

architect



stamp



consultant

Attachment 1 lists the CALGreen Nonresidential Mandatory Measures adopted by DSA-SS. For the complete text, consult the 2019 Title 24, Part 11, California Green Building Standards Code.

project number CA5602
project director
project designer
project architect

revisions
no. date revision

project status

DSA BACKCHECK - V2
4-25-2023

client / project

OAK HILL ES
HARDSHIP
MODERNIZATION

CJUSD
3909 NORTH LOOP BLVD
ANTELOPE, CA 95843

sheet name

sheet number

plot date 5/15/2023 4:56:03 PM

ADSA GL-4 PROJECT SUBMITTAL GUIDELINE: CALGREEN CODE

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

Projects submitted to DSA for review, as a single project or as increments, must comply with the Title 24, Part 11, California Green Building Standards Code (CALGreen).

DSA-SS CALGreen regulatory requirements consists of compliance with the scoping requirements in CALGreen Chapter 3, Section 301.4 and the Nonresidential Mandatory Measures adopted by DSA-SS in Chapter 5. Please refer to the Chapter 5 Matrix Adoption Tables for each Division for the specific Mandatory Measures adopted by DSA-SS.

The measures outlined in CALGreen Chapter 5, Section 5.410.2 for building and site Commissioning and Section 5.410.4 for building and site Testing and Adjusting are not mandatory requirements for schools and community colleges, however, portions of these regulations are required by the California Energy Code with which all facilities must comply.

Attachment 1 lists the CALGreen Nonresidential Mandatory Measures adopted by DSA-SS. For the complete text, consult the 2019 Title 24, Part 11, California Green Building Standards Code.

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Table with 2 columns: TOTAL NUMBER OF ACTUAL PARKING SPACES, NUMBER OF REQUIRED EV CHARGING SPACES. Rows range from 0-9 to 201 and over.

Calculation for spaces shall be rounded up to the nearest whole number.

5.106.5.3.4 [N] Identification. The service panel or subpanel(s) circuit directory shall identify the reserved device space(s) for future EV charging as "EV CAPABLE."

5.106.5.3.5 [N] Future charging spaces. Future charging spaces qualify as designated parking as described in Section 5.106.5.2 Designated parking for clean air vehicles.

5.106.8 Light pollution reduction. [N] 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 0 to 4 as defined in Chapter 10, Section 10.1-14 of the California Administrative Code, and
2. Backlight, (B) ratings as defined in Illuminating Engineering Society of North America (IESNA) TM-15-11 (shown in TABLE A-1 in Chapter 8), and
3. Uplight and Glare ratings as defined in California Energy Code (shown in TABLES 130.2-A and 130.2-B in Chapter 8) and
4. Allowable Backlight, Uplight, and Glare (BUG) ratings not exceeding those shown in Table 5.106.8 [N], or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]
1. Luminaires that qualify as exceptions in Section 140.7 of the California Energy Code.
2. Emergency lighting.
3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.

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Notes:
1. [N] See also California Building Code, Chapter 12, Section 1205.7 for college campus lighting requirements for parking facilities and walkways.
2. Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for Illuminating Engineering Society Technical Memorandum TM-15-11 Table A-1, California Energy Code Tables 130.2-A and 130.2-B.
3. Refer to the California Energy Code for requirements for additions and alterations.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS (See CALGreen for TABLE)

5.106.10 Grading and paving. 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.

Exception: Additions and alterations not altering the drainage path.

5.106.12 Shade trees. [DSA-SS] Shade trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50% of the parking area within 15 years.

Exception: The surface parking area covered by solar photovoltaic shade structures, or shade structures with roofing materials that comply with Table AS.106.11.2.2 in Appendix AS, are not included in the total area calculation.

5.106.12.2 Landscape areas. Shade trees plantings, minimum #10 container size or equal, shall be installed to provide shade over 20% of the landscape area within 15 years.

Exception: Playfields for organized sport activity are not included in the total area calculation.

5.106.12.3 Hardscape areas. Shade trees plantings, minimum #10 container size or equal, shall be installed to provide shade over 20% of the hardscape area within 15 years.

Exception: Walks, hardscape areas covered by solar photovoltaic shade structures, and hardscape areas covered by shade structures with roofing materials that comply with Table AS.106.11.2.2 in Appendix AS, are not included in the total area calculation.

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Division 5.2 - ENERGY EFFICIENCY

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.

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Division 5.3 - WATER EFFICIENCY AND CONSERVATION

5.303 Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

5.303.3.1 Water closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specifications for Tank-Type Toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

5.303.3.2 Urinals.
5.303.3.2.1 Wall mounted urinals. The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush.
5.303.3.2.2 Floor mounted urinals. The effective flush volume of floor mounted or other urinals shall not exceed 0.5 gallons per flush.

5.303.3.3 Showerheads
5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specifications for showerheads.
5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.6 gallons per minute at 80 psi, or the showerhead shall be designed to allow only one shower outlet to be in operation at one time.

Note: A hand-held shower shall be considered a showerhead.
5.303.3.4 Faucets and fountains.
5.303.3.4.1 Non-residential lavatory faucets. Non-residential lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.
5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.
5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 [in space (inches) at 60 psi].
5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle.
5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per cycle/20 [in space (inches) at 60 psi].

Note: Where complying faucets are unavailable, aerators or other means may be used to achieve water reduction.
5.303.6 Standards for plumbing fixtures and fittings. Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 of the California Plumbing Code and in Chapter 6 of this code.

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SECTION 5.304 - OUTDOOR WATER USE

5.304.6 Outdoor potable water use in landscape areas. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficiency Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, California Code of Regulations, except that the Evapotranspiration Adjustment Factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.

5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet.
5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

DIVISION 5.4 - MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.407 - 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 1402.2 (Weather Protection), manufacturer's installation instructions, or local codes, 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 as follows:

5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water penetration by using nonabsorbent floor and wall finishes with at least 2 feet around and perpendicular to such openings plus at least one of the following:
1. An installed awning at least 4 feet in depth.
2. The door is protected by a roof overhang at least 4 feet in depth.
3. The door is recessed at least 4 feet.
4. Other methods which provide equivalent protection.

5.407.2.2.2 Flashing. Installed flashings integrated with a drainage plane.

SECTION 5.408 - CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

5.408.1 Construction waste management. Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition 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 plan that:

- 1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.

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2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition 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 and demolition waste material diverted from the landfill complies with this section.

Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.

Exceptions to Sections 5.408.1.1 and 5.408.1.2:
1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this section do not exist.
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.

5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65 percent minimum requirement as approved by the enforcing agency.

5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 5.408.1.1 through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

Notes:
1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located at www.hsc.ca.gov/home/CAL_Green_Standards may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris (C&D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

SECTION 5.410 - 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, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption of Public Resources Code 42649.82 (a)(2)(A) et seq. will also be exempt from the organics waste portion of this section.

5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the Public Resources Code. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's website.

DIVISION 5.5 ENVIRONMENTAL QUALITY

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Division 5.504.1 - POLLUTANT CONTROL

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 starting, coating, and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal 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. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

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 SCAG/MD 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 contain 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 (See CALGreen for TABLE)

TABLE 5.504.4.2 - SEALANT VOC LIMIT (See CALGreen for TABLE)

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.

TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS (See CALGreen for TABLE)

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 (c)(3) of California Code of Regulations, Title 17, commencing with Section 94507, 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.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:
1. Manufacturer's product specification.

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2. Field verification of on-site product containers.

5.504.4.4 Carpet systems. All carpet installed in the building interior shall meet at least one of the following testing and product requirements:

- 1. Carpet and Rug Institute's Green Label Plus Program;
2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health 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 CDPH Standard Method V1.1 or Specification 01350);
3. NSF/ANSI 140 at the Gold level or higher;
4. Scientific Certifications Systems Sustainable Choice; or
5. Compliant with the Collaborative for High Performance Schools California (CA-CHPS) Criteria 2014 and listed in the CHPS High Performance Product Database.

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's Green Label program.

5.504.4.2 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 (ATCM) for Composite Wood (17CCR 93123 et seq.). Those materials not exempted by the ATCM must meet the specified emission limits as shown in Table 5.504.4.5.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS (See CALGreen for TABLE)

5.504.4.6 Resilient flooring systems. For 80 percent of floor area receiving resilient flooring, installed resilient flooring shall meet at least one of the following:

- 1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program;
2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, Version 1.1, February 2010.
3. Compliant with the Collaborative for High Performance Schools California (CA-CHPS) Criteria 2014 and listed in the CHPS High Performance Product Database; or
4. Products certified under the UL GREENGUARD Gold (formerly the Greenguard Children & Schools program).

5.504.5.3 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 13. MERV 13 filters shall be installed prior to occupancy and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exception: Existing mechanical equipment.
5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

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SPRINKLER IRRIGATION NOTES

- COMPOSITE BASE SHEET: PROPOSED IMPROVEMENTS SHOWN ON DRAWINGS ARE SUPERIMPOSED ON A COMPOSITE BASE SHEET. THE COMPOSITE BASE SHEET IS A COMPILATION OF ARCHITECTURAL, ENGINEERING, AND OTHER DATA THAT IS PROVIDED. THE LANDSCAPE ARCHITECT SHALL NOT BE HELD LIABLE FOR CHANGES, INACCURACIES, OMISSIONS, OR ERRORS PERTAINING TO THE COMPOSITE BASE SHEET. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THESE DOCUMENTS. ANY DISCREPANCIES NEED TO BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM AND RESOLVED PRIOR TO CONTINUATION OF WORK.
- DESIGN PRESSURE SHOWN ON PLANS HAS BEEN FURNISHED BY WATER COMPANY OR WATER DISTRICT SERVING SITE. VERIFY PRESSURE ON-SITE PRIOR TO THE INSTALLATION OF ANY SPRINKLER IRRIGATION EQUIPMENT. IF THERE IS A DISCREPANCY, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY IN WRITING SO ADJUSTMENTS CAN BE MADE BY LANDSCAPE ARCHITECT. FAILURE TO REPORT DISCREPANCIES AND CONTINUANCE OF WORK WILL RESULT IN ALL RE-DESIGN COSTS BEING CHARGED TO CONTRACTOR.
- DETERMINE LOCATION OF UNDERGROUND UTILITIES: DAMAGE CAUSED BY INSTALLATION OF THIS WORK SHALL BE REPAIRED TO SATISFACTION OF GOVERNING AGENCY OR OWNER AT NO ADDITIONAL COST TO THE CONTRACTOR.
- SPRINKLER OVER SPRAY SHALL NOT BE ALLOWED ON PUBLIC SIDEWALKS, BUILDING WALLS OR FENCES. MINIMUM OVERSPRAY MAY OCCUR IN PARKING AREAS. USE ADJUSTABLE NOZZLES WHENEVER POSSIBLE TO CONTROL SPRINKLER OVERSPRAY.
- ALL LOCAL CODES AND ORDINANCES SHALL BE COMPLIED WITH. IF THERE IS A CONFLICT, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY.
- TESTING:
 - PRESSURE TEST ALL UNDERGROUND PIPING AS FOLLOWS:
LATERAL LINES - AT STATIC PSI FOR 2 HOURS.
 - COVERAGE TEST:
NOTE: PRIOR TO REQUESTING COVERAGE TEST, INSURE ALL HEADS ARE SET PLUMB, NOZZLES ARE ADJUSTED PROPERLY AND SYSTEM HAS BEEN CHECKED FOR AUTOMATION.
REQUEST OWNER'S REPRESENTATIVE'S PRESENCE ON-SITE WHEN SPRINKLER SYSTEM IS COMPLETELY INSTALLED AND FULLY AUTOMATIC. PROVIDE ADEQUATE PERSONNEL AT THIS MEETING TO ADJUST AND FINE TUNE SYSTEM TO SATISFACTION OF OWNER'S REPRESENTATIVE.
- LAYOUT ALL WORK PRIOR TO TRENCHING OPERATIONS TO DETERMINE IF MINOR MODIFICATIONS OR ADJUSTMENTS WILL BE REQUIRED.
- INSTALL ALL SPRINKLER HEADS PERPENDICULAR TO SLOPES OR GRADE.
- COORDINATE ALL WORK WITH OTHER TRADES SO PROGRESS OF WORK IS NOT INTERRUPTED AND CAN BE COMPLETED IN A TIMELY MANNER.
- NO PLANTING SHALL BE STARTED UNTIL ALL SPRINKLER WORK HAS BEEN TESTED AND APPROVED IN PRESENCE OF OWNER'S REPRESENTATIVE.
- FOR LANDSCAPE IRRIGATION INSTALLATION DETAILS, SEE SHEET NO. L4-1.

PRE-CONSTRUCTION SPRINKLER IRRIGATION NOTES

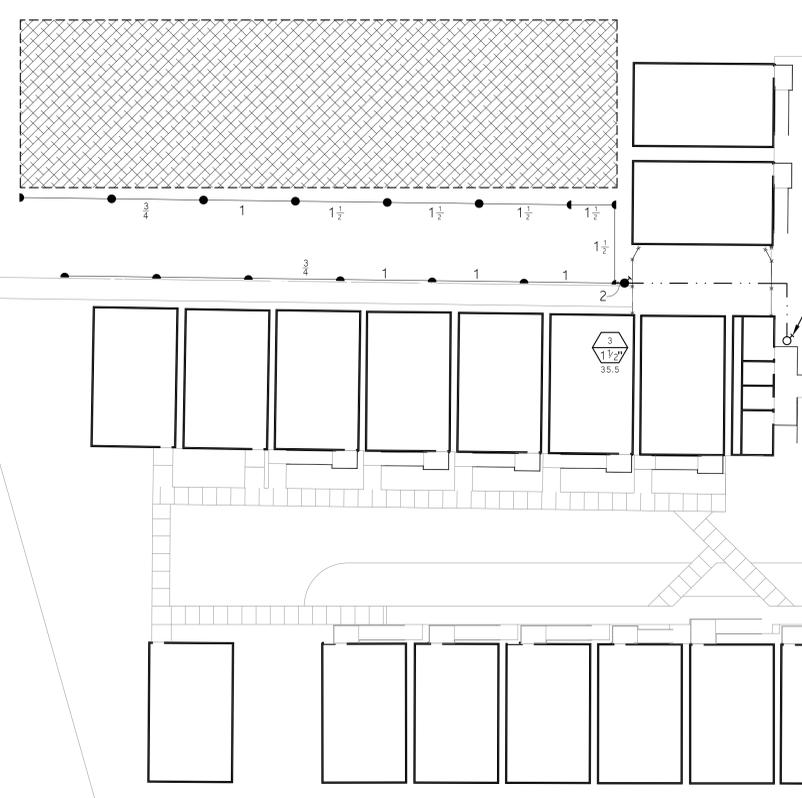
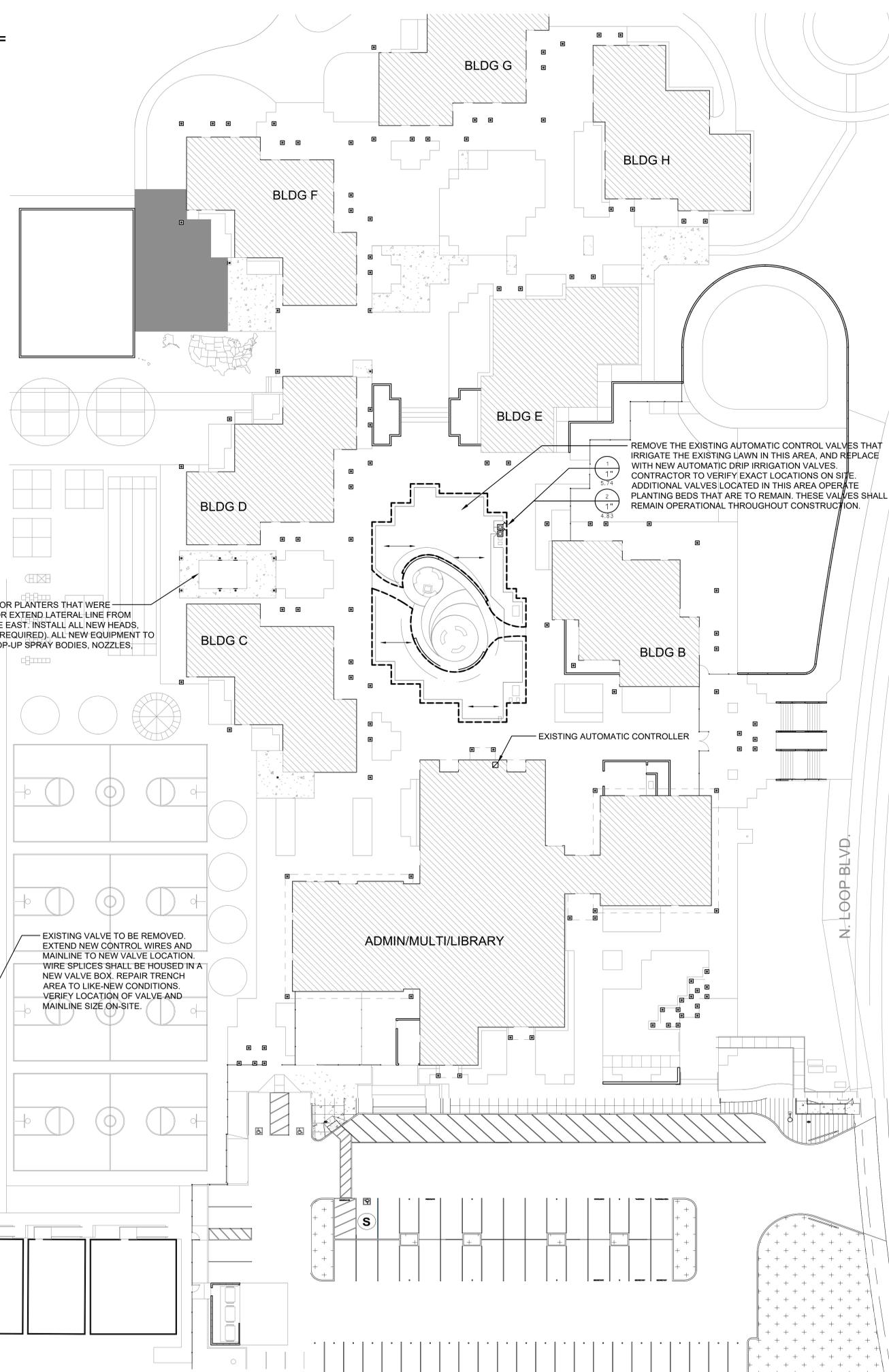
- PRIOR TO START OF CONSTRUCTION CONTRACTOR REQUIRED TO CONTACT IVAN CALHOUN WITH CENTER UNIFIED SCHOOL DISTRICT TO SET UP A MEETING ON SITE TO OPERATE THE EXISTING SPRINKLER IRRIGATION SYSTEM AND DISCUSS THE MODIFICATIONS THAT ARE TO BE MADE TO THE EXISTING SYSTEM TO ACCOMMODATE FOR THE NEW CONSTRUCTION.
- CONTRACTOR TO OPERATE AND PROGRAM EXISTING SPRINKLER IRRIGATION SYSTEM THAT IS TO REMAIN IN ORDER TO PROVIDE WATER TO THE EXISTING LANDSCAPE TO REMAIN.
- CONTRACTOR TO REMOVE ALL EXISTING PIPE AND SPRINKLER HEADS WHEN THEY ARE IN NEW PLANTING AREAS.
- CONTRACTOR TO RESTORE AND REPAIR ANY EXISTING SPRINKLER IRRIGATION SYSTEM OR EXISTING LANDSCAPE WHICH IS IN AREAS TO REMAIN THAT IS DAMAGED BY NEW WORK.
- ALL WORK TO EXISTING SPRINKLER IRRIGATION SYSTEM TO BE COMPLETED PRIOR TO SITE DEMOLITION.

KEY



SPRINKLER IRRIGATION LEGEND

- EXISTING AUTOMATIC CONTROLLER TO REMAIN:**
- PRESSURE MAIN LINE:**
TYPE:
3" SIZE AND SMALLER: ASTM D1785, PVC SCH 40.
4" SIZE AND LARGER: ASTM D2241 SDR 21, 200 PSI, RUBBER GASKETED.
TRENCH DEPTH:
IN PLANTED AREAS: 24" MINIMUM COVER.
UNDER PAVED AREAS: 24" MINIMUM COVER.
PVC SCHEDULE 40 SLEEVES ARE REQUIRED FOR ALL PIPING UNDER PAVEMENT.
- LATERAL LINE:**
TYPE:
PVC SCHEDULE 40, SOLVENT WELD ALL UNSIZED PIPE SHALL BE 3/4" SIZE.
TRENCH DEPTH:
IN PLANTED AREAS:
POP-UP SPRAY HEADS - 12" MINIMUM COVER.
UNDER PAVED AREAS: 24" MINIMUM COVER.
PVC SCHEDULE 40 SLEEVES ARE REQUIRED FOR ALL PIPING UNDER PAVEMENT.
- AUTOMATIC CONTROL VALVE:**
RAINBIRD PEB-PRS-D SERIES
VALVE SHALL HAVE PRESSURE REGULATION OPTION.
- EXISTING AUTOMATIC CONTROL VALVE TO BE REPLACED**
- AUTOMATIC DRIP IRRIGATION VALVE/FILTER/PRESSURE REGULATOR:**
RAINBIRD CONTROL ZONE KIT MODEL XC2-100-PRB-COM.
- LAWN POP-UP SPRAY HEADS:**
RAINBIRD: 1604-SM4 BODY WITH HUNTER MP3000 SERIES NOZZLES.
FULL, HALF, AND QUARTER SPRAY PATTERNS.
NOTE:
ADJUST LAYOUT AS NEEDED TO ENSURE HEAD-TO-HEAD COVERAGE WITH THE EXISTING ROTOR HEADS TO THE NORTH. ALL NEW HEADS SHALL BE TRIANGULATED AND EVENLY SPACED TO PROVIDE HEAD-TO-HEAD COVERAGE.
- INLINE DRIP SYSTEM:**
NETAFIM TUBING TO BE TECHLINE CV AND IS TO BE INSTALLED IN THE DIRECTION OF THE ARROW AS SHOWN ON PLAN. TECHLINE TO BE INSTALLED ON GRADE IN SHRUB BEDS.
MANUAL LINE FLUSHING VALVE TO BE INSTALL ON THE PVC PIPE IN AN EMITTER BOX BELOW GRADE.
PVC SCHEDULE 40 LATERAL LINES SHOWN ON THE PLAN, NETAFIM TECHLINE CV NOT SHOWN.
NETAFIM DRIP TUBING SPACING:
SHRUB/GROUNDCOVER PLANTER AREAS: 18" ROW SPACING (0.4 GPH @ 18" SPACING)
TECHLINE CV TUBING NOT TO EXCEED 400' IN A SINGLE RUN.
- MANUAL LINE FLUSHING VALVE IN BOX:**
- INDICATES CONTROL VALVE AND STATION NUMBER
- INDICATES CONTROL VALVE SIZE
- INDICATES GALLONS PER MINUTE
- IRRIGATION ADJUSTMENT AREA:**
THIS AREA CONTAINS EXISTING LAWN ROTORS, PLUMB AND LEVEL ALL EXISTING HEADS AND ENSURE HEAD-TO-HEAD COVERAGE WITH THE NEW HUNTER MP3000 POP-UP SPRAY HEADS PRIOR TO INSTALLING SOD.



dsa

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121265 INC.
REVIEWED FOR:
SS FLS ACS
DATE: 05/24/2023

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20-37
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MTW group

project number CA5602
project director
project designer
project architect

revisions
no. date revision

project status
DSA SUBMITTAL
4-25-2023

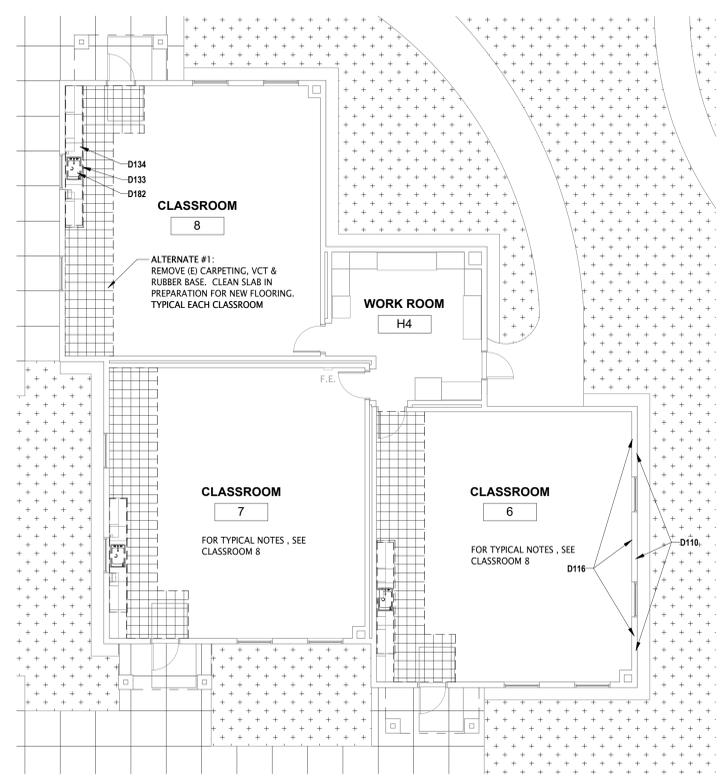
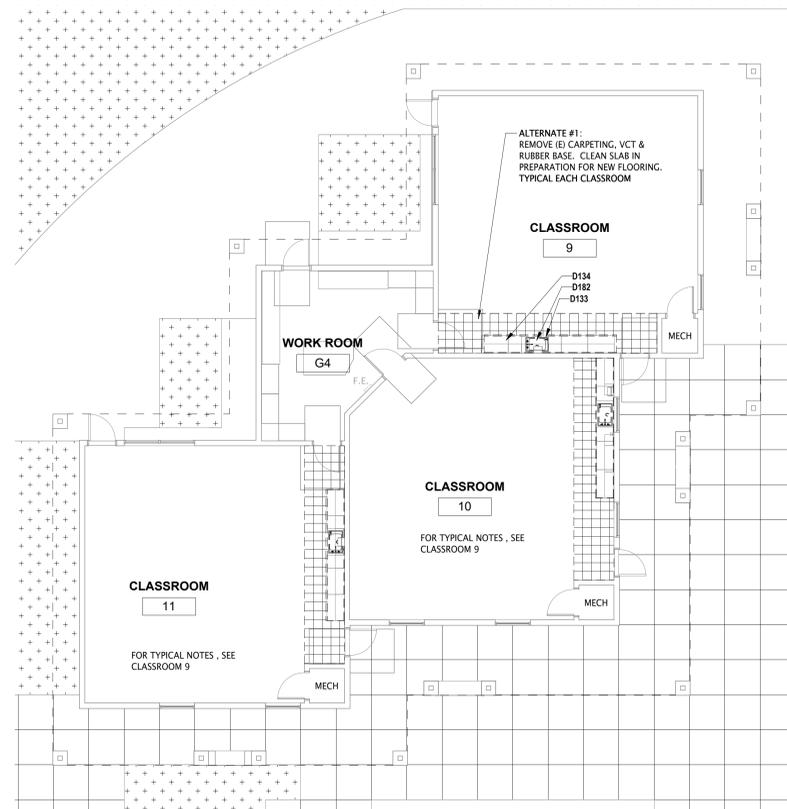
client / project

**OAK HILL ES
HARDSHIP
MODERNIZATION**
CJUSD
3909 NORTH LOOP BLVD
ANTELOPE, CA 95843

sheet name
**LANDSCAPE
IRRIGATION PLAN**

sheet number
L2.1

plot date 3/22/2023 3:38:04 PM



DEMOLITION GENERAL NOTES

- A. SEE SHEET 00.1, PROJECT NOTE 12 REGARDING FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION.
- B. AT EXTERIOR WALLS MAKE CUTS TIGHT TO PENETRATING ITEMS AND SEAL W/ JOINT SEALANTS.
- C. REMOVE (E) GYPSUM BOARD AT LOCATIONS OF NEW CASEWORK AS NECESSARY FOR INSTALLATION OF BLOCKING IN WALL.
- D. FOR ADDITIONAL INFORMATION SEE MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS.
- E. WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AS NOTED ON THE TITLE SHEET.
- F. PRESERVE AND PROTECT EXISTING CONDITIONS THAT ARE TO REMAIN. SECURE THE PROPERTY DURING CONSTRUCTION.
- G. IN AREAS OF WORK, VERIFY AND LOCATE EXISTING UNDERGROUND UTILITIES AND AVOID DAMAGE TO SAME.
- H. CONDITIONS OBSERVED ON SITE WHICH SHALL AFFECT THE DEMOLITION, THAT ARE NOT OTHERWISE NOTED IN THESE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- I. ITEMS NOTED TO BE REMOVED AND NOT RELOCATED ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF IN THE PROPER MANNER.
- J. FOR PROJECT GOVERNING CODES SEE SHEET 00.1.

GENERAL NOTES

- A. FOR ADDITIONAL INFORMATION SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
- B. FOR DOOR SCHEDULE AND DOOR LEGEND, SEE SHEET **A10.1**.
- C. FOR WALL TYPES AND WALL FRAMING DETAILS, SEE SHEET **A8.2**.
- D. FOR INTERIOR ELEVATIONS, SEE SHEETS **A5.1 A5.2**.
- E. FOR MOUNTING HEIGHTS AND DIMENSIONS SEE DETAIL **8/A9.2**.
- F. FOR ACCESSIBILITY CLEARANCES AND DIMENSIONS SEE SHEET **A9.1**.
- G. DIMENSIONS: DIMENSIONS ARE SHOWN TO FACE OF WALL, U.N.O.
- H. FOR SIGNAGE REQUIREMENTS, SEE SHEET **A8.2**.
- I. FOR ACCESSIBLE CONTROL HEIGHTS SEE DETAIL **7/A9.2**.

DEMOLITION NOTES

- D110 REMOVE (E) CEMENT PLASTER, LATH & UNDERLAYMENT TO WALL SHEATHING, TO EXTENT INDICATED ON EXTERIOR ELEVATION.
- D116 REMOVE (E) GYPSUM BOARD & BATT INSULATION AT THIS WALL.
- D133 REMOVE (E) SINK BASE CABINET.
- D134 REMOVE (E) PLASTIC LAMINATE COUNTER TOP, FULL LENGTH.
- D182 REMOVE (E) SINK, FAUCET & ASSOCIATED PIPING. NEW FIXTURE TO CONNECT TO (E) PIPING.

DRAWING NOTES

- 107 NO FINISH WORK: FLOOR, WALLS, CEILING, DOORS & FRAMES TYPICAL IN WORK ROOM.
- 193 (E) H.M. WINDOW TO REMAIN.
- 200 (N) CEMENT PLASTER ON LATH OVER WEATHER RESISTIVE BARRIER.
- 218 5/8" GYPSUM BOARD OVER INTERIOR FACE OF (E) STUDS. FILL STUD SPACES W/ R-19 BATT INSULATION.
- 221 PROVIDE ROOM IDENTIFICATION SIGNAGE, TYP AT EACH DOOR.
- 251 PLASTIC LAMINATE SINK BASE CABINET. INSERT BETWEEN (E) CASEWORK.
- 253 PLASTIC LAMINATE COUNTER TOP W/ BACKSPLASH.
- 254 EXISTING TALL CABINET WITH IDF EQUIPMENT. RETROFIT DOOR TO MAKE CABINET LOCKABLE. CUT VENT OPENING IN DOOR AND PROVIDE METAL LOUVER FOR VENTING. DRILL UPPER CABINET FOR CONDUIT PENETRATION.
- 265 ACCESSIBLE SINK & FAUCET WITH DRINKING FOUNTAIN BUBBLER. CONNECT TO (E) PIPING.

EXIT ANALYSIS LEGEND

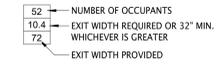
EXIT REQUIREMENTS & EGRESS WIDTHS

- EXITS REQUIRED (PER CBC 1021.3)
- OCCUPANCY 1-500 = 2
- OCCUPANCY 501-1,000 = 3
- OCCUPANCY > 1,000 = 4

- MIN. EGRESS WIDTHS (PER CBC 1005.3.2)
- DOOR WIDTH = 0.2' / OCCUPANT

ROOM NAME

ROOM NUMBER	SF	OCC. CLASS	LOAD FACTOR	# OF OCCUPANTS



F.E. (E) WALL MOUNTED FIRE EXTINGUISHER

F.E. (N) WALL MOUNTED FIRE EXTINGUISHER

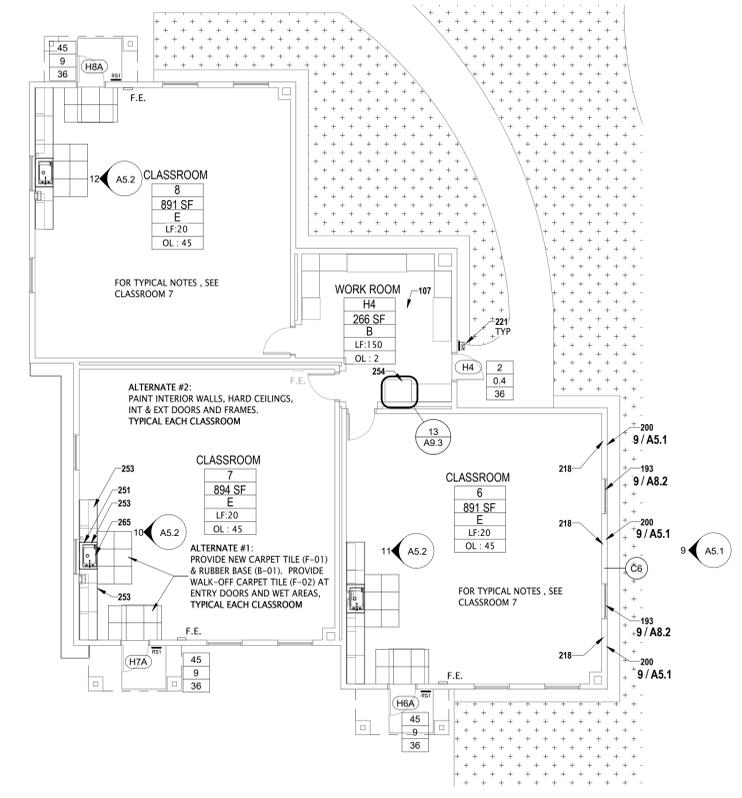
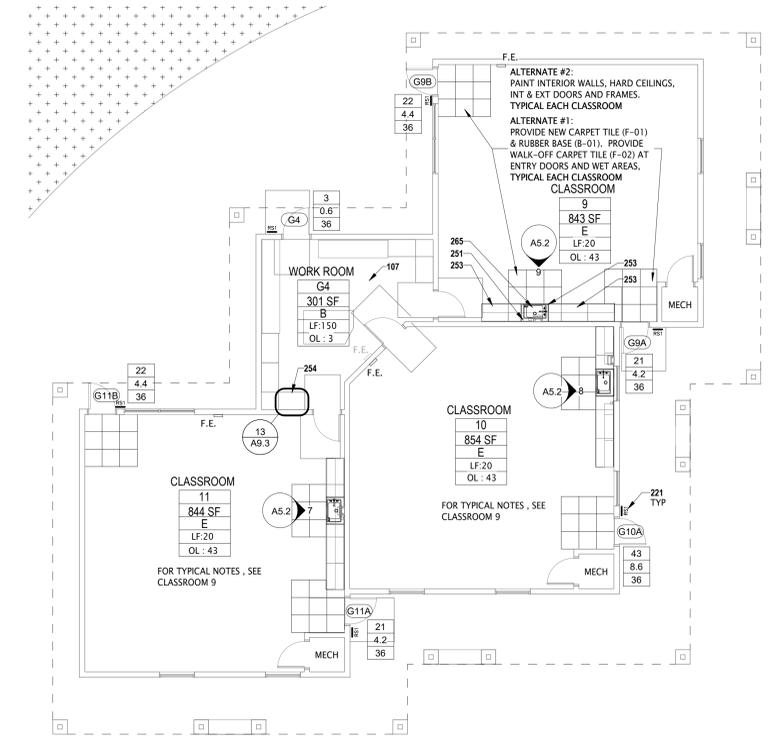
'PH' INDICATES PANIC HARDWARE

WALL LEGEND

(E) 2X6 ONE HOUR STUD WALL

4 DEMOLITION PLAN - BUILDING G (MONTEREY BAY)
1/8" = 1'-0"

2 DEMOLITION PLAN - BUILDING H (SHASTA LAKE)
1/8" = 1'-0"



3 FLOOR PLAN - BUILDING G (MONTEREY BAY)
1/8" = 1'-0"

1 FLOOR PLAN - BUILDING H (SHASTA LAKE)
1/8" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121265 INC.
REVIEWED FOR
FLS ACS
DATE: 05/24/2023

AC MARTIN
3039 DOUGLAS BLVD, SUITE 290
ROSEVILLE, CA 95661 T 916 772 1800

LICENSED ARCHITECT
RICHARD A. PARRS
C-28637
Exp. Dec. 31, 2023
STATE OF CALIFORNIA

project number CA5602
project director
project designer
project architect

no.	date	revision

ROOM NAME	SF	OCC. CLASS	LOAD FACTOR	# OF OCCUPANTS

project status

no.	date	revision

DSA BACKCHECK - V2
4-25-2023

client / project

**OAK HILL ES
HARDSHIP
MODERNIZATION**
CJUSD
3909 NORTH LOOP BLVD
ANTELOPE, CA 95843

sheet name

**FLOOR PLANS &
DEMOLITION PLANS**
BUILDINGS G&H

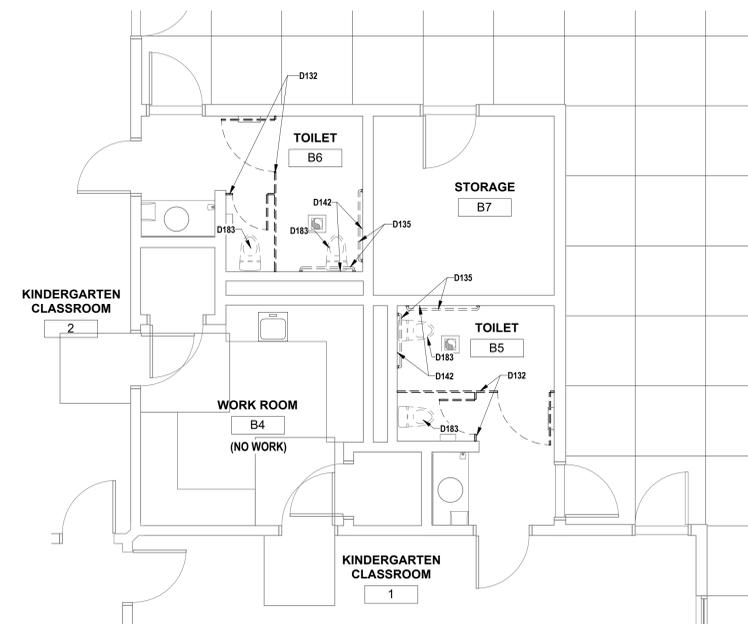
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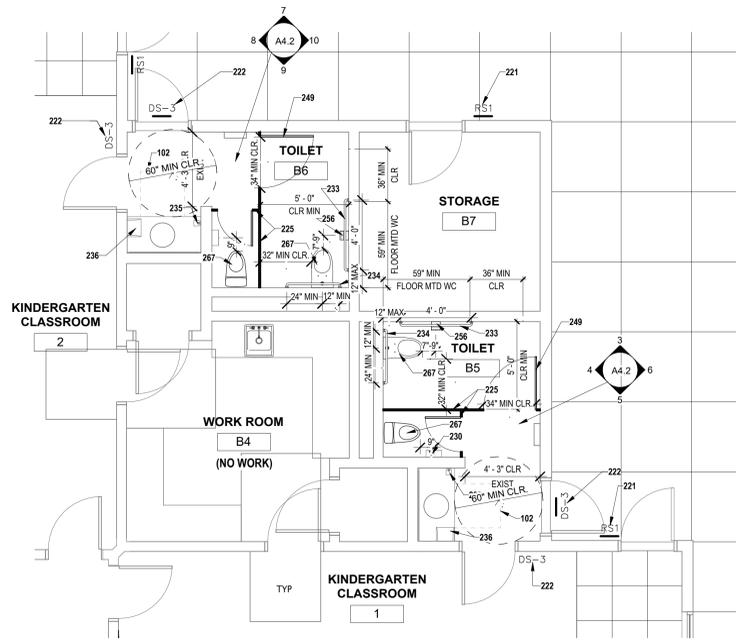
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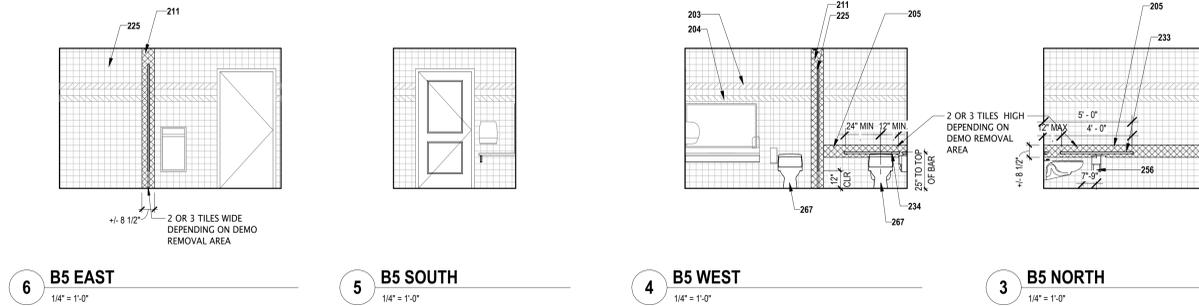
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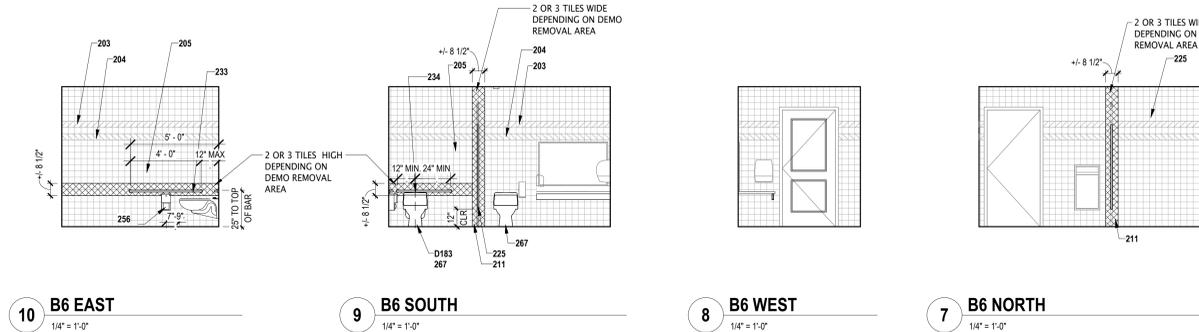
2 RESTROOM DEMOLITION PLAN - BUILDING B (LAKE TAHOE)
1/4" = 1'-0"



1 RESTROOM PLAN - BUILDING B (LAKE TAHOE)
1/4" = 1'-0"



BUILDING B - TOILET B5



BUILDING B - TOILET B6

DEMOLITION GENERAL NOTES

- A. SEE SHEET G0.1, PROJECT NOTE 12 REGARDING FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION.
- B. AT EXTERIOR WALLS MAKE CUTS TIGHT TO PENETRATING ITEMS AND SEAL W/ JOINT SEALANTS.
- C. REMOVE (E) GYPSUM BOARD AT LOCATIONS OF NEW CASEWORK AS NECESSARY FOR INSTALLATION OF BLOCKING IN WALL.
- D. FOR ADDITIONAL INFORMATION SEE MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS.
- E. WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AS NOTED ON THE TITLE SHEET.
- F. PRESERVE AND PROTECT EXISTING CONDITIONS THAT ARE TO REMAIN. SECURE THE PROPERTY DURING CONSTRUCTION.
- G. IN AREAS OF WORK, VERIFY AND LOCATE EXISTING UNDERGROUND UTILITIES AND AVOID DAMAGE TO SAME.
- H. CONDITIONS OBSERVED ON SITE WHICH SHALL AFFECT THE DEMOLITION, THAT ARE NOT OTHERWISE NOTED IN THESE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- I. ITEMS NOTED TO BE REMOVED AND NOT RELOCATED ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF IN THE PROPER MANNER.
- J. FOR PROJECT GOVERNING CODES SEE SHEET G0.1.

GENERAL NOTES

- A. FOR ADDITIONAL INFORMATION SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
- B. FOR DOOR SCHEDULE AND DOOR LEGEND, SEE SHEET **A10.1**
- C. FOR WALL TYPES AND WALL FRAMING DETAILS, SEE SHEET **A8.2**
- D. FOR INTERIOR ELEVATIONS, SEE SHEETS **A5.1** **A5.2**
- E. FOR MOUNTING HEIGHTS AND DIMENSIONS SEE DETAIL **8 / A9.2**
- F. FOR ACCESSIBILITY CLEARANCES AND DIMENSIONS SEE SHEET **A9.1**
- G. DIMENSIONS: DIMENSIONS ARE SHOWN TO FACE UNLESS NOTED OTHERWISE.
- H. FOR SIGNAGE REQUIREMENTS, SEE SHEET **A9.2**
- I. FOR ACCESSIBLE CONTROL HEIGHTS SEE DETAIL **7 / A9.2**

DEMOLITION NOTES

- D132 REMOVE (E) TOILET PARTITIONS & SAVE FOR REINSTALLATION.
- D135 REMOVE (E) GRAB BARS AND SAVE FOR REINSTALLATION.
- D142 REMOVE (E) CERAMIC TILE AND WATER RESISTANT GYPSUM BOARD BACKING TO EXTENT SHOWN ON INTERIOR ELEVATIONS.
- D183 REMOVE (E) WATER CLOSET.

DRAWING NOTES

- 102 30' x 48" MINIMUM CLEAR FLOOR SPACE FOR WHEELCHAIR ACCESS.
- 203 (E) BLUE CERAMIC TILE ACCENT BAND.
- 204 (E) GREEN CERAMIC TILE ACCENT BAND.
- 205 (N) CERAMIC TILE OVER WATER RESISTANT GYPSUM BOARD WHERE TILE WAS REMOVED.
- 211 (N) CERAMIC TILE.
- 221 PROVIDE ROOM IDENTIFICATION SIGNAGE, TYP AT EACH DOOR.
- 222 RESTROOM DOOR AND WALL SIGNAGE, TYP AT EACH RESTROOM DOOR.
- 225 (E) TOILET PARTITION REINSTALLED. MODIFY AS NECESSARY TO FIT ACCESSIBILITY DIMENSIONS. PROVIDE BLOCKING AND MOUNT PER DETAILS.
- 230 (E) SURFACE MOUNTED TOILET PAPER DISPENSER TO REMAIN.
- 233 (E) GRAB BAR, 48" LONG x 1 1/2" DIA, REINSTALL AT SIDE WALL OF ACCESSIBLE W.C., SEE DETAIL 4/A9.3
- 234 (E) GRAB BAR, 36" LONG x 1 1/2" DIA, REINSTALL AT REAR WALL OF ACCESSIBLE W.C., SEE DETAIL 4/A9.3
- 235 (E) SURFACE MOUNTED SOAP DISPENSER TO REMAIN.
- 236 (E) WALL MOUNTED PAPER TOWEL DISPENSER TO REMAIN.
- 249 REWORK (E) 36" WIDE TOILET PARTITION DOOR TO OPEN IN.
- 256 (N) SURFACE MOUNTED TOILET PAPER DISPENSER.
- 267 (N) WATER CLOSET AT ORIGINAL LOCATION W/ FLUSH HANDLE ON WIDE SIDE OF STALL.

dsa



architect



stamp



consultant

project number CA5602
 project director
 project designer
 project architect

revisions
 no. date revision

project status

DSA BACKCHECK - V2
4-25-2023

client / project

**OAK HILL ES
 HARDSHIP
 MODERNIZATION**

CJUSD
 3909 NORTH LOOP BLVD
 ANTELOPE, CA 95843

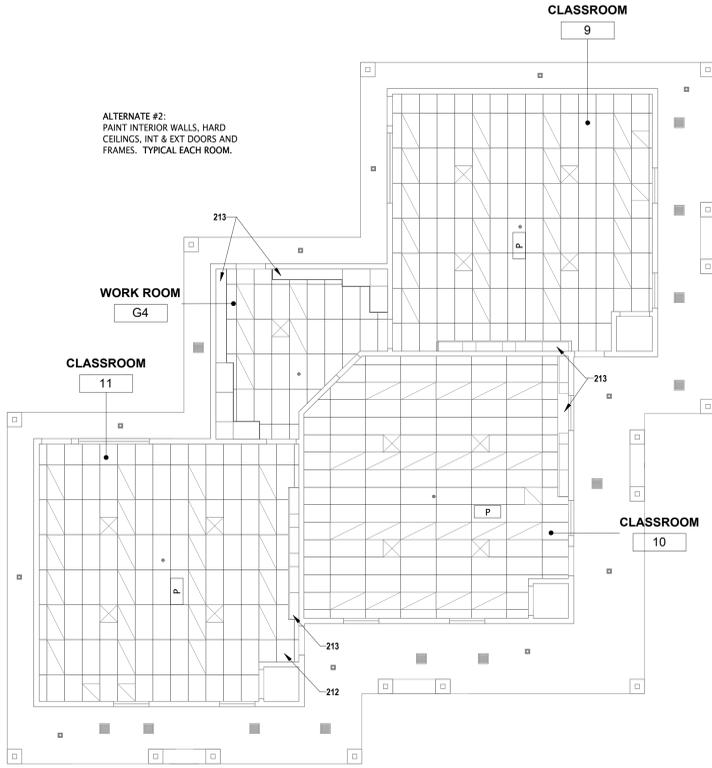
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**BUILDING B
 RESTROOM PLANS &
 INT ELEVS**

sheet number

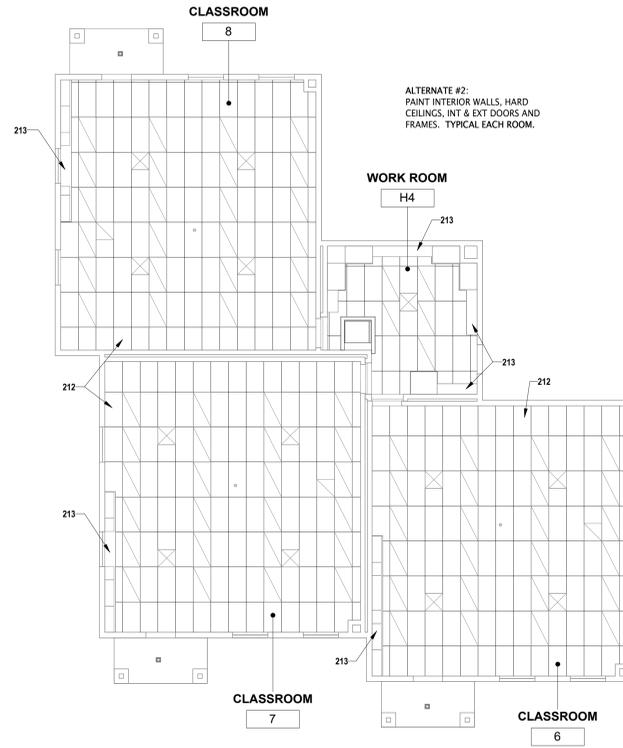
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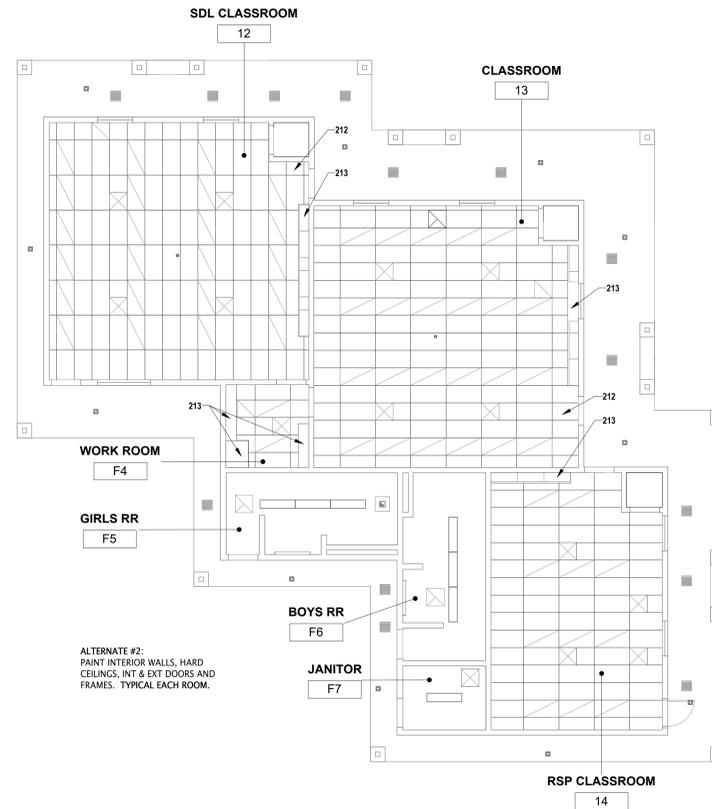
4 REFLECTED CEILING PLAN - BUILDING G (MONTEREY BAY)

1/8" = 1'-0"



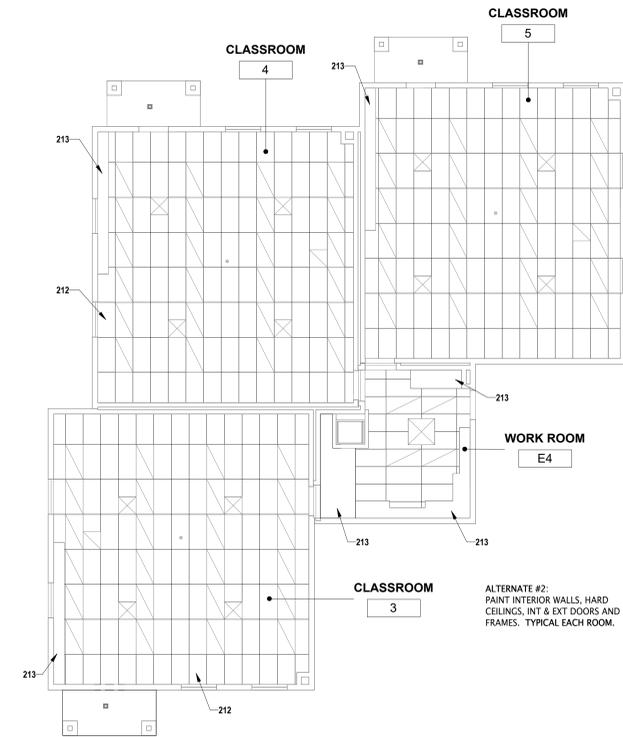
5 REFLECTED CEILING PLAN - BUILDING H (SHASTA LAKE)

1/8" = 1'-0"



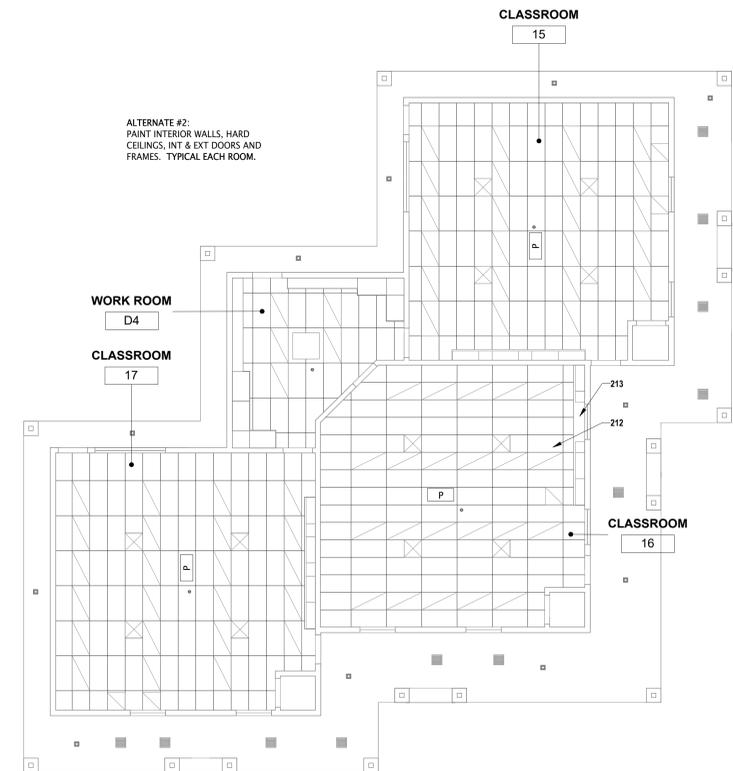
3 REFLECTED CEILING PLAN - BUILDING F (SAN FRANCISCO)

1/8" = 1'-0"



2 REFLECTED CEILING PLAN - BUILDING E (EMERALD BAY)

1/8" = 1'-0"



1 REFLECTED CEILING PLAN - BUILDING D (TRINIDAD BAY)

1/8" = 1'-0"

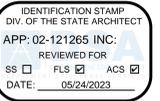
GENERAL NOTES

- FOR ADDITIONAL INFORMATION SEE PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS.
- REPLACE CEILING PANELS IF DAMAGED OR AS REQUIRED FOR FIRE ALARM WORK. PROVIDE MINIMUM 30% CEILING PANEL REPLACEMENT.
- PROTECT SPRINKLER HEADS FROM DAMAGE OR OVERSPRAY.

DRAWING NOTES

- 212 (E) 3/4" LAY-IN ACOUSTIC PANEL CEILING IN SUSPENDED METAL GRID TO REMAIN.
- 213 (E) GYPSUM BOARD CEILING/SOFFIT TO REMAIN. PAINT AS PART OF ALTERNATE #1.

dsla



architect

AC MARTIN
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ROSEVILLE, CA 95661 T 916 772 1800

stamp



consultant

project number CA5602
project director
project designer
project architect

revisions
no. date revision

project status

**DSA BACKCHECK - V2
4-25-2023**

client / project

**OAK HILL ES
HARDSHIP
MODERNIZATION**

CJUSD
3909 NORTH LOOP BLVD
ANTELOPE, CA 95843

sheet name

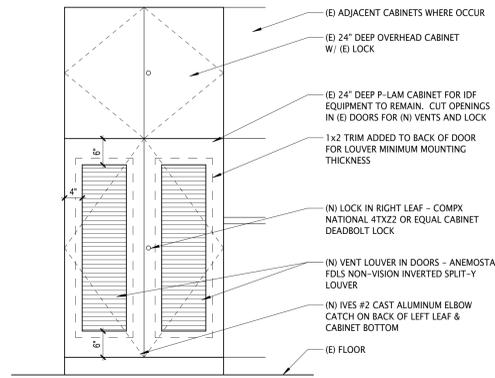
**REFLECTED CEILING
PLANS BUILDINGS
D-H**

sheet number

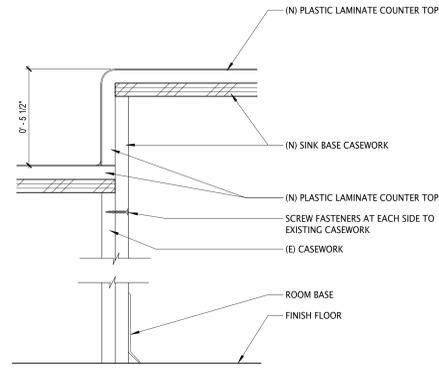
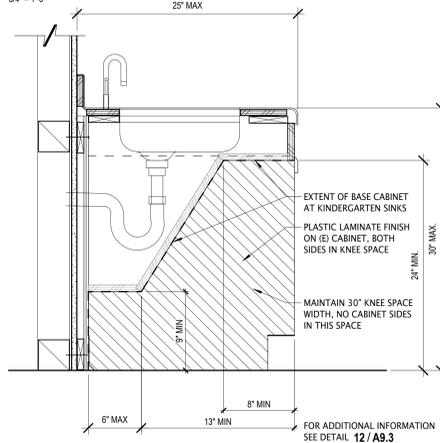
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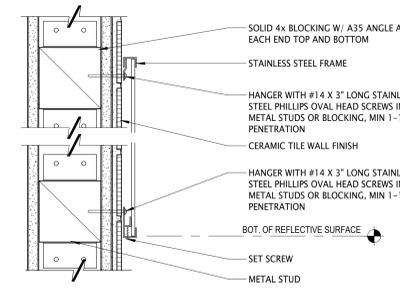
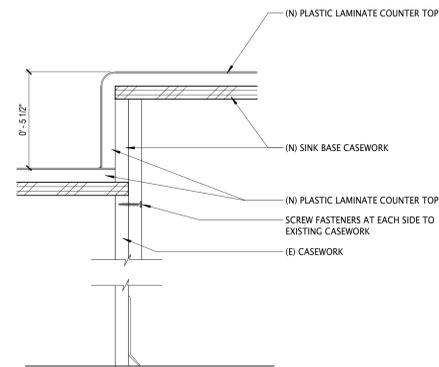
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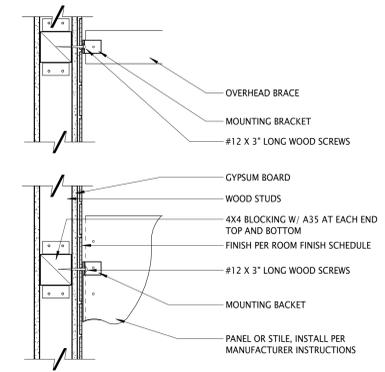
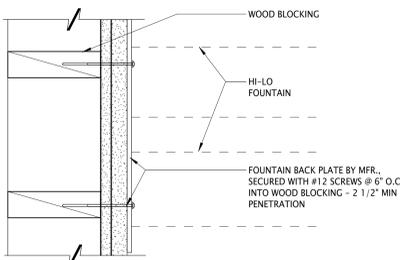
13 CAB - WORKROOM IDF CABINET
34" = 1'-0"



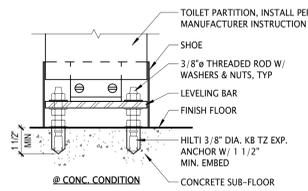
9 CAB - TYP. CLASSROOM SINK CASEWORK
3" = 1'-0"



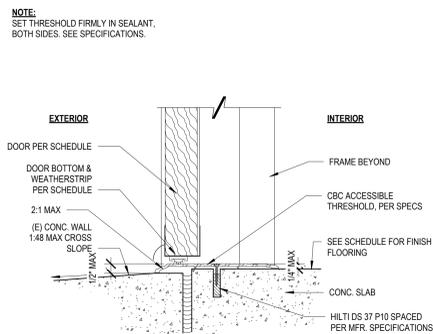
5 MIRROR ATTACHMENT
3" = 1'-0"



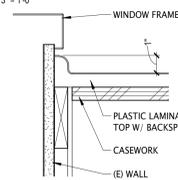
1 TOILET PARTITION WALL ANCHORAGE
1 1/2" = 1'-0"



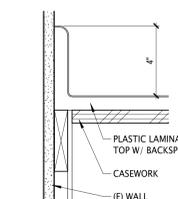
14 CAB - BUILDING B CABINET PROFILE (FOR CHILDREN 6-12 YRS)
1 1/2" = 1'-0"



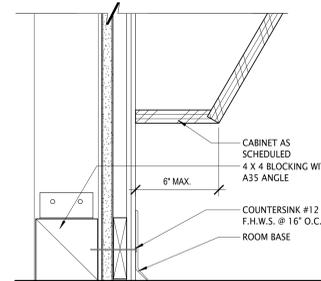
10 CAB - BUILDING B CLASSROOM SINK CASEWORK
3" = 1'-0"



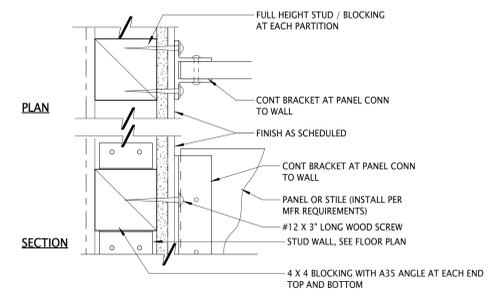
11A CAB - CASEWORK BACKSPASH AT WINDOW
3" = 1'-0"



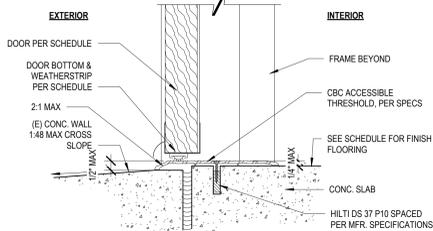
6 DRINKING FOUNTAIN MOUNTING @ WD BLKG
3" = 1'-0"



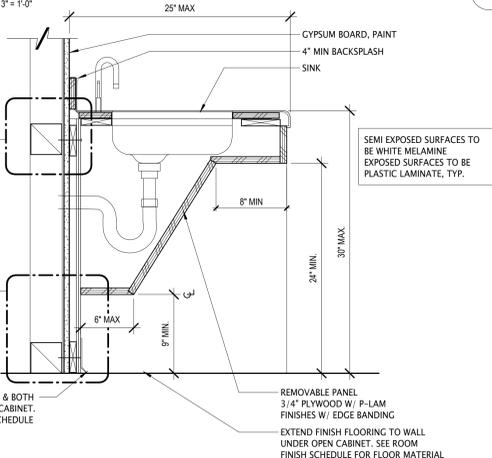
2 TOILET PARTITION CONC FLOOR ANCHORAGE
3" = 1'-0"



15 DOOR - EXTERIOR THRESHOLD
3" = 1'-0"



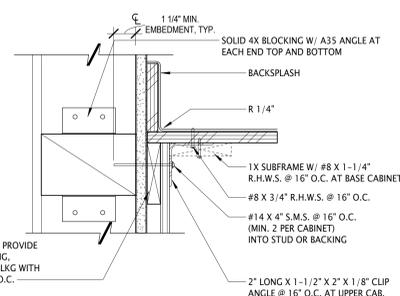
11 CAB - CASEWORK BACKSPASH, TYPICAL
3" = 1'-0"



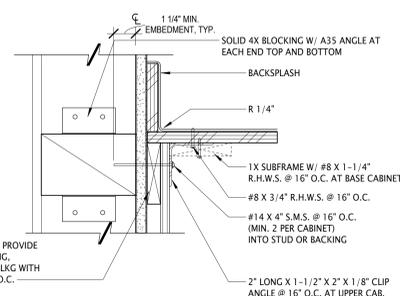
12 CAB - ACCESSIBLE SINK (FOR CHILDREN 6-12 YRS.)
1 1/2" = 1'-0"



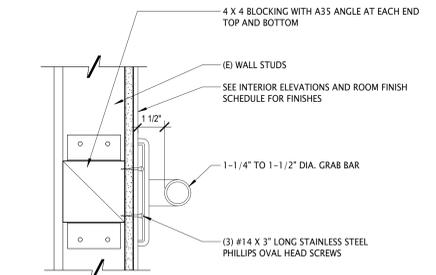
7 CAB - ACC BASE CABINET ATTACHMENT
3" = 1'-0"



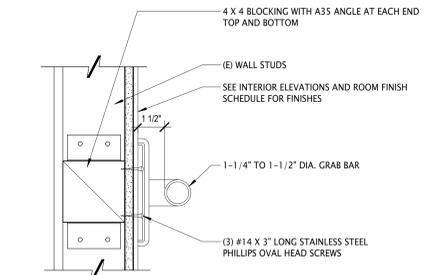
8 CAB - WALL CABINET ATTACHMENT
3" = 1'-0"



3 URINAL PARTITION WALL ANCHORAGE
3" = 1'-0"



4 GRAB BAR MOUNTING
3" = 1'-0"



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121265 INC.
REVIEWED FOR:
SS FLS ACS
DATE: 05/24/2023

ARCHITECT
AC MARTIN
3089 DOUGLAS BLVD. SUITE 290
ROSEVILLE CA 95661 T 916 772 1800

CONSULTANT
LICENSED ARCHITECT
RICHARD A. PARRS
C-28637
Exp. Dec. 31, 2023
STATE OF CALIFORNIA

PROJECT NUMBER: CA5602
PROJECT DIRECTOR:
PROJECT DESIGNER:
PROJECT ARCHITECT:

REVISIONS
NO. DATE REVISION

PROJECT STATUS

DSA BACKCHECK - V2
4-25-2023

CLIENT / PROJECT

**OAK HILL ES
HARDSHIP
MODERNIZATION**

CJUSD
3909 NORTH LOOP BLVD
ANTELOPE, CA 95843

SHEET NAME

INTERIOR DETAILS

SHEET NUMBER

A9.3

PLOT DATE: 5/15/2023 4:54:02 PM

ROOM FINISH SCHEDULE											
NUMBER	ROOM NAME	FLOOR	BASE	WALLS				DOORS/TRIM	CEILING		NOTES
				NORTH	EAST	SOUTH	WEST		MATERIAL	FINISH	
A137	Room										
BUILDING A											
A100	MULTIPURPOSE ROOM	-	-	-	-	-	-	-	-	-	
A101	LOBBY CORRIDOR	-	-	-	-	-	-	-	-	-	
A102	ADMINISTRATION	-	-	-	-	-	-	-	-	-	
A103	CLOSET	-	-	-	-	-	-	-	-	-	
A104	NURSE	-	-	-	-	-	-	-	-	-	
A105	TOILET	-	-	-	-	-	-	-	-	-	
A106	TOILET	-	-	-	-	-	-	-	-	-	
A107	TOILET	-	-	-	-	-	-	-	-	-	
A108	CORRIDOR	-	-	-	-	-	-	-	-	-	
A109	PRINCIPAL	-	-	-	-	-	-	-	-	-	
A110	VICE PRINCIPAL	-	-	-	-	-	-	-	-	-	
A111	WORK ROOM	-	-	-	-	-	-	-	-	-	
A112	STAFF LOUNGE	-	-	-	-	-	-	-	-	-	
A113	WORK ROOM	F-01	B-01	W-01, PT-01	PT-01	W-01, PT-01	W-01, PT-01	C-02, C-03	-	4	
A114	COMPUTER CLASSROOM	-	-	-	-	-	-	-	-	-	
A115	GIRLS RR	F-04	B-02	W-02	W-02	W-02	W-02	PT-03, PT-04	-	4	
A116	BOYS RR	F-04	B-02	W-02	W-02	W-02	W-02	PT-03, PT-04	-	4	
A119	CORRIDOR	-	-	-	-	-	-	-	-	-	
A122	STAGE	-	-	-	-	-	-	-	-	-	
A126	KITCHEN	-	-	-	-	-	-	-	-	-	
A128	LIBRARY	-	-	-	-	-	-	-	-	-	
A129	MECH	-	-	-	-	-	-	-	-	-	
A129A	MECH	-	-	-	-	-	-	-	-	-	
A130	WORK ROOM	-	-	-	-	-	-	-	-	-	
A131	ADMIN OFF	-	-	-	-	-	-	-	-	-	
A132	ADMIN OFF	-	-	-	-	-	-	-	-	-	
A133	CONFERENCE ROOM	-	-	-	-	-	-	-	-	-	
A134	SMALL CONF	-	-	-	-	-	-	-	-	-	
A135	ELECTRIC	-	-	-	-	-	-	-	-	-	
A136	FIRE RISER	-	-	-	-	-	-	-	-	-	
BUILDING BLAKE TAHOE											
1	KINDERGARTEN CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2
2	KINDERGARTEN CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2
B3	READING ROOM	-	-	-	-	-	-	-	-	-	
B4	WORK ROOM	-	-	-	-	-	-	-	-	-	NO WORK
B5	TOILET	F-04	B-02	W-02	W-02	W-02	W-02	PT-03, PT-04	-	4	
B6	TOILET	F-04	B-02	W-02	W-02	W-02	W-02	PT-03, PT-04	-	4	
B7	STORAGE	-	-	-	-	-	-	-	-	-	
BUILDING B-BODEGA BAY											
18	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2
19	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2
20	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2
C4	WORK ROOM	-	-	-	-	-	-	-	-	-	NO WORK
BUILDING C-TRINIDAD BAY											
15	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2
16	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2
17	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2
D4	WORK ROOM	-	-	-	-	-	-	-	-	-	NO WORK
BUILDING E-EMERALD BAY											
3	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2
4	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2
5	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2
E4	WORK ROOM	-	-	-	-	-	-	-	-	-	NO WORK
BUILDING F-SAN FRANCISCO											
12	SOL CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2
13	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2
14	RSP CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2
F4	WORK ROOM	-	-	-	-	-	-	-	-	-	NO WORK
F5	GIRLS RR	F-04	B-02	W-02	W-02	W-02	W-02	PT-04	-	4	
F6	BOYS RR	F-04	B-02	W-02	W-02	W-02	W-02	PT-04	-	4	
F7	JANITOR	-	-	-	-	-	-	-	-	-	
BUILDING G-MONTEREY BAY											
9	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2
10	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2
11	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2
G4	WORK ROOM	-	-	-	-	-	-	-	-	-	NO WORK
BUILDING H-SHASTA LAKE											
6	CLASSROOM	F-01, F-02	B-01	PT-01	W-01, PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2, 3
7	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2
8	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2
H4	WORK ROOM	-	-	-	-	-	-	-	-	-	NO WORK
PORTABLE BUILDINGS - DRAKES BAY											
21	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2
22	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2
PORTABLE BUILDINGS - MISSION BAY											
23	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2
24	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2
25	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2
26	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2
27	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2
28	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2
29	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2
I-01	BOYS RR	-	-	-	-	-	-	PT-04	-	2	
I-02	GIRLS RR	-	-	-	-	-	-	PT-04	-	2	
I-03	STAFF RR	-	-	-	-	-	-	PT-04	-	2	
I-04	JANITOR	-	-	-	-	-	-	PT-04	-	2	
PORTABLE BUILDINGS - TULE LAKE											
30	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2
31	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2
32	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2
33	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2
34	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2
35	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2
A	PORTABLE CLASSROOM	-	-	-	-	-	-	-	-	-	
B	PORTABLE CLASSROOM	-	-	-	-	-	-	-	-	-	
C	PORTABLE CLASSROOM	-	-	-	-	-	-	-	-	-	

ROOM FINISH MATERIAL SPECIFICATION

FLOOR	WALL MATERIALS	FINISHES	FINISH SCHEDULE NOTES
F-01: MODULAR CARPET TILE Manufacturer: TANDUS Product: DYNEK SD 46297/80008 Color: 7507 MINERAL SPRING Contact: https://www.tandus-centiva.com/800-248-2878	W-01: 5/8" Gypsum Board W/ Texture to Match (E) W-02: (E) Ceramic Tile W/ (N) Ceramic Tile over Gypsum Board Where Indicated on Interior Elevations	PAINT PT-01: Paint - Walls & Ceilings, Typical UNO Manufacturer: PPG Color: TBD PT-02: Paint - Walls & Ceilings, Restrooms Manufacturer: PPG Color: TBD PT-03: Paint - Interior Doors & Trim Manufacturer: PPG Color: TBD PT-04: Paint - Exterior Doors and Trim Manufacturer: PPG Color: TBD	1. FLOORING FINISHES NOTED ARE INCLUDED IN ADD ALTERNATE #1. IF THIS ALTERNATE IS NOT ACCEPTED, OMIT THESE FINISHES. 2. WALL, CEILING AND DOOR PAINT FINISHES NOTED ARE INCLUDED IN ADD ALTERNATE #2. IF THIS ALTERNATE IS NOT ACCEPTED, OMIT THESE FINISHES. 3. WALL MATERIALS AND FINISHES AT EAST WALL ARE INCLUDED IN BASE BID. 4. FINISHES IN THIS ROOM ARE INCLUDED IN BASE BID.
F-02: MODULAR CARPET TILE Manufacturer: TANDUS Product: TRADITIONAL WALL BASE - TOP SET WITH TOE Color: 02578-19103 WINTER GREY Contact: https://www.tandus-centiva.com/800-248-2878			
F-04: (E) CERAMIC TILE FLOORING TO REMAIN, DEEP CLEAN			
F-05: RUBBER RESILIENT FLOORING			
BASE	CEILING MATERIALS	CASEWORK / COUNTERTOPS	
B-01: RESILIENT BASE Manufacturer: JOHNSONITE Style: TRADITIONAL WALL BASE - TOP SET WITH TOE Height: 4" Color: 63 BURNT UMBER	C-01: (E) Gypsum Board C-02: (E) Lay-in Acoustic Panel Ceiling C-03: Lay-in Acoustic Panel in Suspended Metal Grid Standard Acoustic Panels Manufacturer: Armstrong Style: Ultima Square Lay-in Size: 24" x 48" x 3/4"	PL-01: Plastic Laminate - Casework Manufacturer: Wilsonart Color: tbd Finish: tbd PL-02: Plastic Laminate - Countertops Manufacturer: Wilsonart Color: 4530K-18, SATIN STAINLESS Finish: LINEARITY FINISH WITH AEON	
B-02: (E) BASE TO REMAIN			

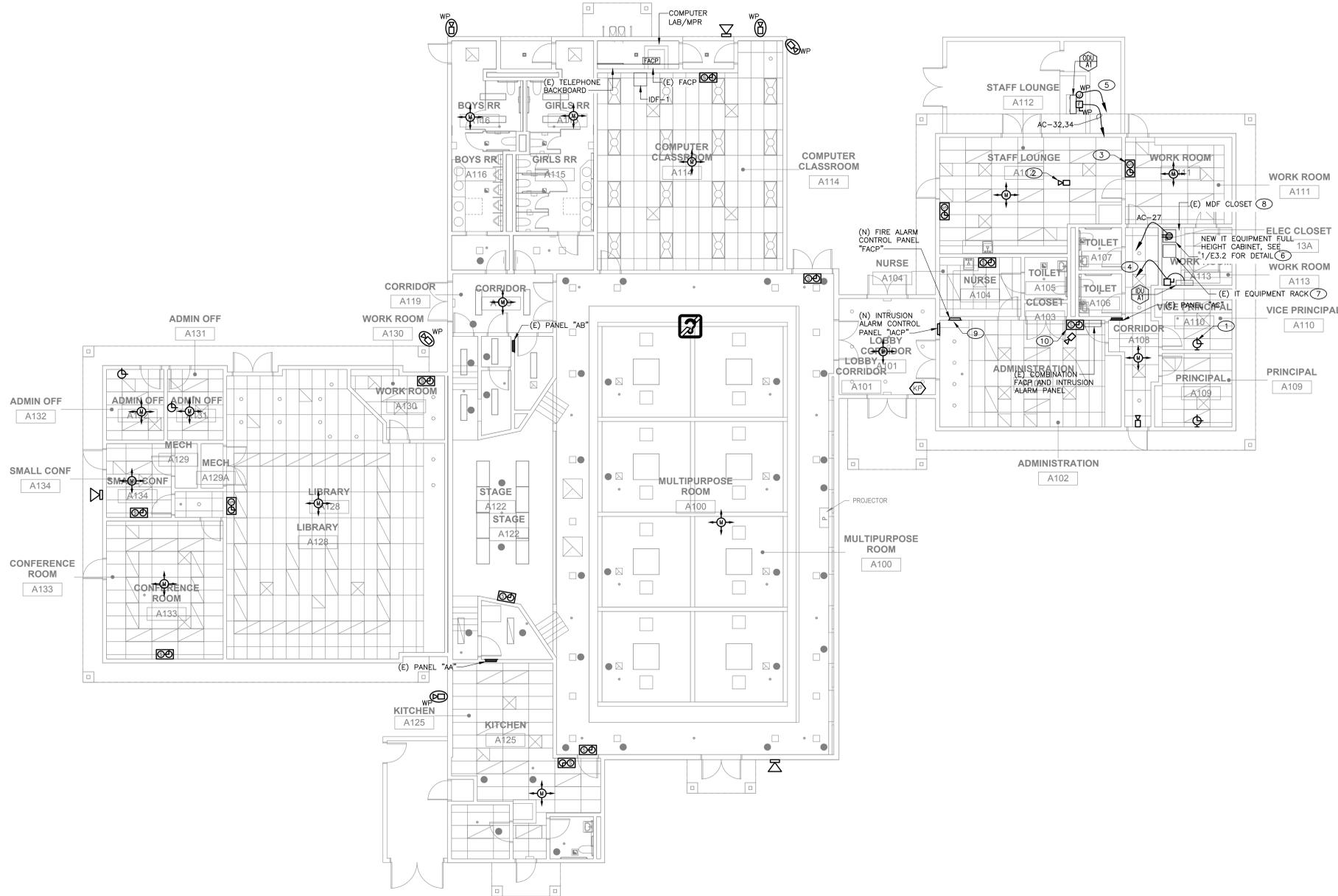
DOOR SCHEDULE										
No.	WIDTH	HEIGHT	THK	MAT	TYPE	FRAME		HARDWARE		COMMENTS
						MAT	TYPE	GROUP	PANIC HARDWARE	
BUILDING A										
A100A	6'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	9	Yes	1,4
A100B	6'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	9	Yes	1,4
A101A	6'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	9	Yes	1,4
A101B	6'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	9	Yes	1,4
A106A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	11	No	1
A111A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	11	No	1
A112A	6'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	12	No	1
A112B	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1	No	1
A114A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1	No	1
A115	6'-0"	7'-0"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	14	Yes	1,4
A115A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	2	No	1
A116A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	2C	No	1,2
A117	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1	No	1
A119A	6'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	9	Yes	1,4
A120	6'-0"	7'-0"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	14	Yes	1,4
A125A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	11	No	1
A126A	6'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING			

SHEET GENERAL NOTES

- ALL DEVICES SHOWN ON SHEET ARE NEW UNLESS OTHERWISE NOTED. MAKE FINAL CONNECTION AND OPERATIONAL.
- DISCONNECT AND REMOVE ALL EXISTING INTRUSION ALARM DEVICES AND RETURN TO SCHOOL DISTRICT.
- DISCONNECT AND REMOVE ALL EXISTING CLOCK AND SPEAKER AND RETURN TO SCHOOL DISTRICT.
- (E) COMBINATION FIRE ALARM AND BURGLAR ALARM SYSTEM SHALL REMAIN IN OPERATION WHILE NEW FIRE ALARM PANEL AND BURGLAR ALARM PANEL ARE INSTALLED.
- REMOVE ALL EXISTING CABLES FROM CONDUITS NOT CONNECTED OR NOT USED FOR NEW LV SYSTEM.
- (E) DIGITAL SIGN TO REMAIN IN OPERATION.
- SEE ARCHITECTURAL DETAILS FOR MODIFICATION TO (E) MILLWORK CABINET FOR VENTILATION OF IDF EQUIPMENT. (E) DUPLEX RECEPTACLE IN CABINET SPACE TO REMAIN.
- SEE FIRE ALARM DRAWINGS FOR ANY REFERENCE TO FIRE ALARM EQUIPMENT SHOWN ON THIS SHEET.
- RE-USE EXISTING LOWER HALF OF IDF CABINET FOR LV SYSTEMS. EXISTING DUPLEX RECEPTACLES AND POWER CIRCUITS TO REMAIN.
- FINAL LOCATION FOR NEW "FACP" AND "ICP" SHALL BE COORDINATED WITH SCHOOL DISTRICT PRIOR TO ROUGH-IN.

KEY NOTES

- DISCONNECT AND REMOVE (E) CLOCK AND REPLACE WITH (N) IP CLOCK, TYPICAL.
- DISCONNECT AND REMOVE (E) SECURITY CAMERA, REPLACE WITH NEW IP SECURITY CAMERA, TYPICAL.
- DISCONNECT AND REMOVE (E) CLOCK/SPEAKER, REPLACE WITH NEW IP CLOCK AND SPEAKER, TYPICAL.
- INSTALL POWER CONNECTION BACK TO ODU-A1.
- HOMERUN TO IDU-A1 FOR CONTROLS.
- COORDINATE NEW CABINET LOCATION WITH (E) CONDUIT STUBS AT CEILING. (E) RECEPTACLE AT BACK WALL TO REMAIN. SHIFT (E) IT EQUIPMENT RACK TO CLEAR (N) IT EQUIPMENT CABINET.
- INSTALL (E) IT EQUIPMENT IN NEW CABINET FOR SECURITY.
- DISCONNECT AND REMOVE (E) LIGHT FIXTURE.
- DISCONNECT AND REMOVE (E) CLOCK/SPEAKER. MAKE WALL SPACE FOR NEW "FACP".
- NEW LOCATION FOR NEW CLOCK/SPEAKER.



1 TECHNOLOGY FLOOR PLAN- BLDG. A
1/8" = 1'-0"

dsd

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121265 INC.
REVIEWED FOR:
SS FLS ACS
DATE: 05/24/2023

ARCHITECT
AC MARTIN
3039 DOUGLAS BLVD. SUITE 290
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STAMP

KAMI S. ZELDIN
No. E 10762
Exp. 9/30/24
ELECTRICAL
STATE OF CALIFORNIA

CONSULTANT

MEP & FS / Sustainability / CxA
1299 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpeengineers.com
Job #: 18-2150

project number CA5602
project director
project designer
project architect

revisions		
no.	date	revision

project status
DSA SUBMITTAL
4-25-2023

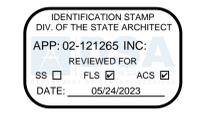
client / project

**OAK HILL ES
HARDSHIP
MODERNIZATION**
CJUSD
3909 NORTH LOOP BLVD
ANTELOPE, CA 95843

sheet name
**TECHNOLOGY
FLOOR PLAN -
BLDG. A**

sheet number
T2.1

plot date 3/22/2023 3:38:04 PM



project number CA5602 project director project designer project architect

Table with 3 columns: no., date, revision. Multiple empty rows for revisions.

project status DSA SUBMITTAL 4-25-2023

client / project

OAK HILL ES HARSHIP MODERNIZATION CJUSD 3909 NORTH LOOP BLVD ANTELOPE, CA 95843

sheet name FIRE ALARM BATTERY CALCULATIONS

sheet number FA3.4

PANEL P1 (SIGNAL-EVLS (SK)) BATTERY CALCULATION. Table with columns: PANEL COMPONENTS, QTY, PART NO., DESCRIPTION, STANDBY CURRENT (AMPS), SECONDARY ALARM CURRENT (AMPS), TOTAL. Includes sub-tables for P141, P142, P143, P144, P146, P148, P149, P150, P151, P152, P153, P154, P155, P156, P157, P158, P159, P160, P161, P162, P163, P164, P165, P166, P167, P168, P169, P170, P171, P172, P173, P174, P175, P176, P177, P178, P179, P180, P181, P182, P183, P184, P185, P186, P187, P188, P189, P190, P191, P192, P193, P194, P195, P196, P197, P198, P199, P200.

PANEL P2 (SK-P216) BATTERY CALCULATION. Table with columns: PANEL COMPONENTS, QTY, PART NO., DESCRIPTION, STANDBY CURRENT (AMPS), SECONDARY ALARM CURRENT (AMPS), TOTAL. Includes sub-tables for P241, P242, P243, P244, P245, P246, P247, P248, P249, P250, P251, P252, P253, P254, P255, P256, P257, P258, P259, P260, P261, P262, P263, P264, P265, P266, P267, P268, P269, P270, P271, P272, P273, P274, P275, P276, P277, P278, P279, P280, P281, P282, P283, P284, P285, P286, P287, P288, P289, P290, P291, P292, P293, P294, P295, P296, P297, P298, P299, P300.

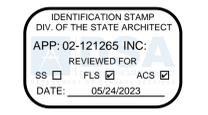
PANEL P3 (SK-P316) BATTERY CALCULATION. Table with columns: PANEL COMPONENTS, QTY, PART NO., DESCRIPTION, STANDBY CURRENT (AMPS), SECONDARY ALARM CURRENT (AMPS), TOTAL. Includes sub-tables for P341, P342, P343, P344, P345, P346, P347, P348, P349, P350, P351, P352, P353, P354, P355, P356, P357, P358, P359, P360, P361, P362, P363, P364, P365, P366, P367, P368, P369, P370, P371, P372, P373, P374, P375, P376, P377, P378, P379, P380, P381, P382, P383, P384, P385, P386, P387, P388, P389, P390, P391, P392, P393, P394, P395, P396, P397, P398, P399, P400.

P1 S1 SPEAKER SCHEDULE. Table with columns: Device Label, Part No., Description, Device Watts, Watta To Amps Conversion, Remaining Watts, Dist. From Previous (ft), Resistance From Previous (Ohm), Voltage Drop From Previous, Voltage At Device, Total Voltage Drop, Voltage Drop Percent, dB Loss From Previous, Total dB Loss. Includes calculation methods for voltage drop and dB loss.

CIRCUIT SETTINGS and TOTALS table. Includes columns for Starting Calculation Voltage, Max. Operational Voltage, Max. Circuit Watts, Wire Resistance (Ohm/ft), Total Circuit Length (ft), Total Circuit Resistance (Ohm), Max. dB Loss, End Of Line Voltage, Voltage Drop Percent, Total Circuit Watts, Spare Watts Percent, Total dB Loss.

P1 S2 SPEAKER SCHEDULE. Table with columns: Device Label, Part No., Description, Device Watts, Watta To Amps Conversion, Remaining Watts, Dist. From Previous (ft), Resistance From Previous (Ohm), Voltage Drop From Previous, Voltage At Device, Total Voltage Drop, Voltage Drop Percent, dB Loss From Previous, Total dB Loss. Includes calculation methods for voltage drop and dB loss.

CIRCUIT SETTINGS and TOTALS table. Includes columns for Starting Calculation Voltage, Max. Operational Voltage, Max. Circuit Watts, Wire Resistance (Ohm/ft), Total Circuit Length (ft), Total Circuit Resistance (Ohm), Max. dB Loss, End Of Line Voltage, Voltage Drop Percent, Total Circuit Watts, Spare Watts Percent, Total dB Loss.



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consultant: **LP CONSULTING ENGINEERS** www.lpengineers.com Job #: 18-2150

project number: CA5602
project director:
project designer:
project architect:

Table with columns: no., date, revision. Multiple empty rows for revisions.

DSAs SUBMITTAL 4-25-2023

client / project

**OAK HILL ES
HARDSHIP
MODERNIZATION**
CJUSD
3909 NORTH LOOP BLVD
ANTELOPE, CA 95843

sheet name: **FIRE ALARM BATTERY CALCULATIONS**

sheet number

FA3.5

Table P1 N1 LUMP SUM REPORT. Includes circuit settings (Starting Calculation Voltage: 20.4, Max. Voltage Drop: 1.96), wire resistance, and device current details for ELSTW, ETR0-24MCC-FW, and Speaker/Shield.

Table P1 N2 LUMP SUM REPORT. Includes circuit settings (Starting Calculation Voltage: 20.4, Max. Voltage Drop: 1.65), wire resistance, and device current details for ELSTW, ETR0-24MCC-FW, and Speaker/Shield.

Table P1 N3 LUMP SUM REPORT. Includes circuit settings (Starting Calculation Voltage: 20.4, Max. Voltage Drop: 1.5), wire resistance, and device current details for ELSTW, ETR0-24MCC-FW, and Speaker/Shield.

Table P1 N4 LUMP SUM REPORT. Includes circuit settings (Starting Calculation Voltage: 20.4, Max. Voltage Drop: 1.88), wire resistance, and device current details for ELSTW, ETR0-24MCC-FW, and Speaker/Shield.

Table P1 N5 LUMP SUM REPORT. Includes circuit settings (Starting Calculation Voltage: 20.4, Max. Voltage Drop: 1.57), wire resistance, and device current details for ELSTW, ETR0-24MCC-FW, and Speaker/Shield.

Table P1 N6 LUMP SUM REPORT. Includes circuit settings (Starting Calculation Voltage: 20.4, Max. Voltage Drop: 1.72), wire resistance, and device current details for ELSTW, ETR0-24MCC-FW, and Speaker/Shield.

Table P1 N7 LUMP SUM REPORT. Includes circuit settings (Starting Calculation Voltage: 20.4, Max. Voltage Drop: 1.92), wire resistance, and device current details for ELSTW, ETR0-24MCC-FW, and Speaker/Shield.

Table P1 N8 LUMP SUM REPORT. Includes circuit settings (Starting Calculation Voltage: 20.4, Max. Voltage Drop: 1.81), wire resistance, and device current details for ELSTW, ETR0-24MCC-FW, and Speaker/Shield.

Table P2 N1 LUMP SUM REPORT. Includes circuit settings (Starting Calculation Voltage: 20.4, Max. Voltage Drop: 1.62), wire resistance, and device current details for ELSTW, ETR0-24MCC-FW, and Speaker/Shield.

Table P2 N2 LUMP SUM REPORT. Includes circuit settings (Starting Calculation Voltage: 20.4, Max. Voltage Drop: 1.54), wire resistance, and device current details for ELSTW, ETR0-24MCC-FW, and Speaker/Shield.

Table P2 N3 LUMP SUM REPORT. Includes circuit settings (Starting Calculation Voltage: 20.4, Max. Voltage Drop: 2.04), wire resistance, and device current details for ELSTW, ETR0-24MCC-FW, and Speaker/Shield.

Table P2 N4 LUMP SUM REPORT. Includes circuit settings (Starting Calculation Voltage: 20.4, Max. Voltage Drop: 1.45), wire resistance, and device current details for ELSTW, ETR0-24MCC-FW, and Speaker/Shield.

Table P2 N5 LUMP SUM REPORT. Includes circuit settings (Starting Calculation Voltage: 20.4, Max. Voltage Drop: 2.83), wire resistance, and device current details for ELSTW, ETR0-24MCC-FW, and Speaker/Shield.

Table P2 N6 LUMP SUM REPORT. Includes circuit settings (Starting Calculation Voltage: 20.4, Max. Voltage Drop: 1.88), wire resistance, and device current details for ELSTW, ETR0-24MCC-FW, and Speaker/Shield.

Table P2 N7 LUMP SUM REPORT. Includes circuit settings (Starting Calculation Voltage: 20.4, Max. Voltage Drop: 0.92), wire resistance, and device current details for ELSTW, ETR0-24MCC-FW, and Speaker/Shield.

Table P2 N8 LUMP SUM REPORT. Includes circuit settings (Starting Calculation Voltage: 20.4, Max. Voltage Drop: 0.9), wire resistance, and device current details for ELSTW, ETR0-24MCC-FW, and Speaker/Shield.