW	SHEARWALL
ELEV	ELEVATION	SWO	SHEARWALL WITH OPENING
EMB	EMBEDMENT	SYM	SYMMETRICAL
EN	EDGE NAILING	THK	THICK
ENGR	ENGINEER	THRD	THREADED
EW	EDGE SCREW	T&B	TOP AND BOTTOM
EJ	EXPANSION JOINT	TN	TOE NAILING
EQ	EQUAL	TOF	TOP OF FOOTING
EW	EACH WAY	TOP	TOP OF PODIUM
EXT	EXTERIOR	TOS	TOP OF STEEL
FDN	FOUNDATION	TL	TOP OF LEDGER
FF	FINISH FLOOR/ FIELD FASTENER	TOW	TOP OF WALL
		TRANV	TRANSVERSE
FG	FINISH GRADE	TS	TUBE STEEL
FH	FULL HEIGHT	TYP	TYPICAL
FN	FIELD NAILING	UNO	UNLESS NOTED OTHERWISE
FL	FLOOR	VERT	VERTICAL
FLG	FLANGE	VIF	VERIFY IN FIELD
FOC	FACE OF CONCRETE	WF	WIDE FLANGE BEAM
FOS	FACE OF STUD	W/	WITH
FS	FAR SIDE/ FINISHED SURFACE	W/O	WITHOUT
FT	FOOT/FEET	WT	WEIGHT
FTG	FOOTING	WP	WORKING POINT
GA	GAGE	WWF	WELDED WIRE FABRIC
GALV	GALVANIZED	WWO	WALL W/ OPENING & OR PERFORATED
GRND	GROUND		SHEARWALL
GRD	GRADE		
GT	GIRDER TRUSS		
HNGR	HANGER		
HT	HEIGHT		
HORIZ	HORIZONTAL		
HS	HIGH STRENGTH		
HSS	HOLLOW STRUCTURAL SECTION		
ID	INSIDE DIAMETER		
INFO	INFORMATION		
INT	INTERIOR		
INV	INVERTED		
JT	JACK TRUSS		
KP	KING POST		
KSI	KIPS PER SQUARE INCH		
LBS	POUNDS		

SYMBOLS:

∠	ANGLE
@	AT
℄	CENTERLINE
℄	PLATE/PROPERTY LINE
#	POUNDS
Ø	DIAMETER
//	PARALLEL
℄	BAR DIAMETER

REINFORCED CONCRETE NOTES CONT.:

28. MAXIMUM CHLORIDE ION CONTENT FOR CORROSION PROTECTION OF REINFORCEMENT:

TYPE OF MEMBER	MAXIMUM WATER SOLUBLE CHLORIDE ION (CI⁻) IN CONCRETE, PERCENT BY WEIGHT OF CEMENT
PRESTRESSED CONCRETE	0.06
REINFORCED CONCRETE EXPOSED TO CHLORIDE IN SERVICE	0.15
REINFORCED CONCRETE THAT WILL BE DRY OR PROTECTED FROM MOISTURE IN SERVICE	1.00
OTHER REINFORCED CONCRETE CONSTRUCTION	0.30

29. TOLERANCE FOR REINFORCEMENT AND CONCRETE LOCATION SHALL BE PER ACI 117.
30. TOLERANCE FOR LONGITUDINAL LOCATION OF BEND AND ENDS OF REINFORCEMENT SHALL BE ± 2 IN., EXCEPT THE TOLERANCE SHALL BE ± ½ IN. AT THE DISCONTINUOUS ENDS OF BRACKETS AND CORBELS, AND ± 1 IN. AT THE DISCONTINUOUS ENDS OF OTHER MEMBERS.
31. REINFORCEMENT RESISTING EARTHQUAKE-INDUCED FLEXURAL AND AXIAL FORCES IN FRAME MEMBERS AND IN STRUCTURAL WALL BOUNDARY ELEMENTS SHALL CONFORM TO ASTM A 706. ASTM A 615 GRADE 60 REINFORCEMENT SHALL BE PERMITTED IN THESE MEMBERS IF:
   A. THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED fy BY MORE THAN 18,000 PSI (RETESTS SHALL NOT EXCEED THIS VALUE BY MORE THAN AN ADDITIONAL 3000 PSI): AND
   B. THE RATIO OF THE ACTUAL TENSILE STRENGTH TO THE ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25.THE VALUE OF fy FOR TRANSVERSE REINFORCEMENT INCLUDING SPIRAL REINFORCEMENT SHALL NOT EXCEED 60,000 PSI.
32. CONCRETE FLOOR FLATNESS SHALL BE A MINIMUM OF ¼" - 10 FT. TYP. U.N.O.
33. WHERE CORROSION-RESISTANT REINFORCEMENT (CRR) IS SPECIFIED, USE MMFX2 REBAR ASTM A1035 GRADES 690 AND 830.
34. WELDING OF ELECTRICAL CONDUCTORS TO REINFORCING STEEL IS PROHIBITED WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
35. PERFORMANCE OF SHOTCRETE SHALL BE PER ACI 506.2 SPECIFICATIONS

36. ACI 318 TABLE 26.4.1.1.1(a) - SPECIFICATIONS FOR CEMENTITIOUS MATERIALS.

CEMENTITIOUS MATERIALS	SPECIFICATION
PORTLAND CEMENT	ASTM C150
BLENDED HYDRAULIC CEMENTS	ASTM C595, EXCLUDING TYPE IS (>70) AND TYPE IT (S>70)
EXPANSIVE HYDRAULIC CEMENTS	ASTM C845
HYDRAULIC CEMENT	ASTM C1157
FLY ASH AND NATURAL POZZOLAN	ASTM C618
SLAG CEMENT	ASTM C989
SILICA FUME	ASTM C1240

37. AGGREGATES - COMPLIANCE REQUIREMENTS:
   A. AGGREGATES SHALL CONFORM TO (1) OR (2):
      1. NORMALWEIGHT AGGREGATE: ASTM C33.
      2. LIGHTWEIGHT AGGREGATE: ASTM C330.
   B. AGGREGATES NOT CONFORMING TO ASTM C33 OR ASTM C330 ARE PERMITTED IF THEY HAVE BEEN SHOWN BY TEST OF ACTUAL SERVICE TO PRODUCE CONCRETE OF ADEQUATE STRENGTH AND DURABILITY AND ARE APPROVED BY DSA.
   C. MAXIMUM AGGREGATE SIZE:
      1. FOOTINGS.....1" MAX.
      2. SLAB ON GRADE.....1" MAX.*
      3. GRADE BEAMS.....1" MAX.*
      4. ELEVATED STRUCT. SLABS, BEAMS, FRAME COLUMNS, WALLS.....⅜" MAX.
      5. REMAINDER.....¾" MAX.
      NOTE: * INDICATES VERIFY MINIMUM 1½" BETWEEN BARS.
38. WATER - COMPLIANCE REQUIREMENTS:
   A. MIXING WATER SHALL CONFORM TO ASTM C1602.
   B. MIXING WATER, INCLUDING THAT PORTION OF MIXING WATER CONTRIBUTED IN THE FORM OF FREE MOISTURE ON AGGREGATES, SHALL NOT CONTAIN DELETERIOUS AMOUNTS OF CHLORIDE ION WHEN USED FOR PRESTRESSED CONCRETE, FOR CONCRETE THAT WILL CONTAIN ALUMINUM EMBEDMENTS, OR FOR CONCRETE CAST AGAINST STAY-IN-PLACE GALVANIZED STEEL FORMS.
39. ADMIXTURES - COMPLIANCE REQUIREMENTS:
   A. ADMIXTURES SHALL CONFORM TO (1) THROUGH (4):
      1. WATER REDUCTION AND SETTING TIME MODIFICATION: ASTM C494.
      2. PRODUCING FLOWING CONCRETE: ASTM C1017.
      3. AIR ENTRAINMENT: ASTM C260.
      4. INHIBITING CHLORIDE-INDUCED CORROSION: ASTM C1582.
   B. ADMIXTURES THAT DO NOT CONFORM TO THESE SPECIFICATIONS SHALL BE SUBJECT TO PRIOR REVIEW BY THE LICENSED DESIGN PROFESSIONAL.
   C. CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CHLORIDE FROM SOURCES OTHER THAN IMPURITIES IN ADMIXTURE INGREDIENTS SHALL NOT BE USED IN PRESTRESSED CONCRETE, IN CONCRETE CONTAINING EMBEDDED ALUMINUM, OR IN CONCRETE CAST AGAINST STAY-IN-PLACE GALVANIZED STEEL FORMS.
   D. ADMIXTURES USED IN CONCRETE CONTAINING EXPANSIVE CEMENTS CONFORMING TO ASTM C845 SHALL BE COMPATIBLE WITH THE CEMENT AND PRODUCE NO DELETERIOUS EFFECTS.
40. STEEL FIBER REINFORCEMENT - COMPLIANCE REQUIREMENTS:
   A. STEEL FIBER REINFORCEMENT USED FOR SHEAR RESISTANCE SHALL SATISFY (1) AND (2):
      1. BE DEFORMED AND CONFORM TO ASTM A820.
      2. HAVE A LENGTH-TO-DIAMETER RATIO OF AT LEAST 50 AND NOT EXCEEDING 100.
41. COVER THICKNESS FOR REINFORCED CONCRETE FLOOR OR ROOF SLABS (INCHES)

FIRE-RESISTING RATING (HOURS)									
INTERIOR SPAN					END SPAN				
1 HR	1½ HR	2 HR	3 HR	4 HR	1 HR	1½ HR	2 HR	3 HR	4 HR
¾	¾	¾	¾	¾	¾	¾	1	1¼	1⅝

42. COVER THICKNESS FOR PRE-STRESSED CONCRETE FLOOR OR ROOF SLABS (INCHES)

FIRE-RESISTING RATING (HOURS)									
INTERIOR SPAN					END SPAN				
1 HR	1½ HR	2 HR	3 HR	4 HR	1 HR	1½ HR	2 HR	3 HR	4 HR
¾	¾	¾	¾	¾	1"	1½	1¾	2⅜	2¾

43. MINIMUM COVER FOR MAIN REINFORCING BARS OF REINFORCED CONCRETE BEAMS[b] (APPLICABLE TO ALL TYPES OF STRUCTURAL CONCRETE)

BEAM WIDTH[a] (inches)	FIRE-RESISTING RATING (HOURS)				
	1 HR	1½ HR	2 HR	3 HR	4 HR
5	¾	1	1¼	-	-
7	¾	¾	¾	1¾	3
≥ 10	¾	¾	¾	1	1¾

S1: 1 INCH = 25.4mm 1 FOOT = 304.8mm
a. FOR BEAM WIDTHS BETWEEN THE TABULATED VALUES,THE MINIMUM COVER THICKNESS CAN BE DETERMINED BY DIRECT INTERPOLATION.
b. THE COVER FOR AN INDIVIDUAL REINFORCING BAR IS THE MINIMUM THICKNESS OF CONCRETE BETWEEN THE SURFACE OF THE BAR AND THE FIRE-EXPOSED SURFACE OF THE BEAM. FOR BEAMS IN WHICH SEVERAL BARS ARE USED, THE COVER FOR THE CORNER BARS USED IN THE CALCULATION SHALL BE REDUCED TO ONE-HALF OF THE ACTUAL VALUE. THE COVER FOR AN INDIVIDUAL BAR MUST BE NOT LESS THAN ONE-HALF OF THE VALUE GIVEN IN TABLE 722.2.3 (3) NOR LESS THAN ½ INCH.

44. TABLE 722.2.4 MINIMUM DIMENSION OF CONCRETE COLUMNS (INCHES)

FIRE-RESISTING RATING (HOURS)				
1 HR	1½ HR	2[a] HR	3[a] HR	4[a] HR
8	9	10	12	14

S1: 1 INCH = 25mm
a. THE MINIMUM DIMENSION IS PERMITTED TO BE REDUCED TO 8 INCHES FOR RECTANGULAR COLUMNS WITH TWO PARALLEL SIDES NOT LESS THAN 36 INCHES IN LENGTH.
b. THE MINIMUM DIMENSION IS PERMITTED TO BE REDUCED TO 10 INCHES FOR RECTANGULAR COLUMNS WITH TWO PARALLEL SIDES NOT LESS THAN 36 INCHES IN LENGTH.

45. 722.2.4.2 COVER FOR REINFORCED CONCRETE COLUMNS.
THE MINIMUM THICKNESS OF CONCRETE COVER TO THE MAIN LONGITUDINAL REINFORCEMENT IN COLUMNS, REGARDLESS OF THE TYPE OF AGGREGATE USED IN THE CONCRETE AND THE SPECIFIED COMPRESSIVE STRENGTH OF CONCRETE, f'_c, SHALL BE NOT LESS THAN 1 INCH (25mm) TIMES THE NUMBER OF HOURS OF REQUIRED FIRE RESISTANCE OR 2 INCHES (51mm), WHICHEVER IS LESS.
46. CONTINUOUS BATCH PLANT INSPECTION MAY BE WAIVED PER CBC 1705A.3.3.1, SUBJECT TO APPROVAL BY THE ENFORCEMENT AGENCY:
   A. UNDER EITHER OF THE FOLLOWING CONDITIONS:
      i. THE CONCRETE PLANT COMPLIES FULLY WITH THE REQUIREMENTS OF ASTM C94, SECTIONS 9 AND 10, AND HAS A CURRENT CERTIFICATE FROM THE NATIONAL READY MIXED CONCRETE ASSOCIATION OR ANOTHER AGENCY ACCEPTABLE TO THE ENFORCEMENT AGENCY. THE CERTIFICATION SHALL INDICATE THAT THE PLANT HAS AUTOMATIC BATCHING AND RECORDING CAPABILITIES.
      ii. FOR SINGLE-STORY LIGHT-FRAMED CONSTRUCTION (WITHOUT BASEMENT OR RETAINING WALLS HIGHER THAN 6 FEET IN HEIGHT MEASURED FROM BOTTOM OF FOOTING TO TOP OF WALL) AND ISOLATED FOUNDATIONS SUPPORTING EQUIPMENT ONLY, WHERE DEEP FOUNDATION ELEMENTS ARE NOT USED.
   B. AND THE FOLLOWING REQUIREMENTS SHALL APPLY:
      i. AN APPROVED AGENCY SHALL CHECK THE FIRST BATCH AT THE START OF THE DAY TO VERIFY MATERIALS AND PROPORTIONS CONFORM TO THE APPROVED MIX DESIGN.
      ii. A LICENSED WEIGHMASTER SHALL POSITIVELY IDENTIFY QUANTITY OF MATERIALS AND CERTIFY EACH LOAD BY A BATCH TICKET.
      iii. BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD, SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY THE TRUCK DRIVER WITH LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR OF RECORD SHALL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK, ITS LOAD, AND TIME OF RECEIPT AT THE JOBSITE, AND APPROXIMATE LOCATION OF DEPOSITS IN THE STRUCTURE AND SHALL MAINTAIN A COPY OF THE DAILY RECORD AS REQUIRED BY THE ENFORCEMENT AGENCY.

DSA SUPPLEMENTARY NOTES CONT.:

12. TEST AND INSPECTIONS-CHAPTER 17A AND DSA-103 FORM
   A. ALL TESTS SHALL BE PERFORMED BY A TESTING FACILITY ACCEPTABLE TO THE ARCHITECT AND DSA. THE TESTING FACILITY SHALL BE DIRECTLY EMPLOYED BY THE SCHOOL DISTRICT AND NO OTHER ENTITY OR INDIVIDUAL. SEE TITLE 24, PART 1, § 4-335(b).
   B. TEST REPORTS SHALL BE ADDRESSED TO, AND SENT TO, THE SCHOOL DISTRICT BY THE TESTING FACILITY. COPIES OF ALL TEST REPORTS SHALL BE SENT TO DSA, THE ARCHITECT, THE STRUCTURAL ENGINEER, AND THE PROJECT INSPECTOR BY THE TESTING FACILITY. ALL REPORTS SHALL BE SENT WITHIN 14 DAYS OF THE DATE OF THE TEST. SEE TITLE 24, PART 1, § 4-335(d).
   C. A VERIFIED REPORT, SIGNED BY THE CALIFORNIA LICENSED CIVIL ENGINEER IN CHARGE OF THE TESTING FACILITY WHICH CONDUCTED THE TESTS, SHALL BE SUBMITTED TO DSA UPON COMPLETION OF THE PROJECT. THE VERIFIED REPORT SHALL STATE THAT ALL TESTS AND INSPECTIONS WERE MADE AS REQUIRED BY THE DSA APPROVED DOCUMENTS. IF THE TESTS OR INSPECTIONS INDICATE THAT MATERIALS OR WORKMANSHIP DID NOT MEET THE REQUIREMENTS OF THE DSA APPROVED DOCUMENTS, THE VERIFIED REPORT SHALL LIST ALL NONCOMPLIANT WORK. A COPY OF ALL TEST REPORTS INVOLVING UNRESOLVED NONCOMPLIANT WORK SHALL BE ATTACHED TO THE VERIFIED REPORT. IN THE EVENT THAT NOT ALL REQUIRED TESTS OR INSPECTIONS HAVE BEEN MADE BY THE TESTING FACILITY MAKING THIS VERIFIED REPORT, THOSE TESTS AND INSPECTIONS NOT MADE SHALL BE LISTED ON THE VERIFIED REPORT. SEE TITLE 24, PART 1, § 4-335(e).
13. THE OWNER OR OWNER'S REPRESENTATIVE SHALL REQUEST THE ENGINEER OF RECORD TO PERFORM STRUCTURAL OBSERVATION IN ACCORDANCE WITH THE 'DSA 6-AE' FORM AND THE APPROVED PLANS AT EACH CONSTRUCTION STAGE.

REINFORCED CONCRETE NOTES:

1. CONCRETE MIX DESIGN PROPORTIONS SHALL BE SELECTED BY A REGISTERED CIVIL ENGINEER WITH EXPERIENCE IN MIX DESIGNS. SEE DSA IR 17-13. COPIES OF THE DESIGN SHALL BE SENT TO THE ARCHITECT AND THE ENGINEER. COMPRESSIVE STRENGTH TEST REPORTS SHALL BE SUBMITTED TO DSA AND THE ARCHITECT/ENGINEER. ALL CONCRETE EXCEPT FOUNDATION CONCRETE SHALL CONTAIN A POLYMER BASED WATER REDUCING ADMIXTURE.
2. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE II. AGGREGATE FOR SILICONE CONCRETE SHALL CONFORM TO ASTM C-33. NON-REACTIVE AGGREGATE FOR LIGHTWEIGHT CONCRETE SHALL CONFORM ASTM C-330.
3. ALL REINFORCING BARS, ANCHOR BOLTS, PRE STRESSING TENDONS, AND ALL OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
4. THE MAXIMUM SLUMP SHALL NOT EXCEED 4" +/- 1" FOR FOOTINGS, SLABS ON EARTH, AND MASS CONCRETE, AND 5" +/- 1" FOR OTHER CONCRETE. SLUMP MAY BE INCREASED WHEN CHEMICAL ADMIXTURES ARE USED, PROVIDED THE ADMIXTURE-TREATED CONCRETE HAS THE SAME OR LOWER WATER: CEMENT OR WATER: CEMENTITIOUS MATERIAL RATIO. (ACI 211 TABLE 6.3.1)
5. MINIMUM COMPRESSIVE STRENGTH:
   PROVIDE CONCRETE WITH THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH (f'c) AT 28 DAYS UNLESS NOTED OTHERWISE: MINIMUM 5 SACKS OF CEMENT PER CUBIC YARD) (MAXIMUM WATER/CEMENT RATIO BY WEIGHT SHALL BE .65 FOR BALANCE):

MINIMUM COMPRESSIVE STRENGTH (f'c)			
CONSTRUCTION TYPE	PSI	SPEC. INSP. REQUIRED	AGGREGATE
SLAB ON GRADE	3000 PSI *	NO	NORMAL WT.
NOTE: * 2500 PSI STRENGTH USED FOR DESIGN, SPECIAL INSPECTION NOT REQUIRED.			

6. THE COMPRESSIVE STRENGTH OF EXTERIOR SLABS AND FLAT WORK SHALL BE INCREASED FOR MODERATE AND SEVERE WEATHERING EXPOSURE PER TABLE 1904A.1 OF THE CBC.
7. ALL STRUCTURAL CONCRETE IS TO BE REINFORCED.
8. CONTRACTOR SHALL SUBMIT SLAB CONSTRUCTION JOINT LAYOUT DRAWINGS TO THE ARCHITECT AND ENGINEER FOR REVIEW. THE MAXIMUM SPACING OF CONTROL JOINTS IN SLAB ON GRADE EACH WAY SHALL BE 30X THE SLAB THICKNESS BEFORE 7 DAYS OF CURING. SLABS REQUIRE AT LEAST 7 DAYS CURING (14 DAYS WHERE FLY ASH OR POZOLAN IS USED, AND DEPENDING ON HUMIDITY AND TEMPERATURE) OF ROOM SHALL BE ACCLIMATED TO LONG TERM CLIMATE CONDITIONS PRIOR TO INSTALLATION OF FLOORING. THE SLAB TEMPERATURE SHALL BE WITHIN 5 DEGREES OF DEW POINT DURING CURING. MOISTURE AND HUMIDITY TESTING FOR CURING REQUIREMENTS. MOISTURE AND HUMIDITY TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY HIRED BY THE OWNER, AND TESTS RESULTS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION OF FLOORING.
9. PROJECTING CORNERS OF BEAMS, COLUMNS, WALLS, ETC., SHALL BE FORMED WITH A 3/4" CHAMFER UNLESS DETAILED OTHERWISE.
10. IF EXPOSURE TO SULFATES, OR SPECIAL EXPOSURE CONDITIONS OCCUR, THE CONCRETE STRENGTH, WATER CEMENT RATIOS, AND OTHER PROPERTIES OF THE CONCRETE MIX SHALL BE IN ACCORDANCE WITH ACI 318 SECTION 19.3A.
11. DO NOT POUR CONCRETE WHEN THE TEMPERATURE EXCEEDS 90°F OR 80°F WHEN THE WIND EXCEEDS 12MPH. START CURING AS SOON AS HARD TRAWLING IS DONE. WHEN WIND, TEMPERATURE AND HUMIDITY CONDITIONS CAUSE EARLY DISAPPEARANCE OF BLEED WATER, STEPS SHALL BE TAKEN TO USE A FOG SPRAY. CURING SHALL COMMENCE IMMEDIATELY AFTER FINISHING TRAWLING.
12. CURE CONCRETE ACCORDING TO ACI 308.1 BY ONE OF THE FOLLOWING METHODS:
   A. WET CURING BY USING BURLAP FOR A MINIMUM OF 7 DAYS. BURLAP MUST BE PLACED WITHIN 2 HOURS OF POURING.
   B. CURING COMPOUND MUST CONFORM TO ASTM C309. APPLY UNIFORMLY IN CONTINUOUS OPERATION BY POWER SPRAY OR ROLLER ACCORDING TO MANUFACTURE'S WRITTEN INSTRUCTION.
   C. MOISTURE RETAINING COVER SHOULD CONFORM TO ASTM C171, BE AT LEAST 0.4 MILL. THICK, AND PREFERABLE REINFORCED WITH GLASS FIBER.
13. WHERE AIR ENTRAINED CONCRETE IS SPECIFIED, THE VOLUME OF AIR IN THE MORTAR FRACTION OF CONCRETE MIX SHALL BE 0%- ±1%.
14. ALL REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-615 GRADE 60. AT GRADE BEAMS & CONCRETE FRAMES ALL REINF. SHALL CONFORM TO ASTM A706 REBAR. U.N.O.
15. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
16. REINFORCING STEEL SHALL BE SPLICED WITH CLASS B SPLICES UNLESS NOTED OTHERWISE ON THE DRAWINGS.
17. LOW HYDROGEN ELECTRODES SHALL BE USED WHEREVER REINFORCING STEEL IS WELDED. BARS SHALL BE A706 GR.60 WITH CARBON EQUIVALENT NOT EXCEEDING 0.55 FOR WELD ABILITY.
18. AT THE TIME CONCRETE IS PLACED, REINFORCEMENT SHALL BE FREE FROM MUD, OIL, OR OTHER NONMETALLIC COATINGS THAT DECREASE BOND. WHERE SPECIFIED IN THE DETAILS, EPOXY-COATING OF STEEL REINFORCEMENT IN ACCORDANCE WITH ACI STANDARDS. EXCEPT FOR PRESTRESSING STEEL, STEEL REINFORCEMENT WITH RUST, MILL SCALE, OR A COMBINATION OF BOTH SHALL BE CONSIDERED SATISFACTORY, PROVIDED THE MINIMUM DIMENSIONS (INCLUDING HEIGHT OF DEFORMATIONS) AND WEIGHT OF A HAND-WIRE-BRUSHED TEST SPECIMEN COMPLY WITH APPLICABLE ASTM SPECIFICATIONS.
19. THE MINIMUM CLEAR SPACING BETWEEN PARALLEL BARS IN A LAYER SHALL BE d_b BUT NOT LESS THAN 1 IN. WHERE PARALLEL REINFORCEMENT IS PLACED IN TWO OR MORE LAYERS, BARS IN THE UPPER LAYERS SHALL BE PLACED DIRECTLY ABOVE BARS IN THE BOTTOM LAYER WITH CLEAR DISTANCE BETWEEN LAYERS NOT LESS THAN 1 IN. CLEAR DISTANCE LIMITATION BETWEEN BARS SHALL APPLY ALSO TO THE CLEAR DISTANCE BETWEEN A CONTACT LAP SPLICE AND ADJACENT SPLICES OR BARS.
20. IN SPIRALLY REINFORCED OR TIED REINFORCED COMPRESSION MEMBERS, CLEAR DISTANCE BETWEEN LONGITUDINAL BARS SHALL BE NOT LESS THAN 1.5d_b NOR LESS THAN 1½ IN.
21. IN WALLS AND SLABS OTHER THAN CONCRETE JOIST CONSTRUCTION, PRIMARY FLEXURAL REINFORCEMENT SHALL NOT BE SPACED FARTHER APART THAN THREE TIMES THE WALL OR SLAB THICKNESS, NOR FARTHER APART THAN 18 IN.
22. WHERE CONCRETE MUST BE INSTALLED AND CURED IN COLD WEATHER, THE GENERAL REQUIREMENTS AND SPECIFICATIONS OF ASTM STD C-31 SHALL BE IMPLEMENTED.
23. CAST-IN-PLACE CONCRETE (NON-PRESTRESSED)
   THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:
   A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH..... 3" MIN.
   B. CONCRETE EXPOSED TO EARTH OR WEATHER:
      - NO.6 THROUGH NO.18 BARS.....2" MIN.
      - NO.5 BAR, W31 OR D31 WIRE, AND SMALLER.....1½" MIN.
   C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
      SLABS, WALLS, JOISTS:
      - NO.14 AND NO.18 BARS.....1½" MIN.
      - NO.11 BAR AND SMALLER.....¾" MIN.
      BEAMS, COLUMNS:
      - PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS.....1½" MIN.
      SHELLS, FOLDED PLATE MEMBERS:
      - NO.6 BAR AND LARGER.....¾" MIN.
      - NO.5 BAR, W31 OR D31 WIRE, AND SMALLER.....½" MIN.
24. BUNDLED BARS:
   FOR BUNDLED BARS, MINIMUM CONCRETE COVER SHALL BE EQUAL TO THE EQUIVALENT DIAMETER OF THE BUNDLE, BUT NEED NOT TO BE GREATER THAN 2 IN.; EXCEPT FOR CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH, WHERE MINIMUM COVER SHALL BE 3 IN. GROUPS OF PARALLEL REINFORCING BARS BUNDLED IN CONTACT TO ACT AS A UNIT SHALL BE LIMITED TO FOUR IN ANY ONE BUNDLE. BUNDLED BARS SHALL BE ENCLOSED WITHIN STIRRUPS OR TIES. BARS LARGER THAN NO. 11 SHALL NOT BE BUNDLED IN BEAMS. INDIVIDUAL BARS WITHIN A BUNDLE TERMINATED WITHIN THE SPAN OF FLEXURAL MEMBERS SHALL TERMINATE AT DIFFERENT POINTS WITH AT LEAST 40d_b STAGGER.
25. CORROSIVE ENVIRONMENTS:
   IN CORROSIVE ENVIRONMENTS OR OTHER SEVERE EXPOSURE CONDITIONS, AMOUNT OF CONCRETE PROTECTION SHALL BE SUITABLY INCREASED, AND DENSENESS AND NONPOROSITY OF PROTECTING CONCRETE SHALL BE CONSIDERED, OR OTHER PROTECTION SHALL BE PROVIDED. "COVER" WHERE NOTED ON PLANS AND DETAILS IS NOT A MINIMUM, UNLESS NOTED AS "MIN." THE COVER SHALL BE AS NOTED WITH TOLERANCE.
26. MINIMUM DIAMETER OF BEND:

MINIMUM DIAMETERS OF BEND	
BAR SIZE	MINIMUM DIAMETER
NO.3 THROUGH NO.8	6d_b
NO.9, NO.10, AND NO.11	8d_b
NO.14 AND NO.18	10d_b

27. TOLERANCE FOR d AND MINIMUM CONCRETE COVER IN FLEXURAL MEMBERS, WALLS, AND COMPRESSION MEMBERS SHALL BE AS FOLLOWS:

	TOLERANCE ON d	TOLERANCE ON MINIMUM CONCRETE COVER
d ≤ 8 IN.	±⅜ IN.	-⅜ IN.
d > 8 IN.	±½ IN.	-½ IN.

EXCEPT THAT TOLERANCE FOR THE CLEAR DISTANCE TO FORMED SOFFITS SHALL BE MINUS ¼ IN. AND TOLERANCE FOR COVER SHALL NOT EXCEED MINUS ⅓ THE MINIMUM CONCRETE COVER REQUIRED IN THE DESIGN DRAWINGS AND SPECIFICATIONS.

FOUNDATION NOTES:

1. BUILDING CODE MINIMUM RECOMMENDATION IS USED IN THIS PROJECT PER 2022 CBC CHAPTER 18A SECTION 1806A.2 CLASS 5 MATERIAL.
2. FOOTINGS ARE DESIGNED FOR A BEARING PRESSURE OF 1500 PSF AND NEGLIGIBLE EXPANSION INDEX 21-50. WHERE SLAB-ON-GRADE OCCURS, EXISTING LOOSE SURFACE SOILS AND FILL PLACED WITHIN THE SLAB AREA SHALL BE RECOMPACTED TO A MINIMUM OF 90 PERCENT RELATIVE COMPACTION.
3. THE CONTRACTOR SHALL SUBMIT TO THE CITY OR COUNTY FOUNDATION EXCAVATIONS AND RECOMPACTION REPORTS PRIOR TO PLACING ANY STRUCTURAL AND NON-STRUCTURAL CONCRETE AND REBAR AT THE SUBJECT AREAS.
4. CONTRACTOR SHALL PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM EITHER SURFACE WATER, GROUND WATER OR SEEPAGE.
5. FOOTING AND UTILITY TRENCH BACK FILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS. FLOODING WILL NOT BE PERMITTED.
6. ALL FOOTINGS SHALL BE FOUNDED IN UNDISTURBED NATURAL SOIL PER CODE.
7. IF SOIL IS FOUND TO BE EXPANSIVE, (EXPANSION INDEX < 21) THE FOOTINGS MUST MEET THE FOLLOWING MINIMUM REQUIREMENTS.
   A. DEPTH OF FOOTINGS BELOW THE NATURAL AND FINISH GRADES SHALL NOT BE LESS THAN 27 INCHES FOR

STRUCTURAL STEEL:

1. STRUCTURAL STEEL:
   PROVIDE STRUCTURAL STEEL COMPLYING WITH THE FOLLOWING ASTM STANDARD SPECIFICATIONS, UNLESS NOTED OTHERWISE:
   ANGLES AND CHANNELS..... ASTM A36
   PLATES..... ASTM A36
   PIPES..... ASTM A53, GRADE B (35 KSI)
   HOLLOW STRUCTURAL SECTIONS..... ASTM A500, GRADE B (46 KSI)
   STRUCTURAL STEEL NOTED THUS (50)..... ASTM A572 OR A992, GRADE 50
   ANCHOR BOLTS / THREADED ROD..... ASTM F1554, GRADE 36 U.N.O
   BOLTS (SS)..... ASTM F593
   BOLTS..... ASTM F3125 GR A325
   REINFORCING STEEL..... SEE REINFORCING STEEL SECTION

   WHERE NOTED ON PLANS AS (SS), SHALL BE STAINLESS STEEL, ASTM A709 GRADE 50R. STAINLESS STEEL MECHANICAL TUBING SHALL BE PER ASTM A554 STANDARD SPECIFICATION, AND ALL STAINLESS BARS AND SHAPES SHALL BE PER ASTM A276 STANDARD SPECIFICATIONS.

   FURNISH READILY IDENTIFIABLE STRUCTURAL STEEL COMPLYING WITH CBC 2203A.

2. HIGH STRENGTH BOLTS, NUTS, AND WASHERS:
   A. TYPE: PROVIDE HIGH STRENGTH BOLTS, NUTS, AND WASHERS COMPLYING WITH ASTM F3125, UNLESS NOTED OTHERWISE. HIGH STRENGTH BOLTS SHALL BE BEARING WITH THREADS INCLUDED IN SHEAR PLANE (A325-N), UNLESS NOTED OTHERWISE. PROVIDE SLIP-CRITICAL HIGH STRENGTH BOLTS (A325-SC) FOR SEISMIC MOMENT FRAME BEAM-TO-COLUMN CONNECTIONS, UNLESS NOTED OTHERWISE.
   B. INSTALLATION: INSTALL HIGH STRENGTH BOLTS COMPLYING WITH "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS" AND CBC CHAPTER 22A SECTION 2204A.2.
   C. TIGHTENING: TIGHTEN A325-N BOLTS TO A SNUG TIGHT CONDITION. TIGHTEN A325-SC BOLTS TO AT LEAST THE MINIMUM TENSION USING ONE OF THE FOLLOWING METHODS: TURN-OF-NUT, CALIBRATED WRENCH, OR DIRECT TENSION INDICATOR TIGHTENING. WHERE 'PRETENSIONED' IS SPECIFIED, APPLY TIGHTENING PER A325-SC BUT SURFACE PREPARATION IS NOT REQUIRED.

3. WELDING:
   A. WELDING STANDARD: AWS D1.1 AND AISC 360 (AWS D1.8 AND AISC 341 FOR SEISMIC FORCE RESISTING SYSTEM)
   B. WELDING PROCESS: WELDING PROCEDURES ARE "MEANS AND METHODS" SELECTED BY THE CONTRACTOR FROM AN APPROVED PROCEDURE IN THE AWS D1.1.
   C. PRE-QUALIFIED & NON PRE-QUALIFIED WELDS: WELD ALL PRE-QUALIFIED COMPLYING WITH WELDING STANDARD. WHERE NON PRE-QUALIFIED WELDS ARE SPECIFICALLY INDICATED, QUALIFY BY TESTING AND PROCEDURE QUALIFICATION TEST RECORD COMPLYING WITH WELDING STANDARD.
   D. WELDER CERTIFICATION: WELDERS SHALL BE CERTIFIED AS REQUIRED BY GOVERNING CODE AUTHORITY.
   E. SHOP WELDING INCLUDING ULTRASONIC TESTING OF COMPLETE PENETRATION GROOVE WELDS WELDED IN SHOP: PERFORM ON PREMISES OF AN APPROVED FABRICATOR COMPLYING WITH CBC CHAPTER 17A SECTION 1704A.2.5.1.
   F. MINIMUM FILLET WELD SIZE: PROVIDE MINIMUM FILLET WELD COMPLYING WITH AISC 360 SECTION J2 AND TABLE J2.4 UNLESS A LARGER WELD IS INDICATED ON DRAWINGS.
   G. SHOP AND FIELD WELDING INDICATION ON DRAWINGS: NO ATTEMPT IS MADE TO DIFFERENTIATE BETWEEN SHOP AND FIELD WELDED CONNECTIONS.

4. WELD INSPECTION:
   A. LEAD WELDING INSPECTOR CERTIFICATION: LEAD WELDING INSPECTOR SHALL BE A CERTIFIED WELDING INSPECTOR (CWI) COMPLYING WITH AWS-QC1 STANDARDS, SHALL BE RECOGNIZED BY DSA AS A REGISTERED DEPUTY INSPECTOR FOR STRUCTURAL STEEL WELDING (ICC CERTIFICATION) AND SHALL POSSES A MINIMUM LEVEL OF LIT LEVEL II CERTIFICATION.
   B. OTHER WELDING INSPECTORS: WELDING INSPECTORS PERFORMING VISUAL INSPECTION UNDER THE SUPERVISION OF THE LEAD WELDING INSPECTOR SHALL POSSES ICC CERTIFICATION, AND PERSONS PERFORMING NON-DESTRUCTIVE TESTING SHALL POSSES LIT LEVEL II CERTIFICATION. FOUR NON-CERTIFIED WELDING INSPECTORS MAXIMUM SHALL BE UNDER THE SUPERVISION OF A CWI.
   C. WELD INSPECTIONS: PROVIDE WELD INSPECTIONS AS REQUIRED BY CBC CHAPTER 17A SECTION 1705A.2 AND AISC 360 CHAPTER N (AISC 341 CHAPTER J FOR SEISMIC FORCE RESISTING SYSTEM). SEE STATEMENT OF SPECIAL INSPECTION AND QUALITY ASSURANCE SECTION.

5. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STEEL FOR THE ENGINEERS REVIEW PRIOR TO FABRICATION. ALL STEEL FABRICATION SHALL BE PERFORMED IN A SHOP APPROVED BY DSA.
6. EXCEPT WHERE ENCASED IN CONCRETE, MASONRY, OR SPRAYED-ON FIREPROOFING, ALL STEEL SHALL BE PRIMERED UNLESS NOTED OTHERWISE ON THE DRAWINGS. PAINTING OF STRUCTURAL STEEL MEMBERS SHALL COMPLY WITH THE REQUIREMENTS CONTAINED IN AISC 360.
7. OPENINGS SHALL NOT BE PLACED IN STEEL MEMBERS UNLESS SPECIFICALLY DETAILED. STEEL MEMBERS SHALL BE SHORED WHEN PERMISSIBLE HOLES ARE CUT WITH A TORCH AFTER STEEL IS ERECTED. THE SHORES SHALL REMAIN IN PLACE UNTIL THE STEEL TEMPERATURE HAS RETURNED TO AIR TEMPERATURE.
8. STRUCTURAL STEEL SHALL BE DELIVERED TO THE JOB SITE FREE OF EXCESSIVE RUST, MILL SCALE, GREASE, ETC. AND SHALL BE PRIMED.
9. WHERE WELDING TO EXISTING BEAMS ARE SHOWN, IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE AND PROVIDE ADEQUATE SHORING OF EXISTING BEAMS FOR LOSS OF STRENGTH DUE TO HEAT DURING WELDING.
10. NON-SHRINK GROUTS OR DRY-PACKS SHALL BE 6000 PSI MIN. ASTM C109 W/ SPECIAL INSPECTION REQUIRED TYP. BASE PLATES SHALL BE GROUTED PRIOR TO PLACEMENT OF CONCRETE ON ANY UPPER FLOORS.
11. ALL ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL MEET THE MINIMUM SPECIFICATIONS IN THE AISC CODE OF STANDARD PRACTICE CHAPTER 10 UNLESS NOTED OTHERWISE ON THE ARCHITECTURAL DRAWINGS.
12. WHEN CURVING HSS SECTION, INCREASE WALL THICKNESS AS REQUIRED TO AVOID WALL CURLING.
13. DEMAND CRITICAL WELDS:
    WELDS DESIGNATED AS DEMAND CRITICAL SHALL BE MADE WITH FILLER METALS MEETING THE REQUIREMENTS SPECIFIED IN AWS D1.8M CLAUSE 6.3.

USER NOTE: AWS D1.8/D1.8M REQUIRES THAT ALL SEISMIC FORCE RESISTING SYSTEM WELDS ARE TO BE MADE WITH FILLER METALS CLASSIFIED USING AWS AS STANDARDS THAT ACHIEVE THE FOLLOWING MECHANICAL PROPERTIES.		
PROPERTY	CLASSIFICATION	
	70 KSI (480 MPa)	80 KSI (550 MPa)
YIELD STRENGTH, KSI (MPa)	58 (400) MIN.	68 (470) MIN.
TENSILE STRENGTH, KSI (MPa)	70 (480) MIN.	80 (550) MIN.
ELONGATION, %	22 MIN.	19 MIN.
CVN TOUGHNESS, ft-lb (J)	20 (27) MIN. @ 0°F (-18°C)a.	
a. FILLER METALS CLASSIFIED AS MEETING 20 ft-lb (27 J) MIN. AT A TEMPERATURE LOWER THAN 0°F (-18°C) ALSO MEET THIS REQUIREMENT.		

IN ADDITION TO THE ABOVE REQUIREMENTS, AWS D1.8/D1.8M REQUIRES, UNLESS OTHERWISE EXEMPTED FROM TESTING, THAT ALL DEMAND CRITICAL WELDS ARE TO BE MADE WITH FILLER METALS RECEIVING HEAT INPUT ENVELOPE TESTING THAT ACHIEVE THE FOLLOWING MECHANICAL PROPERTIES IN THE WELD METAL:

MECHANICAL PROPERTIES FOR DEMAND CRITICAL WELDS		
PROPERTY	CLASSIFICATION	
	70 KSI (480 MPa)	80 KSI (550 MPa)
YIELD STRENGTH, KSI (MPa)	58 (400) MIN.	68 (470) MIN.
TENSILE STRENGTH, KSI (MPa)	70 (480) MIN.	80 (550) MIN.
ELONGATION, %	22 MIN.	19 MIN.
CVN TOUGHNESS, ft-lb (J)	40 (54) MIN. @ 70°F (20°C)b,c.	
b. FOR LAST OF +50°F (+10°C). FOR LAST LESS THAN +50°F (+10°C), SEE AWS D1.8/D1.8M SUB-CLAUSE 6.3.6. c. TESTS CONDUCTED IN ACCORDANCE WITH AWS D1.8/D1.8M ANNEX A MEETING 40 ft-lb (54 J) MIN. AT A TEMPERATURE LOWER THAN +70°F (+20°C) ALSO MEET THIS REQUIREMENT.		

14. STRUCTURAL STEEL H-PILES AND STRUCTURAL STEEL SHEET PILING SHALL CONFORM TO THE MATERIAL REQUIREMENTS IN ASTM A6. STEEL PIPE PILES SHALL CONFORM MATERIAL REQUIREMENTS IN ASTM A252. FULLY WELDED STEEL PIPES SHALL BE FABRICATED FROM PLATES THAT CONFORM TO THE MATERIAL REQUIREMENTS IN ASTM A36, ASTM A283, ASTM A572, ASTM A588 OR ASTM A690.
15. ANCHOR ROD HOLES IN BASE PLATES:
    A. ANCHOR ROD HOLES IN BASE PLATES W/O WASHER PLATES, MAXIMUM HOLE SIZE SHALL BE THE ANCHOR DIAMETER +⅛" MAX.
    B. ANCHOR ROD HOLES IN BASE PLATES W/ WASHER PLATES:

MAXIMUM SIZES FOR ANCHOR-ROD HOLES IN BASE PLATES							
ANCHOR ROD DIAMETER, IN.	MAX. HOLE DIAMETER, IN.	MIN. WASHER SIZE, IN.	MIN. WASHER THICKNESS	ANCHOR ROD DIAMETER, IN.	MAX. HOLE DIAMETER, IN.	MIN. WASHER SIZE, IN.	MIN. WASHER THICKNESS
¾	1 5/16	2	¼	1½	2 5/16	3½	½
⅞	1 5/16	2½	5/16	1¾	2¾	4	⅝
1	1 13/16	3	⅜	2	3¼	5	¾
1¼	2 1/16	3	½	2½	3¾	5½	⅞

NOTES:
1. CIRCULAR OR SQUARE WASHERS MEETING THE WASHER SIZE ARE ACCEPTABLE.
2. CLEARANCE MUST BE CONSIDERED WHEN CHOOSING AN APPROPRIATE ANCHOR ROD HOLE LOCATION, NOTHING EFFECTS SUCH AS THE POSITION OF THE ROD IN THE HOLE WITH RESPECT TO THE COLUMN, WELD SIZE AND OTHER INTERFERENCES.
3. WHEN BASE PLATES ARE LESS THAN 1¼ IN. THICK, PUNCHING OF HOLES MAY BE AN ECONOMICAL OPTION. IN THIS CASE, ¾-IN. ANCHOR RODS AND 1 1/16-IN. DIAMETER PUNCHED HOLES MAY BE USED WITH ASTM F844 (USS STANDARD) WASHERS IN PLACE OF FABRICATED PLATE WASHERS.
4. FOR USE AT LFRS MEMBERS, WELDING OF WASHER ŧ TO BASE ŧ REQUIRED. (FILLET WELD = WASHER ŧ THK - 1/16 IN. U.N.O. SUBJECT TO E.O.R. APPROVAL.)

FASTENING SCHEDULE CBC 2022 TABLE 2304A.10.2 CONTINUED

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION	
WOOD STRUCTURAL PANELS (WSP), SUB-FLOOR, ROOF AND INTERIOR WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING[A]			
		EDGES (INCHES)	INTERMEDIATE SUPPORTS (INCHES)
30. ⅜" - ½"	6d COMMON OR DEFORMED (2"x0.113"); OR 2½"x0.113" NAIL (SUB-FLOOR AND WALL)	6	12
	8d COMMON OR DEFORMED (2½"x0.131"x0.281" HEAD) (ROOF) OR RSRS-01 (2⅜"x0.113") NAIL (ROOF)[F]	6"	6"
	1¾" 16 GAGE STAPLE, 7/16" CROWN (SUB-FLOOR AND WALL)	4	8
	2⅜"x0.113"x0.266" HEAD NAIL (ROOF)	3'	3'
	1¾" 16 GAGE STAPLE, 7/16" CROWN (ROOF)	3'	3'
31. 19/32" - ¾"	8d COMMON (2½"x0.131"); OR DEFORMED (2"x0.113") (SUB-FLOOR AND WALL)	6	12
	8d COMMON OE DEFORMED (2½"x0.131"x0.281" HEAD) (ROOF); OR RSRS-01 (2⅜"x0.113") NAIL (ROOF)[F]	6"	6"
	2⅜"x0.113"x0.266" HEAD NAIL; OR 2" 16 GAGE STAPLE, 7/16" CROWN	4	8
32. ⅞" - 1¼"	10d COMMON (3"x0.148"); OR DEFORMED (2½"x0.131"x0.281" HEAD)	6	12
OTHER EXTERIOR WALL SHEATHING			
33. ½" FIBERBOARD SHEATHING[D]	1½"x0.120", GALVANIZED ROOFING NAIL (7/16" HEAD DIAMETER); OR 1¼" 16 GAGE STAPLE WITH 7/16" OR 1" CROWN	3	6
34. 25/32" FIBERBOARD SHEATHING[D]	1¾"x0.120 GALVANIZED ROOFING NAIL (7/16" DIAMETER HEAD); OR 1½" 16 GAGE STAPLE WITH 7/16" OR 1" CROWN	3	6
WOOD STRUCTURAL PANELS, COMBINATION SUB-FLOOR UNDERLAYMENT TO FRAMING			
35. ¾" AND LESS	8d COMMON (2½"x0.131"); OR DEFORMED (2"x0.113"); OR DEFORMED (2"x0.120")	6	12
36. ⅞" - 1"	8d COMMON (2½"x0.131"); OR DEFORMED (2½"x0.131"); OR DEFORMED (2½"x0.120")	6	12
37. 1⅛" - 1¼"	10d COMMON (3"x0.148"); OR DEFORMED (2½"x0.131"); OR DEFORMED (2½"x0.120")	6	12
PANEL SIDING TO FRAMING			
38. ½" OR LESS	6d CORROSION-RESISTANT SIDING (1½"x0.106"); OR 6d CORROSION-RESISTANT CASING (2"x0.099")	6	12
39. ⅝"	8d CORROSION-RESISTANT SIDING (2½"x0.128"); OR 8d CORROSION-RESISTANT CASING (2½"x0.113")	6	12
INTERIOR PANELING			
40. ¼"	4d CASING (1½"x0.080"); OR 4d FINISH (1½"x0.072")	6	12
41. ⅜"	6d CASING (2"x0.099"); OR 6d FINISH (2"x0.092") (PANEL SUPPORTS AT 24")	6	12

FOR SI: 1 INCH.=25.4 MM.

A. NAILS SPACED AT 6 INCHES AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANELS AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS. REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
B. SPACING SHALL BE 6 INCHES ON CENTER ON THE EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16 INCHES (20 INCHES IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
C. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.
D. RSRS-01 IS A ROOF SHEATHING RING SHANK NAIL MEETING THE SPECIFICATIONS IN ASTM F1667.
E. TABULATED FASTENER REQUIREMENTS APPLY WHERE THE ULTIMATE DESIGN WIND SPEED IS LESS THAN 140 MPH. FOR WOOD STRUCTURAL PANEL ROOF SHEATHING ATTACHED TO GABLE-END ROOF FRAMING AND TO INTERMEDIATE SUPPORTS WITHIN 48 INCHES OF ROOF EDGES AND RIDGES, NAILS SHALL BE SPACED AT 4 INCHES ON CENTER WHERE THE ULTIMATE DESIGN WIND SPEED IS GREATER THAN 130 MPH IN EXPOSURE B OR GREATER THAN 110 MPH IN EXPOSURE C. SPACING EXCEEDING 6 INCHES ON CENTER AT THE INTERMEDIATE SUPPORTS SHALL BE PERMITTED WHERE THE FASTENING IS DESIGNED PER THE AWC NDS.
F. FASTENING IS ONLY PERMITTED WHERE THE ULTIMATE DESIGN WIND SPEED IS LESS THAN OR EQUAL TO 110 MPH.
G. NAILS AND STAPLES ARE CARBON STEEL MEETING THE SPECIFICATIONS OF ASTM F1667. CONNECTIONS USING NAILS AND STAPLES OF OTHER MATERIALS, SUCH AS STAINLESS STEEL, SHALL BE DESIGNED BY ACCEPTABLE ENGINEERING PRACTICE OR APPROVED UNDER SECTION 104.11.

FASTENING SCHEDULE CBC 2022 TABLE 2304A.10.2 CONTINUED

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
ROOF CONT.		
5. COLLAR TIE TO RAFTER	(3)10d COMMON (3"x0.148"); OR (4)10d BOX (3"x0.128"); OR (4)3"x0.131" NAILS; OR (4)3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL
6. RAFTER OR ROOF TRUSS TO TOP PLATE (SEE SECTION 2808.7.5, TABLE 2308.7.5)	(3)10d COMMON (3"x0.148"); OR (3)16d BOX (3½"x0.135"); OR (4)10d BOX (3"x0.128"); OR (4)3"x0.131" NAILS; OR (4)3" 14 GAGE STAPLES, 7/16" CROWN	2 TOENAILS ON ONE SIDE AND 1 TOENAIL ON OPPOSITE SIDE OF RAFTER OR TRUSS[C]
7. ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTER TO 2-INCH RIDGE BEAM	(2)16d COMMON (3½"x0.162"); OR (3)16d BOX (3½"x0.135"); OR (3)10d COMMON (3"x0.128"); OR (3)3"x0.131" NAILS; OR (3)3" 14 GAGE STAPLES, 7/16" CROWN	ENDNAIL
	(3)10d COMMON (3½"x0.148"); OR (4)16d COMMON (3½"x0.135"); OR (4)10d BOX (3"x0.128"); OR (4)3"x0.131" NAILS; OR (4)3" 14 GAGE STAPLES, 7/16" CROWN	TOENAIL
WALL		
8. STUD TO STUD (NOT AT BRACED WALL PANELS)	16d COMMON (3½"x0.162")	24"OC FACE NAIL
	10d BOX (3"x0.128"); OR 3"x0.131" NAIL; OR (3)3" 14 GAGE STAPLE, 7/16" CROWN	16"OC FACE NAIL
9. STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16d COMMON (3½"x0.162"); OR	16"OC FACE NAIL
	16d BOX (3½"x0.135"); OR 3"x0.131" NAILS; OR (3)3" 14 GAGE STAPLE, 7/16" CROWN	12"OC FACE NAIL
10. BUILT-UP HEADER (2" TO 2" HEADER)	16d COMMON (3½"x0.162")	16"OC EACH EDGE, FACE NAIL
	16d BOX (3½"x0.135")	12"OC EACH EDGE, FACE NAIL
11. CONTINUOUS HEADER TO STUD	(4)8d COMMON (2½"x0.131"); OR (4)10d COMMON (3"x0.128"); OR (5)8d BOX (2½"x0.113")	TOENAIL
12. TOP PLATE TO TOP PLATE	16d COMMON (3½"x0.162"); OR	16"OC FACE NAIL
	10d BOX (3"x0.128"); OR 3"x0.131" NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN	12"OC FACE NAIL
13. TOP PLATE TO TOP PLATE, AT END JOINTS	(8)16d COMMON (3½"x0.162"); OR (12)16d BOX (3½"x0.135");OR (12)10d BOX (3"x0.128"); OR (12)3"x0.131" NAILS; OR (12)3" 14 GAGE STAPLES, 7/16" CROWN	EACH SIDE OF END JOINT, FACE NAIL (MIN. 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
14. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16d COMMON (3½"x0.162"); OR	16"OC FACE NAIL
	16d (3½"x0.135"); OR 3"x0.131" NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN	12"OC FACE NAIL
15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACED WALL PANELS	(2)16d COMMON (3½"x0.162"); OR (3)16d BOX (3½"x0.135"); OR (4)3"x0.131" NAILS; OR (4)3" 14 GAGE STAPLES, 7/16" CROWN	16"OC FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	(3)16d BOX (3½"x0.135"); OR (4)8d COMMON (2½"x0.131"); OR (4)10d BOX (3"x0.128"); OR (4)3"x0.131" NAILS; OR (4)8d BOX (2½"x0.113"); OR (4)3" 14 GAGE STAPLES, 7/16"CROWN	TOENAIL
	(2)16d COMMON (3½"x0.162"); OR (3)16d BOX (3½"x0.135"); OR (3)10d BOX (3"x0.128"); OR (3)3"x0.131" NAILS; OR (3)3" 14 GAGE STAPLES, 7/16" CROWN	END NAIL
17. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	(2)16d COMMON (3½"x0.162"); OR (3)10d BOX (3"x0.128"); OR (3)3"x0.131" NAILS; OR (3)3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL
18. 1" BRACE TO EACH STUD AND PLATE	(3)8d BOX (2½"x0.113");OR (2)8d COMMON (2½"x0.131"); OR (2)10d BOX (3"x0.128"); OR (2)3"x0.131" NAILS; OR (2)3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL
19. 1"x6" SHEATHING TO EACH BEARING	(3)8d BOX (2½"x0.113"); OR (2)8d COMMON (2½"x0.131"); OR (2)10d BOX (3"x0.128"); OR (2)1¾" 16 GAGE STAPLES, 1" CROWN	FACE NAIL
20. 1"x8" AND WIDER SHEATHING TO EACH BEARING	(3)8d COMMON (2½"x0.131"); OR (3)8d BOX (2½"x0.113"); OR (3)10d BOX (3"x0.128"); OR (3)1¾" 16 GAGE STAPLES, 1" CROWN	FACE NAIL
	WIDER THAN 1"x8" (3)8d COMMON (2½"x0.131"); OR (4)8d BOX (2½"x0.113"); OR (3)10d BOX (3"x0.128"); OR (4)1¾" 16 GAGE STAPLES, 1" CROWN	
FLOOR		
21. JOIST TO SILL, TOP PLATE, OR GIRDER	(4)8d BOX (2½"x0.113"); OR (3)8d COMMON (2½"x0.131"); OR FLOOR (3)10d BOX (3"x0.128"); OR (3)3"x0.131" NAILS; OR (3)3" 14 GAGE STAPLES, 7/16" CROWN	TOENAIL
	8d BOX (2½"x0.113")	4"OC TOENAIL
22. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW	8d COMMON (2½"x0.131"); OR 10d BOX (3"x0.128"); OR 3"x0.131" NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN	6"OC TOENAIL
23. 1"x6" SUB-FLOOR OR LESS TO EACH JOIST	(3)8d BOX (2½"x0.113"); OR (2)8d COMMON (2½"x0.131"); OR (3)10d BOX (3"x0.128"); OR (2)1¾" 16 GAGE STAPLES, 1" CROWN	FACE NAIL
24. 2" SUB-FLOOR TO JOIST OR GIRDER	(3)16d BOX (3½"x0.135"); OR (2)16d COMMON (3½"x0.162")	BLIND AND FACE NAIL
25. 2" PLANKS (PLANK & BEAM-FLOOR & ROOF)	(3)16d BOX (3½"x0.135"); OR (2)16d COMMON (3½"x0.162")	EACH BEARING, FACE NAIL
26. BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	20d COMMON (4"x0.192")	32"OC FACE NAIL AT TOP AND BOTT. STAGG. ON OPPOSITE SIDES
	10d COMMON (3"x0.128"); OR 3"x0.131" NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN	24"OC FACE NAIL AT TOP AND BOTT. STAGG. ON OPPOSITE SIDES
	AND: (2)20d COMMON (4"x0.192"); OR (3)10d BOX (3"x0.128"); OR (3)3"x0.131" NAILS; OR (3)3" 14 GAGE STAPLES, 7/16" CROWN	ENDS AND AT EACH SPLICE, FACE NAIL
27. LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	(3)16d COMMON (3½"x0.162"); OR (4)16d BOX (3½"x0.135");OR (4)10d BOX (3"x0.128"); OR (4)3"x0.131" NAILS; OR (4)3" 14 GAGE STAPLES, 7/16" CROWN	EACH JOIST OR RAFTER, FACE NAIL
28. JOIST TO BAND JOIST OR RIM JOIST	(3)16d COMMON (3½"x0.162"); OR (4)10d BOX (3"x0.128"); OR (4)3"x0.131" NAILS; OR (4)3" 14 GAGE STAPLES, 7/16" CROWN	END NAIL
29. BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS	(2)8d COMMON (2½"x0.131"); OR (2)10d BOX (3"x0.128"); OR (2)3"x0.131" NAILS; OR (2)3" 14 GAGE STAPLES, 7/16" CROWN	EACH END, TOENAIL

FRAMING LUMBER:

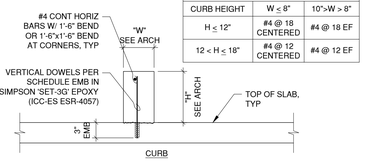
1. ALL FRAMING LUMBER SHALL BE COAST REGION DOUGLAS FIR-LARCH & SHALL CONFORM TO THE FOLLOWING GRADES AS ESTABLISHED BY THE W.C.L.I.B. SAWN LUMBER, MACHINE STRESS-RATED OR MACHINE-EVALUATED LUMBER, SHALL BE IDENTIFIED BY THE GRADE MARK OF LUMBER GRADING OR INSPECTION AGENCY THAT HAS BEEN APPROVED BY AN ACCREDITATION BODY THAT COMPLIES WITH DOC PS 20 OR EQUIVALENT.:
   A. STUDS: (EXCEPT AS NOTED ON DRAWINGS)
      1. 2"-4" THICK, 2"-4" WIDE, INTERIOR, NON-BEARING PARTITIONS, STANDARD GRADE.
      2. 2"-4" THICK, NO.2 OR BETTER DF.
   B. JOISTS AND RAFTERS: (EXCEPT AS NOTED ON DRAWINGS)
      1. 2"-4" THICK, 2"-4" WIDE, NO.2
      2. 2"-4" THICK, 5" AND WIDER, NO.2
   C. BEAMS AND HEADERS: (EXCEPT AS NOTED ON DRAWINGS)
      1. 2"-4" THICK, 5" AND WIDER, NO.1
      2. 5" AND THICKER, NO.1
   D. POSTS: ALL POSTS NO.1
   E. TOP PLATES: 2 X 4 NO.1 2 X 6 NO.2 OR BETTER
   F. BLOCKING: STANDARD GRADE
   G. SILL PLATES:
      1. EXTERIOR AND SHEAR WALLS 2 X OR 3X NO.2 PRESSURE TREATED
      2. INTERIOR PARTITIONS 2 X 4 STANDARD GRADE, OR BETTER.
   H. MICRO-LAM LVL, OR PARALLAM PSL MAY BE USED IN LIU OF ANY GRADES LISTED ABOVE.
2. ALL FRAMING ANCHORS, CLIPS, STRAPS, HANGERS, ETC., SHALL BE MANUFACTURED BY SIMPSON COMPANY OR I.C.C. APPROVED EQUAL WITH 5% TOLERANCE.
3. HY-TEK FASTENERS MAY BE USED AS AN APPROVED EQUAL IN LIEU OF COMMON, SHORT, BOX, AND SINKER NAILS AS APPROVED IN ICC-ES ESR-2648 (LARR 25959 IN THE CITY OF LOS ANGELES).
4. ALL BEAM AND JOIST HANGERS SHALL BE THE FULL DEPTH OF THE MEMBER IT IS SUPPORTING.
5. ALL BEAM AND JOIST METAL HANGERS SHALL HAVE ALL HOLES FILLED PER MANUF. TO ACHIEVE MAX CAPACITY.
6. TYPICAL ROOF SHEATHING SHALL BE 5 PLY. WITH THICKNESS & PANEL INDEX LUMBER AS INDICATED ON THE DRAWINGS. STAGGER SHEETS 4'-0". FACE GRAIN SHALL BE PERPENDICULAR TO THE SUPPORTS. PLYWOOD SHALL BE NAILED AS INDICATED ON THE DRAWINGS.
7. MAXIMUM UNFRAMED HOLES IN SHEATHING SHALL BE 3" IN DIAMETER. WHERE POSSIBLE, LOCATE HOLE IN WALL MIDWAY BETWEEN THE JOISTS. WHERE SQUARE HOLES ARE CUT, DO NOT RUN SAW BEYOND THE CORNER OF THE OPENING.
8. ALL WOOD SHEATHING SHALL BE APA RATED EXPOSURE 1 UNO. WHERE PLYWOOD IS PERMANENTLY EXPOSED TO WEATHER, OR USED IN DECKS, THE EXPOSURE RATING SHALL BE EXTERIOR. WOOD STRUCTURAL PANELS SHALL CONFORM TO THE REQUIREMENTS FOR THEIR TYPE IN DOC PS 1 OR PS 2. EACH PANEL OR MEMBER SHALL BE IDENTIFIED FOR GRADE AND GLUE TYPE BY THE TRADEMARKS OF AN APPROVED TESTING AND GRADING AGENCY. DIAPHRAGMS STRUCTURAL I U.N.O.
9. WHERE ROOF AND/OR FLOOR SHEATHING IS NAILED AT 2 1/2" O.C., ALL FRAMING INCLUDING BLOCKING SHALL BE 3X NOMINAL.
10. ALL EDGE NAILING ON SHEAR WALL PLY. SHALL MAINTAIN A 3/8" MIN. CLR. DISTANCE @ ALL BOUNDARY NAILING ON ROOF OR FLOOR PLYWOOD SHEATHING SHALL MAINTAIN A 3/8" MIN. CLR.
11. WHERE SPECIFIED, PRESERVATIVE TREATMENT BY PRESSURE PROCESS: AWPA U1: USE CATEGORY UC2 FOR INTERIOR CONSTRUCTION NOT IN CONTACT WITH GROUND, USE CATEGORY UC3B FOR EXTERIOR CONSTRUCTION NOT IN CONTACT WITH GROUND, AND USE CATEGORY UC4A FOR ITEMS IN CONTACT WITH GROUND. PRESERVATIVE CHEMICALS: ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION AND CONTAINING NO ARSENIC OR CHROMIUM. DO NOT USE INORGANIC BORON (SBX) FOR SILL PLATES EXCEPT FOR INTERIOR DRY ENVIRONMENTS.
12. FASTENERS IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. FASTENERS OTHER THAN NAIL, TIMBER RIVETS, WOOD SCREWS AND LAG SCREWS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC-COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH ASTM B 695, CLASS 55 MINIMUM. CONNECTORS THAT ARE USED IN EXTERIOR APPLICATIONS AND IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL HAVE COATING TYPES AND WEIGHTS IN ACCORDANCE WITH THE TREATED WOOD OR CONNECTOR MANUFACTURER'S RECOMMENDATIONS. IN THE ABSENCE OF MANUFACTURER'S RECOMMENDATIONS, A MINIMUM OF ASTM A653, TYPE G185 ZINC-COATED GALVANIZED STEEL, OR EQUIVALENT, SHALL BE USED. EXCEPTION: PLAIN CARBON STEEL FASTENERS IN SBX/DOT AND ZINC BORATE PRESERVATIVE-TREATED WOOD IN AN INTERIOR, DRY ENVIRONMENT SHALL BE PERMITED.
13. MARINE ENVIRONMENT CONDITIONS:
   A. EXPOSED FASTENERS/CONNECTORS REQUIRED TO BE TYPE 316 STAINLESS STEEL THROUGHOUT (I.E. SDS SCREWS, HFX CONNECTORS).
   B. MACHINE BOLTS AND LAG SCREWS REQUIRED TO BE HOT DIPPED GALVANIZED WHER

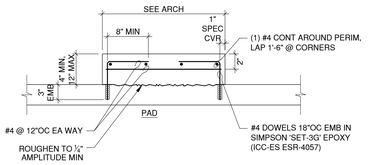
CURBS & PADS

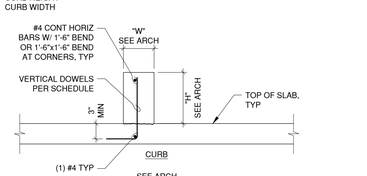
SCALE:1"=1'-0" 9

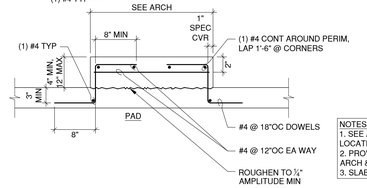
VERTICAL DOWEL SCHEDULE		
CURB HEIGHT	W ≤ 8"	10">W > 8"
H ≤ 12"	#4 @ 18 CENTERED	#4 @ 18 EF
12 < H ≤ 18"	#4 @ 12 CENTERED	#4 @ 12 EF

LEGEND:
H = CURB HEIGHT
W = CURB WIDTH









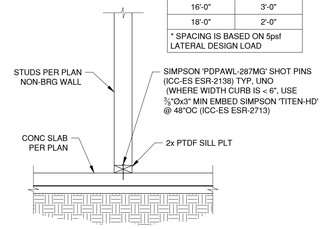
NOTES:
1. SEE ARCH & MECH FOR SIZE & LOCATION OF CURBS
2. PROVIDE INSERTS AS REQ'D BY ARCH & MECH DWGS.
3. SLAB REINF NOT SHOWN

PARTITION WALL

SCALE:1"=1'-0" 5

MAX WALL HEIGHT	SHOT PIN SPACING*
14'-0"	4'-0"
16'-0"	3'-0"
18'-0"	2'-0"

* SPACING IS BASED ON 5psf LATERAL DESIGN LOAD



REINFORCING DETAIL

SCALE:1"=1'-0" 1

REBAR END ANCHORS SHALL HAVE AN EVALUATION REPORT DEMONSTRATING COMPLIANCE WITH THE CURRENT ACCEPTABLE CRITERIA UNDER THE REFERENCED DESIGN CODE.

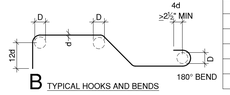
BAR DEVELOPMENT & LAP SPLICE LENGTH SCHEDULE (INCHES)	
BAR SIZE	f'c=3000 PSI MIN
#3	28
#4	37
#5	47
#6	56
#7	81
#8	93
#9	105

MINIMUM BEND DIA.
D=6d FOR #3 THRU #8
D=8d FOR #9
MINIMUM INSIDE

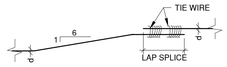
STIRRUP & TIES MIN BEND DIAMETERS
D = 4d FOR #3 THRU #5
D = 6d FOR #6 THRU #8

NOTE:
135° BENDS REQUIRED @ ROUND HOOP TIES SPLICES.

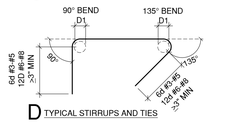
A TYPICAL REBAR END ANCHOR



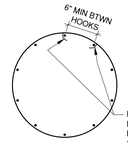
B TYPICAL HOOKS AND BENDS



C OFFSETS AND SPLICES



D TYPICAL STIRRUPS AND TIES



E TYPICAL HOOP TIES

-

SCALE:1"=1'-0" 14

-

SCALE:1"=1'-0" 15

-

SCALE:1"=1'-0" 16

TRENCHING DETAIL

SCALE:1"=1'-0" 10

NOTE
THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING, SHEATHING OR OTHERWISE MAINTAINING THE SIDES OF THE EXCAVATION FROM CAVE-INS UNTIL ALL BACKFILL IS COMPLETED PER SPECIFICATIONS.

DEPRESSED SLAB

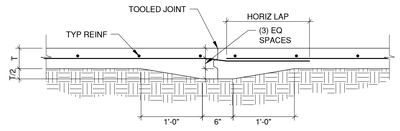
SCALE:1"=1'-0" 11

-

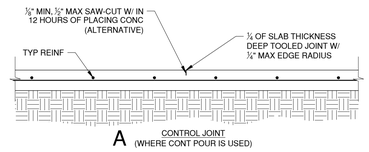
SCALE:1"=1'-0" 12

SLAB JOINTS

SCALE:1"=1'-0" 6



B CONSTRUCTION JOINT



A CONTROL JOINT
(WHERE CONT POUR IS USED)

TRENCHING REPAIR IN (E) SLAB

SCALE:1"=1'-0" 7

ANCHOR BOLT DETAILS

SCALE:1"=1'-0" 8

CHEMICAL ANCHOR MIN. DISTANCES				
ROD DIAMETER	DRILL BIT DIAMETER	MIN EMBEDMENT	MIN EDGE DISTANCE	MIN SPACING
X 25.4 FOR mm				
⅜" Ø	½"	2⅜"	2⅜"	7"
½" Ø	⅝"	2¾"	3⅛"	8½"
⅝" Ø	¾"	3⅛"	3⅜"	10"
¾" Ø	⅞"	3½"	5⅛"	13½"
⅞" Ø	1"	3¾"	5⅞"	15½"
1" Ø	1⅛"	4"	6¾"	18"
1¼" Ø	1⅜"	5"	8⅞"	22½"

NOTES:
1. MINIMUM DIMENSIONS SHOWN. REFER TO PLANS FOR ACTUAL DIMENSION REQUIREMENTS.
2. BOLTS SHALL BE PLACED NO CLOSER THAN (12) BOLT DIA APART OR (6) BOLT DIA FROM END OF CONCRETE OR MASONRY.
3. INCREASE EMBEDMENT BY 2" FOR AB's IN THE TOP OF WALLS, COLUMNS, AND PILASTERS.
4. DOUBLE THE EMBED FOR ANCHOR BOLTS PLACED VERTICAL INTO FOUNDATIONS

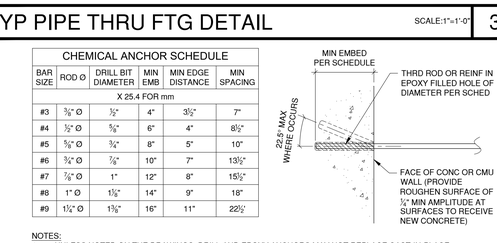
A

B

CAST-IN-PLACE ANCHOR BOLT MIN DISTANCES			
BOLT DIAMETER	MIN EMBEDMENT	MIN EDGE DISTANCE	MIN SPACING
x 25.4 FOR mm			
⅜" Ø	3"	2⅝"	4½"
½" Ø	4"	3"	6"
⅝" Ø	4½"	3¾"	7½"
¾" Ø	5"	4½"	9"
¾" Ø	6"	5¼"	10½"
1" Ø	7"	6"	12"
1½" Ø	8"	6¾"	13½"
1¼" Ø	9"	7½"	15"

TYP PIPE THRU FTG DETAIL

SCALE:1"=1'-0" 3



ELEVATION

SECTION

ELEVATION

REFERENCE TITLE 24, 1606A.11

SECTION

PIPE @ EDGE OF FTG PLAN VIEW

TYP REINF DRILL & EPOXY DETAIL

SCALE:1"=1'-0" 4

CHEMICAL ANCHOR SCHEDULE					
BAR SIZE	ROD Ø	DRILL BIT DIAMETER	MIN EMB	MIN EDGE DISTANCE	MIN SPACING
X 25.4 FOR mm					
#3	⅜" Ø	½"	4"	3½"	7"
#4	½" Ø	⅝"	6"	4"	8½"
#5	⅝" Ø	¾"	8"	5"	10"
#6	¾" Ø	⅞"	10"	7"	13½"
#7	⅞" Ø	1"	12"	8"	15½"
#8	1" Ø	1⅛"	14"	9"	18"
#9	1¼" Ø	1⅜"	16"	11"	22½"

NOTES:
1. UNLESS NOTED ON THE DRAWINGS, DRILL AND EPOXY ANCHORS MAY NOT REPLACE CAST-IN-PLACE ANCHORS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.
2. ALL WORK SHALL BE PERFORMED UNDER CONTINUOUS INSPECTION BY THE INSPECTOR OF RECORD.
3. EPOXY GROUT: SIMPSON 'SET-3G' (CONCRETE ICC-ES ESR-4057) (MASONRY ICC-ES ESR-4844) OR APPROVED EQUAL.
4. PROVIDE HOLE DEPTH AND DIAMETER PER SCHEDULE UNLESS NOTED OTHERWISE ON PLANS.
   A. AVOID ANY EXISTING REINFORCING STEEL - RECOMMEND CONTRACTOR ALLOW FOR 5% RE-DRILLING. ALL ABANDONED HOLES SHALL BE GROUTED.
   B. WHEN INSTALLING CHEMICAL ANCHOR INTO PRE-STRESSED CONCRETE WITH PRE- OR POST-TENSIONED TENDONS, LOCATE TENDONS BY NON-DESTRUCTIVE METHODS PRIOR TO CHEMICAL ANCHOR INSTALLATION. TAKE GREAT CARE AND CAUTION TO AVOID DAMAGING EXISTING TENDONS AND PROVIDE A MINIMUM OF 2 INCHES CLEAR BETWEEN DRILLED HOLE AND EXISTING TENDONS. ANY COSTS TO REPAIR OR REPLACE TENDONS SHALL BE BORNE BY THE CONTRACTOR.
5. CLEAN HOLE PER MANUFACTURER'S SPECIFICATIONS BY VACUUM OR AIR PRESSURE. HOLE TO BE DRY PRIOR TO EPOXY APPLICATION.
6. PLACE EPOXY PER MANUFACTURER'S SPECIFICATIONS, WITH CAULKING GUN OR SIMILAR, FILLING HOLE FROM THE BOTTOM TO APPROXIMATELY 2/3 FULL.
7. PLACE ROD OR REBAR, ENSURING EPOXY RISES TO THE SURFACE AND FILLS THE HOLE COMPLETELY. PROVIDE SUPPORT FOR ROD OR REBAR UNTIL EPOXY CURES.

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Ren. Date 08/31/2027
STATE OF CALIFORNIA

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Checked by sokheanc@rgseinc.com

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

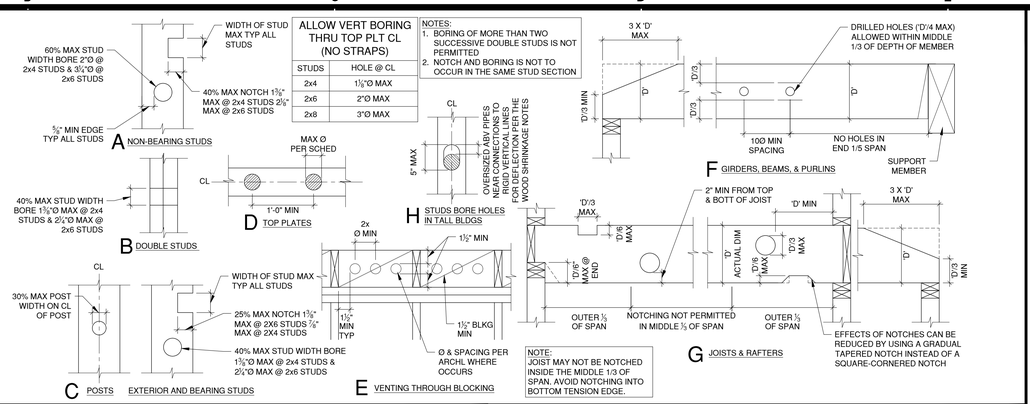
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

TYPICAL DETAILS

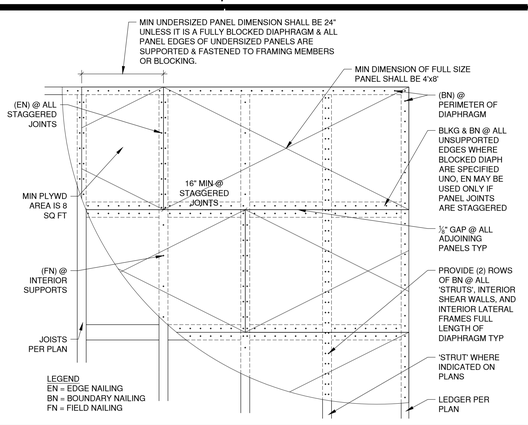
Job No. 24351

Date 6.25.2024

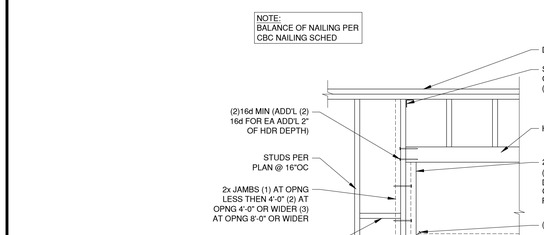
S0.10



ALLOWABLE NOTCHING & HOLES — SCALE:1"=1'-0" — 5

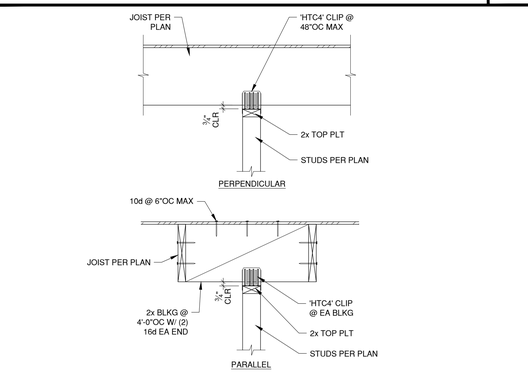


ROOF SHTG DETAIL — SCALE:1"=1'-0" — 1

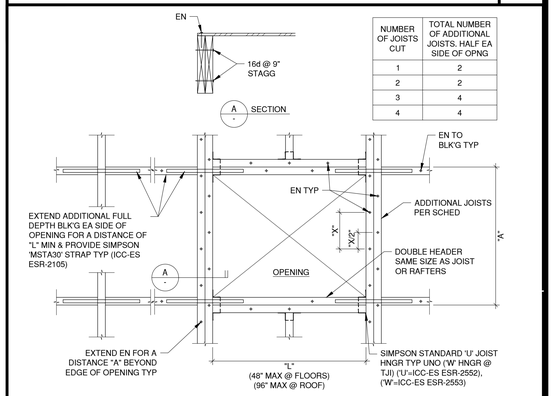


SHEATHING REPLACEMENT OR INFILL — SCALE:1"=1'-0" — 6

PARTITION BRACING AT CEILING — SCALE:1"=1'-0" — 7



PARTITION BRACING — SCALE:1"=1'-0" — 2



TYP FLR OR ROOF OPENING PLAN — SCALE:1"=1'-0" — 3

HEADER SCHEDULE

MAX OPENING WIDTH	HEADER DEPTH	
	BEARING UNO	NON-BEARING
4'-0"	4	4
6'-0"	8	6
8'-0"	10	8
10'-0"	12	10
12'-0"	14	12

TYP PARTITION WALL FRAMING — SCALE:1"=1'-0" — 4

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Checked by: sokheanc@rgseinc.com

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT
ROSAMOND HIGH EARLY COLLEGE CAMPUS
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

TYPICAL DETAILS

Job No. 24351

Date 6.25.2024

S0.20

FOUNDATION NOTES:

1. C1 -INDICATES COLUMN MARK, FOR SIZE SEE SCHEDULE SHEET S1.00.
2. SEE ARCH. FOR ALL DIMENSIONS & CONDITIONS NOT SHOWN.
3. TYPICAL CONCRETE SLAB ON GRADE SHALL BE 4" THICK WITH #4 @ 18"OC EA WAY MID HT OVER 4" OF SAND W/ 10MIL VISQUEEN VAPOR BARRIER MID HT SLAB ON GRADE. IN AREAS WITH VEHICLE, OR HEAVY STORAGE LOADS SHALL BE 5" THICK W/ #4 @ 18"OC EA. WAY MID HT. THE MAXIMUM SPACING OF THE CONTROL JOINTS SHALL BE 30X THE SLAB THICKNESS BEFORE 7 DAYS OF CURING.
4. CJ INDICATES CONCRETE SLAB CRACK CONTROL JOINT. REFER TO DETAIL 6/S0.10
5. ALL FOOTINGS ARE CENTERED UNDER COLUMNS AND BEARING WALLS UNLESS NOTED OTHERWISE ON PLANS AND DETAILS.
6. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF ALL WALL OPENINGS, SLOPED AND DEPRESSED SLABS, CONCRETE CURBS, ADDITIONAL EMBEDDED ITEMS NOT SHOWN ON THESE DRAWINGS. VERIFY ALL BUILDING DIMENSIONS, SLOPES AND DEPRESSED SLAB DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE BEGINNING WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR RESOLUTION.
7. SEE GENERAL NOTES AND SPECIFICATIONS FOR SPECIAL GRADING REQUIREMENTS UNDER FOOTINGS.
8. COLUMNS ARE ONE SIZE FROM FOUNDATION TO ROOF UNLESS OTHERWISE NOTED ON PLANS
9. ALL DIMENSIONS SHOWN ARE TO EDGE OF CONCRETE SLAB, CENTER OF INTERIOR WALL, OR CENTERLINE OF POST OR COLUMN. REFER TO ARCHITECTURAL PLANS FOR OTHER DIMENSIONS.
10. ALL COLUMNS ARE CENTERED ON THE GRID LINES UNLESS NOTED OTHERWISE.
11. ALL CONCRETE FLOORS TO BE FLAT UNO.
12. SURFACE WATER SHALL DRAIN AWAY FROM THE BUILDING. COORDINATE WITH CIVIL & LANDSCAPE.
13. CONTRACTOR SHALL COORDINATE ALL UNDERGROUND UTILITY WORK TO AVOID CONFLICTS WITH FOOTINGS.
14. CONTRACTOR SHALL SUBMIT PROPOSED FIRE RISER, CONDUIT, PIPING SLEEVE LOCATION FOR ENGINEER'S REVIEW PRIOR TO FOOTING CONSTRUCTION.
15. SEE ARCH'L AND CIVIL DRAWINGS FOR LOCATION OF MOISTURE BARRIER, CURBS, TRASH ENCLOSURES, EXTERIOR SLABS, DRAINAGE, RAMPS, WALKS, ETC.
16. FOR FOOTINGS OUTSIDE THE BUILDING ENVELOPE, COORDINATE TOP OF FOOTING ELEVATION WITH THE STRUCTURAL DETAILS AND WITH CIVIL AND LANDSCAPE.
17. BUILDING SLAB IS NOT DESIGNED TO SUPPORT CRANE LOADS, CONCRETE MIXING TRUCKS, OR OTHER SPECIFIC CONSTRUCTION LOADING. IF SUCH LOADS OCCUR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR UPGRADING THE SLAB THICKNESS AND PROVIDING REINFORCING AS REQUIRED. ANY DAMAGE CAUSED TO THE SLAB SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE PER THE OWNER'S REQUEST.
18. EXCAVATIONS SHALL BE MADE IN COMPLIANCE WITH CAL/OSHA REGULATIONS.

FRAMING NOTES:

1. PROVIDE 2X TRIMMER @ 7¼ OR LESS HEADER (2) 2X TRIMMER @ 9½ OR GREATER & 4X POST TRIMMER @ LVL/GLB HEADER PER DETAIL 4/S0.20
2. ALL INTERIOR WALLS TO BE 2x4 MIN @ 16"OC STUDS UNO.
3. FOR TYPICAL STUD WALL FRAMING SEE 4/S0.20
4. PROVIDE MULTIPLE STUDS UNDER MULTIPLE JOISTS.
5. "C" = INDICATES CAMBER BETWEEN SUPPORTS ONLY @ GLUED, LAMINATED BEAMS. (i.e. NO CAMBER @ CANTILEVERS)
6. PROVIDE TWO ROWS BOUNDARY NAILING ALONG ALL STRUT MEMBERS, INTERIOR SHEAR WALLS, AND INTERIOR LATERAL FRAMES UNO.
7. CONTRACTOR SHALL COORDINATE ALL MECH'L UNIT LOCATIONS, SIZES, OPENINGS, ETC, WITH MECH'L DRAWINGS.
8. SEE ARCH FOR ALL DIMENSIONS & CONDITIONS NOT SHOWN.
9. TYPICAL ROOF SHEATHING SHALL BE 15/32" APA RATED SHEATHING, STURD-I-FLOOR, OR SINGLE FLOOR (EXPOSURE-1) (32/16) W/ 10d COMMON NAILS @ 6"OC BOUNDARIES, 6"OC OTHER PANEL EDGES, AND 12"OC FIELD NAILING. (UN-BLOCKED, T&G @ UNSUPPORTED PANEL EDGES OR WITH PANEL SHT'G CLIPS (ALLOW SHEAR 190 PLF))
10. UNLESS SPECIFICALLY NOTED ON THE PLANS, FRAMING SHALL NOT BE CUT OR RELOCATED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER. CONTRACTOR SHALL OBTAIN APPROVAL OF JOIST MFR SHOP DRAWINGS FROM BOTH MECHANICAL AND STRUCTURAL ENGINEERS PRIOR TO ERECTION OF JOIST FRAMING.
11. ALL MULTIPLE JOISTS SHALL HAVE EACH JOIST NAILED TO THE ADJACENT ONE WITH 16d @ 16"OC STAGGERED.
12. ALL MULTIPLE STUDS SHALL HAVE EACH STUD NAILED TO THE ADJACENT ONE WITH SOLE PLATE NAILING PER SHEAR WALL SCHEDULE, 10d @ 9"OC STAGGERED MINIMUM.
13. FOR HEADER SIZES NOT NOTED, REFER TO TYPICAL DETAIL 4/S0.20
14. ALL ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL MEET THE MINIMUM SPECIFICATIONS IN THE AISC CODE OF STANDARD PRACTICE CHAPTER 10 UNLESS NOTED OTHERWISE ON THE ARCHITECTURAL DRAWINGS.

LEGEND:

- (E) FOOTING
- (N) SLAB ON GRADE PER FDN NOTE 3 ON S1.00 & 6/S0.10
- (E) CONC WALL
- (E) WD STUD WALL
- (N) WD STUD WALL PER 4/S0.20

STEEL COLUMN SCHEDULE					
MARK	COLUMN SIZE	BASE PLATE SIZE	ANCHOR BOLTS	BOLT LAYOUT	REMARKS
C1	3"Ø STD PIPE	4" X10" X ⅜" THK	(2) ¾"Ø X 9" EMB THRD RODS IN SIMPSON 'SET-3G' EPOXY	G	
NOTES: AT BASE PLATES W/ < (4) AB'S ADD TEMP BRACING FOR LATERAL STABILITY IN (2) DIRECTIONS.					



G

"X" = 1½" FOR AB < ⅞"Ø
1¾ x Ø FOR AB > ⅞"Ø
TYP UNO

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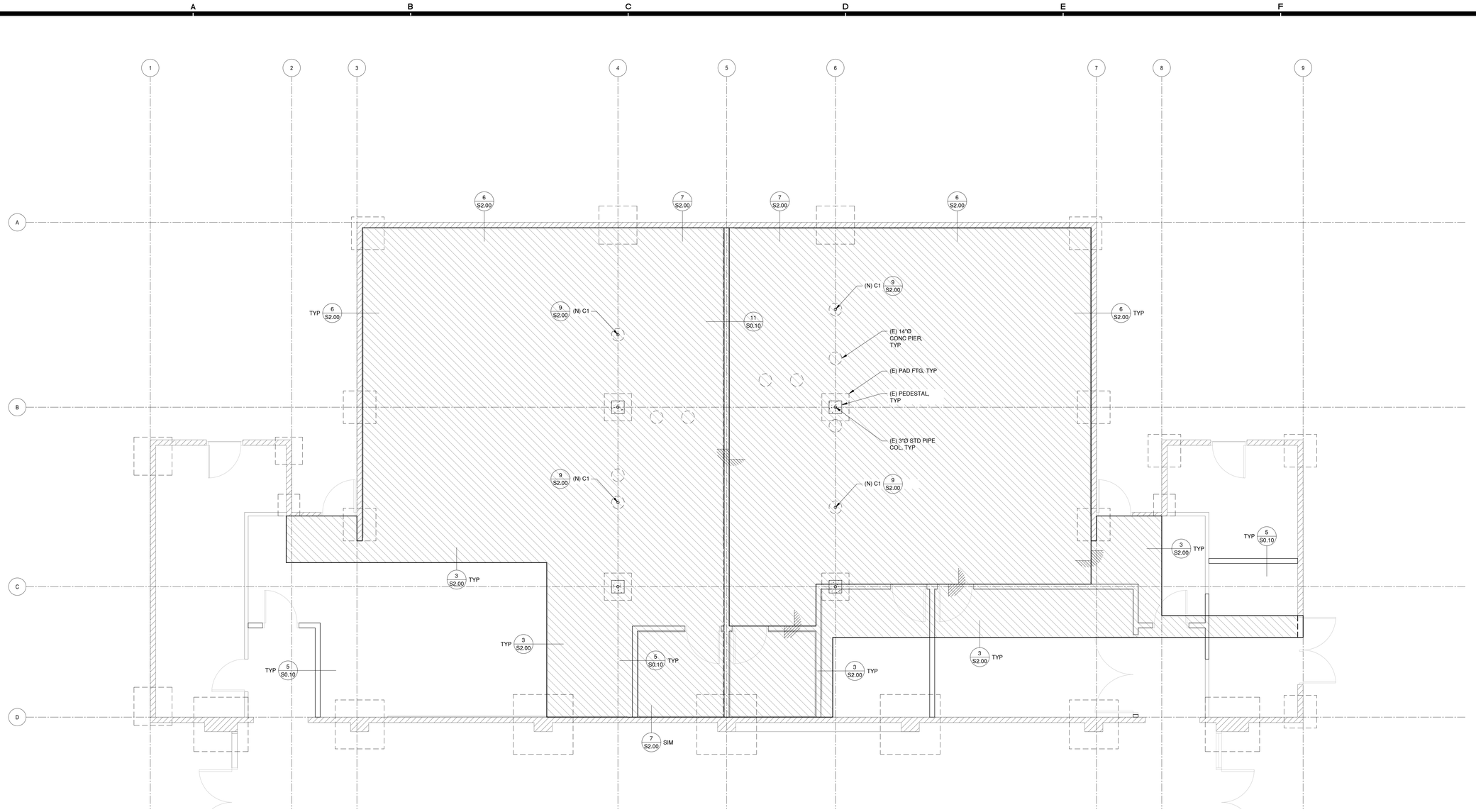
SCHEDULES, TABLES, LEGENDS, AND PLAN NOTES

Job No. 24351

Date 6.25.2024

S1.00



PARTIAL FOUNDATION PLAN

0 2' 4' 8'

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

N

LEGEND:

- (E) FOOTING
- (N) SLAB ON GRADE PER FDN NOTE 3 ON S1.00 & 6 S0.10
- (E) CONC WALL
- (E) WD STUD WALL
- (N) WD STUD WALL PER 4 S0.20

NOTE:
SEE SHEETS S1.00 FOR ALL OTHER SCHEDULES, TABLES, LEGENDS, AND PLAN NOTES NOT SHOWN ON THIS SHEET.

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

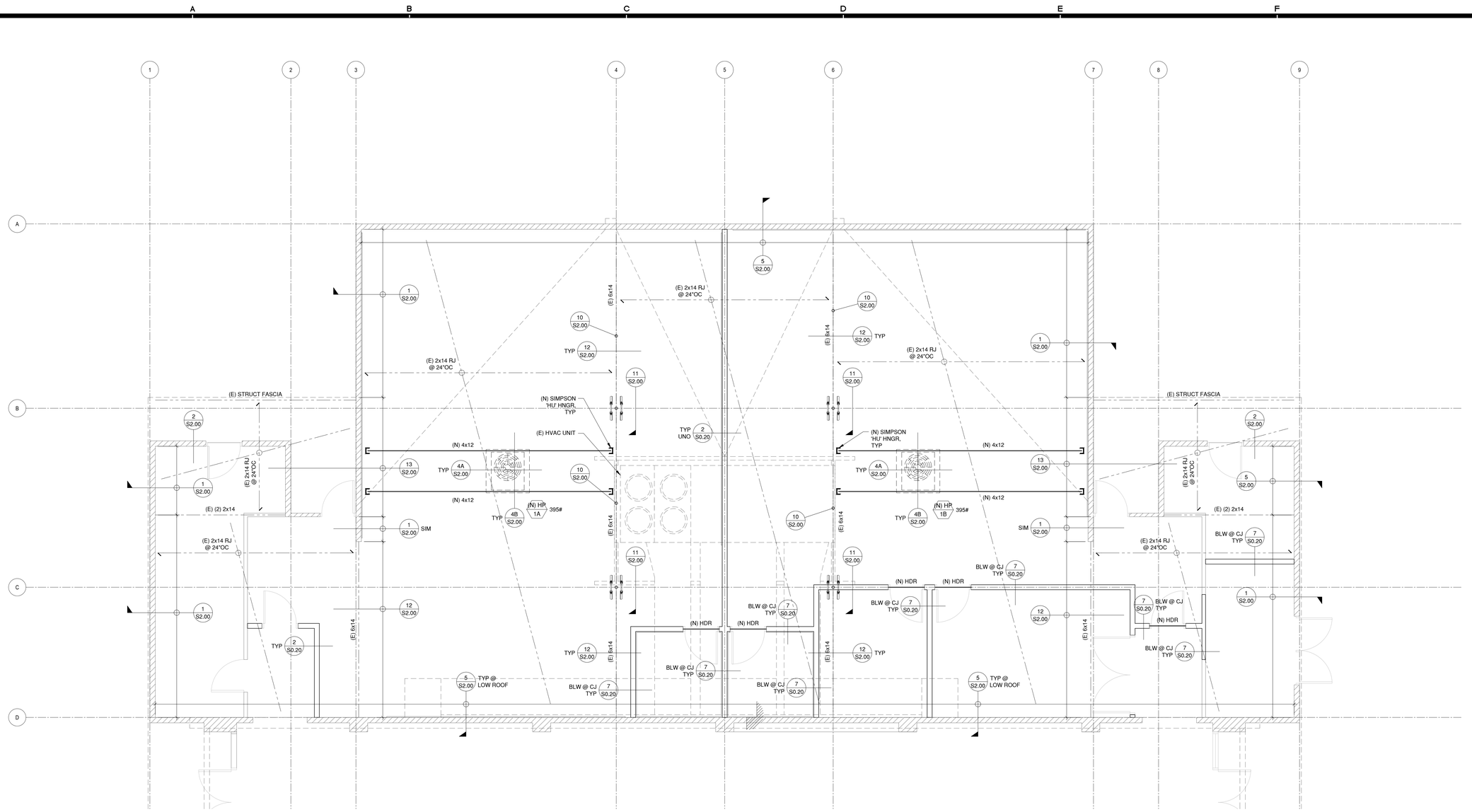
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

PARTIAL FOUNDATION PLAN

Job No. 24351

Date 6.25.2024

S1.10



PARTIAL ROOF FRAMING PLAN

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

N

NOTE:
SEE SHEETS S1.00 FOR ALL OTHER SCHEDULES, TABLES, LEGENDS, AND PLAN NOTES NOT SHOWN ON THIS SHEET.

AGENCY

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SS ☑ FLS ☑ ACS ☑
DATE: 04/30/2026

FLEWELLING & MOODY
architecture planning interiors

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ARCHITECT

LICENSED ARCHITECT
C-26053
Ren. Date 08/31/2027
STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
ROBERT SCOTT TURNER
No. 5462
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Job No. 24351

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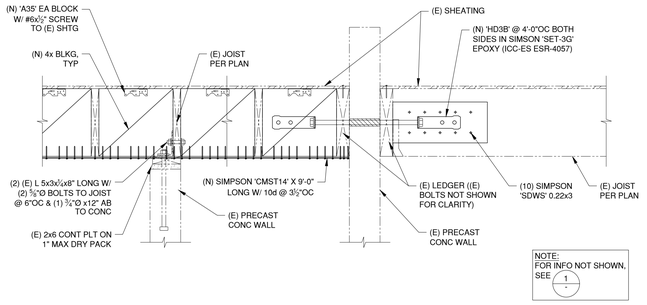
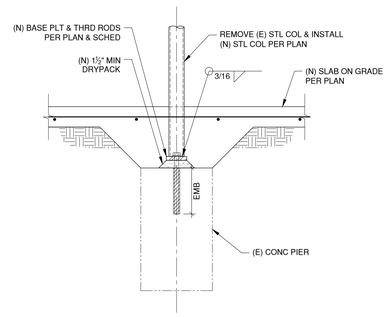
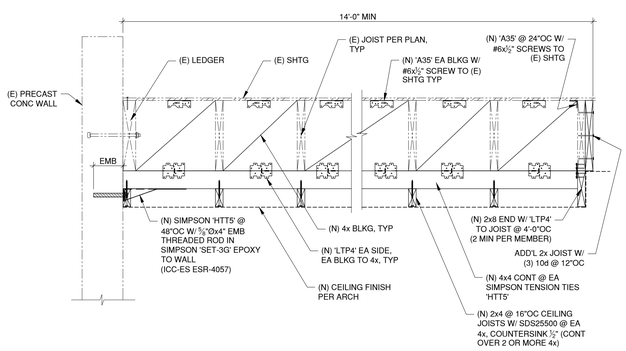


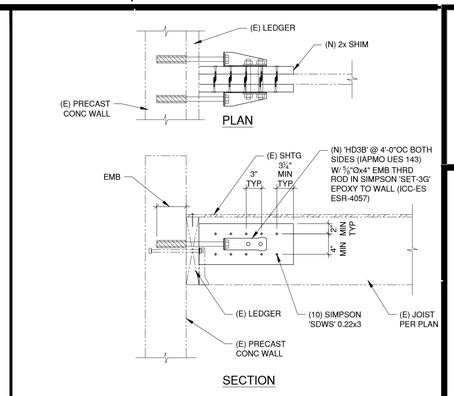
WALL ANCHORAGE DETAIL — SCALE:1"=1'-0" — 13



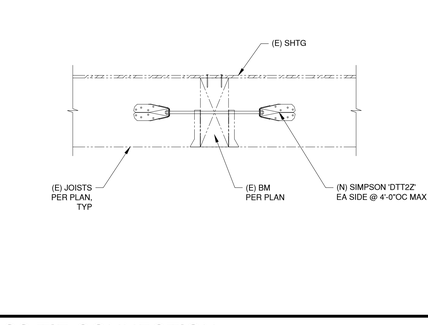
(N) STL COL AT (E) PIER — SCALE:1"=1'-0" — 9



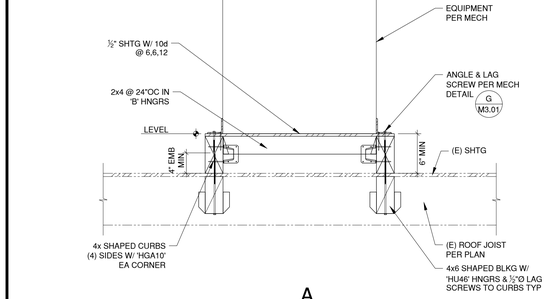
WALL ANCHORAGE DETAIL — SCALE:1"=1'-0" — 5



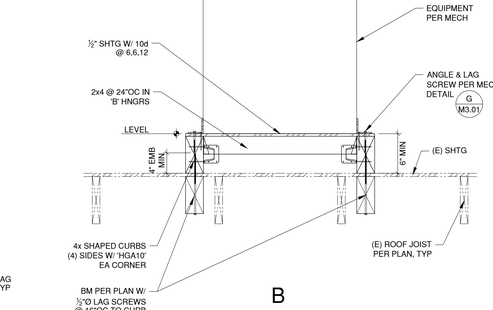
WALL ANCHORAGE DETAIL — SCALE:1"=1'-0" — 1



COL AT BM — SCALE:1"=1'-0" — 10



WALL SECTION AT (N) LOWERED SLAB — SCALE:1"=1'-0" — 6



SECTION AT WALL — SCALE:1"=1'-0" — 2

CROSS TIE CONNECTION — SCALE:1"=1'-0" — 15

WALL SECTION AT (E) LOWERED SLAB — SCALE:1"=1'-0" — 7

(N) TO (E) SLAB — SCALE:1"=1'-0" — 3

CROSS TIE CONNECTION — SCALE:1"=1'-0" — 12

MECH ANCHORAGE DETAILS — SCALE:1"=1'-0" — 4

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ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

STRUCTURAL DETAILS

Job No. 24351

Date 6.25.2024

S2.00

General Project Note:

1. Coordination of work: Layout of materials, equipment and systems is generally diagrammatic unless specifically dimensioned. Some work may be shown offset for clarity. The actual location of all materials, piping, ductwork, fixtures, equipment, supports, etc. shall be carefully planned, prior to installation of any work to avoid all interferences with each other, or with structural, fire sprinkler, electrical, architectural or other elements. Verify the proper voltage and phase of all equipment with the electrical plans. All conflicts shall be called to the attention of the architect and the engineer prior to the installation of any work or the ordering of any equipment.

2. Cutting, boring, saw cutting or drilling through the new or existing structural elements to be done only when so detailed in the drawings or accepted by the Architect and Structural engineer with the approval of DSA representative.

Codes:

California Code of Regulations (C.C.R)

Part 1 - 2022 California Standards Administrative Code, Title 24, C.C.R.
Part 2 - 2022 California Building Code (C.B.C.), Title 24, C.C.R. Volumes 1-3.
Part 3 - 2022 California Electrical Code, Title 24, C.C.R.
Part 4 - 2022 California Mechanical Code (C.M.C.), Title 24, C.C.R.
Part 5 - 2022 California Plumbing Code (C.P.C.), Title 24, C.C.R.
Part 6 - 2022 California Energy Code, Title 24, C.C.R.
Part 9 - 2022 California Fire Code, Title 24, C.C.R.

Standards and Guides:

ADAAG - American with Disabilities Act, Accessibility Guidelines.
Fixtures - Plumbing fixtures to comply with table 5.303.6 of the California Green Building Standards - 2022 Edition.

Air Conditioning Legend

SYMBOL	ABBR.	ITEM	SYMBOL	ABBR.	ITEM
	A.C.	Air Conditioning		H.W.R.	Heating Water Return
	A.D.	Access Door		H.W.S.	Heating Water Supply
	A.F.F.	Above Finished Floor		INT.	Internal
	A.H.	Air Handler		LOC.	Location
	B.A.S.	Building Automation System		M.O.	Motor Operated
	B.V.	Butterfly Valve		(N)	New
	C.D.	Condensate Drain		N.C.	Normally Closed
	C.E.	Ceiling Exhaust Register		N.I.C.	Not In Contract
	C.W.R.	Condenser Water Return		N.O.	Normally Open
	C.W.S.	Condenser Water Supply		O.S.A.	Outside Air
	C.H.W.R.	Chilled/Hot Water Return		O.B.D.	Opposed Blade Damper
	C.H.W.S.	Chilled/Hot Water Supply		P.O.C.	Point of Connection
	COMB.	Combustion		P.P	Pateo Plug
	CONN.	Connection		PROV.	Provide
	CONT.	Continuation		P.R.V.	Pressure Reducing Valve
	C.R.	Ceiling Return Register		SIM.	Similar
	CLG.	Ceiling	S.F.D.	S.F.D.	Smoke / Fire Damper w/ access panel
	C.S.	Ceiling Supply Register		S.M. or S/M	Sheet Metal
	C.V.	Check Valve		S.O.V.	Shut Off Valve
	D.C.W.	Domestic Cold Water		S.P.S.T.	Single Pole Single Throw
	DIA.	Diameter		STAT.	Thermostats or Room Sensor
	D.L.	Door Louver		SURF.	Surface
	DN.	Down		(TYP)	Typical
	D.P.D.T.	Double Pole Double Throw		U.G.	Underground
	D.T.R.	Duct Thru Roof		U.N.O.	Unless Noted Otherwise
	(E)	Existing		V.D.	Volume Damper
	E.F.	Exhaust Fan		V.D.	Vol. Damper w/ Remote Operator
	E.M.S.	Energy Management System		W	With
	EX.	Exhaust		W.R.	Wall Return Register
	F.D.	Fire Damper w/ acc. panel		W.S.	Wall Supply Register
	Flex. Conn	Flexible Connection			Duct w/ Acoustic Lining
	FLR.	Floor		T.V.	Turning Vanes
	F.T.R.	Flue Thru Roof			Extractor
	Furn.	Furnace			
	GA.	Gauge			CO2 SENSOR
	GAL.	Gallon			
	GALV.	Galvanized			Union
	G.P.M.	Gallons per Minute			Reducer or Increaser
	GRD.	Grade			
	G.V.	Gate Valve			

Title 24 Notes:

The California Energy Code Section 10-103 requires Acceptance testing on all newly installed lighting controls, mechanical systems, envelops, 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.

Lighting controls acceptance tests must be performed by a certified lighting controls Acceptance Test Technician (ATT).

mechanical system acceptance tests must be performed by a 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 owner's agent.

A list of certified ATT 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 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.

TITLE 24 MECHANICAL & PLUMBING REQUIREMENTS (CODE REFERENCES ARE TO 2022 BUILDING ENERGY EFFICIENCY STANDARDS):

1. All air cooled HVAC units shall have minimum efficiencies per Table 110.2-A.
2. All furnaces shall have minimum efficiencies per Table 110.2-J.
3. All furnaces shall have stand by loss controls per section 110.2 (d).
4. All thermostats shall comply with 110 (b) or (c), as applicable.
5. All HVAC systems shall have outside (ventilation) air per 120.1 (b) 2. Also see mechanical plans for minimum outside air settings. Refer to table on plan.
6. When CO2 ventilation demand controls are specified, provide in accordance with 120.1 C. 4.
7. Minimum ventilation rates shall be initiated one hour prior to scheduled occupancy per 120.1 (c) 2.
8. Each HVAC system shall have shut-off and reset controls complying with 120.2 (e).
9. All outside and exhaust dampers shall automatically close per 120.2 (i).
10. All systems greater than a nominal 54 MBH cooling capacity shall have economizers equipped with fault detection and diagnostics per 120.2 (i).
11. All ductwork insulation shall comply with 120.4.
12. Set up all thermostats with a dead band of no less than three degrees to prevent cycling between heating and cooling.
13. Acceptance tests required prior to granting occupancy. NA refers to Non Residential appendices:
    - Outdoor air ventilation systems per NA 7.5.1.
    - Constant volume single zone system controls per NA 7.5.2.
    - Air economizers per NA 7.5.4.
    - Demand control (CO2) controls, when required, per NA 7.5.5.
    - Fault Detection & diagnostics (FDD) per NA 7.5.11.

Equipment 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 Chapters 13, 26 and 30.

1. All permanent equipment and components.
2. Temporary, movable or mobile equipment that is permanently attached (E.G. hard wired) to the building utility services such as electricity, gas or water. "Permanently attached" shall include all electrical connections except plugs for 110/220 volt receptacles having a flexible cable.
3. Temporary, moveable or mobile equipment which is heavier than 400 pounds or has a center mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be restrained in a manner approved by DSA.

The following Mechanical and Electrical components shall be positively attached to the structure, but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping and conduit. Flexible connections must allow movement in both transverse and longitudinal directions:

A. Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

The anchorage of all Mechanical, Electrical and Plumbing components shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note:

Piping, ductwork, and Electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7 Section 13.3 as defined in ASCE 7 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.

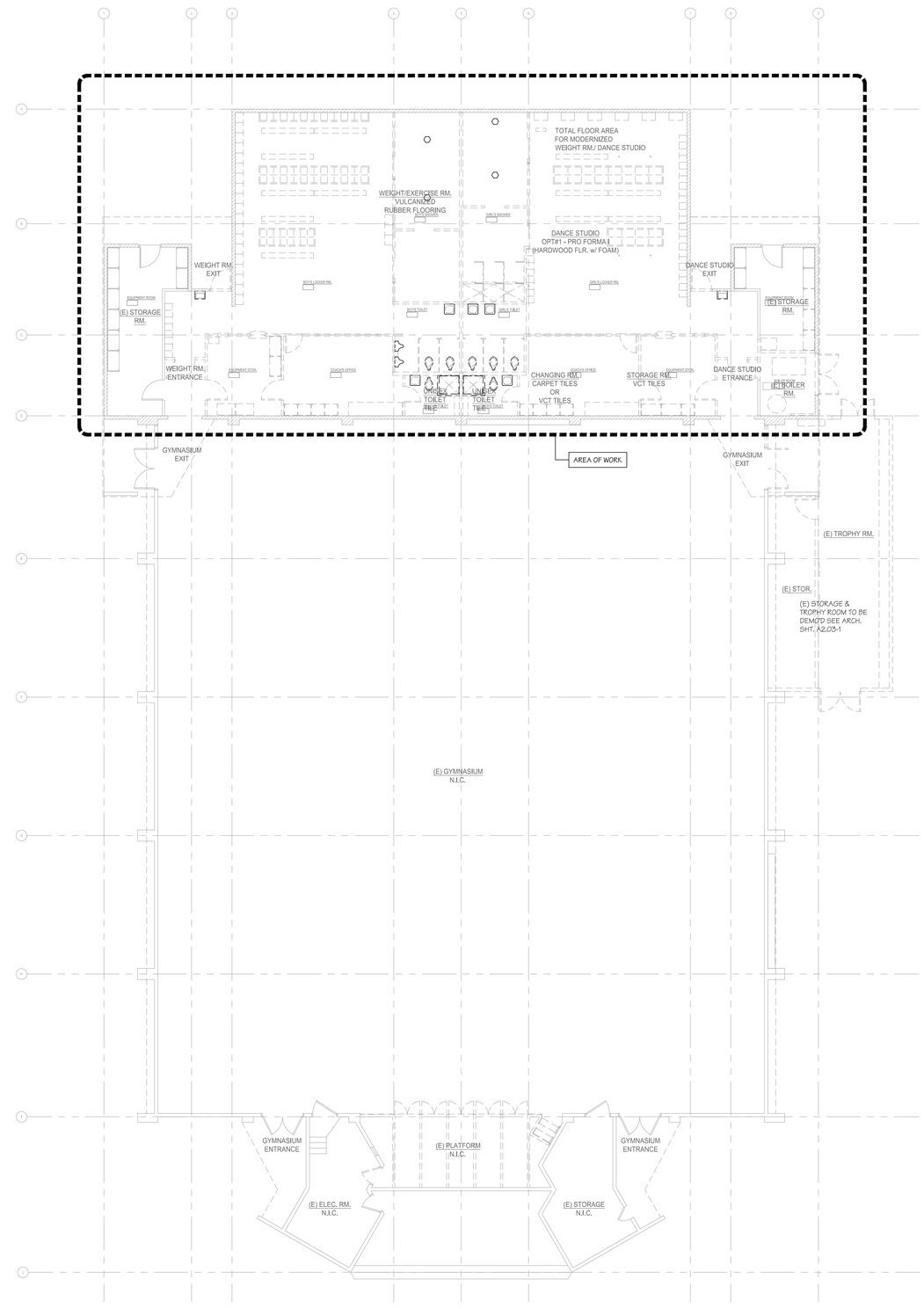
The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. The MEP design professional engineer responsible for content on these sheets has verified that the design methods identified below are in accordance with DSA IR 16-13

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP),
Electrical Distribution Systems (E):

MP☑ MD☑ PP ☐ E ☐ **Option 1:** Project Specific Design.

MP☐ MD☐ PP ☐ E ☐ **Option 2:** Design Based on OSHPD OPM, Within Project Submittal.

MP☐ MD☐ PP ☐ E ☐ **Option 3:** Design Based on OSHPD OPM, Deferred Submittal.



OVERALL MECHANICAL PLAN

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

BASKIN MECHANICAL ENGINEERS
2131 19th St, Suite B
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Tel: (661) 397-2114
Job: 24096
Plt: 02-11-26

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LICENSED ARCHITECT MARK JAMES DASSINGER C-26053 Ren. Date 08/31/2027 STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER MARK JAMES DASSINGER No. M26578 Exp. 9-30-26 MECHANICAL STATE OF CALIFORNIA

Drawn by _
Checked by _

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ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
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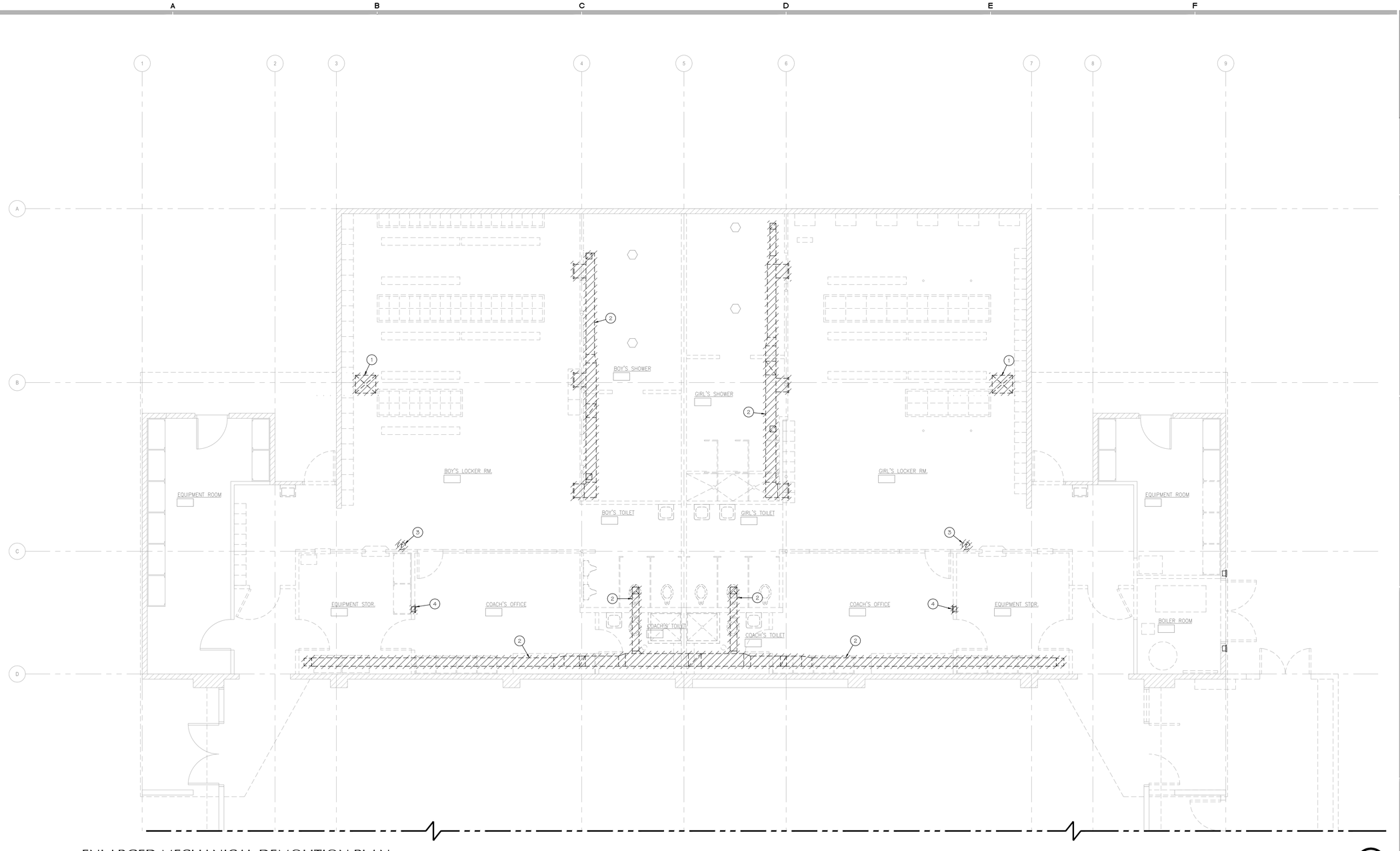
GYMNASIUM OVERALL MECHANICAL DEMOLITION PLAN

Job No. 3139

Date 6.25.2024

M2.01



ENLARGED MECHANICAL DEMOLITION PLAN

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

A

MECHANICAL DEMOLITION KEYNOTES:

1. DEMO (E) SA GRILLE & DUCT DROP.
2. DEMO (E) DUCT WORK AS INDICATED.
3. DEMO (E) MUA THERMOSTAT.
4. DEMO (E) ELECTRIC WALL HEATERS.

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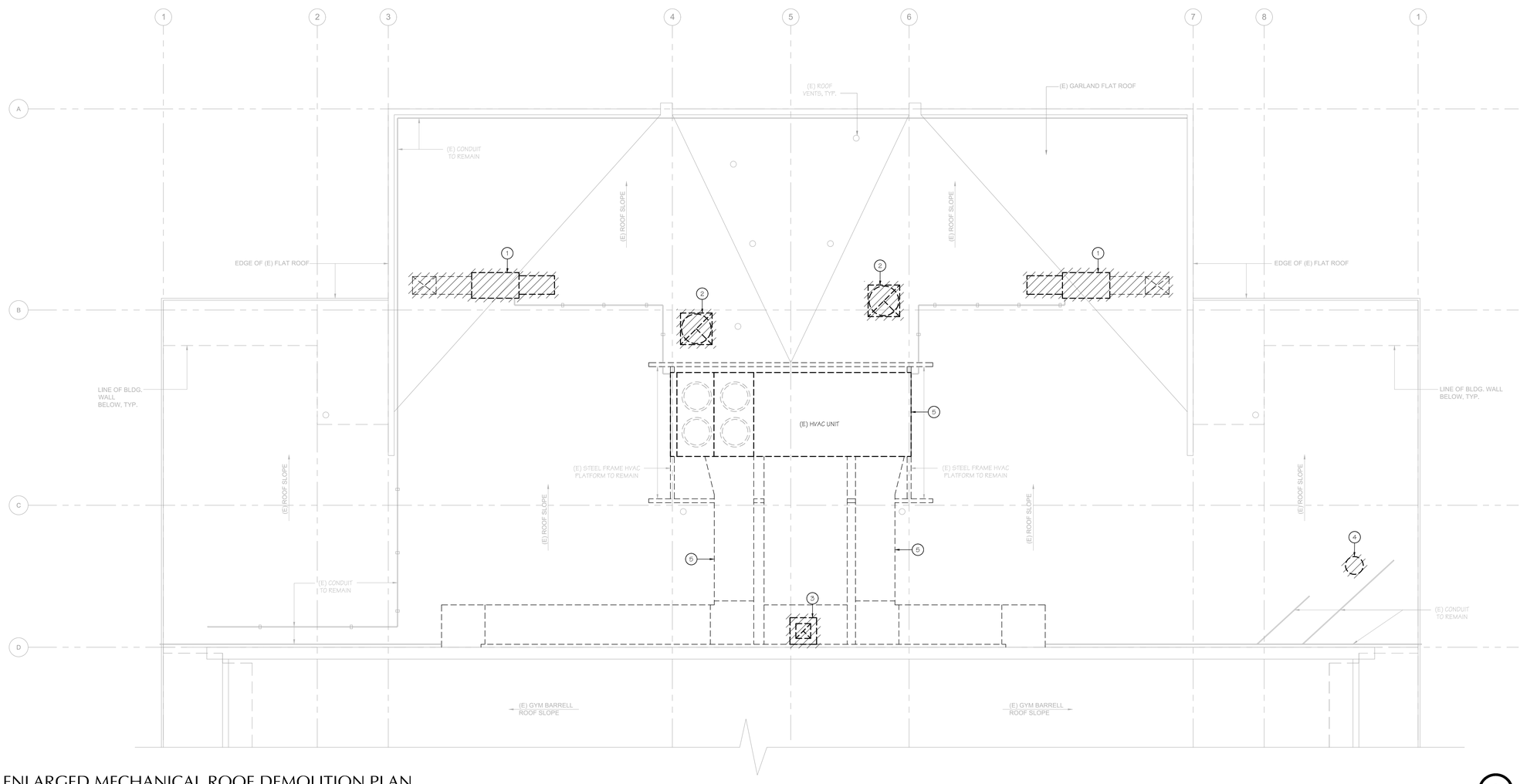

ENLARGED MECHANICAL ROOF DEMOLITION PLAN

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

A

MECHANICAL DEMO KEYNOTES:

1. DEMO (E) MUA UNIT, EXPOSED DUCT WORK, INFILL & PATCH ROOF TO MATCH EXISTING, SEE DETAIL 6/S0.20.
2. DEMO (E) EXHAUST FAN, INFILL & PATCH ROOF TO MATCH EXISTING
3. DEMO (E) EXHAUST FAN BELOW RA DUCT, INFILL & PATCH ROOF TO MATCH EXISTING.
4. DEMO (E) BOILER FLUE, INFILL & PATCH ROOF TO MATCH EXISTING.
5. (E) MAIN GYM PACKAGE UNIT & EXPOSED DUCT WORK TO REMAIN.

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GYMNASIUM OVERALL MECHANICAL ROOF DEMOLITION PLAN

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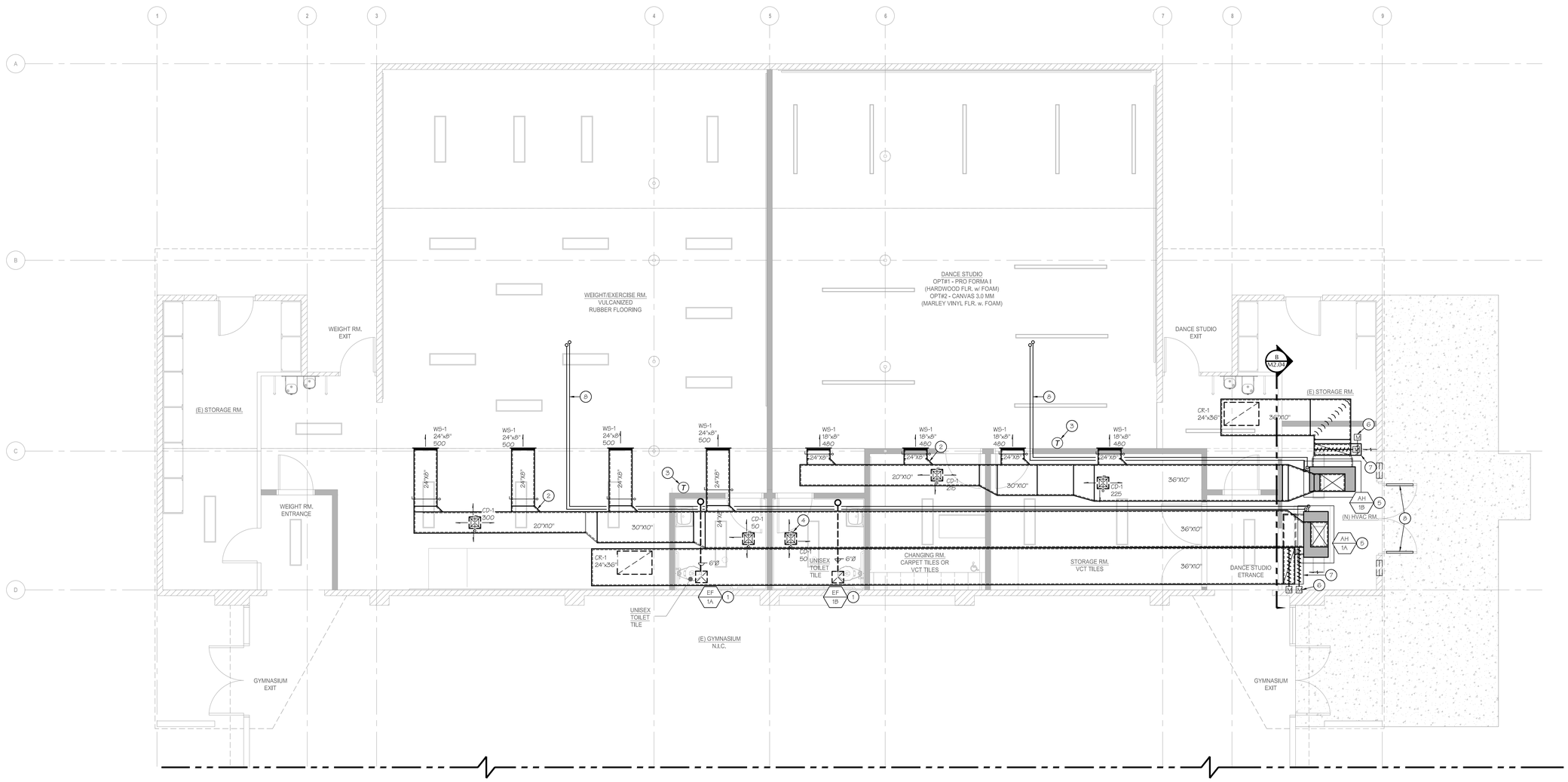


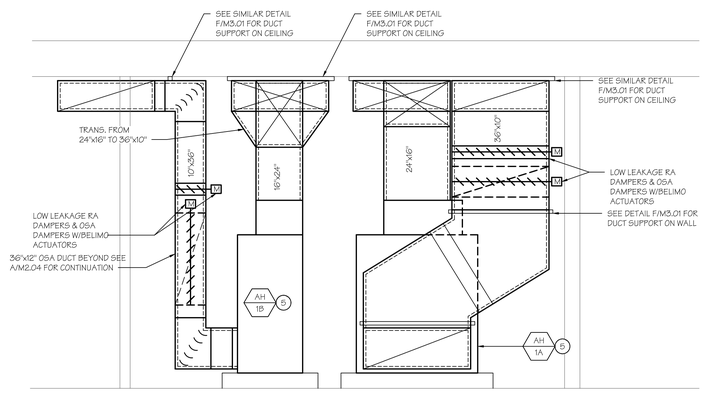
ENLARGED MECHANICAL FLOOR PLAN

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

A

MECHANICAL KEYNOTES:

1. CEILING EXHAUST FAN W/6'Ø FULL SIZE DISCHARGE UP TO ROOF CAP
2. SEE TYP. DETAIL B/M3.01
3. PELICAN THERMOSTAT W/INTEGRAL CO2 SENSOR, SEE TYP.DETAIL C/M3.01
4. SEE TYP. DETAIL E/M3.01, WHERE DAMPERS ARE LOCATED ABOVE GYP. BOARD CEILING OR OTHER INACCESSIBLE LOCATION, PROVIDE DAMPER W/BELDON CABLE & CEILING MTD. ACTUATOR, YOUNG REGULATOR OR EQUAL.
5. FLOOR MOUNTED AIR HANDLER SEE DETAIL A/M3.01
6. SET OSA DAMPERS TO MODULATE BETWEEN 335 CFM MIN. & 665 CFM MAX. FOR DEMAND CONTROL VENTILATION
7. PROVIDE 1/4" BIRD SCREEN OVER DUCT OPENING
8. SEE TYP. DETAIL H/M3.01 FOR REFRIGERANT PIPING SUPPORT



SECTION AT AIR HANDLER

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

B

DIFFUSER SIZING CHART

CFM	TITUS TDC, SQUARE NECK
0 - 150	6" x 6"
151 - 275	9" x 9"
276 - 475	12" x 12"
476 - 700	15" x 15"
701 - 950	18" x 18"
951 - 1250	21" x 21"
1251 - 1700	24" x 24"
1701 - 2500	30" x 30"

BASKIN MECHANICAL ENGINEERS
2131 19th St, Suite B
Bakersfield, CA 93301
Tel: (661) 397-2114
Job: 24096
Plt: 02-11-26

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125472 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/30/2026

FLEWELLING & MOODY
architecture planning interiors

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Los Angeles, CA 90041
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ARCHITECT

LICENSED ARCHITECT MARK JAMES BASKIN C-26053 Ren. Date 08/31/2027 STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER MARK JAMES BASKIN No. M26578 Exp. 9-30-26 MECHANICAL STATE OF CALIFORNIA

Drawn by –
Checked by –

Revisions

No.	Date	Description
–		

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

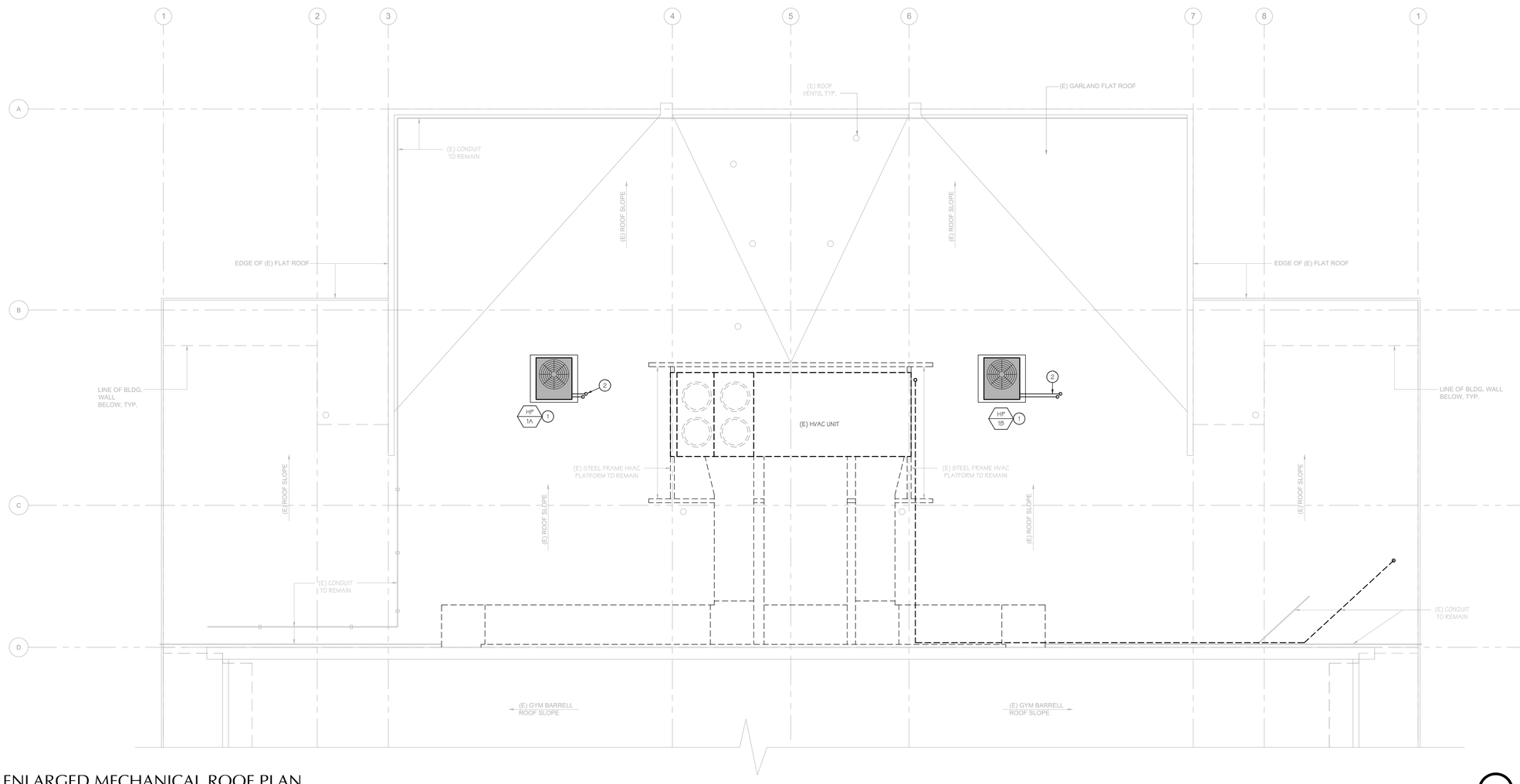
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

ENLARGED MECHANICAL FLOOR PLAN

Job No. 3139

Date 6.25.2024

M2.04



ENLARGED MECHANICAL ROOF PLAN

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

A

MECHANICAL KEYNOTES:

1. ROOF MOUNTED HP UNIT, SEE DETAIL G/M3.01.
2. 1-1/8" RS & 1/2" RL INSULATED COPPER REFRIGERANT PIPING. INSTALL AND PRESSURE TEST PER MANUFACTURERS INSTRUCTION. REFRIGERANT PIPING EXPOSED TO WEATHER SHALL BE METAL CLAD

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

GYMNASIUM OVERALL MECHANICAL ROOF PLAN

Job No. 3139

Date 6.25.2024

M2.05

EXHAUST FAN SCHEDULE

DESIGNATION	EF-1A, 1B
CFM	75
EXT. S.P. (IN. WC)	0.30
BHP/HP/WATTS	– / – / 16
VOLTS/ PHASE	115/1
RPM	950
SONES (dBA)	0.9
DRIVE	DIRECT
MOUNTING	CEILING
MANUFACTURER	GREENHECK
TYPE	CENTRIFUGAL
MODEL NUMBER	SP-A110
OPER. WT. (LBS)	18
START/STOP INTERLOCK WITH	SEE NOTE 4
ACCESSORIES	1, 2, 3,

1. NEMA-1 TOGGLE MOUNTED AND WIRED SWITCH.
2. DESIGNER GRILLE, INTEGRAL BACK DRAFT DAMPER
3. ENERGY STAR RATED, RATED FOR CONTINUOUS USE
4. INTERLOCK WITH OCCUPANCY SENSOR W/15 MIN. OFF DELAY, COORDINATE WITH ELECTRICAL

AIR HANDLER SCHEDULE

DESIGNATION	AH-1A, 1B
SUPPLY AIR (CFM)	2,400
EXT. SP (IN WC)	0.80
ELECTRICAL	
VOLTAGE /PHASE	460 / 3
MCA / MOCP	20 / 25
COOLING CAPACITY	
TOTAL COOLING CAPACITY (MBH)	76.8
SENSIBLE CAPACITY (MBH)	59.8
HEAT CAPACITY	
HEAT (MBH)	81.0
AUX. HEAT (kW)	10.0
FILTERS	
QUANTITY/SIZE	3) 16"x25"x2"
TYPE	MERV 13
BLOWER	
BHP / HP / WATTS	1.14 / 2.0 / –
DRIVE	BELT
MANUFACTURER	TRANE
MODEL NUMBER	TWE073K4BAA
OPER. WT (LBS)	373
ACCESSORIES	1, 2, 3, 4

1. PELICAN TC3 W/INTEGRAL CO2 SENSOR TITLE 24 COMPLIANT FIELD INSTALLED AND WIRED WALL MOUNTED THERMOSTAT
2. FLOOR MOUNTED AIR HANDLER PER DETAIL A/M3.01
3. SEE DETAIL D/M3.01 FOR INTERLOCK W/FIRE ALARM PER CMC 609.0
4. PROVIDE W/RELICAN PEARL ECONOMIZER CONTROLLER & LOW LEAKAGE DAMPERS, BELIMO ACTUATORS

HEAT PUMP UNIT SCHEDULE

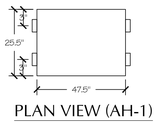
DESIGNATION	HP-1A, 1B
MCA / MOCP	17.0 / 20
VOLTS/PHASE	460 / 3
ARI COOL / HEAT CAPACITY (MBH)	72.0 / 81.0
SEER / EER / IEER	– / 11.5 / 14.8
MANUFACTURER	TRANE
TYPE	AIR COOLED
MODEL NUMBER	TWA072K4DAA
OPER. WT (LBS)	395
ACCESSORIES	1 THRU 3

1. INSULATE REF PIPING PER INSTALLATION INSTRUCTIONS.
2. LIQUID LINE SOLENOID VALVE PER INSTALLATION INSTRUCTIONS.
3. ANTI SHORT CYCLE TIMER.

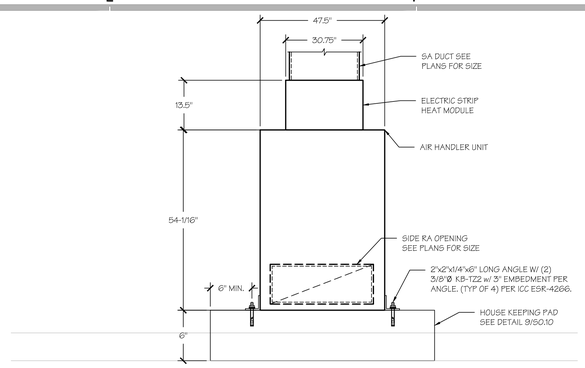
GRILLE SCHEDULE

MARK	DUTY	DESCRIPTION
WS-1	WALL SUPPLY	TITUS MODEL 300RS, 3/4" BLADE SPACING DOUBLE DEFLECTION SURFACE MOUNT FRAME, NO. 26 OFF-WHITE FINISH.
CD-1	CEILING SUPPLY	TITUS MODEL TDC LOUVERED FACE DIFFUSER WITH FOR SURFACE MOUNT, SEE DIFFUSER SIZING CHART FOR NECK SIZE.
CR-1	CEILING RETURN	TITUS 33RL HEAVY DUTY RETURN BAR GRILLE WITH NO. 26 OFF-WHITE FINISH, FOR SURFACE MOUNTING

NOTE: PAINT ALL VISIBLE SURFACES BEHIND DIFFUSERS AND GRILLES FLAT BLACK.



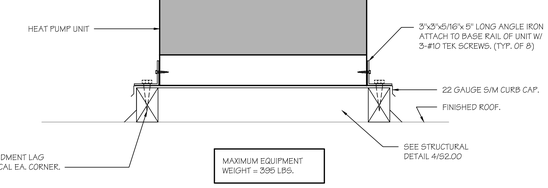
PLAN VIEW (AH-1)



MAXIMUM EQUIPMENT WEIGHT FOR THIS DETAIL IS 373 lbs.

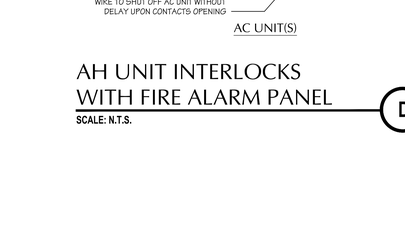
AIR HANDLER UNIT ANCHORAGE — A

NO SCALE:



SUPPLY AIR PLENUM SUPPORT — E

SCALE: N.T.S.



45° TAKE OFF — B

SCALE: N.T.S.

VERTICAL DUCT SUPPORT — F

SCALE: N.T.S.

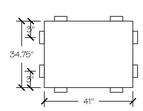
MOUNTING HEIGHT

OVER OBSTRUCTION

* 44" MAX. FOR WHEEL CHAIR FORWARD APPROACH AND 46" MAX. FOR SIDE APPROACH PER CBC FIGURE 11B-308.2.2 & 11B-308.3.2.

THERMOSTAT MOUNTING LOCATION — C

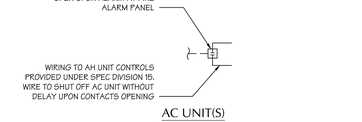
SCALE: N.T.S.



PLAN VIEW (HP-1)

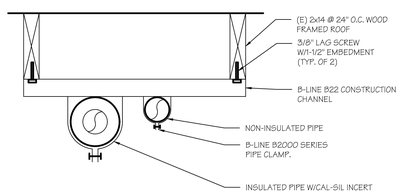
HEAT PUMP UNIT - ROOF MOUNTED — G

SCALE: N.T.S.



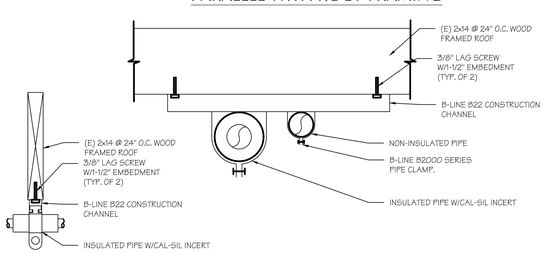
AH UNIT INTERLOCKS WITH FIRE ALARM PANEL — D

SCALE: N.T.S.



NOTES:
1. SEE PLANS FOR PIPE SIZES.
2. MAX. SPACING 6'-0"

PARALLEL WITH ROOF FRAMING



PERPENDICULAR WITH ROOF FRAMING

REFRIGERANT PIPE SUPPORT — H

SCALE: N.T.S.

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

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ROSAMOND, CA 93560

MECHANICAL DETAILS & SCHEDULES

Job No. 3139

Date 6.25.2024

M3.01

BASKIN MECHANICAL ENGINEERS
2131 19th St, Suite B
Bakersfield, CA 93301
Tel: (661) 397-2114
Job: 24096
Plt: 02-11-26

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.		
Project Name: Gymnasium Remodel	**Report Page:**	**(Page 1 of 12)**
Project Address: 2925 West Rosamond Blvd	**Date Prepared:**	7/9/2025

A. GENERAL INFORMATION

01	Project Location (city)	Rosamond	04	Total Conditioned Floor Area	2889
02	Climate Zone	14	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● Gymnasium

B. PROJECT SCOPE

This table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☒ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☒ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☒ Ductwork (existing to remain, altered or new)
	☐ Chillers	☒ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Gymnasium Remodel	**Report Page:**	**(Page 2 of 12)**
	Date Prepared:	7/9/2025

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND	Yes	AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES			

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
HP-1A	1	Single zone	New/ Addition		☐
HP-1B	1	Single zone	New/ Addition		☐

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Gymnasium Remodel	**Report Page:**	**(Page 3 of 12)**
	Date Prepared:	7/9/2025

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (Includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
HP-1A	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	Yes	37.44	81	0	69.53	57.93	107.3	75.16
HP-1B	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	Yes	37.52	81.18	0	69.92	65.86	108.78	68.12

[1]FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.
[2]It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.
[3] If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
[4] Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
HP-1A	>=65,000 and <135,000		COP	3.4	6	EER IEER	11 14.1	11.5 14.8
HP-1B	>=65,000 and <135,000		COP	3.4	3.7	EER IEER	11 14.1	12.6 17.4

STATE OF CALIFORNIA
Mechanical Systems
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CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Gymnasium Remodel	**Report Page:**	**(Page 4 of 12)**
	Date Prepared:	7/9/2025

G. PUMPS

This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in 140.4(c), 140.4(e), 140.4(m), 170.2(c)3, and 170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	HP-1A	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	2,400	Site Elevation	2,326	Economizer	Differential Temperature
01	02	03	04			05		06	07	08	09			10	11
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)		Water Gauge (w.g)	Allowance		Design				
									Component Allowance	Fan Allowance (watt/cfm)[1]	Design Electrical Input Power Method		Motor Nameplate Horsepower		Design Electrical Input Power (kW)
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away			100			557		Manufacturer provided				0.98
			MERV 13-16 Filter upstream of thermal conditioning equipment			100			334						
			Hydronic/DX cooling coil or heat pump coil			100			334						
			Economizer Return Damper			100			110						
Supply Fan Base Allowance (kW)			Exhuast/Return/Relief/Transfer Fan Base Allowance(kW)						Fan System Allowance (kW)[3]		1.33		Fan System Electrical Output (kW)		0.98

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Gymnasium Remodel	**Report Page:**	**(Page 5 of 12)**
	Date Prepared:	7/9/2025

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	HP-1B	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	2,400	Site Elevation	2,326	Economizer	Differential Enthalpy
01	02	03	04			05		06	07	08	09			10	11
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)		Water Gauge (w.g)	Allowance		Design				
									Component Allowance	Fan Allowance (watt/cfm)[1]	Design Electrical Input Power Method		Motor Nameplate Horsepower		Design Electrical Input Power (kW)
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away			100			557		Manufacturer provided				0.98
			MERV 13-16 Filter upstream of thermal conditioning equipment			100			334						
			Hydronic/DX cooling coil or heat pump coil			100			334						
			Economizer Return Damper			100			110						
Supply Fan Base Allowance (kW)			Exhuast/Return/Relief/Transfer Fan Base Allowance(kW)						Fan System Allowance (kW)[3]		1.33		Fan System Electrical Output (kW)		0.98

[1] FOOTNOTES: Fans serving spaces with design background noise goals below NC35
[2] Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.
[3] Fan system allowance includes fan system base allowance.
[4] Filter pressure loss can only be counted once per fan system.
[5] Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.
[6] Computer room economizers must meet requirements of 140.9(a) and will be documented on the NRCC-PRC-E document..

H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O

01	02	03	04	05	06	07	08	09	10	11

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CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Gymnasium Remodel	**Report Page:**	**(Page 6 of 12)**
	Date Prepared:	7/9/2025

H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O

Fan System Name	Qty	Hours of Operation per Year	Design Supply Airflow Rate	Outdoor Airflow	% Outdoor Air at Full Design Airflow	Exemptions to Exhaust Air Heat Recovery Requirement per 140.4(q) & 170.2(c)4O	Exhaust Air Heat Recovery 140.4(q) & 170.2(c)4O	Type Of Heat Recovery Rating	Required Recovery Ratio	Energy Recovery Bypass

Fan Energy Index (FEI)

01	02	03
Name or Item Tag	FEI Exception	FEI
HP-1A	None Applies	1
HP-1B	None Applies	1

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
HP-1A	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	NA: Single Zone	DR Tstat per 110.12	Included	NA: No operable windows
HP-1B	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	NA: Would increase energy use	Provided

[1]FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125472 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/30/2026

FLEWELLING & MOODY
architecture planning interiors

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ARCHITECT

LICENSED ARCHITECT MARK JAMES BASKINETTE C-26053 Ren. Date 08/31/2027 STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER MARK JAMES BASKINETTE No. M26578 Exp. 9-30-26 MECHANICAL STATE OF CALIFORNIA

Drawn by –
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Revisions

No.	Date	Description
–		

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific use. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

TITLE 24 REPORT

Job No. 3139

Date 6.25.2024

M3.02

BASKIN MECHANICAL ENGINEERS
2131 19th St, Suite B
Bakersfield, CA 93301
Tel: (661) 397-2114
Job: 24096
Plt: 02-11-26

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)3ß 140.4(p) and 140.4(q) for all nonresidential and hatel/motel and d:\t24refnolink/\160.2, 160.3(a)3D, 170.2(a)4N, 170.2(a)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces
	☐	
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)2.

Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems

04		05			06			07
System Name	HP-1A	System Design OA CFM Airflow[1]		782	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[2] Provided
08	09	10	11	12	13	14	15	16

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3][6] 160.2(c)5D 160.2(c)5E 160.2(c)5D
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM
Weight Room	Health club/ weight rooms	1563			234.4	0	0
17	Total System Required Min OA CFM				234	18	Ventilation for this System Complies?

DCV	Provided per §120.1(d)4
Occ Sensor	NA: Not required space type
	Yes

04		05			06			07
System Name	HP-1B	System Design OA CFM Airflow[1]		781	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[2] Provided
08	09	10	11	12	13	14	15	16

J. VENTILATION AND INDOOR AIR QUALITY

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3][6] 160.2(c)5D 160.2(c)5E 160.2(c)5D
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM
Dance Studio	Gym/ sports arena (play area)	1326			663	0	0
17	Total System Required Min OA CFM				663	18	Ventilation for this System Complies?

DCV	Provided per §120.1(d)4
Occ Sensor	NA: Not required space type
	Yes

[1] *FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system*

[2] *Air filtration requirements apply to the following three system types per 120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.*

[3] *Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.*

[4] *See Standards Tables 120.1-A and 120.1-B.*

[5] *For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.*

[6] *120.2(e)3 requires systems serving rooms that are required by 130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by 130.1(c).*

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 120.4(g) for duct sealing.

01	☐	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.

L. DISTRIBUTION (DUCTWORK and PIPING)

Duct Leakage Testing

The answers to the questions below apply to the following duct systems:	HP-1A	**NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No
		Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	No
		Duct leakage testing per CMC Section 603.10.1 required for these systems?	Yes

11	No	The scope of the project includes only duct systems serving healthcare facilities
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17		All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A
18		All ductwork is an extension of an existing duct system
19		Ductwork serving individual dwelling unit
20		< 25 ft of new or replacement space conditioning ducts installed
21	R-8	Duct Insulation R-value
22		
23		

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified
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 MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	Trane 6-Ton Split HP; Carrier 50GEQM07;
NRCA-MCH-05-A - Air Economizer Controls	Trane 6-Ton Split HP; Carrier 50GEQM07;
NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to 120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO_2) concentration setpoints.	Trane 6-Ton Split HP; Carrier 50GEQM07;
NRCA-MCH-07-A Supply Fan Variable Flow Controls	Carrier 50GEQM07;
NRCA-MCH-11-A Automatic Demand Shed Controls	Carrier 50GEQM07;
NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	Trane 6-Ton Split HP; Carrier 50GEQM07;
NRCA-MCH-16-A Supply Air Temperature Reset Controls	Carrier 50GEQM07;
NRCA-MCH-18-A Energy Management Control Systems	Carrier 50GEQM07;

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes	Plan sheet or construction document location: M-Sheets

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Mike Mundschau	Documentation Author Signature:
Company: Baskin Mechanical Engineers	Signature Date: 2025-07-09
Address: 2131 19th St., Suite B	CEA/ HERS Certification Identification (if applicable): M37211
City/State/Zip: Bakersfield California 93301	Phone: (661) 397-2114

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Mark Baskin	Responsible Designer Signature:
Company: Baskin Mechanical Engineers	Date Signed: 2025-07-09
Address: 2131 19th St., Suite B	License: M26578
City/State/Zip: Bakersfield California 93301	Phone: (661)397-2114

BASKIN MECHANICAL ENGINEERS
2131 19th St, Suite B
Bakersfield, CA 93301
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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

TITLE 24 REPORT

Job No. 3139

Date 6.25.2024

M3.03

PLUMBING FIXTURE SCHEDULE:

WC-1
Floor mounted F.V. elongated accessible water closet, "Kohler" # K-96057 *Highcliff*, "Olsonite" # 10CC open-front white seat, bolt caps,"Zurn" # ZER6000AV-HET-CCP battery powered 1.28 GPF sensor flush-valve, 1-1/4" C.W.(reduce to 1" @ flush-valve), 3" S. & W., 2" V.O.

L
Wall hung vitreous china accessible lavatory, "Kohler" # K-2007 (21" x 18") Kingston, offset grid drain, "Zurn" #Z6950-XL-IM-S-F sensor faucet (0.5 GPM), (2) threaded angle wall stops with braided S.S. supplies, 17 ga. C.P. trap/offset tailpiece, (wrap H.W. and trap/tailpiece with "Pro Flo" # PF202WH covers), Provide "Leonard" # 170-LF-BP tempering valve set @ 105 degrees F., 1/2" H.W./C.W., 2" W., 2" W.C.O., 1-1/2" V., provide "Zurn" #Z1251 stud mounted support arms. (See detail C/P2.1)

EWH
Thermostatic tankless water heater CHRONOMITE "InviZible C-Micro #CM-30L/208, 6.2 kW @ 208v.-1ph., with factory disconnect switch, mount in wall under sink/lavatory in an ADA compliant manner. (1/2" H.W. to ea. lav or sink faucet), .2 GPM min. flow rate. Factory set max. temp @ 110 degrees F, 15 lbs. operating weight

EDF
Wall mounted electric dual hi-lo accessible drinking fountain / hydration bottle-fill station, "Elkay" #EZSTL8WSLK, 1/5th H.P. @ 120v.-1ph., (2) threaded angled wall stops with braided stainless steel supplies, 17 ga. C.P. trap/tailpiece, 2" W., 2" W.C.O., 1-1/2" V.O., 1/2" C.W.

Piping, Ductwork, and Electrical Distribution System Bracing Note:

Piping, ductwork, and Electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7 Section 13.3 as defined in ASCE 7 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. The MEP design professional engineer responsible for content on these sheets has verified that the design methods identified below are in accordance with DSA IR 16-13

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP),
Electrical Distribution Systems (E):

MP☑ MD☑ PP ☐ E ☐ **Option 1:** Project Specific Design.

MP☐ MD☐ PP ☐ E ☐ **Option 2:** Design Based on OSHPD OPM, Within Project Submittal.

MP☐ MD☐ PP ☐ E ☐ **Option 3:** Design Based on OSHPD OPM, Deferred Submittal.

Codes:

California Code of Regulations (C.C.R)
Part 1 - 2022 California Standards Administrative Code, Title 24, C.C.R.
Part 2 - 2022 California Building Code (C.B.C.), Title 24, C.C.R. Volumes 1-3.
Part 3 - 2022 California Electrical Code, Title 24, C.C.R.
Part 4 - 2022 California Mechanical Code (C.M.C.), Title 24, C.C.R.
Part 5 - 2022 California Plumbing Code (C.P.C.), Title 24, C.C.R.
Part 6 - 2022 California Energy Code, Title 24, C.C.R.
Part 9 - 2022 California Fire Code, Title 24, C.C.R.

Standards and Guides:

ADAAG - American with Disabilities Act, Accessibility Guidelines.
Fixtures - Plumbing fixtures to comply with table 5.303.6 of the California Green Building Standards - 2022 Edition.

TITLE 24 MECHANICAL & PLUMBING REQUIREMENTS (CODE REFERENCES ARE TO 2022 BUILDING ENERGY EFFICIENCY STANDARDS):

1. All air cooled HVAC units shall have minimum efficiencies per Table 110.2-A.
2. All furnaces shall have minimum efficiencies per Table 110.2-J.
3. All furnaces shall have stand by loss controls per section 110.2 (d).
4. All thermostats shall comply with 110 (b) or (c), as applicable.
5. All HVAC systems shall have outside (ventilation) air per 120.1 (b) 2. Also see mechanical plans for minimum outside air settings. Refer to table on plan.
6. When CO2 ventilation demand controls are specified, provide in accordance with 120.1 C. 4.
7. Minimum ventilation rates shall be initiated one hour prior to scheduled occupancy per 120.1 (c) 2.
8. Each HVAC system shall have shut-off and reset controls complying with 120.2 (e).
9. All outside and exhaust dampers shall automatically close per 120.2 (f).
10. All systems greater than a nominal 54 MBH cooling capacity shall have economizers equipped with fault detection and diagnostics per 120.2 (i).
11. All ductwork insulation shall comply with 120.4.
12. Set up all thermostats with a dead band of no less than three degrees to prevent cycling between heating and cooling.
13. Acceptance tests required prior to granting occupancy. NA refers to Non Residential appendices:
    - Outdoor air ventilation systems per NA 7.5.1.
    - Constant volume single zone system controls per NA 7.5.2.
    - Air economizers per NA 7.5.4.
    - Demand control (CO2) controls, when required, per NA 7.5.5.
    - Fault Detection & diagnostics (FDD) per NA 7.5.11.

Equipment 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 Chapters 13, 26 and 30.

1. All permanent equipment and components.
2. Temporary, movable or mobile equipment that is permanently attached (E.G. hard wired) to the building utility services such as electricity, gas or water. "Permanently attached" shall include all electrical connections except plugs for 110/220 volt receptacles having a flexible cable.
3. Temporary, moveable or mobile equipment which is heavier than 400 pounds or has a center mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be restrained in a manner approved by DSA.

The following Mechanical and Electrical components shall be positively attached to the structure, but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping and conduit. Flexible connections must allow movement in both transverse and longitudinal directions:

A. Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

The anchorage of all Mechanical, Electrical and Plumbing components shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with above requirements.

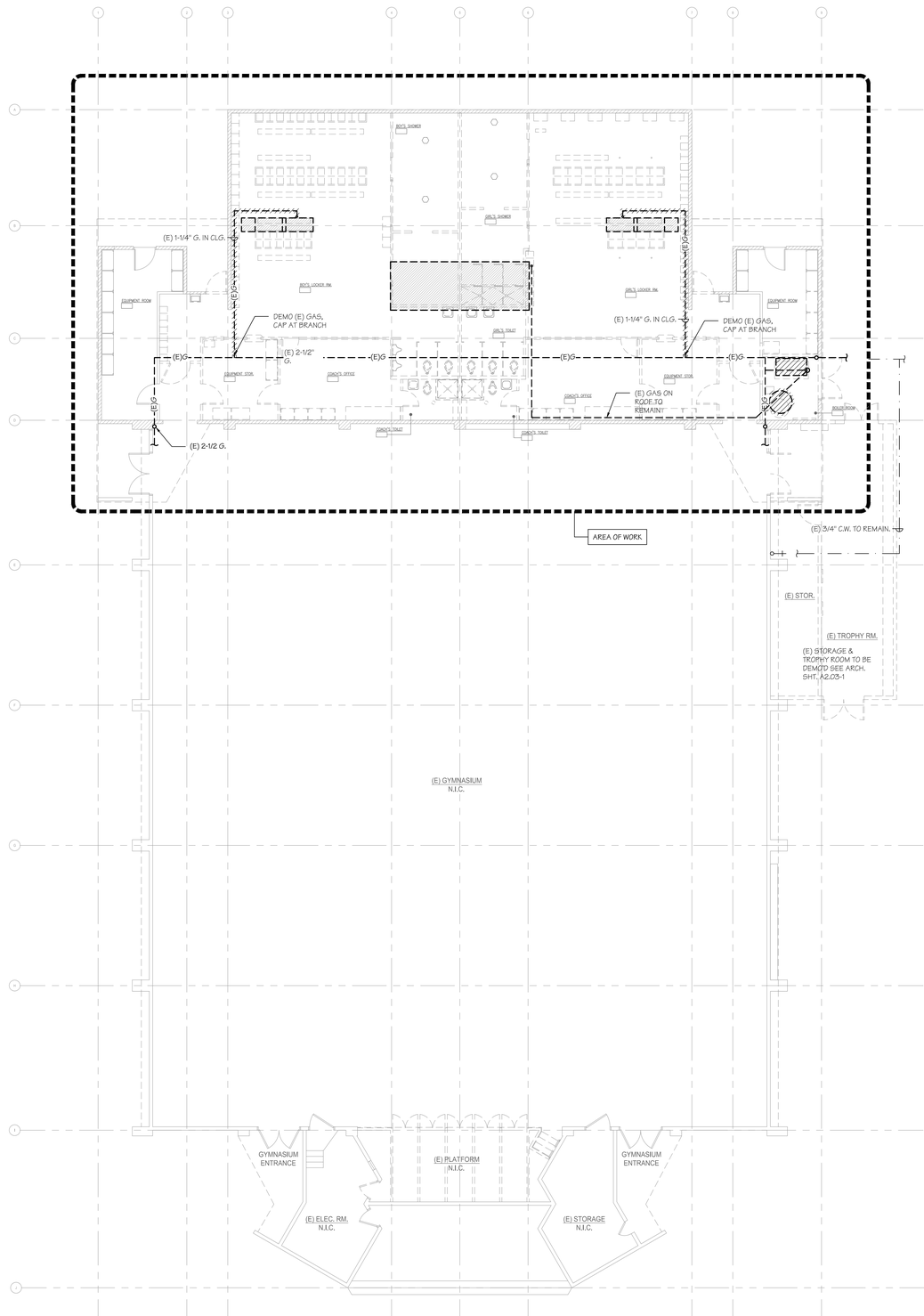
PLUMBING LEGEND

SYMBOL	ABBR.	ITEM	SYMBOL	ABBR.	ITEM
	ACC.	ACCESSIBLE		GRD.	GRADE
	A.D.	ACCESS DOOR/WALL BOX	G.W.	G.N.	GREASE WASTE
	A.F.F.	ABOVE FINISHED FLOOR		H.B.	HOSE BIBB
	C.D.	CONDENSATE DRAIN		H.V.(A-C)	AIR CONDITIONING EQPT.
	C.I.	CAST IRON		L.	LAVATORY
	CLG.	CEILING		LOC.	LOCATION
	C.O.	CLEANOUT		(N)	NEW
	COMB.	COMBUSTION		N.I.C.	NOT IN CONTRACT
	CONN.	CONNECTION	OR	P.O.C.	POINT OF CONNECTION
	CONT.	CONTINUATION		PROV.	PROVIDE
	COTG	CLEANOUT TO GRADE		P.R.V.	PRESSURE REDUCING VALVE
	(D)C.W.	(DOMESTIC) COLD WATER		R.D.	ROOF DRAIN
	D.F.	DRINKING FOUNTAIN		R.W.L.	RAINWATER LEADER
	(D)H.W.	(DOMESTIC) HOT WATER		S.	SINK
	(D)HWR	(DOMESTIC) HOT WATER RETURN		S.A.W.	SOIL AND WASTE
	DN.	DOWN		SIM.	SIMILAR
	DR'N.	DRAIN	OR OR	S.O.V.	SHUT OFF VALVE
	(E).	EXISTING		SS	STAINLESS STEEL
	(E)C.W.	EXISTING COLD WATER		S.S.	SERVICE SINK
	(E)H.W.	EXISTING HOT WATER		SURF.	SURFACE
	(E)H.W.R.	EXISTING HOT WATER RETURN		T.&P.	TEMPERATURE AND PRESSURE RELIEF
(E)C.D	(E)C.D	EXISTING CONDENSATE DRAIN		T.P.	TRAP PRIMER
	E.D.F.	ELECTRIC DRINKING FOUNTAIN		(TYP)	TYPICAL
	E.W.H.	ELECTRIC WATER HEATER		UR.	URINAL
	F.C.O.	FLOOR CLEANOUT		V.O.	VENT OFFSET
	F.D.	FLOOR DRAIN		V.T.R.	VENT THRU ROOF
	FLR.	FLOOR	(E) W.	(E) W.	EXISTING WASTE
	F.S.	FLOOR SINK		W.	WASTE
G.	G.	GAS		W.C.	WATER CLOSET
(E) G.	(E) G.	EXISTING GAS		W.H.	WATER HEATER
	G.D.	GARBAGE DISPOSAL		W.C.O.	WALL CLEANOUT

General Project Note:

1. Coordination of work: Layout of materials, equipment and systems is generally diagrammatic unless specifically dimensioned. Some work may be shown offset for clarity. The actual location of all materials, piping, ductwork, fixtures, equipment, supports, etc. shall be carefully planned, prior to installation of any work to avoid all interferences with each other, or with structural, fire sprinkler, electrical, architectural or other elements. Verify the proper voltage and phase of all equipment with the electrical plans. All conflicts shall be called to the attention of the architect and the engineer prior to the installation of any work or the ordering of any equipment.

2. Cutting, boring, saw cutting or drilling through the new or existing structural elements to be done only when so detailed in the drawings or accepted by the Architect and Structural engineer with the approval of DSA representative.



OVERALL PLUMBING DEMOLITION PLAN

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

BASKIN MECHANICAL ENGINEERS
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LICENSED ARCHITECT C-26053 Ren. Date 08/31/2027 STATE OF CALIFORNIA

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ROSAMOND HIGH EARLY COLLEGE CAMPUS
2925 WEST ROSAMOND BLVD.
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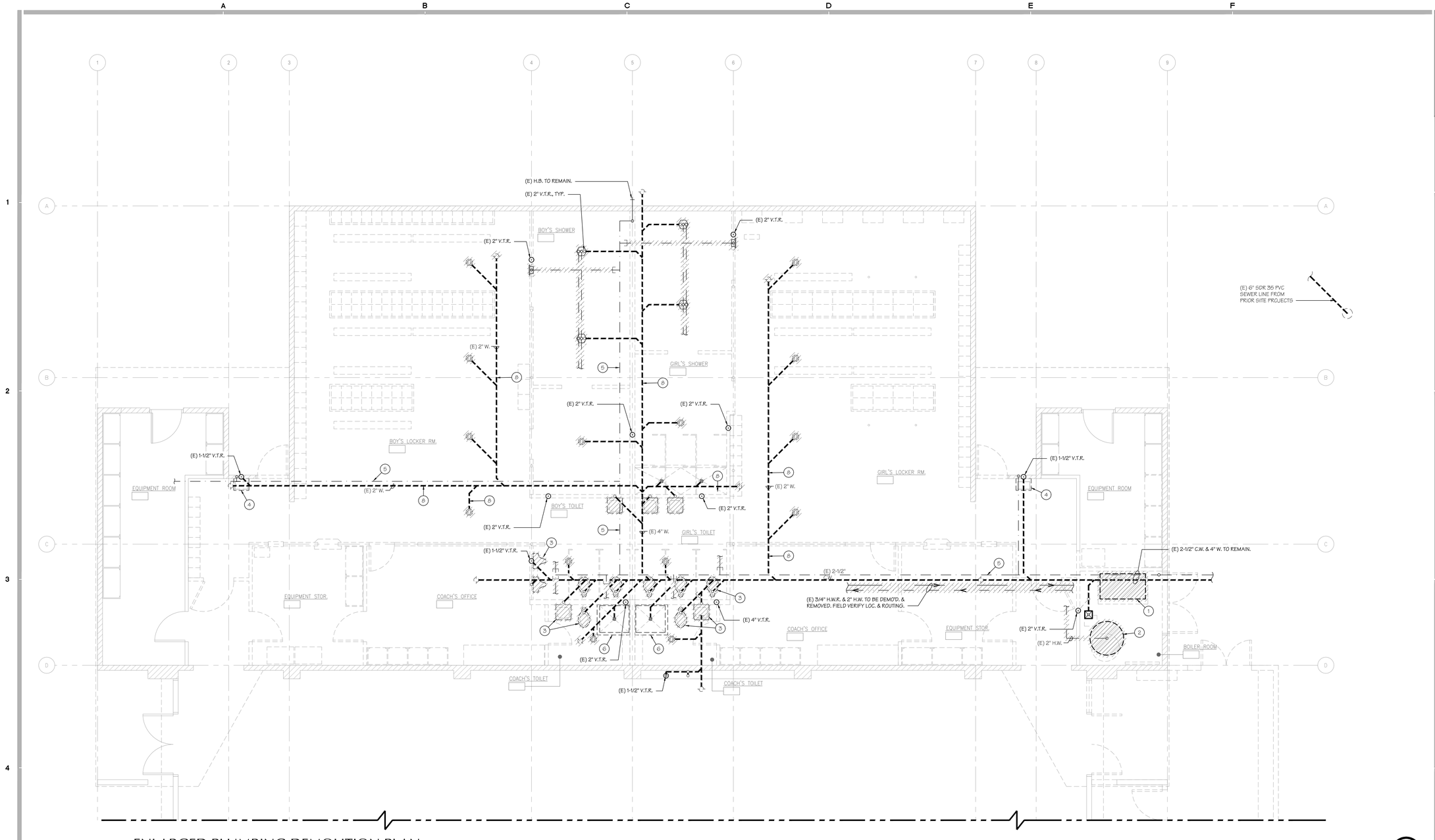
GYMNASIUM OVERALL PLUMBING DEMOLITION PLAN

Job No. 3139
Date 6.25.2024

P2.01



ENLARGED PLUMBING DEMOLITION PLAN

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

A

PLUMBING DEMOLITION KEYNOTES:

1. DEMO (E) BOILER & ASSOCIATED PIPING CAP GAS, FLUE, CAP MAKE UP WATER AT BRANCH.
2. DEMO (E) H.W. STORAGE TANK.
3. DEMO ALL PLUMBING FIXTURES C.W., H.W., VENTS BACK TO V.T.R.
4. DEMO (E) DF MODIFY C.W. AS REQ'D. FOR (N) EDF.
5. (E) C.W. TO REMAIN.
6. DEMO (E) SHOWER FIXTURES.
7. DEMO (E) WATER & CAP AT MAIN.
8. (E) WASTE TO BE ABANDONED IN PLACE (TYP)

BASKIN MECHANICAL ENGINEERS
2131 19th St, Suite B
Bakersfield, CA 93301
Tel: (661) 397-2114
Job: 24096
Plt: 02-11-26

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125472 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/30/2026

FLEWELLING & MOODY
architecture planning interiors

HEADQUARTERS OFFICE:
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Los Angeles, CA 90041
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An Employee Owned Corporation

ARCHITECT

LICENSED ARCHITECT
MARK JAMES BAGWELL
C-26053
Ren. Date 08/31/2027
STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
MARK JAMES BAGWELL
No. M25578
Exp. 9-30-26
MECHANICAL
STATE OF CALIFORNIA

Drawn by _
Checked by _

Revisions

No.	Date	Description
-		

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

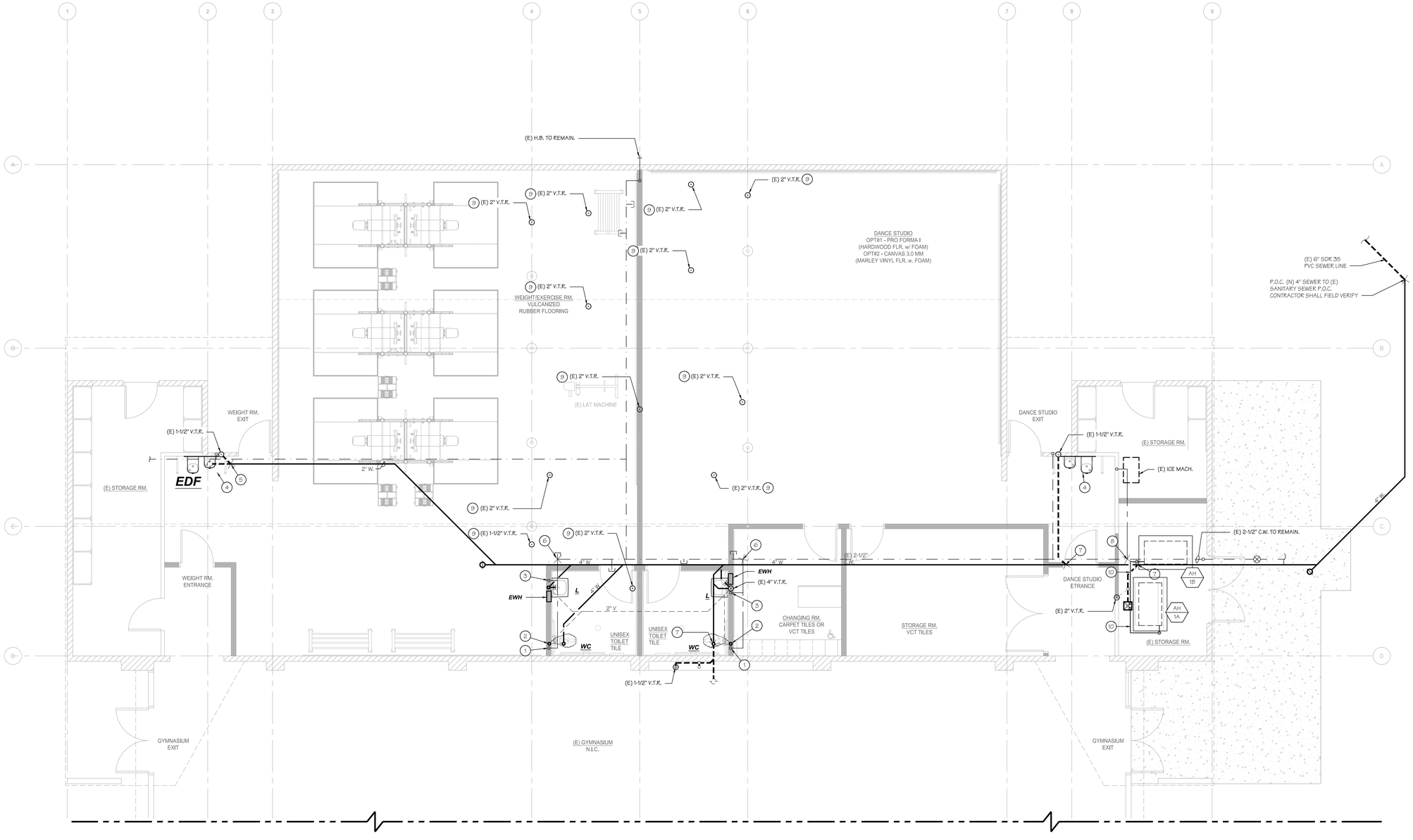
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

ENLARGED PLUMBING DEMOLITION PLAN

Job No. 3139

Date 6.25.2024

P2.02



ENLARGED PLUMBING PLAN

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

A

PLUMBING KEYNOTES:

1. 1-1/4" C.W. DROP TO WC REDUCE TO 1" AT FLUSH VALVE, PROVIDE WATER HAMMER ARRESTER & WALL ACCESS PANEL
2. 4" W, 2" V.O., TYP.
3. 3/4" C.W. W/1/2" C.W. TO FAUCET & EWH, 2" W, 2" WCO,1-1/4" VO
4. MODIFY (E) WASTE, & CW AS REQ'D FOR INSTALLATION OF (N) EDF
5. P.O.C. (E) 2" WASTE TO (N) 2" WASTE
6. P.O.C. (N) 1-1/2" C.W. TO (E) 2" C.W.
7. P.O.C. (E) 2" W TO (N) 4" W
8. P.O.C. (N)1/2" CW TO (E) 2-1/2" CW, ROUTE & PROVIDE CONNECTION TO (E) ICE MACHINE, FIELD VERIFY EXACT LOCATION
9. CAP (E) VTR BELOW ROOF TYP.
10. 3/4" TYPE L COPPER CONDENSATE DRAIN ROUTE TO (E) FLOOR SINK W/1" AIR GAP

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SCHOOL DISTRICT

ROSAMOND HIGH EARLY
COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

ENLARGED
PLUMBING PLAN

Job No.
3139

Date
6.25.2024

P2.03

APPLICABLE CODE: 2022 CBC

MEP COMPONENT ANCHORAGE NOTE

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

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

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

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

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURE 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.

MEP DISTRIBUTION SYSTEM BRACING NOTE FOR PIPING, DUCTWORK AND ELECTRICAL CONDUIT:

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTIONS 13.6.5, 13.6.6, 13.6.7 AND 13.6.8 AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEMS ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.

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

MP ☐ MD ☐ PP ☐ E ☒ OPTION 1: PROJECT-SPECIFIC DESIGN.
MP ☐ MD ☐ PP ☐ E ☐ OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL
MP ☐ MD ☐ PP ☐ E ☐ OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL

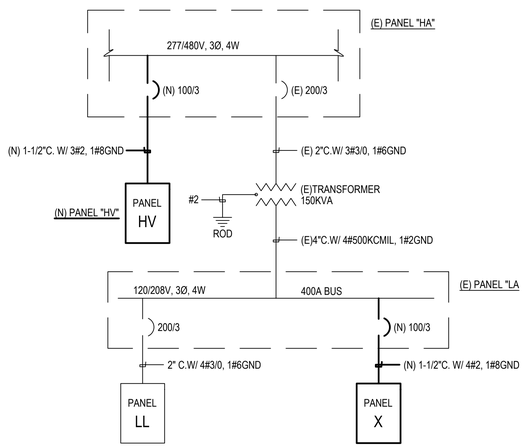
APPLICABLE CODE REQUIREMENTS

PERFORMANCE OF THE WORK OF THIS CONTRACT SHALL CONFORM TO THE REQUIREMENTS OF APPLICABLE GOVERNING CODES AND ORDINANCES INCLUDING THE FOLLOWING:

2022	BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.
2022	CALIFORNIA BUILDING CODE, PART 2, TITLE 24 C.C.R. (2022 IBC, VOLUMES 1-3 WITH CALIFORNIA AMENDMENTS)
2022	CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24 C.C.R. (2020 N.E.C. WITH CALIFORNIA AMENDMENTS)
2022	CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 C.C.R (2021 U.M.C. WITH CALIFORNIA AMENDMENTS)
2022	CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 C.C.R. (2020 U.P.C. WITH CALIFORNIA AMENDMENTS)
2022	CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
2022	CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2022 I.F.C. WITH CALIFORNIA AMENDMENTS)
2022	CALIFORNIA EXISTING BUILDING CODE (CEBC), PAR 10, TITLE 24 C.C.R.
2022	CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
2022	CALIFORNIA BUILDING CODE CHAPTER 35
2022	CALIFORNIA FIRE CODE CHAPTER 80
2022	CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R. TITLE 19 C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
NFPA 13	AUTOMATIC SPRINKLER SYSTEM ----------2022 EDITION
NFPA 14	STANDPIPE SYSTEM ----------2019 EDITION
NFPA 17A	WET CHEMICAL SYSTEM ----------2021 EDITION
NFPA 24	PRIVATE SERVICE MAINS ----------2022 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE ----------2022 EDITION (NOTE SEE UL STANDARDS 1971 FOR ("VISUAL DEVICES")

EXISTING ELECTRICAL SERVICES HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITION SHOWN ON THESE PLANS
SITE INSPECTOR IS TO WITNESS AND VERIFY GROUNDING TESTS

REGISTERED PROFESSIONAL ENGINEER — JAMES M. PETERSEN — EXP. 08/31/2027 — ELECTRICAL — STATE OF CALIFORNIA



SINGLE LINE DIAGRAM — A E0.1

SCALE : NONE

GENERAL NOTES

1. VISIT JOB SITE AND VERIFY EXISTING CONDITIONS PRIOR TO BID.
2. THE ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2022 CALIFORNIA ELECTRICAL CODE AND ALL APPLICABLE LOCAL ORDINANCES. WHERE PLANS CALL FOR A HIGHER STANDARD THAN APPLICABLE CODES, THE PLANS SHALL GOVERN.
3. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS.
4. ALL ELECTRICAL EQUIPMENT, APPLIANCES AND LIGHTING FIXTURES SHALL BE LISTED BY A RECOGNIZED TEST LAB AND BEAR THAT LABEL OF APPROVAL.
5. CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT ALL MATERIAL AND EQUIPMENT FOR THIS WORK UNLESS OTHERWISE NOTED.
6. FURNISH DISCONNECT SWITCHES AT REMOTE MOTORS.
7. ALL SPACES AS INDICATED ON PANELS OR SWITCHBOARDS SHALL BE COMPLETE WITH HARDWARE AND BUSSING FOR FUTURE BREAKER OR SWITCH.
8. GROUNDING AND BONDING SHALL BE PER CODE PLUS ANY ADDITIONAL PROVISIONS SPECIFIED OR SHOWN ON DRAWINGS.
9. ALL CONDUIT RUNS SHALL CONTAIN A CODE SIZED GREEN GROUND WIRE..
10. ALL CONDUCTORS SHALL BE IN CONDUIT.
11. ALL CONDUCTORS SHALL BE COPPER WITH TYPE THHN/THWN INSULATION.

ACCESSIBILITY NOTES
Installation of switches, outlets and controls to reflect the accessibility requirements of the 2022 CBC Chapters 11A and 11B for Accessibility.

1. CBC 11B-308.1.1 Electrical controls and switches intended to be used by the occupant of a room or area shall be located within the allowable reach ranges. Low reach shall be measured from the bottom of the outlet box and high reach is measured to the top of the outlet box.

2. CBC 11B-308.1.2 Electrical receptacle outlets on branch circuits of 30 amperes or less and communication system receptacles shall be located in the allowable reach range. Low reach shall be measured from the bottom of the outlet box and high reach is measured to the top of the outlet box.

3. CBC 11B-308.2.1 High forward reach that is unobstructed shall be 48 inches maximum and the low forward reach shall be 15 inches minimum above finish floor or ground.

4. CBC 11B-308.2 Forward Reach Obstructed - Electrical receptacle outlets shall be located no more than 44 inches measured from the top of the receptacle outlet box when the obstruction is over 20" and does not exceed 25". When the depth is less than 20" height can be increased to 48". (desk counters)

5. CBC 11B-308.3 Side Reach Obstructed - Electrical receptacle outlets shall be located no more than 46 inches measured from the top of the receptacle outlet box when the obstruction is over 10" and does not exceed 24". When the depth is less than 10" height can be increased to 48".

6.Overhang light fixtures or wall fixtures projecting more than 4" from the wall surface shall be a minimum of 80" above the walking surface.

APPLICABLE CODE: 2022 CBC

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PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING

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ELECTRICAL DISTRIBUTION SYSTEMS (E):

DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

SYMBOLS

	CONDUIT EXISTING
	CONDUIT CONCEALED IN WALL OR CEILING
	CONDUIT CONCEALED UNDER FLOOR OR BELOW GRADE
	CONDUIT STUBBED OUT AND CAPPED
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	HATCH MARKS INDICATE NO. OF #12 WIRES IN CODE SIZED CONDUIT (3) MAX. IN 1/2" C., (5) MAX. IN 3/4" C., (8) MAX. IN 1"C., NO MARKS = 2#12
A-3	HOME RUN: LETTER INDICATES PANEL, NUMBER(S) INDICATES CIRCUIT(S).
	SAWCUT
	GROUND CONNECTION
	DISTRIBUTION SWITCHBOARD OR PANEL
	PANEL, BRANCH CIRCUIT TYPE, SURFACE AND FLUSH
	SIGNAL TERMINAL CABINET, SURFACE & FLUSH
	LINEAR SURFACE FIXTURE
2 a	OUTLET DATA: BAR INDICATES WALL MOUNT, LETTER INDICATES SWITCH CONTROL, NO. INDICATES CIRCUIT.
	SURFACE FIXTURE ON FLUSH OUTLET.
	RECESSED FIXTURE WITH JUNCTION BOX FOR THRU WIRING
	EXIT LIGHT WITH ARROWS AS SHOWN ON PLANS, WALL AND CEILING MOUNT.
	LOW LEVEL EXIT SIGN, +6" AFF, +4" FROM DOOR JAMB
A 100	LIGHT FIXTURE DESIGNATION, LETTER INDICATES TYPE, NO. INDICATES WATTAGE. SEE FIXTURE SCHEDULE.
FC 1	MECHANICAL EQUIPMENT DESIGNATION. SEE MECHANICAL DRAWINGS.
	SPECIAL RECEPTACLE - SEE PLAN
M	METER
	FLUSH FLOOR RECEPTACLE
	RECEPTACLE, DUPLEX, 15A, 125V, NEMA 5-15R +18" U.N.O.
	DUPLEX RECEPTACLE MTD. ABOVE BACKSPLASH
	DUPLEX RECEPTACLE W/LOWER HALF SWITCHED
GFI	GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	CEILING RECEPTACLE
	RECEPTACLE, DUPLEX, 20A, 125V, NEMA 5-20R +18" U.N.O.
J	JUNCTION BOX 4" SQUARE, 1-1/2" DEEP U.N.O.
T	THERMOSTAT F.B.O. +48"
2	MOTOR, NO. INDICATES HORSEPOWER
	CLOCK OUTLET +7'-6" U.N.O.
	DISCONNECT SWITCH, NON-FUSED
F	DISCONNECT SWITCH FUSED HORSEPOWER RATED OR SIZED AS NOTED
	COMBINATION MAGNETIC STARTER WITH DISCONNECT SWITCH AND FUSES
	MAGNETIC MOTOR STARTER W/OVERLOADS IN EACH PHASE
D	DIMMER W/INTEGRAL "ON-OFF" SW.
	PUSHBUTTON
PC	PHOTOCELL
SD	SMOKE DETECTOR
	TELEPHONE/COMPUTER/DATA OUTLET, TWO GANG BOX W/1 GANG COVERPLATE & GROMMETED OPENING +18" U.N.O.
	CABLE TV OUTLET +18" U.N.O.
M	MOTION SENSOR
$	EXISTING SWITCH
S	SINGLE POLE SWITCH
^{2}	DOUBLE POLE SWITCH
^{3}	THREE WAY SWITCH
^{P}	SWITCH W/PILOT LT.
^{M}	MANUAL MOTOR STARTER

(S, ^{2}, ^{3}, ^{P}: QUIET TOGGLE TYPE RATED AT 20A, 120/277V A.C. +42" U.N.O.)

FACP	FIRE ALARM CONTROL PANEL
GFI	GROUND FAULT CIRCUIT INTERRUPTING
LST	LABOR SAVING TANDEM
MLO	MAIN LUGS ONLY
w/	WITH
C.O.	CONDUIT ONLY
W.P.	WEATHERPROOF
F.B.O.	FURNISHED BY OTHERS, INSTALL & CONNECT
U.N.O.	UNLESS NOTED OTHERWISE
N.E.C.	NATIONAL ELECTRICAL CODE
N.I.C.	NOT IN CONTRACT
(E)	EXISTING
(N)	NEW
(R)	REMOVE
(RL)	RELOCATE
S/M	SURFACE MOUNT
U/G	UNDERGROUND
CWP	COLD WATER PIPE
AFF	ABOVE FINISHED FLOOR
HACR	HEATING AND AIR CONDITIONING RATED CIRCUIT BREAKER
N.L.	NIGHT LIGHT

NOTE: NOT ALL SYMBOLS SHOWN ARE USED ON THIS PROJECT.

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ARCHITECT

LICENSED ARCHITECT — C-26053 — Rev. Date 08/31/2027 — STATE OF CALIFORNIA

CONSULTANT

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REGISTERED PROFESSIONAL ENGINEER — JAMES M. PETERSEN — EXP. 08/31/2027 — ELECTRICAL — STATE OF CALIFORNIA

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ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

GENERAL NOTES, SYMBOLS, SCHEDULES & DETAILS

Job No.
3139

Date
2.11.2026

E0.1

FIRE ALARM SEQUENCE OF OPERATION

INPUT & OUTPUT MATRIX		SYSTEM INPUTS: AREA SMOKE DETECTOR	AREA HEAT DETECTOR	FIRE ALARM SYSTEM AC POWER FAILURE	FIRE ALARM SYSTEM LOW BATTERY	OPEN CIRCUIT	GROUND FAULT	NOTIFICATION APPLIANCE CIRCUIT SHORT
SYSTEM OUTPUTS								
Control Unit Annunciation	ACTUATE COMMON ALARM SIGNAL INDICATOR (RED LED)	●	●					
	ACTUATE AUDIBLE ALARM SIGNAL (PIEZO BUZZER)	●	●					
	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR (AMBER LED)							
	ACTUATE AUDIBLE SUPERVISORY SIGNAL (PIEZO BUZZER)							
	ACTUATE COMMON TROUBLE SIGNAL INDICATOR (AMBER LED)			●	●	●	●	●
	ACTUATE AUDIBLE COMMON TROUBLE SIGNAL (PIEZO BUZZER)			●	●	●	●	●
Notification	ACTUATE EVACUATION SIGNAL THROUGHOUT THE BUILDING SPEAKERS & SPEAKER/STROBES	●	●					
	TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION	●	●					
	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION							
	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION			●	●	●	●	●
Supplementary								

FIRE ALARM SYMBOLS LIST MATRIX

	SYMBOL	DEVICE	MFR & CAT#	REMARKS	CSFM LISTING
(E)	■	MAIN FIRE ALARM PANEL	NOTIFIER NFS2-640	SURFACE MOUNT W/ SOFTWARE UPDATE	7165-0028:0243
(E)	DVC	DIGITAL VOICE COMMAND	NOTIFIER DVC-EMF	SURFACE MOUNT PART OF NFS2-320	7165-0028:0224
(E)	DAA-5025	DIGITAL AUDIO AMPLIFIER	NOTIFIER DAA-5025	PART OF DVC PART OF NFS2-320	7165-0028:0224
(E)	DAC	FIRE ALARM COMMUNICATOR	NOTIFIER 411UDAC	PART OF NFS2-320	7300-0075:0174
(N)	SD	SMOKE DETECTOR	NOTIFIER FSP-951	PROVIDE BASE B210 LP(A) ON 4"SQ. DEEP BOX	7272-0028:0503
(N)	HD	HEAT DETECTOR (IN ATTIC SPACE)	NOTIFIER FST-951H	PROVIDE BASE B210 LP(A) ON 4"SQ. DEEP BOX	7270-0028:0502
(N)	S WP	EXTERIOR SPEAKER WALL MOUNT	SYSTEM SENSOR SPRK(A)	PROVIDE MWBB BACKBOX	7320-1653:0201
(E)	F	ADDRESSABLE MANUAL PULL STATION	NOTIFIER NBG-12LX	PROVIDE 4" SQ. DEEP BOX	7150-0028:0199
(N)	AV	SPEAKER STROBE CEILING MOUNT	SYSTEM SENSOR SPSCR	PROVIDE SPBBSC(A) BACK BOX & 4"SQ. DEEP BOX	7320-1653:0201
(N)	V	STROBE	NOTIFIER SR	PROVIDE 4" SQ. DEEP BOX	7125-1653:0186
(N)	RM	RELAY MODULE	NOTIFIER FRM-1	FAN SHUTDOWN	7300-0028:0219
(E)	DPM	ADDRESSIBLE DPM	NOTIFIER ACPS-24	S/M	7165-0028:0125

PROVIDE ALL NETWORK CARDS, MODULES & COMPONENTS NEEDED FOR A COMPLETE AND OPERABLE SYSTEM.

VOLTAGE DROP CALCULATIONS

CIRCUIT	2x	LENGTH x	AMPS x	RESISTANCE x	= VOLTS	VOLTAGE DROP
N1	2	400	0.948	0.00205	1.555	6.48 %

CENTRAL STATION MONITORING	
COMPANY NAME:	TEL-TEC SECURITY SYSTEMS, INC.
PHONE:	661-397-5511
LIC. #:	472338
U.L CERTIFICATE:	#S4626

SCOPE OF WORK

THIS IS AN ADDITION TO A COMPLETELY AUTOMATIC AND ADDRESSABLE FIRE ALARM AND EMERGENCY VOICE ALARM COMMUNICATION SYSTEM. INSTALL DEVICES AS SHOWN IN EQUIPMENT LEGEND AND FLOORPLANS OF THIS DRAWING PACKAGE. UPON COMPLETION A COMPLETE PRETEST SHALL BE PERFORMED TO VERIFY FUNCTIONALITY. IF THE FUNCTIONALITY IS COMPLETE THEN THE PROPER DOCUMENTATION SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION PRIOR TO SCHEDULING A FINAL INSPECTION.

DEVICE NUMBERING LEGEND

FOR ADDRESSABLE ALARM INITIATING DEVICES

EXAMPLE: SD 1-01 (DEVICE ADDRESS)

- DEVICE REFERENCE NUMBER
- INITIATING LOOP DESIGNATION
- DEVICE SYMBOL

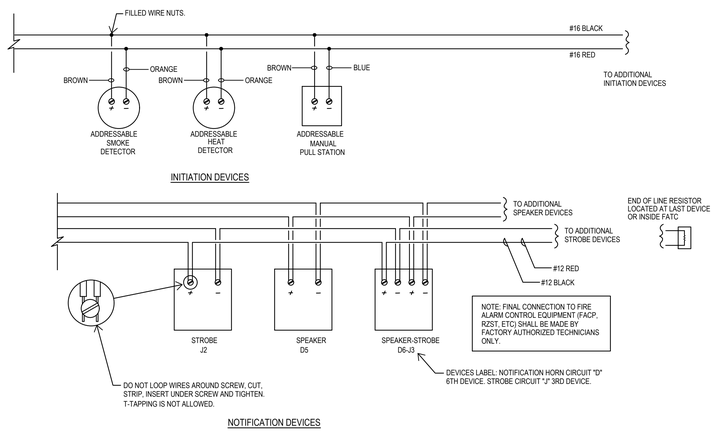
ABOVE EXAMPLE MEANS 1st DEVICE ON LOOP 1

FOR ALARM INDICATING DEVICES

EXAMPLE: AV N1A1-1

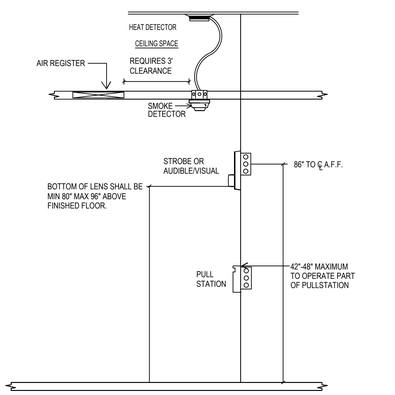
- DEVICE REFERENCE NUMBER
- INDICATES FLOOR
- INDICATES CIRCUIT DESIGNATION
- INDICATES TYPE OF CIRCUIT (S = STROBE, H = SPEAKER)
- DEVICE SYMBOL

ABOVE EXAMPLE MEANS NOTIFICATION CIRCUIT A1, DEVICE #1



FIRE ALARM DEVICES TYPICAL WIRING DIAGRAM (B)

SCALE: NONE



FIRE ALARM MOUNTING DETAIL (A)

SCALE: NONE

EXISTING FIRE ALARM BATTERY CALCULATION-RPS NOTIFIER #PSE-6

DPM-A EQUIPMENT DESCRIPTION		QUANTITY EXISTING	QUANTITY NEW	SUPERVISORY CURRENT (AMPERES) EACH	SUPERVISORY CURRENT (AMPERES) SUB-TOTAL	ALARM CURRENT (AMPERES) EACH	ALARM CURRENT (AMPERES) SUB-TOTAL
RPS NOTIFIER #PSE-6		1	0	0.065	0.065	0.145	0.145
FCM-1		1	0	0.0003	0.0003	0.0003	0.0003
VISUALS	110 cd	1	0	0	0	0.148	0.148
VISUALS	15 cd	11	0	0	0	0.043	0.473
VISUALS	75 cd	9	0	0	0	0.111	0.999
SUB TOTAL AMPERES				0.0653 AMPS		1.7653 AMPS	
				x 24 HOURS		X 0.25 HOURS	
SUB TOTAL AMPERE-HOURS				1.5672 A.H.		0.441325 A.H.	
TOTAL REQUIRED AMPERE-HOURS FOR DISTRIBUTED POWER MODULE						2.008525 A.H.	
BATTERY NON-LINEAR DISCHARGE CHARACTERISTIC FACTOR						x 1.2	
TOTAL MINIMUM AMPERE HOURS REQUIRED						2.41023 A.H.	
PROVIDED BATTERY CAPACITY						18.00 A.H.	

EXISTING VOICE PANEL BATTERY CALCULATION – DVC NFS2-3030

S1 & S2 & S3 EQUIPMENT DESCRIPTION	QUANTITY EXISTING	QUANTITY NEW	SUPERVISORY CURRENT (AMPERES) EACH	SUPERVISORY CURRENT (AMPERES) SUB-TOTAL	ALARM CURRENT (AMPERES) EACH	ALARM CURRENT (AMPERES) SUB-TOTAL	AMPLIFIER CURRENT (AMPERES) EACH	AMPLIFIER CURRENT (AMPERES) SUB-TOTAL
DVC	1	0	0.44	0.44	0.44	0.44	0	0
DAA 5025	1	0	0.35	0.35	0	0	1.9	0
NCA	1	0	0.4	0.4	0.4	0.4	0	0
¼ Watt Speaker	8	2	0	0	0.017	0.17	0	0
½ Watt Speaker	0	0	0	0	0.034	0	0	0
1 Watt Speaker	10	2	0	0	0.068	0.816	0	0
2 Watt Speaker	9	3	0	0	0.132	1.584	0	0
SUB TOTAL AMPERES			1.19 AMPS		3.41 AMPS		0 AMPS	
			x 24 HOURS		X 0.25 HOURS		X 2 HOURS	
SUB TOTAL AMPERE-HOURS			28.56 A.H.		0.8525 A.H.		0 A.H.	
TOTAL REQUIRED AMPERE-HOURS FOR DISTRIBUTED POWER MODULE							29.4125 A.H.	
BATTERY NON-LINEAR DISCHARGE CHARACTERISTIC FACTOR							x 1.2	
TOTAL MINIMUM AMPERE HOURS REQUIRED							35.295 A.H.	
PROVIDED BATTERY CAPACITY							18.00 A.H.	

EXISTING FACP BATTERY CALCULATION MFACP-F, NFS2-3030

EQUIPMENT DESCRIPTION		QUANTITY EXISTING	QUANTITY NEW	SUPERVISORY CURRENT (AMPERES) EACH	SUPERVISORY CURRENT (AMPERES) SUB-TOTAL	ALARM CURRENT (AMPERES) EACH	ALARM CURRENT (AMPERES) SUB-TOTAL
FIRE ALARM PANEL		1	0	0.2	0.2	0.555	0.555
DIGITAL ALARM COMMUNICATOR		1	0	0.04	0.04	0.04	0.04
FDM-1		16	0	0.00075	0.012	0.0064	0.1024
Pull Station		6	0	0.0003	0.0018	0.0005	0.003
SMOKE DETECTOR		39	13	0.00039	0.02028	0.00039	0.02028
HEAT DETECTOR		16	18	0.00035	0.0119	0.00035	0.0119
¼ Watt Speaker		0	2	0	0	0.017	0.034
½ Watt Speaker		0	0	0	0	0.034	0
1 Watt Speaker		0	2	0	0	0.068	0.136
2 Watt Speaker		0	3	0	0	0.132	0.396
VISUALS	15 cd	0	2	0	0	0.066	0.132
VISUALS	30 cd	0	0	0	0	0.077	0
VISUALS	75 cd	0	2	0	0	0.158	0.316
SUB TOTAL AMPERES				0.28598 AMPS		1.74658 AMPS	
				x 24 HOURS		X 0.25 HOURS	
SUB TOTAL AMPERE-HOURS				6.86352 A.H.		0.436645 A.H.	
TOTAL REQUIRED AMPERE-HOURS FOR DISTRIBUTED POWER MODULE						7.300165 A.H.	
BATTERY NON-LINEAR DISCHARGE CHARACTERISTIC FACTOR						x 1.2	
TOTAL MINIMUM AMPERE HOURS REQUIRED						8.760198 A.H.	
PROVIDED BATTERY CAPACITY						36.00 A.H.	

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

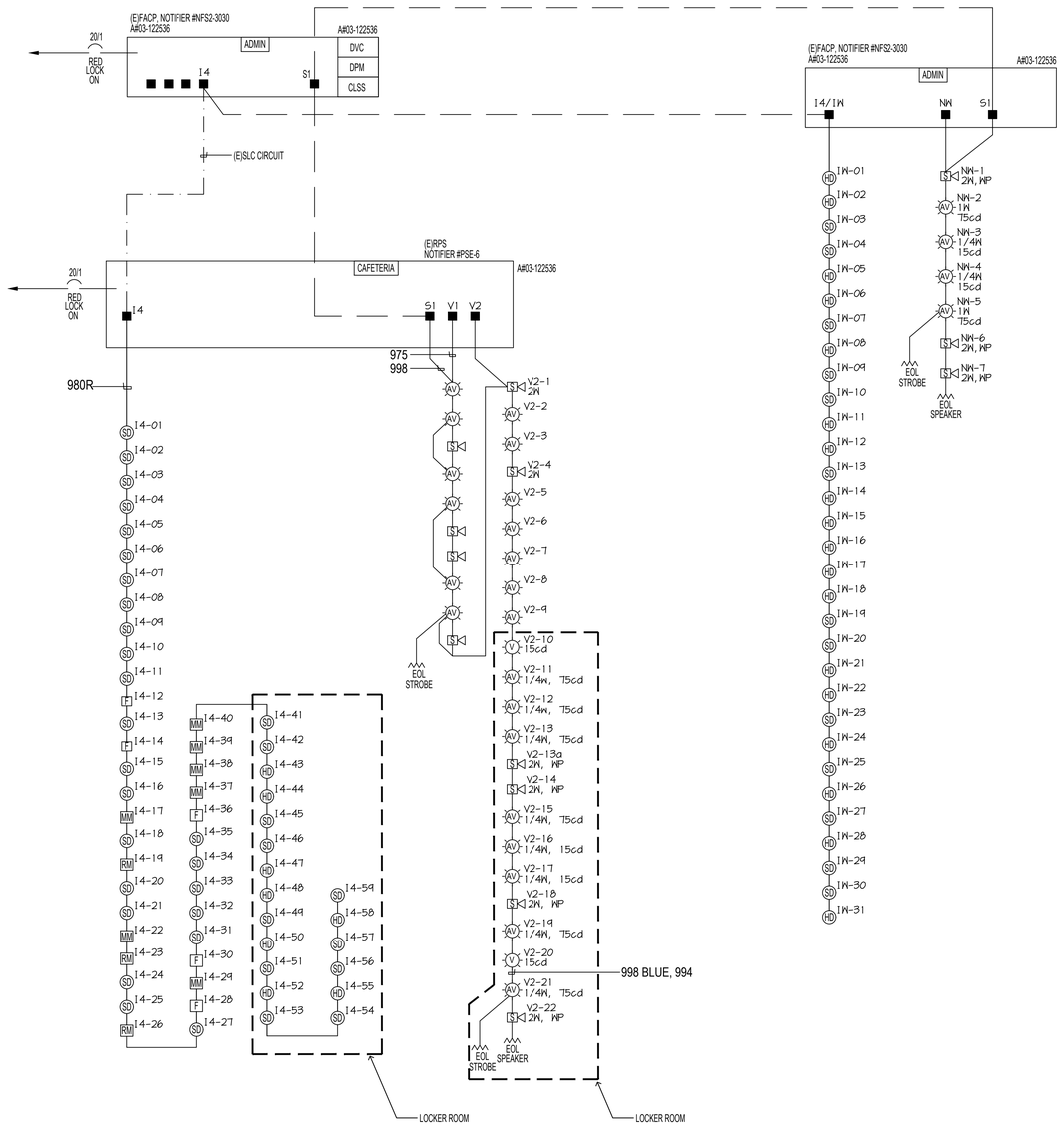
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

FIRE ALARM CALCULATIONS AND DETAILS

Job No.
3139

Date
2.11.2026

E0.2



FIRE ALARM RISER DIAGRAM

FIRE ALARM NOTES

1. APPLICABLE STANDARD NFPA 72, AS ADOPTED AND AMENDED IN CBC CHAPTER 35.
2. INSTALLATION OF THE SYSTSEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY DSA.
3. UPON COMPLETION OF SYSTEM INSTALLATION, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.
4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.
6. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
7. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
8. WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
9. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THAN 6" TO A HORIZONTAL STRUCTURE.
10. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBLES (DBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR FIVE DBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIABLE SPACE WITHIN THE BUILDING.
11. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
12. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
13. VISIBLE DEVICES SHOULD NOT EXCEED TWO FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELLA. VISIBLE DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
15. ALL FIRE ALARM WIRING SHALL BE FPLOR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE THHN OR THWN.
16. PER CEC STANDARDS, ALL WIRING TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLIACE THE WIRE. ALL BOXES TO BE SIZED PER CEC.
17. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1" FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM, DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED VER TO THE OWNER.
18. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
19. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
20. A DEDICATED BRANCH CIRUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL" CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
21. THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED "SYSTEM RECORD OF COMPLETION" PER NFPA 72, FIGURE 17.8.2.
22. FIRE ALARM CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48" ABOVE THE FINISHED FLOOR.
23. MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.
24. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
25. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
26. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
27. FIRE ALARM SYSTEM SHALL BE COMPLETE WITH ALL NECESSARY NETWORK CARDS, MODULES & COMPONENTS TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.

FIRE WATCH, FIRE MARSHAL REQUIREMENTS;

REQUIREMENTS FOR DISABLING THE FIRE ALARM SYSTEM;

1. AS REQUIRED BY THE **2022 CALIFORNIA FIRE CODE**, SECTION 901.7, STANDBY PERSONNEL OR SYSTEMS TEMPORARILY "OUT OF SERVICE". THE LOCAL FIRE MARSHAL IS AUTHORIZED TO REQUIRE THE CONTRACTOR TO PROVIDE STANDBY PERSONNEL AS SET FORTH IN THESE SECTIONS, UNTIL THE SYSTEM IS RESTORED TO OPERATION.
2. SUCH INDIVIDUAL SHALL BE SUBJECT TO THE LOCAL FIRE MARSHAL'S ORDER AT ALL TIMES WHEN SO EMPLOYED AND SHALL REMAIN ON DUTY DURING THE TIME SUCH PLACES ARE OPEN TO THE PUBLIC OR WHEN SUCH PUBLIC ACTIVITY IS BEING CONDUCTED. FIRE WATCH PERSONNEL SHALL BE PROVIDED WITH AT LEAST ONE APPROVED MEANS FOR NOTIFICATION OF THE FIRE DEPARTMENT.
3. SUCH INDIVIDUALS SHALL KEEP A DILIGENT WATCH FOR FIRES AND BE ABLE TO TAKE PROMPT AND APPROPRIATE ACTION IN THE EVENT OF A FIRE. SUCH INDIVIDUALS SHALL NOT BE REQUIRED OR PERMITTED, WHILE ON DUTY, TO PERFORM ANY OTHER DUTIES THAN THESE HEREIN SPECIFIED.

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SOUTHERN KERN UNIFIED
SCHOOL DISTRICT

ROSAMOND HIGH EARLY
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2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

FIRE ALARM RISER
DIAGRAM AND
PANEL SCHEDULES

Job No.
3139

Date
2.11.2026

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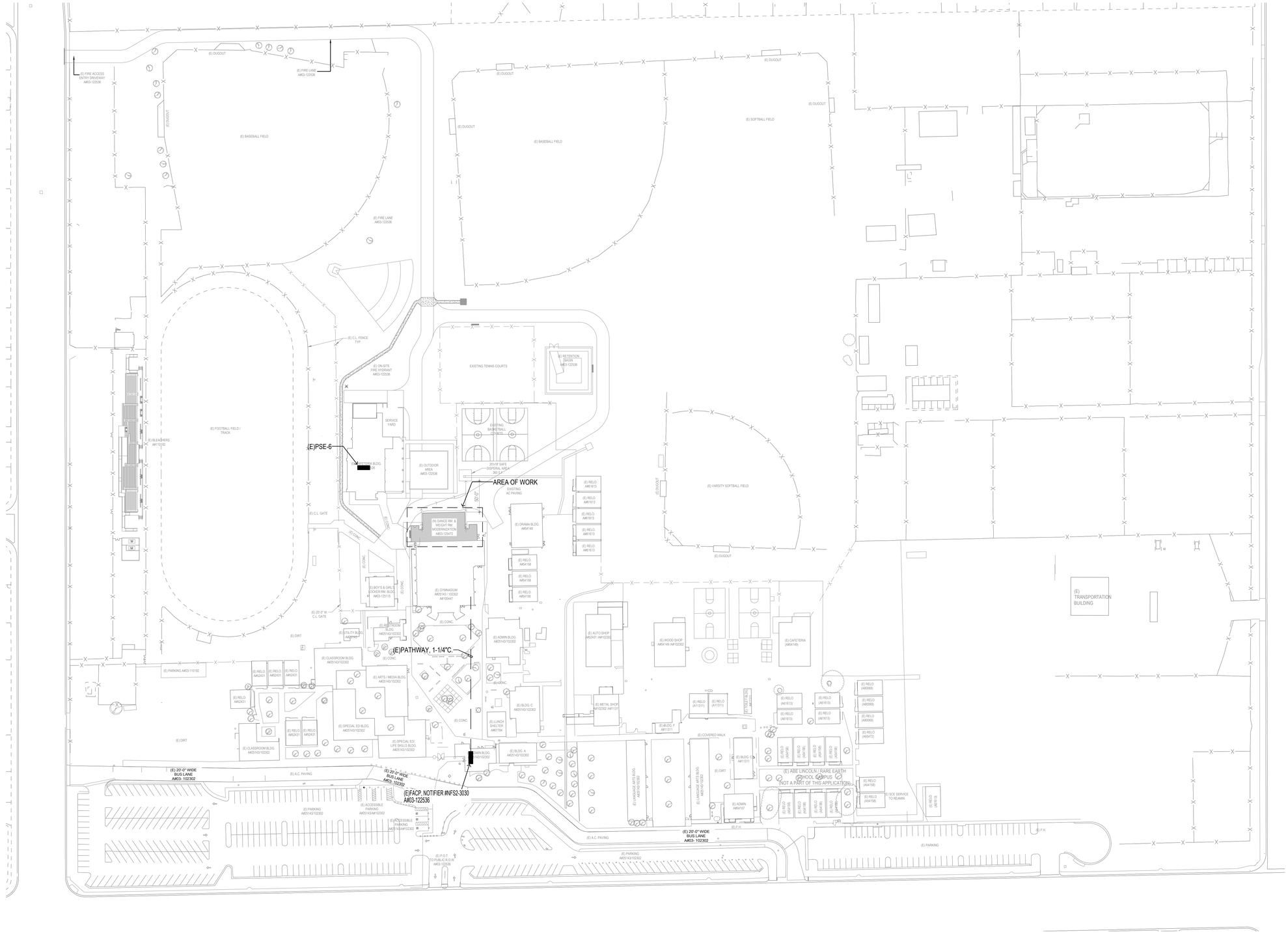

NORTH

FIRE ALARM SITE PLAN

SCALE : 1/64" = 1'-0"

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ROSAMOND, CA 93560

FIRE ALARM SITE PLAN

Job No.
3139

Date
2.11.2026

E1.0

LED FIXTURE SCHEDULE

TYPE	MANUFACTURER AND CATALOG NUMBER	LED MODULE TYPE	LED MODULE COLOR TEMP	LED MODULE WATTS	DRIVER	OPTIC/LENS	REMARKS
A 40	KENALL MLHA848RMWPP67L40KDCCDV		4000K	40	0-10V	PEARLESCENT	4 FT S/M VANDAL WRAP
B 60	MARK SLOT 4 S4SD6FT90CRI30K1200LMFSCTMIN1EGLDMVOLT WHTTZT		3000K	6/10	0-10V	PEARLESCENT	6 FT S/M
C 40	LITHONIATRUM48AL06FMP8SWW2ZTMVOLT		4000K	20	0-10V	PEARLESCENT	4 FT WRAP
X 23	LITHONIA WDGE2LEDP340KVF80CRIMVOLTDDBXD		4000K	23	0-10V	FLAT, CLEAR	WEDGE SCONCE
EM 6	ISOLITE BUG6WH		4000K	6	NICAD BATTERY	PRISMATIC	EM LIGHT
EMV 7	ISOLITE HZN NC 6V22WMBCL67		4000K	7	NICAD BATTERY	NEMA 4X	VANDAL EM LIGHT

(N) PANEL SCHEDULE "XH"

SERVICE: 277/480V 3Φ 4W | MAIN BKR.: MLO | BUS: 100A | LOC.: SEE PLAN | MTG.: SURFACE

REMARKS	LOAD ΦA	LOAD ΦB	LOAD ΦC	REC	LTG	MISC	POLE	TRIP	CIRC	CIRC	TRIP	POLE	REC	LTG	MISC	LOAD ΦA	LOAD ΦB	LOAD ΦC	REMARKS
AH-1A	20					1	3	25	1	2	20	3			1	17			HP-1A
"		20					X	X	3	4	X	X					17		"
"			20				X	X	5	6	X	X						17	"
AH-1B	20					1	3	25	7	8	20	3			1	17			HP-1B
"		20					X	X	9	10	X	X					17		"
"			20				X	X	11	12	X	X						17	"
SPACE									13	14									SPACE
"									15	16									"
"									17	18									"
"									19	20									"
"									21	22									"
"									23	24									"

ΦA= 74 | ΦB= 74 | ΦC= 74

AMPS= 74A + 5A LGST MOTOR = 79A | MINIMUM BKR | A.I.C. RATING= 10,000 AMPS SYM

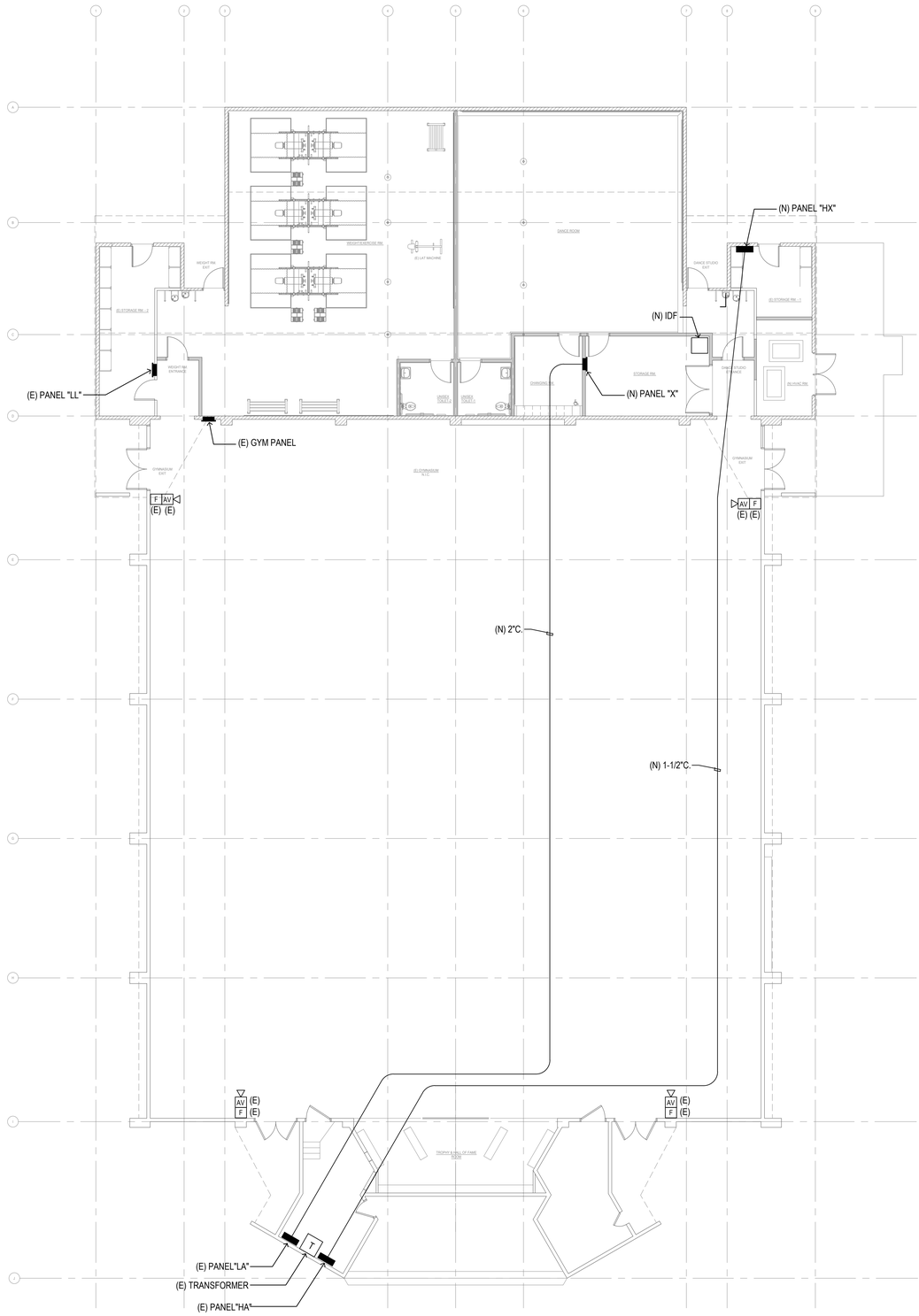
(N) PANEL SCHEDULE "X"

SERVICE: 120/208V 3Φ 4W | MAIN BKR.: MLO | BUS: 100A | LOC.: SEE PLAN | MTG.: FLUSH

REMARKS	LOAD ΦA	LOAD ΦB	LOAD ΦC	REC	LTG	MISC	POLE	TRIP	CIRC	CIRC	TRIP	POLE	REC	LTG	MISC	LOAD ΦA	LOAD ΦB	LOAD ΦC	REMARKS
WEST DANCE REC	360			2			1	20	1	2	20	1							SPARE
EAST DANCE REC		540		2			1	20	3	4	20	1							"
SOUTH DANCE REC			540	3			1	20	5	6	20	1							"
IDF	500			2			1	20	7	8	20	1							"
P/R REC		180		2			1	20	9	10	20	1							"
WEIGHT RM REC			180	1			1	20	11	12	20	1							"
"	360			2			1	20	13	14	20	1							"
"		540		3			1	20	15	16	20	1							"
SPARE							1	20	17	18	20	1							"
"							1	20	19	20	20	1							"
DANCE TS		700		12			1	20	21	22	20	1							"
WEIGHT LTS			600	13	2	1	20	23		24	20	1	1					180	ROOF RECEPTACLE

TOTAL WATTS= 4,680 | ΦA= 1,220 | ΦB= 1,960 | ΦC= 1,500

AMPS= 13A X 1.25 = 17A | MINIMUM BKR | A.I.C. RATING= 10,000 AMPS SYM



NORTH

GYMNASIUM ELECTRICAL PLAN

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

0 1 2 4 8 16

AGENCY

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APP: 03-125472 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/30/2026

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EDWARD MALONEY
EXP. 06/30/2027
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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

GYMNASIUM
ELECTRICAL PLAN

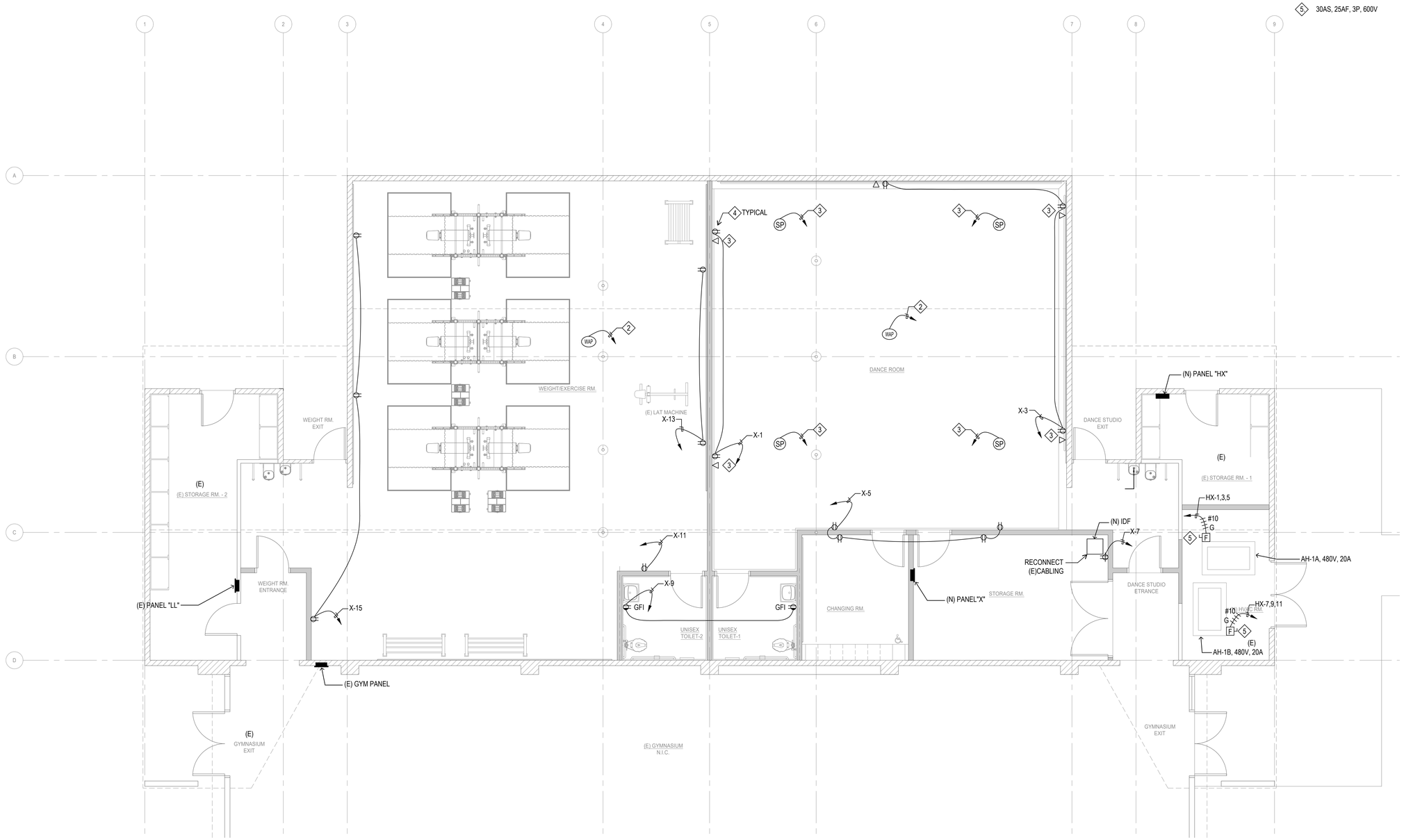
Job No.
3139

Date
2.11.2026

E2.0

LIGHTING NOTES

1. COORDINATE RECEPTACLE LOCATION WITH IDF RACK.
2. (2)CAT6A TO IDF
3. CAT6 CABLE TO IDF.
4. BLACK NEMA 5-20R W/ S/S PLATE
5. 30AS, 25AF, 3P, 600V



NORTH

ENLARGED POWER PLAN

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

0 1 2 4 8

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

ENLARGED POWER PLAN

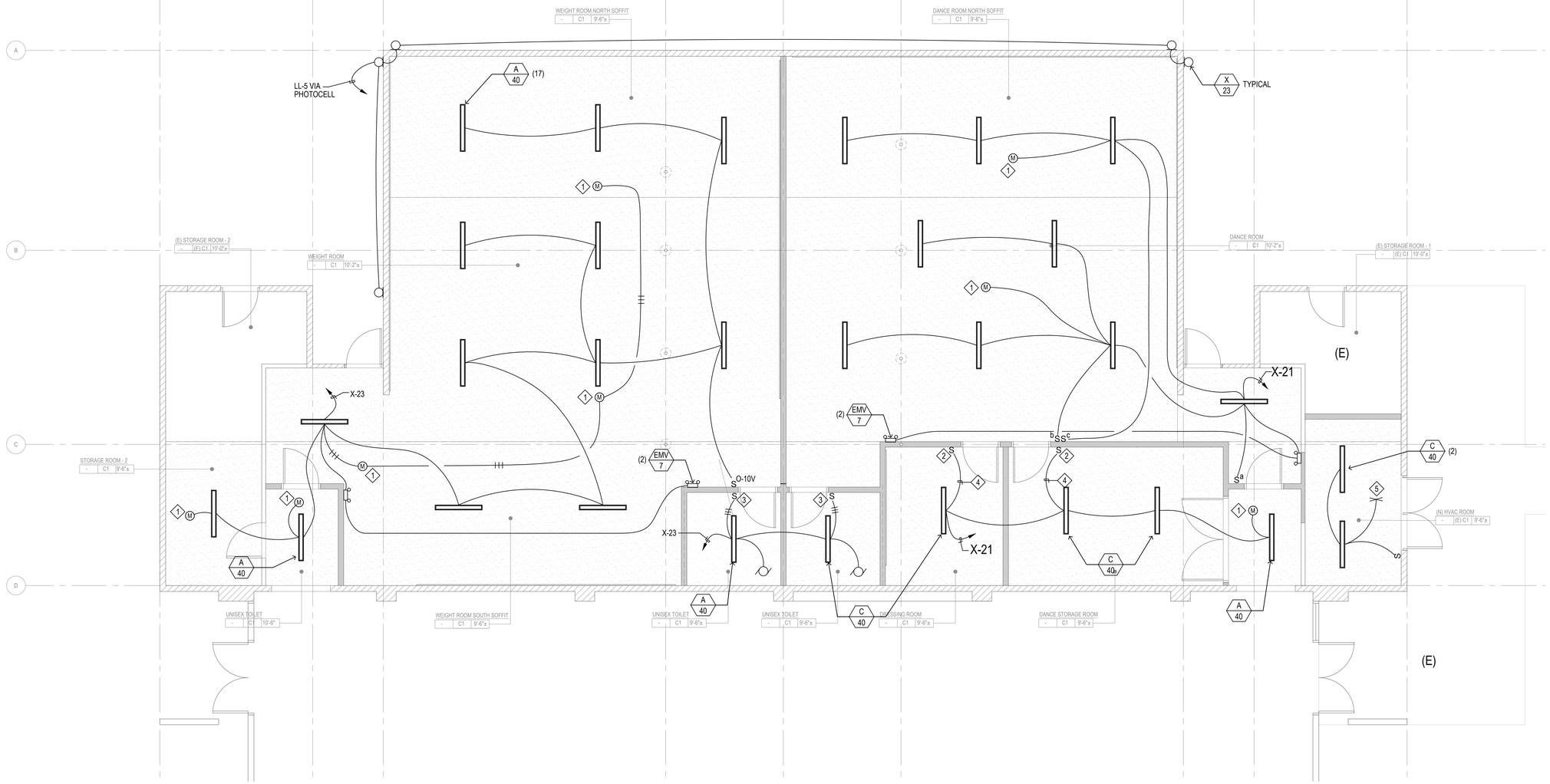
Job No.
3139

Date
2.11.2026

E2.1

LIGHTING NOTES

1. SENSOR SWITCH #CMR9-PDT.
2. SENSOR SWITCH #WSX-PDT-WH WITH S/S PLATE.
3. SENSOR SWITCH #WSX-PDT-2P-FAN-WH WITH S/S PLATE
4. MC LUMINARY CABLE: 2#12, 2#14, 1#12GND.
5. CONNECT TO EXISTING CIRCUIT



NORTH

ENLARGED LIGHTING PLAN

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

0 1 2 4 8

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

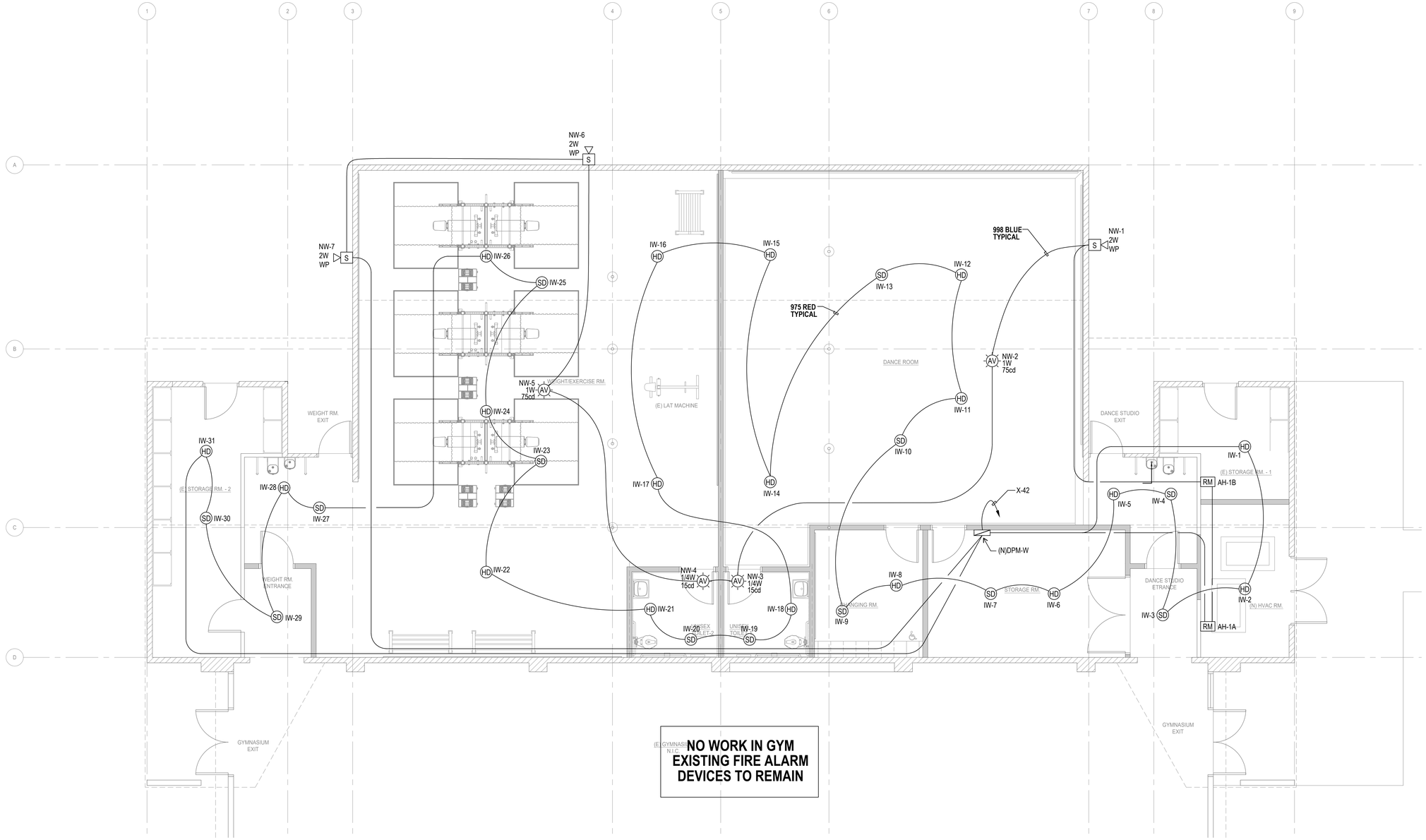
2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

ENLARGED LIGHTING PLAN

Job No.
3139

Date
2.11.2026

E2.2



NORTH

ENLARGED FIRE ALARM PLAN

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

0 1 2 4 8

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SOUTHERN KERN UNIFIED
SCHOOL DISTRICT

ROSAMOND HIGH EARLY
COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

ENLARGED
FIRE ALARM PLAN

Job No.
3139

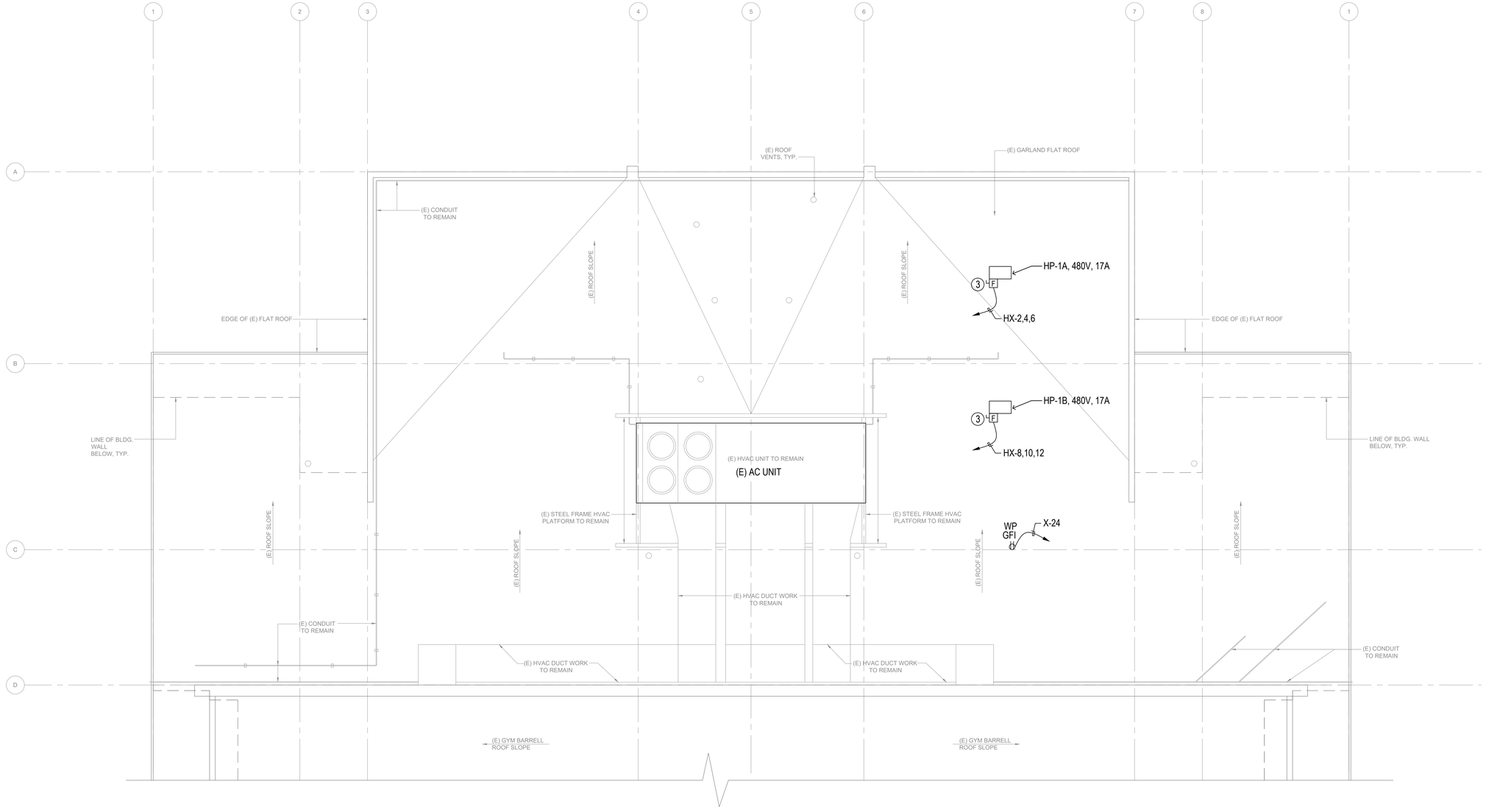
Date
2.11.2026

E2.3

ELECTRICAL NOTES

1. SEAL ALL ROOF PENETRATIONS WATER TIGHT.
2. COORDINATE EXACT EQUIPMENT LOCATIONS AND REQUIREMENTS WITH INSTALLER.

(3) 30AS, 20AF, 3P, WP, 600V



NORTH

ELECTRICAL ROOF PLAN

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

0 1 2 4 8

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

ELECTRICAL ROOF PLAN

Job No.
3139

Date
2.11.2026

E3.0

SECTION 26 00 00 - ELECTRICAL

PART 1 _ GENERAL

1.1 IDENTIFICATION OF EQUIPMENT

A. DISTRIBUTION PANELBOARDS: IDENTIFICATION SHALL BE WITH 1" X 4" LAMINATED, WHITE ON BLACK, MICARTA NAMEPLATES ON EACH MAJOR COMPONENT, EACH WITH NAME AND/OR NUMBER OF UNIT AND OTHER PERTINENT DATA AS REQUIRED. EMERGENCY POWER DISTRIBUTION PANELS SHALL BE IDENTIFIED WITH WHITE ON RED MICARTA NAMEPLATES. LETTERS SHALL BE NO LESS THAN 3/8" HIGH.

B. CIRCUIT BREAKERS SHALL BE IDENTIFIED BY NUMBER AND NAME WITH 3/4" X 1-1/2" LAMINATED MICARTA NAMEPLATES WITH 3/16" HIGH LETTERS MOUNTED ADJACENT TO CIRCUIT BREAKER OR SWITCH.

C. MISCELLANEOUS EQUIPMENT (ELECTRICAL), SUCH AS INDIVIDUALLY MOUNTED SAFETY SWITCHES, STARTERS, STEP-DOWN TRANSFORMERS, PULL BOXES, JUNCTION BOXES, ETC., SHALL BE IDENTIFIED AS REQUIRED BY THE USE OF SUCH EQUIPMENT WITH P-TOUCH LABELS AS REQUIRED.

1.2 ARC FLASH LABELING

A. ALL PANELS, CIRCUIT BREAKER ENCLOSURES, SWITCHBOARDS AND MOTOR CONTROL CENTERS SHALL BE LABELED WITH ARC FLASH WARNING STICKERS.

B THESE LABELS SHALL CONTAIN THE FOLLOWING:

1. ARC FLASH BOUNDARY
2. MINIMUM ARC RATING
3. PERSONAL PROTECTIVE EQUIPMENT LEVEL, PPE
4. SHOCK HAZARD LEVEL
5. FAULT CURRENT

1.3 MOUNTING

A. PROVIDE MATERIALS AND ACCESSORIES NECESSARY TO PROPERLY MOUNT AND SECURE EQUIPMENT FURNISHED AND/OR INSTALLED UNDER THE ELECTRICAL WORK. THIS INCLUDES BUT IS NOT LIMITED TO SUCH ITEMS AS CONDUIT, OUTLETS, JUNCTION BOXES, SWITCHES, RELAYS, DISCONNECT SWITCHES, LIGHTING FIXTURES, CABINETS, AND TRANSFORMERS.

PART 2 _ PRODUCTS AND EXECUTION

2.1 CONDUIT

A. RIGID STEEL CONDUIT:

1. RIGID STEEL CONDUIT SHALL HAVE ZINC COATED EXTERIOR, ZINC OR ENAMEL INTERIOR, STANDARD WEIGHT, ZINC COATED COUPLINGS, LOCKNUTS AND BUSHINGS AND SHALL BEAR THE U.L. LABEL. RIGID CONDUIT SHALL NOT BE INSTALLED UNDERGROUND.
2. USE RIGID CONDUIT ONLY FOR EXPOSED EXTERIOR CONDUIT RUNS, WHEREVER SUBJECT TO PHYSICAL DAMAGE, OR WHERE SPECIFICALLY CALLED FOR ON THE DRAWINGS OR REQUIRED BY A SERVING UTILITY.
3. INTERMEDIATE METALLIC CONDUIT (I.M.C.) MAY BE USED IN LIEU OF RIGID STEEL CONDUIT.
4. USE LIQUID_TIGHT FLEXIBLE CONDUIT IN LIEU OF FLEXIBLE CONDUIT FOR WET, DAMP, OR OUTDOOR AREAS OR WHERE WEATHERPROOF FLEXIBLE CONDUIT IS CALLED FOR ON THE DRAWINGS OR BY CODE.

B. PLASTIC CONDUIT:

1. PLASTIC CONDUIT SHALL BE RIGID POLYVINYL CHLORIDE (PVC) UNDERWRITER'S APPROVAL, SCHEDULE 40. CONNECTIONS AND FITTINGS SHALL BE "OUTSIDE" TYPE ASSEMBLED IN ACCORDANCE WITH THE RECOMMENDED METHODS OF THE MANUFACTURER.
2. UNDERGROUND PVC CONDUIT SHALL BE BURIED A MINIMUM OF 24 INCHES BELOW GRADE. WHERE MORE THAN TWO CONDUITS ARE INSTALLED ADJACENTLY UNDERGROUND, USE FACTORY MADE CONDUIT SPACERS.
3. PVC CONDUIT SHALL BE USED FOR UNDERGROUND CONDUIT RUNS IN LIEU OF WRAPPED RIGID CONDUIT EXCEPT AS NOTED OTHERWISE ON THE DRAWINGS OR REQUIRED BY THE SERVING UTILITY.
4. PROVIDE A CODE SIZE GROUND CONDUCTOR IN EACH CONDUIT.
5. ONLY BRAIDED POLYETHYLENE OR SIMILAR PULL ROPE SHALL BE USED.

C. INSTALLATION OF CONDUIT:

1. UNDERGROUND CONDUIT.

a. KEEP INTERIOR OF CONDUIT CLEAN AND CLEAR. CLEAN UNDERGROUND CONDUITS BY PULLING A MANDREL THROUGH CONDUIT RUN FOLLOWED WITH A SWAB BEFORE PULLING WIRE.

b. REROUTE CONDUIT FROM LOCATIONS SHOWN ON THE DRAWINGS WHERE IT IS NECESSARY TO CLEAR OBSTRUCTIONS.

c. PROVIDE JUNCTION OR PULL BOXES WHERE REQUIRED FOR PULLING CONDUCTORS DUE TO EXCESSIVE NUMBER OF BENDS OR LENGTH OF CONDUIT RUNS.

d. BURY UNDERGROUND CONDUIT, EXCEPT THOSE UNDER BUILDINGS, A MINIMUM OF 24 INCHES BELOW FINISHED GRADE. CONDUITS UNDER ROADWAYS SHALL BE A MINIMUM OF 36 INCHES BELOW FINISHED GRADE. CONDUIT RUNS 3/4 INCH AND SMALLER IN SLABS SHALL BE LOCATED ABOVE VAPOR BARRIERS. BURY CONDUIT RUNS LARGER THAN 3/4 INCH TO A MINIMUM DEPTH OF 12 INCHES BELOW FLOOR SLABS.

e. STANDARD FACTORY ELLS SHALL NOT BE USED IN UNDERGROUND SERVICE CONDUITS OR OTHER LONG UNDERGROUND RUNS. FIELD BENDS SHALL NOT BE FLATTENED OR KINKED AND SHALL NOT MATERIALLY REDUCE THE INTERNAL DIAMETER OF THE CONDUIT. BENDS IN LONG UNDERGROUND RUNS SHALL BE MADE IN LONG SWEEPING BENDS. DO NOT BEND AT COUPLINGS. APPROVED CONDUIT BENDING METHODS SHALL BE USED.

f. ALL CONDUIT RUNS SHALL HAVE A CODE SIZE INSULATED GROUNDING CONDUCTOR.

g. PROPERLY SEPARATE TWO OR MORE CONDUITS INSTALLED UNDERGROUND IN A COMMON CONCRETE ENVELOPE WITH APPROVED FACTORY MADE CONDUIT SPACERS.

h. LOCATE CONDUIT STUB_OUTS DIMENSIONALLY FROM BUILDING OR CURB LINES ON RECORD DRAWINGS.

i. PULL WIRES SHALL BE INSTALLED IN EMPTY CONDUITS INCLUDING TELEPHONE CONDUITS AND STUB_OUTS, NO. 12 AWG, TYPE "THWN" INSULATED COPPER WIRE OR 1/8-INCH POLYETHYLENE ROPE SHALL BE USED.

2. EXPOSED/CONCEALED CONDUIT:

a. PROVIDE SECURE MOUNTING FACILITIES FOR CONDUITS. WIRE OR PLUMBERS TAPE SHALL NOT BE USED FOR HANGING CONDUIT. STRAP SHALL BE FACTORY MADE OF THE ONE HOLE MALLEABLE IRON OR TWO HOLE GALVANIZED CLAMP TYPE.

b. PROVIDE EXPANSION COUPLINGS WHEREVER CONDUITS CROSS EXPANSION JOINTS.

c. RUN CONDUIT AT RIGHT ANGLES OR PARALLEL TO STRUCTURAL MEMBERS, WALLS, FLOORS AND CEILINGS. WHERE SEVERAL CONDUITS ARE RUN TOGETHER OR SUSPENDED, THEY SHALL BE HUNG ON UNISTRUT TRAPEZES WITH MINIMUM 3/8-INCH ROD HANGERS.

d. CUT ENDS OF CONDUIT SQUARE AND REAM TO REMOVE BURRS OR SHARP EDGES. TERMINATE CONDUITS PROPERLY WITH BUSHINGS, LOCKNUTS, ETC. TERMINATE ONE (1) INCH AND LARGER CONDUITS WITH INSULATED BUSHINGS.

e. RENDER CONDUITS PROJECTING THROUGH THE ROOFING WATERTIGHT BY PROPER FLASHINGS. SECURELY FASTEN A SHEET METAL CAP AND TIGHTEN BANK OR STORM COLLAR TO THE CONDUITS. EXTEND FLASHING A MINIMUM OF SIX (6) INCHES IN ALL DIRECTIONS. COORDINATE AND INSTALL ROOF FLASHING FOR CONDUITS TO THE SATISFACTION OF THE PROJECT MANAGER.

f. ALL CONDUIT RUNS SHALL HAVE A CODE SIZE INSULATED GROUNDING CONDUCTOR.

g. PULL WIRES SHALL BE INSTALLED IN EMPTY CONDUITS INCLUDING TELEPHONE CONDUITS AND STUB_OUTS, NO. 12 AWG, TYPE "THWN" INSULATED COPPER WIRE OR 1/8-INCH POLYETHYLENE ROPE SHALL BE USED.

h. FLEXIBLE CONDUIT CONNECTIONS SHALL COMPLY WITH NEC SECTION 350-22.

2.2 WIRE AND CABLE

A. 600 VOLT CONDUCTORS:

1. CONDUCTORS SHALL BE COPPER AND DELIVERED TO THE SITE IN THEIR ORIGINAL, UNBROKEN PACKAGES PLAINLY MARKED OR TAGGED WITH U.L. LABEL, SIZE, KIND, INSULATION, NAME OF MANUFACTURER AND TRADE NAME OF THE WIRE.
2. TYPE "THWN", 600 VOLT INSULATION FOR DAMP OR WET LOCATIONS OR ON BOILERS AND FURNACES AND THEIR CONTROLS.
3. TYPE "THHN" 600 VOLT INSULATION SHALL BE USED IN OTHER LOCATIONS UNLESS NOTED.
4. MINIMUM SIZE CONDUCTOR SHALL BE #12.
5. CONDUCTORS SHALL BE STRANDED.
6. GROUND CONDUCTORS SHALL BE BARE COPPER OR HAVE GREEN INSULATION.

B. INSTALLATION:

1. CONDUCTORS SHALL BE CONTINUOUS BETWEEN OUTLETS OR JUNCTION BOXES AND NO SPLICES SHALL BE MADE EXCEPT IN OUTLET BOXES, PULL BOXES, PANELBOARD GUTTERS OR HANDHOLES.
2. JOINTS, SPLICES AND TAPS NO. L0 OR SMALLER (INCLUDING FIXTURE PIGTAILS) SHALL BE CONNECTED WITH "FLOATING SPRING" TYPE CONNECTORS. NO. 8 AND LARGER SHALL BE CONNECTED WITH SOLDERLESS CONNECTORS OF 100% ELECTROLYTIC COPPER. SPLIT_BOLT CONNECTORS ARE NOT ACCEPTABLE.
3. TIGHTEN PRESSURE TYPE LUGS ON PANELS AND EQUIPMENT, AND THEN RETIGHTEN 24 HOURS OR MORE LATER AFTER ENERGIZING. PROVIDE WRITTEN REPORT OF TORQUE VALUES ON LUGS.
4. OIL OR GREASE SHALL NOT BE USED WHEN PULLING CONDUCTORS. USE U.L. APPROVED CABLE LUBRICATION ONLY.
5. LACE OR TRAIN CONDUCTORS NEATLY IN PANELS, CABINETS AND EQUIPMENT. USE PLASTIC WIRE TIES TO ROUTE CONDUCTORS AT EDGE OF ENCLOSURE AWAY FROM OVERCURRENT DEVICES.
6. BRANCH CIRCUITS SHALL BE COLOR CODED IN COMPLIANCE WITH SECTION 210_5 OF THE CALIFORNIA ELECTRICAL CODE. COLORED TAPE IS NOT ACCEPTABLE.
7. ALL WIRING, BOTH LINE AND LOW VOLTAGE, SHALL BE INSTALLED IN CONDUIT UNLESS OTHERWISE NOTED.

END OF SECTION 26 00 00

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2925 WEST ROSAMOND BLVD.
ROSAMOND, CA 93560

ELECTRICAL
SPECIFICATIONS

Job No.
3139

Date
2.11.2026

E4.0

SECTION 28 31 11 - FIRE DETECTION AND ALARM SYSTEM

PART 1 - GENERAL

1.1 BASIC SYSTEM FUNCTIONAL OPERATION

A. WHEN A FIRE ALARM CONDITION IS DETECTED AND REPORTED BY ONE OF THE SYSTEM INITIATING DEVICES, THE FOLLOWING FUNCTIONS SHALL IMMEDIATELY OCCUR:

1. THE SYSTEM ALARM LED ON THE SYSTEM DISPLAY SHALL FLASH.
2. A LOCAL PIEZO ELECTRIC SIGNAL IN THE CONTROL PANEL SHALL SOUND.
3. A BACKLIT LCD DISPLAY SHALL INDICATE ALL INFORMATION ASSOCIATED WITH THE FIRE ALARM CONDITION, INCLUDING THE TYPE OF ALARM POINT AND ITS LOCATION WITHIN THE PROTECTED PREMISES.
4. PRINTING AND HISTORY STORAGE EQUIPMENT SHALL LOG THE INFORMATION ASSOCIATED EACH NEW FIRE ALARM CONTROL PANEL CONDITION, ALONG WITH TIME AND DATE OF OCCURRENCE.
5. ALL SYSTEM OUTPUT PROGRAMS ASSIGNED VIA CONTROL-BY-EVENT INTERLOCK PROGRAMMING TO BE ACTIVATED BY THE PARTICULAR POINT IN ALARM SHALL BE EXECUTED, AND THE ASSOCIATED SYSTEM OUTPUTS (NOTIFICATION APPLIANCES AND/OR RELAYS) SHALL BE ACTIVATED.

PART 2 - PRODUCTS

2.1 EQUIPMENT AND MATERIAL, GENERAL

A. ALL EQUIPMENT AND COMPONENTS SHALL BE NEW, NOTIFIER CURRENT MODELS, THE MATERIALS, APPLIANCES, EQUIPMENT AND DEVICES SHALL BE TESTED AND LISTED BY A NATIONALLY RECOGNIZED APPROVALS AGENCY FOR USE AS PART OF A PROTECTIVE SIGNALING SYSTEM, MEETING THE NATIONAL FIRE ALARM CODE.

B. ALL EQUIPMENT AND COMPONENTS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH NOTIFIERS' RECOMMENDATIONS. CONSULT THE MANUFACTURER'S INSTALLATION MANUALS FOR ALL WIRING DIAGRAMS, SCHEMATICS, PHYSICAL EQUIPMENT SIZES, ETC., BEFORE BEGINNING SYSTEM INSTALLATION.

C. ALL EQUIPMENT SHALL BE ATTACHED TO WALLS AND CEILING/FLOOR ASSEMBLIES AND SHALL BE HELD FIRMLY IN PLACE (E.G., DETECTORS SHALL NOT BE SUPPORTED SOLELY BY SUSPENDED CEILINGS). FASTENERS AND SUPPORTS SHALL BE ADEQUATE TO SUPPORT THE REQUIRED LOAD.

D. 2.2 MAIN FIRE ALARM CONTROL PANEL

E. MAIN FACP IS AN EXISTING NOTIFIER #NSF2-640 PANEL. IT CONTAINS A MICROPROCESSOR BASED CENTRAL PROCESSING UNIT (CPU) AND POWER SUPPLY IN AN ECONOMICAL SPACE SAVING SINGLE BOARD DESIGN. THE CPU SHALL COMMUNICATE WITH AND CONTROL THE FOLLOWING TYPES OF EQUIPMENT USED TO MAKE UP THE SYSTEM: INTELLIGENT ADDRESSABLE SMOKE AND THERMAL (HEAT) DETECTORS, ADDRESSABLE MODULES, PRINTER, ANNUNCIATORS, AND OTHER SYSTEM CONTROLLED DEVICES.

F. OPERATOR CONTROL:

1. ACKNOWLEDGE SWITCH:

   a. ACTIVATION OF THE CONTROL PANEL ACKNOWLEDGE SWITCH IN RESPONSE TO NEW ALARMS AND/OR TROUBLES SHALL SILENCE THE LOCAL PANEL PIEZO ELECTRIC SIGNAL AND CHANGE THE ALARM AND TROUBLE LEDS FROM FLASHING MODE TO STEADY-ON MODE. IF MULTIPLE ALARM OR TROUBLE CONDITIONS EXIST, DEPRESSION OF THIS SWITCH SHALL ADVANCE THE LCD DISPLAY TO THE NEXT ALARM OR TROUBLE CONDITION.

   b. DEPRESSION OF THE ACKNOWLEDGE SWITCH SHALL ALSO SILENCE ALL REMOTE ANNUNCIATOR PIEZO SOUNDERS.

2. ALARM SILENCE SWITCH: ACTIVATION OF THE ALARM SILENCE SWITCH SHALL CAUSE ALL PROGRAMMED ALARM NOTIFICATION APPLIANCES AND RELAYS TO RETURN TO THE NORMAL CONDITION AFTER AN ALARM CONDITION. THE SELECTION OF NOTIFICATION CIRCUITS AND RELAYS THAT ARE SILENCEABLE BY THIS SWITCH SHALL BE FULLY FIELD PROGRAMMABLE WITHIN THE CONFINES OF ALL APPLICABLE STANDARDS. THE FACP SOFTWARE SHALL INCLUDE SILENCE INHIBIT AND AUTO-SILENCE TIMERS.

3. ALARM ACTIVATE (DRILL) SWITCH: THE ALARM ACTIVATE SWITCH SHALL ACTIVATE ALL NOTIFICATION APPLIANCE CIRCUITS. THE DRILL FUNCTION SHALL LATCH UNTIL THE PANEL IS SILENCED OR RESET.

4. SYSTEM RESET SWITCH: ACTIVATION OF THE SYSTEM RESET SWITCH SHALL CAUSE ALL ELECTRONICALLY-LATCHED INITIATING DEVICES, APPLIANCES OR SOFTWARE ZONES, AS WELL AS ALL ASSOCIATED OUTPUT DEVICES AND CIRCUITS, TO RETURN TO THEIR NORMAL CONDITION.

5. LAMP TEST: THE LAMP TEST SWITCH SHALL ACTIVATE ALL LOCAL SYSTEM LEDS, LIGHT EACH SEGMENT OF THE LIQUID CRYSTAL DISPLAY AND DISPLAY THE PANEL SOFTWARE REVISION FOR SERVICE PERSONAL.

C. SYSTEM CAPACITY AND GENERAL OPERATION

1. THE CONTROL PANEL OR EACH NETWORK NODE SHALL PROVIDE, OR BE CAPABLE OF EXPANSION TO 636 INTELLIGENT/ADDRESSABLE DEVICES.
2. THE CONTROL PANEL OR EACH NETWORK NODE SHALL INCLUDE FORM-C ALARM, TROUBLE, SUPERVISORY, AND SECURITY RELAYS RATED AT A MINIMUM OF 2.0 AMPS @ 30 VDC.
3. IT SHALL ALSO INCLUDE FOUR CLASS B (NFPA STYLE Y) OR CLASS A (NFPA STYLE Z) PROGRAMMABLE NOTIFICATION APPLIANCE CIRCUITS.
4. THE NOTIFICATION APPLIANCE CIRCUITS SHALL BE PROGRAMMABLE TO SYNCRONIZE WITH SYSTEM SENSOR, GENTEX AND WHEELOCK NOTIFICATION APPLIANCES.
5. THE SYSTEM SHALL INCLUDE A FULL FEATURED OPERATOR INTERFACE CONTROL AND ANNUNCIATION PANEL THAT SHALL INCLUDE A BACKLIT LIQUID CRYSTAL DISPLAY (LCD), INDIVIDUAL COLOR CODED SYSTEM STATUS LEDS, AND AN ALPHANUMERIC KEYPAD WITH EASY TOUCH RUBBER KEYS FOR THE FIELD PROGRAMMING AND CONTROL OF THE FIRE ALARM SYSTEM.
6. THE SYSTEM SHALL BE PROGRAMMABLE, CONFIGURABLE, AND EXPANDABLE IN THE FIELD WITHOUT THE NEED FOR SPECIAL TOOLS, PROM PROGRAMMERS OR PC BASED PROGRAMMERS. IT SHALL NOT REQUIRE REPLACEMENT OF MEMORY ICS TO FACILITATE PROGRAMMING CHANGES.
7. THE SYSTEM SHALL ALLOW THE PROGRAMMING OF ANY INPUT TO ACTIVATE ANY OUTPUT OR GROUP OF OUTPUTS. SYSTEMS THAT HAVE LIMITED PROGRAMMING (SUCH AS GENERAL ALARM), HAVE COMPLICATED PROGRAMMING (SUCH AS A DIODE MATRIX), OR REQUIRE A LAPTOP PERSONAL COMPUTER ARE NOT CONSIDERED SUITABLE SUBSTITUTES.

   THE FACP SHALL SUPPORT UP TO 20 LOGIC EQUATIONS, INCLUDING "AND," "OR," AND "NOT," OR TIME DELAY EQUATIONS TO BE USED FOR ADVANCED PROGRAMMING. LOGIC EQUATIONS SHALL REQUIRE THE USE OF A PC WITH A SOFTWARE UTILITY DESIGNED FOR PROGRAMMING.
8. THE FACP OR EACH NETWORK NODE SHALL PROVIDE THE FOLLOWING FEATURES:

   a. DRIFT COMPENSATION TO EXTEND DETECTOR ACCURACY OVER LIFE. DRIFT COMPENSATION SHALL ALSO INCLUDE A SMOOTHING FEATURE, ALLOWING TRANSIENT NOISE SIGNALS TO BE FILTERED OUT.
   b. DETECTOR SENSITIVITY TEST, MEETING REQUIREMENTS OF NFPA 1-2018, CHAPTER 7.
   c. MAINTENANCE ALERT, WITH TWO LEVELS (MAINTENANCE ALERT/MAINTENANCE URGENT), TO WARN OF EXCESSIVE SMOKE DETECTOR DIRT OR DUST ACCUMULATION.
   d. NINE SENSITIVITY LEVELS FOR ALARM, SELECTED BY DETECTOR. THE ALARM LEVEL RANGE SHALL BE .5 TO 2.35 PERCENT PER FOOT FOR PHOTOELECTRIC DETECTORS AND 0.5 TO 2.5 PERCENT PER FOOT FOR IONIZATION DETECTORS. THE SYSTEM SHALL ALSO SUPPORT SENSITIVE ADVANCED DETECTION LASER DETECTORS WITH AN ALARM LEVEL RANGE OF .03 PERCENT PER FOOT TO 1.0 PERCENT PER FOOT. THE SYSTEM SHALL ALSO INCLUDE UP TO NINE LEVELS OF PREALARM, SELECTED BY DETECTOR, TO INDICATE IMPENDING ALARMS TO MAINTENANCE PERSONNEL.
   e. THE ABILITY TO DISPLAY OR PRINT SYSTEM REPORTS.
   f. ALARM VERIFICATION, WITH COUNTERS AND A TROUBLE INDICATION TO ALERT MAINTENANCE PERSONNEL WHEN A DETECTOR ENTERS VERIFICATION 20 TIMES.
   g. PAS PRESIGNAL, MEETING NFPA 1-2018 REQUIREMENTS.
   h. RAPID MANUAL STATION REPORTING (UNDER 3 SECONDS) AND SHALL MEET NFPA 72 CHAPTER 1 REQUIREMENTS FOR ACTIVATION OF NOTIFICATION CIRCUITS WITHIN 10 SECONDS OF INITIATING DEVICE ACTIVATION.
   i. PERIODIC DETECTOR TEST, CONDUCTED AUTOMATICALLY BY THE SOFTWARE.
   j. SELF OPTIMIZING PRE-ALARM FOR ADVANCED FIRE WARNING, WHICH ALLOWS EACH DETECTOR TO LEARN ITS PARTICULAR ENVIRONMENT AND SET ITS PREALARM LEVEL TO JUST ABOVE NORMAL PEAKS.
   k. CROSS ZONING WITH THE CAPABILITY OF COUNTING: TWO DETECTORS IN ALARM, TWO SOFTWARE ZONES IN ALARM, OR ONE SMOKE DETECTOR AND ONE THERMAL DETECTOR.
   l. WALK TEST, WITH A CHECK FOR TWO DETECTORS SET TO SAME ADDRESS.
   m. CONTROL-BY-TIME FOR NON-FIRE OPERATIONS, WITH HOLIDAY SCHEDULES.
   n. DAY/NIGHT AUTOMATIC ADJUSTMENT OF DETECTOR SENSITIVITY.
   o. DEVICE BLINK CONTROL FOR SLEEPING AREAS.

F. SIGNALING LINE CIRCUITS (SLC):

1. EACH FACP OR FACP NETWORK NODE SHALL SUPPORT UP TO TWO SLCS. EACH SLC INTERFACE SHALL PROVIDE POWER TO AND COMMUNICATE WITH UP TO 159 INTELLIGENT DETECTORS (IONIZATION, PHOTOELECTRIC OR THERMAL) AND 159 INTELLIGENT MODULES (MONITOR OR CONTROL) FOR A LOOP CAPACITY OF 318 DEVICES. THE ADDITION OF THE OPTIONAL SECOND LOOP SHALL DOUBLE THE DEVICE CAPACITY, SUPPORTING A TOTAL OF 636 DEVICES. EACH SLC SHALL BE CAPABLE OF NFPA 1-2018 STYLE 4, STYLE 6, OR STYLE 7 (CLASS A OR B) WIRING.

2. CPU SHALL RECEIVE ANALOG INFORMATION FROM ALL INTELLIGENT DETECTORS TO BE PROCESSED TO DETERMINE WHETHER NORMAL, ALARM, PREALARM, OR TROUBLE CONDITIONS EXIST FOR EACH DETECTOR. THE SOFTWARE SHALL AUTOMATICALLY MAINTAIN THE DETECTOR'S DESIRED SENSITIVITY LEVEL BY ADJUSTING FOR THE EFFECTS OF ENVIRONMENTAL FACTORS, INCLUDING THE ACCUMULATION OF DUST IN EACH DETECTOR. THE ANALOG INFORMATION SHALL ALSO BE USED FOR AUTOMATIC DETECTOR TESTING AND FOR THE AUTOMATIC DETERMINATION OF DETECTOR MAINTENANCE REQUIREMENTS.

I. POWER SUPPLY:

1. A HIGH TECH OFF-LINE SWITCHING POWER SUPPLY SHALL BE AVAILABLE FOR THE FIRE ALARM CONTROL PANEL OR NETWORK NODE AND PROVIDE 6.0 AMPS OF AVAILABLE POWER FOR THE CONTROL PANEL AND PERIPHERAL DEVICES.
2. PROVISIONS WILL BE MADE TO ALLOW THE AUDIO-VISUAL POWER TO BE INCREASED AS REQUIRED BY ADDING MODULAR EXPANSION AUDIO-VISUAL POWER SUPPLIES.
3. POSITIVE-TEMPERATURE-COEFFICIENT (PTC) THERMISTORS, CIRCUIT BREAKERS, OR OTHER OVER-CURRENT PROTECTION SHALL BE PROVIDED ON ALL POWER OUTPUTS. THE POWER SUPPLY SHALL PROVIDE AN INTEGRAL BATTERY CHARGER FOR USE WITH BATTERIES UP TO 55 AH OR MAY BE USED WITH AN EXTERNAL BATTERY AND CHARGER SYSTEM. BATTERY ARRANGEMENT MAY BE CONFIGURED IN THE FIELD.
4. THE POWER SUPPLY SHALL CONTINUOUSLY MONITOR ALL FIELD WIRES FOR EARTH GROUND CONDITIONS, AND SHALL HAVE THE FOLLOWING LED INDICATORS:

   GROUND FAULT LED
   AC POWER FAIL LED
   NAC ON LED (4)

5. THE MAIN POWER SUPPLY SHALL OPERATE ON 120 VAC, 60 HZ, AND SHALL PROVIDE ALL NECESSARY POWER FOR THE FACP.
6. THE MAIN POWER SUPPLY SHALL PROVIDE A BATTERY CHARGER USING DUAL-RATE CHARGING TECHNIQUES FOR FAST BATTERY RECHARGE AND BE CAPABLE OF CHARGING BATTERIES UP TO 200 AH.
7. ALL CIRCUITS SHALL BE POWER-LIMITED, PER UL864 REQUIREMENTS.

2.3 SYSTEM COMPONENTS

A. STROBE LIGHTS SHALL MEET THE REQUIREMENTS OF THE ADA, UL STANDARD 1971, BE FULLY SYNCHRONIZED, AND SHALL MEET THE FOLLOWING CRITERIA:

1. THE MAXIMUM PULSE DURATION SHALL BE 2/10 OF ONE SECOND
2. STROBE INTENSITY SHALL MEET THE REQUIREMENTS OF UL 1971.
3. THE FLASH RATE SHALL MEET THE REQUIREMENTS OF UL 1971.

2.4 SYSTEM COMPONENTS - ADDRESSABLE DEVICES

A. ADDRESSABLE DEVICES - GENERAL:

1. ADDRESSABLE DEVICES SHALL USE SIMPLE TO INSTALL AND MAINTAIN DECADE, DECIMAL ADDRESS SWITCHES. DEVICES SHALL BE CAPABLE OF BEING SET TO AN ADDRESS IN A RANGE OF 001 TO 159.
2. ADDRESSABLE DEVICES, WHICH USE A BINARY-CODED ADDRESS SETTING METHOD, SUCH AS A DIP-SWITCH, ARE NOT AN ALLOWABLE SUBSTITUTE.
3. DETECTORS SHALL BE INTELLIGENT (ANALOG) AND ADDRESSABLE, AND SHALL CONNECT WITH TWO WIRES TO THE FIRE ALARM CONTROL PANEL SIGNALING LINE CIRCUITS.
4. ADDRESSABLE SMOKE AND THERMAL DETECTORS SHALL PROVIDE DUAL ALARM AND POWER/POLLING LEDS. BOTH LEDS SHALL FLASH GREEN UNDER NORMAL CONDITIONS, INDICATING THAT THE DETECTOR IS OPERATIONAL AND IN REGULAR COMMUNICATION WITH THE CONTROL PANEL, AND BOTH LEDS SHALL BE PLACED INTO STEADY RED ILLUMINATION BY THE CONTROL PANEL, INDICATING THAT AN ALARM CONDITION HAS BEEN DETECTED. IF REQUIRED, THE LED FLASH SHALL HAVE THE ABILITY TO BE REMOVED FROM THE SYSTEM PROGRAM. AN OUTPUT CONNECTION SHALL ALSO BE PROVIDED IN THE BASE TO CONNECT AN EXTERNAL REMOTE ALARM LED.
5. THE FIRE ALARM CONTROL PANEL SHALL PERMIT DETECTOR SENSITIVITY ADJUSTMENT THROUGH FIELD PROGRAMMING OF THE SYSTEM. THE PANEL ON A TIME-OF-DAY BASIS SHALL AUTOMATICALLY ADJUST SENSITIVITY.
6. USING SOFTWARE IN THE FACP, DETECTORS SHALL AUTOMATICALLY COMPENSATE FOR DUST ACCUMULATION AND OTHER SLOW ENVIRONMENTAL CHANGES THAT MAY AFFECT THEIR PERFORMANCE. THE DETECTORS SHALL BE LISTED BY UL AS MEETING THE CALIBRATED SENSITIVITY TEST REQUIREMENTS OF NFPA 1-2018, CHAPTER 7.
7. THE DETECTORS SHALL BE CEILING-MOUNT AND SHALL INCLUDE A SEPARATE TWIST-LOCK BASE WITH TAMPER PROOF FEATURE. BASES SHALL INCLUDE A SOUNDER BASE WITH A BUILT-IN (LOCAL) SOUNDER RATED AT 85 DBA MINIMUM, A RELAY BASE AND AN ISOLATOR BASE DESIGNED FOR STYLE 7 APPLICATIONS.
8. THE DETECTORS SHALL PROVIDE A TEST MEANS WHEREBY THEY WILL SIMULATE AN ALARM CONDITION AND REPORT THAT CONDITION TO THE CONTROL PANEL. SUCH A TEST MAY BE INITIATED AT THE DETECTOR ITSELF (BY ACTIVATING A MAGNETIC SWITCH) OR INITIATED REMOTELY ON COMMAND FROM THE CONTROL PANEL.
9. DETECTORS SHALL ALSO STORE AN INTERNAL IDENTIFYING TYPE CODE THAT THE CONTROL PANEL SHALL USE TO IDENTIFY THE TYPE OF DEVICE (ION, PHOTO, THERMAL).
10. DETECTORS WILL OPERATE IN AN ANALOG FASHION, WHERE THE DETECTOR SIMPLY MEASURES ITS DESIGNED ENVIRONMENT VARIABLE AND TRANSMITS AN ANALOG VALUE TO THE FACP BASED ON REAL-TIME MEASURED VALUES. THE FACP SOFTWARE, NOT THE DETECTOR, SHALL MAKE THE ALARM/NORMAL DECISION, THEREBY ALLOWING THE SENSITIVITY OF EACH DETECTOR TO BE SET IN THE FACP PROGRAM AND ALLOWING THE SYSTEM OPERATOR TO VIEW THE CURRENT ANALOG VALUE OF EACH DETECTOR.
11. ADDRESSABLE DEVICES SHALL STORE AN INTERNAL IDENTIFYING CODE THAT THE CONTROL PANEL SHALL USE TO IDENTIFY THE TYPE OF DEVICE.
12. A MAGNETIC TEST SWITCH SHALL BE PROVIDED TO TEST DETECTORS AND MODULES. DETECTORS SHALL REPORT AN INDICATION OF AN ANALOG VALUE REACHING 100% OF THE ALARM THRESHOLD.
13. ADDRESSABLE MODULES SHALL MOUNT IN A 4-INCH SQUARE (101.6 MM SQUARE), 2-1/8 INCH (54 MM) DEEP ELECTRICAL BOX. AN OPTIONAL SURFACE MOUNT LEXAN ENCLOSURE SHALL BE AVAILABLE.

B. ADDRESSABLE MANUAL FIRE ALARM BOX (MANUAL STATION):

1. ADDRESSABLE MANUAL FIRE ALARM BOXES SHALL, ON COMMAND FROM THE CONTROL PANEL, SEND DATA TO THE PANEL REPRESENTING THE STATE OF THE MANUAL SWITCH AND THE ADDRESSABLE COMMUNICATION MODULE STATUS. THEY SHALL USE A KEY OPERATED TEST-RESET LOCK, AND SHALL BE DESIGNED SO THAT AFTER ACTUAL EMERGENCY OPERATION, THEY CANNOT BE RESTORED TO NORMAL USE EXCEPT BY THE USE OF A KEY.
2. ALL OPERATED STATIONS SHALL HAVE A POSITIVE, VISUAL INDICATION OF OPERATION AND UTILIZE A KEY TYPE RESET.
3. MANUAL FIRE ALARM BOXES SHALL BE CONSTRUCTED OF LEXAN WITH CLEARLY VISIBLE OPERATING INSTRUCTIONS PROVIDED ON THE COVER. THE WORD FIRE SHALL APPEAR ON THE FRONT OF THE STATIONS IN RAISED LETTERS, 1.75 INCHES (44 MM) OR LARGER.

C. INTELLIGENT PHOTOELECTRIC SMOKE DETECTOR: THE DETECTORS SHALL USE THE PHOTOELECTRIC (LIGHT-SCATTERING) PRINCIPAL TO MEASURE SMOKE DENSITY AND SHALL, ON COMMAND FROM THE CONTROL PANEL, SEND DATA TO THE PANEL REPRESENTING THE ANALOG LEVEL OF SMOKE DENSITY.

D. INTELLIGENT LASER PHOTO SMOKE DETECTOR:

1. THE INTELLIGENT LASER PHOTO SMOKE DETECTOR SHALL BE A SPOT TYPE DETECTOR THAT INCORPORATES AN EXTREMELY BRIGHT LASER DIODE AND AN INTEGRAL LENS THAT FOCUSES THE LIGHT BEAM TO A VERY SMALL VOLUME NEAR A RECEIVING PHOTO SENSOR. THE SCATTERING OF SMOKE PARTICLES SHALL ACTIVATE THE PHOTO SENSOR.
2. THE LASER DETECTOR SHALL HAVE CONDUCTIVE PLASTIC SO THAT DUST ACCUMULATION IS REDUCED SIGNIFICANTLY.
3. THE INTELLIGENT LASER PHOTO DETECTOR SHALL HAVE NINE SENSITIVITY LEVELS AND BE SENSITIVE TO A MINIMUM OBSCURATION OF 0.03 PERCENT PER FOOT.
4. THE LASER DETECTOR SHALL NOT REQUIRE EXPENSIVE CONDUIT, SPECIAL FITTINGS OR PVC PIPE.
5. THE INTELLIGENT LASER PHOTO DETECTOR SHALL SUPPORT STANDARD, RELAY, ISOLATOR AND SOUNDER DETECTOR BASES.
6. THE LASER PHOTO DETECTOR SHALL NOT REQUIRE OTHER CLEANING REQUIREMENTS THAN THOSE LISTED IN NFPA 72. REPLACEMENT, REFURBISHMENT OR SPECIALIZED CLEANING OF THE DETECTOR HEAD SHALL NOT BE REQUIRED.
7. THE LASER PHOTO DETECTOR SHALL INCLUDE TWO BICOLOR LEDS THAT FLASH GREEN IN NORMAL OPERATION AND TURN ON STEADY RED IN ALARM.

E. INTELLIGENT IONIZATION SMOKE DETECTOR: THE DETECTORS SHALL USE THE DUAL-CHAMBER IONIZATION PRINCIPAL TO MEASURE PRODUCTS OF COMBUSTION AND SHALL, ON COMMAND FROM THE CONTROL PANEL, SEND DATA TO THE PANEL REPRESENTING THE ANALOG LEVEL OF PRODUCTS OF COMBUSTION.

F. INTELLIGENT THERMAL DETECTORS: THERMAL DETECTORS SHALL BE INTELLIGENT ADDRESSABLE DEVICES RATED AT 135 DEGREES FAHRENHEIT (58 DEGREES CELSIUS) AND HAVE A RATE-OF-RISE ELEMENT RATED AT 15 DEGREES F (9.4 DEGREES C) PER MINUTE. IT SHALL CONNECT VIA TWO WIRES TO THE FIRE ALARM CONTROL PANEL SIGNALING LINE CIRCUIT.

2.5 BATTERIES

A. THE BATTERY SHALL HAVE SUFFICIENT CAPACITY TO POWER THE FIRE ALARM SYSTEM FOR NOT LESS THAN TWENTY-FOUR HOURS PLUS 5 MINUTES OF ALARM UPON A NORMAL AC POWER FAILURE.

B. THE BATTERIES ARE TO BE COMPLETELY MAINTENANCE FREE. NO LIQUIDS ARE REQUIRED. FLUID LEVEL CHECKS FOR REFILLING, SPILLS, AND LEAKAGE SHALL NOT BE REQUIRED.

C. IF NECESSARY TO MEET STANDBY REQUIREMENTS, EXTERNAL BATTERY AND CHARGER SYSTEMS MAY BE USED.

2.6 SPEAKERS

GENERAL:
WHEELOCK ADVANCE OUTDOOR SPEAKERS AND SPEAKER STROBES SHALL MOUNT TO A WEATHERPROOF BACK BOX. A UNIVERSAL MOUNTING PLATE SHALL BE USED FOR MOUNTING CEILING AND WALL PRODUCTS. THE NOTIFICATION APPLIANCE CIRCUIT AND AMPLIFIER WIRING SHALL TERMINATE AT THE UNIVERSAL MOUNTING PLATE. ALSO, SPECTRALERT ADVANCE SPEAKER STROBES, WHEN USED WITH THE SYNCCIRCUIT™ MODULE ACCESSORY, SHALL BE POWERED FROM A NON-CODED NOTIFICATION APPLIANCE CIRCUIT OUTPUT AND SHALL OPERATE ON A NOMINAL 12 OR 24 VOLTS. WHEN USED WITH THE SYNCCIRCUIT™ MODULE, 12-VOLT-RATED NOTIFICATION APPLIANCE CIRCUIT OUTPUTS SHALL OPERATE BETWEEN 8.5 AND 17.5 VOLTS; 24-VOLT-RATED NOTIFICATION APPLIANCE CIRCUIT OUTPUTS SHALL OPERATE BETWEEN 16.5 AND 33 VOLTS. OUTDOOR SPECTRALERT ADVANCE PRODUCTS SHALL OPERATE BETWEEN -40°F AND 151°F FROM A REGULATED DC, OR FULL-WAVE RECTIFIED, UNFILTERED POWER SUPPLY.

SPEAKER:
SPEAKER SHALL BE A WHEELOCK ET-1010 _____ DUAL-VOLTAGE TRANSFORMER SPEAKER CAPABLE OF OPERATING AT 25.0 OR 70.7 NOMINAL VRMS. SPEAKER SHALL BE LISTED TO UNDERWRITERS LABORATORIES STANDARD S4048 FOR OUTDOOR FIRE PROTECTIVE SIGNALING SYSTEMS. SPEAKER SHALL HAVE A FREQUENCY RANGE OF 400 TO 4,000 HZ AND SHALL HAVE AN OPERATING TEMPERATURE FROM -40°F AND 150.8°F. SPEAKER SHALL HAVE POWER TAPS AND WATTAGE SETTINGS THAT ARE SELECTED BY ROTARY SWITCHES. THE SPEAKER MUST BE INSTALLED WITH ITS WEATHERPROOF BACK BOX IN ORDER TO REMAIN OUTDOOR APPROVED PER UL LISTING S4048. THE SPEAKER SHALL BE SUITABLE FOR USE IN AIR HANDLING SPACES AND WET ENVIRONMENTS.

SPEAKER STROBE COMBINATION:
THE SPEAKER STROBE SHALL BE A HOCHIKI HSS _____ LISTED TO UL 1638 AND UL 1480 AND BE APPROVED FOR FIRE PROTECTIVE SIGNALING SYSTEMS. SPEAKER SHALL BE CAPABLE OF OPERATING AT 25.0 OR 70.0 NOMINAL VRMS AND SHALL HAVE A FREQUENCY RANGE OF 400 TO 4,000 HZ. SPEAKER SHALL HAVE POWER TAPS THAT ARE SELECTED BY ROTARY SWITCH. THE STROBE SHALL CONSIST OF A XENON FLASH TUBE WITH ASSOCIATED LENS/REFLECTOR SYSTEM AND OPERATE ON EITHER 12 OR 24 VOLTS. THE STROBE SHALL ALSO FEATURE SELECTABLE CANDELA OUTPUT, PROVIDING OPTIONS FOR 15 OR 15/75 CANDELA WHEN OPERATING ON 12 VOLTS AND 15, 15/75, 30, 75, 110, 115, 135, 150, 177 OR 185 CANDELA WHEN OPERATING ON 24 VOLTS. THE STROBE SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT REQUIREMENT FOR VISIBLE SIGNALING APPLIANCES, FLASHING AT 1 HZ OVER THE STROBE'S ENTIRE OPERATING VOLTAGE RANGE. THE SPEAKER STROBE MUST BE INSTALLED WITH ITS WEATHERPROOF BACK BOX IN ORDER TO REMAIN OUTDOOR APPROVED PER UL. THE SPEAKER STROBE SHALL BE SUITABLE FOR USE IN WET ENVIRONMENTS.

END OF SECTION 28 31 11

AGENCY

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Revisions

No.	Date	Description

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SOUTHERN KERN UNIFIED SCHOOL DISTRICT

ROSAMOND HIGH EARLY COLLEGE CAMPUS

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ROSAMOND, CA 93560

FIRE ALARM SPECIFICATIONS

Job No.
3139

Date
2.11.2026

E5.0